

RENEWABLE CAPACITY STATISTICS 2022

STATISTIQUES DE CAPACITÉ RENOUVELABLE 2022

ESTADÍSTICAS DE CAPACIDAD RENOVABLE 2022

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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

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Data can be downloaded at: www.irena.org/Statistics/Download-Data

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FOREWORD

The global shift to renewables is underway.

This latest edition of *Renewable Capacity Statistics* comes as a statement to the world that renewables are the *de-facto* energy choice for new power generation, despite the devastating effect the COVID-19 pandemic has had on society and public agenda priorities.

By the end of 2021, renewables accounted for 38 per cent of global installed capacity. The large existing stock of non-renewable energy signifies a carbon lock-in for many countries that must face the decision to decommission fossil fuel power plants before the end of their useful lifetimes. This is especially evident in those countries that depend almost entirely on large-scale fossil fuel power generation.

2021 was a strong year for the energy transition – the world added almost 257 Gigawatts (GW) of renewables, increasing the stock of renewable power by 9.1 per cent and contributing to an unprecedented 81 per cent of global power additions. Solar power alone accounted for over half of the renewable additions with a record 133 GW last year, followed by 93 GW of wind energy overall, with offshore wind energy capacity hitting a record 21 GW.

Indeed, this recent progress is encouraging, but enormous efforts are required urgently to stay on the pathway to the 1.5°C climate goal. Choosing renewables should be the standard for new power additions as we act resolutely to stop new fossil fuel power generation, phase out the assets, and upgrade infrastructure to ensure system flexibility that allows a higher integration of variable renewables.

The energy transition gained momentum last year, as countries continued to deliver on the decade of action through increased renewables deployment; but the rate of growth is still not sufficient to guarantee a net zero future. Renewables need to reach around 40 per cent in total energy generation across all sectors by 2030.

This report should serve not only as a valuable resource to quantify progress, but also as a stark reminder of the work that lies ahead to achieve a just, inclusive and sustainable future for all.

Francesco La Camera

Director-General International Renewable Energy Agency

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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.

NOTES À PROPOS DES TABLEAUX

Les données sur les capacités électriques renouvelables présentées dans ces tableaux représentent la capacité maximale nette de génération des centrales électriques et autres installations utilisant des sources d'énergie renouvelables pour produire de l'électricité. Pour la plupart des pays et technologies, les données reflètent la capacité installée et connectée à la fin de l'année civile. Les données sont exprimées en mégawatts (MW) arrondies à l'unité la plus proche ; les valeurs inférieures à 0,5 MW apparaissent comme 0.

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

Les données sont téléchargeables sur le site www.irena.org/statistics.

NOTAS A LAS TABLAS

Los datos de capacidad de generación eléctrica con energías renovables que se muestran en estas tablas representan la capacidad máxima de generación neta de las centrales eléctricas y otras instalaciones que utilizan fuentes de energías renovables para producir electricidad. Para la mayoría de los países y las tecnologías, los datos reflejan la capacidad instalada y conectada al final del año natural. Los datos se presentan en megavatios (MW) redondeados al megavatio entero más cercano, con cifras entre cero y 0,5 MW representadas como un 0.

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

Los datos están disponibles para su descarga en www.irena.org/statistics.

COUNTRIES, AREAS AND REGIONS SHOWN IN THE TABLES PAYS, ZONES ET RÉGIONS FIGURANT DANS LES TABLEAUX PAÍSES, ZONAS Y REGIONES MOSTRADAS EN LAS TABLAS

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

Label/En-tête/Rótulo	English	Français	Español
Tanzania	United Republic of Tanzania	République-Unie de Tanzanie	República Unida de Tanzania
Togo	Togo	Togo	Togo
Tunisia	Tunisia	Tunisie	Túnez
Uganda	Uganda	Ouganda	Uganda
Westn Sahara	Western Sahara	Sahara occidental	Sahara occidental
Zambia	Zambia	Zambie	Zambia
Zimbabwe	Zimbabwe	Zimbabwe	Zimbabue
ASIA	ASIA	ASIE	ASIA
Afghanistan	Afghanistan	Afghanistan	Afganistán
Bangladesh	Bangladesh	Bangladesh	Bangladesh
Bhutan	Bhutan	Bhoutan	Bután
Brunei Darsm	Brunei Darussalam	Brunéi Darussalam	Brunei Darussalam
Cambodia	Cambodia	Cambodge	Camboya
China	China	Chine	China
China HK SAR	China, Hong Kong Special	Chine, région administrative	China, región administrativa
	Administrative Region	spéciale de Hong Kong	especial de Hong Kong
China Mac SAR	China, Macao Special	Chine, région administrative	China, región administrativa
	Administrative Region	spéciale de Macao	especial de Macao
Chinese Taipei	Chinese Taipei	Taipei chinois	China Taipéi
India	India	Inde	India
Indonesia	Indonesia	Indonésie	Indonesia
Japan	Japan	Japon	Japón
Kazakhstan	Kazakhstan	Kazakhstan	Kazajstán
Korea DPR	Democratic People's Republic	République démocratique	República Popular Democrática
Variat Dan	of Korea	populaire de Corée	de Corea
Korea Rep	Republic of Korea	République de Corée	República de Corea
Kyrgyzstan Lao PDR	Kyrgyzstan Lao People's Democratic	Kirghizistan	Kirguistán
LdO PDR		République démocratique	República Democrática Popular
Malaysia	Republic	populaire lao Malaisie	Lao
Malaysia Maldives	Malaysia Maldives	Maldives	Maldivas
			Mangalia
Mongolia	Myanmar	Myanmar	Myanmar
Myanmar	Myanmar	Myanmar Népal	Myanmar
Nepal Pakistan	Nepal Pakistan	Pakistan	Nepal Pakistán
Philippines	Philippines	Philippines	Filipinas Singapur
Singapore Sri Lanka	Singapore Sri Lanka	Singapour 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
Victivalii	Victivani	VICENCIII	VICEINAIII
C AMERICA + CARIB	CENTRAL AMERICA AND THE CARIBBEAN	AMÉRIQUE CENTRALE ET CARAÏBES	CENTROAMÉRICA Y EL CARIBE
Anguilla	Anguilla	Anguilla	Anguila
Antigua Barb	Antigua and Barbuda	Antigua-et-Barbuda	Antigua y Barbuda
Aruba	Aruba	Aruba	Aruba
Bahamas	Bahamas	Bahamas	Bahamas
Barbados	Barbados	Barbade	Barbados
Belize	Belize	Belize	Belice
BES Islands	Bonaire, Sint Eustatius and	Bonaire, Saint-Eustache et	Bonaire, San Eustaquio y Saba
525 15101105	Saha	Saha	Donaire, Juli Eustaquio y Juba

DominicaDominicaDominiqueDominicaDominican RepDominican RepublicRépublique dominicaineRepública Dominicana

Saba

Cuba

Curaçao

Îles Caïmanes

Costa Rica

Îles Vierges britanniques

Islas Vírgenes Británicas

Islas Caimán

Costa Rica

Cuba Curacao

Saba

Cuba

Curacao

British Virgin Islands

Cayman Islands

Costa Rica

Br Virgin Is

Cayman Is

Costa Rica

Cuba

Curacao

Label/En-tête/Rótulo	English	Français	Español
El Salvador	El Salvador	El Salvador	El Salvador
Grenada	Grenada	Grenade	Granada
Guadeloupe	Guadeloupe	Guadeloupe	Guadalupe
Guatemala	Guatemala	Guatemala	Guatemala
Haiti	Haiti	Haïti	Haití
Honduras	Honduras	Honduras	Honduras
Jamaica	Jamaica	Jamaïque	Jamaica
Martinique	Martinique	Martinique	Martinica
Montserrat	Montserrat	Montserrat	Montserrat
Nicaragua	Nicaragua	Nicaragua	Nicaragua
Panama	Panama	Panama	Panamá
Puerto Rico	Puerto Rico	Porto Rico	Puerto Rico
St Barth	Saint Barthélemy	Saint Barthélemy	San Bartolomé
St Kitts Nevis	Saint Kitts and Nevis	Saint-Kitts-et-Nevis	Saint Kitts y Nevis
St Lucia	Saint Lucia	Sainte-Lucie	Santa Lucía
St Maarten	Sint Maarten	Saint Martin (partie néerlandaise)	San Martín (parte neerlandesa)
St Martin	Saint Martin	Saint Martin (partie française)	San Martín (parte francesa)
St Vincent Gren	Saint Vincent and the Grenadines	Saint-Vincent-et-les Grenadines	San Vicente y las Granadinas
Trinidad Tobago	Trinidad and Tobago	Trinité-et-Tobago	Trinidad y Tabago
Turks Caicos	Turks and Caicos Islands	Îles Turques-et-Caïques	Islas Turcas y Caicos
US Virgin Is	United States Virgin Islands	Îles Vierges américaines	Islas Vírgenes Estadounidenses
EURASIA	EURASIA	EURASIE	EURASIA
Armenia	Armenia	Arménie	Armenia
Azerbaijan	Azerbaijan	Azerbaïdjan	Azerbaiyán
Georgia	Georgia	Géorgie	Georgia
Russian Fed	Russian Federation	Fédération de Russie	Federación de Rusia
Turkey	Turkey	Turquie	Turquía
EUROPE	EUROPE	EUROPE	EUROPA
Albania	Albania	Albanie	Albania

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 Bulgaria Bulgaria Croatia Croatia Croatia Croprus Cyprus Chipre Czechia Czech Republic République tchèque Repúblic

Czech Republic République tchèque República Checa Czechia Denmark Danemark Dinamarca Denmark 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 Hongrie Hungary Hungary 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 Lituanie Lituania Lithuania Luxembourg Luxembourg Luxemburgo Luxembourg Malta Malta Malte Malta

Moldova Rep Republic of Moldova République de Moldova República de Moldova

Monaco Monaco Mónaco Mónaco

Label/En-tête/Rótulo	English	Français	Español
Montenegro	Montenegro	Monténégro	Montenegro
Netherlands	Netherlands	Pays-Bas	Países Bajos
North Macedonia	North Macedonia	Macédoine du Nord	Macedonia del Norte
Norway	Norway	Norvège	Noruega
Poland	Poland	Pologne	Polonia
Portugal	Portugal	Portugal	Portugal
Romania	Romania	Roumanie	Rumania
San Marino	San Marino	Saint-Marin	San Marino
Serbia	Serbia	Serbie	Serbia
Slovakia	Slovakia	Slovaquie	Eslovaquia
Slovenia	Slovenia	Slovénie	Eslovenia
Spain	Spain	Espagne	España
Sweden	Sweden	Suède	Suecia
Switzerland	Switzerland	Suisse	Suiza
UK	United Kingdom of Great	Royaume-Uni de Grande-	Reino Unido de Gran Bretaña e
	Britain and Northern Ireland	Bretagne et d'Irlande du Nord	Irlanda del Norte
Ukraine	Ukraine	Ukraine	Ucrania
Ukraine MIDDLE EAST	Ukraine MIDDLE EAST	Ukraine MOYEN-ORIENT	Ucrania MEDIO ESTE
MIDDLE EAST	MIDDLE EAST	MOYEN-ORIENT	MEDIO ESTE
MIDDLE EAST Bahrain	MIDDLE EAST Bahrain	MOYEN-ORIENT Bahreïn	MEDIO ESTE Bahréin
MIDDLE EAST Bahrain Iran IR	MIDDLE EAST Bahrain Iran (Islamic Republic of)	MOYEN-ORIENT Bahreïn République islamique d'Iran	MEDIO ESTE Bahréin Irán (República Islámica del)
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MIDDLE EAST Bahrain Iran IR Iraq Israel Jordan Kuwait Lebanon Oman	MIDDLE EAST Bahrain Iran (Islamic Republic of) Iraq Israel Jordan Kuwait Lebanon Oman	MOYEN-ORIENT Bahreïn République islamique d'Iran Iraq Israël Jordanie Koweït Liban Oman	MEDIO ESTE Bahréin Irán (República Islámica del) Iraq Israel Jordania Kuwait Líbano Omán
MIDDLE EAST Bahrain Iran IR Iraq Israel Jordan Kuwait Lebanon Oman Qatar	MIDDLE EAST Bahrain Iran (Islamic Republic of) Iraq Israel Jordan Kuwait Lebanon Oman Qatar	MOYEN-ORIENT Bahreïn République islamique d'Iran Iraq Israël Jordanie Koweït Liban Oman Qatar	MEDIO ESTE Bahréin Irán (República Islámica del) Iraq Israel Jordania Kuwait Líbano Omán Qatar
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MIDDLE EAST Bahrain Iran IR Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia Palestine	MIDDLE EAST Bahrain Iran (Islamic Republic of) Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia State of Palestine	MOYEN-ORIENT Bahreïn République islamique d'Iran Iraq Israël Jordanie Koweït Liban Oman Qatar Arabie saoudite État de Palestine	MEDIO ESTE Bahréin Irán (República Islámica del) Iraq Israel Jordania Kuwait Líbano Omán Qatar Arabia Saudita Estado de Palestina
MIDDLE EAST Bahrain Iran IR Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia Palestine Syrian AR	MIDDLE EAST Bahrain Iran (Islamic Republic of) Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia State of Palestine Syrian Arab Republic	MOYEN-ORIENT Bahreïn République islamique d'Iran Iraq Israël Jordanie Koweït Liban Oman Qatar Arabie saoudite État de Palestine République arabe syrienne	MEDIO ESTE Bahréin Irán (República Islámica del) Iraq Israel Jordania Kuwait Líbano Omán Qatar Arabia Saudita Estado de Palestina República Árabe Siria
MIDDLE EAST Bahrain Iran IR Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia Palestine Syrian AR United Arab Em	MIDDLE EAST Bahrain Iran (Islamic Republic of) Iraq Israel Jordan Kuwait Lebanon Oman Qatar Saudi Arabia State of Palestine Syrian Arab Republic United Arab Emirates	MOYEN-ORIENT Bahreïn République islamique d'Iran Iraq Israël Jordanie Koweït Liban Oman Qatar Arabie saoudite État de Palestine République arabe syrienne Émirats arabes unis	MEDIO ESTE Bahréin Irán (República Islámica del) Iraq Israel Jordania Kuwait Líbano Omán Qatar Arabia Saudita Estado de Palestina República Árabe Siria Emiratos Árabes Unidos

Bermuda Bermuda Bermudes Bermudas Canada Canada Canada Canadá Greenland Greenland Groenland Groenlandia Mexico Mexico Mexique México

St Pierre Mq Saint Pierre and Miquelon Saint-Pierre-et-Miquelon San Pedro y Miquelón
USA United States of America États-Unis d'Amérique Estados Unidos de América

OCEANIA OCEANIA OCÉANIE OCEANÍA

Amer Samoa American Samoa Samoa américaines Samoa americana Australia Australia Australie Australia Île Christmas Isla de Navidad Christmas Is Christmas Island Islas Cocos Îles Cocos Cocos Is Cocos (Keeling) Islands Îles Cook Cook Is Cook Islands Islas Cook Fidji Fidji Fiji Fiji

Fr Polynesia French Polynesia Polynésie française Polinesia francesa Guam Guam Guam Guam Kiribati Kiribati Kiribati Kiribati Islas Marshall Marshall Islands Îles Marshall Marshall Is

Micronesia (Federated States Micronésie (États fédérés de) Micronesia (Estados Federados

of) de) Nauru Nauru Nauru Nauru

New CaledonNew CaledoniaNouvelle-CalédonieNueva CaledoniaNew ZealandNew ZealandNouvelle-ZélandeNueva ZelandiaNiueNiueNiouéNiue

Note Niue Niue Niue Niue Niue Norfolk Isla Norfolk Isla Norfolk

Nth Mariana Is Northern Mariana Islands Îles Mariannes du Nord Islas Marianas del Norte

Palau Palau Palaos Palau

Label/En-tête/Rótulo	English	Français	Español
Papua N Guin	Papua New Guinea	Papouasie-Nouvelle-Guinée	Papua Nueva Guinea
Pitcairn Pitcairn	Pitcairn	Pitcairn	Pitcairn
Samoa	Samoa	Samoa	Samoa
Solomon Is	Solomon Islands	Îles Salomon	Islas Salomón
Tokelau	Tokelau	Tokelau	Tokelau
Tonga	Tonga	Tonga	Tonga
Tuvalu	Tuvalu	Tuvalu	Tuvalu
Vanuatu	Vanuatu	Vanuatu	Vanuatu
Wallis Fut Is	Wallis and Futuna Islands	Wallis-et-Futuna	Wallis y Futuna
S AMERICA	SOUTH AMERICA	AMÉRIQUE DU SUD	SUDAMERICA
Argentina	Argentina	Argentine	Argentina
Bolivia	Bolivia (Plurinational State of)	Bolivie (État plurinational de)	Bolivia (Estado Plurinacional de)
Brazil	Brazil	Brésil	Brasil
Chile	Chile	Chili	Chile
Colombia	Colombia	Colombie	Colombia
Ecuador	Ecuador	Equateur	Ecuador
Falklands Malv	Falkland Islands (Malvinas)	Îles Falkland (Malvinas)	Islas Malvinas (Falkland)
Fr Guiana	French Guiana	Guyane française	Guayana Francesa
Guyana	Guyana	Guyana	Guyana
Paraguay	Paraguay	Paraguay	Paraguay
Peru	Peru	Pérou	Perú
South Georgia	South Georgia and the South	Géorgie du Sud-et-les Îles	Georgia del Sur y las Islas
Curinana	Sandwich Islands	Sandwich du Sud	Sandwich del Sur
Suriname	Suriname	Suriname	Surinam
Uruguay	Uruguay	Uruguay	Uruguay
Venezuela	Venezuela (Bolivarian Republic of)	bolivarienne du)	La República Bolivariana de Venezuela

Source: UN Standard Country or Area Codes for Statistical Use (M49 List) http://unstats.un.org/unsd/methods/m49/m49.htm.

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

Total capacity

Capacité totale

Capacidad total

Total renewable energy Total énergies renouvelables Total energías renovables

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	1 443 923	1 566 148	1 698 319	1 851 651	2 013 932	2 184 709	2 357 495	2 541 688	2 807 265	3 063 926
Africa	28 445	30 648	32 661	34 982	37 643	43 090	48 443	50 575	53 608	55 705
Algeria	253	253	264	312	482	663	686	686	686	686
Angola	883	964	1 032	1 033	1 765	2 458	3 126	3 460	3 794	3 794
Benin	1	1	1	2	3	3	3	3	3	3
Botswana	2	2	2	2	3	3	4	6	6	6
Burkina Faso	38	38	39	41	43	80	95	98	98	98
Burundi	56	57	58	58	59	57	57	57	57	57
Cabo Verde	33	33	33	33	33	33	35	35	35	35
Cameroon	731 19	736	738 19	740	742 19	744	746	826	827	827
Cent Afr Rep Chad	2	19 2	2	19 2	3	19 3	19 3	19 3	19 4	19 4
Comoros	1	1	1	1	1	1	1	1	1	1
Congo DR	2 514	2 515	2 516	2 529	2 545	2 560	2 736	2 746	2 746	2 746
Congo Rep	206	206	207	207	213	227	227	227	227	227
Cote d Ivoire	606	607	608	609	609	887	892	892	892	892
Djibouti	0	0	0	0	0	0	0	0	0	20
Egypt	3 457	3 457	3 457	3 658	3 681	3 802	4 793	5 690	5 966	6 226
Eq Guinea	126	126	126	126	126	126	127	127	127	127
Eritrea	1	1	9	9	9	11	19	21	23	25
Eswatini	186	186	169	169	169	169	169	169	169	179
Ethiopia	2 081	2 224	2 230	2 619	2 649	4 366	4 451	4 451	4 713	4 759
Gabon	172	332	332	333	333	333	333	333	333	333
Gambia Ghana	3 1 187	3 1 590	3 1 594	3 1 624	3 1 630	3 1 640	3 1 670	3 1 677	3 1 700	3 1 700
Guinea	129	132	132	382	382	382	382	382	382	832
Guinea Bissau	129	132	132	0	0	0	1	1	1	1
Kenya	1 0 9 5	1 107	1 278	1 592	1 630	1 668	2 057	2 064	2 243	2 384
Lesotho	75	75	75	75	75	75	75	75	75	75
Liberia	4	4	4	4	26	94	95	95	95	95
Libya	5	5	5	5	5	5	5	5	5	6
Madagascar	165	167	170	173	175	177	197	197	197	197
Malawi	302	305	371	375	376	383	405	466	467	527
Mali	301	363	371	372	373	375	375	375	425	455
Mauritania		22	23	53	69	69	121	122	122	122
Mauritius	142	145	161	171	189	191	230	246	246	246
Mayotte	13	13	13	13	13	15	15	15	18	18
Morocco	1 597 2 201	1 837 2 205	2 143 2 207	2 307 2 211	2 412 2 214	2 540 2 233	3 272 2 273	3 272 2 273	3 452 2 273	3 522 2 273
Mozambique Namibia	342	2 205 345	347	351	383	2 233 427	2 273 445	2 2 7 3 4 9 7	2 273 501	501
Niger	4	5	6	7	8	9	27	27	27	27
Nigeria	2 132	2 133	2 135	2 137	2 139	2 140	2 140	2 149	2 150	2 154
Reunion	345	348	359	380	383	384	386	428	442	454
Rwanda	58	62	77	109	119	127	137	149	159	159
Sao Tome Prn	2	2	2	2	2	3	3	3	3	3
Senegal	31	32	34	34	67	132	173	251	355	421
Seychelles		6	7	7	8	9	10	10	10	15
Sierra Leone	54	55	90	90	91	99	99	99	99	99
Somalia	2	2	2	3	7	10	11	11	19	27
South Africa South Sudan	1 003 0	1 500 0	2 710 0	3 429 0	4 650	6 548 0	7 907	8 011	9 518 1	10 193
Sudan	1 529	1 536	1 538	1 541	0 1 547	1 557	1 1 740	1 1 761	1 798	1 1 817
Tanzania	638	641	652	659	670	675	679	683	685	685
Togo	67	67	67	68	69	69	70	72	73	123
Tunisia	241	272	312	330	340	349	375	391	406	406
Uganda	616	746	766	782	784	827	907	1 177	1 194	1 199
Zambia	1 942	2 302	2 302	2 311	2 431	2 441	2 442	2 538	2 538	2 688
Zimbabwe	854	860	861	878	882	887	1 192	1 198	1 199	1 211
Asia	478 747	553 516	632 768	722 324	813 517	921 480	1 026 530	1 125 936	1 301 016	1 455 712
Afghanistan	289	294	299	303	349	355	355	364	364	372
Bangladesh	291	329	356	382	399	423	439	477	522	567
Bhutan	1 488	1 488	1 488	1 615	1 615	1 615	1 615	2 335	2 335	2 335
Brunei Darsm	1	1	1	1	1	1	1	1	1	5
Cambodia	264	715	973	975	979	1 059	1 410	1 505	1 687	1800
China	302 101	359 516	414 651	479 103	541 016	620 856	695 463	758 844	899 625	1 020 234
Chinese Taipei	3 280	3 501	3 751	4 015	4 411	4 944	5 940	7 480	9 248	11 240
India	60 456	63 589	71 889	78 579	90 411	105 253	118 195	128 428	134 455	147 122
Indonesia	7 489 38 996	8 261	8 417 56 107	8 574 67 496	9 064	9 459	9 805	10 300	10 507 106 862	11 157 111 860
Japan Kazakhstan	38 996 2 578	46 084 2 608	56 103 2 805	67 486 2 893	76 219 2 951	84 187 3 015	91 309 3 369	99 269 4 214	4 997	7 086
Korea DPR	4 262	4 289	4 304	4 490	4 733	4 796	4 828	4 832	4 997	4 917
Korea Rep	3 687	4 330	5 716	7 217	4 733 9 354	11 442	4 626 13 951	4 652 18 054	20 411	24 365
Kyrgyzstan	3 072	3 572	3 671	3 677	3 677	3 689	3 673	3 673	3 677	3 684
Lao PDR	2 923	2 968	3 253	4 355	4 931	5 170	5 521	6 348	7 722	8 489
Malaysia	4 248	5 718	6 397	7 563	7 991	7 339	7 520	7 961	8 570	8 898
Maldives	3	3	5	6	9	12	18	22	28	32
Mongolia	35	85	85	85	97	180	251	276	277	277
Myanmar	2 721	2 865	3 043	3 267	3 346	3 400	3 409	3 452	3 448	3 444
Nepal	725	761	778	834	854	1 000	1 118	1 238	1 375	2 091
Pakistan	7 141	7 563	7 913	8 125	8 802	9 218	12 197	12 349	12 566	12 888

