

# **RENEWABLE CAPACITY STATISTICS 2021**

## **STATISTIQUES DE CAPACITÉ RENOUVELABLE 2021**

## **ESTADÍSTICAS DE CAPACIDAD RENOVABLE 2021**



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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](http://www.irena.org)

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This report is available at: [www.irena.org/Publications](http://www.irena.org/Publications). Data can be downloaded from: <https://www.irena.org/Statistics/Download-Data>.

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# FOREWORD

We have entered the decade of renewables.

Global renewable energy capacity additions in 2020 reflect unprecedented momentum for the energy transition. Despite the COVID-19 induced economic slowdown, the world added more than 260 gigawatts (GW) of renewables last year, exceeding expansion in 2019 by close to 50 per cent.

Furthermore, around 80 per cent of all new electricity capacity was renewable, showing that it is increasingly the preferred source of new power generation globally. Solar and wind in particular have shown remarkable growth, with 127 GW and 111 GW of new installations last year, respectively. Together, they now make up more than 50 per cent of total installed renewables capacity.

This latest edition of Renewable Capacity Statistics comes as we grapple with the most effective way to rebuild our economies while pursuing the medium and long-term goals of the SDGs and the Paris Agreement. Energy is the cornerstone of this future, and while the direction of travel is clear a much faster energy transition is required. As outlined in the World Energy Transitions Outlook preview, renewable energy deployment levels should accelerate to align the energy system with a 1.5° Paris compliant future.

The case for an accelerated transition is increasingly attractive. Costs are falling, clean tech markets are growing and never before have the benefits of the energy transition been so clear. Amid the challenges and uncertainty of 2020, these numbers tell a remarkable story of resilience and hope for a better, more equitable, clean and just future.

In this critical decade of action, the international community must look to the momentum reflected in this report as a source of inspiration to go further.



**Francesco La Camera**

*Director-General,*  
International Renewable  
Energy Agency



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## NOTES TO THE TABLES

The renewable power capacity data shown in these tables represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, the data reflects the capacity installed and connected at the end of the calendar year. 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](http://www.irena.org/statistics).

## NOTES À PROPOS DES TABLEAUX

Les données sur les capacités électriques renouvelables présentées dans ces tableaux représentent la capacité maximale nette de génération des centrales électriques et autres installations utilisant des sources d'énergie renouvelables pour produire de l'électricité. Pour la plupart des pays et technologies, les données reflètent la capacité installée et connectée à la fin de l'année civile. 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 viennent de nombreuses sources incluant : le questionnaire IRENA ; les statistiques officielles ; des rapports d'associations de l'industrie ; et d'autres rapports et articles de presse. Les valeurs suivies de la lettre "o" ont été obtenues à partir de sources officielles (par exemple instituts statistiques nationaux, agences gouvernementales, régulateurs, compagnies d'électricité). La lettre "u" suit les valeurs venant de sources non officielles comme des rapports d'associations de l'industrie ou des articles de journaux. La lettre "e" suit les valeurs qui ont été estimées par l'IRENA à partir de sources diverses. Toutes les données venant du questionnaire IRENA sont présentées sans indication.

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

## NOTAS A LAS TABLAS

Los datos de capacidad de generación eléctrica con energías renovables que se muestran en estas tablas representan la capacidad máxima de generación neta de las centrales eléctricas y otras instalaciones que utilizan fuentes de energías renovables para producir electricidad. Para la mayoría de los países y las tecnologías, los datos reflejan la capacidad instalada y conectada al final del año natural. Los datos se presentan en megavatios (MW) redondeados al megavatio entero más cercano, con cifras entre cero y 0.5MW 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](http://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/Étiquette/Rótulo	English	Français	Español
<b>WORLD</b>	<b>WORLD</b>	<b>MONDE</b>	<b>MUNDO</b>
<b>AFRICA</b>	<b>AFRICA</b>	<b>AFRIQUE</b>	<b>ÁFRICA</b>
Algeria	Algeria	Algérie	Argelia
Angola	Angola	Angola	Angola
Benin	Benin	Bénin	Benín
Botswana	Botswana	Botswana	Botsuana
Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso
Burundi	Burundi	Burundi	Burundi
Cabo Verde	Cabo Verde	Cabo Verde	Cabo Verde
Cameroon	Cameroon	Cameroun	Camerún
Cent Afr Rep	Central African Republic	République centrafricaine	República Centroafricana
Chad	Chad	Tchad	Chad
Comoros	Comoros	Comores	Comoras
Congo DR	Democratic Republic of the Congo	République démocratique du Congo	República Democrática del Congo
Congo Rep	Congo	Congo	República del Congo
Cote d'Ivoire	Côte d'Ivoire	Côte d'Ivoire	Côte d'Ivoire
Djibouti	Djibouti	Djibouti	Djibouti
Egypt	Egypt	Egypte	Egipto
Eq Guinea	Equatorial Guinea	Guinée équatoriale	Guinea Ecuatorial
Eritrea	Eritrea	Erythrée	Eritrea
Eswatini	Eswatini	Eswatini	Eswatini
Ethiopia	Ethiopia	Ethiopie	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/Étiquette/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
<b>ASIA</b>	<b>ASIA</b>	<b>ASIE</b>	<b>ASIA</b>
Afghanistan	Afghanistan	Afghanistan	Afganistán
Bangladesh	Bangladesh	Bangladesh	Bangladesh
Bhutan	Bhutan	Bhoutan	Bután
Brunei Darism	Brunei Darussalam	Brunei Darussalam	Brunei Darussalam
Cambodia	Cambodia	Cambodge	Camboya
China	China	Chine	China
China HK SAR	China, Hong Kong Special Administrative Region	Chine, Hong Kong Région Administrative Spéciale	China, Hong Kong, Región Administrativa Especial
China Mac SAR	China, Macao Special Administrative Region	Chine, Macao Région Administrative Spéciale	China, Macao, Región Administrativa Especial
Chinese Taipei	Chinese Taipei	Taipei chinois	China Taipéi
India	India	Inde	India
Indonesia	Indonesia	Indonésie	Indonesia
Japan	Japan	Japon	Japón
Kazakhstan	Kazakhstan	Kazakhstan	Kazajstán
Korea DPR	Democratic People's Republic of Korea	République démocratique populaire de Corée	República Popular Democrática de Corea
Korea Rep	Republic of Korea	République de Corée	República de Corea
Kyrgyzstan	Kyrgyzstan	Kirghizistan	Kirguistán
Lao PDR	Lao People's Democratic Republic	République démocratique populaire Lao	República Democrática Popular de Lao
Malaysia	Malaysia	Malaisie	Malasia
Maldives	Maldives	Maldives	Maldivas
Mongolia	Mongolia	Mongolie	Mongolia
Myanmar	Myanmar	Myanmar	Myanmar
Nepal	Nepal	Népal	Nepal
Pakistan	Pakistan	Pakistan	Pakistán
Philippines	Philippines	Philippines	Filipinas
Singapore	Singapore	Singapour	Singapur
Sri Lanka	Sri Lanka	Sri Lanka	Sri Lanka
Tajikistan	Tajikistan	Tadjikistan	Tayikistán
Thailand	Thailand	Thaïlande	Tailandia
Timor Leste	Timor-Leste	Timor-Leste	Timor-Leste
Turkmenistan	Turkmenistan	Turkménistan	Turkmenistán
Uzbekistan	Uzbekistan	Ouzbékistan	Uzbekistán
Viet Nam	Viet Nam	Viet Nam	Viet Nam
<b>C AMERICA + CARIB</b>	<b>CENTRAL AMERICA AND THE CARIBBEAN</b>	<b>AMÉRIQUE CENTRALE ET CARAÏBES</b>	<b>CENTROAMÉRICA Y EL CARIBE</b>
Anguilla	Anguilla	Anguilla	Anguila
Antigua Barb	Antigua and Barbuda	Antigua-et-Barbuda	Antigua y Barbuda
Aruba	Aruba	Aruba	Aruba
Bahamas	Bahamas	Bahamas	Bahamas
Barbados	Barbados	Barbade	Barbados
Belize	Belize	Belize	Belice
BES Islands	Bonaire, Sint Eustatius and Saba	Bonaire, Saint-Eustache et Saba	Bonaire, San Eustaquio y Saba
Br Virgin Is	British Virgin Islands	Îles Vierges britanniques	Islas Vírgenes Británicas
Cayman Is	Cayman Islands	Îles Caïmans	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/Étiquette/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
Turkey	Turkey	Turquie	Turquía

#### 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/Étiquette/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
<b>MIDDLE EAST</b>	<b>MIDDLE EAST</b>	<b>MOYEN-ORIENT</b>	<b>MEDIO ESTE</b>
Bahrain	Bahrain	Bahreïn	Bahréin
Iran IR	Iran (Islamic Republic of)	République islamique d'Iran	Irán (República Islámica del)
Iraq	Iraq	Iraq	Iraq
Israel	Israel	Israël	Israel
Jordan	Jordan	Jordanie	Jordania
Kuwait	Kuwait	Koweït	Kuwait
Lebanon	Lebanon	Liban	Líbano
Oman	Oman	Oman	Omán
Qatar	Qatar	Qatar	Qatar
Saudi Arabia	Saudi Arabia	Arabie saoudite	Arabia Saudita
Palestine	State of Palestine	l'État de Palestine	Estado de Palestina
Syrian AR	Syrian Arab Republic	République arabe syrienne	República Árabe Siria
United Arab Em	United Arab Emirates	Emirats arabes unis	Emiratos Árabes Unidos
Yemen	Yemen	Yémen	Yemen
<b>N AMERICA</b>	<b>NORTH AMERICA</b>	<b>AMÉRIQUE DU NORD</b>	<b>NORTEAMÉRICA</b>
Bermuda	Bermuda	Bermudes	Bermudas
Canada	Canada	Canada	Canadá
Greenland	Greenland	Groenland	Groenlandia
Mexico	Mexico	Mexique	México
St Pierre Mq	Saint Pierre and Miquelon	Saint-Pierre-et-Miquelon	San Pedro y Miquelón
USA	United States of America	Etats-Unis	Estados Unidos de América
<b>OCEANIA</b>	<b>OCEANIA</b>	<b>Océanie</b>	<b>OCEANÍA</b>
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	Fiji	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	Niue	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/Étiquette/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
<b>S AMERICA</b>	<b>SOUTH AMERICA</b>	<b>AMÉRIQUE DU SUD</b>	<b>SUDAMERICA</b>
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

Total capacité

Total capacidad

# Total renewable energy

## Total énergies renouvelables

### Total energías renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	1 329 886	1 442 763	1 564 390	1 694 061	1 847 258	2 010 005	2 180 389	2 358 749	2 538 441	2 799 094
Africa	27 705	28 690	30 886	32 902	35 214	37 856	43 437	48 661	51 125	53 685
Algeria	253	253	253	264	312	482	663	686	686	686
Angola	779	867	948	1 016	1 017	1 749	2 429	3 097	3 431	3 765
Benin	1	1	1	1	2	3	3	3	3	3
Botswana	0	2	2	2	2	3	3	4	6	6
Burkina Faso	38	38	38	39	41	43	80	95	98	98
Burundi	56	56	57	58	58	59	57	57	57	57
Cabo Verde	23	33	33	33	33	33	33	35	35	35
Cameroon	731	731	736	738	740	742	744	746	791	792
Cent Afr Rep	19	19	19	19	19	19	19	19	19	19
Chad	0	0	0	0	0	1	1	1	1	1
Comoros	1	1	1	1	1	1	1	1	1	1
Congo DR	2 514	2 514	2 515	2 516	2 529	2 551	2 566	2 763	2 773	2 782
Congo Rep	74	194	194	194	194	201	214	215	215	215
Cote d Ivoire	606	606	607	608	609	609	887	892	892	892
Djibouti		0	0	0	0	0	0	0	0	0
Egypt	3 452	3 452	3 452	3 452	3 662	3 676	3 797	4 789	5 948	5 980
Eq Guinea	6	126	126	126	126	126	126	127	127	127
Eritrea	1	1	1	9	9	9	11	19	21	23
Eswatini	186	186	186	169	169	169	169	169	169	169
Ethiopia	2 080	2 081	2 224	2 230	2 619	2 649	4 366	4 451	4 451	4 713
Gabon	172	172	332	332	333	333	333	333	333	333
Gambia	2	3	3	3	3	3	3	3	3	3
Ghana	1 187	1 187	1 590	1 593	1 623	1 626	1 631	1 656	1 656	1 663
Guinea	129	129	132	132	382	382	382	382	382	382
Guinea Bissau					0	0	0	1	1	1
Kenya	1 041	1 095	1 107	1 278	1 577	1 613	1 635	2 030	2 191	2 191
Lesotho	73	75	75	75	75	75	75	75	75	75
Liberia	4	4	4	4	4	26	94	95	95	95
Libya	4	5	5	5	5	5	5	5	5	5
Madagascar	131	165	167	170	173	175	177	198	198	201
Malawi	301	302	305	371	375	376	383	402	409	410
Mali	295	301	363	371	372	373	375	375	375	425
Mauritania			22	23	53	69	69	121	122	122
Mauritius	147	149	151	167	178	196	197	236	252	252
Mayotte	12	13	13	13	13	13	15	15	15	15
Morocco	1 596	1 597	1 837	2 143	2 303	2 407	2 535	3 267	3 267	3 447
Mozambique	2 198	2 201	2 205	2 207	2 211	2 214	2 233	2 233	2 273	2 273
Namibia	248	342	345	347	351	383	427	445	497	501
Niger	3	4	5	6	7	8	9	27	27	27
Nigeria	2 119	2 134	2 136	2 138	2 140	2 143	2 143	2 143	2 152	2 153
Reunion	323	345	349	359	380	383	384	386	428	428
Rwanda	56	58	62	77	109	118	127	131	141	141
Sao Tome Prn	2	2	2	2	2	2	3	3	3	3
Senegal	30	31	32	35	36	68	138	180	230	230
Seychelles			6	7	7	8	9	10	10	10
Sierra Leone	54	54	55	90	90	91	99	99	99	99
Somalia		2	2	2	3	7	10	11	11	26
South Africa	997	1 003	1 500	2 710	3 429	4 650	6 548	7 907	8 011	9 639
South Sudan		0	0	0	0	0	0	1	1	1
Sudan	1 692	1 800	1 800	1 800	1 803	1 805	1 965	2 119	2 125	2 125
Tanzania	632	638	641	652	659	665	675	679	679	679
Togo	67	67	67	67	68	68	69	70	70	70
Tunisia	119	241	272	312	334	347	357	370	386	401
Uganda	465	616	746	769	781	783	831	853	1 147	1 154
Zambia	1 935	1 942	2 302	2 302	2 311	2 431	2 441	2 442	2 538	2 541
Zimbabwe	854	854	860	861	878	882	887	1 192	1 192	1 198
Asia	433 520	478 560	551 893	628 642	717 235	809 264	915 117	1 023 688	1 118 705	1 286 313
Afghanistan	245	289	294	299	303	349	355	355	365	364
Bangladesh	267	291	329	356	382	399	423	423	493	540
Bhutan	1 488	1 488	1 488	1 488	1 615	1 615	1 615	1 615	2 335	2 335
Brunei Darstm	1	1	1	1	1	1	1	1	1	1
Cambodia	218	264	715	973	975	979	1 059	1 410	1 479	1 589
China	267 898	302 101	359 516	414 651	479 103	541 006	620 846	695 488	758 869	894 879
Chinese Taipei	3 087	3 280	3 501	3 750	4 015	4 411	4 944	5 939	7 480	9 158
India	58 053	60 460	63 488	71 789	78 477	90 313	105 149	118 053	128 238	134 197
Indonesia	7 147	7 489	8 261	8 417	8 574	9 064	9 459	9 808	10 300	10 554
Japan	37 396	38 794	44 592	52 098	61 951	72 617	78 918	90 579	97 148	101 370
Kazakhstan	2 278	2 582	2 608	2 805	2 893	2 951	3 015	3 369	4 214	4 997
Korea DPR	3 962	4 262	4 289	4 304	4 490	4 733	4 796	4 828	4 832	4 832
Korea Rep	3 322	3 687	4 330	5 716	7 721	8 901	10 535	12 050	15 653	19 589
Kyrgyzstan	3 072	3 072	3 572	3 671	3 677	3 677	3 689	3 673	3 673	3 677
Lao PDR	2 556	2 965	3 010	3 296	4 398	4 857	5 067	5 317	6 144	7 437
Malaysia	3 895	4 241	5 677	6 357	7 551	7 958	7 333	7 540	8 047	8 699
Maldives	2	3	3	6	6	8	11	11	15	17
Mongolia	34	35	85	85	85	97	180	251	276	277
Myanmar	2 542	2 678	2 818	2 992	3 221	3 298	3 353	3 357	3 398	3 394
Nepal	713	718	755	771	827	848	993	1 113	1 233	1 363
Pakistan	7 024	7 141	7 563	7 913	8 124	8 802	9 217	12 196	12 280	12 406
Philippines	4 818	4 849	4 857	5 281	5 625	6 272	6 424	6 593	6 762	6 812
Singapore	133	136	172	209	251	307	327	379	491	549
Sri Lanka	1 471	1 688	1 729	1 837	1 878	1 952	2 049	2 163	2 213	2 352
Tajikistan	4 809	4 811	4 814	5 035	5 033	5 039	5 039	5 153	5 273	5 273

# Total renewable energy

## Total énergies renouvelables

### Total energías renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Thailand	5 061	5 698	6 701	7 406	7 968	9 442	10 243	11 374	11 857	11 991
Timor Leste	0	0	1	1	1	1	1	1	1	1
Turkmenistan	1	1	1	1	1	1	1	1	1	1
Uzbekistan	1 788	1 822	1 823	1 872	1 882	1 883	1 861	1 919	1 912	2 009
Viet Nam	10 241	13 713	14 901	15 263	16 208	17 485	18 214	18 711	23 722	35 649
<b>C America + Carib</b>	<b>8 573</b>	<b>9 454</b>	<b>9 819</b>	<b>10 460</b>	<b>11 783</b>	<b>13 403</b>	<b>14 168</b>	<b>14 897</b>	<b>16 014</b>	<b>16 344</b>
Anguilla		0	0	1	1	2	2	1	2	2
Antigua Barb	0	0	0	0	3	4	4	8	8	8
Aruba	30	31	32	37	38	38	38	38	38	38
Bahamas	0	1	1	1	1	1	1	1	2	2
Barbados	1	2	2	7	9	20	21	22	35	50
Belize	82	83	83	84	86	102	110	110	103	103
BES Islands	11	11	11	11	11	13	16	17	18	18
Br Virgin Is	1	1	1	1	1	1	1	1	1	1
Cayman Is						3	9	10	11	13
Costa Rica	2 042	2 153	2 174	2 245	2 359	2 894	3 010	3 075	3 144	3 124
Cuba	621	594	555	596	629	610	675	758	1 085	1 198
Curacao	9	30	33	38	40	41	58	58	59	59
Dominica	7	7	7	7	7	7	7	5	5	5
Dominican Rep	573	717	723	734	745	872	906	1 053	1 340	1 413
El Salvador	892	950	974	1 012	927	985	1 174	1 289	1 474	1 507
Grenada	0	0	1	1	1	2	2	2	3	3
Guadeloupe	106	138	144	141	148	148	153	157	185	189
Guatemala	1 341	1 515	1 646	1 775	2 178	2 667	2 753	2 863	2 870	2 870
Haiti	57	57	58	58	58	58	59	81	81	81
Honduras	727	735	805	914	1 352	1 459	1 589	1 679	1 742	1 852
Jamaica	95	96	103	105	108	189	217	217	254	254
Martinique	53	65	67	68	71	72	73	113	131	131
Montserrat									0	0
Nicaragua	378	550	556	596	613	661	674	674	731	731
Panama	1 382	1 500	1 548	1 715	2 053	2 164	2 227	2 272	2 296	2 296
Puerto Rico	154	208	281	296	316	361	369	369	370	370
St Barth						0	0	0	0	0
St Kitts Nevis	2	2	3	4	4	4	4	4	4	4
St Lucia	0	0	0	0	1	1	1	4	4	4
St Martin			1	2	3	2	0	0	0	0
St Vincent Gren	6	6	6	6	6	7	7	7	8	8
Trinidad Tobago	3	3	3	3	3	3	3	3	3	3
Turks Caicos					0	0	0	0	1	1
US Virgin Is	0	1	1	5	9	9	5	5	5	5
<b>Eurasia</b>	<b>71 493</b>	<b>76 692</b>	<b>80 878</b>	<b>84 326</b>	<b>88 140</b>	<b>91 219</b>	<b>96 160</b>	<b>100 302</b>	<b>104 006</b>	<b>110 241</b>
Armenia	1 152	1 253	1 292	1 301	1 289	1 316	1 332	1 357	1 389	1 434
Azerbaijan	999	1 024	1 125	1 120	1 154	1 184	1 194	1 277	1 291	1 296
Georgia	2 703	2 710	2 734	2 872	2 877	2 937	3 179	3 288	3 664	3 839
Russian Fed	47 553	49 519	50 177	51 094	51 304	51 337	51 709	52 150	53 074	54 274
Turkey	19 086	22 186	25 551	27 940	31 516	34 446	38 746	42 230	44 587	49 398
<b>Europe</b>	<b>360 883</b>	<b>395 154</b>	<b>419 914</b>	<b>440 774</b>	<b>465 057</b>	<b>488 578</b>	<b>512 890</b>	<b>537 570</b>	<b>575 167</b>	<b>609 499</b>
Albania	1 509	1 629	1 782	1 726	1 799	1 914	2 049	2 107	2 177	2 307
Andorra	51	51	51	51	51	51	51	52	53	54
Austria	16 708	16 656	17 192	17 839	18 473	19 336	19 596	20 376	20 774	21 842
Belarus	35	52	70	75	125	232	371	401	414	430
Belgium	4 198	5 122	5 765	5 993	6 363	6 737	7 427	8 262	9 510	11 277
Bosnia Herzg	1 701	1 702	1 703	1 719	1 725	1 776	1 808	1 886	1 931	1 954
Bulgaria	2 950	4 021	4 076	4 120	4 137	4 143	4 294	4 316	4 322	4 347
Croatia	2 274	2 332	2 475	2 577	2 713	2 793	2 916	2 979	3 068	3 226
Cyprus	153	173	192	221	244	252	278	289	322	371
Czechia	3 681	3 998	4 095	4 170	4 214	4 212	4 272	4 265	4 349	4 342
Denmark	5 124	5 949	6 584	6 750	7 109	7 410	8 194	8 894	9 175	9 677
Estonia	334	441	519	561	594	607	615	609	716	726
Faroe Islands	36	48	48	60	60	60	60	56	53	59
Finland	5 282	5 329	5 632	5 863	6 258	6 862	7 628	7 698	8 006	8 702
France	34 793	37 096	38 693	40 564	42 801	44 845	47 820	50 557	53 420	55 365
Germany	67 421	78 150	83 766	90 325	97 851	104 436	112 514	118 899	125 174	131 739
Greece	5 521	6 570	7 672	8 010	8 138	8 424	8 686	9 020	9 923	10 867
Hungary	890	724	749	1 024	1 077	1 048	1 194	1 601	2 260	2 813
Iceland	2 549	2 543	2 652	2 653	2 658	2 659	2 711	2 862	2 869	2 869
Ireland	1 867	1 999	2 312	2 592	2 760	3 101	3 673	4 041	4 535	4 685
Italy	40 824	46 721	48 857	49 526	50 417	51 195	52 128	53 161	54 373	55 299
Kosovo*	44	44	44	44	44	81	121	121	139	139
Latvia	1 642	1 701	1 761	1 778	1 782	1 778	1 796	1 779	1 826	1 829
Lithuania	351	451	527	545	693	768	787	836	836	922
Luxembourg	139	187	211	225	239	301	318	324	386	451
Malta	8	19	32	58	78	98	116	136	158	189
Moldova Rep	64	64	67	69	69	71	81	106	109	109
Montenegro	659	659	652	653	654	654	727	776	781	782
Netherlands	3 193	3 473	4 169	4 661	5 738	7 200	7 924	9 867	12 520	17 678
North Macedonia	558	599	624	682	716	720	731	740	751	827
Norway	30 632	31 365	32 002	32 252	32 394	32 814	33 251	34 396	35 912	37 212

# Total renewable energy

## Total énergies renouvelables

### Total energías renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Poland	3 019	4 094	5 116	5 638	6 919	7 881	7 982	8 300	9 360	12 220
Portugal	10 548	10 955	11 143	11 573	12 153	13 208	13 541	13 753	14 118	14 274
Romania	7 410	8 354	10 098	11 152	11 212	11 162	11 145	11 169	11 169	11 141
Serbia	2 328	2 363	2 331	2 422	2 439	2 460	2 480	2 694	2 905	2 909
Slovakia	2 301	2 335	2 359	2 380	2 384	2 397	2 385	2 330	2 431	2 435
Slovenia	1 184	1 275	1 369	1 405	1 421	1 411	1 480	1 476	1 500	1 509
Spain	43 920	46 413	47 676	47 711	47 742	47 789	47 937	48 274	54 778	59 108
Sweden	23 469	24 293	24 645	25 528	26 869	27 805	28 179	29 180	31 156	32 883
Switzerland	13 789	14 064	14 409	14 637	15 040	16 259	17 049	17 501	17 920	18 492
UK	12 783	15 902	20 027	24 895	30 800	35 433	40 043	44 028	46 800	47 676
Ukraine	4 945	5 241	5 769	6 048	6 105	6 199	6 530	7 455	12 190	13 765
European Union (28)	302 637	335 449	358 440	378 416	401 958	423 412	445 657	467 253	497 890	528 530
Middle East	12 557	13 217	14 088	15 593	16 895	17 768	18 821	20 345	23 033	24 224
Bahrain	1	1	1	6	6	7	7	7	10	10
Iran IR	8 850	9 858	10 380	10 955	11 452	11 824	12 408	12 679	12 863	12 922
Iraq	2 274	1 865	1 895	1 902	2 311	2 311	2 311	2 490	2 490	2 490
Israel	219	266	453	706	813	934	1 037	1 138	1 500	1 501
Jordan	17	17	17	17	153	524	634	1 119	1 500	1 903
Kuwait	0	0	3	4	6	33	44	55	106	106
Lebanon	282	285	288	292	298	318	303	330	330	330
Oman			1	1	2	2	8	8	59	159
Palestine	0	1	1	3	12	25	35	40	51	56
Qatar	39	39	40	42	42	43	43	43	43	43
Saudi Arabia	3	14	22	24	24	24	37	87	413	413
Syrian AR	857	857	857	1 501	1 579	1 501	1 497	1 499	1 500	1 500
United Arab Em	13	13	128	136	136	142	356	599	1 919	2 540
Yemen	1	1	2	5	60	80	100	250	250	253
N America	242 939	262 768	271 985	285 786	307 701	331 179	348 558	368 956	389 611	421 703
Canada	82 820	83 967	85 906	88 925	95 414	97 176	99 328	100 140	100 997	101 188
Greenland	69	91	91	91	91	91	91	91	91	91
Mexico	13 480	14 770	15 176	16 568	17 296	18 825	19 462	22 128	25 648	28 358
St Pierre Mq	1	1	1	1	1	1	1	1	1	1
USA	146 570	163 940	170 812	180 202	194 900	215 087	229 677	246 596	262 875	292 065
Oceania	20 188	22 199	23 715	25 235	26 436	27 344	28 564	30 996	37 167	44 051
Amer Samoa		2	2	2	2	4	4	5	5	5
Australia	12 888	14 649	16 068	17 370	18 468	19 342	20 496	22 884	28 980	35 690
Cook Is	0	0	1	2	3	4	4	6	7	7
Fiji	147	191	191	191	193	195	209	212	212	212
Fr Polynesia	59	61	65	72	76	79	83	86	87	87
Guam	0	0	1	1	32	35	35	35	35	35
Kiribati	0	0	1	1	2	3	3	3	3	3
Marshall Is	0	0	1	1	1	2	2	2	2	2
Micronesia	1	1	1	1	1	1	1	3	3	3
Nauru	0	0	0	0	0	1	1	1	2	2
New Caledon	119	119	119	120	123	125	142	145	178	199
New Zealand	6 650	6 841	6 930	7 132	7 171	7 183	7 199	7 230	7 265	7 418
Niue	0	0	0	0	0	0	0	0	1	1
Palau	1	1	1	1	1	1	1	2	2	2
Papua N Guin	301	313	314	314	333	333	333	333	333	333
Samoa	13	9	9	13	14	17	27	27	28	28
Solomon Is	1	1	1	2	2	3	4	4	4	4
Tokelau	0	1	1	1	1	1	1	1	1	1
Tonga	0	1	2	2	3	3	6	6	8	8
Tuvalu	0	0	0	0	2	2	2	2	2	2
Vanuatu	7	7	7	8	8	9	10	10	10	10
S America	152 028	156 030	161 211	170 343	178 798	193 395	202 674	213 333	223 614	233 033
Argentina	10 377	10 528	10 590	10 606	10 655	10 670	10 757	11 510	12 690	14 072
Bolivia	590	591	592	628	638	669	796	923	1 057	1 057
Brazil	92 913	96 114	99 830	106 445	112 637	121 395	128 512	136 614	144 554	150 047
Chile	6 698	7 056	7 678	8 329	8 452	9 299	10 289	10 955	11 498	12 794
Colombia	9 918	9 980	10 081	11 154	11 758	11 882	12 071	12 267	12 355	13 549
Ecuador	2 338	2 368	2 388	2 440	2 599	4 640	4 714	5 266	5 277	5 298
Falklands Malv	2	2	2	2	2	2	2	2	2	2
Fr Guiana	157	157	157	157	167	167	167	167	170	179
Guyana	54	54	55	55	55	46	48	51	53	53
Paraguay	8 810	8 810	8 849	8 849	8 849	8 849	8 849	8 849	8 832	8 832
Peru	3 539	3 698	3 841	4 098	4 701	5 730	5 970	6 222	6 608	6 630
South Georgia	0	0	0	0	0	0	0	0	0	0
Suriname	180	181	181	186	188	188	188	189	189	189
Uruguay	1 825	1 834	2 012	2 437	2 883	3 262	3 715	3 721	3 730	3 732
Venezuela	14 626	14 656	14 954	14 955	15 214	16 597	16 597	16 596	16 598	16 598



# Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	1 056 729	1 089 846	1 136 714	1 175 603	1 211 620	1 246 725	1 272 642	1 295 025	1 311 301	1 331 889
Africa	26 967	27 626	28 820	28 911	29 436	31 360	34 616	35 990	36 660	37 269
Algeria	228	228	228	228	228	228	228	228	228	228
Angola	772	857	937	953	953	1 684	2 365	3 033	3 367	3 701
Benin	1	1	1	1	1	1	1	1	1	1
Burkina Faso	32	32	32	32	32	32	32	32	35	35
Burundi	51	51	51	51	51	51	48	48	48	48
Cameroon	729	729	733	733	733	733	732	732	777	777
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	2 514	2 514	2 515	2 515	2 528	2 548	2 559	2 740	2 750	2 760
Congo Rep	74	194	194	194	194	201	214	214	214	214
Cote d Ivoire	604	604	604	604	604	604	879	879	879	879
Egypt	2 800	2 800	2 800	2 800	2 800	2 800	2 800	2 832	2 832	2 832
Eq Guinea	6	126	126	126	126	126	126	126	127	127
Eswatini	62	62	62	62	62	62	62	62	62	62
Ethiopia	1 972	1 972	1 972	1 972	2 159	2 159	3 817	3 817	3 817	4 071
Gabon	170	170	330	330	330	330	330	330	330	330
Ghana	1 180	1 180	1 580	1 580	1 584	1 584	1 584	1 584	1 584	1 584
Guinea	128	128	128	128	368	368	368	368	368	368
Kenya	769	814	822	822	828	829	834	837	837	837
Lesotho	73	75	75	75	75	75	75	75	75	75
Liberia	4	4	4	4	4	26	92	92	92	92
Madagascar	129	162	162	163	164	164	164	164	164	164
Malawi	287	287	287	351	351	352	352	367	374	374
Mali	253	253	315	315	315	315	315	315	315	315
Mauritius	60	60	61	61	61	61	61	61	61	61
Morocco	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770	1 770
Mozambique	2 184	2 186	2 186	2 186	2 187	2 187	2 204	2 204	2 204	2 204
Namibia	240	330	330	330	330	347	347	347	347	351
Nigeria	2 110	2 110	2 110	2 110	2 111	2 111	2 111	2 111	2 111	2 111
Reunion	133	133	134	134	134	133	133	133	133	133
Rwanda	55	57	60	66	94	98	99	99	110	110
Sao Tome Prn	2	2	2	2	2	2	2	2	2	2
Sierra Leone	54	54	54	56	56	56	61	61	61	61
South Africa	2 135	2 135	2 135	2 132	2 147	3 146	3 479	3 479	3 479	3 479
Sudan	1 593	1 593	1 593	1 593	1 593	1 593	1 753	1 907	1 907	1 907
Tanzania	567	571	571	571	576	576	583	583	583	583
Togo	67	67	67	67	67	67	67	67	67	67
Tunisia	62	62	62	62	62	62	62	62	62	62
Uganda	432	582	691	695	695	695	708	728	989	995
Zambia	1 893	1 900	2 260	2 260	2 268	2 388	2 398	2 398	2 399	2 399
Zimbabwe	753	753	758	758	773	777	781	1 081	1 081	1 081
Asia	391 194	414 365	451 289	479 677	500 148	516 193	531 082	543 995	552 138	566 724
Afghanistan	245	273	277	280	284	329	333	333	333	333
Bangladesh	220	220	230	230	230	230	230	230	230	230
Bhutan	1 488	1 488	1 488	1 488	1 614	1 614	1 614	1 614	2 334	2 334
Cambodia	207	225	683	929	930	930	980	1 330	1 330	1 330
China	232 980	249 470	280 440	304 860	319 530	332 070	343 775	352 261	358 040	370 160
Chinese Taipei	4 643	4 683	4 683	4 683	4 691	4 691	4 691	4 694	4 695	4 695
India	42 417	43 035	44 173	45 407	47 103	47 624	49 517	50 060	50 203	50 680
Indonesia	3 953	4 156	5 177	5 242	5 322	5 666	5 703	5 772	5 976	6 210
Japan	48 419	48 934	48 932	49 597	50 035	50 117	50 014	50 031	50 008	50 016
Kazakhstan	2 274	2 574	2 588	2 675	2 678	2 696	2 726	2 756	2 778	2 785
Korea DPR	3 960	4 260	4 283	4 293	4 467	4 701	4 761	4 790	4 790	4 790
Korea Rep	6 418	6 447	6 452	6 467	6 471	6 485	6 489	6 490	6 508	6 506
Kyrgyzstan	3 072	3 072	3 572	3 671	3 677	3 677	3 689	3 673	3 673	3 677
Lao PDR	2 555	2 964	2 970	3 254	4 355	4 813	5 006	5 256	6 083	7 376
Malaysia	3 121	3 449	4 535	4 761	5 742	6 121	6 145	6 165	6 245	6 275
Mongolia	29	29	29	29	29	31	31	31	31	31
Myanmar	2 539	2 673	2 812	2 985	3 198	3 264	3 304	3 304	3 304	3 304
Nepal	704	709	744	759	814	834	939	1 060	1 182	1 302
Pakistan	6 737	6 777	7 088	7 218	7 218	7 248	7 400	9 900	9 900	10 002
Philippines	3 568	3 579	3 579	3 594	3 613	3 623	3 632	3 719	3 761	3 761
Sri Lanka	1 406	1 590	1 622	1 670	1 689	1 728	1 747	1 798	1 815	1 815
Tajikistan	4 809	4 811	4 814	5 035	5 033	5 039	5 039	5 153	5 273	5 273
Thailand	3 560	3 568	3 575	3 608	3 639	3 649	3 649	3 667	3 667	3 667
Timor Leste	0	0	0	0	0	0	0	0	0	0
Turkmenistan	1	1	1	1	1	1	1	1	1	1
Uzbekistan	1 788	1 822	1 822	1 871	1 880	1 880	1 858	1 915	1 908	2 005
Viet Nam	10 080	13 552	14 718	15 069	15 905	17 131	17 809	17 989	18 069	18 165
C America + Carib	5 921	6 261	6 351	6 576	6 829	7 657	7 893	8 027	8 147	8 253
Belize	53	53	53	54	54	54	54	54	55	55
Costa Rica	1 655	1 749	1 762	1 782	1 811	2 256	2 350	2 373	2 343	2 332
Cuba	65	62	63	63	63	66	66	64	72	72
Dominica	7	7	7	7	7	7	7	5	5	5
Dominican Rep	524	613	614	617	617	617	617	617	618	625
El Salvador	486	487	487	488	494	494	574	574	573	574
Guadeloupe	9	9	9	9	9	9	11	11	11	11
Guatemala	902	986	997	1 001	1 087	1 392	1 438	1 502	1 574	1 577
Haiti	56	56	56	56	56	56	56	78	78	78

# Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Honduras	528	536	556	622	635	660	666	696	731	837
Jamaica	23	23	30	30	30	30	30	30	30	30
Nicaragua	105	106	120	120	138	142	142	142	157	157
Panama	1 352	1 469	1 494	1 623	1 725	1 769	1 777	1 777	1 796	1 796
Puerto Rico	150	100	99	99	99	99	99	99	99	99
St Vincent Gren	6	6	6	6	6	6	6	6	6	6
<b>Eurasia</b>	<b>69 466</b>	<b>74 036</b>	<b>77 500</b>	<b>79 736</b>	<b>82 133</b>	<b>83 029</b>	<b>84 105</b>	<b>85 359</b>	<b>86 446</b>	<b>89 094</b>
Armenia	1 148	1 249	1 289	1 298	1 287	1 312	1 327	1 336	1 336	1 336
Azerbaijan	998	1 023	1 084	1 078	1 103	1 105	1 106	1 131	1 145	1 145
Georgia	2 703	2 710	2 734	2 872	2 877	2 916	3 158	3 267	3 643	3 818
Russian Fed	47 479	49 445	50 104	50 845	50 998	51 016	51 241	51 333	51 819	51 811
Turkey	17 137	19 609	22 289	23 643	25 868	26 681	27 273	28 291	28 503	30 984
<b>Europe</b>	<b>207 950</b>	<b>209 347</b>	<b>211 267</b>	<b>211 993</b>	<b>214 537</b>	<b>217 997</b>	<b>219 667</b>	<b>220 689</b>	<b>221 603</b>	<b>222 448</b>
Albania	1 508	1 628	1 781	1 725	1 798	1 913	2 047	2 105	2 162	2 289
Andorra	46	46	46	46	46	46	46	46	46	46
Austria	13 177	13 309	13 383	13 532	13 650	14 116	14 150	14 516	14 597	15 147
Belarus	14	32	32	33	34	74	95	95	95	96
Belgium	1 426	1 427	1 429	1 431	1 422	1 425	1 417	1 418	1 414	1 417
Bosnia Herzg	2 120	2 121	2 122	2 131	2 137	2 180	2 211	2 236	2 239	2 249
Bulgaria	3 108	3 181	3 203	3 219	3 219	3 223	3 372	3 379	3 378	3 378
Croatia	2 129	2 129	2 178	2 180	2 195	2 192	2 193	2 200	2 200	2 200
Czechia	2 197	2 212	2 252	2 252	2 260	2 262	2 265	2 264	2 265	2 261
Denmark	9	9	9	9	7	9	7	7	7	7
Estonia	5	8	8	5	6	6	7	7	6	7
Faroe Islands	32	39	39	39	39	39	39	40	40	40
Finland	3 196	3 196	3 224	3 248	3 249	3 250	3 272	3 287	3 273	3 241
France	25 642	25 657	25 646	25 577	25 552	25 621	25 707	25 727	25 869	25 897
Germany	11 436	11 257	11 239	11 234	11 255	11 207	11 120	11 208	10 733	10 720
Greece	3 224	3 236	3 238	3 389	3 392	3 392	3 392	3 409	3 412	3 412
Hungary	55	56	57	57	57	57	57	57	58	58
Iceland	1 884	1 877	1 984	1 984	1 987	1 987	1 995	2 099	2 104	2 104
Ireland	237	529	529	529	529	529	529	529	529	529
Italy	21 737	21 880	22 009	22 098	22 220	22 298	22 426	22 499	22 541	22 448
Kosovo*	43	43	43	43	43	78	80	80	95	95
Latvia	1 576	1 576	1 587	1 588	1 588	1 564	1 564	1 565	1 587	1 587
Lithuania	876	876	876	877	877	877	877	877	877	877
Luxembourg	1 134	1 134	1 134	1 330	1 330	1 330	1 331	1 330	1 330	1 330
Moldova Rep	64	64	64	64	64	64	64	64	64	64
Montenegro	658	658	651	651	651	651	652	653	658	658
Netherlands	37	37	37	37	37	37	37	37	37	37
North Macedonia	556	595	617	630	658	661	671	674	678	686
Norway	29 969	30 509	31 033	31 240	31 372	31 817	31 912	32 530	32 797	33 003
Poland	2 346	2 351	2 355	2 364	2 370	2 385	2 391	2 392	2 397	2 399
Portugal	5 535	5 712	5 661	5 715	6 168	6 960	7 226	7 236	7 262	7 262
Romania	6 483	6 548	6 610	6 613	6 730	6 734	6 692	6 701	6 686	6 684
Serbia	2 936	2 966	2 931	3 017	3 022	3 030	3 038	3 074	3 074	3 074
Slovakia	2 523	2 522	2 523	2 523	2 522	2 524	2 523	2 528	2 527	2 528
Slovenia	1 253	1 254	1 299	1 296	1 295	1 293	1 347	1 343	1 351	1 351
Spain	18 540	18 550	19 185	19 223	20 053	20 080	20 079	20 080	20 114	20 114
Sweden	16 577	16 414	16 494	15 996	16 329	16 466	16 502	16 431	16 462	16 479
Switzerland	13 769	13 802	13 817	13 743	13 815	14 806	15 353	15 507	15 540	15 571
UK	4 423	4 437	4 453	4 474	4 677	4 733	4 770	4 773	4 773	4 775
Ukraine	5 469	5 470	5 489	5 851	5 883	6 079	6 213	6 243	6 326	6 329
<b>European Union (28)</b>	<b>149 143</b>	<b>149 758</b>	<b>150 879</b>	<b>151 057</b>	<b>153 250</b>	<b>154 832</b>	<b>155 514</b>	<b>155 537</b>	<b>155 948</b>	<b>156 408</b>
<b>Middle East</b>	<b>12 410</b>	<b>13 001</b>	<b>13 521</b>	<b>14 685</b>	<b>16 709</b>	<b>16 931</b>	<b>17 273</b>	<b>17 419</b>	<b>17 502</b>	<b>17 813</b>
Iran IR	8 745	9 745	10 265	10 785	12 318	12 618	12 993	13 139	13 222	13 233
Iraq	2 514	2 105	2 105	2 105	2 514	2 514	2 514	2 514	2 514	2 514
Israel	7	7	7	7	7	7	7	7	7	307
Jordan	12	12	12	12	16	16	16	16	16	16
Lebanon	282	282	282	282	282	282	253	253	253	253
Syrian AR	850	850	850	1 494	1 572	1 494	1 490	1 490	1 490	1 490
<b>N America</b>	<b>188 156</b>	<b>188 361</b>	<b>188 850</b>	<b>190 254</b>	<b>193 974</b>	<b>195 622</b>	<b>196 268</b>	<b>196 584</b>	<b>196 584</b>	<b>196 878</b>
Canada	75 573	75 537	75 537	75 537	79 420	80 259	80 831	81 004	81 053	81 058
Greenland	69	91	91	91	91	91	91	91	91	91
Mexico	11 571	11 626	11 633	12 464	12 223	12 580	12 642	12 642	12 671	12 671
USA	100 943	101 107	101 589	102 162	102 240	102 692	102 703	102 847	102 769	103 058
<b>Oceania</b>	<b>14 014</b>	<b>14 153</b>	<b>14 165</b>	<b>14 165</b>	<b>14 183</b>	<b>14 183</b>	<b>14 188</b>	<b>14 440</b>	<b>14 455</b>	<b>14 458</b>
Australia	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 523	8 528	8 528
Fiji	95	139	138	138	138	138	138	138	138	138
Fr Polynesia	47	47	47	47	47	47	48	48	48	48
Micronesia										
New Caledon	78	78	78	78	78	78	78	78	78	81
New Zealand	5 279	5 368	5 381	5 381	5 381	5 381	5 381	5 381	5 389	5 389
Papua N Guin	230	240	240	240	258	258	258	258	258	258

# Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Samoa	13	9	9	9	9	9	12	13	14	14
Solomon Is	0	0	0	0	0	0	0	0	0	0
Vanuatu	1	1	1	1	1	1	1	1	1	1
S America	140 651	142 697	144 950	149 606	153 672	163 753	167 551	172 523	177 766	178 952
Argentina	11 070	11 110	11 110	11 112	11 182	11 244	11 247	11 292	11 314	11 348
Bolivia	501	501	501	494	495	495	620	666	736	736
Brazil	82 457	84 294	86 019	89 194	91 651	96 930	100 333	104 482	109 143	109 318
Chile	5 947	5 993	6 095	6 446	6 500	6 672	6 685	6 680	6 683	6 934
Colombia	9 718	9 778	9 875	10 920	11 501	11 606	11 731	11 842	11 927	12 611
Ecuador	2 234	2 264	2 264	2 248	2 408	4 447	4 516	5 066	5 076	5 098
Fr Guiana	119	119	119	119	119	119	119	119	119	119
Guyana	2	2	2	2	2	2	2	2	2	2
Paraguay	8 810	8 810	8 810	8 810	8 810	8 810	8 810	8 810	8 810	8 810
Peru	3 451	3 484	3 556	3 662	4 148	5 189	5 249	5 323	5 715	5 735
South Georgia	0	0	0	0	0	0	0	0	0	0
Suriname	180	180	180	180	180	180	180	180	180	180
Uruguay	1 538	1 538	1 538	1 538	1 538	1 538	1 538	1 538	1 538	1 538
Venezuela	14 624	14 624	14 881	14 881	15 138	16 521	16 521	16 521	16 521	16 521

# Renewable hydropower (including mixed plants)

## Hydroélectricité renouvelable (y compris les centrales mixtes)

## Hidroeléctrica renovable (incluidas las plantas mixtas)

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	953 736	984 229	1 029 858	1 067 006	1 099 767	1 129 799	1 152 808	1 174 685	1 190 473	1 210 616
Africa	25 103	25 762	26 956	27 047	27 572	28 497	31 420	32 794	33 464	34 073
Algeria	228	228	228	228	228	228	228 e	228 e	228 e	228 e
Angola	772	857	937	953	953 e	1 684 e	2 365 e	3 033 e	3 367 e	3 701 e
Benin	1	1	1	1	1	1	1	1	1 e	1 e
Burkina Faso	32 o	32 o	32 o	32 o	32 o	32 o	32 o	32 e	35 e	35 e
Burundi	51 o	51 o	51 o	51 o	51 o	51 o	48 e	48 e	48 e	48 e
Cameroon	729 e	729 e	733 o	733 e	733 e	733 e	732 e	732 e	777 e	777 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	2 514 e	2 514 e	2 515 e	2 515 e	2 528 e	2 548 e	2 559 e	2 740 u	2 750 e	2 760 e
Congo Rep	74 e	194 e	194 e	194 e	194 e	201 u	214 u	214 e	214 e	214 e
Cote d Ivoire	604 o	604 o	604 o	604 o	604 o	604 o	879 u	879 e	879 e	879 e
Egypt	2 800 o	2 800 o	2 800 o	2 800 o	2 800 o	2 800 o	2 800	2 832 o	2 832 o	2 832 e
Eq Guinea	6 o	126 o	126 o	126 o	126 o	126 o	126 e	127 e	127 e	127 e
Eswatini	62	62	62	62	62	62 e	62 e	62 e	62 e	62 e
Ethiopia	1 972 e	1 972 e	1 972 e	1 972 e	2 159 e	2 159	3 817	3 817 e	3 817 e	4 071
Gabon	170 e	170 e	330 e	330 e	330 e	330 e	330 e	330 e	330 e	330 e
Ghana	1 180 o	1 180 o	1 580 o	1 580 o	1 584 o	1 584 o	1 584 o	1 584 e	1 584 e	1 584 e
Guinea	128 o	128 o	128 o	128 o	368 o	368 o	368 e	368 e	368 e	368 e
Kenya	769 o	814 o	822 o	822 o	828 o	829 o	834 e	834 e	837 e	837 e
Lesotho	73	75	75	75	75 e	75 e	75 e	75 e	75 e	75 e
Liberia	4 e	4 e	4 e	4 e	4 e	26 e	92 e	92 e	92 e	92 e
Madagascar	129 o	162 o	162 o	163 o	164 o	164 o	164 e	164 e	164 e	164 e
Malawi	287 e	287 e	287 e	351 e	351 e	352 e	352 e	367 e	374 e	374 e
Mali	253 e	253 e	315 e	315 e	315 e	315 e	315 e	315 e	315 e	315 e
Mauritius	60	60	61	61	61	61 o	61 e	61 e	61 e	61 e
Morocco	1 306	1 306	1 306	1 306	1 306	1 306	1 306	1 306	1 306 e	1 306 e
Mozambique	2 184 e	2 186 e	2 186 e	2 186 e	2 187 e	2 187 e	2 204 e	2 204 e	2 204 e	2 204 e
Namibia	240	330	330	330	330	347	347 o	347 o	347	351 u
Nigeria	2 110 o	2 110 o	2 110 o	2 110 o	2 111 o	2 111 o	2 111 o	2 111 o	2 111 e	2 111 e
Reunion	133 o	133 o	134 o	134 o	134 o	133 o	133 o	133 o	133 e	133 e
Rwanda	55 o	57 o	60 o	66 o	94 o	98 o	99 e	99 e	110 e	110 e
Sao Tome Prn	2 o	2 o	2 o	2 o	2 o	2 e	2 e	2 e	2 e	2 e
Sierra Leone	54 e	54 e	54 e	56 e	56 e	56 e	61 e	61 e	61 e	61 e
South Africa	735 e	735 e	735 e	732 e	747 e	747 e	747 e	747 e	747 e	747 e
Sudan	1 593	1 593	1 593	1 593	1 593	1 593	1 753 o	1 907 o	1 907 e	1 907 e
Tanzania	567 e	571 e	571 e	571 e	576 e	576 e	583 e	583 e	583 e	583 e
Togo	67 o	67 o	67 o	67 o	67 o	67 o	67 o	67 o	67 e	67
Tunisia	62 o	62 o	62 o	62 o	62 o	62 o	62 o	62 o	62 o	62 o
Uganda	432 o	582 o	691 o	695 o	695 o	695 o	708 o	728 u	989 e	995 e
Zambia	1 893 o	1 900 o	2 260 o	2 260 o	2 268 o	2 388 o	2 398 o	2 398 e	2 399 e	2 399 e
Zimbabwe	753	753	758	758	773 e	777 e	781 e	1 081 e	1 081 e	1 081 e
Asia	338 779	359 530	395 254	422 459	441 810	454 195	466 414	478 727	486 570	501 126
Afghanistan	245 e	273 e	277 e	280 e	284 e	329 e	333 e	333 e	333 e	333 e
Bangladesh	220 o	220 o	230 o	230 o	230 o	230 o	230 o	230 o	230 o	230 o
Bhutan	1 488 o	1 488 o	1 488 o	1 488 o	1 614 o	1 614 o	1 614 o	1 614 o	2 334 e	2 334 e
Cambodia	207 o	225 o	683 o	929 o	930 o	930 o	980 o	1 330 o	1 330 e	1 330 e
China	214 598	229 138	258 908	282 750	296 500	305 380	314 385	322 271	327 750 o	339 840 u
Chinese Taipei	2 041 o	2 081 o	2 081 o	2 081 o	2 089 o	2 089 o	2 089 o	2 092 o	2 093 o	2 093 o
India	37 631 e	38 250 e	39 388 e	40 621 e	42 317 e	42 838 e	44 732 e	45 274 e	45 418 o	45 895 e
Indonesia	3 953 e	4 156 e	5 177 e	5 242 e	5 322 e	5 666 e	5 703 e	5 772 o	5 976 o	6 210 e
Japan	27 770	27 815	27 813	27 873	28 111	28 193	28 120 e	28 137 e	28 114 o	28 122 o
Kazakhstan	2 274 o	2 574 o	2 588 o	2 675	2 678	2 696	2 726	2 756 u	2 778 e	2 785
Korea DPR	3 960 o	4 260 o	4 283 o	4 293 o	4 467 o	4 701 o	4 761 o	4 790 o	4 790 o	4 790 e
Korea Rep	1 718	1 747	1 752	1 767	1 771	1 785	1 789	1 790 o	1 808 o	1 806 o
Kyrgyzstan	3 072	3 072	3 572	3 671	3 677	3 677	3 689	3 673 o	3 673 e	3 677 o
Lao PDR	2 555 u	2 964 u	2 970 u	3 254 u	4 355 u	4 813 u	5 006 u	5 256 u	6 083 e	7 376 e
Malaysia	3 121 e	3 449 e	4 535 e	4 761 e	5 742 e	6 121 e	6 145 e	6 165 e	6 245 e	6 275 e
Mongolia	29 e	29 e	29 e	29 e	29 e	31 e	31 e	31 o	31 e	31
Myanmar	2 539 e	2 673 e	2 812 e	2 985 e	3 198 e	3 264 e	3 304 e	3 304 e	3 304 e	3 304 e
Nepal	704 o	709 o	744 o	759 o	814 o	834 o	939 o	1 060 o	1 182 o	1 302 e
Pakistan	6 737 e	6 777 e	7 088 e	7 218 e	7 218 e	7 248 e	7 400 e	9 900 e	9 900 e	10 002 e
Philippines	2 832 o	2 843 o	2 843 o	2 858 o	2 877 o	2 887 o	2 896 o	2 983 o	3 025 o	3 025 o
Sri Lanka	1 406 e	1 590 e	1 622 e	1 670 e	1 689 e	1 728 e	1 747 e	1 798 e	1 815 e	1 815 e
Tajikistan	4 809	4 811	4 814	5 035	5 033 o	5 039	5 039	5 153 e	5 273 e	5 273
Thailand	3 000 o	3 008 o	3 015 o	3 048 o	3 079 o	3 089 o	3 089 o	3 107 o	3 107 o	3 107 o
Timor Leste	0 o	0 o	0 o	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Turkmenistan	1	1	1	1	1	1	1	1	1 e	1
Uzbekistan	1 788	1 822	1 822	1 871	1 880	1 880	1 858	1 915 o	1 908	2 005
Viet Nam	10 080 e	13 552 e	14 718 e	15 069 e	15 905 e	17 131 e	17 809 e	17 989 e	18 069 e	18 165 e
C America + Carib	5 921	6 261	6 351	6 576	6 829	7 657	7 893	8 027	8 147	8 253
Belize	53	53	53	54	54	54	54	54 e	55	55
Costa Rica	1 655	1 749	1 762	1 782	1 811	2 256	2 350	2 373 o	2 343 o	2 332 o
Cuba	65	62	63	63	63	66	66	64 o	72 o	72 u
Dominica	7	7	7	7	7	7	7	5 o	5 o	5 e
Dominican Rep	524 o	613 o	614 o	617 o	617 o	617 o	617 o	617 e	618 e	625 o
El Salvador	486 e	487 e	487 e	488 e	494 e	494 e	574 e	574 e	573 o	574 e
Guadeloupe	9	9	9	9	9	9	11	11 e	11 o	11 e
Guatemala	902	986	997	1 001	1 087	1 392 o	1 438 o	1 502 o	1 574 o	1 577 o
Haiti	56 e	56 e	56 e	56 e	56 e	56 e	56 e	78 u	78 e	78 e
Honduras	528	536	556	622	635	660 e	666 e	696 e	731 e	837 e

# Renewable hydropower (including mixed plants)

## Hydroélectricité renouvelable (y compris les centrales mixtes)

### Hidroeléctrica renovable (incluidas las plantas mixtas)

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Jamaica	23	23	30	30	30	30	30	30 e	30 e	30 e
Nicaragua	105	106	120	120	138	142 o	142 o	142 o	157 o	157 o
Panama	1 352	1 469	1 494	1 623	1 725	1 769	1 777 o	1 777	1 796	1 796 e
Puerto Rico	150 o	100	99	99	99	99	99	99 e	99 o	99 e
St Vincent Gren	6	6	6	6	6	6	6	6 e	6 e	6 e
<b>Eurasia</b>	<b>68 250</b>	<b>72 820</b>	<b>76 284</b>	<b>78 520</b>	<b>80 917</b>	<b>81 813</b>	<b>82 889</b>	<b>84 143</b>	<b>85 090</b>	<b>87 738</b>
Armenia	1 148	1 249 o	1 289 o	1 298 o	1 287 o	1 312 o	1 327	1 336 o	1 336 e	1 336 e
Azerbaijan	998	1 023	1 084	1 078	1 103	1 105	1 106 u	1 131 o	1 145	1 145
Georgia	2 703	2 710	2 734	2 872	2 877	2 916	3 158	3 267 o	3 643 o	3 818 u
Russian Fed	46 263	48 229	48 888	49 629	49 782	49 800	50 025	50 117	50 463	50 455
Turkey	17 137	19 609	22 289	23 643	25 868	26 681	27 273 o	28 291	28 503	30 984 o
<b>Europe</b>	<b>181 243</b>	<b>182 508</b>	<b>184 411</b>	<b>184 668</b>	<b>186 205</b>	<b>189 412</b>	<b>191 211</b>	<b>192 371</b>	<b>193 284</b>	<b>194 130</b>
Albania	1 508	1 628	1 781	1 725	1 798	1 913	2 047	2 105	2 162	2 289 u
Andorra	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 e
Austria	13 177	13 309	13 383	13 532	13 650	14 116	14 150	14 516	14 597	15 147 o
Belarus	14	32	32	33	34	74	95	95 o	95 e	96
Belgium	119	120	119	121	112	115	107	108	104	107 u
Bosnia Herzg	1 700 o	1 701 o	1 702 o	1 711 o	1 717 o	1 760 o	1 791	1 816	1 819	1 829 o
Bulgaria	2 244	2 317	2 339	2 355	2 355	2 359	2 508 e	2 515 o	2 514 e	2 514 o
Croatia	2 129	2 129	2 178	2 180	2 195	2 192	2 193	2 200	2 200 o	2 200 o
Czechia	1 050	1 065	1 080	1 080	1 088	1 090	1 093	1 093	1 094	1 090 o
Denmark	9	9	9	9	7	9	7	7	7	7 o
Estonia	5	8	8	5	6	6	7	7 e	6	7 o
Faroe Islands	32 o	39 o	39 o	39 o	39 o	39 o	39 o	40 o	40 o	40 e
Finland	3 196	3 196	3 224	3 248	3 249	3 250	3 272	3 287	3 273	3 241 o
France	23 835	23 849	23 838	23 849	23 824	23 893	23 979	23 999	24 141	24 169 e
Germany	5 625	5 607	5 589	5 580	5 589	5 629	5 627	5 329	5 378	5 365 o
Greece	3 224	3 236	3 238	3 389	3 392	3 392	3 392 e	3 409 o	3 412	3 412 o
Hungary	55	56	57	57	57	57	57 e	57 o	58	58 o
Iceland	1 884	1 877	1 984	1 984	1 987	1 987	1 995	2 099	2 104	2 104 e
Ireland	237	237	237	237	237	237	237 e	237 o	237	237 o
Italy	17 780	17 923	18 052	18 116	18 238	18 316	18 486	18 558 o	18 601	18 508 e
Kosovo*	43	43	43	43	43	78	80	80	95	95 e
Latvia	1 576	1 576	1 587	1 588	1 588	1 564	1 564	1 565	1 587	1 587 o
Lithuania	116	116	116	117	117	117	117 e	117 o	117 o	117 o
Luxembourg	34	34	34	34	34	34	35	34	34 e	34 o
Moldova Rep	64	64	64	64	64	64	64 o	64 o	64 e	64
Montenegro	658	658	651	651	651	651	652	653 u	658 e	658 e
Netherlands	37	37	37	37	37	37	37 e	37 e	37 o	37 o
North Macedonia	556	595	617	630	658	661	671	674	678	686 o
Norway	29 969	30 509	31 033	31 240	31 372	31 817	31 912	32 530	32 797 o	33 003 e
Poland	940	945	949	958	964	972	967	968	974 e	976 e
Portugal	5 535	5 712	5 661	5 715	6 168	6 960	7 226	7 236	7 262 o	7 262 o
Romania	6 391	6 456	6 518	6 521	6 638	6 642	6 600	6 609	6 595	6 593 o
Serbia	2 322	2 352	2 317	2 403	2 408	2 416	2 424	2 429	2 460	2 460 e
Slovakia	1 607	1 606	1 607	1 607	1 606	1 608	1 607	1 612	1 611	1 612 o
Slovenia	1 073	1 074	1 119	1 116	1 115	1 113	1 167	1 163	1 171	1 171 e
Spain	16 075	16 085	16 730	16 768	16 773	16 759	16 758	16 759	16 793	16 793 o
Sweden	16 478	16 315	16 395	15 897	16 230	16 367	16 502 e	16 431	16 462 e	16 479 e
Switzerland	13 313	13 346	13 361	13 287	13 346	14 279	14 826	14 980 o	15 013 o	15 044 o
UK	1 979	1 993	2 009	2 030	2 077	2 133	2 170 e	2 173	2 173 o	2 175 o
Ukraine	4 607	4 608	4 627	4 665	4 697	4 658	4 704	4 734	4 817	4 820
<b>European Union (28)</b>	<b>124 788</b>	<b>125 272</b>	<b>126 375</b>	<b>126 408</b>	<b>127 607</b>	<b>129 229</b>	<b>130 128</b>	<b>130 289</b>	<b>130 700</b>	<b>131 160</b>
<b>Middle East</b>	<b>12 170</b>	<b>12 761</b>	<b>13 281</b>	<b>14 445</b>	<b>15 429</b>	<b>15 651</b>	<b>15 993</b>	<b>16 139</b>	<b>16 222</b>	<b>16 233</b>
Iran IR	8 745	9 745	10 265	10 785	11 278	11 578	11 953 o	12 099 o	12 182 o	12 193 o
Iraq	2 274 e	1 865 e	1 865 e	1 865 e	2 274 e	2 274 e	2 274 e	2 274 e	2 274 e	2 274 e
Israel	7	7	7 e	7 o	7 e	7 e	7 e	7 e	7 e	7 e
Jordan	12 o	12 o	12 o	12 o	16 u	16 u	16 u	16 u	16 u	16 e
Lebanon	282 o	282 o	282 e	282 e	282 e	282 e	253 o	253 e	253 e	253 e
Syrian AR	850 o	850 o	850 o	1 494 o	1 572 o	1 494 o	1 490 o	1 490 o	1 490 e	1 490 e
<b>N America</b>	<b>169 390</b>	<b>169 522</b>	<b>169 990</b>	<b>171 304</b>	<b>174 934</b>	<b>176 421</b>	<b>177 035</b>	<b>177 306</b>	<b>177 258</b>	<b>177 436</b>
Canada	75 396	75 363	75 363	75 363	79 246	80 085	80 657	80 830 e	80 879 u	80 884 o
Greenland	69 o	91 o	91 o	91 o	91 o	91 o	91 o	91 e	91 o	91 e
Mexico	11 571	11 626	11 633	12 464	12 223	12 580	12 642 o	12 642 o	12 671 o	12 671 o
USA	82 354	82 442	82 903	83 386	83 374	83 665	83 644 o	83 743 o	83 617 o	83 790 o
<b>Oceania</b>	<b>13 204</b>	<b>13 343</b>	<b>13 355</b>	<b>13 355</b>	<b>13 373</b>	<b>13 373</b>	<b>13 378</b>	<b>13 630</b>	<b>13 645</b>	<b>13 648</b>
Australia	7 461	7 461	7 461	7 461	7 461	7 461	7 461	7 713 o	7 718 o	7 718 o
Fiji	95 u	139 u	138 u	138 u	138 u	138 u	138 u	138 u	138 e	138 e
Fr Polynesia	47 o	47 o	47 o	47 o	47 o	47 o	48 o	48 o	48 o	48 e
New Caledon	78 o	78 o	78 o	78 o	78 o	78 o	78 o	78 o	78 e	81 o
New Zealand	5 279	5 368	5 381	5 381	5 381	5 381	5 381	5 381 o	5 389 o	5 389 o
Papua N Guin	230 u	240 u	240 u	240 u	258 u	258 u	258 u	258 u	258 e	258 e
Samoa	13 o	9 o	9 o	9 o	9 o	9 o	12 o	13 e	14 u	14 e