Total renewable energy Total énergies renouvelables Total energías renovables

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Philippines	4 849	4 857	5 281	5 625	6 272	6 424	6 596	6 772	6 986	7 617
Singapore	136	172	209	251	307	327	380	494	554	651
Sri Lanka	1 688	1 729	1 837	1878	1 952	2 049	2 163	2 283	2 403	2 545
Tajikistan	4 811	4 814	5 035	5 033	5 039	5 039	5 153	5 273	5 273	5 274
Thailand	5 677	6 677	7 373	7 902	9 369	10 147	11 215	11 700	11 824	11 885
Timor Leste	1	1	1	1	1	1	1	1	1	1
Turkmenistan	1	1	1	1	1	1	1	1	1	2
Uzbekistan	1822	1 823	1 872	1882	1 883	1 861	1 919	1 912	2 009	2 147
Viet Nam	13 713	14 901	15 263	16 208	17 485	18 217	18 715	26 077	38 379	42 727
C America + Carib	9 510	9 871	10 457	11 908	13 520	14 307	15 073	16 235	16 795	17 352
Anguilla	0	0	1	1	2	2	1	2	2	2
Antigua Barb	0	0	0	3	4	4	9	9	17	17
Aruba	31	32	37	38	38	38	38	38	38	38
Bahamas	1	1	1	1	1	1	1	2	2	2
Barbados	2	2	7	9	20	21	22	35	50	50
Belize	84	84	85	86	102	110	111	103	103	103
BES Islands	11	11	11	11	13	16	17	18	18	18
Br Virgin Is	1	1	1	1	1	1 9	1	1	1	1
Cayman Is Costa Rica	2 153	2 174	2 245	2 359	3 2 894	3 O1O	10 3 075	11 3 144	13 3 124	14 3 189
Cuba	2 153 594	555	2 245 596	629	2 694 610	675	3 075 758	1 085	1 252	1 281
Curacao	30	33	38	40	41	58	738 58	58	60	60
Dominica	7	7	7	7	7	7	7	7	7	7
Dominican Rep	717	723	734	745	872	906	1 053	1 350	1 428	1 532
El Salvador	950	974	1 010	924	982	1 169	1 281	1 486	1 593	1 593
Grenada	930	1	1 010	1	2	2	3	3	4	4
Guadeloupe	138	144	141	148	148	153	158	185	188	199
Guatemala	1 515	1 646	1 775	2 178	2 667	2 753	2 863	2 870	2 870	2 872
Haiti	57	58	58	58	58	59	80	81	81	81
Honduras	751	839	905	1 362	1 469	1 599	1 697	1 741	1853	1 865
Jamaica	96	103	105	108	189	217	217	254	254	254
Martinique	63	65	66	69	71	73	112	128	131	132
Montserrat								0	0	1
Nicaragua	551	556	596	613	661	674	676	733	733	734
Panama	1500	1 548	1 715	2 053	2 164	2 227	2 290	2 320	2 353	2 554
Puerto Rico	248	300	304	435	472	503	508	540	591	721
St Barth					0	0	0	0	0	0
St Kitts Nevis	2	3	4	4	4	4	4	4	4	4
St Lucia	0	0	0	1	1	1	4	4	4	4
St Martin		1	2	3	2	0	0	1	1	1
St Vincent Gren	6	6	6	6	7	7	7	8	8	8
Trinidad Tobago	3	3	3	4	4	4	4	4	4	4
Turks Caicos	_	_	_	0	0	0	0	1	1	1
US Virgin Is	1	1	5	9	9	5	10	10	10	10
Eurasia	76 998	81 330	84 813	88 617	91 668	96 620	100 650	104 442	110 177	115 741
Armenia	1 253	1 292	1 301	1 289	1 316	1 332	1 357	1 389	1 434	1 522
Azerbaijan	1 026	1 125	1 120	1 154	1 184	1 194	1 277	1 291	1 299	1 308
Georgia	2 710	2 734	2 872	2 877	2 936	3 178	3 172	3 461	3 345	3 461
Russian Fed Turkey	49 823 22 186	50 629	51 581 27 940	51 781 31 516	51 787 34 446	52 170 38 746	52 614 42 230	53 913 44 389	54 900 49 199	56 217 53 233
Turkey		25 551								
Europe	395 036	418 841	439 808	464 891	488 495	512 781	537 416	574 735	608 346	647 398
Albania	1 629	1 782	1 726	1 799	1 914	2 049	2 107	2 177	2 307	2 312
Andorra	51	51	51	51	51	51	52	53	54	55
Austria	16 656	17 192	17 839	18 473	19 336	19 596	20 376	20 774	21 126	22 014
Belarus	55 5122	74	81	97	222	300	390	415	492	601
Belgium Bosnia Herzg	5 122 1 702	5 765 1 703	5 993 1 719	6 363 1 725	6 731 1 776	7 428 1 808	8 263 1 886	9 511 1 931	11 283 2 002	12 402 1 977
Bulgaria	4 021	4 076	4 120	4 137	4 143	4 294	4 316	4 322	4 361	4 452
Croatia	2 332	2 475	2 577	2 713	2 793	2 916	2 979	3 068	3 255	3 454
Cyprus	173	192	221	244	252	278	289	322	400	486
Czechia	3 998	4 095	4 170	4 214	4 212	4 272	4 265	4 349	4 402	4 415
Denmark	5 949	6 584	6 750	7 109	7 410	8 194	8 894	8 981	9 357	10 340
Estonia	441	519	561	594	607	615	609	716	829	989
Faroe Islands	48	48	60	60	60	60	56	53	59	59
Finland	5 213	5 516	5 747	6 142	6 746	7 512	7 563	7 890	8 774	9 629
France	37 095	38 692	40 563	42 799	44 845	47 820	50 539	53 463	55 574	59 546
Germany	78 150	83 766	90 325	97 851	104 436	112 514	118 905	125 068	131 731	138 151
Greece	6 570	7 672	8 010	8 138	8 424	8 686	9 020	9 923	10 921	11 520
Hungary	724	749	1 024	1 077	1 048	1 224	1 630	2 288	3 022	3 022
Iceland	2 543	2 652	2 653	2 658	2 659	2 711	2 862	2 869	2 879	2 879
Ireland	1 999	2 227	2 592	2 760	3 117	3 676	4 046	4 529	4 744	4 813
Italy	46 721	48 857	49 526	50 417	51 195	52 128	53 161	54 373	55 493	56 987
Kosovo*	44	44	44	44	81	121	121	139	137	242
Latvia	1 701	1 761	1 778	1 782	1 778	1 796	1 779	1 826	1 826	1 857
Lithuania	451	532	550	698	775	800	853	896	1 038	1 266
Luxembourg	187	211	225	239	301	318	324	386	430	456
Malta Maldava Dan	19	32	58	78 60	98	116	137	160	193	201
Moldova Rep	64	67	69	69	71	82	106	110	112	130

Total renewable energy Total énergies renouvelables Total energías renovables

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montenegro	630	631	655	665	671	750	752	800	821	821
Netherlands	3 473	4 169	4 661	5 738	7 200	7 924	9 867	12 580	18 477	22 954
North Macedonia	599	624	682	716	720	731	740	751	825	963
Norway	31 365	32 002	32 252	32 394	32 814	33 251	34 396	35 912	38 003	39 769
Poland	4 094	5 116	5 638	6 919	7 881	7 982	8 301	9 360	12 275	15 424
Portugal	10 955	11 143	11 573	12 153	13 208	13 541	13 753	14 118	14 208	15 061
Romania	8 354	10 098	11 152	11 212	11 162	11 145	11 169	11 169	11 121	11 138
Serbia	2 363	2 331	2 422	2 439	2 460	2 480	2 694	2 910	2 928	2 964
Slovakia	2 335	2 359	2 380	2 384	2 397	2 385	2 330	2 431	2 376	2 376
Slovenia	1 277	1 367	1404	1 419	1 409	1 479	1 474	1 512	1 612	1 606
Spain	46 436	46 819	46 850	47 708	47 798	47 948	48 283	54 633	57 463	61 517
Sweden	24 293	24 645	25 528	26 869	27 805	28 179	29 180	31 156	31 951	34 525
Switzerland	14 065	14 409	14 638	15 040	16 259	17 049	17 470	17 826	18 337	18 813
UK	15 902	20 027	24 895	30 800	35 433	40 043	44 028	46 800	47 387	50 293
Ukraine	5 241	5 769	6 048	6 105	6 199	6 530	7 455	12 189	13 764	14 921
European Union (27)	319 453	337 355	352 546	371 007	387 887	405 554	423 137	450 726	479 193	511 578
Middle East	13 661	14 452	15 916	15 851	16 723	17 093	18 537	21 557	23 005	24 049
Bahrain	1	1	6	6	7	7	7	10	10	12
Iran IR	9 858	10 380	10 954	10 411	10 783	11 367	11 638	11 803	11 901	11 929
Iraq	2 274	2 304	2 311	2 311	2 311	1 594	1 594	1 594	1 594	1 594
Israel	301	410	623	813	942	1 051	1 353	2 118	2 531	2 614
Jordan	17	17	17	153	514	624	1009	1 588	1 996	2 171
Kuwait	0	3	4	6	33	44	55	106	106	106
Lebanon	285	286	289	296	316	329	352	373	373	373
Oman		1	1	2	2	8	8	59	162	188
Palestine	1	1	3	12	25	35	40	82	117	117
Qatar	39	40	42	42	43	43	43	43	43	43
Saudi Arabia	14	22	24	24	24	37	87	113	113	443
Syrian AR	857	857	1 501	1 579	1 501	1 497	1 499	1 500	1500	1 500
United Arab Em	13	128	136	136	142	356	599	1 919	2 307	2 706
Yemen	1	2	5	60	80	100	250	250	253	253
N America	263 279	272 622	286 380	308 002	331 723	348 336	367 056	388 933	419 978	457 857
Canada	84 363	86 409	89 354	95 457	97 328	98 501	99 807	100 392	100 632	102 932
Greenland Mexico	91 14 781	91 15 202	91 16 626	91 17 409	91 19 072	91 19 920	91 22 132	91 25 126	91 26 306	91 29 443
St Pierre Mq	14 701	13 202	10 020	17 409	19 072	19 920	22 132	23 120	20 300	25 443
USA	164 043	170 920	180 309	195 046	215 233	229 824	245 026	263 324	292 949	325 391
Oceania	22 199	23 715	25 236	26 386	27 344	28 568	30 778	36 037	42 910	45 136
Amer Samoa	2	2	2	2	4	4	5	5	5	5
Australia	14 649	16 068	17 370	18 415	19 339	20 492	22 645	27 826	34 536	36 617
Cook Is	0	1	2	3	3	3	5	5	5	5
Fiji	191	191	191	193	195	209	212	212	212	220
Fr Polynesia	61	65	72	76	79	83	85	89	89	89
Guam	0	1	1	32	35	35	35	35	35	35
Kiribati	0	1	1	2	3	3	3	3	3	3
Marshall Is	0	1	1	1	2	2	2	2	2	2
Micronesia	1	1	1	1	2	2	3	3	3	3
Nauru	0	0	0	0	1	1	1	2	2	2
New Caledon	119	119	120	123	125	142	145	178	199	199
New Zealand	6 841	6 930	7 133	7 173	7 186	7 207	7 251	7 285	7 425	7 562
Niue	0	0	0	0	0	0	0	1	1	1
Palau	1	1	1	1	1	1	2	2	2	2
Papua N Guin	313	314	314	333	333	333	333	335	335	335
Samoa	9	9	13	14	17	27	27	28	29	29
Solomon Is	1	1	2	2	3	4	4	4	4	4
Tokelau	1	1	1	1	1	1	1	1	1	1
Tonga	1	2	2	3	3	6	6	8	8	8
Tuvalu Vanuatu	0 7	0 7	0 8	2 8	2 9	2 10	2 11	2 12	2 12	2 12
S America	156 047	161 153	170 280	178 690	193 299	202 433	213 012	223 237	231 432	244 975
Argentina	10 528	10 590	10 606	10 655	10 670	10 757	11 510	12 690	14 072	15 027
Bolivia	591	592	628	638	669	796	923	1 057	1068	1 2 3 3
Brazil	96 117	99 835	106 445	112 641	121 374	128 417	136 579	144 552	150 046	159 943
Chile	7 056	7 678	8 329	8 452	9 299	10 289	10 856	11 498	12 619	14 890
Colombia	9 979	10 075	11 134	11 757	11 888	12 071	12 194	12 291	12 387	12 553
Ecuador	2 368	2 388	2 440	2 599	4 640	4 714	5 266	5 277	5 298	5 300
Falklands Malv	2	2	2	2	2	2	2	2	2	2
Fr Guiana	157	158	158	168	168	168	168	171	179	179
Guyana	54	55	55	55	46	48	51	53	53	53
Paraguay	8 810	8 849	8 849	8 849	8 849	8 849	8 849	8 832	8 832	8 832
Peru	3 713	3 784	4 055	4 647	5 725	5 820	6 100	6 289	6 345	6 431
South Georgia	0	0	0	0	0	0	0	0	0	0
Suriname	181	181	186	188	188	189	190	190	191	191
Uruguay	1834	2 012	2 437	2 825	3 184	3 716	3 727	3 736	3 741	3 741
Venezuela	14 656	14 954	14 955	15 214	16 597	16 597	16 596	16 598	16 598	16 598

Hydropower Hydroélectricité Hidroeléctrica

Month	CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Angelia 228 228 228 228 228 228 228 228 228 228 228 3.06 3.395 3.795 3	World	1 090 111	1 137 100	1 175 994	1 210 655	1 245 903	1 270 876	1 293 619	1 311 765	1 335 114	1 360 054
August	Africa	27 371	28 565	28 653	29 181	31 107	34 215	35 595	36 312	36 921	37 525
Defin	-										
Bustred 152 252 252 252 252 252 252 252 253 253 254 264 264 264 264 264 264 264 264 265	-										
Second S											
Cerest Force 729 733 733 733 735 732 732 812 812 812 812 624											
Cent Jack 19											
Compone											
Conign Pay 194 194 194 194 201 214 214 214 214 215 2	•										
Control Cont	Congo DR	2 514	2 515	2 515	2 528	2 542	2 553	2 713	2 723	2 723	2 723
Esynt 2800	Congo Rep		194								
Exclusion Color											
Exhaptin 62											
Embergin 1977 1972 1972 2199 2199 5.8877 3.887 3.897 4.071 4.071 6.050 6.050 170 330											
Gabran 1180 1180 1180 1180 1180 1180 1180 118											
Columba 1800 1580 1580 1584											
Summon 128 128 228 368 3											
Lescinto											
Liberia		814	822	822	828	832	843	846	851	851	851
Madagwara 162	Lesotho	75	75	75	75	75	75	75	75	75	75
Maliwi	Liberia	-									
Mali											
Monrocco											
Memoraco											
Mozambique 2186 2186 2186 2187 2187 2 204 2 20											
Namibia 330 330 330 330 347 347 347 347 347 351 351 Nilyeria 2110 2110 2110 2111											
Ngeria 1710 2110 2110 2111											
Reunino											
Sape Time Person	-	133	134	134	134	133	133	133	133	133	133
Sierra Leone	Rwanda	57	60	66	94	98	99	99	110	120	120
South Africa 2135 2135 2135 2135 2135 2136 3140 3 48											
Sudan 1322 1322 1322 1322 1322 1322 1482											
Tanzania											
Togo											
Tunisia											
Uganda											
Zimbabwe											
Asia 414 318 451 248 479 635 500 107 516 267 531 202 544 168 554 578 569 777 594 269 Afghanistan 273 277 280 284 329 333 333 333 333 340 Bandladesh 220 230 <											
Afghanistan 273 277 280 284 329 333 230 250 <th< td=""><td>Zimbabwe</td><td>753</td><td>758</td><td>758</td><td>773</td><td>777</td><td>781</td><td>1 081</td><td>1 081</td><td>1 081</td><td>1 081</td></th<>	Zimbabwe	753	758	758	773	777	781	1 081	1 081	1 081	1 081
Banjaldelsh 220 23	Asia	414 318	451 248	479 635	500 107	516 267	531 202	544 168	554 578	569 777	594 269
Bhutan 1488	•										
Cambodia 225 683 929 930 930 980 1330 390 20 Chinese Faipei 4 683 4 683 4 691 4 691 4 694 4 695 4 695 4 696 161 669 1669 160 4 691 4 694 4 695 4 695 4 696 1766 161 6602 1566 1510 50 279 50 764 1565 1565 Indication 181 600 1565 1565 160 50 30 50 012 50 279 50 764 51565 1565 160 160 30 50 764 51565 1565 160 50 77 50 70 50 73 50 73 50 74 40 40 40 40 40 40	•										
China 249 470 280 440 304 860 319 530 332 070 343 775 352 261 358 040 370 280 399 920 Chinese Taipei 4 683 4 683 4 683 4 681 4 691 4 691 4 694 4 695 4 695 4 696 India 43 031 44 174 42 40 522 5 366 5 703 5 773 5 976 6 141 6 602 Japan 48 934 48 932 5 00 505 5 0 117 5 00 50 5 0 175 5 00 50 5 00 50 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 5 0 750 6 0 70 <											
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India											
Indonesia											
Japan 48 934 48 932 49 597 50 035 50 117 50 014 50 037 50 033 50 041 50 019 Kazakhstan 2 574 2 588 2 675 2 678 2 696 2 726 2 756 2 778 2 785 3 066 Korea Pep 6 447 4 260 4 283 4 293 4 467 4 701 4 761 4 790 4 790 4 865 4 865 Korea Rep 6 447 6 452 6 467 6 471 6 485 6 489 6 490 6 509 6 506 6 541 Kyrgyzstan 3 072 3 572 3 671 3 677 3 689 5122 5 382 6 209 7 583 8 349 Malaysia 3 449 4 535 4 761 5 742 6 121 6 145 6 165 6 185 6 197 6 211 Mongolia 29 29 29 29 3 3 3 304 3 304 3 304 Myanmar 2 673 2 812 2 985 3 198 3 264<											
Korea DPR 4 260 4 283 4 293 4 467 4 701 4 761 4 790 4 790 4 865 4 865 Korea Rep 6 447 6 452 6 467 6 471 6 485 6 489 6 490 6 509 6 506 6 541 Kyrgyzstan 3 072 3 572 3 671 3 677 3 677 3 689 3 673 3 673 3 673 3 673 3 673 3 673 3 673 3 673 3 677 3 689 3 673 3 677 3 689 3 673 3 677 3 684 4 809 5122 5 382 6 209 7 583 8 349 Malaysia 3 449 4 535 4 761 5 742 6 121 6 145 6 165 6 185 6 197 6 211 Mongolla 29 29 29 29 3 1 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31	Japan	48 934									50 019
Korea Rep 6 447 6 452 6 467 6 471 6 485 6 489 6 490 6 509 6 506 6 541 Kyrgyzstan 3 072 3 572 3 671 3 677 3 689 3 673 3 673 3 673 3 673 3 683 Malaysia 3 449 4 535 4 761 5 742 6 121 6 145 6 165 6 185 6 197 6 211 Mongolia 29 29 29 29 31					2 678		2 726			2 785	
Kyrgyzstan 3 072 3 572 3 671 3 677 3 689 3 673 3 673 3 677 3 684 Lao PDR 2 922 2 928 3 212 4 313 4 889 5 122 5 382 6 209 7 583 8 349 Malaysia 3 449 4 535 4 761 5 742 6 121 6 145 6 165 6 185 6 197 6 211 Mongolia 2 9 29 29 29 31											
Lao PDR 2 922 2 928 3 212 4 313 4 889 5 122 5 382 6 209 7 583 8 349 Malaysia 3 449 4 535 4 761 5 742 6 121 6 145 6 165 6 185 6 197 6 211 Mongolia 29 29 29 29 31											
Malaysia 3 449 4 535 4 761 5 742 6 121 6 145 6 165 6 185 6 197 6 211 Mongolia 29 29 29 29 31 304 3											
Mongolia 29 29 29 29 31 304 <											
Myanmar 2 673 2 812 2 985 3 198 3 264 3 304 3 623 3 632 3 632 3 632 3 712 1 747 1 798 1 815 1 799 1 799 <											
Nepal 709 744 759 814 834 939 1 059 1 180 1 302 1 992 Pakistan 6 777 7 088 7 218 7 218 7 248 7 400 9 900 9 917 10 037 10 037 Philippines 3 579 3 579 3 594 3 613 3 623 3 632 3 719 3 761 3 780 3 785 Sri Lanka 1 590 1 622 1 670 1 689 1 728 1 747 1 798 1 815 1 799 <td>-</td> <td></td>	-										
Pakistan 6 777 7 088 7 218 7 218 7 248 7 400 9 900 9 917 10 037 10 037 Philippines 3 579 3 579 3 594 3 613 3 623 3 632 3 719 3 761 3 780 3 785 Sri Lanka 1 590 1 622 1 670 1 689 1 728 1 747 1 798 1 815 1 799 1 799 Tajikistan 4 811 4 814 5 035 5 033 5 039 5 153 5 273 5 273 5 274 Thailand 3 568 3 575 3 608 3 639 3 649 3 649 3 667											
Sri Lanka 1590 1622 1670 1689 1728 1747 1798 1815 1799 1799 Tajikistan 4 811 4 814 5 035 5 033 5 039 5 039 5 153 5 273 5 273 5 274 Thailand 3 568 3 575 3 608 3 639 3 649 3 649 3 667 3 67 3 67 3 67 <td></td>											
Tajikistan 4 811 4 814 5 035 5 033 5 039 5 039 5 153 5 273 5 273 5 274 Thailand 3 568 3 575 3 608 3 639 3 649 3 649 3 667 3 67 3 67 3 67 3 67 7 903 8 046 8 147 8 266 8 306 Belize 55											
Thailand 3 568 3 575 3 608 3 639 3 649 3 649 3 667 0 0 0											
Timor Leste 0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
Turkmenistan 1 2 2 043 Viet Nam 13 552 14 718 15 069 15 905 17 131 17 809 17 989 20 326 20 817 21 582 C America + Carib 6 265 6 355 6 578 6 850 7 667 7 903 8 046 8 147 8 266 8 306 Belize 55											
Uzbekistan 1 822 1 822 1 871 1 880 1 880 1 858 1 915 1 908 2 005 2 043 Viet Nam 13 552 14 718 15 069 15 905 17 131 17 809 17 989 20 326 20 817 21 582 C America + Carib 6 265 6 355 6 578 6 850 7 667 7 903 8 046 8 147 8 266 8 306 Belize 55 2 379 2 343 2 332 2 379 2 379 2 32 2 379 2 32 2 379 2 32 2 32 2 379 2 32 2 32 2 379 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 2 32 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Viet Nam 13 552 14 718 15 069 15 905 17 131 17 809 17 989 20 326 20 817 21 582 C America + Carib 6 265 6 355 6 578 6 850 7 667 7 903 8 046 8 147 8 266 8 306 Belize 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 2 379 2 343 2 332 2 379 2 379 2 343 2 332 2 379 2 32 2 379 2 343 2 343 2 32 2 379 2 379 2 343 2 343 2 32 2 379 2 343 2 343 2 32 2 379 2 343 2 344 2 344 2 479											
Belize 55 65 65 66 66 66 64 72 72 72 72 72 72 72 72 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
Costa Rica 1749 1762 1782 1811 2 256 2 350 2 373 2 343 2 332 2 379 Cuba 62 63 63 63 66 66 64 72 72 72 Dominica 7 7 7 7 7 7 7 7 7 7 7 7 7 617 617 617 617 618 625 625	C America + Carib	6 265	6 355	6 578	6 850	7 667	7 903	8 046	8 147	8 266	8 306
Cuba 62 63 63 63 66 66 64 72 72 72 Dominica 7 618 625 625 625											
Dominica 7 9 8 9 9 9<											
Dominican Rep 613 614 617 617 617 617 617 618 625 625											

Hydropower Hydroélectricité Hidroeléctrica

Constrollame	CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Helin 156	Guadeloupe	9	9	9	9	9	11	11	11	11	11
Semination 1.23											
Personan 1.469											
Parsemin 1469 1494 1623 1775 1776 1777 1776 1808 1808 786 51 Vincentification 100 808 80											
Part No. P											
Europe											
Arterinia 1249 1289 1298 1297 1312 1327 1336 1336 1336 1336 1336 Activation 1023 1094 1079 1103 1105 1105 1106 1106 1131 1149	St Vincent Gren	6	6	6	6	6	6	6	6	6	6
Accompine 10.73	Eurasia	74 340	77 952	80 223	82 610	83 479	84 566	85 705	86 718	89 220	89 922
Georgia 27/10 27/34 28/17 28/17 29/16 31/52 34.94 3.323 34.94 3.522 34.94 3.522 34.94 3.525 34.94 3.525 34.94 3.525 34.94 3.525 34.94 3.525 34.94 3.525 34.94 3.525 34.94 3.525 34.94 3.525 3.											
Bustins Fed March Marc											
Europe 209 203 21130 21180 21800 21 432 27 80 27 57 28 29 29 22 50 3 29 43 433 493 Europe 209 203 21130 21180 21180 21 432 27 80 219575 220 613 22 530 22 560 22 40 67 Albusia 1628 46 46 46 46 46 46 46 46 46 46 46 46 46	•										
Part											
Albania 1628 1781 1725 1798 1913 2047 2105 2162 2289 2289 Androra 46 46 46 46 46 46 46 46 46 46 46 46 46	_										
Anchorn	•										
Bustanta 13 309 13 838 13 532 13 650 14 16 14 150 14 516 14 507 14 605 14 546 Belgium 32 32 33 34 74 795 95 95 96 96 96 96 96											
Belsnin											
Belging											
Bosnia Herry 2 12 2 12 2 2 3 3 2 3 3 2 3 3											
Croatis	-										
Czechia 2 212 2 252 2 252 2 260 2 262 2 265 2 264 2 265 2	Bulgaria	3 181	3 203	3 219	3 219	3 223	3 372	3 379	3 378	3 376	3 376
Demmark											
Estonis											
Faree Islands											
Finland											
France											
Germany 11257 11259 11254 11255 11207 11120 10.684 10.733 10.792 10.683											
Greece 3 226											
Incland 1877 1984 1984 1987 1987 1995 2099 2049 2104 2114 2114 Irchand 529	•										
Ireland 529	Hungary								58	58	
Lally											
Noswor											
Lativia 1576 1587 1588 1588 1564 1564 1565 1587 1586 1596 1596 1596 Librania 876 876 877 877 877 877 877 877 877 877											
Lithuania 876 876 877 877 877 877 877 877 8878 886 Luxembourg 1114 1114 1330 1330 1330 1330 1330 1330											
Lumemburg											
Moldova Repro 64 64 64 64 64 64 64 6											
Netherlands	Moldova Rep	64	64	64	64	64	64	64	64	64	64
North Macedonia 595	-										
Norway											
Poland											
Portugal 5712 5661 5715 6168 6960 7226 7236 7262 7241 7241 Romania 6548 6610 6613 6730 6734 6692 6701 6686 6652 6655 Serbia 2966 2931 3017 3022 3030 3038 3045 3074 3082 3097 Slovakia 2522 2523 2523 2522 2524 2523 2526 2527 2529 2529 Slovakia 1254 1299 1296 1295 1293 11347 11343 11351 1352 13588 Spain 18550 19185 19223 20053 20080 20079 20080 20114 20117 20116 Sweden 16414 16494 15996 16329 16466 16502 16431 16462 16406 16406 Switzerland 13803 13817 13744 113815 114806 115353 15542 15574 15594 15594 UK 4437 4453 4474 4677 4733 4773 4773 4773 4775 4793 Ukraine 5470 5489 5851 5883 6079 6213 6243 6325 6328 6656 European Union (27) 145 205 146 311 146 468 148 457 149 976 150 628 150 630 151 060 151 035 150 908 164 184 144 184 144 190 1490 01 0490 01 0490 01 0490 01 0490 01 0490 01 0490 01 060											
Romania											
Serbia 2 966 2 931 3 017 3 022 3 030 3 038 3 043 3 074 3 082 3 097 Slovakia 2 522 2 523 2 523 2 522 2 524 2 523 2 528 2 527 2 529 2 529 Slovenia 1 254 1 299 1 296 1 295 1 293 1 347 1 343 1 351 1 352 1 358 Spain 18 550 19 185 19 223 20 053 20 080 20 079 20 080 20 114 20 117 20 116 Sweden 16 6416 16 440 16 490 16 329 16 466 16 502 16 431 16 462 16 406 16 406 50 40 50 40 15 594 15 594 15 594 15 594 15 594 10 594 15 594 14 806 15 353 15 542 15 574 15 594 15 594 10 594 15 695 18 609 15 506 15 503 15 542 15 574 15 594 15 594 16 508 15 594 17 77 477	•										
Slovakia 2 522 2 523 2 523 2 522 2 524 2 523 2 526 2 527 2 529 2											
Spain 18 550 19 185 19 223 20 053 20 080 20 079 20 080 20 114 20 117 20 116 Sweden 16 414 16 494 15 996 16 329 16 466 16 502 16 431 16 462 16 406 16 502 Switzerland 13 803 13 817 13 744 13 815 14 806 15 353 15 542 15 574 15 594 15 594 UK 4 437 4 453 4 474 4 677 4 733 4 770 4 773 4 773 4 775 4 793 Ukraine 5 470 5 489 5 851 5 883 6 079 6 213 6 243 6 325 6 328 6 656 European Union (27) 145 205 146 311 146 468 148 457 149 976 150 628 150 630 151 060 151 035 150 908 Middle East 13 410 13 930 15 094 15 669 15 891 15 545 15 691 15 774 16 084 16 084 Iran IR 9 745 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2 528</td> <td>2 527</td> <td></td> <td></td>								2 528	2 527		
Sweden 16 414 16 494 15 996 16 329 16 466 16 502 16 431 16 462 16 406 16 406 Switzerland 13 803 13 817 13 744 13 815 13 744 13 815 15 574 15 594 17 75 4 773 4 773 4 773 4 775 4 793 Ukraine 5 470 5 489 5 851 5 883 6 079 6 213 6 243 6 325 6 328 6 656 European Union (27) 145 205 146 311 146 468 148 457 149 976 150 628 150 630 151 060 151 035 150 908 Middle East 13 410 13 930 15 094 15 669 15 891 15 545 15 691 15 774 16 046 16 084 16 084 16 084 16 084 16 0											
Switzerland 13 803 13 817 13 744 13 815 14 806 15 353 15 542 15 574 15 594 15 594 UK 4 437 4 453 4 474 4 677 4 733 4 770 4 773 4 773 4 775 4 793 Ukraine 5 470 5 489 5 851 5 883 6 079 6 213 6 243 6 325 6 328 6 656 European Union (27) 145 205 146 311 146 468 148 457 149 976 150 628 150 630 151 060 151 035 150 908 Middle East 13 410 13 930 15 094 15 669 15 891 15 545 15 691 15 774 16 084 16 084 Iran IR 9 745 10 265 10 785 11 278 11 578 11 953 12 099 12 182 12 193 12 193 Iran IR 9 745 10 265 10 785 11 278 11 578 11 953 12 099 12 182 12 193 12 193 Iran IR 9 745 </td <td></td>											
UK 4 437 4 453 4 474 4 677 4 733 4 770 4 773 4 775 4 795 Ukraine 5 470 5 489 5 851 5 883 6 079 6 213 6 243 6 325 6 328 6 656 European Union (27) 145 205 146 311 146 468 148 457 149 976 150 628 150 630 151 060 151 035 150 908 Middle East 13 410 13 930 15 094 15 669 15 891 15 545 15 691 15 774 16 084 16 084 Iran IR 9 745 10 265 10 785 11 278 11 578 11 953 12 099 12 182 12 193 12 193 Iraq 2 514 2 514 2 514 2 514 2 514 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 1 797 7 7 7 7 7 7 7 7 7 7 7 7											
Ukraine 5 470 5 489 5 851 5 883 6 079 6 213 6 243 6 325 6 328 6 656 European Union (27) 145 205 146 311 146 468 148 457 149 976 150 628 150 630 151 060 151 035 150 908 Middle East 13 410 13 930 15 094 15 669 15 891 15 545 15 691 15 774 16 084 16 084 Iran IR 9 745 10 265 10 785 11 278 11 578 11 953 12 099 12 182 12 193 12 193 Iraq 2 514 2 514 2 514 2 514 2 514 17 7 7 7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Middle East 13 410 13 930 15 094 15 669 15 891 15 545 15 691 15 774 16 084 16 084 Iran IR 9 745 10 265 10 785 11 278 11 578 11 953 12 099 12 182 12 193 12 193 Iraq 2 514 2 514 2 514 2 514 2 514 1 797 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 <											
Iran IR	European Union (27)	145 205	146 311	146 468	148 457	149 976	150 628	150 630	151 060	151 035	150 908
Iraq 2 514 2 514 2 514 2 514 2 514 2 514 2 514 2 514 1 797 7 7 7 7 7 306 306 306 306 306 306 306 306 306 306 306 306 306 306 306 307 307 1490	Middle East	13 410	13 930	15 094	15 669	15 891	15 545	15 691	15 774	16 084	16 084
Iraq 2 514 2 514 2 514 2 514 2 514 2 514 2 514 2 514 1 797 7 7 7 7 7 7 7 7 7 7 306 306 306 306 306 306 306 306 306 306 306 307 306 308 308 282 <	Iran IR	9 745	10 265	10 785	11 278	11 578	11 953	12 099	12 182	12 193	12 193
Jordan 12 12 12 12 16 <th< td=""><td>Iraq</td><td>2 514</td><td>2 514</td><td>2 514</td><td>2 514</td><td>2 514</td><td>1 797</td><td>1 797</td><td>1 797</td><td>1 797</td><td>1 797</td></th<>	Iraq	2 514	2 514	2 514	2 514	2 514	1 797	1 797	1 797	1 797	1 797
Lebanon 282											
Syrian AR 850 850 1 494 1 572 1 494 1 490 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
N America 188 361 188 824 190 191 193 959 195 667 196 268 196 931 196 810 199 933 197 396 Canada 75 537 75 511 75 474 79 405 80 304 80 831 81 396 81 399 81 404 82 740 Greenland 91 91 91 91 91 91 91 91 91 91 91 91 91											
Canada Greenland 75 537 75 511 75 474 79 405 80 304 80 831 81 396 81 399 81 404 82 740 Greenland 91<											
Greenland 91											
USA 101 107 101 589 102 162 102 240 102 692 102 703 102 801 102 649 105 767 101 894 Oceania 14 153 14 165 14 166 14 184 14 184 14 189 14 441 14 450 14 453 14 453 Australia 8 271 8 271 8 271 8 271 8 271 8 523 8 523 8 523 Fiji 139 138 138 138 138 138 138 138 138											
Oceania 14 153 14 165 14 166 14 184 14 184 14 189 14 441 14 450 14 453 14 453 Australia 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 523 8 523 8 523 8 523 8 523 8 523 8 523 138 13											
Australia 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 271 8 523											
Fiji 139 138 138 138 138 138 138 138 138 138											

Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Micronesia			1	1	1	1	1	1	1	1
New Caledon	78	78	78	78	78	78	78	78	81	81
New Zealand	5 368	5 381	5 381	5 381	5 381	5 381	5 381	5 389	5 389	5 389
Papua N Guin	240	240	240	258	258	258	258	258	258	258
Samoa	9	9	9	9	9	12	13	14	14	14
Solomon Is	0	0	0	0	0	0	0	0	0	0
Vanuatu	1	1	1	1	1	1	1	1	1	1
S America	142 690	144 931	149 575	153 663	163 748	167 414	172 429	177 436	177 804	178 033
Argentina	11 110	11 110	11 112	11 182	11 244	11 247	11 292	11 314	11 348	11 350
Bolivia	501	501	494	495	495	620	666	736	736	736
Brazil	84 294	86 019	89 194	91 651	96 930	100 333	104 482	109 143	109 318	109 426
Chile	5 993	6 095	6 446	6 500	6 672	6 685	6 680	6 683	6 773	6 807
Colombia	9 777	9 868	10 900	11 501	11 611	11 731	11 842	11 926	11 954	11 954
Ecuador	2 264	2 264	2 248	2 408	4 447	4 516	5 066	5 076	5 098	5 099
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	3 479	3 544	3 651	4 139	5 179	5 112	5 230	5 387	5 406	5 490
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	14 881	14 881	15 138	16 521	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)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	984 506	1 029 368	1 066 520	1 098 751	1 128 966	1 151 032	1 173 258	1 191 156	1 211 092	1 230 040
Africa	25 507	26 701	26 789	27 317	28 244	31 019	32 399	33 116	33 725	34 329
Algeria	228	228	228	228	228	228 e	228 e	228 e	228 e	228 e
Angola	873 u	953 u	969 u	969 e	1700 u	2 393 u	3 061 e	3 395 e	3 729 e	3 729 e
Benin	1	1	1	1	1	1	1	1 e	1 e	1 e
Burkina Faso Burundi	32 o 51 o	32 o 51 o	32 o 51 o	32 o 51 o	32 o 51 o	32 o 48 e	32 e 48 e	35 e 48 e	35 e 48 e	35 e 48 e
Cameroon	729 e	733 o	733 e	733 e	733 e	732 e	732 e	812 e	812 e	812 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	2 515 e	2 515 e	2 528 e	2 542 e	2 553 e	2 713 u	2 723 e	2 723 e	2 723 e
Congo Rep	194 e	194 e	194 e	194 e	201 u	214 u	214 u	214 e	214 e	214 e
Cote d Ivoire Egypt	604 o 2 800 o	604 o 2 800 o	604 o 2 800 o	604 o 2 800 o	604 o 2 800 o	879 u 2 800 o	879 e 2 832 o	879 e 2 832 o	879 e 2 832 e	879 e 2 832 e
Eq Guinea	126 o	126 o	126 o	126 o	126 o	126 e	127 o	127 e	127 e	127 e
Eswatini	62	62	62	62	62 e	62 e	62 e	62 e	62 e	62 e
Ethiopia	1 972 e	1972 e	1972 e	2 159 e	2 159	3 817	3 817 e	3 817 e	4 071	4 071
Gabon	170 e	330 e	330 e	330 e	330 e	330 e	330 e	330 e	330 e	330 e
Ghana	1180 o	1580 o	1 580 o	1584 o	1584 o	1584 o	1584 e	1584 e	1584 o	1584 e
Guinea	128 o 814 e	128 o 822 e	128 o 822 e	368 o 828 e	368 o 832 e	368 e 843 e	368 e 846 e	368 e 851 e	368 e 851 e	818 e 851 e
Kenya Lesotho	75	75	75	75 e	75 e	75 e	75 e	75 e	75 e	75 e
Liberia	4 e	4 e	4 e	4 e	26 e	92 e	92 e	92 e	92 e	92 e
Madagascar	162 o	162 o	163 o	164 o	164 o	164 e	164 e	164 e	164 e	164 e
Malawi	287 e	287 e	351 e	351 e	352 e	352 e	367 e	374 e	374 e	374 e
Mali	253 e	315 e	315 e	315 e	315 e	315 e	315 e	315 e	315 e	315 e
Mauritius	60 1.706	61 1.706	61	61	61 o	61 e	61 e	61 e	61 e	61 e 1 306 e
Morocco Mozambique	1 306 2 186 e	1 306 2 186 e	1 306 2 186 e	1 306 2 187 e	1 306 2 187 e	1 306 2 204 e	1 306 2 204 e	1 306 e 2 204 e	1306 e 2204 e	2 204 e
Namibia	330	330	330	330	347	347 o	347 o	347	351 u	351 e
Nigeria	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	2 111 e
Reunion	133 o	134 o	134 o	134 o	133 o	133 o	133 e	133 e	133 e	133 e
Rwanda	57 o	60 o	66 o	94 o	98 o	99 e	99 e	110 e	120 e	120 e
Sao Tome Prn	2 0	2 0	2 0	2 0	2 e	2 e	2 e	2 e	2 e	2 e
Sierra Leone South Africa	54 e 735 e	54 e 735 e	56 e 733 e	56 e 748 e	56 e 748 e	61 e 748 e	61 e 748 e	61 e 748 e	61 e 748 e	61 e 752 e
Sudan	1 322 o	1 322 o	1 322 o	1 322 o	1 322 o	1 322 o	1 482 o	1 482 o	1 482 o	1 482 e
Tanzania	571 e	571 e	571 e	576 e	582 e	583 e	583 e	589 e	589 e	589 e
Togo	67 o	67 o	67 o	67 o	67 o	67 o	67 o	67 e	67 e	67 e
Tunisia	62 o	62 o	62 o	62 o	62 o	62 o	66 o	66 o	66 o	66 o
Uganda	582 o	692 e	692 e	695 e	695 e	707 e	744 e	1004 e	1 011 e	1 011 e
Zambia	1 900 o 753	2 260 o 758	2 260 o	2 268 o	2 388 o 777 e	2 398 o 781 e	2 398 0	2 399 e 1 081 e	2 399 e	2 549 e 1 081 e
Zimbabwe	/55	/56	758	773 e	/// e	761 E	1 081 e	1061 e	1081 e	1061 e
Asia	359 483	395 212	422 417	441 769	454 270	466 534	478 900	489 011	504 179	522 601
Afghanistan	273 e	277 e	280 e	284 e	329 e	333 e	333 e	333 e	333 e	340 e
Bangladesh Bhutan	220 o 1 488 o	230 o 1 488 o	230 o 1 488 o	230 o 1 614 o	230 o 1 614 o	230 o 1 614 o	230 e 1 614 o	230 o 2 334 u	230 o 2 334 e	230 o 2 334 e
Cambodia	225 0	683 o	929 0	930 o	930 o	980 o	1 330 o	1 330 e	1 3 3 0 o	1 330 e
China	229 138	258 908	282 750	296 500	305 380	314 385	322 271	327 750 o	339 960 o	354 530 o
Chinese Taipei	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	2 094 o
India	38 245 e	39 388 e	40 621 e	42 319 e	42 836 e	44 735 e	45 316 e	45 494 o	45 979 e	46 779 e
Indonesia	4 156 e	5 177 e	5 242 e	5 322 e	5 666 e	5 703 e	5 773 o	5 976 o	6 141 o	6 602 o
Japan Kazakhstan	27 815 2 574 o	27 813 2 588 o	27 873 2 675	28 111 2 678	28 193 2 696	28 120 e 2 726	28 143 e 2 756 u	28 139 o	28 147 o 2 785	28 125 o 3 066 o
Kazakhstan Korea DPR	4 260 o	4 283 o	4 293 o	4 467 o	4 701 o	4 761 o	4 790 o	2 778 e 4 790 o	4 865 o	4 865 e
Korea Rep	1747	1 752	1 767	1 771	1 785	1 789	1790	1809	1806 o	1 841 o
Kyrgyzstan	3 072	3 572	3 671	3 677	3 677	3 689	3 673 o	3 673 e	3 677	3 684 u
Lao PDR	2 922 u	2 928 u	3 212 u	4 313 u	4 889 u	5 122 u	5 382 u	6 209 e	7 583 e	8 349 e
Malaysia Mongolia	3 449 e 29 e	4 535 e 29 e	4 761 e 29 e	5 742 e 29 e	6 121 e 31 e	6 145 e 31 e	6 165 e 31 o	6 185 e 31 e	6 197 e 31	6 211 e 31 e
Myanmar	29 e 2 673 e	29 e 2 812 e	29 e 2 985 e	3 198 e	3 264 e	3 304 e	3 304 e	3 304 e	3 304 e	3 304 e
Nepal	709 o	744 o	759 o	814 o	834 o	939 o	1059 e	1 180 e	1302 e	1992 e
Pakistan	6 777 e	7 088 e	7 218 e	7 218 e	7 248 e	7 400 e	9 900 e	9 917 e	10 037 e	10 037 e
Philippines	2 843 o	2843 o	2 858 o	2 877 o	2 887 o	2 896 o	2 983 o	3 025 o	3 044 o	3 049 e
Sri Lanka	1590 e	1 622 e	1670 e	1689 e	1728 e	1747 e	1798 e	1 815 e	1799 e	1799 e
Tajikistan Thailand	4 811 3 008 o	4 814 3 015 o	5 035 3 048 o	5 033 o 3 079 o	5 039 3 089 o	5 039 3 089 o	5 153 e 3 107 o	5 273 e 3 107 o	5 273 3 107 o	5 274 e 3 107 e
Timor Leste	0 0	0 0	3 046 0 0 e	3 0 / 9 0 0 e	0 e	0 e	0 e	0 e	0 e	0 e
Turkmenistan	1	1	1	1	1	1	1	1 e	1	2 e
Uzbekistan	1 822	1 822	1 871	1880	1880	1 858	1 915 o	1908	2 005	2 043 e
Viet Nam	13 552 e	14 718 e	15 069 e	15 905 e	17 131 e	17 809 e	17 989 e	20 326 e	20 817 e	21 582 e
C Amories + C - 1	C 205	C 755	C F70	C 050	7 667	7.007	0.040	0.147	0.200	0.700
C America + Carib	6 265	6 355	6 578	6 850	7 667	7 903	8 046	8 147	8 266	8 306
Belize	55	55	55	55	55	55	55	55	55	55 e
Costa Rica	1 749	1 762	1 782	1 811	2 256	2 350	2 373 o	2 343 o	2 332 o	2 379 o
Cuba	62	63	63	63	66	66	64 o	72 o	72 u	72
Dominica Dominican Rep	7 o 613 o	7 o 614 o	7 o 617 o	7 o 617 o	7 o 617 o	7 o 617 o	7 o 617 e	7 o 618 e	7 o 625 o	7 e 625 e
El Salvador	487 e	487 e	488 e	494 e	494 e	574 e	574 e	573 o	573 e	625 e 573 e
00.,000	-,∪/ E	-,∪/ E	-50 6	43 4 C	-J- C	5,7 0	3,4 0	3,30	3/3 6	3/3 6

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

				•			•			
CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Guadeloupe	9	9	9	9	9	11	11 e	11 o	11 e	11 e
Guatemala	986	997	1 001	1 087	1392 o	1 438 o	1502 o	1574 o	1577 o	1579 o
Haiti	56 e	56 e	56 e	56 e	56 e	56 e	78 u	78 e	78 e	78 e
Honduras	539 o	558 o	624 o	656 o	670 e	676 e	714 e	729 e	837 e	849 e
Jamaica	23	30	30	30	30	30	30 e	30 e	30 e	30 e
Nicaragua	106	120	120	138	142 o	142 o	142 o	157 o	157 o	158 e
Panama	1 469	1 494	1 623	1 725	1 769	1777 o	1 777	1 796	1808 o	1786 o
Puerto Rico	100	98 o	98 o	98 o	98 o	98 o	98 o	98 o	98 o	98 o
St Vincent Gren	6	6	6	6	6	6	6 e	6 e	6 e	6 e
Eurasia	73 124	76 736	79 007	81 394	82 263	83 350	84 489	85 502	87 864	88 566
Armenia	1249 o	1 289 o	1298 o	1 287 o	1 312 o	1 327	1 336 o	1 336 e	1 336 e	1 336 e
Azerbaijan	1 023	1084	1 078	1 103	1 105	1 106 u	1 131 o	1 145	1 149 o	1 152 u
·			2 872	2 877	2 916					3 439 o
Georgia Russian Fed	2 710 48 533	2 734 49 340	2 8 / 2 50 116	2 877 50 259	2 916 50 250	3 158 50 486	3 152 o 50 579	3 439 o 51 079	3 323 o 51 071	5 459 0 51 145 e
Turkey	19 609	22 289	23 643	25 868	26 681	27 273 o	28 291	28 503	30 984 o	31 493 o
Europe	182 375	183 397	183 678	186 049	189 296	191 108	192 249	193 176	194 294	195 725
	1.000	4.704	4.705	4.700	4.047	0.047	0.105	0.100	0.000	0.000
Albania	1 628	1 781	1 725	1 798	1 913	2 047	2 105	2 162	2 289 u	2 289 e
Andorra	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 o	46 e	46 e
Austria	13 309	13 383	13 532	13 650	14 116	14 150	14 516	14 597	14 605	14 546 o
Belarus	32	32	33	34	74	95	95 o	95 e	96	96 e
Belgium	120	119	121	112	109	107	108	104	106	107 o
Bosnia Herzg	1701 o	1702 o	1 711 o	1 717 o	1760 o	1 791	1 816	1 819	1829 o	1786 o
Bulgaria	2 317	2 339	2 355	2 355	2 359	2 508 e	2 515 o	2 514 e	2 512 o	2 512 o
Croatia	2 129	2 178	2 180	2 195	2 192	2 193	2 200	2 200 o	2 200 o	2 202 o
Czechia	1 0 6 5	1080	1 080	1 088	1 090	1 093	1 0 9 3	1 094	1 0 9 4	1 111 o
Denmark	9	9	9	7	9	7	7	7	7 o	7 o
Estonia	8	8	5	6	6	7	7 e	6	8	9 о
Faroe Islands	39 o	39 o	39 o	39 o	39 o	39 o	40 o	40 o	40 e	40 e
Finland	3 080	3 108	3 132	3 133	3 133	3 156	3 152	3 157	3 164	3 178 o
France	23 849	23 838	23 849	23 824	23 893	23 979	23 999	24 141	23 985	23 985 o
Germany	5 607	5 589	5 580	5 589	5 629	5 627	5 329	5 378	5 438	5 441 o
Greece	3 236	3 238	3 389	3 392	3 392	3 392 e	3 409 o	3 412	3 417 o	3 424 o
Hungary	56	57	57	57	57	57 e	57 o	58	58 o	58 o
	1 877	1 984	1 984	1 987	1 987	1995	2 099		2 114	2 114 e
Iceland	237	237	237	237	237	237 e	2 0 9 9 237 o	2 104 237	237	237 o
Ireland									18 755	
Italy	17 923	18 052	18 116	18 238	18 316	18 486	18 558 o	18 601		18 772 e
Kosovo*	43	43	43	43	78	80	80	95	95 e	95 e
Latvia	1 576	1 587	1 588	1 588	1 564	1 564	1 565	1 587	1 586	1596 o
Lithuania	116	116	117	117	117	117 e	117 o	117 o	117 o	126 o
Luxembourg	34	34	34	34	34	35	34	34 e	35	35 o
Moldova Rep	64	64	64	64	64	64 o	64 o	64 e	64	64 e
Montenegro	629	630	653	662	668	675	676	676	697	697 o
Netherlands	37	37	37	37	37	37 e	37 e	37 o	37 o	37 o
North Macedonia	595	617	630	658	661	671	674	678	684	822 e
Norway	30 509	31 033	31 240	31 372	31 817	31 912	32 530	32 797 o	33 732 e	34 813 e
Poland	945	949	958	964	972	967	968	974 e	977 e	1164 e
Portugal	5 712	5 661	5 715	6 168	6 960	7 226	7 236	7 262	7 241	7 241 o
Romania	6 456	6 518	6 521	6 638	6 642	6 600	6 609	6 595	6 561	6 564 e
Serbia	2 352	2 317	2 403	2 408	2 416	2 424	2 429	2 460	2 468 e	2 483 e
Slovakia	1 606	1607	1 607	1 606	1608	1 607	1 612	1 611	1 613	1 613 e
Slovenia	1 074	1 119	1 116	1 115	1 113	1 167	1 163	1 171	1 172	1178 o
Spain	16 097	15 854	15 892	16 722	16 749	16 748	16 748	16 782	16 785	16 785 o
Sweden	16 315	16 395	15 897	16 230	16 367	16 502 e	16 431	16 462 e	16 406 e	16 406 e
Switzerland	13 347	13 361	13 288	13 346	14 279	14 826	14 980 o	15 012	15 032 o	15 032 o
UK	1 993	2 009	2 030	2 077	2 133	2 170 e	2 173	2 173 o	2 175 o	2 193 o
Ukraine	4 608	4 627	4 665	4 697	4 658	4 704	4 734	4 816	4 819	4 823 u
European Union (27)	123 174	123 374	123 386	125 363	126 963	127 831	127 972	128 401	128 377	128 596
Middle East	13 170	13 690	14 854	14 389	14 611	14 265	14 411	14 494	14 504	14 504
Iran IR	9 745	10 265	10 785	10 238 e	10 538 e	10 913 e	11 059 e	11 142 e	11 153 e	11 153 e
Iraq	9 745 2 274 e	2 274 e	2 274 e	2 274 e	2 274 e	1 557 e	1 557 e	1557 e	1 155 e 1 557 e	1 557 e
Israel	7	7 e	7 0	7 e	7 e	7 e	7 e	7 e	6 0	6 e
Jordan	12 o	12 o	12 0	16 u	16 u	16 u	16 u	16 u	16 e	16 e
Lebanon	282 0	282 e	282 e	282 e	282 e	282 e	282 e	282 e	282 e	282 e
Syrian AR	850 o	850 o	1494 o	1 572 o	1494 o	1490 o	1490 o	1490 e	1490 e	1490 e
N America	169 522	169 964	171 241	174 919	176 466	177 035	177 678	177 608	177 786	175 307
Canada	75 363	75 337	75 300	79 231	80 130	80 657	81 222	81 222	81 227 u	82 563 u
Greenland	91 o	91 o	91 o	91 o	91 o	91 o	91 e	91 o	91 e	91 e
Mexico	11 626	11 633	12 464	12 223	12 580	12 642 o	12 642 o	12 671 o	12 671 o	12 671 o
USA	82 442	82 903	83 386	83 374	83 665	83 644 o	83 722	83 624	83 797 o	79 982 o
Oceania	13 343	13 355	13 356	13 374	13 374	13 379	13 631	13 640	13 643	13 643
Australia	7 461	7 461	7 461	7 461	7 461	7 461	7 713 o	7 713 o	7 713 o	7 713 o
Fiji	139 u	138 u	138 u	138 u	138 u	138 u	138 u	138 e	138 e	138 e
Fr Polynesia	47 o	47 o	47 o	47 o	47 o	48 o	48 o	48 o	48 e	48 e
	., 0	., •	., -	., •	., •			.0 0		.0 0

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

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
New Caledon	78 o	78 o	78 e	81 o	81 e					
New Zealand	5 368	5 381	5 381	5 381	5 381	5 381	5 381 o	5 389 o	5 389 o	5 389 e
Papua N Guin	240 u	240 u	240 u	258 u	258 u	258 u	258 u	258 e	258 e	258 e
Samoa	9 о	9 o	9 o	9 o	9 o	12 o	13 e	14 u	14 e	14 e
Solomon Is	0 о	0 о	0 о	0 о	0 0	0 0	0 0	0 e	0 e	0 е
Vanuatu	1 o	1 o	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
S America	141 716	143 957	148 601	152 689	162 774	166 440	171 455	176 462	176 830	177 059
Argentina	10 136 o	10 136 o	10 138 o	10 208 o	10 270 o	10 273 e	10 318 e	10 340 e	10 374 e	10 376 e
Bolivia	501 o	501 o	494 o	495 o	495 o	620 o	666 e	736 o	736 e	736 e
Brazil	84 294	86 019	89 194 o	91 651 o	96 930 o	100 333 o	104 482 o	109 143 o	109 318 o	109 426 o
Chile	5 993 o	6 095 o	6 446 o	6 500 o	6 672 o	6 685 e	6 680 o	6 683 o	6 773 o	6 807 o
Colombia	9 777	9 868	10 900	11 501 e	11 611 e	11 731 o	11 842 o	11 926 e	11 954 e	11 954 e
Ecuador	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	5 099 o
Fr Guiana	119 o	119 o	119 o	119 e	119 o					
Guyana	2 e	2 e	2 e	2 o	2 e	2 e	2 e	2 o	2 e	2 e
Paraguay	8 810	8 810	8 810	8 810	8 810	8 810	8 810 o	8 810	8 810 o	8 810 e
Peru	3 479 o	3 544 o	3 651 o	4 139 o	5 179 o	5 112 o	5 230 o	5 387 o	5 406 o	5 490 o
South Georgia	0	0	0	0	0	0	0	0	0 e	0 е
Suriname	180	180	180	180	180	180 e				
Uruguay	1 538	1 538	1 538	1 538	1 538	1 538	1538 o	1538 e	1538 o	1538 e
Venezuela	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	16 521 e