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

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Solomon Is	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e
Vanuatu	1 o	1 o	1 o	1 e	1 e	1 e	1 e	1 e	1 e	1 e
S America	139 677	141 723	143 976	148 632	152 698	162 779	166 577	171 549	176 792	177 978
Argentina	10 096 o	10 136 o	10 136 o	10 138 o	10 208 o	10 270 o	10 273 e	10 318 e	10 340 o	10 374 e
Bolivia	501 o	501 o	501 o	494 o	495 o	495 o	620 o	666 e	736 o	736 e
Brazil	82 457 e	84 294 e	86 019 e	89 194 e	91 651 e	96 930 e	100 333 e	104 482 e	109 143 o	109 318 o
Chile	5 947 o	5 993 o	6 095 o	6 446 o	6 500 o	6 672 o	6 685 e	6 680 o	6 683 o	6 934 o
Colombia	9 718	9 778	9 875	10 920	11 501 e	11 606 e	11 731 o	11 842 o	11 927 e	12 611 e
Ecuador	2 234 o	2 264 o	2 264 o	2 248 o	2 408 o	4 447 o	4 516 e	5 066 o	5 076 o	5 098 o
Fr Guiana	119 o	119 o	119 o	119 o	119 o	119 o	119 o	119 o	119 o	119 e
Guyana	2 e	2 e	2 e	2 e	2 o	2 e	2 e	2 e	2 o	2 e
Paraguay	8 810	8 810	8 810	8 810	8 810	8 810	8 810	8 810 o	8 810	8 810 o
Peru	3 451	3 484	3 556	3 662	4 148	5 189	5 249 o	5 323 o	5 715 o	5 735 e
South Georgia	0	0	0	0	0	0	0	0	0	0 e
Suriname	180	180	180	180	180	180	180 e	180 e	180 e	180 e
Uruguay	1 538	1 538	1 538	1 538	1 538	1 538	1 538	1 538 o	1 538 e	1 538 o
Venezuela	14 624 o	14 624 o	14 881 o	14 881 u	15 138 u	16 521 e	16 521 e	16 521 e	16 521 u	16 521 e

# Pure pumped storage Accumulation par pompage Hidroeléctrica de bombeo pura

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	102 993	105 617	106 856	108 597	111 853	116 926	119 833	120 340	120 828	121 273
Africa	1 864	1 864	1 864	1 864	1 864	2 863	3 196	3 196	3 196	3 196
Morocco	464	464	464	464	464	464	464 o	464	464 e	464 e
South Africa	1 400 u	1 400 u	1 400 u	1 400 u	1 400 u	2 399 u	2 732 u	2 732 e	2 732 e	2 732 e
Asia	52 415	54 835	56 035	57 218	58 338	61 998	64 668	65 268	65 568	65 598
China	18 383	20 333	21 533	22 110	23 030	26 690	29 390 e	29 990	30 290	30 320 u
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 o	4 786 o	4 786 o	4 786 o	4 786 e	4 786 o	4 786 e
Japan	20 649	21 119	21 119	21 724	21 924	21 924	21 894	21 894 e	21 894 o	21 894 o
Korea Rep	4 700	4 700	4 700	4 700	4 700	4 700	4 700 o	4 700 o	4 700 o	4 700 o
Mongolia		0	0	0	0	0	0	0	0 e	0
Philippines	736 o	736 o	736 o	736 o	736 o	736 o	736 o	736 o	736 o	736 o
Thailand	560 o	560 o	560 o	560 o	560 o	560 o	560 o	560 o	560 o	560 o
Eurasia	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 356	1 356
Russian Fed	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 216	1 356 e	1 356
Europe	26 708	26 839	26 857	27 326	28 332	28 585	28 457	28 318	28 318	28 318
Belgium	1 307	1 307	1 310	1 310	1 310	1 310	1 310 e	1 310 o	1 310 e	1 310 o
Bosnia Herzg	420 o	420 o	420 o	420 o	420 o	420 o	420 o	420 e	420 o	420 o
Bulgaria	864	864	864	864	864	864	864	864 o	864 e	864 o
Czechia	1 147	1 147	1 172	1 172	1 172	1 172	1 172	1 172	1 172	1 172 o
France	1 808	1 808	1 808	1 728	1 728	1 728	1 728	1 728 o	1 728	1 728 e
Germany	5 811	5 650	5 650	5 654	5 666	5 578	5 493	5 355	5 355	5 355 o
Ireland		292	292	292	292	292	292 e	292 o	292	292 o
Italy	3 957	3 957	3 957	3 982	3 982	3 982	3 940	3 940 o	3 940	3 940 e
Lithuania	760	760	760	760	760	760	760 e	760 o	760 o	760 o
Luxembourg	1 100	1 100	1 100	1 296	1 296	1 296	1 296 e	1 296 e	1 296 e	1 296 o
Poland	1 406	1 406	1 406	1 406	1 406	1 413	1 423	1 423	1 423 e	1 423 e
Romania	92	92	92	92	92	92	92	92	92 e	92 o
Serbia	614	614	614	614	614	614	614	614 o	614 e	614 e
Slovakia	916	916	916	916	916	916	916 e	916	916 e	916 e
Slovenia	180	180	180	180	180	180	180 e	180	180 e	180 e
Spain	2 465	2 465	2 455	2 455	3 280	3 321	3 321	3 321	3 321	3 321 o
Sweden	99	99	99	99	99	99				
Switzerland	456	456	456	456	469	527	527 e	527 o	527 e	527 e
UK	2 444	2 444	2 444	2 444	2 600	2 600	2 600	2 600	2 600 o	2 600 o
Ukraine	862	862	862	1 186	1 186	1 421	1 509 o	1 509 o	1 509 e	1 509
European Union (28)	24 356	24 487	24 505	24 650	25 643	25 603	25 387	25 248	25 248	25 248
Middle East	240	240	240	240	1 280	1 280	1 280	1 280	1 280	1 580
Iran IR					1 040	1 040	1 040	1 040 o	1 040 e	1 040 e
Iraq	240	240	240	240	240	240 e	240 e	240 e	240 e	240 e
Israel										300 u
N America	18 766	18 839	18 860	18 950	19 040	19 201	19 233	19 278	19 326	19 441
Canada	177	174	174	174	174	174 o	174 e	174 e	174 e	174 e
USA	18 589	18 665	18 686	18 776	18 866	19 027	19 059	19 104 o	19 152 o	19 267 o
Oceania	810	810	810	810	810	810	810	810	810	810
Australia	810	810	810	810	810	810	810	810	810 o	810 o
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 o	974 o	974 o

# Marine energy

## Énergie marine

### Energía marina

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	503	509	510	513	513	519	523	527	525	527
Africa			0		0	0	0	0	0	0
Ghana					0 u	0 e	0 e	0 e	0 e	0 e
Reunion			0 u							
Asia	259	259	259	259	259	259	259	259	260	260
China	4	4	4	4	4	4	4	4	4 e	5 u
Korea Rep	255 o	255 o	255 o	255 o	255 o	255 o	255 o	255 o	256 o	256 o
Singapore			0	0	0	0	0 e	0 o	0 e	0 e
Eurasia	2	2	2	2	2	2	2	2	2	2
Russian Fed	2 u	2 u	2 u	2 u	2 u	2 u	2 u	2 o	2 e	2
Europe	221	228	228	231	231	237	240	244	242	243
Denmark	0 u	0 u								
Faroe Islands					0 u					0 o
France	215	216	218	220	218	220	219	218	214	214 e
Italy			0 u	0 u	0 u	0 u	0 e	0 e	0 e	0 u
Netherlands		0 u	u	0 u	2 u	2 e	2 e	2 e	2 u	2 e
Norway	2 u	2 u	0 u	0 u	0 u	0 u	0 e	0 e	0 e	0 e
Portugal		0 u	0 u	1			0	0		
Spain	0 u	0 u	0 u	0 u	0 u	5	5	5	5 e	5 e
Sweden	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e		
UK	4	9	8	9	9	9	13	18	20	22 o
European Union (28)	219	226	228	231	230	236	240	244	242	243
N America	20	20	20	20	20	20	20	20	20	20
Canada	20	20	20	20	20	20	20	20 e	20 e	20 e
USA			0 u	0 e	0 u	0 u	0 o			
Oceania	1	1	1	1	1	1	1	1	1	1
Australia	1	1	1	1	1	1	1 e	1 e	1 o	1 e
New Zealand	0	0							0 o	0 o
S America		0	0	0	0	0	0	0	0	0
Brazil		0	0	0	0	0	0	0 o	0 o	0 o



# Wind energy

## Énergie éolienne

## Energía eólica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	220 019	266 908	299 919	349 300	416 248	466 864	514 374	563 830	622 249	733 276
Africa	992	1 125	1 739	2 398	3 322	3 829	4 581	5 469	5 769	6 491
Algeria				10	10	10	10	10	10	10
Cabo Verde	17	27	27	27	27	27	27	28	28	28
Chad						1	1	1	1	1
Egypt	550	550	550	550	750	750	750	1 125	1 375	1 375
Eritrea	1	1	1	1	1	1	1	1	1	1
Ethiopia	81	81	171	171	324	324	324	324	324	324
Gambia	0	1	1	1	1	1	1	1	1	1
Ghana					0	0	0	0	0	0
Kenya	6	6	6	6	26	26	26	336	336	336
Madagascar	0	0	0	0	0	0	0	0	0	0
Mauritania			4	4	34	34	34	34	34	34
Mauritius	1	1	1	1	1	11	11	11	11	11
Morocco	255	255	495	797	797	897	1 023	1 225	1 225	1 405
Namibia	0	0	0	0	0	0	5	5	5	5
Nigeria	2	2	2	3	3	3	3	3	3	3
Reunion	15	15	15	15	15	17	17	17	17	17
Senegal									50	50
Seychelles			6	6	6	6	6	6	6	6
Somalia		2	2	2	3	3	4	4	4	4
South Africa	10	10	257	569	1 079	1 473	2 094	2 094	2 094	2 636
Tunisia	54	173	200	233	244	244	244	244	244	244
Asia	66 027	82 809	99 542	124 336	161 804	184 185	205 015	229 262	257 520	332 088
Afghanistan		0	0	0	0	0	0	0	0	0
Bangladesh	2	2	2	2	3	3	3	3	3	3
Bhutan					1	1	1	1	1	1
Cambodia	0	0	0	0	0	0	0	0	0	0
China	46 355	61 597	76 731	96 819	131 048	148 517	164 374	184 665	209 582	281 993
Chinese Taipei	523	571	614	637	647	682	692	713	845	854
India	16 179	17 300	18 420	22 465	25 088	28 700	32 848	35 288	37 505	38 559
Indonesia	1	1	1	1	1	1	1	144	154	154
Japan	2 419	2 562	2 646	2 753	2 808	3 247	3 483	3 667	3 786	4 206
Kazakhstan		2	4	53	72	98	112	121	284	486
Korea DPR	0	0	0	0	0	0	1	1	1	1
Korea Rep	425	464	576	612	847	1 067	1 215	1 420	1 512	1 636
Maldives	1	1	1	1	1	1	1	1	1	1
Mongolia	1	1	51	51	51	51	101	156	156	156
Myanmar					0	0	0	0	0	0
Nepal			0	0	0	0	0	0	0	0
Pakistan	6	56	106	206	308	591	789	1 186	1 236	1 236
Philippines	33	33	33	337	427	427	427	427	443	443
Singapore							0	0	0	0
Sri Lanka	44	77	81	121	131	131	131	128	128	252
Thailand	7	112	223	225	234	507	628	1 103	1 507	1 507
Uzbekistan							1	1	1	1
Viet Nam	31	31	53	53	136	160	205	237	375	600
C America + Carib	456	727	822	946	1 302	1 544	1 600	1 709	1 948	1 931
Aruba	30	30	30	30	30	30	30	30	30	30
Barbados						0	0	0	0	0
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
Costa Rica	128	144	144	193	272	365	378	408	411	394
Cuba	12	12	12	12	12	12	12	12	12	12
Curacao	9	30	30	30	30	30	47	47	47	47
Dominica	0	0	0	0	0	0	0	0	0	0
Dominican Rep	33	85	85	85	85	135	135	183	370	370
Grenada	0	0	0	0	0	0	0	0	0	0
Guadeloupe	23	23	23	23	27	26	26	26	43	43
Guatemala					76	76	76	107	107	107
Haiti								0	0	0
Honduras	102	102	152	152	152	175	225	225	241	241
Jamaica	39	39	39	39	39	99	99	99	99	99
Martinique	1	1	1	1	1	1	1	1	15	15
Nicaragua	63	146	147	186	186	186	186	186	186	186
Panama			20	55	253	270	270	270	270	270
Puerto Rico	1	101	125	125	125	125	101	101	102	102
St Kitts Nevis	2	2	2	2	2	2	2	2	2	2
Trinidad Tobago					0	0	0	0	0	0
US Virgin Is			0	0	0	0	0	0	0	0
Eurasia	1 742	2 274	2 775	3 645	4 525	5 801	6 566	7 147	7 783	9 867
Armenia	3	3	3	3	3	3	3	3	3	3
Azerbaijan			3	3	8	16	16	66	66	66
Georgia						21	21	21	21	21
Russian Fed	10	10	10	10	11	11	11	52	102	945
Turkey	1 729	2 261	2 760	3 630	4 503	5 751	6 516	7 005	7 591	8 832

# Wind energy

## Énergie éolienne

## Energía eólica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Europe	94 714	107 191	118 263	130 204	143 033	155 756	170 624	181 963	196 311	207 747
Austria	1 106	1 337	1 675	2 110	2 489	2 730	2 887	3 133	3 224	3 224
Belarus	2	2	2	3	43	68	83	101	109	120
Belgium	1 069	1 370	1 780	1 944	2 176	2 370	2 788	3 268	3 863	4 692
Bosnia Herzg	0	0	0	0	0	0	0	51	87	87
Bulgaria	541	677	683	699	699	699	698	699	703	703
Croatia	130	180	254	339	418	483	576	586	646	788
Cyprus	134	147	147	147	158	158	158	158	158	158
Czechia	213	258	262	278	281	282	308	316	339	339
Denmark	3 952	4 162	4 819	4 886	5 077	5 245	5 489	6 115	6 103	6 235
Estonia	180	266	248	275	300	310	312	310	316	316
Faroe Islands	4	9	9	20	20	20	20	16	13	19
Finland	199	257	447	627	1 005	1 565	2 044	2 041	2 284	2 474
France	6 758	7 607	8 156	9 201	10 298	11 567	13 499	14 900	16 427	17 382
Germany	28 712	30 979	33 477	38 614	44 580	49 435	55 580	58 721	60 721	62 184
Greece	1 640	1 753	1 809	1 978	2 091	2 370	2 624	2 877	3 589	4 113
Hungary	331	325	329	329	329	329	329	329	323	323
Iceland			2	3	3	3	2	2	2	2
Ireland	1 585	1 704	2 008	2 283	2 451	2 786	3 318	3 676	4 160	4 300
Italy	6 918	8 102	8 542	8 683	9 137	9 384	9 737	10 230	10 679	10 839
Kosovo*	1	1	1	1	1	1	34	34	34	34
Latvia	36	59	66	69	68	70	77	78	78	78
Lithuania	202	275	279	288	436	509	518	533	533	539
Luxembourg	45	58	58	58	64	120	120	123	136	166
Malta		0	0	0	0	0	0	0	0	0
Moldova Rep			1	1	1	2	9	33	34	34
Montenegro							72	118	118	118
Netherlands	2 316	2 433	2 713	2 865	3 391	4 257	4 202	4 393	4 484	6 600
North Macedonia				37	37	37	37	37	37	37
Norway	512	705	818	859	867	883	1 207	1 710	2 914	3 977
Poland	1 800	2 564	3 429	3 836	4 886	5 747	5 759	5 766	5 837	6 267
Portugal	4 256	4 412	4 610	4 857	4 937	5 124	5 124	5 172	5 223	5 239
Romania	988	1 822	2 773	3 244	3 130	3 025	3 030	3 032	3 038	3 023
Serbia		1	1	1	10	17	25	227	398	397
Slovakia	3	3	5	3	3	3	4	3	4	4
Slovenia			4	4	5	5	5	5	5	5
Spain	21 529	22 789	22 958	22 925	22 943	22 990	23 124	23 405	25 583	27 089
Sweden	2 764	3 606	4 194	5 088	5 819	6 435	6 611	7 300	8 681	9 688
Switzerland	46	49	60	60	60	75	75	75	75	87
UK	6 596	9 030	11 282	13 074	14 306	16 126	19 585	21 767	24 095	24 665
Ukraine	146	248	362	514	514	526	553	621	1 258	1 402
European Union (28)	94 042	106 216	117 047	128 745	141 519	154 167	168 550	178 982	191 308	201 507
Middle East	107	115	122	165	286	423	504	609	769	915
Bahrain	1	1	1	1	1	1	1	1	1	1
Iran IR	98	106	108	149	153	191	259	282	302	303
Israel	6	6	6	6	6	27	27	27	27	27
Jordan	1	1	1	1	118	198	198	280	370	515
Kuwait			2	2	2	2	12	12	12	12
Lebanon		1	2	3	3	3	3	3	3	3
Oman									50	50
Saudi Arabia							3	3	3	3
Syrian AR	1	1	1	1	1	1	1	1	1	1
United Arab Em			1	2	2					
N America	51 543	67 092	69 897	76 495	87 058	97 310	104 199	112 109	123 575	139 448
Canada	5 265	6 201	7 801	9 694	11 214	11 973	12 403	12 816	13 413	13 577
Greenland								0	0	0
Mexico	601	1 815	2 122	2 569	3 271	4 051	4 199	4 875	6 591	8 128
St Pierre Mq	1	1	1							
USA	45 676	59 075	59 973	64 232	72 573	81 286	87 597	94 417	103 571	117 744
Oceania	2 702	3 235	3 895	4 531	4 975	5 069	5 557	6 421	7 876	10 295
Australia	2 127	2 561	3 221	3 797	4 234	4 327	4 816	5 679	7 133	9 457
Cook Is	0	0								
Fiji	10	10	10	10	10	10	10	10	10	10
Fr Polynesia	0	0	0	0	0	0	0	0	0	0
Guam						0	0	0	0	0
Marshall Is								0	0	0
Micronesia								1	1	1
New Caledon	38	38	38	38	38	38	38	38	38	38
New Zealand	524	623	623	682	689	689	689	689	689	784
Samoa				1	1	1	1	1	1	1
Tokelau									0	0
Tonga			0	0	0	0	0	0	2	2
Vanuatu	3	3	3	4	4	4	3	3	3	3

## Wind energy Énergie éolienne Energía eólica

<b>CAP (MW)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
S America	1 737	2 340	2 864	6 580	9 943	12 947	15 727	19 140	20 698	24 493
Argentina	60	137	190	215	187	187	227	750	1 609	2 624
Bolivia	0	0	0	3	3	27	27	27	27	27
Brazil	1 426	1 894	2 202	4 888	7 633	10 129	12 304	14 843	15 438	17 198
Chile	184	202	301	736	910	1 039	1 305	1 524	1 620	2 149
Colombia	18	18	18	18	18	18	18	18	18	510
Ecuador	2	2	19	21	21	21	21	21	21	21
Falklands Malv	2	2	2	2	2	2	2	2	2	2
Guyana	0	0	0	0	0	0	0	0	0	0
Peru	1	1	1	143	240	240	240	372	376	376
South Georgia	0	0	0	0	0	0	0	0	0	0
Uruguay	44	53	59	481	857	1 211	1 511	1 511	1 514	1 514
Venezuela		30	71	71	71	71	71	71	71	71

# Onshore wind energy

## Énergie éolienne terrestre

## Energía eólica terrestre

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	216 243	261 573	292 747	340 808	404 531	452 522	495 537	540 204	593 894	698 909
Africa	992	1 125	1 739	2 398	3 322	3 829	4 581	5 469	5 769	6 491
Algeria				10	10	10	10 e	10 e	10 e	10 e
Cabo Verde	17	27	27	27	27	27	27	28 e	28 e	28 e
Chad						1 u	1 e	1 e	1 e	1 e
Egypt	550	550	550	550	750	750	750 o	1 125	1 375 o	1 375 e
Eritrea	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ethiopia	81	81	171	171	324	324 u	324 e	324 e	324 e	324
Gambia	0 o	1 o	1 o	1 o	1 o	1 o	1 o	1 e	1 e	1 e
Ghana					0 o	0 o	0 o	0 e	0 e	0 e
Kenya	6 o	6 o	6 o	6 o	26 e	26 e	26 e	336 e	336 e	336 e
Madagascar	0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e	0 e	0 e
Mauritania			4 o	4 o	34 o	34 o	34 o	34 e	34 e	34 e
Mauritius	1	1	1	1	1	11	11 e	11 e	11 e	11 e
Morocco	255	255	495	797	797	897	1 023 o	1 225 o	1 225 e	1 405 e
Namibia	0 e	0 e	0 e	0 e	0 e	0 e	5 u	5 e	5	5 e
Nigeria	2 u	2 u	2 u	3 u	3 e	3 e	3 e	3 e	3 e	3 e
Reunion	15 o	15 o	15 o	15 o	15 o	17 o	17 e	17 o	17 e	17 e
Senegal									50 u	50 u
Seychelles			6 o	6 o	6 o	6 o	6 o	6 e	6 e	6 e
Somalia		2 u	2 u	2 u	3 u	3 u	4 u	4 e	4 e	4
South Africa	10 o	10 o	257 o	569 o	1 079 o	1 473 o	2 094 o	2 094 o	2 094 e	2 636 u
Tunisia	54 o	173 o	200 o	233 o	244 o	244 o	244 o	244 o	244 o	244 o
Asia	65 792	82 488	99 055	123 820	161 082	182 506	202 010	224 429	251 225	322 670
Afghanistan		0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Bangladesh	2 o	2 o	2 o	2 o	3 o	3 o	3 o	3 e	3 o	3 o
Bhutan					1 u	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	46 145	61 306	76 314	96 379	130 489	147 037	161 586	180 077	203 652 e	273 003 u
Chinese Taipei	523 o	571 o	614 o	637 o	647 o	682 o	684 o	705 o	717 o	726 o
India	16 179 o	17 300 o	18 420 o	22 465 o	25 088 o	28 700 o	32 848 o	35 288 o	37 505 o	38 559 o
Indonesia	1 o	1 o	1 o	1 o	1 o	1 o	1 o	144 o	154 o	154 o
Japan	2 394	2 537	2 596	2 703	2 755	3 187	3 418	3 602 o	3 721 o	4 141 o
Kazakhstan		2	4	53	72	98	112	121 o	284 e	486
Korea DPR	0 u	0 u	0 u	0 u	0 u	0 u	1 o	1 e	1 e	1 e
Korea Rep	425	459	571	602	837	1 027	1 170	1 347 e	1 439 e	1 500 o
Maldives	1 u	1 u	1 u	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Mongolia	1 e	1 e	51 e	51 e	51 e	51 e	101 e	156 o	156 e	156
Myanmar					0 e	0 e	0 e	0 e	0 e	0 e
Nepal			0 u	0 u	0 u	0 u	0 e	0 o	0 o	0 e
Pakistan	6 e	56 e	106 e	206 e	308 e	591 e	789 e	1 186 e	1 236 e	1 236 e
Philippines	33 o	33 o	33 o	337 o	427 o	427 o	427 o	427 o	443 o	443 o
Singapore							0 u	0 e	0 e	0 e
Sri Lanka	44 o	77 o	81 o	121 o	131 o	131 o	131 o	128 o	128 e	252 u
Thailand	7	112	223	225	234	507	628 o	1 103 o	1 507 o	1 507 o
Uzbekistan							1 o	1 o	1 e	1
Viet Nam	31	31	37	37 u	37 u	61 e	106 e	138 u	275 e	501 e
C America + Carib	456	727	822	946	1 302	1 544	1 600	1 709	1 948	1 931
Aruba	30	30	30	30	30	30	30	30 e	30 o	30 e
Barbados						0	0	0 e	0 e	0 e
Belize	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u
BES Islands	11 o	11 o	11 o	11 o	11 o	11 o	11 o	11 e	11 e	11 e
Br Virgin Is	1	1	1	1	1	1	1	1 e	1 e	1 e
Costa Rica	128	144	144	193	272	365	378	408 o	411 o	394 o
Cuba	12	12	12	12	12	12	12	12 e	12	12
Curacao	9	30	30	30	30	30	47 u	47 e	47 e	47 e
Dominica	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e	0 e
Dominican Rep	33	85	85	85	85	135 o	135 o	183 o	370 o	370 o
Grenada	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e
Guadeloupe	23	23	23	23	27	26	26	26 o	43 o	43 o
Guatemala					76	76	76	107 o	107 o	107 o
Haiti								0 u	0 e	0 e
Honduras	102	102	152	152	152	175	225	225	241 u	241 e
Jamaica	39	39	39	39	39	99	99	99 e	99 e	99 o
Martinique	1 o	1 o	1 o	1 o	1 o	1 o	1 e	1 o	15 o	15 o
Nicaragua	63	146	147	186	186	186	186	186 o	186 o	186 o
Panama			20	55	253	270	270	270 o	270	270 e
Puerto Rico	1	101	125	125	125	125	101	101 e	102 o	102 e
St Kitts Nevis	2	2	2	2	2	2	2 u	2 e	2 e	2 e
Trinidad Tobago					0	0	0	0 e	0 e	0 e
US Virgin Is			0 o	0 o	0 o	0 o	0 o	0 e	0 e	0 e
Eurasia	1 742	2 274	2 775	3 645	4 525	5 801	6 566	7 147	7 783	9 867
Armenia	3	3	3	3	3	3 o	3 e	3 o	3 e	3 e
Azerbaijan			3	3	8	16 u	16 u	66 o	66 e	66
Georgia						21 u	21 e	21 e	21 e	21 e
Russian Fed	10	10	10	10 e	11 e	11 e	11 e	52 e	102 e	945
Turkey	1 729	2 261	2 760	3 630	4 503	5 751	6 516	7 005	7 591	8 832 o

# Onshore wind energy

## Énergie éolienne terrestre

## Energía eólica terrestre

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Europe	91 173	102 178	111 579	122 229	132 037	143 123	154 822	163 200	174 280	182 827
Austria	1 106	1 337	1 675	2 110	2 489	2 730	2 887	3 133	3 224	3 224 o
Belarus	2	2	2	3	43	68	83	101	109 e	120
Belgium	873	989	1 072	1 236	1 464	1 658	1 910	2 082	2 308	2 438 u
Bosnia Herzg	0 o	0 o	0 o	0 o	0 o	0 o	0 o	51	87	87 o
Bulgaria	541	677	683	699	699	699	698	699	703	703 o
Croatia	130	180	254	339	418	483	576	586	646	788 o
Cyprus	134	147	147	147	158	158	158	158	158 o	158 o
Czechia	213	258	262	278	281	282	308	316	339	339 o
Denmark	3 081	3 240	3 548	3 615	3 806	3 974	4 225	4 414	4 402	4 534 o
Estonia	180	266	248	275	300	310	312	310	316	316 u
Faroe Islands	4 o	9 o	9 o	20 o	20 o	20 o	20 e	16 o	13 o	19 o
Finland	173 e	231 e	421 e	601 e	973 e	1 533 e	1 971	1 968 o	2 211	2 401 o
France	6 758	7 607	8 156	9 201	10 298	11 567	13 497	14 898	16 425	17 380 o
Germany	28 524 o	30 711 o	32 969 o	37 620 o	41 297 o	45 303	50 174	52 328	53 193	54 437 o
Greece	1 640	1 753	1 809	1 978	2 091	2 370	2 624	2 877	3 589	4 113 u
Hungary	331	325	329	329	329	329	329 u	329 o	323	323 u
Iceland			2	3	3	3	2	2	2	2 e
Ireland	1 559	1 679	1 983	2 258	2 426	2 761	3 293	3 651	4 135	4 275 o
Italy	6 918	8 102	8 542	8 683	9 137	9 384	9 737	10 230	10 679	10 839 o
Kosovo*	1	1	1	1	1	1	34	34	34	34 e
Latvia	36	59	66	69	68	70	77	78	78	78 o
Lithuania	202	275	279	288	436	509	518	533	533	539 o
Luxembourg	45	58	58	58	64	120	120	123	136	166 u
Malta		0	0	0	0 o	0	0	0 e	0 e	0 e
Moldova Rep			1	1	1	2 o	9 o	33	34	34
Montenegro							72 u	118 u	118 u	118 u
Netherlands	2 088 o	2 205 o	2 485 o	2 637 o	3 034 o	3 300 o	3 245	3 436	3 527	4 100 o
North Macedonia				37	37	37	37 u	37 u	37 o	37 o
Norway	510 e	703 e	816 e	857	865 e	881 e	1 205 o	1 708	2 912	3 975 o
Poland	1 800	2 564	3 429	3 836	4 886	5 747	5 759	5 766	5 837	6 267 o
Portugal	4 254	4 410	4 608	4 855	4 935	5 124	5 124	5 172	5 215 u	5 214 u
Romania	988	1 822	2 773	3 244	3 130	3 025	3 032	3 032	3 038	3 023 o
Serbia		1	1	1	10 e	17	25 u	227	398	397 o
Slovakia	3	3	5	3	3	3	4 u	3	4	4 o
Slovenia			4	4	5	5	5	5	5	5 o
Spain	21 529	22 789	22 953 e	22 920	22 938 e	22 985	23 119	23 400	25 578	27 084 o
Sweden	2 601	3 443	3 982	4 875	5 606	6 232	6 408	7 097	8 478	9 485 u
Switzerland	46	49	60	60	60	75	75 u	75 o	75 e	87 u
UK	4 758	6 035	7 586	8 573	9 212	10 833	12 597	13 551	14 125	14 282 o
Ukraine	146	248	362	514	514	526	553	621 o	1 258 o	1 402
European Union (28)	90 504	101 205	110 365	120 771	130 526	141 536	152 750	160 221	169 279	176 590
Middle East	107	115	122	165	286	423	504	609	769	915
Bahrain	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Iran IR	98	106	108	149	153	191	259 o	282 o	302 o	303 o
Israel	6	6	6 e	6 o	6 e	27 e	27 e	27 e	27 e	27 e
Jordan	1 o	1 o	1 o	1 o	118 o	198 o	198 o	280 o	370 o	515 o
Kuwait			2 u	2 e	2 e	2 e	12 e	12 e	12 e	12 e
Lebanon		1 u	2 u	3 u	3 e	3 e	3 e	3 e	3 e	3 e
Oman									50	50 e
Saudi Arabia							3 u	3 e	3 o	3 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			1 e	2 e	2 e	u	u	u	u	u
N America	51 543	67 092	69 897	76 495	87 058	97 281	104 170	112 080	123 546	139 419
Canada	5 265	6 201	7 801	9 694	11 214	11 973	12 403	12 816 u	13 413 u	13 577 u
Greenland								0 o	0 o	0 e
Mexico	601	1 815	2 122	2 569	3 271	4 051	4 199 o	4 875 o	6 591 o	8 128 o
St Pierre Mq	1 u	1 u	1 u							
USA	45 676	59 075	59 973	64 232	72 573	81 257	87 568	94 388 o	103 542 o	117 715 o
Oceania	2 702	3 235	3 895	4 531	4 975	5 069	5 557	6 421	7 876	10 295
Australia	2 127	2 561	3 221	3 797	4 234	4 327	4 816	5 679 o	7 133 o	9 457 o
Cook Is	0 e	0 e								
Fiji	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 u	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
Marshall Is								0 u	0 e	0 e
Micronesia								1 u	1 e	1 e
New Caledon	38 o	38 o	38 o	38 o	38 o	38 o	38 o	38 o	38 e	38 e
New Zealand	524	623	623	682	689	689	689	689 o	689 o	784 o
Samoa				1 o	1 o	1 o	1 o	1 o	1 e	1 e
Tokelau									0 o	0 e
Tonga			0 e	0 e	0 o	0 o	0 o	0 o	2 u	2 e
Vanuatu	3 o	3 o	3 o	4 o	4 o	4 o	3 o	3 e	3 e	3 e

# Onshore wind energy

## Énergie éolienne terrestre

### Energía eólica terrestre

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
S America	1 737	2 340	2 864	6 580	9 943	12 947	15 727	19 140	20 698	24 493
Argentina	60 o	137 o	190 o	215 o	187 o	187 o	227 e	750 e	1 609 o	2 624 e
Bolivia	0	0	0	3 o	3 o	27 o	27 o	27 o	27 o	27 o
Brazil	1 426	1 894	2 202 o	4 888 o	7 633 o	10 129 o	12 304 o	14 843 o	15 438 o	17 198 o
Chile	184	202	301	736	910	1 039	1 305 o	1 524 o	1 620 o	2 149 o
Colombia	18 o	18 o	18 o	18 o	18 o	18 o	18 o	18 o	18 o	510 o
Ecuador	2	2	19	21 o	21 o	21 o	21 o	21 e	21 o	21 o
Falklands Malv	2 e	2 e	2 e	2 e	2 o	2 o	2 o	2 o	2 e	2 e
Guyana	0	0	0	0	0	0	0	0 e	0 e	0 e
Peru	1	1	1	143	240	240	240	372 e	376 e	376 e
South Georgia	0	0	0	0	0	0	0	0	0	0 e
Uruguay	44	53	59	481	857	1 211	1 511	1 511	1 514	1 514 o
Venezuela		30	71 u	71 u	71 u	71 u	71 u	71 u	71 u	71 e