Pure pumped storage Accumulation par pompage Hidroeléctrica de bombeo pura

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	105 605	107 732	109 474	111 905	116 937	119 844	120 360	120 609	124 022	130 014
Africa	1 864	1864	1864	1 864	2 863	3 196	3 196	3 196	3 196	3 196
Morocco	464	464	464	464	464	464 o	464	464 e	464 e	464 e
South Africa	1400 u	1400 u	1400 u	1400 u	2 399 u	2 732 u	2 732 e	2 732 e	2 732 e	2 732 u
Asia	54 835	56 035	57 218	58 338	61 998	64 668	65 268	65 568	65 598	71 668
China	20 333	21 533	22 110	23 030	26 690	29 390 e	29 990	30 290	30 320 u	36 390 o
Chinese Taipei	2 602 o	2 602 o	2 602 o	2 602 o	2602 o					
India	4 786 o	4 786 e	4 786 o	4 786 e	4 786 e					
Japan	21 119	21 119	21 724	21 924	21 924	21 894	21 894 e	21 894 o	21 894 o	21 894 o
Korea Rep	4 700 0	4 700 o	4 700 o 0	4 700 o 0 e	4 700 o	4 700 o 0 e				
Mongolia Philippines	736 o	0 736 o	736 o	736 o	0 736 o	736 e				
Thailand	560 o	560 o	560 o	560 o	560 e					
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	1356 e
Europe	26 827	27 733	28 202	28 383	28 595	28 467	28 363	28 363	28 362	28 341
Belgium	1 307	1 310	1 310	1 310	1 310	1 310 e	1 310 o	1 310 e	1 310 o	1 310 o
Bosnia Herzg	420 o	420 e	420 o	420 o	420 o					
Bulgaria	864	864	864	864	864	864 e	864 o	864 e	864 o	864 o
Czechia	1147	1 172	1 172	1 172	1 172	1 172	1 172	1 172	1172 o	1 172 o
France	1 808	1808	1 728	1 728	1728	1 728	1 728 o	1 728	1 728	1728 o
Germany	5 650 292	5 650 292	5 654 292	5 666 292	5 578 292	5 493 292 e	5 355 292 o	5 355 292	5 354 292 o	5 212 o 292 e
Ireland Italy	3 957	3 957	3 982	3 982	3 982	3 940	3 940 o	3 940	3 940 e	3 940 e
Lithuania	760	760	760	760	760	760 e	760 o	760 o	760 o	760 o
Luxembourg	1 100	1 100	1 296	1 296	1 296	1 296 e	1 296 e	1 296 e	1 296 o	1296 o
Poland	1 406	1406	1 406	1406	1 413	1 423	1 423	1 423 e	1423 e	1220 o
Romania	92	92	92	92	92	92	92	92 e	92 o	92 e
Serbia	614	614	614	614	614	614	614 o	614 e	614 e	614 e
Slovakia	916	916	916	916	916	916 e	916	916 e	916 e	916 e
Slovenia	180	180	180	180	180	180 e	180	180 e	180	180 o
Spain Sweden	2 453 99	3 331 99	3 331 99	3 331 99	3 331 99	3 331	3 331	3 331	3 331	3 331 o
Switzerland	456	456	456	469	527	527 e	562	562	562 e	562 o
UK	2 444	2 444	2 444	2 600	2 600	2 600	2 600	2 600 o	2 600 o	2 600 o
Ukraine	862	862	1 186	1 186	1 421	1509 o	1509 o	1509 e	1 509	1833 u
European Union (27)	22 031	22 937	23 082	23 094	23 013	22 797	22 658	22 658	22 657	22 312
Middle East	240	240	240	1 280	1 280	1 280	1 280	1 280	1 580	1 580
Iran IR				1040	1040	1040	1040 o	1040 e	1040 e	1040 o
Iraq	240	240	240	240	240 e	240 e	240 e	240 e	240 e	240 e
Israel									300 u	300 e
N America	18 839	18 860	18 950	19 040	19 201	19 233	19 253	19 202	22 146	22 089
Canada	174	174	174	174	174 o	174 e	174 e	177	177 e	177 e
USA	18 665	18 686	18 776	18 866	19 027	19 059	19 079	19 025	21 969 o	21 912 o
Oceania	810	810	810	810	810	810	810	810	810	810
Australia	810	810	810	810	810	810	810	810 o	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					

Marine energy Énergie marine Energía marina

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	509	510	513	513	519	522	526	525	524	524
Asia	259	259	259	259	259	259	259	260	260	260
China Korea Rep Singapore	4 255 o	4 255 o 0	4 255 o 0	4 255 0	4 255 0	4 255 o 0 e	4 255 o 0 o	4 e 256 0 e	5 u 256 o 0 e	5 e 256 o 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 o	2 e	2	2 e
Europe	228	228	231	231	237	240	244	242	241	241
Denmark Faroe Islands	0 u			0 u					0 o	0 e
France Italy	216	218 0 u	220 0 u	218 0 u	220 0 u	219 0 e	218 0 e	214 0 e	212 0 u	212 e 0 e
Netherlands Norway Portugal	0 u 2 u 0	u 0 u 0	0 u 0 u 1	2 u 0 u	2 e 0 u	2 e 0 e 0	2 e 0 e 0	2 u 0 e	2 e 0 e	2 e 0 e
Spain Sweden	0 u 0 u	0 u 0 u	0 u 0 u	0 u 0 u	5 0 u	5 0 e	5 0 e	5 e	5 e	5 e
UK	9	8	9	9	9	13	18	20	22 o	22 o
European Union (27)	217	219	222	221	227	227	226	221	219	219
N America	20	20	20	20	20	20	20	20	20	20
Canada USA	20	20 0 u	20 0 e	20 0 u	20 0 u	20 0 o	20 e	20 e	20 e	20 e
Oceania	1	1	1	1	1	1	1	1	1	1
Australia New Zealand	1 0	1	1	1	1	1 e	1 e	1 o 0 o	1 e 0 o	1 e 0 e
S America	0	0	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0 о	0 о	0 о	0 0

Wind energy Énergie éolienne Energía eólica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	266 918	299 840	349 307	416 170	466 866	514 215	563 466	621 270	731 763	824 874
Africa	1 128	1 742	2 399	3 320	3 826	4 579	5 472	5 529	6 485	7 334
Algeria			10	10	10	10	10	10	10	10
Cabo Verde	27	27	27	27	27	27	28	28	28	28
Chad					1	1	1	1	1	1
Djibouti Egypt	555	555	555	755	755	755	1 130	1 132	1 380	20 1640
Eritrea	1	1	1	755	755	733	1 130	1 132	1 360	1 040
Ethiopia	81	171	171	324	324	324	324	324	324	324
Gambia	1	1	1	1	1	1	1	1	1	1
Ghana				0	0	0	0	0	0	0
Kenya	6	6	6	26	26	26	336	336	336	436
Madagascar Mauritania	0	0 4	0 4	0 34	0 34	0 34	0 34	0 34	0 34	0 34
Mauritius	1	1	1	1	11	11	11	11	11	11
Morocco	255	495	797	797	897	1 023	1 225	1 225	1 405	1 435
Namibia	0	0	0	0	0	5	5	5	5	5
Reunion	15	15	15	15	17	17	17	17	17	17
Senegal Seychelles		6	6	6	6	6	6	55 6	159 6	159 6
Somalia	2	2	2	3	3	4	4	4	4	4
South Africa	10	257	569	1 079	1 473	2 094	2 094	2 094	2 516	2 956
Tanzania									2	2
Tunisia	173	200	233	240	240	240	245	245	245	245
Asia	82 809	99 542	124 336	161 804	184 185	205 015	229 093	257 667	332 302	385 396
Afghanistan	0	0	0	0	0	0	0	0	0	0
Bangladesh	2	2	2	3	3	3	3	3	3	3
Bhutan	0	0	0	1 0	1 0	1 0	1 0	1 0	1	1
Cambodia China	61 597	76 731	96 819	131 048	148 517	164 374	184 665	209 582	0 282 113	0 328 973
Chinese Taipei	571	614	637	647	682	692	713	845	937	1 033
India	17 300	18 420	22 465	25 088	28 700	32 848	35 288	37 505	38 559	40 067
Indonesia	1	1	1	1	1	1	144	154	154	154
Japan	2 562	2 646	2 753	2 808	3 247	3 483	3 498	3 951	4 371	4 471
Kazakhstan Korea DPR	2	4 0	53 0	72 0	98 0	112 1	121 1	284 1	486 1	1 170 1
Korea Rep	464	576	612	847	1067	1 215	1 420	1 494	1 636	1708
Maldives	1	1	1	1	1	1	1	1	1	1
Mongolia	1	51	51	51	51	101	156	156	156	156
Myanmar				0	0	0	0	0	0	0
Nepal Pakistan	56	0 106	0 206	0 308	0 591	0 789	0 1 186	0 1 236	0 1 236	0 1 335
Philippines	33	33	337	427	427	427	427	443	443	443
Singapore						0	0	0	0	0
Sri Lanka	77	81	121	131	131	131	128	128	179	253
Thailand	112	223	225	234	507	628	1 103	1 507	1 507	1 507
Uzbekistan Viet Nam	31	53	53	136	160	1 205	1	775	1 518	1 4 118
Viet Nam					160		237	375		
C America + Carib	728	822	946	1302	1 544	1599	1 709	1 945	1 969	2 001
Antigua Barb Aruba	30	30	30	30	30	30	30	30	4 30	4 30
Barbados	30	30	30	30	0	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 Cuba	144 12	144 12	193 12	272 12	365 12	378 12	408 12	411 12	394 12	394 12
Curacao	30	30	30	30	30	47	47	47	47	47
Dominica	0	0	0	0	0	0	0	0	0	0
Dominican Rep	85	85	85	85	135	135	183	370	370	370
El Salvador	_	_	_	_	_	_	_	_	36	36
Grenada	0	0	0	0	0	0	0	0	0	0
Guadeloupe Guatemala	23	23	23	27 76	26 76	26 76	26 107	42 107	42 107	52 107
Haiti				70	70	70	0	0	0	0
Honduras	102	152	152	152	175	225	225	241	241	241
Jamaica	39	39	39	39	99	99	99	99	99	99
Martinique	1	1	1	1	1	1	1	13	15	14
Nicaragua	147	147	186	186	186	186	186	186	186	186
Panama Puerto Rico	101	20 125	55 125	253 125	270 125	270 101	270 101	270 102	270 102	270 125
St Kitts Nevis	2	125	125	2	2	2	2	2	2	125 2
Trinidad Tobago	_	_	۷.	0	0	0	0	0	0	0
US Virgin Is		0	0	0	0	0	0	0	0	0
Eurasia	2 276	2 775	3 645	4 525	5 801	6 566	7 146	7 783	9 868	12 653

Wind energy Énergie éolienne Energía eólica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Armenia	3	3	3	3	3	3	3	3	3	3
Azerbaijan	2	3	3	8	16	16	66	66	66	67
Georgia					20	20	20	21	21	21
Russian Fed	10	10	10	11	11	11	52	102	945	1 955
Turkey	2 261	2 760	3 630	4 503	5 751	6 516	7 005	7 591	8 832	10 607
Europe	107 196	118 181	130 209	143 010	155 763	170 624	181 904	196 339	207 878	222 052
Austria	1 337	1 675	2 110	2 489	2 730	2 887	3 133	3 224	3 226	3 524
Belarus	5 1 370	7 1 780	1044	22	62	2 700	92	112	112	112 4 780
Belgium Bosnia Herzg	0	0	1 944 0	2 176 0	2 370 0	2 788 0	3 268 51	3 863 87	4 681 135	4 780
Bulgaria	677	683	699	699	699	698	699	703	703	705
Croatia	180	254	339	418	483	576	586	646	801	988
Cyprus	147	147	147	158	158	158	158	158	158	158
Czechia	258	262	278	281	282	308	316	339	339	339
Denmark	4 162	4 819	4 886	5 077	5 245	5 489	6 115	6 103	6 259	7 014
Estonia Faroe Islands	266 9	248 9	275 20	300 20	310 20	312 20	310 16	316 13	317 19	317 19
Finland	257	447	627	1 0 0 5	1 565	2 0 4 4	2 041	2 284	2 586	3 257
France	7 607	8 156	9 201	10 298	11 567	13 499	14 900	16 457	17 484	18 676
Germany	30 979	33 477	38 614	44 580	49 435	55 580	58 721	60 742	62 188	63 760
Greece	1 753	1 809	1 978	2 091	2 370	2 624	2 877	3 589	4 119	4 457
Hungary	325	329	329	329	329	329	329	323	321	321
Iceland	1704	1.027	3	3	3	2	2	4 126	2	2
Ireland	1 704 8 102	1 923 8 542	2 283 8 683	2 451 9 137	2 802 9 384	3 319 9 737	3 674 10 230	4 126 10 679	4 307 10 871	4 332 11 276
Italy Kosovo*	1	0 342	0 003	9 137	9 304 1	34	34	34	32	137
Latvia	59	66	69	68	70	77	78	78	78	81
Lithuania	275	279	288	436	509	518	533	534	540	671
Luxembourg	58	58	58	64	120	120	123	136	153	157
Malta	0	0	0	0	0	0	0	0	0	0
Moldova Rep		1	1	1	2	9	33	35	37	51
Montenegro Netherlands	2 433	2 713	2 865	3 391	4 257	72 4 202	72 4 393	118 4 484	118 6 619	118 7 801
North Macedonia	2 433	2713	37	37	37	37	37	37	37	37
Norway	705	818	859	867	883	1 207	1 710	2 914	4 030	4 650
Poland	2 564	3 429	3 836	4 886	5 747	5 759	5 766	5 837	6 298	6 958
Portugal	4 412	4 610	4 857	4 937	5 124	5 124	5 172	5 223	5 122	5 248
Romania	1822	2 773	3 244	3 130	3 025	3 030	3 032	3 038	3 013	3 013
Serbia Slovakia	1	1 5	1 3	10 3	17 3	25 4	227 3	398 4	398 3	398 3
Slovenia	2	2	3	3	3	3	3	3	3	2
Spain	22 789	22 958	22 925	22 943	22 990	23 124	23 405	25 590	26 819	27 497
Sweden	3 606	4 194	5 088	5 819	6 435	6 611	7 300	8 681	9 976	12 080
Switzerland	49	60	60	60	75	75	75	75	87	87
UK	9 030	11 282	13 074	14 306	16 126	19 585	21 767	24 095	24 485	27 130
Ukraine	248	362 105 678	514 115 670	514 127 212	526	553	621	1 258	1 402	1761
European Union (27) Middle East	97 187 115	105 678	165	286	138 055 423	148 964 504	157 211 609	167 233 775	177 057 923	187 497 1 029
Bahrain	1	1	103	1	1	1	1	1	1	1 029
Iran IR	106	108	149	153	191	259	282	305	308	310
Israel	6	6	6	6	27	27	27	27	27	27
Jordan	1	1	1	118	198	198	280	373	518	622
Kuwait Lebanon	1	2	2	2	2	12 3	12 3	12 3	12 3	12 3
Oman	1	۷	J	J	J	J	J	50	50	50
Saudi Arabia						3	3	3	3	3
Syrian AR	1	1	1	1	1	1	1	1	1	1
United Arab Em		1	2	2						
N America	67 092	69 897	76 495	87 058	97 310	104 046	112 208	123 516	138 863	154 733
Canada Greenland	6 201	7 801	9 694	11 214	11 973	12 250	12 816 0	13 413 0	13 627 0	14 304 0
Mexico St Pierre Mg	1 815 1	2 122	2 569	3 271	4 051	4 199	4 876	6 050	6 504	7 692
USA	59 075	1 59 973	64 232	72 573	81 286	87 597	94 516	104 052	118 732	132 738
Oceania	3 235	3 895	4 531	4 922	5 066	5 553	6 184	7 023	9 442	9 922
Australia	2 561	3 221	3 797	4 181	4 324	4 812	5 442	6 279	8 603	8 951
Cook Is	0	0	0	0	0	0	0	0	0	0
Fiji Er Polynosia	10 0	10 0	10 0	10 0						
Fr Polynesia Guam	U	U	U	U	0	0	0	0	0	0
Marshall Is					O	U	0	0	0	0
Micronesia							1	1	1	1
New Caledon	38	38	38	38	38	38	38	38	38	38
New Zealand	623	623	682	689	689	689	689	689	784	917

Wind energy Énergie éolienne Energía eólica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Samoa			1	1	1	1	1	1	1	1
Tokelau								0	0	0
Tonga		0	0	0	0	0	0	2	2	2
Vanuatu	3	3	4	4	4	3	3	3	3	3
S America	2 340	2 864	6 580	9 943	12 947	15 727	19 141	20 694	24 034	29 754
Argentina	137	190	215	187	187	227	750	1 609	2 624	3 292
Bolivia	0	0	3	3	27	27	27	27	27	128
Brazil	1894	2 202	4 888	7 633	10 129	12 304	14 843	15 438	17 198	21 161
Chile	202	301	736	910	1 0 3 9	1 3 0 5	1 524	1 620	2 149	3 137
Colombia	18	18	18	18	18	18	18	18	18	18
Ecuador	2	19	21	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	143	240	240	240	372	372	409	409
South Georgia	0	0	0	0	0	0	0	0	0	0
Uruguay	53	59	481	857	1 211	1 511	1 511	1 514	1 514	1 514
Venezuela	30	71	71	71	71	71	71	71	71	71

Onshore wind energy Énergie éolienne terrestre Energía eólica terrestre

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	261 584	292 668	340 815	404 453	452 524	495 378	539 840	592 888	697 401	769 196
Africa	1 128	1742	2 399	3 320	3 826	4 579	5 472	5 529	6 485	7 334
Algeria			10	10	10	10 e	10 e	10 e	10 e	10 e
Cabo Verde	27	27	27	27	27	27	28 e	28 e	28 e	28 e
Chad					1 u	1 e	1 e	1 e	1 o	1 e
Djibouti										20 u
Egypt	555 o	555 o	555 o	755 o	755 o	755 o	1 130 o	1 132 e	1 380 e	1640 e
Eritrea	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Ethiopia	81 1 o	171 1 o	171 1 o	324 1 o	324 u 1 o	324 e 1 o	324 e 1 e	324 e 1 e	324 1 e	324 1 e
Gambia Ghana	10	10	10	0 0	0 e	0 e	0 e	0 e	0 e	0 e
Kenya	6 о	6 o	6 o	26 e	26 e	26 e	336 e	336 e	336 e	436 e
Madagascar	0 0	0 0	0 0	0 0	0 0	0 e	0 e	0 e	0 e	0 e
Mauritania	0 0	4 0	4 0	34 o	34 o	34 o	34 e	34 e	34 e	34 e
Mauritius	1	1	1	1	11	11 e	11 e	11 e	11 e	11 e
Morocco	255	495	797	797	897	1023 o	1 225 o	1225 e	1405 e	1 435 e
Namibia	0 e	0 e	0 е	0 e	0 е	5 u	5 e	5	5 e	5 e
Reunion	15 o	15 o	15 o	15 o	17 o	17 e	17 o	17 e	17 e	17 e
Senegal		_	_	_	_		_	55 o	159 o	159 e
Seychelles		6 0	6 0	6 o	6 o	6 0	6 e	6 e	6 e	6 e
Somalia	2 u	2 u	2 u	3 u	3 u	4 u	4 e	4 e	2.516	4 e
South Africa Tanzania	10 o	257 o	569 o	1079 o	1 473 o	2 094 o	2 094 o	2 094 e	2 516 u 2 u	2 956 e 2 u
Tunisia	173 o	200 o	233 о	240 o	240 o	240 o	245 o	245 o	245 o	245 e
Asia	82 488	99 055	123 820	161 082	182 506	202 010	224 260	251 372	322 883	357 574
Afghanistan	0 u	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Bangladesh Bhutan	2 0	2 o	2 o	3 o 1 u	3 o 1 e	3 o 1 e	3 e 1 e	3 o 1 e	3 o 1 e	3 o 1 e
Cambodia	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
China	61 306	76 314	96 379	130 489	147 037	161 586	180 077	203 652 e	273 123 o	302 583 e
Chinese Taipei	571 o	614 o	637 o	647 o	682 o	684 o	705 o	717 o	809 o	796 o
India	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	40 067 o
Indonesia	1 o	1 o	1 o	1 o	1 o	1 o	144 o	154 o	154 e	154 o
Japan	2 537	2 596	2 703	2 755	3 187	3 418	3 433	3 886	4 306 o	4 406 o
Kazakhstan	2	4	53	72	98	112	121 o	284 e	486	1 170 o
Korea DPR	0 u	0 u	0 u	0 u	0 u	1 0	1 e	1 e	1 e	1 e
Korea Rep	459	571	602	837	1 027	1 170	1 347	1 421	1500 o	1572 o
Maldives Mongolia	1 u 1 e	1 u 51 e	1 e 51 e	1 e 51 e	1 e 51 e	1 e 101 e	1 e 156 o	1 e 156 e	1 e 156	1 e 156 e
Myanmar	1 6	31 6	31 6	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Nepal		0 u	0 u	0 u	0 u	0 e	0 0	0 0	0 e	0 e
Pakistan	56 e	106 e	206 e	308 e	591 e	789 e	1 186 e	1 236 e	1 236 e	1 335 e
Philippines	33 o	33 o	337 o	427 o	427 o	427 o	427 o	443 o	443 o	443 e
Singapore						0 u	0 e	0 e	0 e	0 e
Sri Lanka	77 o	81 o	121 o	131 o	131 o	131 o	128 o	128 e	179 o	253 e
Thailand	112	223	225	234	507	628 o	1103 o	1507 o	1507 o	1507 e
Uzbekistan						1 0	1 0	1 e	1	1 e
Viet Nam	31	37	37 u	37 u	61 e	106 e	138 u	275 e	419 e	3 124 e
C America + Carib	728	822	946	1302	1 544	1 599	1 709	1 945	1 969	2 001
Antigua Barb									4 u	4 e
Aruba	30	30	30	30	30	30	30 e	30 o	30 e	30 e
Barbados					0	0	0 e	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 e
BES Islands Br Virgin Is	11 o 1	11 o 1	11 o 1	11 o 1	11 o 1	11 o 1	11 e 1 e	11 e 1 e	11 e 1 e	11 e 1 e
Costa Rica	144	144	193	272	365	378	408 o	411 o	394 o	394 o
Cuba	12	12	12	12	12	12	12 e	12	12	12
Curacao	30	30	30	30	30	47 o	47 o	47 o	47 o	47 e
Dominica	0 о	0 о	0 о	0 о	0 о	0 о	0 о	0 е	0 е	0 е
Dominican Rep	85	85	85	85	135 o	135 o	183 o	370 o	370 o	370
El Salvador									36 o	36 e
Grenada	0 u	0 u	0 u	0 u	0 u	0 u	0 u	0 e	0 e	0 e
Guadeloupe	23	23	23	27	26	26	26	42	42	52
Guatemala Haiti				76	76	76	107 o 0 u	107 o 0 e	107 o 0 e	107 o 0 e
	102	152 o	152	152	175	225	0 u 225	0 e 241 u	0 e 241 e	0 e 241 e
Honduras Jamaica	39	152 o 39	152 39	152 39	1/5 99	225 99	225 99 e	241 u 99 e	241 e 99 o	241 e 99 e
Jamaica Martinique	39 1 o	39 1 o	39 1 o	39 1 o	99 1 o	99 1 e	99 e 1 o	99 e 13	99 o 15	99 e 14
Nicaragua	147 e	147	186	186	186	186	186 o	186 o	186 o	186 e
Panama	. ,, c	20	55	253	270	270	270 o	270	270 e	270 o
Puerto Rico	101	125	125	125	125	101	101 e	102 o	102 e	125 o
St Kitts Nevis	2	2	2	2	2	2 u	2 e	2 e	2 e	2 e
Trinidad Tobago				0	0	0	0 e	0 e	0 e	0 e
US Virgin Is		0 о	0 0	0 0	0 0	0 0	0 е	0 е	0 е	0 е
Eurasia	2 276	2 775	3 645	4 525	5 801	6 566	7 146	7 783	9 868	12 653