# Offshore wind energy

## Énergie éolienne maritime

### Energía eólica marina

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	3 776	5 334	7 171	8 492	11 717	14 342	18 837	23 626	28 355	34 367
Asia	235	321	488	516	722	1 680	3 006	4 833	6 295	9 418
China	210	291	417	440	559	1 480	2 788 u	4 588 u	5 930	8 990 u
Chinese Taipei							8 u	8 u	128 o	128 o
Japan	25	25	50	50	53	60	65 u	65 u	65 o	65 o
Korea Rep		5	5	11	11	41	46 e	73 u	73 u	136 u
Viet Nam			16 e	16 u	99 u	99 o	99 o	99 e	99 u	99 e
Europe	3 541	5 013	6 684	7 976	10 996	12 633	15 802	18 763	22 031	24 920
Belgium	197	381	708	708	712	712	877	1 186	1 556	2 254 u
Denmark	871	922	1 271	1 271	1 271	1 271	1 264	1 701	1 701	1 701 o
Finland	26 u	26 u	26 u	26 u	32 u	32 u	73	73 o	73	73 u
France							2 u	2 o	2 u	2 u
Germany	188 o	268 o	508 o	994 o	3 283 o	4 132 o	5 406	6 393	7 528	7 747 o
Ireland	25	25	25	25	25	25	25 u	25 o	25	25 o
Netherlands	228 o	228 o	228 o	228 o	357 o	957 o	957 u	957 u	957 u	2 500 o
Norway	2 u	2 u	2 u	2 u	2 u	2 u	2 o	2 u	2 u	2 e
Portugal	2	2	2	2	2				8 u	25 u
Spain			5 u	5 u	5 u	5 u	5 u	5	5 o	5 e
Sweden	163	163	212	213	213	203	203 e	203	203 u	203 u
UK	1 838 o	2 995 o	3 696 o	4 501 o	5 093 o	5 293 o	6 988	8 217	9 971	10 383 o
European Union (28)	3 539	5 011	6 681	7 974	10 994	12 631	15 800	18 761	22 028	24 918
N America				0	0	29	29	29	29	29
USA				0 u	0 u	29	29	29 o	29 o	29 o

# Solar energy

## Énergie solaire

## Energía solar

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	73 745	104 015	139 523	176 089	222 213	296 155	389 411	488 739	587 134	713 970
Africa	331	411	725	1 730	2 256	3 399	5 216	8 072	9 353	10 581
Algeria	25	25	25	26	74	244	425	448	448	448
Angola	8	10	11	12	13	13	13	13	13	13
Benin				0	1	3	3	3	3	3
Botswana	0	2	2	2	2	3	3	4	6	6
Burkina Faso	6	6	6	7	8	10	47	62	62	62
Burundi	1	2	3	3	3	4	5	5	5	5
Cabo Verde	6	6	6	6	6	6	6	8	8	8
Cameroon	2	3	4	6	7	9	12	14	14	14
Cent Afr Rep	0	0	0	0	0	0	0	0	0	0
Chad	0	0	0	0	0	0	0	0	0	0
Congo DR	0	0	0	1	1	3	5	20	20	20
Congo Rep	0	0	0	0	0	0	1	1	1	1
Cote d'Ivoire	2	2	3	4	5	5	8	13	13	13
Djibouti		0	0	0	0	0	0	0	0	0
Egypt	35	35	35	35	45	59	180	765	1 662	1 694
Eq Guinea										0
Eritrea	0	0	0	8	8	8	10	18	20	22
Eswatini	1	1	1	1	1	1	1	1	1	1
Ethiopia	0	1	3	9	10	14	12	12	12	20
Gabon	1	1	1	1	1	1	1	1	1	1
Gambia	2	2	2	2	2	2	2	2	2	2
Ghana			3	5	30	34	39	63	63	70
Guinea	1	1	3	3	13	13	13	13	13	13
Guinea Bissau					0	0	0	1	1	1
Kenya	1	3	7	17	31	32	39	105	106	106
Lesotho			0	0	0	0	0	0	0	0
Liberia	0	0	0	0	0	0	2	3	3	3
Libya	4	5	5	5	5	5	5	5	5	5
Madagascar	2	3	5	7	9	11	13	33	34	37
Malawi	2	3	5	8	12	12	19	23	23	24
Mali	10	16	16	16	17	18	19	19	19	70
Mauritania			18	18	18	35	35	87	88	88
Mauritius		1	2	18	19	27	29	67	83	83
Mayotte	12	13	13	13	13	13	15	15	15	15
Morocco	34	35	35	40	200	202	204	734	734	734
Mozambique	1	2	5	7	10	13	15	15	55	55
Namibia	7	11	15	16	21	36	75	93	145	145
Niger	3	4	5	6	7	8	9	27	27	27
Nigeria		15	15	16	17	18	19	19	28	28
Reunion	131	153	156	167	187	186	188	190	191	191
Rwanda	0	0	1	10	14	19	27	31	31	31
Sao Tome Prn			0	0	0	0	0	0	0	0
Senegal	5	6	7	10	11	43	113	155	155	155
Seychelles			0	1	1	2	3	4	4	4
Sierra Leone	0	0	0	0	0	0	4	4	4	4
Somalia				0	0	5	7	7	7	23
South Africa	6	11	262	1 163	1 352	2 174	3 447	4 801	4 905	5 990
South Sudan		0	0	0	0	0	0	1	1	1
Sudan	4	8	8	8	11	12	13	13	19	19
Tanzania	0	1	4	11	13	19	22	26	26	26
Togo	0	0	0	1	1	2	2	3	3	3
Tunisia	3	6	10	17	28	41	51	64	80	95
Uganda	16	17	19	20	22	24	46	48	82	82
Zambia			0	0	0	0	0	1	96	99
Zimbabwe	0	1	2	3	4	5	6	11	11	17
Asia	9 628	16 004	34 591	56 544	84 901	136 693	206 420	274 603	329 207	407 038
Afghanistan	0	16	17	18	19	20	22	22	32	31
Bangladesh	43	66	94	119	145	161	185	201	255	301
Bhutan	0	0	0	0	0	0	0	0	0	0
Brunei Darism	1	1	1	1	1	1	1	1	1	1
Cambodia	4	5	6	9	12	18	29	29	99	208
China	3 108	6 719	17 759	28 399	43 549	77 809	130 822	175 287	204 996	254 355
Chinese Taipei	130	231	410	636	884	1 245	1 768	2 738	4 150	5 817
India	566	982	1 499	3 673	5 593	9 879	18 152	27 353	35 089	39 211
Indonesia	17	26	38	42	79	88	98	69	155	172
Japan	4 890	6 430	12 107	19 334	28 615	38 438	44 226	55 500	61 526	67 000
Kazakhstan	4	6	16	76	144	157	175	490	1 150	1 719
Korea DPR	2	2	6	11	23	32	35	38	42	42
Korea Rep	730	1 024	1 555	2 481	3 615	4 502	5 835	7 130	10 505	14 575
Lao PDR	0	0	0	3	3	4	22	22	22	22
Malaysia	1	25	97	166	229	279	370	536	882	1 493
Maldives	0	1	2	4	4	7	10	10	13	15
Mongolia	5	5	5	5	5	15	48	64	89	90
Myanmar	1	3	4	6	21	32	44	48	88	84
Nepal	8	9	11	12	13	14	54	52	51	60
Pakistan	19	46	101	165	266	589	655	679	713	737
Philippines	2	2	3	28	173	784	908	914	973	1 048
Singapore	5	8	12	25	46	97	116	160	272	329
Sri Lanka	10	10	13	20	31	63	131	185	215	230
Thailand	79	382	829	1 304	1 425	2 451	2 702	2 967	2 988	2 988
Timor Leste	0	0	1	1	1	1	1	1	1	1



# Solar energy

## Énergie solaire

## Energía solar

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Uzbekistan			1	1	1	2	3	4	4	4
Viet Nam	5	5	5	5	5	5	8	105	4 898	16 504
<b>C America + Carib</b>	<b>104</b>	<b>162</b>	<b>263</b>	<b>336</b>	<b>919</b>	<b>1 135</b>	<b>1 477</b>	<b>1 836</b>	<b>2 255</b>	<b>2 391</b>
Anguilla		0	0	1	1	2	2	1	2	2
Antigua Barb	0	0	0	0	3	4	4	8	8	8
Aruba	0	1	2	5	6	6	6	6	6	6
Bahamas	0	1	1	1	1	1	1	1	2	2
Barbados	1	2	2	7	9	20	21	22	35	50
Belize	1	2	2	3	4	4	4	4	6	7
BES Islands					0	2	4	6	7	7
Br Virgin Is	0	0	0	0	0	0	0	0	0	0
Cayman Is						3	9	10	11	13
Costa Rica	7	10	13	17	22	24	28	28	48	57
Cuba		1	11	22	24	37	65	128	159	163
Curacao	0	0	3	8	10	11	11	11	12	12
Dominica	0	0	0	0	0	1	1	0	0	0
Dominican Rep	0	2	8	15	25	73	106	205	305	370
El Salvador	0	0	13	15	26	28	126	206	391	429
Grenada	0	0	1	1	1	2	2	2	3	3
Guadeloupe	29	60	67	67	67	68	70	70	81	85
Guatemala	1	2	3	10	93	93	99	101	101	101
Haiti	1	1	1	2	2	2	2	3	3	3
Honduras	4	5	5	5	393	414	454	514	514	514
Jamaica	2	2	2	4	7	28	56	56	93	93
Martinique	48	60	62	63	65	67	67	67	71	71
Montserrat									0	0
Nicaragua			1	1	1	1	14	14	16	16
Panama	2	3	4	6	49	93	147	193	198	198
Puerto Rico	4	7	58	73	88	133	165	165	165	165
St Barth						0	0	0	0	0
St Kitts Nevis	0	0	0	1	1	2	2	2	2	2
St Lucia	0	0	0	0	1	1	1	4	4	4
St Martin			1	2	3	2	0	0	0	0
St Vincent Gren	0	0	0	0	1	1	1	1	2	2
Trinidad Tobago	3	3	3	3	3	3	3	3	3	3
Turks Caicos					0	0	0	0	1	1
US Virgin Is	0	1	1	5	9	9	5	5	5	5
<b>Eurasia</b>	<b>8</b>	<b>13</b>	<b>21</b>	<b>48</b>	<b>316</b>	<b>936</b>	<b>3 678</b>	<b>5 651</b>	<b>7 146</b>	<b>8 231</b>
Armenia						1	2	17	50	95
Azerbaijan	1	1	1	2	5	25	28	35	35	40
Georgia						0	0	0	1	1
Russian Fed	0	0	1	5	61	76	225	535	1 064	1 428
Turkey	7	12	19	41	250	834	3 422	5 064	5 996	6 668
<b>Europe</b>	<b>54 721</b>	<b>73 723</b>	<b>84 171</b>	<b>91 092</b>	<b>99 612</b>	<b>106 175</b>	<b>112 369</b>	<b>121 653</b>	<b>142 641</b>	<b>163 466</b>
Albania	1	1	1	1	1	1	1	1	14	17
Andorra				0	0	0	0	1	2	3
Austria	174	337	626	785	937	1 096	1 269	1 455	1 702	2 220
Belarus			1	4	13	51	153	157	157	159
Belgium	1 979	2 647	2 902	3 015	3 132	3 329	3 621	4 000	4 637	5 646
Bosnia Herzg	0	0	1	7	8	14	16	18	22	35
Bulgaria	154	1 013	1 020	1 026	1 029	1 028	1 036	1 033	1 048	1 073
Croatia	0	4	19	33	48	56	60	68	85	85
Cyprus	10	17	35	64	76	84	110	118	151	200
Czechia	1 913	2 022	2 064	2 067	2 075	2 068	2 070	2 075	2 086	2 073
Denmark	17	402	571	607	782	851	906	998	1 080	1 300
Estonia	0	0	2	3	7	10	15	32	121	130
Faroe Islands									0	0
Finland	7	8	9	11	17	39	82	140	222	391
France	3 004	4 359	5 277	6 034	7 138	7 702	8 610	9 691	10 804	11 733
Germany	25 916	34 077	36 710	37 900	39 224	40 679	42 293	45 158	49 047	53 783
Greece	612	1 536	2 579	2 596	2 604	2 604	2 606	2 652	2 834	3 247
Hungary	4	12	35	89	172	235	344	728	1 400	1 953
Iceland		1	1	1	3	4	4	5	7	7
Ireland	1	1	1	2	2	6	16	24	31	40
Italy	13 136	16 790	18 190	18 600	18 907	19 289	19 688	20 114	20 871	21 600
Kosovo*					0	2	7	7	10	10
Latvia		0	0	0	0	1	1	2	3	7
Lithuania	0	7	68	69	69	70	74	82	82	148
Luxembourg	41	75	95	110	116	122	128	131	160	195
Malta	5	16	29	55	75	94	112	131	154	184
Moldova Rep				1	1	2	2	3	5	5
Montenegro	1	1	1	2	3	3	3	4	5	6
Netherlands	149	287	650	1 007	1 526	2 135	2 911	4 608	7 177	10 213
North Macedonia	2	4	7	15	17	17	17	21	26	94
Norway	10	10	11	13	15	27	45	68	120	152
Poland	1	1	2	27	108	187	287	562	1 539	3 936
Portugal	172	238	296	415	447	513	579	667	901	1 025
Romania	1	41	761	1 293	1 326	1 372	1 374	1 386	1 398	1 387

# Solar energy

## Énergie solaire

### Energía solar

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Serbia	4	7	10	13	16	17	18	21	23	29
Slovakia	496	513	533	533	533	533	528	472	590	593
Slovenia	57	142	187	223	238	233	247	247	264	267
Spain	5 432	6 569	6 994	7 001	7 008	7 017	7 027	7 068	11 277	14 089
Sweden	12	24	43	60	104	153	244	428	714	1 417
Switzerland	223	437	756	1 061	1 394	1 664	1 906	2 203	2 589	3 118
UK	1 000	1 753	2 937	5 528	9 601	11 914	12 760	13 073	13 346	13 563
Ukraine	188	372	748	819	841	955	1 200	2 003	5 936	7 331
European Union (28)	54 549	73 213	82 970	89 502	97 682	103 801	109 383	117 530	134 129	152 917
Middle East	215	274	613	904	1 079	1 586	2 216	3 489	5 933	6 968
Bahrain	0	1	1	5	5	6	6	6	9	10
Iran IR	0	0	1	9	9	43	184	286	367	414
Iraq			30	37	37	37	37	216	216	216
Israel	196	243	426	676	772	872	975	1 076	1 438	1 439
Jordan	0	0	0	0	6	296	406	809	1 101	1 359
Kuwait	0	0	0	2	3	31	32	43	93	93
Lebanon	0	1	2	5	11	24	38	65	65	65
Oman			1	1	2	2	8	8	9	109
Palestine	0	1	1	3	12	25	35	40	50	55
Qatar	1	1	2	4	4	5	5	5	5	5
Saudi Arabia	3	14	22	24	24	24	34	84	409	409
Syrian AR							0	1	2	2
United Arab Em	13	13	126	133	134	141	355	598	1 918	2 539
Yemen	1	1	2	5	60	80	100	250	250	253
N America	6 180	9 439	14 337	19 610	26 132	37 766	46 702	58 839	68 432	84 540
Canada	497	766	1 210	1 843	2 517	2 661	2 913	3 100	3 310	3 325
Greenland								0	0	0
Mexico	39	60	82	116	173	389	674	2 555	4 440	5 644
USA	5 644	8 613	13 045	17 651	23 442	34 716	43 115	53 184	60 682	75 572
Oceania	2 494	3 829	4 609	5 356	6 077	6 857	7 573	8 878	13 567	17 986
Amer Samoa		2	2	2	2	4	4	5	5	5
Australia	2 473	3 799	4 568	5 287	5 946	6 689	7 354	8 627	13 252	17 627
Cook Is	0	0	1	2	3	4	4	6	7	7
Fiji	0	1	1	2	3	5	7	9	10	10
Fr Polynesia	11	14	17	25	28	32	35	38	39	39
Guam	0	0	1	1	32	35	35	35	35	35
Kiribati	0	0	1	1	2	3	3	3	3	3
Marshall Is	0	0	1	1	1	2	2	2	2	2
Micronesia	1	1	1	1	1	1	1	2	2	2
Nauru	0	0	0	0	0	1	1	1	2	2
New Caledon	3	3	3	3	7	9	26	29	62	80
New Zealand	3	4	8	22	37	53	70	90	117	142
Niue	0	0	0	0	0	0	0	0	1	1
Palau	1	1	1	1	1	1	1	2	2	2
Papua N Guin	0	0	0	0	1	1	1	1	1	1
Samoa	0	0	0	3	5	7	14	14	14	14
Solomon Is	1	1	1	1	1	2	3	3	3	3
Tokelau	0	1	1	1	1	1	1	1	1	1
Tonga	0	1	2	2	3	3	6	6	6	6
Tuvalu	0	0	0	0	2	2	2	2	2	2
Vanuatu	0	0	0	0	0	2	3	3	3	3
S America	65	161	193	469	921	1 609	3 760	5 718	8 600	12 768
Argentina	1	6	8	8	9	9	9	191	442	764
Bolivia	3	4	6	6	6	6	8	70	120	120
Brazil	2	3	8	20	41	148	1 296	2 470	4 615	7 881
Chile		2	15	221	576	1 125	1 809	2 236	2 654	3 205
Colombia	1	1	1	1	1	2	11	86	90	107
Ecuador	0	0	4	26	26	26	26	27	28	28
Falklands Malv					0	0	0	0	0	0
Fr Guiana	36	36	37	37	47	47	47	47	47	55
Guyana	1	1	1	1	2	2	3	6	8	8
Paraguay	0	0	0	0	0	0	0	0	0	0
Peru	18	103	109	134	139	146	298	325	331	331
Suriname	0	1	1	6	6	6	6	7	7	7
Uruguay	0	1	2	4	65	89	243	248	254	256
Venezuela	2	2	2	3	5	5	5	4	5	5

# Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	72 040	101 449	135 681	171 590	217 463	291 295	384 452	482 916	580 760	707 495
Africa	266	346	660	1 565	1 931	2 974	4 691	7 096	8 277	9 505
Algeria				1	49	219	400 o	423 u	423 e	423 e
Angola	8 e	10 e	11 e	12 e	13 e	13 e	13 e	13 e	13 e	13 e
Benin				0	1	3	3	3	3 e	3 e
Botswana	0 e	2 e	2 e	2 e	2 e	3 e	3 e	4 e	6 e	6 e
Burkina Faso	6 e	6 e	6 e	7 e	8 e	10 e	47 e	62 e	62 e	62 e
Burundi	1 e	2 e	3 e	3 e	3 e	4 e	5 e	5 e	5 e	5 e
Cabo Verde	6	6	6	6	6	6	6	8 e	8 e	8 e
Cameroon	2 e	3 e	4 e	6 e	7 e	9 e	12 e	14 e	14 e	14 u
Cent Afr Rep	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0	0 e
Chad	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Congo DR	0 e	0 e	0 e	1 e	1 e	3 u	5 u	20 u	20 e	20 e
Congo Rep	0 e	0 e	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e
Cote d'Ivoire	2 e	2 e	3 e	4 e	5 e	5 e	8 e	13 e	13 e	13 e
Djibouti		0 e	0 e	0 e	0 e	0 u	0 u	0 u	0 u	0 e
Egypt	15	15	15	15	25	39 u	160 o	744 o	1 641 o	1 673 u
Eq Guinea										0 e
Eritrea	0 e	0 e	0 e	8 e	8 e	8 e	10 e	18 e	20 e	22 e
Eswatini	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ethiopia	0	1	3	9	10	14	12	12	12	20
Gabon	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Gambia	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Ghana			3 o	5 o	30 o	34 o	39 o	63 e	63 e	70 e
Guinea	1 e	1 e	3 e	3 e	13 e	13 e	13 e	13 e	13 e	13 e
Guinea Bissau					0 e	0 e	0 e	1 o	1 e	1 e
Kenya	1 e	3 e	7 e	17 e	31 e	32 e	39 e	105 e	106 e	106 e
Lesotho			0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Liberia	0 u	0 u	0 u	0 u	0 u	0 u	2 u	3 u	3 e	3 e
Libya	4 e	5 u	5 u	5 u	5 u	5 u	5 u	5 e	5 e	5 e
Madagascar	2 e	3 e	5 e	7 e	9 e	11 e	13 e	33 e	34 e	37 e
Malawi	2 e	3 e	5 e	8 e	12 e	12 e	19 e	23 e	23 e	24 e
Mali	10 e	16 e	16 o	16 e	17 e	18 e	19 e	19 e	19 o	70 e
Mauritania			18 o	18 o	18 o	35 o	35 o	87 u	88 u	88 e
Mauritius		1	2	18	19	27 e	29 e	67 e	83 e	83 e
Mayotte	12 o	13 o	13 o	13 o	13 o	13 o	15 o	15 o	15 e	15 e
Morocco	14	15	15	20	20	22	24 o	204 o	204 o	204 e
Mozambique	1 e	2 e	5 e	7 e	10 e	13 e	15 e	15 e	55 e	55 e
Namibia	7 e	11 e	15 e	16 e	21 e	36 e	75 e	93 e	145 e	145 e
Niger	3 e	4 e	5 e	6 e	7 e	8 e	9 u	27 u	27 u	27 e
Nigeria		15 e	15 e	16 e	17 e	18 e	19 e	19 u	28 e	28 e
Reunion	131 o	153 o	156 o	167 o	187 o	186 o	188 o	190 o	191 e	191 e
Rwanda	0 e	0 e	1 e	10 e	14 e	19 e	27 e	31 e	31 e	31 e
Sao Tome Prn			0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Senegal	5 e	6 e	7 e	10 e	11 e	43 e	113 e	155 e	155 e	155 e
Seychelles			0 o	1 o	1 o	2 o	3 e	4 e	4 e	4 e
Sierra Leone	0 u	0 u	0 u	0 u	0 u	0 u	4 u	4 u	4 e	4 e
Somalia			0 e	0 e	0 e	5 e	7 e	7 e	7 e	23
South Africa	6 e	11 e	262 e	1 063 e	1 252 e	1 974 e	3 147 e	4 401 e	4 405 e	5 490 e
South Sudan		0 e	0 e	0 e	0 e	0 u	0 u	1 u	1 u	1 e
Sudan	4	8	8	8	11	12 o	13	13 u	19 u	19 e
Tanzania	0 e	1 e	4 e	11 e	13 e	19 e	22 e	26 e	26 e	26 e
Togo	0	0	0	1	1	2	2	3 o	3 u	3
Tunisia	3 e	6 e	10 e	17 e	28 e	41 e	51 e	64 e	80 u	95 e
Uganda	16 e	17 e	19 e	20 e	22 e	24 e	46 e	48 e	82 u	82 e
Zambia	e	e	0 e	0 e	0 e	0 e	0 e	1 e	96 u	99 e
Zimbabwe	0 e	1 e	2 e	3 e	4 e	5 e	6 e	11 e	11 e	17 e
Asia	9 625	15 995	34 522	56 300	84 657	136 438	206 165	274 098	328 553	406 283
Afghanistan	0 e	16 e	17 e	18 e	19 e	20 e	22 e	22 e	32 e	31 e
Bangladesh	43 o	66 o	94 o	119 o	145 o	161 o	185 o	201 o	255 o	301 o
Bhutan	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Brunei Darism	1	1	1	1	1	1	1	1	1	1 o
Cambodia	4 e	5 e	6 e	9 e	12 e	18 e	29 e	29 e	99 e	208 e
China	3 108	6 718	17 748	28 388	43 538	77 788	130 801	175 016	204 575 e	253 834 o
Chinese Taipei	130 o	231 o	410 o	636 o	884 o	1 245 o	1 768 o	2 738 o	4 150 o	5 817 o
India	563 e	979 e	1 446 e	3 444 e	5 365 e	9 651 e	17 923 e	27 125 e	34 861 e	38 983 e
Indonesia	17 e	26 e	38 e	42 e	79 e	88 e	98 e	69 e	155 e	172 e
Japan	4 890	6 430	12 107	19 334	28 615	38 438	44 226	55 500 u	61 526 u	67 000 u
Kazakhstan	4	6	16	76	144	157	175	490 o	1 150 e	1 719
Korea DPR	2 u	2 u	6 u	11 u	23 u	32 u	35 u	38 u	42 u	42 e
Korea Rep	730	1 024	1 555	2 481	3 615	4 502 o	5 835	7 130 o	10 505 o	14 575 o
Lao PDR	0 e	0 e	0 e	3 e	3 e	4 e	22 e	22 e	22 e	22 e
Malaysia	1 o	25 o	97 o	166 e	229 e	279 e	370 e	536 e	882 e	1 493 e
Maldives	0 e	1 e	2 e	4 e	4 e	7 e	10 e	10 e	13 u	15 u
Mongolia	5 e	5 e	5 e	5 e	5 e	15 e	48 e	64 e	89 e	90
Myanmar	1 e	3 e	4 o	6 o	21 o	32 o	44 o	48 o	88 u	84 e
Nepal	8 o	9 o	11 o	12 o	13 o	14 o	54 e	52 e	51 e	60 e
Pakistan	19 e	46 e	101 e	165 e	266 e	589 e	655 e	679 e	713 e	737 e
Philippines	2 o	2 o	3 o	28 o	173 o	784 o	908 o	914 o	973 o	1 048 o
Singapore	5 o	8 o	12 o	25 o	46 o	97 o	116 o	160 o	272 o	329 o
Sri Lanka	10 e	10 e	13 e	20 e	31 e	63 e	131 e	185 e	215 e	230 e
Thailand	79	377	824	1 299	1 420	2 446	2 697	2 962 o	2 983 o	2 983 o
Timor Leste	0 e	0 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Uzbekistan			1	1	1	2	3	4	4 e	4

# Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Viet Nam	5 e	5 e	5 e	5 e	5 e	5 e	8 e	105 e	4 898 e	16 504 e
C America + Carib	104	162	263	336	919	1 135	1 477	1 836	2 255	2 391
Anguilla		0 e	0 e	1 e	1 e	2 e	2 e	1 e	2 e	2 e
Antigua Barb	0	0	0	0	3	4	4	8 u	8 u	8 e
Aruba	0 e	1 e	2 e	5 e	6	6	6	6 e	6 e	6 e
Bahamas	0 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	2 o	2 e
Barbados	1 u	2 u	2 u	7	9	20 u	21 u	22 u	35 u	50 o
Belize	1	2	2	3	4	4	4	4 e	6 u	7 e
BES Islands					0	2	4	6 o	7 o	7 e
Br Virgin Is	0	0	0	0	0	0	0	0 e	0 e	0 e
Cayman Is						3 u	9 u	10 u	11 u	13 o
Costa Rica	7	10 o	13 o	17 o	22 o	24 o	28 o	28 o	48 e	57 e
Cuba		1	11	22	24	37	65 u	128 u	159 u	163 u
Curacao	0	0	3	8	10	11 o	11 o	11 u	12 u	12 e
Dominica	0	0	0	0	0	1	1	0 e	0 e	0 e
Dominican Rep	0 o	2 o	8 o	15 o	25 o	73 o	106 o	205 o	305 o	370 o
El Salvador	0 e	0 e	13 e	15 e	26 e	28 e	126	206	391 o	429 e
Grenada	0 o	0 o	1 o	1 o	1 o	2 o	2 o	2 o	3 o	3 e
Guadeloupe	29	60	67	67	67	68	70	70 o	81 o	85 o
Guatemala	1 e	2 e	3 e	10 e	93 e	93 e	99 e	101 e	101 e	101 e
Haiti	1 e	1 e	1 e	2 e	2 e	2 e	2 e	3 e	3 e	3 e
Honduras	4 e	5 e	5 e	5 e	393 e	414 e	454 e	514 e	514 e	514 e
Jamaica	2	2	2	4	7	28	56 u	56 e	93 u	93 e
Martinique	48	60	62	63 o	65	67 o	67 e	67 o	71 o	71 o
Montserrat									0 u	0 e
Nicaragua			1 o	1	1	1	14 o	14 o	16 o	16 o
Panama	2	3	4	6	49	93	147 o	193 e	198 u	198 e
Puerto Rico	4	7	58	73	88	133	165 e	165 e	165 e	165 e
St Barth						0 o	0 o	0 o	0 e	0 e
St Kitts Nevis	0	0	0	1	1	2	2	2 e	2 e	2 e
St Lucia	0	0	0	0	1	1	1	4 u	4 e	4 o
St Martin			1	2	3	2	0 o	0 e	0 e	0 e
St Vincent Gren	0	0	0	0	1	1	1	1 e	2 u	2 e
Trinidad Tobago	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Turks Caicos					0 o	0 e	0 u	0 u	1 u	1 e
US Virgin Is	0 e	1 e	1 e	5 e	9 e	9 e	5 e	5 o	5 e	5 e
Eurasia	8	13	20	47	315	935	3 677	5 650	7 145	8 230
Armenia						1	2	17 o	50 o	95 e
Azerbaijan	1	1	1	2 u	5	25	28 u	35 o	35	40
Georgia						0 u	0 u	0 u	1 u	1 e
Russian Fed	0	0	1	5 e	61 e	76 e	225 e	535 e	1 064 e	1 428
Turkey	7 u	12 u	18 u	40	249	833	3 421 o	5 063	5 995	6 667 o
Europe	53 565	71 716	81 860	88 780	97 300	103 863	110 057	119 341	140 320	161 145
Albania	1 e	1 e	1 e	1 e	1 e	1	1	1 e	14	17 e
Andorra				0 o	0 o	0 o	0 o	1 o	2 o	3 e
Austria	174	337	626	785	937	1 096	1 269	1 455	1 702	2 220 e
Belarus			1 e	4	13	51	153	157	157 e	159
Belgium	1 979	2 647	2 902	3 015	3 132	3 329	3 621	4 000	4 637	5 646 u
Bosnia Herzg	0 e	0 o	1 o	7 o	8 o	14 o	16	18 o	22	35 o
Bulgaria	154	1 013	1 020	1 026	1 029	1 028	1 036	1 033	1 048	1 073 o
Croatia	0	4	19	33	48	56	60	68	85	85 o
Cyprus	10	17	35	64	76	84	110	118	151	200 o
Czechia	1 913	2 022	2 064	2 067	2 075	2 068	2 070	2 075	2 086	2 073 o
Denmark	17	402	571	607	782	851	906	998 o	1 080	1 300 e
Estonia	0 u	0 u	2 u	3 u	7 u	10	15	32	121	130 o
Faroe Islands									0	0 o
Finland	7	8	9	11	17	39	82	140	222	391 e
France	3 004	4 359	5 277	6 034	7 138	7 702	8 610	9 691	10 795	11 724 e
Germany	25 914	34 075	36 708	37 898	39 222	40 677	42 291	45 156	49 045	53 781 o
Greece	612	1 536	2 579	2 596	2 604	2 604	2 606	2 652	2 834	3 247 o
Hungary	4	12	35	89	172	235	344	728	1 400	1 953 o
Iceland		1 e	1 e	1 e	3 e	4 e	4 e	5 e	7 e	7 e
Ireland	1	1	1	2	2	6	16	24	31 o	40 e
Italy	13 131	16 785	18 185	18 594	18 901	19 283	19 682	20 108	20 865	21 594 o
Kosovo*					0 o	2	7	7 o	10	10 e
Latvia		0 e	0 e	0 e	0	1	1	2	3	7 e
Lithuania	0	7	68	69	69	70	74	82	82 e	148 e
Luxembourg	41	75	95	110	116	122	128	131	160	195 o
Malta	5	16	29	55	75	94	112	131	154	184 o
Moldova Rep				1	1	2 o	2 o	3	5	5
Montenegro	1 e	1 e	1 e	2 e	3 e	3 e	3 e	4 e	5 e	6 e
Netherlands	149	287	650	1 007	1 526	2 135	2 911	4 608	7 177	10 213 o
North Macedonia	2	4	7	15	17	17	17	21	26 o	94 e
Norway	10 u	10 u	11 u	13 u	15 u	27 u	45 u	68 u	120 u	152 u
Poland	1	1	2	27	108	187	287	562	1 539	3 936 u
Portugal	172	238	296	415	447	513	579	667	901	1 025 e
Romania	1	41	761	1 293	1 326	1 372	1 374	1 386	1 398	1 387 o
Serbia	4 e	7 e	10 e	13 e	16 e	17 e	18 e	21 e	23 e	29 e

# Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Slovakia	496	513	533	533	533	533	528	472	590	593 o
Slovenia	57	142	187	223	238	233	247	247	264	267 o
Spain	4 283	4 569	4 690	4 697	4 704	4 713	4 723	4 764	8 973	11 785 e
Sweden	12	24	43	60	104	153	244	428	714	1 417 e
Switzerland	223	437	756	1 061	1 394	1 664	1 906 o	2 203 o	2 589 o	3 118 e
UK	1 000	1 753	2 937	5 528	9 601	11 914	12 760	13 073 o	13 346	13 563 o
Ukraine	188	372	748	819 o	841 o	955 o	1 200 o	2 003 o	5 936 o	7 331
European Union (28)	53 393	71 206	80 659	87 190	95 369	101 489	107 071	115 218	131 808	150 596
Middle East	209	268	507	798	972	1 479	2 110	3 333	5 485	6 520
Bahrain	0 u	1 u	1 e	5 u	5 e	6 u	6 e	6 u	9 o	10 o
Iran IR	0	0	1	9	9	43	184 o	286 e	367 e	414 e
Iraq			30 o	37 o	37 e	37 e	37 e	216 e	216 e	216 e
Israel	190 u	237 u	420 u	670 u	766 e	866 e	969 e	1 070 u	1 190 u	1 190 u
Jordan	0 e	0 e	0 e	0 e	6 e	296 e	406 e	809 e	1 101 o	1 359 e
Kuwait	0 o	0 o	0 o	2 o	3 o	31 o	32 o	43	43 o	43 e
Lebanon	0 e	1 e	2 e	5 e	11 e	24 e	38 e	65 o	65 e	65 e
Oman			1 u	1 e	2 e	2 e	8 e	8 e	9 e	109 e
Palestine	0	1	1	3	12	25	35	40	50 u	55 e
Qatar	1 u	1 u	2 u	4 u	4 e	5 u	5 e	5 e	5 e	5 e
Saudi Arabia	3 u	14 u	22 u	24 e	24 e	24 e	34 e	34 e	359 e	359 e
Syrian AR							0 u	1 u	2 u	2 e
United Arab Em	13 e	13 e	26 e	33 e	33 e	40 e	255 u	498 o	1 818 o	2 439 u
Yemen	1 o	1 o	2 o	5 o	60 o	80 o	100 e	250 u	250 e	253 u
N America	5 708	8 963	13 051	17 943	24 374	36 008	44 944	57 067	66 660	82 768
Canada	497	766	1 210	1 843	2 517	2 661	2 913	3 100 o	3 310 e	3 325 o
Greenland								0 o	0 o	0 e
Mexico	39	60	82	116	173	389	674 o	2 541 u	4 426 o	5 630 o
USA	5 172	8 137	11 759	15 984	21 684	32 958	41 357	51 426 o	58 924 o	73 814 o
Oceania	2 491	3 826	4 606	5 353	6 074	6 854	7 571	8 876	13 565	17 984
Amer Samoa		2 o	2 o	2 o	2 o	4 o	4 o	5 u	5 u	5 e
Australia	2 470	3 796	4 565	5 284	5 943	6 686	7 352	8 625 o	13 250 o	17 625 o
Cook Is	0 e	0 e	1 e	2 e	3 e	4 e	4 e	6 e	7 e	7 e
Fiji	0 u	1 u	1 u	2 u	3 u	5 u	7 u	9 u	10 u	10 e
Fr Polynesia	11 o	14 o	17 o	25 o	28 o	32 o	35 o	38 o	39 e	39 e
Guam	0 o	0 o	1 o	1 o	32 o	35 o	35 o	35 e	35 e	35 e
Kiribati	0 o	0 o	1 o	1 u	2 u	3 u	3 u	3 e	3 e	3 e
Marshall Is	0 e	0 e	1 e	1 e	1 e	2 e	2 e	2 e	2 e	2 e
Micronesia	1 e	1 e	1 e	1 e	1 e	1 e	1 e	2 u	2 e	2 e
Nauru	0 e	0 e	0 e	0 e	0 e	1 e	1 e	1 e	2 o	2 e
New Caledon	3 o	3 o	3 o	3 o	7 o	9 o	26 o	29 o	62 e	80 e
New Zealand	3	4	8	22	37	53	70	90	117 o	142 o
Niue	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 u	1 e
Palau	1 o	1 o	1 o	1 o	1 o	1 o	1 o	2 e	2 e	2 e
Papua N Guin	0 e	0 e	0 e	0 e	1 u	1 u	1 u	1 u	1 e	1 e
Samoa	0 e	0 e	0 e	3 e	5 e	7 e	14 e	14 e	14 e	14 e
Solomon Is	1 e	1 e	1 e	1 e	1 e	2 e	3 e	3 e	3 u	3 e
Tokelau	0 u	1 u	1 u	1 u	1 u	1 u	1 e	1 e	1 e	1 e
Tonga	0 o	1 e	2 o	2 o	3 o	3 o	6 o	6 o	6 e	6 e
Tuvalu	0 e	0 o	0 o	0 o	2 o	2 o	2 o	2 e	2 e	2 e
Vanuatu	0 e	0 e	0 e	0 e	0 e	2 e	3 e	3 e	3 e	3 e
S America	65	161	193	469	921	1 609	3 760	5 619	8 501	12 668
Argentina	1 o	6 o	8 o	8 o	9 o	9 o	9 e	191 e	442 o	764 e
Bolivia	3 e	4 e	6 e	6 e	6 e	6 e	8 e	70 o	120 o	120 e
Brazil	2 e	3 e	8 e	20 e	41 e	148 e	1 296 e	2 470 e	4 615 e	7 881 e
Chile		2	15	221	576	1 125	1 809 o	2 137 o	2 555 o	3 106 o
Colombia	1	1	1	1	1	2	11	86 o	90 e	107 o
Ecuador	0	0	4 o	26 o	26 o	26 o	26 o	27 e	28 o	28 o
Falklands Malv					0 o	0 o	0 o	0 o	0 e	0 e
Fr Guiana	36 o	36 o	37 o	37 o	47 o	47 o	47 o	47 o	47 o	55 e
Guyana	1	1	1	1	2	2	3	6 e	8 e	8 e
Paraguay	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 e
Peru	18 e	103 e	109 e	134 e	139 e	146 e	298 e	325	331	331 e
Suriname	0 e	1 e	1 e	6 e	6 e	6 e	6 e	7 u	7 e	7 e
Uruguay	0	1	2	4	65	89	243	248	254	256 o
Venezuela	2	2	2	3	5	5	5	4 e	5 o	5 e

## Concentrated solar power Solaire thermique à concentration Energía solar termoeléctrica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	1 705	2 567	3 842	4 499	4 750	4 860	4 959	5 823	6 374	6 475
Africa	65	65	65	165	325	425	525	976	1 076	1 076
Algeria	25 o	25 o	25 o	25 o	25 o	25 o	25 e	25 e	25 e	25 e
Egypt	20	20	20	20	20	20	20 o	21 u	21 e	21 e
Morocco	20	20	20	20	180	180	180 o	530	530 e	530 e
South Africa				100 o	100 o	200 o	300 o	400 o	500 u	500 e
Asia	3	10	70	245	245	255	255	505	655	755
China		1	11	11	11	21	21	271	421	521 u
India	3 e	4 e	54 e	229 e	229 e	229 e	229 e	229 o	229 o	229 e
Korea Rep	0 e	0 e	0 e	0 e	0 e	0 e	0 e			
Thailand		5	5	5	5	5	5	5 e	5 e	5 e
Eurasia			1	1	1	1	1	1	1	1
Turkey			1 o	1 o	1 o	1 o	1 o	1 o	1 e	1 e
Europe	1 156	2 007	2 311	2 312	2 312	2 312	2 312	2 312	2 321	2 321
France									9 o	9 e
Germany	2	2	2	2	2	2	2 e	2	2	2 e
Italy	5 o	5 o	5 o	6 o	6 o	6 o	6 o	6 e	6 e	6 e
Romania							0	0	0 e	0 e
Spain	1 149	2 000	2 304	2 304	2 304	2 304	2 304	2 304	2 304	2 304 o
European Union (28)	1 156	2 007	2 311	2 312	2 312	2 312	2 312	2 312	2 321	2 321
Middle East	6	6	106	106	106	106	106	156	448	448
Israel	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e	248 u	248 e
Kuwait									50 e	50 e
Saudi Arabia								50 u	50 e	50 e
United Arab Em			100 o	100 o	100 u	100 u	100 u	100 e	100 e	100 e
N America	472	476	1 286	1 667	1 758	1 758	1 758	1 772	1 772	1 772
Mexico								14 o	14 o	14 o
USA	472	476	1 286	1 667	1 758	1 758	1 758 o	1 758 o	1 758 o	1 758 o
Oceania	3	3	3	3	3	3	2	2	2	2
Australia	3	3	3	3	3	3	2	2	2 o	2 e
S America								99	99	100
Chile								99 o	99 o	100 o

# Bioenergy Bioénergíe Bioenergía

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	71 745	76 617	83 855	89 981	96 671	104 454	110 505	117 635	124 076	126 557
Africa	1 073	1 180	1 253	1 354	1 451	1 486	1 564	1 655	1 708	1 709
Angola				51	51	51	51	51	51	51
Burkina Faso			0	0	1	1	1	1	1	1
Burundi	4	4	4	4	4	4	4	4	4	4
Congo DR	0	0	0	0	0	0	2	3	3	3
Egypt	67	67	67	67	67	67	67	67	79	79
Eswatini	123	123	123	106	106	106	106	106	106	106
Ethiopia	20	20	71	71	119	145	205	290	290	290
Gabon					1	1	1	1	1	1
Ghana	7	7	7	8	8	8	8	8	8	8
Kenya	67	67	67	67	88	88	88	88	88	88
Madagascar	0	0	0	0	0	0	0	0	0	0
Malawi	12	12	12	12	12	12	12	12	12	12
Mali	32	32	32	40	40	40	40	40	40	40
Mauritius	86	86	87	87	97	97	97	97	97	97
Morocco	1	1	1	1	1	2	2	2	2	2
Mozambique	14	14	14	14	14	14	14	14	14	14
Namibia	0	0	0	0	0	0	0	0	0	0
Nigeria	6	6	8	9	9	10	10	10	10	10
Reunion	44	44	44	44	45	46	46	46	87	87
Rwanda	1	1	1	1	1	1	1	1	1	1
Senegal	25	25	25	25	25	25	25	25	25	25
Sierra Leone				34	34	34	34	34	34	34
South Africa	246	246	246	246	251	256	260	265	265	266
Sudan	95	199	199	199	199	199	199	199	199	199
Tanzania	64	66	66	70	70	70	70	70	70	70
Uganda	16	16	36	54	65	65	76	76	76	76
Zambia	43	43	43	43	43	43	43	43	43	43
Zimbabwe	100	100	100	100	100	100	100	100	100	100
Asia	15 192	16 237	18 518	21 189	24 564	29 930	32 777	36 452	40 563	41 216
Bangladesh	2	3	3	4	5	5	5	5	5	5
Cambodia	7	34	26	34	32	30	50	51	51	51
China	3 808	4 617	6 089	6 653	7 977	9 269	11 234	13 235	16 537	18 687
Chinese Taipei	394	396	396	396	395	395	395	397	393	394
India	3 677	3 929	4 180	5 030	5 478	8 895	9 417	10 137	10 225	10 532
Indonesia	1 950	1 970	1 701	1 729	1 734	1 775	1 849	1 875	1 884	1 887
Japan	1 780	1 475	1 514	1 630	1 901	2 213	2 608	2 793	3 197	1 517
Kazakhstan			0	0	0	0	1	1	2	8
Korea Rep	194	197	192	601	1 233	1 292	1 440	1 454	1 572	1 317
Lao PDR			40	40	40	40	40	40	40	40
Malaysia	774	768	1 045	1 431	1 580	1 558	818	839	919	931
Maldives									0	0
Myanmar	2	2	2	2	2	2	5	5	5	5
Pakistan	262	262	268	324	333	374	374	432	432	432
Philippines	104	124	131	143	233	259	276	341	393	368
Singapore	128	128	160	183	205	210	211	219	219	219
Sri Lanka	12	12	13	26	26	30	40	51	54	54
Thailand	1 975	2 196	2 634	2 829	3 231	3 395	3 824	4 196	4 255	4 389
Viet Nam	125	125	125	136	161	188	192	380	380	380
C America + Carib	1 510	1 644	1 738	1 960	2 050	2 348	2 444	2 571	2 847	2 952
Aruba				2	2	2	2	2	2	2
Belize	28	28	28	28	28	44	52	52	42	42
Costa Rica	34	34	38	36	37	43	47	60	79	80
Cuba	544	519	470	499	530	495	532	554	842	951
Dominican Rep	15	16	16	16	17	47	47	47	47	47
El Salvador	202	259	270	305	202	259	270	305	305	299
Guadeloupe	31	31	31	31	31	31	31	35	35	35
Guatemala	384	473	598	714	873	1 056	1 091	1 103	1 036	1 036
Honduras	88	88	88	129	129	121	121	121	126	126
Jamaica	32	32	32	32	32	32	32	32	32	32
Martinique	4	4	4	4	5	5	5	45	45	45
Nicaragua	122	134	134	134	134	177	177	177	218	218
Panama	28	28	30	30	27	32	33	33	33	33
Puerto Rico					5	5	5	5	5	5
Eurasia	1 297	1 340	1 406	1 628	1 679	1 767	1 887	2 003	2 398	2 715
Armenia	1	1								
Azerbaijan			37	37	38	38	43	45	45	45
Russian Fed	1 197	1 197	1 197	1 370	1 370	1 370	1 373	1 370	1 370	1 370
Turkey	99	142	172	221	271	359	472	587	983	1 300
Europe	28 544	30 055	31 377	33 067	34 468	35 489	36 885	39 718	41 064	42 257
Albania							1	1	1	1
Andorra	5	5	5	5	5	5	5	5	5	5
Austria	2 249	1 672	1 507	1 411	1 396	1 393	1 290	1 271	1 249	1 249
Belarus	19	19	35	35	35	40	41	48	53	54
Belgium	1 031	986	965	913	943	923	912	887	906	832
Bosnia Herzg						1	1	1	3	3

# Bioenergy Bioénergíe Bioenergía

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bulgaria	11	14	34	40	54	57	52	69	57	57
Croatia	15	19	24	25	53	63	87	115	127	143
Cyprus	9	9	10	10	10	10	10	13	13	13
Czechia	505	653	690	745	771	773	802	782	830	840
Denmark	1 145	1 376	1 185	1 248	1 243	1 305	1 791	1 774	1 985	2 135
Estonia	149	167	261	278	281	281	281	259	273	273
Faroe Islands										0
Finland	1 880	1 868	1 952	1 977	1 987	2 008	2 230	2 230	2 227	2 597
France	966	1 050	1 187	1 242	1 306	1 447	1 496	1 733	1 818	1 851
Germany	7 162	7 471	7 961	8 195	8 426	8 657	8 979	9 653	9 985	10 364
Greece	45	45	46	47	51	58	64	82	88	95
Hungary	500	331	328	549	519	427	461	484	476	476
Ireland	45	57	66	70	70	72	103	103	107	107
Italy	2 262	3 178	3 344	3 359	3 367	3 439	3 450	3 491	3 454	3 554
Latvia	30	66	108	121	126	143	154	134	158	158
Lithuania	33	53	64	71	71	72	79	104	104	118
Luxembourg	19	20	23	23	24	25	36	36	56	56
Malta	3	3	3	3	3	5	5	5	5	5
Moldova Rep			2	3	3	3	6	6	6	6
Netherlands	691	716	769	752	782	769	772	827	820	826
North Macedonia					4	5	7	8	10	10
Norway	140	140	140	140	140	87	87	87	81	81
Poland	277	583	735	816	961	974	968	1 004	1 010	1 041
Portugal	560	568	551	561	577	587	582	648	702	718
Romania	30	35	46	94	118	123	140	141	139	139
Serbia	2	4	4	5	5	10	13	17	24	24
Slovakia	195	213	214	237	242	253	246	243	226	226
Slovenia	54	59	59	62	63	60	62	60	60	66
Spain	884	970	994	1 017	1 018	1 018	1 023	1 037	1 121	1 132
Sweden	4 215	4 348	4 013	4 483	4 716	4 850	4 822	5 021	5 299	5 299
Switzerland	207	232	232	229	240	241	242	243	243	243
UK	3 204	3 117	3 791	4 254	4 808	5 251	5 514	6 997	7 165	7 250
Ukraine	4	13	31	50	53	60	73	98	180	212
European Union (28)	28 248	29 723	31 009	32 681	34 066	35 122	36 494	39 332	40 631	41 791
Middle East	65	67	72	80	101	108	108	108	108	108
Iran IR	7	7	7	12	12	12	12	12	12	12
Israel	10	10	14	17	28	28	28	28	28	28
Jordan	4	4	4	4	13	13	13	13	13	13
Lebanon		2	2	2	2	9	9	9	9	9
Palestine						0	0	0	0	0
Qatar	38	38	38	38	38	38	38	38	38	38
Syrian AR	7	7	7	7	7	7	7	7	7	7
United Arab Em			1	1	1	1	1	1	1	1
N America	12 511	13 279	14 312	15 030	16 109	16 219	17 194	17 192	16 835	16 765
Canada	1 642	1 617	1 512	2 005	2 417	2 437	3 335	3 375	3 376	3 383
Mexico	382	445	516	606	723	879	1 022	1 105	1 010	1 010
USA	10 487	11 218	12 284	12 419	12 969	12 903	12 838	12 712	12 450	12 372
Oceania	1 004	1 009	1 001	1 012	1 013	1 047	1 058	1 058	1 069	1 080
Australia	826	827	817	824	826	864	864	864	875	886
Fiji	42	42	42	42	42	42	54	54	54	54
New Caledon	0	0	0	0	0	0	0	0	0	0
New Zealand	118	120	120	124	123	119	119	119	119	119
Papua N Guin	15	16	18	18	18	18	18	18	18	18
Solomon Is	1	1	1	1	1	1	1	1	1	1
Vanuatu	3	3	3	3	3	3	3	3	3	3
S America	10 549	11 807	14 178	14 662	15 236	16 060	16 587	16 879	17 484	17 755
Argentina	221	249	256	244	252	203	248	250	298	310
Bolivia	85	85	85	126	134	142	142	160	174	174
Brazil	9 028	9 922	11 601	12 343	13 311	14 187	14 578	14 819	15 357	15 650
Chile	567	859	1 267	926	466	463	466	467	502	466
Colombia	180	182	187	215	237	255	310	320	320	320
Ecuador	101	101	101	144	144	146	152	152	152	152
Fr Guiana	2	2	2	2	2	2	2	2	5	5
Guyana	51	51	51	51	51	42	42	42	42	42
Paraguay	0	0	39	39	39	39	39	39	22	22
Peru	70	111	175	159	175	156	183	202	186	188
Suriname					2	2	2	2	2	2
Uruguay	243	243	413	414	424	424	424	424	425	425



# Solid biofuels and renewable waste

## Biocombustibles sólides et déchets renouvelables

## Biocombustibles sólidos y residuos renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	58 406	61 433	67 850	72 643	78 567	85 446	89 918	95 997	101 235	102 852
Africa	1 063	1 170	1 242	1 342	1 429	1 456	1 530	1 616	1 657	1 657
Angola				51 e	51 e	51 e	51 e	51 e	51 e	51 e
Burundi	4 e	4 e	4 o	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Congo DR	0 e	0 e	0 e	0 e	0 e	0 e	2 e	3 e	3 e	3 e
Egypt	67	67	67	67	67	67	67	67	67	67 e
Eswatini	123	123	123	106	106	106 e	106 e	106 e	106 e	106 e
Ethiopia	20 o	20 o	71 o	71 o	119 o	145 o	205 o	290 o	290 e	290
Ghana	7 e	7 e	7 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e
Kenya	67 e	67 e	67 e	67 e	85 e	85 e	85 e	85 e	85 e	85 e
Madagascar	0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e	0 e	0 e
Malawi	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e
Mali	32 e	32 e	32 o	40 e	40 e	40 e	40 u	40 e	40 e	40 e
Mauritius	84 o	84 o	84 o	84 o	94 o	94 o	94 o	94 o	94 e	94 e
Mozambique	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e
Namibia	0	0	0	0	0	0 e	0 e	0 e	0	0 e
Nigeria	6 u	6 u	8 u	9 u	9 u	10 u	10 u	10 u	10 e	10 e
Reunion	42 e	42 e	42 e	42 e	42 e	42 e	42 e	42 e	83 u	83 e
Rwanda	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Senegal	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e
Sierra Leone				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	95 e	199 u	199 e	199 e	199 e	199 e	199 e	199 e	199 e	199 e
Tanzania	63 o	66 o	66 o	70 o	70 o	70 o	70 e	70 e	70 e	70 e
Uganda	16 o	16 o	36 o	54 o	65 o	65 o	76 o	76 o	76 o	76 u
Zambia	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e
Zimbabwe	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 e	100 e
Asia	14 784	15 728	17 868	19 987	23 215	28 408	31 061	34 493	38 365	38 901
Bangladesh					0 o	0 o	0 o	0 e	0 o	0 o
Cambodia	7 o	34 o	26 o	34 o	31 o	29 o	49 o	49 o	49 e	49 e
China	3 727	4 479	5 896	6 343	7 646	8 920	10 780	12 605	15 738	17 784 o
Chinese Taipei	394	396 o	396 o	396 o	393 o	393 o	393 o	395 o	391 o	393 o
India	3 675 o	3 925 o	4 175 o	5 023 o	5 469 o	8 885 o	9 405 o	10 124 o	10 212 o	10 518 o
Indonesia	1 941 o	1 961 o	1 683 o	1 709 o	1 679 o	1 711 o	1 748 o	1 766 e	1 771 e	1 775 e
Japan	1 774	1 468	1 504	1 615	1 878	2 179	2 561	2 746 o	3 150 o	1 470 o
Korea Rep	87	89	93	124	759 o	803 o	945 o	959 o	1 077 o	822 o
Lao PDR			40 o	40 o	40 o	40 o	40 e	40 e	40 e	40 e
Malaysia	766 o	755 o	1 030 o	1 413 o	1 544 o	1 478 o	748 o	755 e	795 e	798 e
Maldives									0 o	0 e
Myanmar	0 e	0 e	0 e	0 e	0 e	0 e	3 e	3 e	3 e	3 e
Pakistan	254 e	254 e	260 e	316 e	324 e	365 e	365 e	423 e	423 e	423 o
Philippines	81 o	100 o	100 o	112 o	202 o	219 o	235 o	287 o	339 o	339 o
Singapore	128 o	128 o	160 e	183 e	205 e	210 e	211 e	219 e	219 e	219 e
Sri Lanka	12 o	12 o	13 o	26 o	26 o	30 o	40 o	51 o	54 e	54 e
Thailand	1 816	2 003	2 369	2 518	2 858	2 960	3 349 o	3 691 o	3 725 o	3 835 o
Viet Nam	125 e	125 e	125 e	136 e	161 e	186 e	190 e	378 e	378 e	378 e
C America + Carib	1 500	1 633	1 725	1 948	2 028	2 318	2 410	2 532	2 808	2 913
Aruba				2	2	2	2	2	2	2 e
Belize	28	28	28	28	28	44	52 u	52 e	42	42 e
Costa Rica	30	30	34	34	34	40	45	57 o	76 o	76 e
Cuba	544	519	470	498	530 o	495 o	532 e	554 e	841 e	951 e
Dominican Rep	15 e	15 e	15 e	15 e	15 e	45 e	45 e	45 e	45 e	45 e
El Salvador	195	252	263	298	195	252	263	298	298	294 o
Guadeloupe	31	31	31	31	31	31	31 u	31 e	31 e	31 e
Guatemala	384	473	597	713	869	1 053 o	1 084 o	1 096 o	1 029 o	1 029 o
Honduras	88	88	88	129	129	121	121	121	126	126 e
Jamaica	32	32	32	32	32	32	32	32 e	32 e	32 e
Martinique	4	4	4	4	4	4	4	44 e	44 e	44 e
Nicaragua	122	134 o	134 o	134 o	134 o	177	177	177 o	218 o	218 o
Panama	28	28	30	30	27	24	25 o	25 e	25 e	25 e
Eurasia	1 207	1 207	1 244	1 417	1 419	1 462	1 498	1 544	1 844	1 947
Azerbaijan			37	37	37	37 e	42	44 o	44 e	44
Russian Fed	1 197 e	1 197 e	1 197 e	1 370 e	1 370 e	1 370 e	1 373 e	1 370 o	1 370 e	1 370
Turkey	10	10	10	10	12	55	83	130	430 o	533 o
Europe	18 348	18 534	19 325	20 458	21 348	21 963	22 920	25 080	25 649	26 303
Albania							1 u	1 u	1 u	1 e
Andorra	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 e
Austria	1 870 e	1 393 e	1 307 e	1 221 e	1 202 e	1 188 e	1 108 e	1 094 o	1 085 e	1 085 e
Belarus	13	13	13	13	13	13	13	16	16	16
Belgium	821	790	764	681	716	691 e	685	652	665 o	591 e
Bosnia Herzg								0	1	1 o
Bulgaria	6	14	30	30	34	19	23	33 e	24 e	24 o
Croatia	6	7	7	8	25	26	42	65	76	89 o
Czechia	328 e	353 e	329 e	378 e	403 e	404 e	430 e	413 e	462 e	472 e
Denmark	1 068 e	1 296 e	1 085 e	1 152 e	1 139 e	1 198 e	1 683 e	1 666 e	1 865 e	1 990 e
Estonia	145	163	255	270	270	270	270 e	250	265	265 o
Finland	1 835 e	1 822 e	1 864 e	1 877 e	1 885 e	1 895 e	2 114 e	2 114 o	2 111	2 481 o
France	752	794	889	900	920	1 034	1 052	1 268	1 318	1 339 e

# Solid biofuels and renewable waste

## Biocombustibles sólidos et déchets renouvelables

## Biocombustibles sólidos y residuos renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Germany	2 297	2 273 o	2 550 o	2 526 o	2 551 e	2 576 e	2 602 e	2 662 e	2 686 e	2 674 e
Greece					2 e	2 e	3 e	12	13	13 o
Hungary	455	278	265	486	447	351	379	408	397	397 o
Ireland	5 e	13 e	13 e	16 e	16 e	16 e	47 e	47 e	48	48 o
Italy	792	915	1 024	1 033	1 031	1 094	1 092	1 145	1 124	1 174 e
Latvia	5	23	55	63	66	81	94	73	97 e	97 e
Lithuania	18	38	48	51	50	47	54	69	69 o	82 o
Luxembourg	10	10	13	12	13	13	23	24 e	44 e	44 o
Netherlands	457	497	539	515	543	548	551 e	622	621	624 e
North Macedonia								1 o	2 o	2 o
Norway	123	123	123	123	123	77	77 e	77 e	74 u	74 e
Poland	175	455	582	629	745	749	738	778	777	797 e
Portugal	516 e	517 e	496 e	495 e	511 e	519 e	512 o	577 e	630 e	646 e
Romania	26	30	35	79	104	107	119	119	119	119 o
Serbia									2	2 e
Slovakia	174	172	179	159	151	160	155	154	144 e	144 e
Slovenia	33	30	30	30	30	30	33	32	34	40 o
Spain	675	752	774	794	794	794	798 o	797	844 o	855 o
Sweden	3 683 e	3 815 e	3 460 e	3 959 e	4 138 e	4 333 e	4 273 e	4 484 e	4 402 e	4 402 e
Switzerland	175	199	199	197	211	212	212 e	212 o	211 o	211 e
UK	1 878	1 742	2 377	2 723	3 180	3 477	3 695	5 161	5 333	5 393 o
Ukraine	4	6	17	35	35	39	39 o	52 o	87	109
European Union (28)	18 107	18 267	19 047	20 164	21 040	21 696	22 652	24 835	25 413	26 044
Middle East	33	33	33	33	33	33	33	33	33	33
Israel	3	3	3	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Qatar	30 u	30 u	30 u	30 u	30 u	30 u	30 u	30 e	30 e	30 e
N America	10 382	10 818	11 732	12 328	13 430	13 490	13 429	13 411	13 088	13 087
Canada	1 512	1 501	1 396	1 889	2 301	2 321	2 320	2 360 e	2 360 e	2 360 e
Mexico	351	406	478	569	685	796 e	853 o	888 o	811 e	811 o
USA	8 519	8 912	9 858	9 870	10 444	10 373	10 257	10 163 o	9 917 o	9 916 o
Oceania	729	729	729	730	730	806	818	818	818	822
Australia	597	597	597	598	598	674 o	674 e	674 e	674 e	678 e
Fiji	42 u	42 u	42 u	42 u	42 u	42 u	54 u	54 u	54 e	54 e
New Zealand	75	75	75	75	75	75	75	75	75 o	75 o
Papua N Guin	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 e	15 e
Solomon Is	1 e	1 e	1 e	1 e	1 u	1 u	1 u	1 u	1 e	1 e
S America	10 361	11 581	13 951	14 400	14 935	15 509	16 220	16 469	16 973	17 189
Argentina	221 e	233 e	240 e	227 e	235 e	187 e	227 e	228 e	254 e	255 e
Bolivia	85 o	85 o	85 o	126 o	134 o	142 o	142 o	160 o	169 o	169 e
Brazil	8 865	9 746	11 424	12 145	13 088 o	13 722 e	14 311 o	14 512 o	14 981 o	15 228 o
Chile	548 e	832 e	1 240 e	884 e	417 e	410 e	410 e	410 e	442 o	410 o
Colombia	180 u	182 u	187 u	215 u	237 u	253 u	306 u	316 u	316 e	316 e
Ecuador	101 o	101 o	101 o	144 o	144 o	144 o	144 e	144 e	144 o	144 o
Fr Guiana	2	2	2	2	2	2	2	2 e	5 o	5 e
Guyana	51	51	51	51	51	42	42	42	42	42 e
Paraguay			39	39	39	39	39	39 e	20 e	20 e
Peru	65	106	170	154	165	146	173	192 o	175	175 e
Suriname					2	2	2	2 e	2 e	2 e
Uruguay	242	242	412	412	422	422	422	422	423 e	423 o

# Bagasse Bagasse Bagazo

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	11 707	12 910	14 665	15 683	16 802	17 642	18 258	18 988	19 601	19 908
Africa	1 020	1 124	1 194	1 303	1 390	1 416	1 488	1 548	1 589	1 589
Angola				51 e	51 e	51 e	51 e	51 e	51 e	51 e
Burundi	4 e	4 e	4 o	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Egypt	67	67	67	67	67	67	67	67	67	67 e
Eswatini	106	106	106	106	106	106 e	106 e	106 e	106 e	106 e
Ethiopia	20 o	20 o	71 o	71 o	119 o	145 o	205 o	265 o	265 o	265
Kenya	67 e	67 e	67 e	67 e	85 e	85 e	85 e	85 e	85 e	85 e
Malawi	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e	12 e
Mali	32 e	32 e	32 o	40 e	40 e	40 e	40 u	40 e	40 e	40 e
Mauritius	84 o	84 o	84 o	84 o	94 o	94 o	94 o	94 o	94 e	94 e
Mozambique	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e
Nigeria	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 u	5 e	5 e
Reunion	42 e	42 e	42 e	42 e	42 e	42 e	42 e	42 e	83 u	83 e
Rwanda	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Senegal	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e
Sierra Leone				32 u	32 e	32 e	32 e	32 e	32 e	32 e
South Africa	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e
Sudan	95 e	199 u	199 e	199 e	199 e	199 e	199 e	199 e	199 e	199 e
Tanzania	46 o	46 o	46 o	46 o	46 o	46 o	46 e	46 e	46 e	46 e
Uganda	16 o	16 o	36 o	54 o	65 o	65 o	76 o	76 o	76 o	76 u
Zambia	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e
Zimbabwe	100	100	100	100	100 e	100 e	100 e	100 e	100 e	100 e
Asia	651	686	734	797	887	923	943	1 227	1 251	1 251
Cambodia		16 o	16 o	16 o	16 o	16 o	36 o	36 o	36 e	36 e
Indonesia	200 o	200 o	208 o	219 o	219 o	219 o	219 o	219 o	219 e	219 e
Lao PDR		40 o	40 o	40 o	40 o	40 o	40 e	40 e	40 e	40 e
Pakistan	254 e	254 e	254 e	306 e	314 e	314 e	314 e	372 o	372 o	372 o
Philippines	73 o	92 o	92 o	92 o	149 o	161 o	161 o	208 o	233 o	233 o
Viet Nam	125 e	125 e	125 e	125 e	150 e	174 e	174 e	353 u	352 e	352 e
C America + Carib	1 493	1 627	1 717	1 936	2 017	2 307	2 394	2 516	2 792	2 896
Belize	28	28	28	28	28	44	52 u	52 e	42	42 e
Costa Rica	30	30	34	34	34	40	40	53 o	71 o	71 o
Cuba	544	519	470	498	529	494	531 e	553 e	841	950
Dominican Rep	14 o	14 o	14 o	14 o	14 o	44 o	44 o	44 e	44 e	44 e
El Salvador	195	252	263	298	195	252	263	298	298	294 o
Guadeloupe	30	30	30	30	30	30	30	30 e	30 e	30 e
Guatemala	384	473	594	711	867	1 050 o	1 081 o	1 094 o	1 026 o	1 026 o
Honduras	88	88	88	129	129	121	121	121	126	126 e
Jamaica	32	32	32	32	32	32	32	32 e	32 e	32 e
Martinique								40 u	40 e	40 e
Nicaragua	122	134 o	134 o	134 o	134 o	177	177	177 o	218 o	218 o
Panama	28	28	30	30	27	24	25 o	25 e	25 e	25 e
Europe					2	2	2	2	2	2
Portugal					2 e	2 e	2 o	2 o	2 e	2 e
European Union (28)	72	72	72	72	74	74	74	114	155	155
N America	320	323	424	527	660	771	827	865	791	791
Mexico	320	323	424	527	660	771 e	827 o	865 o	791 e	791 o
Oceania	453	453	453	453	453	529	529	529	529	533
Australia	424	424	424	424	424	500 o	500 o	500 o	500 e	504 o
Fiji	29 u	29 u	29 u	29 u	29 u	29 u	29 u	29 u	29 e	29 e
S America	7 769	8 696	10 143	10 667	11 393	11 694	12 074	12 301	12 646	12 846
Argentina	63 e	65 e	64 e	47 e	64 e	45 e	50 e	50 e	56 o	57 e
Bolivia	85 o	85 o	85 o	126 o	134 o	142 o	142 o	160 o	169 o	169 e
Brazil	7 213	8 095	9 435	9 881	10 549	10 874	11 168	11 348 o	11 714 o	11 913 o
Colombia	180 u	182 u	187 u	215 u	237 u	253 u	306 u	316 u	316 e	316 e
Ecuador	101 o	101 o	101 o	144 o	144 o	144 o	144 e	144 e	144 o	144 o
Guyana	51	51	51	51	51	42	42	42	42	42 e
Paraguay			39	39	39	39	39	39 e	20 e	20 e
Peru	65	106	170	154	165	146	173	192 o	175	175 e
Uruguay	10	10	10	10	10	10	10	10	10 e	10 o

# Renewable municipal waste

## Déchets municipaux renouvelables

## Residuos municipales renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	6 828	7 295	8 426	8 651	10 020	10 800	11 762	13 084	14 548	15 355
Africa								25	25	25
Ethiopia								25	25 e	25
Asia	2 246	2 626	3 206	3 479	4 490	4 991	5 835	6 974	8 180	8 917
China	1 131	1 144	1 700	1 893	2 342	2 870	3 640	4 575	6 009	6 790 o
Chinese Taipei	312 o	315 o	315 o	315 o	315 o	315 o	315 o	316 o	316 o	316 o
India	83 o	94 o	105 o	124 o	137 o	139 o	146 o	159 o	165 o	188 o
Indonesia	13 o	13 o	13 o	18 o	8 o	8 o	8 o	8 o	8 o	8 e
Japan	503	838	852	876	900	919	935	876 o	889 o	877 o
Korea Rep	41	43	38	50	514 o	450 o	451 o	558 o	314 o	239 o
Malaysia	9	9	9	9	16	16	16	22 o	22 e	22 o
Maldives									0 o	0 e
Myanmar							0 u	0 e	0 e	0 e
Singapore	128 o	128 o	128 o	128 o	128 o	128 o	128 o	128 o	128 o	128 o
Thailand	26	43	48	66	132	145	191	318 o	315 o	334 o
Viet Nam						1 u	5 u	15 e	15 e	15 e
C America + Carib	4	4	4	6	6	6	6	6	6	6
Aruba				2	2	2	2	2	2	2 e
Martinique	4	4	4	4	4	4	4	4 e	4 e	4 e
Eurasia			37	37	37	37	42	45	225	229
Azerbaijan			37	37	37	37 e	42	44 o	44 e	44
Turkey								1	181 o	185 o
Europe	3 408	3 492	3 993	3 942	4 291	4 568	4 683	4 841	4 934	4 999
Albania							1 u	1 u	1 u	1 e
Andorra	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 o	5 e
Austria	242	288	290	262	263	271	271	270	272	272 e
Belgium	120	112	124	124	124	125	125	125	126	126 o
Czechia	22	23	23	23	23	28	28 e	28 o	28	28 e
Denmark	147	140	166	163	166	166	182	181	179	179 o
Estonia			105	105	105	105	105 e	85	85	85 o
Finland	76 e	95 e	113 e	126 e	134 e	148 e	148 e	148 o	148	149 o
France	422	435	442	440	394	424	429	441	444	445 o
Germany	743	715	930	944	962	979	1 004	1 059	1 084	1 072 o
Hungary	19	18	18	19	25	29	23	23	23	23 o
Ireland		8	8	11	11	11	41	41	41	41 o
Italy	371	377	418	413	415	409	408	412	396	396 e
Lithuania			5	5	5	8	9	7	7 o	20 o
Luxembourg	10	10	10	9	9	9	9	9 e	9 e	9 o
Netherlands	325	325	325	325	325	325	325 e	400	389	389 e
Norway	44	44	44	44	44	50	50 e	50 e	47	47 e
Poland					8	22	30	43	45	45 e
Portugal	38	38	38	39	40	42	41	41	41 o	41 o
Slovakia	3	3	3	6	6	10	6	6	6 e	6 e
Spain	112	112	117	117	117	117	121	121	121 o	133 o
Sweden	286	293	340	230	438	564	567	566	568	568 o
Switzerland	175	199	199	197	211	212	212 e	212 o	211 o	211 e
UK	251	257	273	340	465	514	545	568	661	711 o
European Union (28)	3 189	3 248	3 749	3 701	4 035	4 306	4 419	4 577	4 674	4 739
Middle East	33	33	33	33	33	33	33	33	33	33
Israel	3	3	3	3 e	3 e	3 e	3 e	3 e	3 e	3 e
Qatar	30 u	30 u	30 u	30 u	30 u	30 u	30 u	30 e	30 e	30 e
N America	1 137	1 140	1 153	1 154	1 163	1 163	1 160	1 155	1 133	1 133
Canada	18	39	39	39	39	39	38	38 e	38 e	38 e
USA	1 119	1 102	1 114	1 115	1 124	1 124	1 123	1 118 o	1 095 o	1 095 o
S America						3	3	5	13	14
Brazil						3 o	3 o	5 o	13 o	14 o

# Other solid biofuels

## Autres biocarburants solides

### Otros biocombustibles sólidos

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	39 871	41 228	44 759	48 308	51 745	57 003	59 899	63 924	67 087	67 588
Africa	44	46	48	39	39	40	42	43	43	43
Congo DR	0 e	0 e	0 e	0 e	0 e	0 e	2 e	3 e	3 e	3 e
Eswatini	17	17	17							
Ghana	7 e	7 e	7 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e
Madagascar	0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e	0 e	0 e
Namibia	0	0	0	0	0	0 e	0 e	0 e	0 e	0 e
Nigeria	1 u	1 u	3 u	4 u	4 u	5 u	5 u	5 u	6 e	6 e
Sierra Leone				2 e	2 e	2 e	2 e	2 e	2 e	2 e
Tanzania	18 o	20 o	20 o	24 o	24 o	24 o	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 e	1 e
Asia	11 887	12 415	13 928	15 711	17 838	22 494	24 283	26 293	28 934	28 733
Bangladesh					0 o	0 o	0 o	0 e	0 o	0 o
Cambodia	7 o	18 o	10 o	18 o	15 o	13 o	13 o	13 o	13 e	13 e
China	2 596	3 336	4 196	4 450	5 304	6 050	7 140	8 030	9 729	10 994 o
Chinese Taipei	81 o	81 o	81 o	81 o	79 o	79 o	79 o	79 o	75 o	77 o
India	3 591 o	3 831 o	4 070 o	4 899 o	5 332 o	8 746 o	9 258 o	9 965 o	10 046 o	10 331 o
Indonesia	1 728 o	1 748 o	1 462 o	1 472 o	1 452 o	1 484 o	1 522 o	1 540 e	1 545 e	1 548 e
Japan	1 271	630	652	739	978	1 260	1 626	1 870 o	2 261 o	593 o
Korea Rep	46	46	55	74	245 o	353 o	494 o	402 o	764 o	583 o
Malaysia	757 o	746 o	1 022 o	1 404 o	1 528 o	1 462 o	732 o	734 e	774 e	776 e
Myanmar	0 e	0 e	0 e	0 e	0 e	0 e	3 e	3 e	3 e	3 e
Pakistan			6 e	10 e	10 e	51 e	51 e	51 e	51 e	51 o
Philippines	8 o	8 o	8 o	20 o	53 o	58 o	74 o	80 o	107 o	107 o
Singapore			32 e	55 e	77 e	82 e	83 e	91 e	91 e	91 e
Sri Lanka	12 o	12 o	13 o	26 o	26 o	30 o	40 o	51 o	54 e	54 e
Thailand	1 790	1 960	2 321	2 452	2 727	2 815	3 157 o	3 373 o	3 410 o	3 501 o
Viet Nam				11 u	11 u	11 u	11 u	11 u	11 e	11 e
C America + Carib	2	2	5	5	5	5	10	10	10	10
Costa Rica							5	5	5	5 e
Cuba				1	1 o	1 o	1 o	1 e	1 e	1 e
Dominican Rep	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Guadeloupe	1	1	1	1	1	1	1 u	1 e	1 e	1 e
Guatemala			3	3	3	3	3	3 o	3 o	3 o
Eurasia	1 207	1 207	1 207	1 380	1 382	1 425	1 456	1 499	1 619	1 719
Russian Fed	1 197 e	1 197 e	1 197 e	1 370 e	1 370 e	1 370 e	1 373 e	1 370 o	1 370 e	1 370
Turkey	10	10	10	10	12	55	83	129	249	349 o
Europe	14 940	15 042	15 332	16 516	17 054	17 393	18 235	20 237	20 713	21 301
Austria	1 628 e	1 105 e	1 017 e	959 e	939 e	917 e	838 e	824 o	813 e	813 e
Belarus	13	13	13	13	13	13	13	16	16	16
Belgium	701	678	640	558	591	566 e	559	526	539 o	465 e
Bosnia Herzg								0	1	1 o
Bulgaria	6	14	30	30	34	19	23	33 e	24 e	24 o
Croatia	6	7	7	8	25	26	42	65	76	89 o
Czechia	306 e	330 e	306 e	355 e	380 e	376 e	402 e	385 e	434 e	444 e
Denmark	921 e	1 156 e	919 e	989 e	973 e	1 032 e	1 501 e	1 485 e	1 687 e	1 812 e
Estonia	145	163	150	165	165	165	165	165	180	180 o
Finland	1 759	1 727	1 751	1 751	1 751	1 747	1 966	1 966	1 963	2 332 o
France	330	360	446	461	526	610	623	827	874	894 e
Germany	1 554	1 558 o	1 620 o	1 582 o	1 589 e	1 597 e	1 598 e	1 603 e	1 602 e	1 602 e
Greece					2 e	2 e	3 e	12	13	13 o
Hungary	436	260	247	467	422	322	356	385	374	374 o
Ireland	5 e	5 e	5 e	5 e	5 e	5 e	5 e	5 e	7	7 o
Italy	421	538	606	620	616	685	684	733	728	778 o
Latvia	5	23	55	63	66	81	94	73	97 e	97 e
Lithuania	18	38	43	46	45	39	45	62	62	62 o
Luxembourg			4	4	4	4	15	15	35	35 o
Netherlands	133	172	215	190	218	223	226	222	232	235 e
North Macedonia								1 o	2 o	2 o
Norway	79	79	79	79	79	27	27 e	27 e	27 u	27 e
Poland	175	455	582	629	737	727	709	735	732	752 o
Portugal	478 e	479 e	458 e	456 e	469 e	475 e	469 o	534 e	587 e	603 e
Romania	26	30	35	79	104	107	119	119	119	119 o
Serbia									2	2 e
Slovakia	171	169	176	153	145	150	149	148	138	138 e
Slovenia	33	30	30	30	30	30	33	32	34	40 o
Spain	563	640	657	677	677	677	677 o	677	723	722 o
Sweden	3 397 e	3 522 e	3 120 e	3 729 e	3 700 e	3 769 e	3 706 e	3 918 e	3 834 e	3 834 e
UK	1 627	1 485	2 104	2 383	2 715	2 963	3 150	4 593	4 673	4 682 o
Ukraine	4	6	17	35	35	39	39 o	52 o	87	109
European Union (28)	14 846	14 946	15 226	16 391	16 930	17 316	18 158	20 144	20 584	21 150
N America	8 925	9 355	10 155	10 647	11 608	11 557	11 442	11 390	11 164	11 163
Canada	1 494	1 462	1 357	1 850	2 262	2 282	2 282	2 322 e	2 322 e	2 322 e
Mexico	31	83	54	42	26	26	26	23 o	21 e	21 o
USA	7 400	7 810	8 744	8 755	9 320	9 249	9 134	9 046 o	8 822 o	8 821 o

## Other solid biofuels Autres biocarburants solides Otros biocombustibles sólidos

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Oceania	276	276	276	277	277	277	289	289	289	289
Australia	173	173	173	174	174	174	174 e	174 e	174 o	174 e
Fiji	12 u	12 u	12 u	12 u	12 u	12 u	24 u	24 u	24 e	24 e
New Zealand	75	75	75	75	75	75	75	75	75 o	75 o
Papua N Guin	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 e	15 e
Solomon Is	1 e	1 e	1 e	1 e	1 u	1 u	1 u	1 u	1 e	1 e
S America	2 591	2 884	3 808	3 733	3 542	3 812	4 143	4 163	4 314	4 329
Argentina	157 e	167 e	175 e	181 e	171 e	141 e	177 e	178 e	198 e	198 e
Brazil	1 652	1 651	1 989	2 264	2 539 o	2 846 e	3 141 o	3 159 o	3 255 o	3 301 o
Chile	548 e	832 e	1 240 e	884 e	417 e	410 e	410 e	410 e	442 o	410 o
Colombia							0 o	0 o		
Fr Guiana	2	2	2	2	2	2	2	2 e	5 o	5 e
Guyana					0	0	0	1	1	1 e
Suriname					2	2	2	2 e	2 e	2 e
Uruguay	232	232	402	402	412	412	412	412	413 e	413 o

# Liquid biofuels

## Biocarburants liquides

## Biocarburantes líquidos

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	1 907	2 066	2 041	2 338	2 419	2 322	3 233	3 218	3 555	3 555
Africa			0	0	0	0	0	0	0	0
Burkina Faso			0 u	0 u	0 u	0 e	0 e	0 e	0 e	0 e
Tanzania				0 u	0 e	0 e	0 e	0 e	0 e	0 e
Asia				356	361	360	359	359	359	359
Korea Rep				356	361	360	359	359 o	359 o	359 o
Eurasia				7	7	7	12	19	19	19
Turkey				7	7	7	12	19	19	19 e
Europe	1 716	1 855	1 879	1 797	1 865	1 792	1 813	1 791	2 128	2 128
Austria	7	6	6	1	3	3	1	1	1	1 e
Belgium	81	55	50	51	49	45	45	45	45 e	45 e
Denmark			7		1	0	1	1	0 e	0 o
France					3	4	0	0	0	0 e
Germany	345	277	263	232	232	231	230	230	231	231 e
Italy	738	989	1 003	990	1 000	993 e	987	971	948	948 e
Netherlands	17									
Poland	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Slovenia			1	1	1	1	1	1	1 o	1 e
Spain								6	6 e	6 e
Sweden	528 e	528	548	522	576	515	547	535	895	895 e
European Union (28)	1 716	1 855	1 879	1 797	1 865	1 792	1 813	1 791	2 128	2 128
N America	183	204	155	155	155	155	1 041	1 041	1 041	1 041
Canada							876	876 e	876 e	876 e
USA	183	204	155	155	155	155 o	165	165 o	165 o	165 e
Oceania	3	3	3	3	3	3	3	3	3	3
Fiji	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e
New Caledon	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 o	0 e	0 e
Solomon Is				0 e	0 e	0 e	0 e	0 e	0 e	0 e
Vanuatu	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e	3 e
S America	4	4	4	19	27	4	5	5	5	5
Brazil	4	4	4	19	27	4 o	5 o	5 o	5 o	5 o

# Biogas Biogaz Biogás

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	11 432	13 118	13 964	15 000	15 685	16 686	17 353	18 420	19 285	20 150
Africa	10	10	11	11	22	30	34	39	50	52
Burkina Faso					1 o	1 o	1 o	1 e	1 e	1 e
Egypt									12 o	12 e
Gabon					1 e	1 e	1 e	1 e	1 e	1 e
Ghana					0 o	0 o	0 e	0 o	0 e	0 e
Kenya	0 e	0 e	0 e	0 e	3 e	3 e	3 e	3 e	3 e	3 e
Mauritius	2	2	3	3	3	3 o	3 e	3 e	3 e	3 e
Morocco	1 o	1 o	1 o	1 o	1 o	2 o	2 o	2 o	2 e	2 e
Nigeria						0 u	0 u	0 u	0 e	0 e
Reunion	2 o	2 o	2 o	2 o	3 o	4 o	4 e	4 o	4 e	4 e
South Africa	4 u	4 e	4 e	4 e	9 e	14 e	18 e	23 u	23 e	24 e
Tanzania	1 o	1 o	1 o	1 o	1 o	1 u	1 e	1 e	1 e	1 e
Asia	408	509	650	846	988	1161	1358	1599	1838	1957
Bangladesh	2 o	3 o	3 o	4 o	4 o	5 o	5 o	5 o	5 o	5 o
Cambodia					2 e	2 e	2 e	2 e	2 e	2 e
China	81	138	193	310	331	350	454	630	799	903 o
Chinese Taipei					1 o	1 o	1 o	1 e	1 o	1 o
India	3 o	4 o	6 o	7 o	10 o	10 o	13 e	14 e	14 e	14 e
Indonesia	9 o	9 o	18 o	19 o	55 o	64 e	101 e	109 e	112 o	112 e
Japan	6	7	10	15	23	34	47	47 o	47 o	47 e
Kazakhstan			0	0	0	0	1 o	1 o	2 e	8
Korea Rep	107	108	99	121	113	129	136 o	136 o	136 o	136 o
Malaysia	8 o	12 o	14 o	18 o	36 o	80 o	70 o	84 o	124 e	134 o
Myanmar	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Pakistan	9	9	9	9	9	9	9	9 e	9 e	9 e
Philippines	23 u	24 u	31 e	31 e	31 e	40 e	42 e	54 e	54 o	29 o
Sri Lanka					0 o	0 o	0 o	0 o	0 e	0 e
Thailand	159	193	266	312	373	435	475	505 o	530 o	554 o
Viet Nam						2 e	2 e	2 e	2 e	2 e
C America + Carib	10	11	13	12	21	30	34	38	39	39
Costa Rica	4	4	4	2	3	3	3	3 o	4	5
Cuba				1 e	1 e	1 e	1 e	1 e	1 e	1 e
Dominican Rep	0 o	1 o	1 o	1 o	2 o	2 o	2 o	2 e	2 e	2 e
El Salvador	6	6	6	6	7	7	7	7	7	5 o
Guadeloupe		0	0	0	0	0	0	5 o	5 o	5 o
Guatemala			1	1	4	4	7	7 o	7 o	7 o
Honduras				0 e	0 e	0 e	0 e	0 e	0 e	0 e
Martinique					1	1 o	1 o	1 o	1 e	1 o
Panama						8	8 o	8 e	8 o	8 e
Puerto Rico					5	5	5	5 e	5 o	5 e
Eurasia	90	133	162	204	253	298	378	440	535	749
Armenia	1	1								
Azerbaijan					1	1	1	1 o	1 e	1
Turkey	89	132	162	204	252	297	377	438	534 e	748 o
Europe	8 479	9 666	10 173	10 812	11 256	11 734	12 152	12 847	13 287	13 826
Austria	372 e	273 e	194 e	189 e	191 e	202 e	180 e	175 o	164 e	164 e
Belarus	6	6	22	22	22	27	28	33 o	38 e	39
Belgium	129	141	151	181	179	188	183	190	197	197 e
Bosnia Herzg						1 u	1 e	1	2	2 o
Bulgaria	5		4	10	20	38	29	36 e	33 e	33 o
Croatia	9	12	17	17	28	37 o	45 o	51 o	52 e	55 o
Cyprus	9	9	10	10	10	10	10 e	13 e	13 e	13 o
Czechia	177	300 o	361 o	367 o	368 o	369 o	372 o	369 o	368 e	368 e
Denmark	77	80 e	93 e	96 e	104 e	107 e	108 e	108 e	119 e	144 e
Estonia	4 e	4 e	6 e	8 e	11 e	11 e	11 e	9 e	8 e	8 e
Faroe Islands										0 o
Finland	45 e	46 e	88 e	100 e	102 e	113	116	116	116	116 o
France	213	256	298	342	383	409	444	465	500	511 o
Germany	4 520 o	4 921 o	5 148 o	5 437 o	5 643 o	5 850 o	6 147 o	6 761 e	7 068 e	7 459 e
Greece	45 u	45 u	46 u	47 u	49 u	56 u	62 u	70 u	75 e	82 e
Hungary	45	53	63	63	72	76	82	79	79	79 o
Ireland	39 o	44 o	52 o	53 o	53 o	56 o	56 o	57	59 e	59 o
Italy	732	1 274	1 317	1 336	1 336	1 352	1 372	1 375	1 382	1 432 o
Latvia	25 e	43 e	53 e	58 e	60 e	62 e	60	61	61 e	61 e
Lithuania	15	15	16	20	21	25 e	25 e	35 o	35 e	36 e
Luxembourg	10	10	10	10	12	12	12 e	12 e	12 e	12 o
Malta	3	3	3	3	3	5	5	5 e	5 e	5 e
Moldova Rep			2	3	3	3	6	6	6 e	6
Netherlands	217 e	219 e	230 e	237 e	239 e	221 e	221 e	205 e	199 e	202 e
North Macedonia					4	5	7	7 o	8	8 o
Norway	17	17	17	17	17	10	10 e	10 e	7	7 e
Poland	102 o	128 o	153 o	187 o	216 o	225 o	229 e	225 e	233 e	243 e
Portugal	44	51	55	66	66	68 e	70 o	71 o	72 e	72 e
Romania	4	5	11	15	14	16	22	22	20	20 o
Serbia	2	4	4	5	5	10	13	17	21	21 e
Slovakia	21	41	35	78	91	93	91	89	82	82 e
Slovenia	21	29	28	31	32	29	27	27	25	25 e
Spain	209	218	220	223	224	224	225	234	271	271 e
Sweden	4 e	5 e	5 e	2 e	2 e	2 e	2 e	2 o	2 e	2 e



# Biogas Biogaz Biogás

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Switzerland	32	33	33	32	29	29 o	30	32 o	32 e	32 e
UK	1 326 o	1 375 o	1 414 o	1 531 o	1 628 o	1 774 o	1 819	1 836	1 832	1 858 o
Ukraine		7 o	14 o	15 o	18 o	21 o	34 o	46 o	93	103
European Union (28)	8 424	9 601	10 083	10 719	11 162	11 634	12 029	12 706	13 090	13 619
Middle East	32	34	39	47	67	74	75	75	75	75
Iran IR	7	7	7	12	12	12	12	12 o	12 e	12 e
Israel	7 e	7 e	11 e	14 e	25 e	25 e	25 e	25 e	25 e	25 e
Jordan	4 o	4 o	4 o	4 o	13 u	13 u	13 e	13 e	13 e	13 e
Lebanon		2 u	2 u	2 u	2 u	9 e	9 e	9 e	9 e	9 e
Palestine						0	0	0 e	0 e	0 e
Qatar	8 u	8 u	8 u	8 u	8 u	8 u	8 u	8 e	8 e	8 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 o	1 o	1 e	1 u	1 u
N America	1 946	2 257	2 425	2 547	2 524	2 574	2 724	2 740	2 706	2 637
Canada	130	116	116	116	116	116	139	139 e	140 o	147 o
Mexico	31	39	38	37	38	83 o	169 o	217 o	199 e	199
USA	1 785	2 102	2 271	2 394	2 370	2 375	2 416	2 384 o	2 368 o	2 291 o
Oceania	272	277	269	279	280	238	237	237	248	255
Australia	229	230	220	226	228	190 o	190 o	190 o	201 o	208 o
New Zealand	43	45	45	49	48	44	43 o	43 o	43 o	43 e
Papua N Guin		2 u	4 u	4 u	4 u	4 u	4 u	4 u	4 e	4 e
S America	184	222	223	244	274	547	363	405	506	561
Argentina		17 o	17 o	17 o	17 o	17 o	21 o	23 o	44 o	55 e
Bolivia									5 o	5 o
Brazil	159	172	173	178 o	196 o	461 o	262 o	302 o	372 o	417 o
Chile	19	27	27	42	49	53	56 o	57 o	60 o	55 o
Colombia						2	4	4 o	4 o	4 o
Ecuador						2 o	7 o	7 o	7 o	7 o
Paraguay	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	2 o	2 e
Peru	5	5	5	5	10	10	10	11 o	10	13 o
Uruguay	1	1	1	2	2	2	2	2 e	2 e	2 o

# Geothermal energy

## Énergie géothermique

## Energía geotérmica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	10 134	10 481	10 718	11 159	11 799	12 122	12 677	13 241	13 886	14 050
Africa	205	213	213	373	611	645	655	671	831	831
Ethiopia	7	7	7	7	7	7	7	7 e	7 o	7
Kenya	198 o	206 o	206 o	366 o	604 o	638 o	648 o	664 o	824 u	824 e
Asia	3 636	3 721	3 728	3 854	3 896	4 001	4 231	4 384	4 584	4 584
China	26	26	26	26	26	26	26	26		
Chinese Taipei								0 o	0 o	0 o
Indonesia	1 226 o	1 336 o	1 344 o	1 404 o	1 438 o	1 533 o	1 808 o	1 948 o	2 131 o	2 131 o
Japan	537	512	512	508	516	526	481	482 o	525 u	525 o
Philippines	1 847 o	1 847 o	1 847 o	1 916 o	1 916 o	1 916 o	1 916 o	1 928 o	1 928 o	1 928 o
Thailand	0	0	0	0	0	0	0	0 e	0 o	0 o
C America + Carib	579	656	641	637	640	629	665	665	722	723
Costa Rica	218	218	218	218	217	207	207	207 o	262 o	262 o
El Salvador	204	204	204	204	204	204	204	204 o	204 o	204 o
Guadeloupe	15	15	15	12	15	15	15 u	15 e	15 o	15 e
Guatemala	54	54	49	49	49	49	49	49 o	52 o	49 o
Honduras							35 o	35 o	35 o	39 o
Nicaragua	88	165	155	155	155	155	155	155 o	153 o	153 o
Eurasia	195	243	390	483	702	899	1 138	1 357	1 589	1 687
Russian Fed	81	81	79	78	78	78	74	74	74 e	74
Turkey	114	162	311	405	624	821	1 064 o	1 283	1 515	1 613 o
Europe	1 441	1 450	1 462	1 504	1 504	1 506	1 558	1 617	1 622	1 652
Austria	1	1	1	1	1	1	1	1	1 e	1 o
Croatia								10	10 o	10 o
France	16	15	16	16	16	16	16	16 e	16 e	16 e
Germany	6	16	26	29	29	33	32	35	40	40 e
Hungary							3 u	3 e	3	3 o
Iceland	665	665	665	665	665	665	710	756	756	756 e
Italy	728	728	729	768	768	767	767	767 e	767	797 o
Portugal	25	25	25	25	25	25	29	29	29 o	29 o
Romania				0 o	0 o	0 o	0 o	0	0 u	0 o
European Union (28)	791	800	812	851	854	856	863	876	881	911
N America	3 296	3 416	3 430	3 327	3 448	3 443	3 409	3 491	3 491	3 493
Mexico	887	824	823	813	906	926	926 o	951 o	936 o	906 o
USA	2 409	2 592	2 607	2 514	2 542	2 517	2 483	2 541 o	2 555 o	2 587 o
Oceania	782	782	854	980	997	997	997	1 008	1 008	1 040
Australia	0	0	0	0	0	0	0 e		0 u	0 e
New Zealand	726	726	798	924	941	941	941	952 o	952 o	984 o
Papua N Guin	56 u	56 u	56 u	56 u	56 u	56 u	56 u	56 u	56 e	56 e
S America							24	48	40	40
Chile							24 o	48	40 o	40 o

Off-grid capacity

Capacité hors réseau

Capacidad fuera de la red

# Total renewable energy

## Total énergies renouvelables

### Total energías renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	4 616.683	5 039.423	5 484.443	6 481.360	7 196.681	7 842.750	7 876.078	9 720.755	10 264.283	10 628.314
Africa	336.937	392.011	435.353	523.308	673.582	915.668	1 175.276	1 319.345	1 369.211	1 416.680
Algeria				11.300	59.300	229.300	410.200	433.000	433.000	433.000
Angola	13.377	15.263	16.458	18.821	19.726	20.236	20.236	20.236	20.236	20.236
Benin						1.500	1.500	1.500	1.500	1.540
Botswana	0.169	0.315	0.415	0.560	0.853	1.925	2.047	2.558	2.558	2.594
Burkina Faso	5.800	5.800	6.450	7.150	8.150	10.150	12.150	27.150	29.650	29.650
Burundi	6.403	6.803	7.803	8.003	8.303	9.303	10.303	10.303	10.303	10.303
Cabo Verde		0.074	0.151	0.305	0.618	0.674	0.735	0.801	0.846	0.846
Cameroon	2.700	3.100	3.900	5.900	7.700	9.300	11.896	14.492	14.492	14.617
Cent Afr Rep	0.400	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.516	0.516
Chad	0.002	0.003	0.050	0.050	0.172	1.273	1.273	1.290	1.290	1.290
Congo DR	97.183	97.247	98.349	98.568	111.732	114.297	129.095	154.587	164.487	174.387
Congo Rep	0.070	0.120	0.230	0.460	0.460	0.460	0.570	0.720	0.720	0.720
Cote d'Ivoire	1.667	1.973	2.908	3.834	5.059	5.059	8.278	13.144	13.144	13.144
Djibouti		0.300	0.300	0.300	0.300	0.362	0.362	0.362	0.362	0.362
Egypt	15.000	15.000	15.000	15.000	25.000	30.000	30.000	44.200	44.200	44.200
Eq Guinea										0.076
Eritrea	0.830	0.848	0.860	8.684	8.684	9.034	11.034	18.534	20.784	23.034
Eswatini	2.435	2.461	2.478	2.540	2.504	2.504	2.504	2.504	2.504	2.504
Ethiopia	10.614	11.427	13.623	19.410	28.169	32.325	30.779	30.631	30.631	38.469
Gabon	1.600	1.600	1.600	1.600	2.800	2.887	2.887	2.887	2.887	2.887
Gambia	1.859	1.991	1.995	2.000	2.000	2.000	2.002	2.002	2.002	2.002
Ghana	6.774	6.774	6.774	9.624	13.914	15.152	15.888	15.892	16.292	16.292
Guinea	2.820	2.820	5.591	5.591	15.493	15.499	15.499	15.503	15.503	15.503
Guinea Bissau					0.312	0.312	0.312	1.169	1.169	1.169
Kenya	6.604	8.573	12.431	22.024	36.107	37.626	45.203	56.507	56.507	56.591
Lesotho	0.180	0.180	0.343	0.343	0.343	0.343	0.343	0.343	0.343	0.343
Liberia	4.005	4.040	4.040	4.040	4.057	4.059	6.406	6.583	6.583	6.583
Libya	4.200	4.900	4.900	4.900	4.900	4.900	5.110	5.110	5.110	5.110
Madagascar	5.780	6.450	8.985	11.630	14.660	16.660	18.760	19.125	19.995	22.895
Malawi	3.155	4.081	5.965	8.234	12.657	12.957	20.037	23.577	23.877	25.177
Mali	41.857	47.741	47.741	56.150	57.178	57.571	59.252	59.252	59.297	59.542
Mauritania			7.400	7.551	7.566	24.166	24.166	25.466	25.609	25.609
Morocco	19.000	20.000	20.000	23.800	23.800	25.870	27.895	27.895	27.903	27.903
Mozambique	0.500	1.575	5.175	7.900	11.060	14.060	16.060	16.060	16.060	16.060
Namibia	7.350	10.702	13.402	14.178	14.178	14.187	14.187	21.940	23.880	23.880
Niger	3.000	4.000	5.000	6.000	7.000	8.000	9.041	20.041	20.041	20.041
Nigeria	8.200	23.400	25.100	27.800	29.600	31.030	31.230	31.395	40.374	40.843
Reunion										1.340
Rwanda	0.802	1.359	2.538	3.081	7.007	12.231	17.426	21.146	21.146	21.146
Sao Tome Prn			0.063	0.098	0.119	0.157	0.316	0.334	0.334	0.334
Senegal	4.790	5.900	7.000	8.000	9.000	10.000	11.000	12.000	12.000	12.000
Seychelles			0.068	0.068	0.068	0.068	0.068	1.022	1.022	1.022
Sierra Leone	0.161	0.487	0.634	0.645	0.670	0.734	8.720	9.136	9.136	9.136
Somalia		2.200	2.200	2.300	2.970	7.470	10.444	10.618	10.618	26.088
South Africa	7.104	7.109	7.154	7.250	7.400	7.400	7.400	7.400	9.266	9.266
South Sudan		0.160	0.160	0.160	0.160	0.428	0.449	0.551	0.649	0.649
Sudan	3.506	8.041	8.041	8.041	11.142	12.322	12.580	12.580	18.580	18.580
Tanzania	25.803	32.464	34.974	46.248	53.675	59.329	63.677	67.224	67.348	67.472
Togo	0.222	0.298	0.367	0.701	1.458	1.832	2.172	3.000	3.032	3.064
Tunisia	1.446	1.555	1.555	1.563	1.710	2.060	2.076	2.076	7.076	7.076
Uganda	16.240	17.320	18.500	23.500	25.500	27.500	31.400	33.400	33.560	33.720
Zambia	1.607	2.607	2.667	2.667	1.917	1.951	1.951	2.081	9.931	12.941
Zimbabwe	1.722	2.450	3.515	4.272	5.931	6.714	7.857	9.518	9.518	12.928
Asia	3 777.998	4 046.130	4 364.660	5 205.801	5 687.080	6 051.945	5 766.080	7 301.448	7 755.492	8 059.819
Afghanistan	17.419	36.970	41.140	46.109	50.127	54.814	58.416	57.948	57.948	57.482
Bangladesh	45.684	69.771	98.329	124.037	146.782	153.261	170.363	162.471	187.709	180.336
Bhutan	8.373	8.373	8.373	8.373	8.373	8.373	8.373	8.610	8.610	8.610
Cambodia	2.257	2.257	2.798	2.992	4.995	5.676	5.691	5.096	5.096	5.012
China	302.400	391.330	508.330	586.930	655.530	710.490	747.190	786.950	826.710	866.470
India	657.080	768.979	935.774	1 201.010	1 355.564	1 566.152	1 805.507	2 079.650	2 081.470	2 178.710
Indonesia	1 898.589	1 915.888	1 655.872	1 671.392	1 682.078	1 689.607	1 726.910	2 674.283	2 681.963	2 685.463
Kazakhstan	3.584	6.020	15.262	71.255	86.517	99.689	116.656	281.060	608.000	807.000
Korea DPR	1.890	2.494	6.339	11.158	22.994	31.734	35.380	38.380	41.380	41.380
Lao PDR	2.015	2.015	2.475	2.907	3.259	3.632	3.632	3.632	3.632	3.632
Malaysia	515.624	504.974	732.644	1 101.978	1 240.665	1 245.868	534.533	539.550	539.580	539.580
Maldives	1.676	2.816	3.245	5.532	5.549	8.238	10.938	10.938	14.559	16.559
Mongolia	8.250	8.583	8.583	8.583	8.583	8.583	8.583	8.583	8.583	8.577
Myanmar	5.909	7.309	8.743	10.996	29.272	40.461	54.937	58.698	59.638	55.652
Nepal	43.338	47.373	52.380	56.387	61.872	63.953	104.949	104.491	104.213	104.213
Pakistan	11.628	15.472	16.027	16.227	16.376	16.369	27.563	27.988	38.192	38.141
Philippines	23.565	26.540	31.567	32.007	35.370	44.320	44.601	53.806	89.426	64.499
Sri Lanka	12.537	12.786	13.041	13.218	13.464	13.815	14.078	14.243	14.243	13.963
Tajikistan	43.200	43.200	43.200	43.200	43.200	43.200	43.200	44.160	44.160	44.160
Timor Leste	0.462	0.462	1.020	1.020	1.020	1.020	1.065	1.065	1.065	1.065
Uzbekistan			1.000	1.000	1.000	2.200	3.025	3.325	3.325	3.325
Viet Nam	172.518	172.518	178.518	189.490	214.490	240.490	240.490	336.490	335.990	335.990
C America + Carib	52.330	56.589	75.807	81.053	83.956	83.332	95.709	104.789	106.026	106.344
Bahamas	0.011	0.020	0.025	0.126	0.147	0.172	0.089	0.089	0.089	0.089
Belize	0.830	1.895	1.930	2.110	3.410	3.410	3.410	3.410	0.640	0.640
Costa Rica							4.500	4.500	6.081	6.140
Cuba							0.467	0.835	8.900	9.124
Dominica	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010