Onshore wind energy Énergie éolienne terrestre Energía eólica terrestre

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Armenia	3	3	3	3	3 о	3 e	3 о	3 e	3 e	3 e
Azerbaijan	2 e	3	3	8	16 u	16 u	66 o	66 e	66	67
Georgia					20	20	20	21	21 o	21 o
Russian Fed	10	10	10 e	11 e	11 e	11 e	52 e	102 e	945	1955 o
Turkey	2 261	2 760	3 630	4 503	5 751	6 516	7 005	7 591	8 832 o	10 607 o
Europe	102 183	111 497	122 234	132 014	143 130	154 822	163 141	174 282	182 964	194 237
Austria	1 337	1 675	2 110	2 489	2 730	2 887	3 133	3 224	3 226	3 524 u
Belarus	5	7	9	22	62	84	92	112	112	112 e
Belgium	989	1 072	1 2 3 6	1 464	1 658	1 910	2 082	2 308	2 419	2 518 o
Bosnia Herzg	0 0	0 0	0 0	0 0	0 0	0 0	51	87	135 u	135 u
Bulgaria	677	683	699	699	699	698	699	703	703	705 o
Croatia	180	254	339	418	483	576	586	646	801	988 u
Cyprus	147 258	147 262	147 278	158 281	158 282	158	158 316	158 o 339	158 o 339	158 e 339 o
Czechia Denmark	3 240	3 548	3 615	3 806	3 974	308 4 225	4 414	4 402	4 559	4 708 o
Estonia	266	248	275	300	310	312	310	316	317	317 u
Faroe Islands	9 0	9 0	20 o	20 o	20 o	20 e	16 o	13 o	19 o	19 e
Finland	231 e	421 e	601 e	973 e	1533 e	1 971	1968 o	2 211	2 513	3 184 u
France	7 607	8 156	9 201	10 298	11 567	13 497	14 898	16 455	17 482	18 674 o
Germany	30 711 o	32 969 o	37 620 o	41 297 o	45 303	50 174	52 328	53 187	54 414	56 013 o
Greece	1 753	1809	1978	2 091	2 370	2 624	2 877	3 589	4 119	4 457 u
Hungary	325	329	329	329	329	329 u	329 o	323	321	321 e
Iceland		2	3	3	3	2	2	2	2	2 e
Ireland	1 679	1898	2 258	2 426	2 776	3 294	3 649	4 101	4 282	4 307 o
Italy	8 102	8 542	8 683	9 137	9 384	9 737	10 230	10 679	10 871	11 276 o
Kosovo*	1	1	1	1	1	34	34	34	32 u	137 u
Latvia	59	66	69	68	70	77	78	78	78 o	81 o
Lithuania	275	279	288	436	509	518	533	534	540	671 o
Luxembourg	58	58	58	64	120	120	123	136	153	157 u
Malta	0	0	0	0 о	0	0	0 e	0 e	0 e	0 e
Moldova Rep		1	1	1	2 o	9 o	33	35	37 o	51 o
Montenegro						72 u	72	118 u	118 e	118 u
Netherlands	2 205 o	2 485 o	2 637 o	3 034 o	3 300 o	3 245	3 436	3 527	4 159	5 341 o
North Macedonia			37	37	37	37 u	37 u	37 o	37 o	37 u
Norway	703 e	816 e	857	865 e	881 e	1205 o	1 708	2 912	4 028	4 644 o
Poland	2 564	3 429	3 836	4 886	5 747	5 759	5 766	5 837	6 298	6 958 u
Portugal	4 410	4 608	4 855	4 935	5 124	5 124	5 172	5 215	5 097	5 223 o
Romania	1822	2 773	3 244	3 130	3 025	3 030	3 032	3 038	3 013	3 013 u
Serbia	1	1	1	10 e	17	25 u	227	398	398	398 o
Slovakia	3	5	3	3	3	4 u	3	4	3	3 e
Slovenia	2 700	2 22 257 -	3	3	3	3	3	3	3	2 0
Spain	22 789 3 443	22 953 e 3 982	22 920 4 875	22 938 e 5 606	22 985 6 232	23 119	23 400 7 097	25 585 8 478	26 814 9 773	27 492 o 11 877 u
Sweden Switzerland	3 443 49	3 982 60	4 875 60	60	6 232 75	6 408 75 u	7 097 75 o	8 4 / 8 75 e	9 //3 87 o	11 877 u 87 u
UK	6 035	7 586	8 573	9 212	10 833	12 597	13 551	14 125	14 102 o	14 430 u
Ukraine	248	362	514	514	526	553	621 o	14 123 1 258 o	14102 0	14 430 u
					130 717	140 152			162 528	
European Union (27)	95 172	102 692	112 198	121 311			146 666	155 149		172 389
Middle East	115	122	165	286	423	504	609	775	923	1 029
Bahrain	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Iran IR	106	108	149	153	191	259 o	282 o	305	308	310 o
Israel	6	6 e	6 0	6 e	27 e	27 e	27 e	27 e	27 e	27 e
Jordan	1 o	1 o 2 u	1 o 2 e	118 o 2 e	198 o 2 e	198 o	280 o	373 u	518 o 12 e	622 u
Kuwait Lebanon	1 u	2 u 2 u	2 e 3 u	2 e 3 e	2 e 3 e	12 e 3 e	12 e 3 e	12 e 3 e	12 e 3 e	12 e 3 e
Oman	ı u	2 u	3 u	2.6	3.6	3 6	3 6	50	50 e	50 e
Saudi Arabia						3 u	3 e	3 o	3 e	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	1.0	1 e	2 e	2 e	u	u	u	u	1.0	1.0
N America	67 092	69 897	76 495	87 058	97 281	104 017	112 179	123 487	138 834	154 691
Canada Greenland	6 201	7 801	9 694	11 214	11 973	12 250	12 816 u 0 o	13 413 u 0 o	13 627 O e	14 304 0 e
Mexico	1 815	2 122	2 569	3 271	4 051	4 199 o	4 876 o	6 050 o	6 504 o	7 692 o
St Pierre Mg	1 u	2 122 1 u	_ 505	52,1	7 031	+ 155 0	. 5, 5 5	2 030 0	3 304 0	. 032 0
USA	59 075	59 973	64 232	72 573	81 257	87 568	94 487	104 023 o	118 703 o	132 696 o
Oceania	3 235	3 895	4 531	4 922	5 066	5 553	6 184	7 023	9 442	9 922
Australia	2 561	3 221	3 797	4 181	4 324	4 812	5 442	6 279	8 603 o	8 951 o
Cook Is	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 z/3	0 003 0 0 e	0 931 0 0 e
Fiji	10 u	10 u	10 u	10 u	10 u	10 u	10 u	10 e	10 e	10 e
Fr Polynesia	0 e	0 e	0 е	0 е	0 е	0 e	0 e	0 е	0 e	0 е
Guam					0 0	0 0	0 e	0 e	0 e	0 e
Marshall Is							0 u	0 е	0 e	0 е
Micronesia							1 u	1 e	1 e	1 e
New Caledon	38 o	38 o	38 o	38 o	38 o	38 o	38 o	38 e	38 e	38 e
New Zealand	623	623	682	689	689	689	689 o	689 o	784 o	917

Onshore wind energy Énergie éolienne terrestre Energía eólica terrestre

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Samoa			1 o	1 o	1 o	1 o	1 o	1 e	1 e	1 e
Tokelau								0 о	0 e	0 e
Tonga		0 e	0 e	0 о	0 о	0 о	0 о	2 u	2 e	2 e
Vanuatu	3 о	3 о	4 0	4 o	4 0	3 о	3 о	3 о	3 e	3 e
S America	2 340	2 864	6 580	9 943	12 947	15 727	19 141	20 694	24 034	29 754
Argentina	137 o	190 o	215 o	187 o	187 o	227 e	750 e	1609 o	2 624 e	3 292 e
Bolivia	0	0	3 о	3 о	27 o	128 o				
Brazil	1894	2 202 o	4 888 o	7 633 o	10 129 o	12 304 o	14 843 o	15 438 o	17 198 o	21 161 o
Chile	202	301	736	910	1 039	1305 o	1524 o	1620 o	2 149 o	3 137 o
Colombia	18 o	18 o	18 o	18 o	18 o	18 o	18 o	18 o	18	18
Ecuador	2	19	21 o	21 o	21 o	21 o	21 e	21 o	21 o	21 o
Falklands Malv	2 e	2 e	2 e	2 o	2 o	2 o	2 o	2 e	2 e	2 e
Guyana	0	0	0	0	0	0	0 e	0 e	0 e	0 e
Peru	1	1	143	240 o	240 o	240 o	372 e	372 e	409 e	409 o
South Georgia	0	0	0	0	0	0	0	0	0 e	0 e
Uruguay	53	59	481	857	1 211	1 511	1 511	1 514	1 514 o	1 514 e
Venezuela	30	71 u	71 u	71 u	71 u	71 u	71 u	71 u	71 e	71 e

Offshore wind energy Énergie éolienne maritime Energía eólica marina

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	5 334	7 171	8 492	11 717	14 342	18 837	23 626	28 382	34 362	55 678
Asia	321	488	516	722	1 680	3 006	4 833	6 295	9 418	27 822
China Chinese Taipei	291	417	440	559	1 480	2 788 u 8 u	4 588 u 8 u	5 930 128 o	8 990 o 128 o	26 390 o 237 o
Japan	25	50	50	53	60	65 u	65 u	65 o	65 o	65 o
Korea Rep	5	5	11	11	41	46 e	73 u	73 u	136 u	136 e
Viet Nam		16 e	16 u	99 u	99 o	99 o	99 e	99 u	99 e	994 e
Europe	5 013	6 684	7 976	10 996	12 633	15 802	18 763	22 058	24 915	27 814
Belgium	381	708	708	712	712	877	1 186	1 556	2 262	2 262 o
Denmark	922	1 271	1 271	1 271	1 271	1 264	1 701	1 701	1 701 o	2 306 o
Finland	26 u	26 u	26 u	32 u	32 u	73	73 o	73	73 u	73 u
France						2 u	2 o	2 u	2 u	2 u
Germany	268 o	508 o	994 o	3 283 o	4 132 o	5 406	6 393	7 555	7 774	7 747 o
Ireland	25	25	25	25	25	25 u	25 o	25	25 o	25 e
Netherlands	228 o	228 o	228 o	357 o	957 o	957 u	957 u	957 u	2 460	2 460 o
Norway	2 u	2 u	2 u	2 u	2 u	2 o	2 u	2 u	2 e	6 u
Portugal	2	2	2	2				8	25	25 u
Spain		5 u	5 u	5 u	5 u	5 u	5	5 o	5 e	5 о
Sweden	163	212	213	213	203	203 e	203	203 u	203 u	203 u
UK	2 995 o	3 696 o	4 501 o	5 093 o	5 293 o	6 988	8 217	9 971	10 383 o	12 700 u
European Union (27)	2 015	2 985	3 472	5 900	7 337	8 812	10 545	12 085	14 529	15 108
N America			0	0	29	29	29	29	29	42
USA			0 u	0 u	29	29	29 o	29 o	29 o	42 o

Solar energy Énergie solaire Energía solar

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	104 312	141 169	180 216	228 054	300 199	395 276	488 820	591 059	716 788	849 473
Africa	411	732	1 738	2 256	3 413	5 236	8 195	9 500	10 789	11 387
Algeria	25	25	26	74	244	425	448	448	448	448
Angola	10	11	12	13	13	13	13	13	13	13
Benin			0	1	3	3	3	3	3	3
Botswana	2	2	2	2	3	3	4	6	6	6
Burkina Faso Burundi	6 2	6 3	7 3	8	10 4	47 5	62 5	62 5	62 5	62 5
Cabo Verde	6	6	6	6	6	6	8	8	8	8
Cameroon	3	4	6	7	9	12	14	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	1	1
Congo DR	0	0	1	1	3	5	20	20	20	20
Congo Rep	0 2	0	0	0 5	0 5	1 8	1 13	1	1 13	1
Cote d Ivoire Djibouti	0	3 0	4 0	0	0	0	0	13 0	0	13 0
Egypt	35	35	35	36	59	180	764	1 647	1 675	1675
Eq Guinea										
Eritrea	0	0	8	8	8	10	18	20	22	24
Eswatini	1	1	1	1	1	1	1	1	1	11
Ethiopia	1	3	9	10	14	12	12	12	20	21
Gabon Gambia	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
Ghana	2	3	6	31	38	47	78	85	108	108
Guinea	1	3	3	13	13	13	13	13	13	13
Guinea Bissau				0	0	0	1	1	1	1
Kenya	3	7	16	30	31	38	105	106	106	147
Lesotho	ā	0	0	0	0	0	0	0	0	0
Liberia Libya	0 5	0 5	0 5	0 5	0 5	2 5	3 5	3 5	3 5	3 6
Madagascar	3	5	7	9	11	13	33	33	33	33
Malawi	3	5	8	12	12	19	26	80	82	142
Mali	16	16	16	17	18	19	19	19	70	100
Mauritania		18	18	18	35	35	87	88	88	88
Mauritius	1	2	18	19	27	29	67	83	83	83
Mayotte Morocco	13 35	13 35	13 40	13 200	13 202	15 204	15 734	15 734	18 734	18 774
Mozambique	2	5	7	10	13	15	734 55	734 55	734 55	55
Namibia	11	15	16	21	36	75	93	145	145	145
Niger	4	5	6	7	8	9	27	27	27	27
Nigeria	15	15	16	17	18	19	19	28	28	33
Reunion	153	156	167	187	186	188	190	191	205	217
Rwanda Sao Tome Prn	0	1 0	10 0	14 0	19 0	28 0	38 0	38 0	38 0	38 0
Senegal	6	7	9	9	42	107	148	171	171	238
Seychelles	· ·	0	1	1	2	3	4	4	4	9
Sierra Leone	0	0	0	0	0	4	4	4	4	4
Somalia			0	0	5	7	7	7	16	24
South Africa	11 O	262	1 163	1 352	2 174	3 447	4 801	4 905	5 990	6 221
South Sudan Sudan	8	0 15	0 17	0 20	0 26	0 36	1 59	1 80	1 117	1 136
Tanzania	1	4	11	13	19	22	26	24	24	24
Togo	0	0	1	2	2	3	4	5	6	56
Tunisia	6	10	17	28	38	47	64	80	95	95
Uganda	17	19	20	22	24	44	67	77	87	92
Zambia Zimbabwe	1	0 2	0	0 4	0 5	0 6	1 11	96 16	96 18	96 30
Ziiiibabwe		2	3	4	J	O	"	10	10	30
Asia	16 210	36 225	60 687	90 573	140 470	211 815	276 339	332 679	410 144	485 848
Afghanistan	16	17	18	19	20	22	22	31	31	31
Bangladesh	66	94	119	145	161	185	201	239	284	329
Bhutan Brunai Daram	0	0 1	0 1	0 1	0 1	0	0	0 1	0 1	0 5
Brunei Darsm Cambodia	ا 5	6	9	12	18	29	29	124	315	428
China	6 719	17 759	28 399	43 549	77 819	130 832	175 262	204 971	253 964	306 973
Chinese Taipei	231	410	636	884	1 245	1 768	2 738	4 150	5 817	7 700
India	982	1 599	3 773	5 693	9 979	18 252	27 453	35 203	39 385	49 684
Indonesia	26	38	42	79	88	98	65	155	185	211
Japan	6 632	13 599	23 339	34 150	42 040	49 500	56 162	63 192	69 764	74 191
Kazakhstan Korea DPR	2 2	16 6	76 11	144 23	157 32	175 35	490 38	1 150 42	1 719 42	2 834 52
Korea Rep	1 024	1 555	2 481	3 615	4 502	5 835	8 099	11 952	14 575	18 161
Lao PDR	0	0	2	2	2	8	34	34	34	34
Malaysia	32	139	205	266	344	394	545	894	1 483	1 787
Maldives	1	2	4	5	7	11	16	21	27	31
Myanmar	5	5	5	5 21	15 72	48	64	89	90	90
Myanmar Nepal	3 9	4 11	6 12	21 13	32 14	44 54	48 52	88 51	84 67	80 93
Pakistan	46	101	165	266	590	655	679	763	860	1 083
Philippines	2	3	28	173	784	908	917	982	1 058	1 370

Solar energy Énergie solaire Energía solar

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Singapore	8	12	25	46	97	116	161	276	336	433
Sri Lanka	10	13	20	31	63	131	185	285	371	434
Thailand	382	829	1 304	1 425	2 451	2 702	2 967	2 988	2 988	3 049
Timor Leste	1	1	1	1	1	1	1	1	1	1
Uzbekistan		1	1	1	2	3	4	4	4	104
Viet Nam	5	5	5	5	5	8	105	4 993	16 660	16 660
C America + Carib	202	282	343	1 040	1 246	1 611	1 997	2 483	2 791	3 276
Anguilla	0	0	1	1	2	2	1	2	2	2
Antigua Barb	0	0	0	3	4	4	9	9	13	13
Aruba	1	2	5	6	6	6	6	6	6	6
Bahamas	1	1	1	1	1	1	1	2	2	2
Barbados	2	2	7	9	20	21	22	35	50	50
Belize	2	2	3	4	4	4	4	6	7	7
BES Islands	^		•	0	2	4	6	7	7	7
Br Virgin Is	0	0	0	0	0	0 9	0 10	0	0 13	0
Cayman Is Costa Rica	10	13	17	22	24	28	28	11 48	57	14 74
Cuba	1	11	22	24	37	65	128	159	217	246
Curacao	Ö	3	8	10	11	11	12	12	13	13
Dominica	Ö	Ō	0	0	1	1	0	0	0	0
Dominican Rep	2	8	15	25	73	106	205	315	386	490
El Salvador	0	13	13	24	25	121	198	403	478	478
Grenada	0	1	1	1	2	2	3	3	4	4
Guadeloupe	60	67	67	67	68	70	70	81	85	86
Guatemala	2	3	10	93	93	99	101	101	101	101
Haiti	1	1	2	2	2	3	3	3	3	3
Honduras	5	5	5	393	414	454	514	514	514	514
Jamaica	2	2	4	7	28	56	56	93	93	93
Martinique	60	62	63	65	67	68	71	76	76	78
Montserrat		1	1	1	1	14	14	0 16	0 16	1 16
Nicaragua Panama	3	4	6	49	93	147	210	222	242	465
Puerto Rico	47	77	82	212	247	302	305	336	384	491
St Barth		**	02	212	0	0	0	0	0	0
St Kitts Nevis	0	0	1	1	2	2	2	2	2	2
St Lucia	0	0	0	1	1	1	4	4	4	4
St Martin		1	2	3	2	0	0	1	1	1
St Vincent Gren	0	0	0	1	1	1	1	2	2	2
Trinidad Tobago	3	3	3	4	4	4	4	4	4	4
Turks Caicos				0	0	0	0	1	1	1
US Virgin Is	1	1	5	9	9	5	10	10	10	10
Eurasia	13	21	48	316	936	3 678	5 651	7 359	8 230	9 704
Armenia			2	-	1	2	17	50	95	183
Azerbaijan Georgia	1	1	2	5	25 0	28 0	35 0	35 1	38 1	43 1
Russian Fed	0	1	5	61	76	225	535	1 276	1 428	1 661
Turkey	12	19	41	250	834	3 422	5 064	5 996	6 668	7 817
Europe	73 723	84 170	91 092	99 605	106 171	112 302	121 620	142 436	162 835	185 877
Albania	1	1	1	1	1	1	1	14	17	22
Andorra Austria	337	626	0 785	0 937	0 1 096	0 1 269	1 1 455	2 1 702	3 2 043	4 2 692
Belarus	337	020	4	6	47	80	154	154	160	269
Belgium	2 647	2 902	3 015	3 132	3 329	3 621	4 000	4 637	5 575	6 585
Bosnia Herzg	0	1	7	8	14	16	18	22	35	53
Bulgaria	1 013	1 020	1 026	1 029	1 028	1 036	1 033	1 048	1 097	1 186
Croatia	4	19	33	48	56	60	68	85	109	109
Cyprus	17	35	64	76	84	110	118	151	229	316
Czechia	2 022	2 064	2 067	2 075	2 068	2 070	2 075	2 086	2 123	2 119
Denmark	402	571	607	782	851	906	998	1 080	1 304	1540
Estonia	0	2	3	7	10	15	32	121	208	414
Faroe Islands	0		-11	17	70	00	140	0	0	0
Finland	8 4 359	9 5 277	11 6 034	17 7 138	39 7 702	82 8 610	140 9 672	222 10 817	318 12 031	404 14 718
France Germany	4 359 34 077	36 710	37 900	7 136 39 224	40 679	42 293	45 158	48 914	53 721	58 461
Greece	1 536	2 579	2 596	2 604	2 604	2 606	2 652	2 834	3 288	3 530
Hungary	12	35	89	172	235	344	728	1 400	2 131	2 131
Iceland	1	1	1	3	4	4	5	7	7	7
Ireland	1	1	2	2	6	17	32	58	93	136
Italy	16 790	18 190	18 600	18 907	19 289	19 688	20 114	20 871	21 656	22 698
Kosovo*				0	2	7	7	10	10	10
Latvia	0	0	0	0	1	1	2	3	5	8
Lithuania	7	68	69	69	70	78	92	133	248	338
Luxembourg	75	95	110	116	122	128	131	160	187	209
Malta Maldana Dan	16	29	55	75	94	112	132	155	188	196
Moldova Rep	1	1	1 2	1 3	2	2	3 4	5 5	4 6	8 7
Montenegro Netherlands	1 287	1 650	1 007	1 526	2 135	2 911	4 608	7 226	10 950	7 14 249
recticitatios	201	030	1007	1 320	ررا ۲	االا ک	7 000	, 220	10 330	17 243

Solar energy Énergie solaire Energía solar

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North Macedonia	4	7	15	17	17	17	21	26	94	94
Norway	10	11	13	15	27	45	68	120	160	225
Poland	1	2	27	108	187	287	562	1 5 3 9	3 955	6 257
Portugal	238	296	415	447	513	579	667	901	1 100	1 801
Romania	41	761	1 293	1 3 2 6	1 372	1 374	1 386	1 398	1 383	1 3 9 8
Serbia	7	10	13	16	17	18	21	23	31	52
Slovakia	513	533	533	533	533	528	472	590	535	535
Slovenia	142	187	223	238	233	247	247	278	370	367
Spain	6 569	6 994	7 001	7 008	7 017	7 027	7 068	11 143	12 589	15 952
Sweden	24	43	60	104	153	244	428	714	1 107	1 577
Switzerland	437	756	1 061	1 394	1 664	1 906	2 173	2 498	2 973	3 449
UK	1 753	2 937	5 528	9 601	11 914	12 760	13 073	13 346	13 462	13 689
Ukraine	372	748	819	841	955	1200	2 003	5 936	7 331	8 062
European Union (27)	71 460	80 033	83 974	88 080	91 888	96 630	104 461	120 677	138 982	160 382
Middle East	309	569	819	1 076	1 582	2 217	3 410	6 181	7 473	8 411
Bahrain	1	1	5	5	6	6	6	9	10	11
Iran IR	0	1	9	9	43	184	286	346	430	456
Iraq		30	37	37	37	37	37	37	37	37
Israel	278	383	593	772	880	988	1 291	2 056	2 472	2 555
Jordan	0	0	0	6	287	397	700	1 186	1 448	1 521
Kuwait	0	0	2	3	31	32	43	93	93	93
Lebanon	0	0	2	9	22	35	58	79	79	79
Oman		1	1	2	2	8	8	9	112	138
Palestine	1	1	3	12	25	35	40	82	117	117
Qatar	1	2	4	4	5	5	5	5	5	5
Saudi Arabia	14	22	24	24	24	34	84	109	109	439
Syrian AR						0	1	2	2	2
United Arab Em Yemen	13 1	126 2	133 5	134 60	141 80	355 100	598 250	1 918 250	2 306 253	2 705 253
N America	9 452	14 364	19 668	26 248	38 014	47 173	57 220	68 593	84 067	105 878
Canada Greenland	766	1 210	1843	2 519	2 665	2 932	3 095 0	3 327 0	3 342 0	3 630 0
Mexico	73	109	174	287	633	1 126	2 555	4 440	5 163	7 040
USA	8 613	13 045	17 651	23 442	34 716	43 115	51 570	60 826	75 562	95 209
Oceania	3 829	4 609	5 356	6 077	6 856	7 572	8 875	13 286	17 706	19 442
Amer Samoa	2	2	2	2	4	4	5	5	5	5
Australia	3 799	4 568	5 287	5 946	6 689	7 354	8 625	12 969	17 344	19 076
Cook Is	0	1	2	3	3	3	5	5	5	5
Fiji	1	1	2	3	5	7	9	10	10	10
Fr Polynesia	14	17	25	28	32	35	37	41	41	41
Guam	0	1	1	32	35	35	35	35	35	35
Kiribati	0	1	1	2	3	3	3	3	3	3
Marshall Is	0	1	1 1	1	2	2	2 2	2 2	2 2	2
Micronesia	1	1	_	1	1	1	_	_	_	2
Nauru New Caledon	0 3	0 3	0 3	0 7	1 9	1 26	1 29	2 62	2 80	2 80
New Zealand	4	8	22	37	53	70	90	116	142	146
Niue Zedidila	0	0	0	0	0	0	0	1	1	1
Palau	1	1	1	1	1	1	2	2	2	2
Papua N Guin	0	0	0	1	i 1	1	1	3	3	3
Samoa	Ō	Ō	3	5	7	14	14	14	14	14
Solomon Is	1	1	1	1	2	3	3	3	3	3
Tokelau	1	1	1	1	1	1	1	1	1	1
Tonga	1	2	2	3	3	6	6	6	6	6
Tuvalu	0	0	0	2	2	2	2	2	2	2
Vanuatu	0	0	0	0	2	3	4	4	4	4
S America	164	197	464	862	1 511	3 672	5 512	8 541	12 753	19 649
Argentina	6	8	8	9	9	9	191	442	764	1 071
Bolivia	4	6	6	6	6	8	70	120	120	170
Brazil	7	13	21	46	128	1 207	2 435	4 613	7 879	13 055
Chile	2	15	221	576	1 125	1 809	2 137	2 654	3 205	4 468
Colombia	1	1	1	1	2	11	13	26	86	184
Ecuador	0	4	26	26	26	26	27	28	28	28
Falklands Malv				0	0	0	0	0	0	0
Fr Guiana	36	37	37	47	47	47	47	47	55	55
Guyana	1	1	1	2	2	3	6	8	8	8
Paraguay	0	0	0	0	0	0	0	0	0	0
Peru	103	109	130	135	146	298	324	335	335	336
Suriname	1	1	6	6	7	8	9	9	9	9
Uruguay	1	1	3 3	6 5	10	243	248	254	258	258
Venezuela	2	2	3	5	5	5	4	5	5	5

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CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	101 745	137 227	175 617	223 204	295 229	390 207	483 012	584 686	710 281	843 086
Africa	346	667	1 573	1 931	2 988	4 711	7 210	8 415	9 704	10 302
Algeria	10 -	11 -	1	49	219	400 o	423 u	423 e	423 e	423 e
Angola Benin	10 e	11 e	12 e 0	13 e 1	13 e 3	13 e 3	13 e 3	13 e 3 e	13 e 3 e	13 e 3 e
Botswana	2 e	2 e	2 e	2 e	3 e	3 e	4 e	6 e	6 e	6 e
Burkina Faso	6 e	6 e	7 e	8 e	10 e	47 e	62 e	62 e	62 e	62 e
Burundi	2 e	3 e	3 e	3 e	4 e	5 e	5 e	5 e	5 e	5 e
Cabo Verde	6	6	6	6 7 e	6 9 e	6	8 e	8 e	8 e	8 e
Cameroon Cent Afr Rep	3 e 0 e	4 e 0 e	6 e 0 e	7 e 0 e	9 e 0 e	12 e 0 e	14 e 0 e	14 e 0	14 e 0 e	14 e 0 e
Chad	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 u	1 e
Congo DR	0 e	0 e	1 e	1 e	3 u	5 u	20 e	20 e	20 e	20 e
Congo Rep	0 e	0 e	0 e	0 e	0 e	1 e	1 e	1 e	1 e	1 e
Cote d Ivoire Djibouti	2 e 0 e	3 e 0 e	4 e 0 e	5 e 0 e	5 e O u	8 e 0 u	13 e O u	13 e 0 u	13 e 0 e	13 e 0 e
Egypt	15	15	15	16 o	39 u	160 o	744 o	1 627 o	1 655 u	1 655 e
Eritrea	0 e	0 e	8 e	8 e	8 e	10 e	18 e	20 e	22 e	24 e
Eswatini	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	11 e
Ethiopia Gabon	1 1 e	3 1 e	9 1 e	10 1 e	14 1 e	12 1 e	12 1 e	12 1 e	20 1 e	21 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 о	6 o	31 o	38 o	47 o	78 e	85 e	108 o	108 e
Guinea	1 e	3 e	3 e	13 e	13 e	13 e	13 e	13 e	13 e	13 e
Guinea Bissau	3 e	7 e	16 e	0 e 30 e	0 e 31 e	0 e 38 e	1 o 105 e	1 e 106 e	1 e 106 u	1 e 147 e
Kenya Lesotho	3 6	7 e 0 e	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	2 u	3 u	3 e	3 e	3 e
Libya	5 u	5 u	5 u	5 u	5 u	5 u	5 e	5 e	5 e	6 u
Madagascar Malawi	3 e 3 e	5 e 5 e	7 e 8 e	9 e 12 e	11 e 12 e	13 e 19 e	33 26 e	33 e 80 e	33 e 82 e	33 e 142 e
Mali	16 e	16 o	ое 16 е	12 e 17 e	12 e 18 e	19 e 19 e	26 e 19 e	оо е 19 е	62 е 70 е	142 e 100 u
Mauritania		18 o	18 o	18 o	35 o	35 o	87 u	88 u	88 e	88 e
Mauritius	1	2	18	19	27 e	29 e	67 e	83 e	83 e	83 e
Mayotte	13 o	13 o 15	13 o	13 o 20	13 o	15 o	15 o	15 e	18	18
Morocco Mozambique	15 2 e	5 e	20 7 e	10 e	22 13 e	24 o 15 e	194 o 55 e	194 o 55 e	194 55 e	234 e 55 e
Namibia	11 e	15 e	16 e	21 e	36 e	75 e	93 e	145 e	145 e	145 e
Niger	4 e	5 e	6 e	7 e	8 e	9 u	27 u	27 u	27 e	27 e
Nigeria	15 e	15 e	16 e	17 e	18 e	19 e	19 u	28 e	28 e	33 e
Reunion Rwanda	153 o 0 e	156 o 1 e	167 o 10 e	187 o 14 e	186 o 19 e	188 o 28 e	190 o 38 e	191 e 38 e	205 e 38 e	217 e 38 e
Sao Tome Prn	0 0	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e	0 e
Senegal	6 e	7 e	9 e	9 e	42 e	107 e	148 e	171 e	171 e	238 e
Seychelles	0	0 o 0 u	1 0	1 o 0 u	2 o 0 u	3 e	4 e	4 e	4 e	9 e
Sierra Leone Somalia	0 u	O u	0 u 0 e	0 u 0 e	5 e	4 u 7 e	4 u 7 e	4 e 7 e	4 e 16 u	4 u 24 u
South Africa	11 e	262 e	1063 e	1 252 e	1974 e	3 147 e	4 401 e	4 405 e	5 490 e	5 721 e
South Sudan	0 е	0 e	0 e	0 е	0 u	0 u	1 e	1 u	1 e	1 u
Sudan	8 u	15 u	17 u	20 u	26 u	36 u	59 u	80 u	117 u	136 u
Tanzania Togo	1 e 0 e	4 e 0 e	11 e 1 e	13 e 2 e	19 e 2 e	22 e 3 e	26 e 4 e	24 e 5 e	24 e 6 e	24 e 56 u
Tunisia	6 e	10 e	17 e	28 e	38 e	47 e	64 e	80 u	95 e	95 e
Uganda	17 e	19 e	20 e	22 e	24 e	44 e	67 e	77 e	87 e	92 e
Zambia	e	0 e	0 e	0 e	0 e	0 e	1 e	96 e	96 e	96 e
Zimbabwe	1 e	2 e	3 e	4 e	5 e	6 e	11 e	16 e	18 e	30 e
Asia	16 200	36 055	60 343	90 228	140 105	211 451	275 760	331 936	409 250	484 930
Afghanistan Bangladesh	16 e 66 o	17 e 94 o	18 e 119 o	19 e 145 o	20 e 161 o	22 e 185 o	22 e 201 o	31 e 239 e	31 e 284 e	31 e 329 e
Bhutan	00 0 0 e	94 0 0 e	0 e	0 e	0 e	0 e	201 0 0 e	239 e 0 e	204 e 0 e	0 e
Brunei Darsm	1	1	1	1	1	1	1	1	1 0	5 e
Cambodia	5 e	6 e	9 e	12 e	18 e	29 e	29 e	124 e	315 e	428 e
China Chinese Taipei	6 718 231 o	17 748 410 o	28 388 636 o	43 538 884 o	77 788 1 245 o	130 801 1 768 o	175 016 2 738 o	204 575 e 4 150 o	253 418 o 5 817 o	306 403 e 7 700 o
India	979 e	1446 e	3 444 e	5 365 e	9 651 e	17 923 e	27 125 e	34 861 e	39 043 e	49 342 e
Indonesia	26 e	38 e	42 e	79 e	88 e	98 e	65 o	155 o	185 o	211 o
Japan	6 632	13 599	23 339	34 150	42 040	49 500	56 162	63 192	69 764 o	74 191 o
Kazakhstan Korea DPR	2 e 2 u	16 6 u	76 11 u	144 23 u	157 32 u	175 35 u	490 o 38 u	1 150 e 42 u	1 719 42 e	2 834 e 52 e
Korea Rep	1 024	1 555	2 481	3 615	4 502 o	5 835	8 099	11 952	14 575 o	18 161 o
Lao PDR	0 е	0 e	2 e	2 e	2 e	8 e	34 e	34 e	34 e	34 e
Malaysia	32 o	139 o	205 e	266 e	344 e	394 e	545 e	894 e	1483 e	1787 e
Maldives	1 0	2 0	4 0	5 o	7 o	11 0	16 o	21 u	27 u	31 u
Mongolia Myanmar	5 e 3 e	5 e 4 o	5 e 6 o	5 e 21 o	15 e 32 o	48 e 44 o	64 e 48 o	89 e 88 u	90 84 e	90 e 80 e
Nepal	9 0	11 0	12 o	13 o	14 o	54 e	52 e	51 e	67 e	93 e
Pakistan	46 e	101 e	165 e	266 e	590 e	655 e	679 e	763 e	860 e	1083 e
Philippines	2 0	3 0	28 o	173 o	784 o	908 o	917 o	982 o	1058 o	1370 e
Singapore Sri Lanka	8 o 10 e	12 o 13 e	25 o 20 e	46 o 31 e	97 o 63 e	116 o 131 e	161 o 185 e	276 o 285 e	336 o 371 e	433 o 434 e
OH EGIING	10 6	12 6	20 €	21 6	03 6	131 6	102 6	200 €	3/1 6	7J4 C

Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Thailand	377	824	1 299	1 420	2 446	2 697	2 962 o	2 983 o	2 983 o	3 044 e
Timor Leste	3// 1 e	024 1 e	1 299 1 e	1 420 1 e	2 446 1 e	2 697 1 e	2 962 0 1 e	2 963 0 1 e	2 963 0 1 e	3 044 e 1 e
Uzbekistan	ı e	1 e	1 e	1 e	2	3	4	4 e	1 e 4 e	104 e
Viet Nam	5 e	5 e	5 e	5 e	5 e	8 e	105 e	4 993 e	16 660 e	16 660 e
C America + Carib	202	282	343	1040	1246	1 611	1 997	2 483	2 791	3 276
Anguilla	0 e 0	0 e 0	1 e 0	1 e 3	2 e 4 e	2 e	1 e 9 e	2 e 9 e	2 e	2 e 13 e
Antigua Barb	1 e	0 2 e	5 e	5 6	4 e 6	4 e 6	9 e 6 e	9 e 6 e	13 e 6 e	13 e 6 e
Aruba Bahamas	1 e	2 e 1 e	1 e	1 e	1 e	1 e	1 e	2 e	ое 2 е	ое 2 е
Barbados	2 u	2 u	7	9	20 u	21 u	22 u	2 e 35 u	2 e 50 o	2 e 50 e
Belize	2 u	2	3	4	20 u	4	4 e	55 u 6 u	7 e	7 e
BES Islands	2	2	3	0	2	4	6 0	7 o	7 e	7 e
Br Virgin Is	0	0	0	Ö	0	0	0 e	7 o	0 e	0 e
Cayman Is	Ŭ	Ü	Ü	Ü	3 u	9 u	10 u	11 u	13 o	14
Costa Rica	10 o	13 o	17 o	22 o	24 o	28 o	28 o	48 e	57 e	74 e
Cuba	1	11	22	24	37	65 u	128 u	159 u	217 u	246
Curacao	0	3	8	10	11 o	11 o	12 o	12 e	13 o	13 e
Dominica	0	0	0	0	1	1	0 e	0 e	0 е	0 е
Dominican Rep	2	8	15	25	73	106	205	315 o	386 o	490 e
El Salvador	0 e	13 e	13 e	24 e	25 e	121	198	403 o	478 e	478 e
Grenada	0 0	1 0	1 0	1 0	2 0	2 0	3 o	3 0	4	4
Guadeloupe	60	67	67	67	68	70	70 o	81 o	85 o	86
Guatemala	2 e	3 e	10 e	93 e	93 e	99 e	101 e	101 e	101 e	101 e
Haiti Honduras	1 e 5 e	1 e 5 e	2 e 5 e	2 e 393 e	2 e 414 e	3 e 454 e	3 e 514 e	3 e 514 o	3 e 514 o	3 e 514 e
Jamaica	2	э е 2 е	э е 4 е	393 e 7 e	28 e	454 e 56 e	56 e	93 e	93 e	93 e
Martinique	60	62	63 o	65	67	68	71	76	76	78
Montserrat	00	02	03 0	05	07	00	,,	0 u	0 e	1
Nicaragua		1 o	1	1	1	14 o	14 o	16 o	16 o	16 e
Panama	3	4	6	49	93	147 o	210 e	222 u	242 e	465 o
Puerto Rico	47 o	77 o	82 o	212 o	247 o	302 e	305 o	336 o	384 e	491 e
St Barth					0 о	0 о	0 о	0 e	0 e	0 e
St Kitts Nevis	0	0	1 e	1 e	2 e	2 e	2 e	2 e	2 e	2 e
St Lucia	0	0	0	1	1	1	4 u	4 e	4 o	4 e
St Martin		1	2	3	2 o	0 о	0 е	1 o	1 o	1 e
St Vincent Gren	0	0	0	1	1	1	1 e	2 u	2 e	2 e
Trinidad Tobago	3	3	3	4	4	4	4	4	4	4
Turks Caicos US Virgin Is	1 e	1 e	5 e	0 o 9 e	0 e 9 e	0 u 5 e	0 u 10	1 u 10	1 e 10	1 e 10
Eurasia	13	20	47	315	935	3 677	5 650	7 358	8 229	9 703
Armenia					1	2	17 o	50 o	95 e	183 e
Azerbaijan	1	1	2 u	5	25	28 u	35 o	35	38 u	43 e
Georgia					0 u	0 u	0 u	1 u	1 e	1 e
Russian Fed	0	1	5 e	61 e	76 e	225 e	535 e	1276 e	1 428	1661 e
Turkey	12 u	18 u	40	249	833	3 421 o	5 063	5 995	6 667 o	7 816 o
Europe	71 716	81 859	88 780	97 293	103 859	109 989	119 308	140 115	160 514	183 556
Albania	1 e	1 e	1 e	1 e	1	1	1 e	14	17 e	22 e
Andorra			0 о	0 о	0 о	0 о	1 o	2 o	3 о	4 e
Austria	337	626	785	937	1096	1 269	1 455	1 702	2 043	2 692 e
Belarus	2.647	2.002	4	6	47	80	154	154	160	269
Belgium	2 647 0 o	2 902 1 o	3 015 7 o	3 132 8 o	3 329 14 o	3 621 16	4 000	4 637	5 575	6 585 o 53 e
Bosnia Herzg Bulgaria	1 013	1020	1 026	1 029	1028	1 036	18 o 1 033	22 1 048	35 o 1 097	1 186 o
Croatia	4	19	33	48	56	60	68	85	1097	100 o
Cyprus	17	35	64	76	84	110	118	151	229	316 e
Czechia	2 022	2 064	2 067	2 075	2 068	2 070	2 075	2 086	2 123	2 119 o
Denmark	402	571	607	782	851	906	998 o	1 080	1 304	1540 o
Estonia	0 u	2 u	3 u	7 u	10	15	32	121	208	414 o
Faroe Islands								0	0 о	0 е
Finland	8	9	11	17	39	82	140	222	318	404 e
France	4 359	5 277	6 034	7 138	7 702	8 610	9 672	10 808	12 022	14 709 e
Germany Greece	34 075 1 536	36 708 2 579	37 898 2 596	39 222 2 604	40 677 2 604	42 291 2 606	45 156 2 652	48 912 2 834	53 719 3 288	58 459 o 3 530 o
Hungary	12	35	89	172	235	344	728	1400	2 131	2 131 e
Iceland	1 e	1 e	1 e	3 e	4 e	4 e	725 5 e	7 e	7 e	7 e
Ireland	1	1	2	2	6	17	32	58 o	93 e	136 e
Italy	16 785	18 185	18 594	18 901	19 283	19 682	20 108	20 865	21 650	22 692 o
Kosovo*				0 о	2	7	7 o	10	10 e	10 e
Latvia	0 e	0 e	0 e	0	1	1	2	3	5	8 o
Lithuania	7	68	69	69	70	78	92	133	248	338 e
Luxembourg	75	95	110	116	122	128	131	160	187	209 o
Malta	16	29	55	75	94	112	132	155	188	196 o
Moldova Rep	4 .	4 .	1	1	2 0	2 0	3	5	4	8 0
Montenegro	1 e 287	1 e	2 e	1 526	3 e	3 e	4	5 7.226	6	7 e
Netherlands North Macedonia	287 4	650 7	1 007 15	1 526 17	2 135 17	2 911 17	4 608 21	7 226 26 o	10 950 94	14 249 o 94 e
Norway	10 u	/ 11 u	13 u	17 15 u	17 27 u	17 45 u	68	120	160	225 e
Poland	1	2	27	108	187	287	562	1 539	3 955	6 257

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CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Portugal	238	296	415	447	513	579	667	901	1100	1801 e
Romania	41	761	1 293	1 326	1 372	1 374	1 386	1 398	1 383	1398 o
Serbia	7 e	10 e	13 e	16 e	17 e	18 e	21 e	23 e	31	52 e
Slovakia	513	533	533	533	533	528	472	590	535	535 e
Slovenia	142	187	223	238	233	247	247	278	370	367 o
Spain	4 569	4 690	4 697	4 704	4 713	4 723	4 764	8 839	10 285	13 648 e
Sweden	24	43	60	104	153	244	428	714	1 107	1577 e
Switzerland	437	756	1 061	1 394	1664	1906 o	2 173	2 498	2 973 o	3 449 e
UK	1 753	2 937	5 528	9 601	11 914	12 760	13 073	13 346	13 462 o	13 689 o
Ukraine	372	748	819 o	841 o	955 o	1200 o	2 003 o	5 936 o	7 331	8 062 u
European Union (27)	69 453	77 722	81 662	85 768	89 576	94 318	102 149	118 356	136 661	158 061
Middle East	303	463	713	970	1 476	2 111	3 254	5 733	7 031	7 969
Bahrain	1 u	1 e	5 u	5 e	6 u	6 e	6 u	9 о	10 o	11 u
Iran IR	0	1	9	9	43	184 o	286 e	346 e	430 e	456 e
Iraq		30 o	37 o	37 e	37 e	37 e	37 e	37 e	37 e	37 e
Israel	272	377	587	766	874	982	1 285	1 807	2 230 o	2 313
Jordan	0 0	0 0	0 0	6 o	287 u	397 u	700 u	1 186 u	1448 u	1 521 e
Kuwait	0 0	0 0	2 0	3 o	31 o	32 o	43	43 o	43 e	43 e
Lebanon	0 e	0 е	2 e	9 e	22 e	35 e	58 o	79 o	79 e	79 o
Oman		1 u	1 e	2 e	2 e	8 e	8 e	9 e	112 e	138 e
Palestine	1	1	3	12	25	35	40	82 o	117 e	117 e
Qatar	1 u	2 u	4 u	4 e	5 u	5 e	5 e	5 e	5 e	5 e
Saudi Arabia	14 u	22 u	24 e	24 e	24 e	34 e	34 e	59 e	59 e	389 e
Syrian AR	17	20	77	77	40	0 u	1 u	2 u	2 e	2 e
United Arab Em Yemen	13 e 1 o	26 e 2 o	33 e 5 o	33 e 60 o	40 e 80 o	255 u 100 e	498 o 250 u	1 818 o 250 e	2 205 u 253 u	2 605 e 253 e
N America	8 976	13 078	18 001	24 490	36 256	45 415	55 448	66 821	82 305	104 369
Canada	766	1 210	1843	2 519	2 665	2 932	3 095	3 327	3 342 u	3 630
Greenland	77 -	100 -	174 -	207 -	677 -	1 100 -	0 0	0 0	0 e	0 e
Mexico USA	73 o 8 137	109 o 11 759	174 o 15 984	287 o 21 684	633 o 32 958	1 126 o 41 357	2 541 u 49 812	4 426 o 59 068	5 149 o 73 814 o	7 026 o 93 713 o
Oceania	3 826	4 606	5 353	6 074	6 853	7 570	8 873	13 284	17 704	19 440
Amer Samoa Australia	2 o 3 796	2 o 4 565	2 o 5 284	2 o 5 943	4 e 6 686	4 e 7 352	5 e 8 623	5 e 12 967	5 e 17 342 o	5 e 19 074 o
Cook Is	0 e	1 e	2 e	3 e	3 e	3 e	5 e	5 e	5 e	5 e
Fiji	1 u	1 u	2 u	3 u	5 u	7 u	9 u	10 u	10 e	10 e
Fr Polynesia	14 o	17 o	25 o	28 o	32 o	35 o	37 o	41 o	41 o	41 e
Guam	0 о	1 o	1 o	32 o	35 o	35 o	35 e	35 e	35 e	35 e
Kiribati	0 о	1 o	1 u	2 u	3 u	3 u	3 e	3 e	3 e	3 e
Marshall Is	0 e	1 e	1 e	1 e	2 e	2 e	2 e	2 e	2 e	2 e
Micronesia	1 e	1 e	1 e	1 e	1 e	1 e	2 u	2 e	2 e	2 e
Nauru	0 e	0 e	0 e	0 e	1 e	1 e	1 e	2 e	2 e	2 e
New Caledon	3 0	3 o	3 0	7 o	9 0	26 o	29 o	62 e	80 e	80 e
New Zealand	4	8	22	37	53	70	90	116	142 o	146
Niue	0 e	0 e	0 e	0 e	0 e	0 e	0 e	1 u	1 e	1 e
Palau	1 0	1 0	1 0	1 0	1 0	1 0	2 e	2 e	2 e	2 e
Papua N Guin Samoa	0 e 0 e	0 e 0 e	0 e 3 e	1 u 5 e	1 u 7 e	1 u 14 e	1 u 14 e	3 e 14 e	3 e 14 e	3 e 14 e
Solomon Is	1 e	1 e	1 e	1 e	7 e 2 e	3 e	3 e	3 u	3 e	3 e
Tokelau	1 u	1 u	1 u	1 u	1 u	1 e	1 e	1 e	1 e	1 e
Tonga	1 e	2 0	2 0	3 o	3 o	6 0	6 0	6 e	6 e	6 e
Tuvalu	0 0	0 0	0 0	2 0	2 0	2 0	2 e	2 e	2 e	2 e
Vanuatu	0 e	0 e	0 е	0 e	2 e	3 e	4 e	4 e	4 e	4 e
S America	164	197	464	862	1 511	3 672	5 512	8 541	12 753	19 541
Argentina	6 o	8 0	8 o	9 o	9 o	9 e	191 e	442 o	764 e	1 071 e
Bolivia	4 e	6 e	6 e	6 e	6 e	8 e	70 o	120 o	120 e	170 e
Brazil	7 e	13 e	21 e	46 e	128 e	1207 e	2 435 e	4 613 o	7 879 o	13 055 o
Chile	2	15	221	576	1 125	1809 o	2 137 o	2 654 o	3 205 o	4 360 o
Colombia	1	1	1	1	2	11	13	26	86	184 e
Ecuador	0	4 o	26 o	26 o	26 o	26 o	27 e	28 o	28 o	28 o
Falklands Malv				0 о	0 о	0 о	0 о	0 e	0 е	0 e
Fr Guiana	36 o	37 o	37 o	47 o	47 o	47 o	47 o	47 o	55 e	55
Guyana	1	1	1	2	2	3	6 e	8 e	8 e	8 e
Paraguay	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 e	0 e
Peru	103 e	109 e	130 e	135 e	146 e	298 e	324 o	335 o	335 e	336 o
Suriname	1 e	1 e	6 e	6 e	7 e	8 e	9 0	9 e	9 e	9 e
Uruguay	1	1 0	3 o	6 o	10 o	243	248	254	258 o	258 e
Venezuela	2	2	3	5	5	5	4 e	5 o	5 e	5 e

Concentrated solar power Solaire thermique à concentration Energía solar termoeléctrica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	2 567	3 942	4 599	4 850	4 970	5 069	5 808	6 373	6 507	6 387
Africa	65	65	165	325	425	525	985	1 085	1 085	1 085
Algeria	25 o	25 e	25 e	25 e	25 e	25 e				
Egypt	20	20	20	20	20	20 o	20 e	20 e	20 e	20 e
Morocco	20	20	20	180	180	180 o	540	540	540	540 e
South Africa			100 o	100 o	200 о	300 о	400 o	500 u	500 o	500 e
Asia	10	170	345	345	365	365	580	744	894	918
China	1	11	11	11	31 u	31 u	246 u	396 u	546 u	570 u
India	4 e	154 u	329 u	329 u	329 u	329 u	329 u	343 u	343 u	343 u
Korea Rep	0 е	0 e	0 е	0 е	0 е	0 е				
Thailand	5	5	5	5	5	5	5 e	5 e	5 e	5 e
Eurasia		1	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	1 e
Europe	2 007	2 311	2 312	2 312	2 312	2 312	2 312	2 321	2 321	2 321
France								9 о	9 e	9 e
Germany	2	2	2	2	2	2 e	2	2	2 e	2 e
Italy	5 o	5 o	6 o	6 о	6 o	6 o	6 e	6 e	6 e	6 e
Romania						0	0	0 e	0 е	0 e
Spain	2 000	2 304	2 304	2 304	2 304	2 304	2 304	2 304	2 304 o	2 304 o
European Union (27)	2 007	2 311	2 312	2 312	2 312	2 312	2 312	2 321	2 321	2 321
Middle East	6	106	106	106	106	106	156	448	442	442
Israel	6 e	6 e	6 e	6 e	6 e	6 e	6 e	248 u	242 o	242 e
Kuwait								50 e	50 e	50 e
Saudi Arabia							50 u	50 e	50 e	50 e
United Arab Em		100 o	100 o	100 u	100 u	100 u	100 e	100 e	100 e	100 e
N America	476	1 286	1 667	1 758	1 758	1 758	1 772	1 772	1 762	1 510
Mexico							14 o	14 o	14 o	14 o
USA	476	1 286	1667	1 758	1 758	1758 o	1758 o	1758 o	1748 o	1496 o
Oceania	3	3	3	3	3	2	2	2	2	2
Australia	3	3	3	3	3	2	2	2 o	2 e	2 e
S America										108
Chile										108

Bioenergy Bioénergie Bioenergía

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	77 198	84 545	90 605	96 351	105 245	110 966	118 256	123 940	133 025	143 371
Africa	1 187	1 261	1 361	1 463	1 499	1 576	1 687	1 739	1 740	1 785
Angola			51	51	51	51	51	51	51	51
Burkina Faso		0	0	1	1	1	1	1	1	1
Burundi	4	4	4	4	4	4	4	4	4	4
Chad	2	2	2	2	2	2	2	2	2	2
Congo DR	0	0	0	0	0	2	3	3	3	3
Congo Rep	12	12	12	12	12	12	12	12	12	12
Egypt	67	67	67	67	67	67	67	79	79	79
Eswatini	123	123	106	106	106	106	106	106	106	106
Ethiopia	20	71	71	119	145	205	290	290	290	335
Gabon	7	-		1	1	1	1	1	1	1
Ghana	7	7	8	8	8	8	8	8	8	8
Kenya	67 0	67 0	67 0	88 0	88 0	87 0	87 0	87 0	87 0	87 0
Madagascar										
Malawi	12	12	12	12	12	12	12	12	12	12
Mali	32	32	40	40	40	40	40	40	40	40
Mauritius Morocco	79 1	80 1	80 1	91 5	91 7	91 7	91 7	91 7	91 7	91 7
	14	14	14	5 14	14	14	14	14	14	14
Mozambique Namibia	0	0	0	0	0	0	0	0	0	0
	6	8	9	9	10	10	10	10	10	10
Nigeria Reunion	44	44	44	45	46	46	46	87	87	87
Rwanda	1	1	1	45 1	46 1	46 1	46	87 1	87	87
	25	25	25	25	25	25	25	25	25	25
Senegal	25	25	25 34							
Sierra Leone South Africa	246	246	34 246	34 251	34 256	34 260	34 265	34 265	34 265	34 265
South Africa Sudan	246 199	246 199	246 199	251 199	256 199	260 199	265 199	265 199	265 199	265 199
Sudan Tanzania	199 66	199	199 70							
i anzania Uganda	66 16	56 36	70 54	70 65	70 65	70 76	70 96	70 96	70 96	70 96
Zambia	43	36 43	54 43	43	43	76 43	96 43	96 43	96 43	96 43
Zimbabwe	100	100	100	100	100	100	100	100	100	100
Asia	16 265	18 548	21 214	24 022	30 332	33 630	37 563	41 778	49 590	56 917
Bangladesh	3	3	4	5	5	5	5	5	5	5
Cambodia	34	26	34	32	30	50	51	51	42	42
China	4 617	6 089	6 653	7 977	9 269	11 234	13 235	16 537	23 583	29 753
Chinese Taipei	396	396	396	395	395	395	397	393	400	408
India	3 929	4 180	5 030	5 478	8 895	9 417	10 137	10 226	10 532	10 592
Indonesia	1 970	1 701	1729	1734	1 775	1849	1875	1 884	1896	1 912
Japan	1 475	1 514	1630	1 901	2 213	2 608	3 033	3 506	4 099	4 592
Kazakhstan	1 473	0	0	0	0	1	1	2	8	16
Korea Rep	197	192	601	729	1745	2 348	2 387	2 543	2 140	2 400
Lao PDR	137	40	40	40	40	40	105	105	105	105
Malaysia	768	1 045	1 431	1 555	1 526	800	810	883	891	900
Myanmar	45	49	52	48	49	52	57	59	59	59
Nepal	7	7	7	7	7	7	7	7	6	6
Pakistan	263	269	, 325	333	, 374	374	433	433	433	433
Philippines	124	131	143	233	259	276	341	393	513	827
Singapore	128	160	183	205	210	211	218	218	218	218
Sri Lanka	12	13	26	26	30	40	51	54	54	59
Thailand	2 175	2 610	2 796	3 165	3 322	3 728	4 037	4 097	4 222	4 222
Viet Nam	125	125	136	161	188	195	384	383	384	367
C America + Carib	1 660	1 772	1 953	2 075	2 433	2 529	2 656	2 939	3 047	3 047
Aruba	1 000	1772	1 933	2 0/3	2 433	2 329	2 030	2 939	2	2
Belize	28	28	28	28	44	52	52	42	42	42
Costa Rica	28 34	28 38	28 36	28 37	44	52 47	60	42 79	42 80	42 80
Cuba	54 519	38 470	499	530	43 495	532	554	79 842	951	951
Dominican Rep	16	470 16	499 16	530 17	495 47	532 47	554 47	842 47	951 47	951 47
El Salvador	259	270	305	202	259	270	305	305	300	300
Guadeloupe	259 31	270 31	305 31	202 31	259 31	270 31	305 35	305 35	35	35
Guadeloupe Guatemala	473	598	714	873	1 0 5 6	1 091	1 103	1 036	1 036	1 0 3 6
Honduras	106	598 124	714 124	873 161	210	210	210	221	221	221
	32	32	32		32			32	32	
Jamaica Martiniquo	32 2		32 2	32 3	32	32 3	32 39	32 39	32 39	32 30
Martinique		2 17.4			3 177					39 330
Nicaragua Panama	134	134	134	134		177 zz	179 77	220	220	220
Panama Puerto Rico	28	30	30	27	32	33	33 4	33 4	33 7	33 7
St Lucia					2 0	2 0	0	0	0	0
Eurasia	1 340	1 406	1 628	1 679	1 767	1887	2 005	2 201	2 519	3 059
Azerbaijan		37	37	38	38	43	45	45	45	45
Russian Fed	1 197	1 197	1 370	1 370	1 370	1 373	1 373	1 373	1 373	1 373
Turkey	142	172	221	271	359	472	587	784	1 101	1 641
Europe	30 066	31 404	33 095	34 493	35 520	36 948	39 781	40 921	41 470	41 846
Albania						1	1	1	1	1