## Total renewable energy Total énergies renouvelables Total energías renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Dominican Rep	15.650	16.190	18.254	20.310	22.591	24.701	33.949	39.951	40.143	40.178
El Salvador	0.126	0.184	12.545	12.545	12.545	12.545	12.418	14.856	4.016	4.016
Grenada										
Guatemala	0.778	1.525	2.560	5.434	8.308	8.308	8.308	8.308	8.308	8.308
Haiti	0.543	0.715	0.816	0.837	1.064	1.105	1.185	1.385	1.385	1.385
Honduras	4.479	5.156	5.156	5.170	5.170	5.270	3.000	3.029	9.329	9.329
Nicaragua		0.400	0.400	0.400	0.400				2.400	2.400
Panama	29.903	30.494	34.011	34.011	30.211	27.711	28.211	28.211	24.520	24.520
Puerto Rico							0.062	0.105	0.105	0.105
US Virgin Is			0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
<b>Middle East</b>	<b>3.772</b>	<b>4.437</b>	<b>38.966</b>	<b>53.035</b>	<b>108.379</b>	<b>128.511</b>	<b>148.561</b>	<b>306.803</b>	<b>309.933</b>	<b>313.658</b>
Iran IR	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378
Iraq	1.340	1.340	30.840	37.840	37.840	37.840	37.840	37.840	37.840	37.840
Jordan	0.028	0.058	0.126	0.221	0.542	0.553	0.553	0.553	0.585	0.585
Kuwait			2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400
Lebanon	0.002	0.504	2.061	3.390	3.397	3.507	3.527	11.600	11.600	11.600
Oman						0.011	0.011	0.011	0.011	0.011
Palestine									1.833	1.833
Saudi Arabia				0.014	0.014	0.014	0.014	0.014	0.014	0.014
Syrian AR	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
United Arab Em	0.138	0.190	0.192	3.192	3.208	3.208	3.238	3.407	4.672	5.597
Yemen	1.286	1.367	2.369	5.000	60.000	80.000	100.000	250.000	250.000	252.800
<b>Oceania</b>	<b>144.339</b>	<b>156.021</b>	<b>158.033</b>	<b>160.141</b>	<b>163.463</b>	<b>167.745</b>	<b>169.969</b>	<b>170.503</b>	<b>170.868</b>	<b>170.968</b>
Amer Samoa						1.410	1.760	1.760	1.760	1.760
Cook Is	0.046	0.046	0.056	0.056	0.056	0.056	0.056	0.156	0.156	0.156
Fiji	1.309	1.594	1.156	1.352	2.052	4.052	4.119	4.521	4.571	4.722
Fr Polynesia	1.748	1.748	1.848	2.948	3.148	3.248	3.548	3.448	3.448	3.448
Kiribati	0.426	0.466	0.502	0.743	1.389	1.397	1.397	1.397	1.397	1.397
Marshall Is	0.260	0.300	0.480	0.650	0.650	0.650	0.650	0.667	0.667	0.667
Micronesia	0.297	0.297	0.388	0.388	0.388	0.388	0.388	0.395	0.395	0.395
Nauru			0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
New Caledon	0.500	0.500	0.500	0.500	0.500	0.500	0.760	0.760	0.760	0.760
Palau						0.170	0.170	0.170	0.235	0.235
Papua N Guin	137.834	149.140	151.046	151.046	151.585	151.936	151.902	151.665	151.695	151.695
Samoa	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Solomon Is	1.492	1.492	1.492	1.768	1.768	1.949	2.324	2.324	2.324	2.324
Tokelau	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Tonga	0.120	0.131	0.234	0.234	0.240	0.251	0.251	0.251	0.251	0.251
Tuvalu	0.192	0.192	0.192	0.192	1.308	1.316	1.321	1.332	1.332	1.332
Vanuatu	0.080	0.080	0.096	0.221	0.336	0.379	1.280	1.614	1.834	1.783
<b>S America</b>	<b>301.307</b>	<b>384.235</b>	<b>411.624</b>	<b>458.022</b>	<b>480.221</b>	<b>495.549</b>	<b>520.483</b>	<b>517.867</b>	<b>552.753</b>	<b>560.845</b>
Argentina	4.801	4.801	3.695	6.237	4.748	4.753	4.753	4.753	13.533	13.533
Bolivia	71.602	72.301	73.705	96.035	105.735	105.735	105.735	123.160	128.550	128.550
Brazil	0.701	0.741	0.741	0.741	3.950	4.111	7.232	7.247	7.227	7.227
Chile	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	1.445
Colombia	1.367	1.381	1.442	1.477	1.840	1.897	6.937	6.949	14.100	21.290
Ecuador	6.550	6.880	7.200	10.250	12.250	12.320	12.320	13.879	13.879	13.879
Falklands Malv	0.340	0.340	0.340	0.340	0.410	0.410	0.410	0.410	0.410	0.410
Fr Guiana	1.049	1.049	1.049	1.049	1.049	1.049	1.049	1.049	4.149	4.149
Guyana	46.080	46.279	46.496	46.706	47.151	37.787	37.800	38.419	38.563	38.563
Paraguay	0.005	0.005	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
Peru	164.339	215.166	200.025	216.884	223.114	246.947	258.029	234.895	240.966	240.966
South Georgia	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
Suriname	0.281	0.661	0.943	1.195	2.845	2.845	2.875	3.575	3.575	3.575
Uruguay	0.361	0.500	0.520	0.540	0.561	1.127	6.775	7.373	11.233	11.455
Venezuela	2.810	33.110	74.390	75.490	75.490	75.490	75.490	75.080	75.490	75.490

# Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	627.189	665.419	681.386	694.965	733.204	740.669	773.385	1 697.508	1 729.279	1 739.879
Africa	140.861	145.891	147.701	154.432	174.377	175.124	194.120	204.120	217.460	227.360
Angola	5.659	5.659	5.659	6.859	6.859 e	6.859 e	6.859 e	6.859 e	6.859 e	6.859 e
Burkina Faso									2.500 u	2.500 e
Burundi	1.603 c	1.603 c	1.603 c	1.603 c	1.603 c	1.603 c	1.603 e	1.603 e	1.603 e	1.603 e
Cameroon	0.300 e	0.300 e	0.300 c	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 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	97.000 e	97.000 e	97.800 e	97.800 e	110.900 e	110.900 e	121.700 e	131.700 u	141.600 u	151.500 e
Eswatini	1.700	1.700	1.700	1.700	1.700	1.700 e	1.700 e	1.700 e	1.700 e	1.700 e
Ethiopia	1.279 e	1.279 e	1.279 e	1.279 e	1.279 e	1.279	1.279	1.279 e	1.279 e	1.279
Gabon	0.200 e	0.200 e	0.200 e	0.200 e	0.200 e	0.287 e	0.287 e	0.287 e	0.287 e	0.287 e
Guinea	2.220 c	2.220 c	2.220 c	2.220 c	2.220 c	2.220 c	2.220 e	2.220 e	2.220 e	2.220 e
Kenya	5.115 c	5.115 c	5.115 c	5.755 c	5.755 c	6.115 c	6.435 e	6.435 e	6.435 e	6.435 e
Lesotho	0.180	0.180	0.180	0.180	0.180 e	0.180 e	0.180 e	0.180 e	0.180 e	0.180 e
Liberia	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
Madagascar	3.509 c	3.509 c	3.574 c	4.219 c	5.249 c	5.249 c	5.349 e	5.349 e	5.349 e	5.349 e
Malawi	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e	1.700 e	1.700 e	2.000 e	2.000 e	2.000 e
Mozambique		0.075 e	0.275 e	0.900 e	1.060 e	1.060 e	1.060 e	1.060 e	1.060 e	1.060 e
Nigeria					0.400 c	0.400 c	0.400 c	0.400 c	0.400 e	0.400 e
Rwanda	0.740 c	1.140 c	1.840 c	1.840 c	1.840 c	1.840 c	2.276 c	2.276 e	2.276 e	2.276 e
Sierra Leone		0.250 e	0.250 e	0.250 e	0.250 e	0.250 e	4.890 e	4.890 e	4.890 e	4.890 e
South Africa	7.104 e	7.109 e	7.154 e	7.250 e	7.400 e	7.400 e	7.400 e	7.400 e	7.400 e	7.400 e
Tanzania	5.500 e	8.800 e	8.800 e	8.800 e	14.620 e	14.620 e	15.420 e	15.420 e	15.420 e	15.420 e
Uganda				3.500 c	3.500 c	3.500 c	5.400 c	5.400 c	5.400 e	5.400 e
Zambia	1.607 c	2.607 c	2.607 c	2.607 c	1.857 c	1.857 c	1.857 c	1.857 c	2.497 u	2.497 e
Zimbabwe	1.545	1.545	1.545	1.570	1.605 e	1.605 e	1.605 e	1.605 e	1.605 e	1.605 e
Asia	266.703	280.723	293.150	303.185	319.645	326.360	331.069	1 271.023	1 283.006	1 283.006
Afghanistan	17.299 e	20.748 e	24.197 e	27.646 e	31.095 e	34.544 e	37.993 e	37.993 e	37.993 e	37.993 e
Bhutan	8.098 c	8.098 c	8.098 c	8.098 c	8.098 c	8.098 c	8.098 c	8.335 c	8.335 e	8.335 e
India	78.568 e	79.237 e	82.169 e	83.377 e	84.079 e	84.675 e	84.675 e	84.675 e	84.675 c	84.675 e
Indonesia	8.760 e	9.555 e	11.515 e	12.764 e	14.457 e	14.887 e	14.887 e	944.380 c	944.880 c	944.880 e
Lao PDR	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 u	2.005 e	2.005 e
Malaysia	0.110 e	0.110 e	0.110 e	0.450 e	0.450 e	0.450 e	0.465 e	0.465 e	0.495 e	0.495 e
Mongolia	2.992 e	2.992 e	2.992 e	2.992 e	2.992 e	2.992 e	2.992 e	2.992 c	2.992 e	2.992
Myanmar	2.949 e	2.949 e	2.974 e	3.165 e	6.890 e	6.890 e	6.890 e	6.890 e	6.890 e	6.890 e
Nepal	35.544 c	38.802 c	42.168 c	45.456 c	49.102 c	51.012 c	52.257 c	53.506 c	54.959 c	54.959 e
Pakistan	11.596 e	15.104 e	15.554 e	15.619 e	15.619 e	15.619 e	15.619 e	15.634 e	15.634 e	15.634 e
Philippines	7.420 c	9.595 c	9.595 c	9.595 c	12.595 c	12.595 c	12.595 c	20.595 c	30.595 c	30.595 c
Sri Lanka	4.837 e	5.003 e	5.248 e	5.493 e	5.738 e	6.068 e	6.068 e	6.068 e	6.068 e	6.068 e
Tajikistan	43.200	43.200	43.200	43.200	43.200	43.200	43.200	44.160 e	44.160 e	44.160
Timor Leste	0.325 c	0.325 c	0.325 c	0.325 e	0.325 e	0.325 e	0.325 e	0.325 e	0.325 e	0.325 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	0.367	0.902	1.173	1.460	1.736	1.557	1.688	1.797	3.724	3.744
Cuba									1.900 c	1.900 u
Dominican Rep	0.285 c	0.362 c	0.633 c	0.920 c	1.196 c	1.317 c	1.448 c	1.528	1.665 c	1.685 c
El Salvador	0.082 e	0.140 e	0.140 e	0.140 e	0.140 e	0.140 e	0.140 e	0.140 e	0.030 c	0.030 e
Honduras						0.100 e	0.100 e	0.129 e	0.129 e	0.129 e
Nicaragua		0.400	0.400	0.400	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	68.205	77.605	76.714	76.789	76.789	76.942	76.942	76.942	76.942	76.942
Fiji	1.021 u	1.021 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 u	0.130 e	0.130 e
Fr Polynesia										
Papua N Guin	66.995 u	76.395 u	76.395 u	76.395 u	76.395 u	76.395 u	76.395 u	76.395 u	76.395 e	76.395 e
Solomon Is	0.189 c	0.189 c	0.189 c	0.189 c	0.189 c	0.339 c	0.339 c	0.339 c	0.339 e	0.339 e
Vanuatu				0.075 e	0.075 e	0.078 e	0.078 e	0.078 e	0.078 e	0.078 e
S America	149.713	158.958	161.308	157.759	159.317	159.346	168.226	142.286	146.807	147.487
Argentina	4.706 c	4.706 c	3.600 c	6.136 c	4.026 c	4.055 c	4.055 e	4.055 e	4.079 c	4.079 e
Bolivia	8.000	8.000	8.000		1.200	1.200	1.200	0.800 e	0.800 c	0.800 e
Brazil	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e	0.020 e		
Chile	0.765 c	0.765 c	0.765 c	0.765 c	0.765 c	0.765 c	0.765 c	0.765 c	0.765 c	1.445 c
Colombia					0.318 e	0.318 e	5.318 c	5.318 c	9.405 e	9.405 e
Ecuador	4.110 c	4.400 c	4.400 c	3.660 c	5.660 c	5.660 c	5.660 c	6.060 c	6.060 c	6.060 c
Fr Guiana	0.888 c	0.888 c	0.888 c	0.888 c	0.888 c	0.888 c	0.888 c	0.888 c	0.888 c	0.888 e
Guyana	1.864 e	2.019 e	2.175 e	2.330 e	2.330 c	2.330 e	2.330 e	2.330 e	2.350 c	2.350 e
Peru	128.300	137.100	140.400	142.900	142.900	142.900	146.750 c	120.820	120.820	120.820 e
South Georgia	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250 e
Suriname					0.150	0.150	0.180 e	0.180 e	0.180 e	0.180 e
Venezuela	0.810 c	0.810 c	0.810 c	0.810 u	0.810 u	0.810 e	0.810 e	0.800 e	1.210 c	1.210 e

# Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	503.009	719.166	1 064.782	1 398.772	1 793.952	2 274.621	2 900.353	3 595.149	4 064.549	4 314.516
Africa	109.277	154.549	189.961	245.165	365.613	604.591	842.334	975.913	1 012.334	1 049.903
Algeria				1.100	49.100	219.100	400.000 c	423.000 l	423.000 e	423.000 e
Angola	7.718 e	9.604 e	10.799 e	11.962 e	12.867 e	13.377 e	13.377 e	13.377 e	13.377 e	13.377 e
Benin						1.500	1.500	1.500	1.500 e	1.540 c
Botswana	0.169 e	0.315 e	0.415 e	0.560 e	0.853 e	1.925 e	2.047 e	2.558 l	2.558 e	2.594 e
Burkina Faso	5.800 e	5.800 e	6.300 e	7.000 e	8.000 e	10.000 e	12.000 e	27.000 c	27.000 e	27.000 e
Burundi	0.800 e	1.200 e	2.200 e	2.400 e	2.700 e	3.700 e	4.700 e	4.700 e	4.700 e	4.700 e
Cabo Verde		0.074	0.151	0.305	0.618	0.674	0.735	0.801 e	0.846 l	0.846 e
Cameroon	2.400 e	2.800 e	3.600 e	5.600 e	7.400 e	9.000 e	11.596 e	14.192 e	14.192 e	14.317 u
Cent Afr Rep	0.200 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.300 e	0.316	0.316 e
Chad	0.002 e	0.003 e	0.050 e	0.050 e	0.172 e	0.173 e	0.173 e	0.190 e	0.190 e	0.190 e
Congo DR	0.023 e	0.087 e	0.389 e	0.608 e	0.672 e	3.237 l	5.235 l	19.927 l	19.927 e	19.927 e
Congo Rep	0.070 e	0.120 e	0.230 e	0.460 e	0.460 e	0.460 e	0.570 e	0.720 e	0.720 e	0.720 e
Cote d'Ivoire	1.667 e	1.973 e	2.908 e	3.834 e	5.059 e	5.059 e	8.278 e	13.144 e	13.144 e	13.144 e
Djibouti		0.300 e	0.300 e	0.300 e	0.300 e	0.362 l	0.362 l	0.362 l	0.362 l	0.362 e
Egypt	15.000	15.000	15.000	15.000	25.000	30.000 c	30.000 c	44.200 c	44.200 c	44.200 c
Eq Guinea										0.076 e
Eritrea	0.005 e	0.023 e	0.035 e	7.859 e	7.859 e	8.209 e	10.209 e	17.709 e	19.959 e	22.209 e
Eswatini	0.735 e	0.761 e	0.778 e	0.804 e	0.804 e	0.804 e	0.804 e	0.804 e	0.804 e	0.804 e
Ethiopia	0.335	1.148	3.344	9.131	9.890	14.040	12.494	12.346	12.346	20.184
Gabon	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e	1.400 e
Gambia	1.859 e	1.991 e	1.995 e	2.000 e	2.000 e	2.000 e	2.002 e	2.002 e	2.002 e	2.002 e
Ghana				1.350 c	5.609 c	6.847 c	7.583 c	7.587 e	7.987 l	7.987 e
Guinea	0.600 e	0.600 e	3.371 e	3.371 e	13.273 e	13.279 e	13.279 e	13.283 e	13.283 e	13.283 e
Guinea Bissau					0.312 e	0.312 e	0.312 e	1.169 c	1.169 e	1.169 e
Kenya	0.920 e	2.889 e	6.747 e	15.640 e	29.673 e	30.832 e	37.979 e	49.393 e	49.393 e	49.477 u
Lesotho			0.163 e	0.163 e	0.163 e	0.163 e	0.163 e	0.163 e	0.163 e	0.163 e
Liberia	0.005 l	0.040 l	0.040 l	0.040 l	0.057 l	0.059 l	2.406 l	2.583 l	2.583 e	2.583 e
Libya	4.200 e	4.900 l	4.900 l	4.900 l	4.900 l	4.900 l	5.110 l	5.110 e	5.110 e	5.110 e
Madagascar	2.000 e	2.600 e	5.000 e	7.000 e	9.000 e	11.000 e	13.000 e	13.365 e	14.235 e	17.135 e
Malawi	1.755 e	2.681 e	4.565 e	6.834 e	11.257 e	11.257 e	18.337 e	21.877 e	21.877 e	23.177 u
Mali	9.857 e	15.741 e	15.741 c	16.150 e	17.178 e	17.571 e	19.252 e	19.252 e	19.297 c	19.542 u
Mauritania			3.000 c	3.151 c	3.166 c	19.766 c	19.766 c	21.066 l	21.209 l	21.209 e
Morocco	14.000	15.000	15.000	18.800	18.800	20.870	22.895 c	22.895 c	22.903 c	22.903 e
Mozambique	0.500 e	1.500 e	4.900 e	7.000 e	10.000 e	13.000 e	15.000 e	15.000 e	15.000 e	15.000 e
Namibia	7.350 e	10.700 e	13.400 e	14.176 e	14.176 e	14.176 e	14.176 e	21.929 e	23.869 e	23.869 e
Niger	3.000 e	4.000 e	5.000 e	6.000 e	7.000 e	8.000 e	9.041 l	20.041 l	20.041 l	20.041 e
Nigeria		15.200 e	15.400 e	15.600 e	17.000 e	17.200 e	17.400 e	17.565 l	26.439 l	26.908 u
Reunion									1.340 l	1.340 e
Rwanda	0.062 e	0.219 e	0.698 e	1.241 e	5.167 e	10.391 e	15.150 e	18.870 e	18.870 e	18.870 e
Sao Tome Prn			0.063 e	0.098 e	0.119 e	0.157 e	0.316 e	0.334 e	0.334 e	0.334 e
Senegal	4.790 e	5.900 e	7.000 e	8.000 e	9.000 e	10.000 e	11.000 e	12.000 e	12.000 e	12.000 e
Seychelles			0.068 c	0.068 c	0.068 c	0.068 c	0.068 e	1.022 e	1.022 e	1.022 e
Sierra Leone	0.161 l	0.237 l	0.384 l	0.395 l	0.420 l	0.484 l	3.830 l	4.246 l	4.246 e	4.246 e
Somalia				0.100 e	0.170 e	0.470 e	6.894 e	7.068 e	7.068 e	22.538
South Africa									1.866 l	1.866 e
South Sudan		0.160 e	0.160 e	0.160 e	0.160 e	0.428 l	0.449 l	0.551 l	0.649 l	0.649 e
Sudan	3.506	8.041	8.041	8.041	11.142	12.322 c	12.580	12.580 l	18.580 l	18.580 e
Tanzania	0.303 e	1.164 e	3.674 e	11.188 e	12.795 e	18.424 e	21.972 e	25.519 e	25.643 e	25.767 e
Togo	0.222	0.298	0.367	0.701	1.458	1.832	2.172	3.000 c	3.032 l	3.064 e
Tunisia	1.446 e	1.555 e	1.555 e	1.563 e	1.710 e	2.060 e	2.076 e	2.076 e	7.076 l	7.076 e
Uganda	16.240 e	17.320 e	18.500 e	20.000 e	22.000 e	24.000 e	26.000 e	28.000 e	28.160 l	28.320 e
Zambia			0.060 e	0.060 e	0.060 e	0.094 e	0.094 e	0.224 e	7.434 l	10.444 e
Zimbabwe	0.177 e	0.905 e	1.970 e	2.702 e	4.326 e	5.109 e	6.252 e	7.913 e	7.913 e	11.323 e
Asia	351.233	511.639	766.330	1 016.389	1 217.709	1 425.149	1 772.802	2 178.695	2 602.396	2 803.259
Afghanistan	0.120 e	16.122 e	16.843 e	18.363 e	18.932 e	20.170 e	20.323 e	19.855 e	19.855 e	19.389 e
Bangladesh	42.624 c	66.021 c	93.909 c	118.917 c	140.132 c	146.211 c	163.313 c	155.421 c	180.659 c	172.986 c
Bhutan	0.275 e	0.275 e	0.275 e	0.275 e	0.275 e	0.275 e	0.275 e	0.275 e	0.275 e	0.275 e
Cambodia	0.007 e	0.007 e	0.548 e	0.742 e	1.245 e	1.926 e	1.941 e	1.346 e	1.346 e	1.262 e
China	177.800	217.800	297.800	337.800	357.800	367.800	376.800	385.800	394.800 e	403.800 c
India	81.835 e	149.717 e	269.577 e	381.328 e	486.114 e	637.861 e	870.886 e	1 098.628 e	1 130.378 e	1 130.378 e
Indonesia	15.829 e	22.333 e	29.357 e	32.628 e	41.621 e	41.720 e	43.023 e	44.643 e	49.823 e	53.323 e
Kazakhstan	3.584	6.020	15.262	71.255	86.517	99.689	116.656	281.060	608.000	807.000
Korea DPR	1.690 l	2.294 l	6.139 l	10.958 l	22.794 l	31.534 l	34.780 l	37.780 l	40.780 l	40.780 e
Lao PDR	0.010 e	0.010 e	0.470 e	0.902 e	1.254 e	1.627 e	1.627 e	1.627 e	1.627 e	1.627 e
Malaysia	0.004 c	0.004 c	0.004 c	1.528 e	2.415 e	2.418 e	2.428 e	7.445 e	7.445 e	7.445 e
Maldives	0.269 e	1.409 e	1.838 e	4.125 e	4.142 e	6.831 e	9.531 e	9.531 e	13.152 l	15.152 u
Mongolia	4.585 e	4.585 e	4.585 e	4.585 e	4.585 e	4.585 e	4.585 e	4.585 c	4.585 e	4.585
Myanmar	1.400 e	2.800 e	4.209 c	6.271 c	20.819 c	32.008 c	43.781 c	47.542 c	48.482 c	44.496 c
Nepal	7.794 c	8.571 c	10.143 c	10.862 c	12.701 c	12.872 c	52.623 c	50.816 e	49.055 e	49.055 e
Pakistan	0.032 e	0.213 e	0.318 e	0.453 e	0.602 e	0.595 e	11.789 e	12.199 e	22.403 e	22.352 e
Philippines	1.020 c	1.020 c	1.047 c	1.487 c	1.850 c	1.895 c	2.176 c	3.381 c	13.001 c	12.904 c
Sri Lanka	7.700 e	7.783 e	7.793 e	7.725 e	7.726 e	7.747 e	8.010 e	8.206 e	8.175 e	7.895 e
Timor Leste	0.137 e	0.137 e	0.695 e	0.695 e	0.695 e	0.695 e	0.740 e	0.740 e	0.740 e	0.740 e
Uzbekistan			1.000	1.000	1.000	2.200	3.025	3.325	3.325 e	3.325 e
Viet Nam	4.518 e	4.518 e	4.518 e	4.490 e	4.490 e	4.490 e	4.490 e	4.490 e	4.490 e	4.490 e
C America + Carib	9.068	12.329	28.083	32.759	38.681	40.420	47.568	56.393	49.403	49.701
Bahamas	0.011 e	0.020 e	0.025 e	0.126 e	0.147 e	0.172 e	0.089 e	0.089 e	0.089 c	0.089 e
Belize	0.810	1.875	1.910	2.090	3.390	3.390	3.390	3.390 e	0.620 l	0.620 e
Costa Rica									1.581 e	1.640 e
Cuba							0.467 l	0.835 l	7.000 l	7.224 u
Dominican Rep			1.500	3.000	4.500	6.173	15.192	20.992	21.047 c	21.062 c
El Salvador	0.044 e	0.044 e	12.405 e	12.405 e	12.405 e	12.405 e	12.278	14.716	3.986 c	3.986 e

# Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Guatemala	0.778 €	1.525 €	2.560 €	5.434 €	8.308 €	8.308 €	8.308 €	8.308 €	8.308 €	8.308 €
Haiti	0.543 €	0.715 €	0.816 €	0.837 €	1.064 €	1.105 €	1.185 €	1.361 €	1.361 €	1.361 €
Honduras	4.479 €	5.156 €	5.156 €	5.156 €	5.156 €	5.156 €	2.886 €	2.886 €	2.886 €	2.886 €
Nicaragua									2.400 c	2.400 c
Panama	2.403	2.994	3.711	3.711	3.711	3.711	3.711 c	3.711 €	0.020 €	0.020 €
Puerto Rico							0.062 €	0.105 €	0.105 €	0.105 €
Middle East	1.832	1.997	32.626	45.695	101.039	121.171	141.221	299.463	302.593	306.318
Iran IR	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378 €	0.378 €	0.378 €
Iraq			29.500 c	36.500 c	36.500 €	36.500 €	36.500 €	36.500 €	36.500 €	36.500 €
Jordan	0.028 €	0.058 €	0.126 €	0.221 €	0.542 €	0.553 €	0.553 €	0.553 €	0.585 c	0.585 €
Lebanon	0.002 €	0.004 €	0.061 €	0.390 €	0.397 €	0.507 €	0.527 €	8.600 c	8.600 €	8.600 €
Oman						0.011 €	0.011 €	0.011 €	0.011 €	0.011 €
Palestine									1.833 c	1.833 e
Saudi Arabia				0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €
United Arab Em	0.138 €	0.190 €	0.192 €	3.192 €	3.208 €	3.208 €	3.238 €	3.407 c	4.672 c	5.597 u
Yemen	1.286 c	1.367 c	2.369 c	5.000 c	60.000 c	80.000 c	100.000 €	250.000 €	250.000 €	252.800 u
Oceania	4.834	5.204	6.195	8.228	11.590	15.719	17.943	18.476	18.841	18.941
Amer Samoa						1.410 c	1.760 c	1.760 c	1.760 €	1.760 e
Cook Is	0.046 €	0.046 €	0.056 €	0.056 €	0.056 €	0.056 €	0.056 €	0.156 €	0.156 €	0.156 e
Fiji	0.276 €	0.555 €	1.002 €	1.198 €	1.898 €	3.898 €	3.965 €	4.367 €	4.417 €	4.568 e
Fr Polynesia	1.500 c	1.500 c	1.600 c	2.700 c	2.900 c	3.000 c	3.300 c	3.200 c	3.200 c	3.200 e
Kiribati	0.426 c	0.466 c	0.502 c	0.743 c	1.389 c	1.397 c	1.397 c	1.397 €	1.397 €	1.397 e
Marshall Is	0.260 €	0.300 €	0.480 €	0.650 €	0.650 €	0.650 €	0.650 €	0.666 €	0.666 €	0.666 e
Micronesia	0.297 €	0.297 €	0.388 €	0.388 €	0.388 €	0.388 €	0.388 €	0.395 €	0.395 €	0.395 e
Nauru			0.008 €	0.008 €	0.008 €	0.008 €	0.008 €	0.008 €	0.008 c	0.008 e
New Caledon	0.500 c	0.500 c	0.500 c	0.500 c	0.500 c	0.500 c	0.760 c	0.760 c	0.760 €	0.760 e
Palau						0.170 c	0.170 c	0.170 €	0.235 €	0.235 e
Papua N Guin	0.339 €	0.339 €	0.339 €	0.339 €	0.878 €	1.229 €	1.195 €	0.958 €	0.988 €	0.988 e
Samoa	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 €	0.014 e
Solomon Is	0.803 €	0.803 €	0.803 €	1.079 €	1.079 €	1.110 €	1.110 €	1.485 €	1.485 €	1.485 e
Tokelau	0.021 €	0.021 €	0.021 €	0.021 €	0.021 €	0.021 €	0.021 €	0.021 €	0.021 €	0.021 e
Tonga	0.120 c	0.131 c	0.234 c	0.234 c	0.240 c	0.251 c	0.251 c	0.251 €	0.251 €	0.251 e
Tuvalu	0.192 €	0.192 c	0.192 c	0.192 c	1.308 c	1.316 c	1.321 c	1.332 c	1.332 c	1.332 e
Vanuatu	0.040 €	0.040 €	0.056 €	0.106 €	0.261 €	0.301 €	1.202 €	1.536 €	1.756 €	1.705 e
S America	26.765	33.448	41.587	50.536	59.320	67.571	78.485	66.209	78.982	86.394
Argentina	0.026 c	0.026 c	0.026 c	0.024 c	0.618 c	0.606 c	0.606 €	0.606 €	2.030 c	2.030 e
Bolivia	3.432 €	4.131 €	5.535 €	5.535 €	5.535 €	5.535 €	5.535 €	4.860 c	5.250 c	5.250 e
Brazil	0.681 €	0.721 €	0.721 €	0.721 €	3.930 €	4.091 €	7.212 €	7.227 €	7.227 €	7.227 e
Colombia	1.308	1.322	1.383	1.418	1.463	1.520	1.520	1.532	4.636 e	11.826 c
Ecuador	0.040	0.080	0.400 c	1.940	1.940	2.010	2.010	3.169 c	3.169 c	3.169 c
Falklands Malv					0.070 c	0.070 c	0.070 c	0.070 c	0.070 €	0.070 e
Fr Guiana	0.161 c	0.161 c	0.161 c	0.161 c	0.161 c	0.161 c	0.161 c	0.161 c	0.161 c	0.161 e
Guyana	0.931	0.975	1.016	1.061	1.476	1.652	1.665	1.684	1.808	1.808 e
Paraguay	0.005 c	0.005 c	0.057 c	0.057 c	0.057 c	0.057 c	0.057 c	0.057 c	0.057 c	0.057 e
Peru	17.539 €	22.566 €	28.525 €	34.484 €	38.914 €	46.147 €	53.379 €	39.675	45.746	45.746 e
Suriname	0.281 €	0.661 €	0.943 €	1.195 €	1.195 €	1.195 €	1.195 €	1.895 €	1.895 €	1.895 e
Uruguay	0.361	0.500	0.520	0.540	0.561	1.127	1.675	2.273	3.933	4.155 c
Venezuela	2.000	2.300	2.300	3.400	3.400	3.400	3.400	3.000 €	3.000 c	3.000 e