Bioenergy Bioénergie Bioenergía

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
A	_	_	_	_	5	_	_	_	_	_
Andorra Austria	5 1 672	5 1 507	5 1 411	5 1 396	1 393	5 1 290	5 1 271	5 1 249	5 1 251	5 1 251
Belarus	19	35	35	35	40	41	48	53	1231	1231
Belgium	986	965	913	943	923	912	887	906	922	931
Bosnia Herzg	300	303	313	343	1	1	1	3	3	3
Bulgaria	14	34	40	54	57	52	69	57	48	48
Croatia	19	24	25	53	63	87	115	127	135	145
Cyprus	9	10	10	10	10	10	13	13	13	13
Czechia	653	690	745	771	773	802	782	830	846	846
Denmark	1 376	1 185	1 248	1 243	1 305	1 791	1 774	1 791	1 785	1 778
Estonia	167	261	278	281	281	281	259	273	296	249
Faroe Islands			4.077	1.007		0.070	0.070	0.007	0	0
Finland	1868	1 952	1 977	1 987	2 009	2 230	2 230	2 227	2 706	2 790
France Germany	1 050 7 471	1 187 7 964	1 242 8 202	1 306 8 429	1 447 8 660	1 496 8 982	1 733 9 662	1 818 9 994	1 846 10 344	1 939 10 449
Greece	45	7 904 46	47	51	58	64	82	9 994	97	10 449
Hungary	331	328	549	519	427	491	513	504	509	509
Ireland	57	66	70	70	72	103	103	107	107	107
Italy	3 178	3 344	3 359	3 367	3 439	3 450	3 491	3 454	3 439	3 439
Latvia	66	108	121	126	143	154	134	158	156	171
Lithuania	53	69	76	76	79	87	111	112	133	131
Luxembourg	20	23	23	24	25	36	36	56	56	56
Malta	3	3	3	3	5	5	5	5	5	5
Moldova Rep	0	2	3	3	3	6	6	6	7	6
Netherlands	716	769	752	782 4	769 5	772 7	827 8	831 10	870	865 10
North Macedonia Norway	140	140	140	140	5 87	7 87	87	81	10 81	10 81
Poland	583	735	816	961	974	968	1004	1 010	1 0 4 5	1 0 4 5
Portugal	568	551	561	577	587	582	648	702	715	741
Romania	35	46	94	118	123	140	141	139	165	164
Serbia	4	4	5	5	10	13	17	28	31	31
Slovakia	213	214	237	242	253	246	243	226	225	225
Slovenia	59	59	62	63	60	62	60	60	67	59
Spain	981	1 013	1 032	1 035	1 0 3 7	1 0 4 5	1 057	1 112	1 264	1 278
Sweden	4 348	4 013	4 483	4 716	4 850	4 822	5 021	5 299	4 462	4 462
Switzerland	232	232	229	240	241	242	242	241	245	245
UK Ukraine	3 117 13	3 791 31	4 254 50	4 808 53	5 251 60	5 514 73	6 997 98	7 165 180	7 243 212	7 259 275
European Union (27)	26 615	27 240	28 445	29 279	29 898	31 038	32 391	33 312	33 672	33 969
Middle East	67	72	79	100	107	107	107	107	105	105
Iran IR	7	7	11	11	11	11	11	11	11	11
Israel Jordan	10 4	14 4	17 4	28 13	28 13	28 13	28 13	28 13	26 13	26 13
Lebanon	2	2	2	2	9	9	9	9	9	9
Palestine	_	-	_	-	J	0	Ö	Ö	Ö	Ö
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 Yemen		1	1	1	1	1	1	1	1	1 0
N America	13 777	14 947	15 628	16 309	16 470	16 654	16 536	15 690	15 704	17 054
Canada	2 013	2 041	2 497	2 473	2 540	2 642	2 654	2 410	2 416	2 416
Mexico	444	515	606	722	882	1 027	1 109	1 014	1 016	1064
USA	11 321	12 392	12 526	13 115	13 049	12 985	12 774	12 267	12 271	13 574
Oceania	1 009	1 001	1 012	1 015	1 050	1 066	1 066	1 066	1 078	1 086
Australia	827	817	824	826	864	864	864	864	875	876
Fiji	42	42	42	42	42	54	54	54	54	61
New Caledon	0	0	0	0	0	0	0	0	0	0
New Zealand	120	120	124	125	122	126	126	126	126	126
Papua N Guin	16	18	18	18	18	18	18	18	18	18
Samoa									1	1
Solomon Is Vanuatu	1 3	1 3								
S America	11 827	14 134	14 635	15 196	16 067	16 570	16 857	17 500	17 774	18 473
Argentina	249	256	244	252	203	248	250	298	310	288
Bolivia	85	85	126	134	142	142	160	174	185	200
Brazil	9 922	11 601	12 343	13 311	14 187	14 574	14 819	15 357	15 650	16 300
Chile	859	1 267	926	466	463	466	467	502	452	438
Colombia	182	187	215	237	257	310	320 152	320	329 152	397 157
Ecuador Fr Guiana	101 2	101 2	144 2	144 2	146 2	152 2	152 2	152 5	152 5	153 5
Fr Guiana Guyana	2 51	2 51	2 51	2 51	2 42	2 42	2 42	5 42	5 42	5 42
Paraguay	0	39	39	39	39	39	39	22	22	22
Peru	131	131	131	133	160	170	174	195	195	195
Suriname		-		2	2	2	2	2	2	2
Uruguay	243	413	415	424	424	424	430	431	431	431

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

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	61 998	68 517	73 246	78 246	86 224	91 221	97 365	102 055	109 878	119 213
Africa	1 177	1 250	1 350	1 437	1 464	1 538	1 643	1 684	1 684	1 729
Angola			51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e
Burundi	4 e	4 o	4 e	4 e	4 e	4 e	4 e	4 e	4 e	4 e
Chad	2 o	2 o	2 o	2 o	2 o	2 o	2 0	2 o	2 o	2 e
Congo DR	0 e	0 e	0 e	0 e	0 e	2 e	3 e	3 e	3 e	3 e
Congo Rep	12 e	12 e	12 e	12 e	12 e	12 e				
Egypt	67	67	67	67	67	67	67	67	67 e	67 e
Eswatini	123	123	106	106	106 e	106 e	106 e	106 e	106 e	106 e
Ethiopia Ghana	20 7 e	71 7 e	71 8 e	119 8 e	145 8 e	205 8 e	290 8 e	290 e 8 e	290 8 e	335 8 e
Kenya	7 e 67 e	7 e 67 e	67 e	ое 85 е	85 e	85 e	85 е	85 e	85 е	85 e
Madagascar	0 0	0 o	0 o	0 0	0 0	0 e	0 e	0 e	0 e	0 e
Malawi	12 e	12 e	12 e	12 e	12 e	12 e				
Mali	32 e	32 o	40 e	40 e	40 e	40 u	40 e	40 e	40 e	40 e
Mauritius	77 o	77 o	77 o	87 o	87 o	87 o	87 o	87 e	87 e	87 e
Mozambique	14 e	14 e	14 e	14 e	14 e	14 e				
Namibia	0	0	0	0	0 e	0 e	0 e	0	0 e	0 e
Nigeria	6 u	8 u	9 u	9 u	10 u	10 u	10 u	10 e	10 e	10 e
Reunion	42 e	42 e	42 e	83 u	83 e	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				
Sierra Leone	242	2.42	34 e	34 e	34 e	34 e	34 e	34 e	34 e	34 e
South Africa	242 e 199 u	242 e 199 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e 199 u
Sudan Tanzania	199 u 66 o	199 e 66 o	199 e 70 o	199 e 70 o	199 e 70 o	199 e 70 e	199 e 70 e	199 e 70 e	199 e 70 e	199 u 70 e
Uganda	16 e	36 e	70 0 54 e	65 e	65 e	76 e	70 е 96 е	70 e 96 e	70 е 96 е	96 e
Zambia	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				
Asia	15 756	17 898	20 012	22 689	28 833	31 914	35 605	39 579	46 926	53 729
Bangladesh				0 0	0 о	0 о	0 0	0 о	0 о	0 о
Cambodia	34 o	26 o	34 o	31 o	29 o	49 o	49 o	49 e	40 e	40 e
China	4 479	5 896	6 343	7 646	8 920	10 780	12 605	15 738	22 298 o	28 042 o
Chinese Taipei	396 o	396 o	396 o	393 o	393 o	393 o	395 o	391 o	399 o	407 o
India Indonesia	3 925 o 1 961 o	4 175 o 1 683 o	5 023 o 1 709 o	5 469 o 1 679 o	8 885 o 1 711 o	9 405 o 1748 o	10 124 o 1 766 e	10 212 o 1 771 e	10 518 o 1 775 e	10 578 o 1 775 e
Japan	1 468	1504	1 615	1878	2 179	2 561	2 974	3 436	4 022 o	4 507 o
Korea Rep	89	93	124	255	1 256	1853	1899	2 056	1730 e	1940 e
Lao PDR	03	40 o	40 o	40 o	40 o	40 e	105 o	105 e	105 e	105 e
Malaysia	755 o	1 030 o	1 413 o	1535 o	1 468 o	738 o	740 e	780 e	780 e	780 e
Maldives								0 0	0 е	0 е
Myanmar	43 e	47 e	51 e	46 e	48 e	51 e	55 e	57 e	57 e	57 e
Nepal	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	6 e	6 e
Pakistan	254 e	260 e	316 e	324 e	365 e	365 e	423 e	423 e	423 o	423 e
Philippines	100 o	100 o	112 o	202 o	219 o	235 o	287 o	339 o	457 o	764 o
Singapore	128 o	160 e	183 e	205 e	210 e	211 e	218 e	218 e	218 o	218 o
Sri Lanka	12 o	13 o	26 o	26 o	30 o	40 o	51 o	54 e	54 e	59 e
Thailand Viet Nam	1 981 o 125 e	2 345 o 125 e	2 485 o 136 e	2 793 o 161 e	2 887 o 186 e	3 253 o 186 e	3 532 o 375 e	3 567 o 374 e	3 668 o 375 e	3 668 e 358 e
C America + Carib	1 648	1 758	1 940	2 059	2 402	2 494	2 614	2 896	3 000	3 002
Aruba	22	00	2	2	2	2	2	2	2 e	2 e
Belize	28	28	28	28	44	52 u	52 e	42	42 e	42 e
Costa Rica Cuba	30 519	34 470	34 498	34 530 o	40 495 o	45 532 e	57 o 554 e	76 o 841 e	76 e 951 e	76 e 951 e
Dominican Rep	15 e	470 15 e	496 15 e	15 e	493 0 45 e	45 e	45 e	45 e	45 e	45 e
El Salvador	252	263	298	195	252	263	298	298	294 o	294 e
Guadeloupe	31	31	31	31	31	31 u	31 e	31 e	31 e	31 e
Guatemala	473	597	713	869	1053 o	1084 o	1096 o	1029 o	1029 o	1030 o
Honduras	105 o	123 o	123 o	161 o	206 o	206 o	206 o	218 o	218 o	218 o
Jamaica	32	32	32	32	32	32	32 e	32 e	32 e	32 e
Martinique	2	2	2	2	2	2	38	38	38	38 e
Nicaragua	134 o	134 o	134 o	134 o	177	177	177 o	218 o	218 o	218 e
Panama	28	30	30	27	24	25 o	25 e	25 e	25 e	25 o
Puerto Rico St Lucia					0 e	0 e	2 o 0 e	2 o 0 e	2 o 0 e	2 o 0 e
Eurasia	1 207	1244	1 417	1 419	1 462	1 498	1 547	1 633	1 737	2 038
Azorbajian		77	77	77	77 0	40	44 0	44.5	4.4	44.5
Azerbaijan Russian Fed	1197 e	37 1 197 e	37 1370 e	37 1 370 e	37 e 1370 e	42 1 373 e	44 o 1373 e	44 e 1 373 e	44 1373 e	44 e 1 373 e
Russian Fed Turkey	1 197 e 10	1 197 e 10	1370 e 10	1370 e 12	1370 e 55	13/3 e 83	1373 e 130	1 3/3 e 216	13/3 e 320 o	13/3 e 622 o
Europe	18 530	19 329	20 466	21 351	21 969	22 957	25 097	25 501	25 551	25 706
Albania						1 u	1 u	1 u	1 e	1 e
Andorra	5 o	5 o	5 0	5 0	5 0	5 0	5 0	5 0	5 e	5 e
Austria	1393 e	1307 e	1 221 e	1202 e	1 188 e	1 108 e	1094 o	1085 e	1086 e	1086 e

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

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Belarus	13	13	13	13	13	13	16	16	86	86 e
Belgium	790	764	681	716	691 e	685	652	665 o	700	709 e
Bosnia Herzg							0	1	1 o	1 e
Bulgaria	14	30	30	34	19	23	33 e	24 e	15	15 o
Croatia	7	7	8	25	26	42	65	76	80	90 o
Czechia	353 e	329 e	378 e	403 e	404 e	430 e	413 e	462 e	480 e	480 e
Denmark	1 296 e	1085 e	1152 e	1139 e	1198 e	1683 e	1666 e	1683 e	1666 e	1659 e
Estonia	163	255	270	270	270	270 e	250	265	285 o	238 o
Finland	1822 e	1864 e	1877 e	1885 e	1895 e	2 114 e	2 114 o	2 111	2 590	2 674 o
France	794	889	900	920	1 034	1052	1 2 6 8	1 318	1299 e	1362 e
Germany	2 273 o	2 553 o	2 533 o	2 554 e 2 e	2 579 e 2 e	2 605 e 3 e	2 648 e 12	2 682 e 13	2 648 e 14	2 607 e 14 o
Greece Hungary	278	265	486	2 e 447	351	409	437	425	424	424 e
Ireland	13 e	13 e	16 e	16 e	16 e	40 <i>3</i>	437 47 e	48	48 o	48 e
Italy	915	1024	1 033	1 031	1094	1 092	1145	1 124	1 128	1128 e
Latvia	23	55	63	66	81	94	73	97 e	96 e	111 o
Lithuania	38	53	56	55	54	62	76	77	97	94 o
Luxembourg	10	13	12	13	13	23	24 e	44 e	44 o	44 o
Netherlands North Macedonia	497	539	515	543	548	551 e	622 1 o	628 2 o	661 2 e	650 o 2 e
Norway	123	123	123	123	77	77 e	77 e	74 u	74 e	74 e
Poland	455	582	629	745	749	738	778	777	784	784 e
Portugal	517	496	495	511	519	512	577	630	644	666 e
Romania	30	35	79	104	107	119	119	119	136	135 o
Serbia								2	2 e	2 e
Slovakia	172	179	159	151	160	155	154	144 e	143 e	143 e
Slovenia	30	30	30	30	30	33	32	34	35	27 o
Spain	748	770	790	789	789	793	793	839 o	989	1003 o
Sweden	3 815 e	3 460 e	3 959 e	4 138 e	4 333 e	4 273 e	4 484 e	4 402 e	3 565 e	3 565 e
Switzerland	199	199	197	211	212	212 e	212 o	211 o	211 o	211 e
UK	1742	2 377	2 723	3 180	3 477	3 695	5 161	5 333	5 405 o	5 418 o
Ukraine	6	17	35	35	39	39 o	52 o	87	109	152 u
European Union (27)	16 519	16 669	17 440	17 859	18 220	18 989	19 683	19 923	19 809	19 908
Middle East	33	33	33	33	33	33	33	33	30	30
Israel	3	3	3 e	3 e	3 e	3 e	3 e	3 e	0	
Qatar Yemen	30 u	30 u	30 u	30 u	30 u	30 u	30 e	30 e	30 e	30 e 0 o
N America	11 318	12 369	12 927	13 632	13 739	13 760	13 562	12 924	12 923	14 264
Canada	1897	1 925	2 381	2 357	2 424	2 503	2 515 e	2 271 e	2 271 e	2 271 e
Mexico	406	478	570	686	797 e	854 o	889 o	812 e	813 o	853 o
USA	9 015 o	9 966 o	9 977 o	10 590 o	10 519 o	10 404 o	10 159 o	9 841 o	9 840 o	11 140 o
Oceania	729	729	730	730	806	823	823	823	827	835
Australia	597	597	598	598	674 o	674 e	674 e	674 e	678 e	678 e
Fiji	42 u	42 u	42 u	42 u	42 u	54 u	54 u	54 e	54 e	61 e
New Zealand	75	75	75	75	75	80	80	80	80 o	80 e
Papua N Guin	15 u	15 u	15 u	15 u	15 u	15 u	15 u	15 e	15 e	15 e
Solomon Is	1 e	1 e	1 e	1 u	1 u	1 u	1 u	1 e	1 e	1 e
S America	11 601	13 907	14 372	14 897	15 517	16 205	16 440	16 983	17 199	17 879
Argentina	233 e	240 e	227 e	235 e	187 e	227 e	228 e	254 e	255 e	219 e
Bolivia	85 o	85 o	126 o	134 o	142 o	142 o	160 o	169 o	180 o	195 e
Brazil	9 746	11 424	12 145	13 088 o	13 722 e	14 307 o	14 512 o	14 981 o	15 228 o	15 883 o
Chile	832 e	1240 e	884 e	417 e	410 e	410 e	410 e	442 o	396 o	375 o
Colombia	182 u	187 u	215 u	237 u	253 u	306 u	316 u	316 e	319 e	387 e
Ecuador	101 o	101 o	144 o	144 o	144 o	144 e	144 e	144 o	144 o	144 o
Fr Guiana	2 0	2 0	2 0	2 0	2 0	2 0	2 0	5 0	5 e	5 o
Guyana	51	51	51	51	42	42	42	42	42 e	42 e
Paraguay	100	39	39	39	39 157 o	39 167 o	39 e	20 e	20 e	20 e
Peru	126 o	126 o	126 o	126 o	153 o	163 o	163 o	185 o	185 e	185 o
Suriname Uruguay	242	412	410	422	422	2 422	2 e	2 e	2 e	2 e
oruguay	242	412	412	422	422	422	422	423 e	423 o	423 e

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CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	12 989	14 704	15 702	16 810	17 705	18 303	19 103	19 760	20 161	20 649
Africa	1 124	1 195	1 304	1 390	1 416	1 488	1 568	1609	1 609	1 654
Angola			51 e	51 e	51 e	51 e	51 e	51 e	51 e	51 e
Burundi	4 e 2 o	4 0	4 e	4 e 2 o	4 e	4 e	4 e	4 e	4 e	4 e
Chad Congo Rep	2 0 5 e	2 o 5 e	2 o 5 e	2 0 5 e	2 o 5 e	2 o 5 e	2 o 5 e	2 o 5 e	2 o 5 e	2 e 5 e
Egypt	67	67	67	67	67	67	67	67	67 e	67 e
Eswatini	106	106	106	106	106 e	106 e	106 e	106 e	106 e	106 e
Ethiopia	20	71	71	119	145	205	265	265	265	310
Kenya Malawi	67 e 12 e	67 e 12 e	67 e 12 e	85 e 12 e	85 e 12 e	85 e 12 e	85 e 12 e	85 e 12 e	85 e 12 e	85 e 12 e
Mali	32 e	32 o	40 e	40 e	40 e	40 u	40 e	40 e	40 e	40 e
Mauritius	77 o	77 o	77 o	87 o	87 o	87 o	87 o	87 e	87 e	87 e
Mozambique	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e	14 e
Nigeria Reunion	5 u 42 e	5 u 42 e	5 u 42 e	5 u 42 e	5 u 42 e	5 u 42 e	5 u 42 e	5 e 83 u	5 e 83 e	5 e 83 e
Rwanda	42 e 1 e	42 e	42 e	42 e	42 e	42 e 1 e	42 e	1 e	1 e	1 e
Senegal	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e	25 e
Sierra Leone			32 u	32 e	32 e	32 e	32 e	32 e	32 e	32 e
South Africa	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e	242 e
Sudan Tanzania	199 u 46 o	199 e 46 o	199 e 46 o	199 e 46 o	199 e 46 o	199 e 46 e	199 e 46 e	199 e 46 e	199 e 46 e	199 u 46 e
Uganda	16 e	36 e	54 e	65 e	65 e	76 e	96 e	96 e	96 e	96 e
Zambia	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e	43 e
Zimbabwe	100	100	100	100 e	100 e	100 e	100 e	100 e	100 e	100 e
Asia	735	787	854	940	977	997	1 350	1377	1 457	1 617
Cambodia Indonesia	16 o 200 o	16 o 208 o	16 o 219 o	16 o 219 o	16 o 219 o	36 o 219 o	36 o 219 o	36 e 219 e	27 e 219 e	27 e 219 e
Lao PDR	200 0	40 o	40 o	40 o	40 o	40 e	105 o	105 e	105 e	105 e
Myanmar	43 e	47 e	51 e	46 e	48 e	47 e	52 e	54 e	54 e	54 e
Nepal	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e	6 e
Pakistan Philippines	254 e 92 o	254 e 92 o	306 e 92 o	314 e 149 o	314 e 161 o	314 e 161 o	372 o 208 o	372 o 233 o	372 o 321 o	372 e 498 o
Viet Nam	125 e	125 e	125 e	150 e	174 e	174 e	353 u	352 e	353 e	336 e
C America + Carib	1 638	1746	1 925	2 010	2 308	2 395	2 515	2 795	2 900	2 901
Belize	28	28	28	28	44	52 u	52 e	42	42 e	42 e
Costa Rica Cuba	30 519	34 470	34 498	34 529	40 494	40 531 e	53 o 553 e	71 o 841	71 o 950	71 o 950 o
Dominican Rep	14 o	14 o	14 o	14 o	44 o	44 o	44 e	44 e	44 e	44 e
El Salvador	252	263	298	195	252	263	298	298	294 o	294 e
Guadeloupe	30	30	30	30	30	30	30 e	30 e	30 e	30 e
Guatemala Honduras	473 99 o	594 118 o	711 118 o	867 122 o	1 050 o 122 o	1 081 o 122 o	1 094 o 122 o	1 026 o 132 o	1 026 o 132 o	1 027 o 132 o
Jamaica	32	32	32	32	32	32	32 e	32 e	32 e	32 e
Martinique							36	36	36	36 e
Puerto Rico							2 0	2 0	2 o	2 o
Europe				2	2	2	2	2	2	2
Portugal				2	2	2	2	2	2	2 e
European Union (27)	72	72	72	74	74	74	110	151	151	151
N America	323	424	527	660	771	827	865	791	791	831
Mexico	323	424	527	660	771 e	827 o	865 o	791 e	791 o	831 o
Oceania Australia	453 424	453 424	453 424	453 424	529 500 o	529 500 o	529 500 o	529 500 e	533 504 o	541 504 o
Fiji	29 u	29 u	29 u	29 u	29 u	29 u	29 u	29 e	29 e	37 e
S America	8 716	10 099	10 638	11 355	11 702	12 064	12 272	12 656	12 869	13 102
Argentina	65 e	64 e	47 e	64 e	45 e	50 e	50 e	56 o	57 e	57 e
Bolivia	85 o	85 o	126 o	134 0	142 o	142 0	160 o	169 o	180 o	195 e
Brazil Colombia	8 095 182 u	9 435 187 u	9 881 215 u	10 549 237 u	10 874 253 u	11 168 306 u	11 348 o 316 u	11 714 o 316 e	11 913 o 319 e	12 063 o 387 e
Ecuador	101 o	101 o	144 o	144 o	144 o	144 e	144 e	144 o	144 o	144 o
Guyana	51	51	51	51	42	42	42	42	42 e	42 e
Paraguay	100 -	39	39	39	39 157 o	39 167 o	39 e	20 e	20 e	20 e
Peru Uruguay	126 o 10	126 o 10	126 o 10	126 o 10	153 o 10	163 o 10	163 o 10	185 o 10 e	185 e 10 o	185 o 10 e
Siaguay	10	10	10	10	10	10	10	10 0	10 0	10 6

Renewable municipal waste Déchets municipaux renouvelables Residuos municipales renovables