# Other renewable energy

## Autres énergies renouvelables

### Otras energías renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	3 486.485	3 654.838	3 738.275	4 387.623	4 669.525	4 827.460	4 202.340	4 428.098	4 470.455	4 573.919
Africa	86.799	91.571	97.691	123.711	133.592	135.953	138.822	139.312	139.417	139.417
Algeria				10.200	10.200	10.200	10.200	10.000	10.000	10.000
Burkina Faso			0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Burundi	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Chad						1.100	1.100	1.100	1.100	1.100
Congo DR	0.160	0.160	0.160	0.160	0.160	0.160	2.160	2.960	2.960	2.960
Egypt										
Eritrea	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825	0.825
Ethiopia	9.000	9.000	9.000	9.000	17.000	17.006	17.006	17.006	17.006	17.006
Gabon					1.200	1.200	1.200	1.200	1.200	1.200
Ghana	6.774	6.774	6.774	8.274	8.305	8.305	8.305	8.305	8.305	8.305
Kenya	0.569	0.569	0.569	0.629	0.679	0.679	0.789	0.679	0.679	0.679
Madagascar	0.271	0.341	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411
Mali	32.000	32.000	32.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000
Mauritania			4.400	4.400	4.400	4.400	4.400	4.400	4.400	4.400
Morocco	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Namibia		0.002	0.002	0.002	0.002	0.002	0.011	0.011	0.011	0.011
Nigeria	8.200	8.200	9.700	12.200	12.200	13.430	13.430	13.430	13.535	13.535
Somalia		2.200	2.200	2.200	2.800	2.800	3.550	3.550	3.550	3.550
Tanzania	20.000	22.500	22.500	26.260	26.260	26.285	26.285	26.285	26.285	26.285
Asia	3 160.062	3 253.768	3 305.180	3 886.227	4 149.726	4 300.436	3 662.209	3 851.730	3 870.090	3 973.554
Afghanistan		0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Bangladesh	3.060	3.750	4.420	5.120	6.650	7.050	7.050	7.050	7.050	7.350
Cambodia	2.250	2.250	2.250	2.250	3.750	3.750	3.750	3.750	3.750	3.750
China	124.600	173.530	210.530	249.130	297.730	342.690	370.390	401.150	431.910	462.670
India	496.677	540.025	584.028	736.305	785.371	843.616	849.946	896.347	866.417	963.657
Indonesia	1 874.000	1 884.000	1 615.000	1 626.000	1 626.000	1 633.000	1 669.000	1 685.260	1 687.260	1 687.260
Korea DPR	0.200	0.200	0.200	0.200	0.200	0.200	0.600	0.600	0.600	0.600
Malaysia	515.510	504.860	732.530	1 100.000	1 237.800	1 243.000	531.640	531.640	531.640	531.640
Maldives	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407
Mongolia	0.673	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.000
Myanmar	1.560	1.560	1.560	1.560	1.563	1.563	4.266	4.266	4.266	4.266
Nepal			0.069	0.069	0.069	0.069	0.069	0.169	0.199	0.199
Pakistan		0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Philippines	15.125	15.925	20.925	20.925	20.925	29.830	29.830	29.830	45.830	21.000
Viet Nam	125.000	125.000	131.000	142.000	167.000	193.000	193.000	289.000	288.500	288.500
C America + Carib	42.895	43.358	46.551	46.834	43.539	41.355	46.453	46.599	52.899	52.899
Belize	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Costa Rica							4.500	4.500	4.500	4.500
Dominica	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Dominican Rep	15.365	15.828	16.121	16.390	16.895	17.211	17.309	17.431	17.431	17.431
Haiti								0.024	0.024	0.024
Honduras				0.014	0.014	0.014	0.014	0.014	6.314	6.314
Panama	27.500	27.500	30.300	30.300	26.500	24.000	24.500	24.500	24.500	24.500
US Virgin Is			0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Middle East	0.600	1.100	5.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000
Kuwait			2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400
Lebanon		0.500	2.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
Syrian AR	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
Oceania	71.300	73.212	75.124	75.124	75.084	75.084	75.084	75.085	75.085	75.085
Fiji	0.012	0.018	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Fr Polynesia	0.248	0.248	0.248	0.248	0.248	0.248	0.248	0.248	0.248	0.248
Marshall Is								0.001	0.001	0.001
Papua N Guin	70.500	72.406	74.312	74.312	74.312	74.312	74.312	74.312	74.312	74.312
Solomon Is	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Vanuatu	0.040	0.040	0.040	0.040						
S America	124.829	191.829	208.729	249.727	261.584	268.632	273.772	309.372	326.964	326.964
Argentina	0.069	0.069	0.069	0.077	0.104	0.092	0.092	0.092	7.424	7.424
Bolivia	60.170	60.170	60.170	90.500	99.000	99.000	99.000	117.500	122.500	122.500
Colombia	0.059	0.059	0.059	0.059	0.059	0.059	0.099	0.099	0.059	0.059
Ecuador	2.400	2.400	2.400	4.650	4.650	4.650	4.650	4.650	4.650	4.650
Falklands Malv	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
Fr Guiana									3.100	3.100
Guyana	43.285	43.285	43.305	43.315	43.345	33.805	33.805	34.405	34.405	34.405
Peru	18.500	55.500	31.100	39.500	41.300	57.900	57.900	74.400	74.400	74.400
South Georgia	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Suriname					1.500	1.500	1.500	1.500	1.500	1.500
Uruguay							5.100	5.100	7.300	7.300
Venezuela		30.000	71.280	71.280	71.280	71.280	71.280	71.280	71.280	71.280



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

%	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	25.1	26.2	27.2	28.2	29.5	30.8	32.1	33.2	34.6	36.6
Africa	18.7	18.8	19.1	19.6	20.2	20.1	21.1	21.6	21.7	22.3
Algeria	2.2	1.9	1.7	1.7	1.8	2.5	3.4	3.2	2.9	2.8
Angola	50.3	53.0	55.2	56.9	48.2	53.4	58.7	63.8	65.8	67.9
Benin	0.5	0.8	0.4	0.7	1.7	1.7	1.7	1.9	1.1	1.1
Botswana	0.1	0.5	0.5	0.2	0.2	0.4	0.4	0.4	0.7	0.7
Burkina Faso	12.2	10.3	15.0	13.3	12.1	12.8	21.6	24.7	22.4	22.4
Burundi	78.2	78.4	73.7	73.7	73.8	74.2	53.2	53.2	53.2	53.2
Cabo Verde	18.4	21.0	23.3	23.3	18.7	18.9	18.9	20.0	20.1	20.1
Cameroon	73.1	66.5	57.7	57.8	55.5	55.6	51.3	51.4	52.9	52.9
Cent Afr Rep	50.1	50.2	50.2	46.5	46.5	46.5	46.5	46.5	46.6	46.6
Chad	0.0	0.0	0.1	0.1	0.2	1.5	1.5	1.5	1.5	1.5
Comoros	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Congo DR	97.3	96.9	96.5	96.0	95.5	95.0	95.0	95.3	95.4	95.4
Congo Rep	33.2	53.3	53.3	53.4	58.0	54.2	55.8	55.8	55.8	55.8
Cote d'Ivoire	43.3	42.4	39.7	37.0	34.1	32.1	40.8	40.9	40.0	40.0
Djibouti		0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Egypt	11.6	11.0	10.6	10.6	10.1	9.3	8.3	8.5	10.0	10.1
Eq Guinea	7.0	36.1	36.1	36.1	36.1	33.8	31.7	31.7	31.7	31.7
Eritrea	0.6	0.6	0.6	5.9	5.2	5.4	5.1	8.3	9.2	10.1
Eswatini	94.9	94.9	94.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5
Ethiopia	91.7	91.7	92.1	92.1	94.8	96.4	97.8	98.1	97.7	97.8
Gabon	38.0	38.6	54.9	55.3	55.2	53.0	53.0	53.0	53.0	53.0
Gambia	2.6	3.9	3.3	3.5	3.6	3.6	3.6	3.2	3.2	3.2
Ghana	54.5	51.9	51.6	56.1	44.1	42.6	36.8	37.1	31.3	31.3
Guinea	62.5	59.8	38.5	38.5	61.8	62.8	61.1	60.7	60.0	60.0
Guinea Bissau					1.1	1.1	1.1	4.0	4.0	4.0
Kenya	64.2	65.3	65.5	65.6	65.6	65.9	67.1	71.6	74.5	74.4
Lesotho	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Liberia	4.2	4.3	4.2	4.2	4.2	21.0	49.1	49.1	49.1	49.1
Libya	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Madagascar	25.7	30.3	30.6	31.0	31.4	25.4	23.6	24.1	24.2	24.4
Malawi	91.6	91.6	91.6	93.0	93.3	93.3	91.2	74.1	74.4	74.4
Mali	55.3	55.8	58.9	55.4	55.0	50.4	47.9	43.0	43.0	46.1
Mauritania			9.1	8.8	11.3	14.3	14.3	21.2	20.8	20.8
Mauritius	20.4	19.0	19.5	21.4	22.4	24.2	24.0	27.4	28.7	28.7
Mayotte	13.8	14.3	14.4	14.5	14.2	11.9	13.3	13.3	13.3	13.3
Morocco	24.9	23.8	24.9	26.7	28.2	28.8	28.6	29.8	29.7	30.9
Mozambique	89.8	89.8	86.0	86.0	84.4	84.3	84.4	81.2	81.4	81.4
Namibia	58.1	65.6	65.9	62.4	62.7	67.7	70.0	70.8	73.1	73.2
Niger	2.2	2.9	2.8	3.4	3.8	4.5	3.5	9.8	9.8	9.8
Nigeria	23.3	23.4	21.3	20.2	20.2	17.1	17.0	16.4	16.4	16.4
Reunion	43.0	42.6	40.2	43.9	45.3	45.5	45.5	45.7	48.3	48.3
Rwanda	51.2	51.8	53.5	58.9	51.5	53.5	51.9	52.6	54.6	54.6
Sao Tome Prn	7.9	7.9	8.1	6.9	6.4	6.5	5.5	5.6	5.6	5.6
Senegal	3.5	3.6	3.9	4.1	4.2	7.6	13.0	14.0	17.2	17.2
Seychelles			6.5	7.2	7.6	6.7	6.9	7.7	7.7	7.8
Sierra Leone	59.7	59.9	59.9	66.7	55.4	55.5	57.5	49.1	41.7	41.7
Somalia		2.7	2.7	2.8	3.6	8.5	11.5	9.6	9.6	20.7
South Africa	2.2	2.2	3.2	5.5	7.3	9.3	11.8	13.9	13.8	16.0
South Sudan		0.2	0.2	0.2	0.2	0.5	0.3	0.4	0.4	0.4
Sudan	59.9	58.3	51.0	50.9	51.2	48.3	49.5	51.3	51.4	51.4
Tanzania	54.5	54.9	55.0	55.6	46.0	46.0	46.1	38.6	38.6	38.5
Togo	33.3	29.5	29.5	29.6	29.8	30.2	30.3	30.6	30.6	30.6
Tunisia	2.8	5.6	6.0	6.2	6.1	6.3	6.2	6.5	6.1	6.0
Uganda	73.2	83.7	88.2	85.0	85.2	85.2	85.9	86.2	89.4	89.5
Zambia	95.7	95.7	97.0	94.2	93.1	83.8	82.2	82.3	82.9	82.9
Zimbabwe	41.6	41.6	41.8	41.8	42.2	42.4	42.5	49.8	49.8	50.0
Asia	21.8	22.6	24.3	25.7	27.1	28.6	30.3	31.9	33.2	35.7
Afghanistan	51.5	55.1	55.4	55.8	56.1	59.6	60.0	60.0	56.9	56.8
Bangladesh	2.6	2.8	2.9	2.8	2.7	2.6	2.7	2.2	2.3	2.3
Bhutan	99.4	99.4	99.3	99.3	99.3	99.5	99.5	99.5	99.7	99.7
Brunei Darism	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cambodia	38.0	44.1	61.0	63.5	57.9	57.2	55.2	63.3	64.4	66.0
China	25.2	26.3	28.5	30.3	31.7	33.1	35.2	36.6	37.7	40.6
Chinese Taipei	6.3	6.8	7.2	7.7	8.3	8.9	9.9	11.3	13.4	15.9
India	24.4	23.3	22.5	22.8	22.6	24.7	27.0	28.9	30.1	30.9
Indonesia	17.1	15.9	15.7	15.4	15.7	15.5	15.2	15.1	14.8	15.0
Japan	12.7	13.1	14.7	16.6	19.5	21.9	23.6	26.5	28.7	29.3
Kazakhstan	11.4	12.6	12.7	13.4	13.5	13.3	13.6	13.3	16.1	18.6
Korea DPR	57.2	59.0	59.2	59.3	60.3	61.5	61.8	59.0	59.0	59.0
Korea Rep	3.9	4.2	4.7	5.7	7.4	7.9	8.5	9.5	11.8	14.3
Kyrgyzstan	79.4	79.4	81.8	82.3	85.3	85.3	85.4	85.3	85.3	85.3
Lao PDR	100.0	100.0	100.0	100.0	77.8	72.1	73.0	73.9	76.6	79.8
Malaysia	13.7	14.6	18.6	21.5	24.2	25.6	22.2	22.7	22.5	23.9
Maldives	1.2	2.0	2.2	3.8	3.8	3.7	4.9	4.7	5.2	5.8
Mongolia	3.5	3.7	7.4	7.4	7.4	8.3	13.8	18.3	18.7	18.7
Myanmar	74.6	75.2	72.2	68.6	65.4	65.3	58.7	54.5	53.2	46.6
Nepal	93.0	93.1	93.4	93.5	93.9	94.1	94.9	95.4	95.8	96.2
Pakistan	29.6	29.8	31.0	31.6	31.6	33.5	29.1	32.8	31.2	31.5
Philippines	28.9	29.0	27.2	28.5	29.1	28.2	28.0	27.6	26.3	26.5
Singapore	1.3	1.3	1.4	1.6	1.9	2.3	2.4	2.8	3.9	4.3
Sri Lanka	46.5	49.9	52.3	45.4	47.4	48.6	49.8	51.5	50.4	51.9
Tajikistan	93.8	93.8	93.8	92.3	92.3	87.5	87.5	87.8	88.0	88.0
Thailand	15.9	17.1	19.9	20.7	21.4	21.9	20.9	22.1	22.6	22.4
Timor Leste	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

# Renewable energy share of electricity capacity

## La part d'énergie renouvelable dans la puissance installée

### Proporción de energía renovable en la capacidad eléctrica

%	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Turkmenistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	14.3	13.9	14.0	14.2	13.3	13.1	12.6	13.5	12.0	12.5
Viet Nam	36.7	43.7	45.7	45.5	42.7	42.8	41.7	41.2	42.9	51.4
C America + Carib	24.2	25.8	25.9	27.0	29.4	31.9	33.5	33.9	35.9	36.2
Anguilla		0.2	0.2	4.0	4.0	7.3	7.3	4.6	6.0	5.9
Antigua Barb	0.4	0.4	0.3	0.3	2.8	4.1	4.6	9.3	9.3	9.3
Aruba	10.8	11.0	11.2	12.9	13.2	13.2	13.2	13.3	12.9	12.9
Bahamas	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.4
Barbados	0.5	0.6	0.7	2.5	3.5	7.4	7.8	7.6	11.6	15.8
Belize	56.4	56.7	57.8	58.3	58.7	62.7	64.5	64.5	53.1	53.1
BES Islands	44.2	36.9	36.9	36.9	37.5	41.2	39.3	38.2	39.6	39.6
Br Virgin Is	1.3	1.3	1.3	1.3	1.6	1.6	1.1	1.1	1.1	1.1
Cayman Is						1.7	5.2	5.8	6.4	7.3
Costa Rica	70.3	77.6	77.8	78.3	79.6	83.5	86.0	86.2	86.9	86.8
Cuba	10.5	10.4	9.1	9.6	10.0	9.4	10.4	11.4	16.6	17.6
Curacao	2.7	11.4	12.3	13.8	22.5	22.8	29.5	24.6	24.9	24.9
Dominica	17.3	17.3	17.1	16.9	16.9	17.7	17.7	23.7	23.7	23.7
Dominican Rep	11.6	13.4	13.5	13.5	14.3	16.7	17.6	19.9	24.8	25.8
El Salvador	56.6	58.7	56.3	57.2	55.1	56.6	60.8	63.0	66.1	66.2
Grenada	0.7	0.7	1.1	1.5	2.1	4.2	4.1	4.3	5.6	5.6
Guadeloupe	24.0	28.9	29.8	25.2	27.5	26.4	27.0	27.5	30.9	31.4
Guatemala	51.7	54.4	55.4	57.5	58.3	63.3	67.5	69.5	69.6	69.7
Haiti	13.4	13.4	12.9	13.0	13.0	13.0	13.1	17.1	17.1	17.1
Honduras	45.6	45.9	47.2	50.9	60.5	60.0	62.0	62.1	63.0	64.6
Jamaica	10.6	9.9	10.6	10.8	10.8	17.5	19.5	19.5	18.9	18.9
Martinique	11.6	14.2	12.2	13.8	14.4	14.6	14.6	21.0	23.6	23.6
Montserrat									3.5	3.5
Nicaragua	34.1	42.7	43.1	44.9	45.6	47.3	45.4	45.0	45.2	45.2
Panama	58.2	61.2	59.8	59.9	63.1	63.7	64.5	54.3	55.8	55.8
Puerto Rico	2.6	3.5	4.6	4.9	5.2	5.8	5.9	5.9	5.9	5.9
St Barth						0.1	0.1	0.1	0.1	0.1
St Kitts Nevis	3.7	3.7	4.3	6.1	5.8	6.2	5.8	5.8	5.8	5.8
St Lucia	0.0	0.1	0.1	0.1	0.9	0.9	0.9	4.2	4.2	4.2
St Martin			4.4	5.0	7.9	2.7	0.2	0.2	0.2	0.2
St Vincent Gren	11.0	10.6	11.8	11.8	12.2	12.8	13.0	13.0	13.9	13.9
Trinidad Tobago	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
Turks Caicos					0.0	0.0	0.2	0.5	1.0	1.0
US Virgin Is	0.2	0.2	0.3	1.6	2.8	2.9	2.1	1.5	1.5	1.5
Eurasia	24.6	25.2	25.3	24.5	25.9	25.4	26.1	26.6	27.2	28.6
Armenia	33.2	30.9	31.6	31.7	36.5	36.9	37.2	37.8	38.3	39.1
Azerbaijan	15.7	15.9	15.0	15.2	14.8	15.0	15.0	16.3	16.9	16.9
Georgia	79.6	79.6	79.8	80.6	76.0	76.1	77.5	78.1	76.3	77.1
Russian Fed	21.2	21.2	20.9	19.6	20.4	19.3	19.3	19.1	19.3	19.8
Turkey	36.1	38.9	39.9	40.2	43.1	43.9	45.5	47.7	48.9	51.5
Europe	34.0	36.3	38.2	39.4	41.2	42.8	44.4	45.4	47.8	49.8
Albania	100.0	94.4	94.8	94.6	94.8	95.1	95.4	95.5	95.6	95.9
Andorra	100.0	100.0	100.0	100.0	100.0	96.2	96.8	96.8	96.9	96.9
Austria	73.8	72.0	72.1	73.4	74.7	76.7	78.6	79.5	80.2	80.5
Belarus	0.4	0.6	0.8	0.7	1.3	2.3	3.6	3.9	4.0	4.0
Belgium	20.3	24.6	27.5	28.6	30.1	31.1	33.4	36.2	39.5	43.5
Bosnia Herzg	43.7	43.7	42.8	43.0	43.1	40.8	41.3	42.3	42.9	43.2
Bulgaria	28.8	34.4	35.2	36.2	37.9	38.6	39.5	38.1	38.5	38.6
Croatia	54.6	55.5	57.6	58.5	56.9	57.6	58.7	59.5	65.1	66.2
Cyprus	8.8	10.0	11.3	12.8	13.9	14.3	15.5	16.1	17.7	19.8
Czechia	18.2	19.5	19.4	19.0	19.3	19.2	19.2	19.1	19.8	20.1
Denmark	37.7	42.3	47.7	49.5	50.8	52.1	57.2	59.4	60.5	62.0
Estonia	11.8	15.1	17.8	18.5	20.7	23.6	24.2	21.6	26.1	26.0
Faroe Islands	34.5	41.4	43.7	48.0	46.4	46.3	46.3	44.8	40.4	36.0
Finland	33.3	33.4	33.3	35.6	37.1	41.4	43.7	44.2	45.1	49.2
France	27.3	28.4	29.8	31.2	32.4	33.7	35.9	37.4	39.2	40.5
Germany	38.2	43.8	45.2	45.7	48.1	50.2	52.3	52.0	54.0	56.3
Greece	33.4	37.0	40.7	42.4	43.0	44.0	44.7	46.1	48.5	52.1
Hungary	9.2	7.7	8.9	11.8	12.5	12.0	13.5	17.3	22.8	26.9
Iceland	95.5	95.7	95.9	95.9	95.8	97.0	97.1	97.2	97.3	97.3
Ireland	22.3	23.1	25.8	28.0	28.5	31.0	34.6	36.8	40.7	41.5
Italy	34.4	37.5	39.2	40.7	43.1	44.8	45.6	46.1	46.7	47.7
Kosovo*	4.6	4.6	4.6	4.6	4.6	8.2	8.6	8.6	9.7	9.7
Latvia	63.7	64.0	60.6	60.8	60.8	60.7	61.1	61.0	62.1	62.2
Lithuania	9.5	10.6	12.2	13.5	19.3	20.9	23.7	24.9	24.9	26.6
Luxembourg	8.0	10.4	11.6	11.1	11.8	17.6	18.6	18.9	21.7	24.5
Malta	1.4	2.9	4.8	8.5	11.7	17.1	16.5	18.7	21.1	24.2
Moldova Rep	2.0	2.1	2.2	2.3	2.3	2.3	2.7	3.5	3.6	3.6
Montenegro	75.1	75.1	74.9	74.9	74.9	74.9	76.4	77.5	77.6	77.7
Netherlands	11.4	11.6	13.7	14.7	16.9	21.0	23.4	28.1	33.2	41.3
North Macedonia	33.9	35.1	36.0	38.8	40.0	39.5	39.8	40.1	40.5	42.8
Norway	95.4	95.4	95.5	95.7	95.7	97.0	97.0	97.0	97.3	97.4
Poland	8.7	11.6	14.3	15.7	18.5	20.7	18.6	19.3	21.5	26.4
Portugal	52.9	55.5	59.0	60.5	61.9	64.1	64.7	64.9	65.4	65.7
Romania	36.3	38.6	44.2	46.9	47.3	47.6	47.5	47.6	53.7	56.7
Serbia	32.8	33.3	32.8	33.4	33.4	33.7	33.4	35.2	36.7	38.3

# Renewable energy share of electricity capacity

## La part d'énergie renouvelable dans la puissance installée

### Proporción de energía renovable en la capacidad eléctrica

%	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Slovakia	27.5	27.8	27.9	29.4	30.6	31.0	31.1	30.6	31.5	31.4
Slovenia	36.2	38.0	39.9	40.7	42.3	39.9	40.9	38.9	39.3	38.5
Spain	42.8	44.2	45.0	44.9	44.7	45.1	46.2	46.5	49.8	53.6
Sweden	65.6	64.2	65.0	65.9	67.7	69.0	70.8	70.8	72.8	75.3
Switzerland	75.6	75.7	76.1	76.4	76.7	78.0	78.9	79.3	79.7	81.6
UK	13.6	16.6	21.4	25.8	32.0	35.9	38.2	40.7	44.6	45.2
Ukraine	9.0	9.5	10.3	10.7	10.8	10.7	12.2	14.2	21.9	24.1
European Union (28)	32.7	35.2	37.2	38.6	40.7	42.5	43.9	44.9	47.2	49.3
Middle East	5.6	5.6	5.5	5.8	6.0	6.1	6.3	6.7	7.3	7.3
Bahrain	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Iran IR	13.6	14.3	14.8	15.0	15.2	15.3	15.5	15.4	15.4	15.1
Iraq	13.4	11.3	7.1	7.5	7.4	7.2	8.6	8.9	8.8	8.0
Israel	1.6	1.8	3.0	4.4	4.7	5.3	5.8	6.4	7.7	7.5
Jordan	0.5	0.5	0.5	0.4	3.5	12.2	14.7	20.9	26.1	31.0
Kuwait	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.5	0.5
Lebanon	8.6	8.7	8.1	8.2	8.2	8.7	8.2	8.8	8.8	8.8
Oman			0.0	0.0	0.0	0.0	0.1	0.1	0.5	1.3
Palestine	0.2	0.4	0.4	2.1	7.9	15.2	20.2	22.4	26.5	28.4
Qatar	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3
Saudi Arabia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.5
Syrian AR	10.4	10.4	10.4	15.6	17.3	15.5	15.4	14.9	14.9	14.8
United Arab Em	0.0	0.0	0.4	0.5	0.5	0.5	1.1	1.9	5.8	7.2
Yemen	0.1	0.1	0.2	0.3	3.8	5.0	6.0	13.7	13.0	13.0
N America	19.4	20.8	21.5	22.4	23.9	25.4	26.3	27.4	28.6	30.4
Canada	62.3	64.3	64.2	64.7	64.4	67.5	67.3	67.7	67.7	67.7
Greenland	39.4	48.7	48.7	48.7	48.7	48.7	48.7	48.8	48.8	48.8
Mexico	21.7	23.0	23.7	25.0	25.6	25.9	25.7	27.6	29.3	32.2
St Pierre Mq	2.3	2.3	2.3							
USA	13.9	15.4	16.0	16.8	18.2	19.8	20.9	22.0	23.3	25.4
Oceania	26.8	28.6	30.1	31.1	32.5	34.2	35.9	37.8	42.1	46.2
Amer Samoa		6.6	6.6	6.6	6.6	10.3	9.5	11.3	11.3	11.3
Australia	20.5	22.5	24.3	25.5	27.0	28.8	30.7	33.0	38.4	43.5
Cook Is	0.6	0.6	4.5	10.9	17.7	18.4	18.4	24.5	27.7	27.7
Fiji	54.1	60.6	59.2	59.3	59.5	59.7	61.5	61.7	58.5	58.5
Fr Polynesia	21.8	22.5	23.5	25.6	26.4	27.4	28.3	29.0	29.3	29.3
Guam	0.0	0.1	0.2	0.3	6.1	7.4	6.7	6.7	6.7	6.7
Kiribati	6.5	7.1	7.1	10.3	26.1	30.4	30.4	30.4	30.4	30.4
Marshall Is	1.1	1.6	2.2	3.4	3.4	5.3	5.3	5.3	5.3	5.3
Micronesia	1.8	1.8	2.2	2.2	2.2	4.0	4.0	9.9	9.5	9.5
Nauru	0.4	0.7	2.1	1.8	1.8	5.7	4.1	4.7	10.4	10.4
New Caledon	21.8	21.2	18.2	12.9	13.1	13.3	14.9	15.1	17.9	19.6
New Zealand	68.6	70.2	72.3	72.9	75.9	77.3	77.4	77.4	77.5	77.0
Niue	2.6	2.6	2.6	14.1	14.1	14.1	14.1	14.1	31.1	31.1
Palau	1.5	1.7	1.9	2.8	2.8	3.8	3.8	5.0	5.2	5.2
Papua N Guin	35.5	36.0	36.0	34.9	35.2	35.1	34.1	34.1	32.2	32.2
Samoa	33.9	26.7	22.2	28.4	31.0	34.5	45.6	45.8	47.1	47.1
Solomon Is	2.7	2.7	2.5	3.5	4.1	5.4	5.5	5.4	5.4	5.4
Tokelau	12.7	86.8	86.8	86.8	86.8	87.8	87.8	87.8	88.0	88.0
Tonga	0.9	8.3	11.7	8.6	14.0	16.3	26.7	26.7	30.5	30.5
Tuvalu	3.9	3.9	3.9	5.0	28.1	41.5	41.5	41.7	41.7	42.4
Vanuatu	22.7	22.6	22.7	25.7	25.9	28.8	30.0	30.7	31.2	31.1
S America	64.9	64.0	63.3	63.9	64.2	64.9	65.4	66.3	67.3	67.8
Argentina	33.6	32.8	32.9	32.6	31.9	30.9	29.3	29.4	31.5	33.1
Bolivia	33.2	30.2	29.5	27.9	26.4	27.3	31.7	35.7	30.1	29.9
Brazil	79.3	79.4	78.8	79.5	80.0	80.8	81.4	83.2	83.3	83.0
Chile	38.1	38.8	41.4	40.6	39.4	37.9	40.3	41.7	47.8	51.4
Colombia	67.6	68.1	68.1	69.8	69.8	70.0	70.0	68.9	68.6	70.7
Ecuador	45.1	43.4	43.4	42.6	43.3	56.4	58.6	60.8	60.8	60.8
Falklands Malv	26.0	26.0	26.0	26.0	23.9	23.9	23.9	23.9	23.9	23.9
Fr Guiana	57.9	58.0	58.1	58.1	54.8	54.8	54.8	54.8	55.3	56.4
Guyana	15.6	15.5	14.7	15.5	16.7	15.1	14.5	14.9	14.8	14.8
Paraguay	99.9	99.9	99.8	99.8	99.8	100.0	100.0	100.0	99.7	99.7
Peru	40.3	37.6	34.1	35.9	38.4	39.6	40.2	40.8	41.9	42.0
South Georgia	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
Suriname	43.3	43.4	37.7	35.9	36.1	36.1	35.8	36.0	35.4	35.4
Uruguay	67.6	63.0	61.2	65.7	72.3	83.4	81.7	75.8	75.8	75.8
Venezuela	56.9	52.9	49.3	48.9	48.8	50.8	50.7	50.4	49.6	49.6





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