CAP (MW)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	6 899	7 375	8 513	8 728	9 674	10 496	11 410	12 655	14 212	17 035	19 520
Africa								25	25	25	25
Ethiopia								25	25 e	25	25
Asia	2 233	2 605	3 183	3 446	3 995	4 535	5 329	6 383	7 840	10 523	12 974
China Chinese Taipei India Indonesia Japan Korea Rep Malaysia Maldives Myanmar	1131 312 o 83 o 13 o 503 41 9	1144 315 o 94 o 13 o 838 43 9	1700 315 o 105 o 13 o 852 38 9	1893 315 o 124 o 18 o 876 50 9	2 3 4 2 3 1 5 0 1 3 7 0 8 0 9 0 0 9 5 7 0	2 870 315 o 139 o 8 o 919 77 7 o	3 640 315 o 146 o 8 o 935 54 7 o	4 575 316 o 159 o 8 o 958 64 7 o	6 009 316 o 165 o 8 o 975 64 7 o 0 o 0 e	8 682 o 316 o 188 o 8 e 963 o 54 e 7 o 0 e 0 e	11 022 0 316 0 217 0 8 e 1 033 0 60 e 7 0 0 e 0 e
Singapore Sri Lanka Thailand	128 o 13 o	128 o 21 o	128 o 24 o	128 o 33 o	128 o 66 o	128 o 73 o	128 o 96 o	128 o 159 o	128 o 157 o	128 o 167 o	128 o 5 u 167 e
Viet Nam						1 u	1 e	11 e	11 e	11 e	11 e
C America + Carib	2	2	2	4	4	4	4	4	4	4	4
Aruba Martinique	2	2	2	2	2 2	2	2	2	2 2	2 e 2	2 e 2 e
Eurasia			37	37	37	37	42	45	46	50	61
Azerbaijan Turkey			37	37	37	37 e	42	44 o 1	44 e 2	44 6 o	44 e 17 o
Europe	3 408	3 492	3 998	3 947	4 296	4 576	4 692	4 851	4 944	5 081	5 089
Albania Andorra Austria Belgium Czechia Denmark Estonia Finland France Germany Hungary Ireland Italy Lithuania Luxembourg Netherlands Norway Poland Portugal Slovakia Spain Sweden Switzerland UK	5 0 242 120 22 147 76 e 422 743 19 371 10 325 44 38 3 112 286 175 251	5 o 288 112 23 140 95 e 435 715 18 8 377 10 325 44 38 3 112 293 199 257	5 o 290 124 23 166 105 113 e 442 930 18 8 418 10 10 325 44 38 3 117 340 199 273	5 o 262 124 23 163 105 126 e 440 944 19 11 413 10 9 325 44 39 6 117 230 197 340	5 0 263 124 23 166 105 134 e 394 962 25 11 415 10 9 325 44 8 40 6 117 438 211	5 o 271 125 28 166 105 148 e 424 979 29 11 409 15 9 325 50 22 42 10 117 564 212 514	1 u 5 o 271 125 28 e 182 105 e 148 e 429 1004 23 41 408 17 9 325 e 50 e 30 41 6 121 567 212 e 545	1 u 5 o 270 270 125 28 o 181 85 148 o 441 1063 23 41 412 14 9 e 400 50 e 43 41 6 121 566 212 o 568	1 u 5 o 272 o 272 126 28 182 85 148 444 1084 23 41 396 14 9 e 389 47 45 41 6 e 121 o 568 211 o 661	1 e 5 e 270 136 28 e 181 85 o 148 452 1051 27 41 o 402 34 9 o 390 47 e 50 41 6 e 121 623 211 o 723 o	1 e 5 e 270 e 135 o 28 e 176 o 83 o 197 o 452 e 1010 o 27 e 41 o 402 e 36 9 o 373 o 47 e 50 e 41 o 62 a e 134 o 623 e 211 e 733 o
European Union (27)	2 936	2 990	3 480	3 364	3 573	3 797	3 880	4 017	4 021	4 096	4 094
Middle East	33	33	33	33	33	33	33	33	33	30	30
Israel Qatar	3 30 u	3 30 u	3 30 u	3 e 30 u	3 e 30 u	3 e 30 u	3 e 30 u	3 e 30 e	3 e 30 e	30 e	30 e
N America	1 223	1 244	1 260	1 260	1308	1 308	1 307	1 307	1 307	1 307	1 307
Canada USA	18 1 205 o	39 1 205 o	39 1 222 o	39 1 222 o	39 1 270 o	39 1 270 o	38 1 270 o	38 e 1 270 o	38 e 1270 o	38 e 1270 o	38 e 1270 o
Oceania											0
Australia											0 о
S America						3	3	5	13	14	30
Brazil						3 о	3 о	5 о	13 o	14 o	30 o

Other solid biofuels Autres biocarburants solides Otros biocombustibles sólidos

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	41 633	45 301	48 817	51 762	58 023	61 508	65 607	68 084	72 681	79 043
Africa	53	55	46	46	47	49	50	50	50	50
Congo DR	0 e	0 e	0 e	0 e	0 e	2 e	3 e	3 e	3 e	3 e
Congo Rep	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e	7 e
Eswatini	17	17								
Ghana	7 e	7 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e	8 e
Madagascar	0 о	0 о	0 о	0 о	0 о	0 е	0 e	0 e	0 e	0 e
Namibia	0	0	0	0	0 e	0 е	0 e	0	0 e	0 e
Nigeria	1 u	3 u	4 u	4 u	5 u	5 u	5 u	6 e	6 e	6 e
Sierra Leone			2 e	2 e	2 e	2 e	2 e	2 e	2 e	2 e
Tanzania Zimbabwe	20 o 1 e	20 o 1 e	24 o 1 e	24 o 1 e	24 o 1 e	24 e 1 e	24 e 1 e	24 e 1 e	24 e 1 e	24 e 1 e
Asia	12 416	13 929	15 712	17 754	23 321	25 588	27 871	30 362	34 946	39 137
Bangladesh				0 о	0 о	0 о	0 о	0 о	0 о	0 о
Cambodia	18 o	10 o	18 o	15 o	13 o	13 o	13 o	13 e	13 e	13 e
China	3 336	4 196	4 450	5 304	6 050	7 140	8 030	9 729	13 617 o	17 O21 o
Chinese Taipei	81 o	81 o	81 o	79 o	79 o	79 o	79 o	75 o	83 o	91 o
India	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	10 361 o
Indonesia	1748 o	1462 o	1472 o	1452 o	1484 o	1522 o	1540 e	1545 e	1548 e	1548 e
Japan	630	652	739	978	1 260	1 626	2 016	2 461	3 059 o	3 474 o
Korea Rep	46	55	74	160	1 179	1 799	1 835	1 992	1676 e	1880 e
Malaysia	746 o	1 022 o	1404 o	1528 o	1462 o	732 o	734 e	774 e	774 e	774 e
Myanmar	0 e	0 e	0 e	0 e	0 e	3 e	3 e	3 e	3 e	3 e
Nepal	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	F1	F1
Pakistan	0.0	6 e	10 e	10 e	51 e	51 e	51 e	51 e	51 o	51 e
Philippines	8 0	8 o 32 e	20 o 55 e	53 o 77 e	58 o 82 e	74 o 83 e	80 o 90 e	107 o 90 e	136 o 90 o	266 o 90 o
Singapore Sri Lanka	12 o	13 o	26 o	26 o	30 o	40 o	51 o	54 e	54 e	54 e
Thailand	1960	2 321	2 452	2 727	2 815	3 157 o	3 373 o	3 410 o	3 501 o	3 501 e
Viet Nam	1300	2 321	11 u	11 u	11 u	11 u	11 u	11 e	11 e	11 e
C America + Carib	8	10	11	45	90	95	95	96	96	96
Costa Rica						5	5	5	5 e	5 e
Cuba			1	1 o	1 o	1 o	1 e	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 u	1 e	1 e	1 e	1 e
Guatemala		3	3	3	3	3	3 о	3 о	3 о	3 о
Honduras St Lucia	6 o	6 o	6 o	39 o	84 o O e	84 o 0 e	84 o 0 e	86 o O e	86 o 0 e	86 o O e
Eurasia	1 207	1 207	1 380	1 382	1 425	1 456	1 501	1 587	1 687	1 978
Russian Fed Turkey	1 197 e 10	1 197 e 10	1 370 e 10	1 370 e 12	1370 e 55	1 373 e 83	1 373 e 129	1 373 e 214	1 373 e 314 o	1373 e 605 o
Europe	15 038	15 331	16 519	17 053	17 391	18 263	20 244	20 555	20 468	20 615
Austria	1105 e	1 017 e	959 e	939 e	917 e	838 e	824 o	813 e	816 e	816 e
Belarus	13	13	13	13	13	13	16	16	86	86 e
Belgium	678	640	558	591	566 e	559	526	539 o	564	574 e
Bosnia Herzg Bulgaria	14	30	30	34	19	23	0 33 e	1 24 e	1 o 15	1 e 15 o
Croatia	7	7	8	25	26	42	65	76	80	90 o
Czechia	330 e	и 306 е	355 e	380 e	376 e	402 e	385 e	434 e	452 e	452 e
Denmark	1 156 e	919 e	989 e	973 e	1032 e	1 501 e	1 485 e	1501 e	1 485 e	1 483 e
Estonia	163	150	165	165	165	165	165	180	200	155 o
Finland	1 727	1 751	1 751	1 751	1747	1966	1966	1 963	2 442	2 477 o
France	360	446	461	526	610	623	827	874	847 e	910 e
Germany	1558 o	1623 o	1589 o	1592 e	1600 e	1601 e	1585 e	1598 e	1597 e	1597 e
Greece				2 e	2 e	3 e	12	13	14	14 o
Hungary	260	247	467	422	322	386	414	402	397	397 e
Ireland	5 e	5 e	5 e	5 e	5 e	5 e	5 e	7	7	7 e
Italy	538	606	620	616	685	684	733	728	726	726 o
Latvia	23	55	63	66	81	94	73	97 e	96 e	111 o
Luxambourg	38	43	46	45	39	45 15	62 15	63 75	63	58 o
Luxembourg Netherlands	172	4 215	4 190	4 218	4 223	15 226	15 222	35 239	35 o 271	35 o 277 o
North Macedonia	1/2	213	190	210	223	220	222 1 o	239 2 o	2/1 2 e	2// 0 2 e
Norway	79	79	79	79	27	27 e	27 e	2 0 27 u	2 e 27 e	2 e 27 e
Poland	455	582	629	737	727	709	735	732	734	734 e
Portugal	479	458	456	469	475	469	534	587	601	623 e
Romania	30	35	79	104	107	119	119	119	136	135 o
Serbia						***		2	2 e	2 e
Slovakia	169	176	153	145	150	149	148	138	137	137 e
Slovenia	30	30	30	30	30	33	32	34	35	27 o
Spain	636	653	673	672	672	672	672	718	868	869 o
Sweden	3 522 e	3 120 e	3 729 e	3 700 e	3769 e	3 706 e	3 918 e	3 834 e	2942 e	2 942 e
UK	1 485	2 104	2 383	2 715	2 963	3 150	4 593	4 673	4 682 o	4 685 o

Other solid biofuels Autres biocarburants solides Otros biocombustibles sólidos

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
6	17	35	35	39	39 o	52 o	87	109	152 u
13 458	13 118	14 004	14 211	14 349	15 034	15 555	15 750	15 561	15 662
									0
									0 о
9 751	10 684	11 140	11 664	11 660	11 626	11 389	10 825	10 825	12 126
1 858 83	1 886 54	2 342 43 8 755	2 318 26	2 385 26	2 465 27	2 477 23 o	2 233 21 e	2 233 e 22 o	2 233 e 23 o 9 871 o
275	275	276	276	276	293	293	293	293	293
173 12 u 75 15 u 1 e	173 12 u 75 15 u 1 e	174 12 u 75 15 u 1 e	174 12 u 75 15 u 1 u	174 12 u 75 15 u 1 u	174 e 24 u 80 15 u 1 u	174 e 24 u 80 15 u 1 u	174 o 24 e 80 15 e 1 e	174 e 24 e 80 o 15 e 1 e	174 e 24 e 80 e 15 e 1 e
2 885	3 808	3 733	3 542	3 812	4 139	4 163	4 314	4 316	4 747
167 e 1 651 832 e 2 o	175 e 1989 1240 e 2 o	181 e 2 264 884 e 2 o	171 e 2 539 o 417 e 2 o 0 2	141 e 2 846 e 410 e 2 o 0 2	177 e 3 136 o 410 e 0 o 2 o 0 2	178 e 3 159 o 410 e 0 o 2 o 1 2 e	198 e 3 255 o 442 o 5 o 1 2 e	198 e 3 301 o 396 o 5 e 1 e 2 e	162 e 3 790 o 375 o 5 o 1 e 2 e 413 e
	6 13 458 9 751 1 858 83 7 810 275 173 12 u 75 15 u 1 e 2 885 167 e 1 651 832 e	6 17 13 458 13 118 9 751 10 684 1 858 1 886 83 54 7 810 8 744 275 275 173 173 12 u 12 u 75 75 15 u 15 u 1 e 1 e 2 885 3 808 167 e 175 e 1651 1989 832 e 1240 e 2 0 2 0	6 17 35 13 458 13 118 14 004 9 751 10 684 11 140 1 858 1886 2 342 83 54 43 7 810 8 744 8 755 275 275 276 173 173 174 12 u 12 u 12 u 75 75 75 15 u 15 u 15 u 1 e 1 e 1 e 2 885 3 808 3 733 167 e 175 e 181 e 1 651 1989 2 264 832 e 1 240 e 884 e 2 0 2 0 2 0	6 17 35 35 13 458 13 118 14 004 14 211 9 751 10 684 11 140 11 664 1 858 1 886 2 342 2 318 83 54 43 26 7 810 8 744 8 755 9 320 275 275 276 276 173 173 174 174 12 u 12 u 12 u 12 u 12 u 75 75 75 75 75 15 u 15 u 15 u 15 u 1 e 1 e 1 e 1 u 2 885 3 808 3 733 3 542 167 e 175 e 181 e 171 e 1 651 1 989 2 264 2 539 o 832 e 1 240 e 884 e 417 e 2 o 2 o 2 o 2 o 2 o 0 0 0 0	6 17 35 35 39 13 458 13 118 14 004 14 211 14 349 9 751 10 684 11 140 11 664 11 660 1 858 1 886 2 342 2 318 2 385 83 54 43 26 26 26 7 810 8 744 8 755 9 320 9 249 275 275 276 276 276 276 173 173 173 174 174 174 174 12 u 12	6 17 35 35 39 39 0 13 458 13 118 14 004 14 211 14 349 15 034 9 751 10 684 11 140 11 664 11 660 11 626 1 858 1886 2 342 2 318 2 385 2 465 83 54 43 26 26 26 27 7 810 8 744 8 755 9 320 9 249 9 134 275 275 276 276 276 276 293 173 173 174 174 174 174 174 e 12 u 12 u 12 u 12 u 12 u 12 u 24 u 75 75 75 75 75 75 75 80 15 u 1 e 1 e 1 e 1 e 1 u 1 u 1 u 2 885 3 808 3 733 3 542 3 812 4 139 167 e 175 e 181 e 171 e 141 e 177 e 1 651 1 989 2 264 2 539 0 2 846 e 3 136 0 8 32 e 1 240 e 884 e 417 e 410 e 410 e 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 0 0 0 0 0	6 17 35 35 39 39 o 52 o 13 458 13 118 14 004 14 211 14 349 15 034 15 555 9 751 10 684 11 140 11 664 11 660 11 626 11 389 1 858 1 886 2 342 2 318 2 385 2 465 2 477 83 54 43 26 26 27 23 o 7 810 8 744 8 755 9 320 9 249 9 134 8 889 275 275 276 276 276 293 293 173 173 174 174 174 174 e 174 e 12 u 12 u 12 u 12 u 24 u 24 u 75 75 75 75 75 80 80 15 u 15 u 15 u 15 u 15 u 15 u 1 e 1 e 1 e 1 u 1 u 1 u 1 u 2 885 3 808 3 733 3 542 3 812 4 139 4 163	6 17 35 35 39 39 o 52 o 87 13 458 13 118 14 004 14 211 14 349 15 034 15 555 15 750 9 751 10 684 11 140 11 664 11 660 11 626 11 389 10 825 1 858 1 886 2 342 2 318 2 385 2 465 2 477 2 233 83 54 43 26 26 27 23 o 21 e 7 810 8 744 8 755 9 320 9 249 9 134 8 889 8 571 275 275 276 276 276 293 293 293 173 173 174 174 174 174 e 175 e 15 u 15 e 1 e 1 e 1 e 1 e 1 e 1 e 1 u 1 u 1 u 1 u	6 17 35 35 39 39 o 52 o 87 109 13 458 13 118 14 004 14 211 14 349 15 034 15 555 15 750 15 561 9 751 10 684 11 140 11 664 11 660 11 626 11 389 10 825 10 825 1858 1886 2 342 2 318 2 385 2 465 2 477 2 233 2 233 e 83 54 43 26 26 27 23 o 21 e 22 o 7 810 8 744 8 755 9 320 9 249 9 134 8 889 8 571 8 570 o 275 275 276 276 293 293 293 293 173 173 174 174 174 174 e 174 e 174 o 174 e 15 u 15 e 15 e 15 u 15 u </td

Liquid biofuels Biocarburants liquides Biocarburantes líquidos

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	2 066	2 041	2 338	2 419	2 322	2 357	2 402	2 627	2 548	2 584
Africa		0	0	0	0	0	0	0	0	0
Burkina Faso Tanzania		0 u	0 u 0 u	0 u 0 e	0 e 0 e	0 e 0 e	0 e 0 e	0 e 0 e	0 e 0 e	0 e 0 e
Asia			356	361	360	359	348	348	293	329
Korea Rep			356	361	360	359	348	348	293 е	329 e
Eurasia			7	7	7	12	19	19	19	19
Turkey			7	7	7	12	19	19	19 e	19 e
Europe	1 855	1879	1 797	1 865	1 792	1 813	1 791	2 128	2 105	2 105
Austria Belgium Denmark France Germany Italy Poland Slovenia Spain Sweden	6 55 277 989 0 e	6 50 7 263 1003 0 e 1	1 51 232 990 0 e 1	3 49 1 3 232 1000 0 e 1	3 45 0 4 231 993 e 0 e 1	1 45 1 0 230 987 0 e 1	1 45 1 0 230 971 0 e 1 6 535	1 45 e 1 0 231 948 0 e 1 o 6 e	0 23 0 e 15 231 e 932 0 e 1 6 e 895 e	0 e 23 e 0 e 15 e 231 e 932 e 0 e 1 e 6 e 895 e
European Union (27)	1 855	1879	1 797	1 865	1 792	1 813	1 791	2 128	2 105	2 105
N America	204	155	155	155	155	165	236	123	123	123
USA	204	155	155	155	155 o	165	236	123	123 e	123 o
Oceania	3	3	3	3	3	3	3	3	3	3
Fiji New Caledon Solomon Is Vanuatu	0 u 0 o 3 e	0 u 0 o 3 e	0 u 0 o 0 e 3 e	0 u 0 o 0 e 3 e	0 u 0 o 0 e 3 e	0 u 0 o 0 e 3 e	0 u 0 o 0 e 3 e	0 e 0 e 0 e 3 e	0 e 0 e 0 e 3 e	0 e 0 e 0 e 3 e
S America	4	4	19	27	4	5	5	5	5	5
Brazil	4	4	19	27	4 o	5 о	5 о	5 о	5 о	5 o

Biogas Biogaz Biogás

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	13 134	13 987	15 021	15 687	16 698	17 388	18 489	19 258	20 599	21 574
Africa	10	11	11	26	35	38	43	54	55	55
Burkina Faso				1 o	1 o	1 o	1 e	1 e	1 e	1 e
Egypt				10	10	10	1 6	12 o	12 e	12 e
Gabon				1 e	1 e	1 e	1 e	12 0	1 e	12 e
Ghana				0 0	0 0	0 e	0 0	0 e	0 0	0 e
Kenya	0 e	0 е	0 е	3 e	3 e	2 e	2 e	2 e	2 e	2 e
Mauritius	2	3	3	3	3 о	3 e	3 e	3 e	3 e	3 e
Morocco	1 o	1 o	1 o	5 o	7	7	7	7	7	7 e
Nigeria					0 u	0 u	0 u	0 e	0 e	0 e
Reunion	2 o	2 o	2 o	3 о	4 o	4 e	4 o	4 e	4 e	4 e
South Africa	4 e	4 e	4 e	9 e	14 e	18 e	23 u	23 e	23 e	23 e
Tanzania	1 o	1 0	1 0	1 o	1 u	1 e	1 e	1 e	1 e	1 e
Asia	509	650	846	972	1 139	1 357	1 610	1 852	2 371	2 859
Bangladesh	3 о	3 о	4 o	4 0	5 o	5 o	5 o	5 o	5 o	5 e
Cambodia China	138	193	310	2 e 331	2 e 350	2 e 454	2 e 630	2 e 799	2 e 1285 o	2 e 1 711 o
Chinese Taipei	130	193	310	1 0	1 o	1 0	1 e	799 1 o	1 2 6 3 0	1711 O
India	4 o	6 o	7 о	10 o	10 o	13 e	14 e	14 e	14 e	14 e
Indonesia	9 0	18 o	19 o	55 o	64 e	101 e	109 e	112 o	120 e	137 e
Japan	7	10	15	23	34	47	59	70	77 o	85 o
Kazakhstan		0	0	0	0	1 o	1 o	2 e	8	16 e
Korea Rep	108	99	121	113	129	136 o	140	139	117 e	131 e
Lao PDR							0 о	0 о	0 о	0 о
Malaysia	12 o	14 o	18 o	20 o	58 o	62 o	70 o	103 e	111 e	120 e
Myanmar	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Pakistan	9 e	9 e 31 e	9 e 31 e	9 e 31 e	9 e 40 e	9 e 42 e	10 e 54 e	10 e 54 o	10 e 56 e	10 e 63 e
Philippines Sri Lanka	24 u	31 e	31 E	0 o	40 e 0 o	42 e 0 o	0 o	0 e	0 e	03 e 0 u
Thailand	193	266	312	373	435	475	505 o	530 o	554 o	554 e
Viet Nam	155	200	312	373	2 e	9 e	9 e	9 e	9 e	9 e
C America + Carib	12	14	13	16	31	35	42	43	46	45
Costa Rica	4	4	2	3	3	3	3 о	4	5	5 o
Cuba	•	·	1 e	1 e	1 e	1 e	1 e	1 e	1 e	1 e
Dominican Rep	1 o	1 o	1 0	2 0	2 0	2 0	2 e	2 e	2 e	2 e
El Salvador	6	6	6	7	7	7	7	7	7 o	7 e
Guadeloupe	0	0	0	0	0	0	5 о	5 о	5 о	5 e
Guatemala		1	1	4	4	7	7 o	7 о	7 o	6 o
Honduras	1 o	1 o	1 e	0 e	4 e	4 e	4 e	4 e	4 e	4 e
Martinique				1	1 0	1 0	1	1	1	1 e
Nicaragua Panama					0 e 8	0 e 8 o	2 e 8 e	2 e 8 o	2 e 8 e	2 e 8 o
Puerto Rico				0	o 2 o	2 0	ое 2 о	2 0	о е 5 е	5 o
ruerto Rico				O	2 0	2 0	2 0	2 0	2.6	3 0
Eurasia	133	162	204	253	298	378	440	549	763	1 001
Armenia	1									
Azerbaijan				1	1	1	1 o	1 e	1	1 o
Turkey	132	162	204	252	297	377	438	548	762 o	1000 o
Europe	9 681	10 196	10 831	11 277	11 759	12 178	12 892	13 291	13 814	14 035
Austria	273 e	194 e	189 e	191 e	202 e	180 e	175 o	164 e	165 e	165 e
Belarus	6	22	22	22	27	28	33 o	38 e	39	39 e
Belgium	141	151	181	179	188	183	190	197	199	199 e
Bosnia Herzg					1 u	1 e	1	2	2 o	2 e
Bulgaria		4	10	20	38	29	36 e	33 e	33 e	33 o
Croatia	12 9	17 10	17 10	28 10	37 o 10	45 o	51 o	52 e	55 o	55 o
Cyprus Czechia	300 o	361 o	367 o	368 o	369 o	10 e 372 o	13 e 369 o	13 e 368 e	13 o 366 e	13 e 366 e
Denmark	80 e	93 e	96 e	104 e	107 e	108 e	108 e	108 e	119 e	119 e
Estonia	4 e	6 e	8 e	11 e	11 e	11 e	9 e	8 e	11 e	11 o
Faroe Islands		3 0	3.0	•	0	•	2.0		0 0	0 e
Finland	46 e	88 e	100 e	102 e	114	116	116	116	116 o	116 e
France	256	298	342	383	409	444	465	500	533	563 o
Germany	4 921 o	5148 o	5 437 o	5 643 o	5 850 o	6 147 o	6 784 o	7 081 o	7 465 e	7 611 e
Greece	45 u	46 u	47 u	49 u	56 u	62 u	70 u	75 o	83 e	94 e
Hungary	53	63	63	72	76	82	76	79	85	85 e
Ireland Italy	44 o	52 o	53 o	53 o	56 o	56 o	57 1 775	59 e	59 o	59 e
Italy Latvia	1 274 43 e	1 317 53 e	1 336 58 e	1 336 60 e	1 352 62 e	1 372 60	1 375 61	1 382 61 e	1 379 60 e	1 379 o 60 o
Latvia Lithuania	43 e 15	55 e 16	58 e 20	60 e 21	62 e 25 e	25 e	35 o	ъте 35 о	60 е 36 е	37 e
Luxembourg	10	10	10	12	12	12 e	12 e	12 e	12 o	12 o
Malta	3	3	3	3	5	5	5 e	5 e	5 e	5 e
Moldova Rep	Ö	2	3	3	3	6	6	6	7	6 o
Netherlands	219 e	230 e	237 e	239 e	221 e	221 e	205 e	203 e	209 e	215 e
North Macedonia				4	5	7	7 о	8	8 o	8 e
Norway	17	17	17	17	10	10 e	10 e	7	7 e	7 e

Biogas Biogaz Biogás

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Poland	128 o	153 o	187 o	216 o	225 o	229 e	225 e	233 e	261 e	261 e
Portugal	51	55	66	66	68	70	71	72	71	75 e
Romania	5	11	15	14	16	22	22	20	30	30 e
Serbia	4	4	5	5	10	13	17	26	29	29 e
Slovakia	41	35	78	91	93	91	89	82	82 e	82 e
Slovenia	29	28	31	32	29	27	27	25	30	30 o
Spain	233	243	243	245	248	251	258	267	269	269 e
Sweden	5 e	5 e	2 e	2 e	2 e	2 e	2 o	2 e	2 e	2 e
Switzerland	33	33	32	29	29 o	30	30	30	34 o	34 e
UK	1 375 o	1 414 o	1 531 o	1628 o	1774 o	1 819 o	1836 o	1832 o	1838 o	1841 o
Ukraine	7 o	14 o	15 o	18 o	21 o	34 o	46 o	93	103	123 e
European Union (27)	8 241	8 692	9 208	9 555	9 885	10 236	10 918	11 260	11 759	11 957
Middle East	34	39	46	66	73	74	74	74	75	75
Iran IR	7	7	11	11 e	11 e	11 e	11 e	11 e	11 e	11 o
Israel	7 e	11 e	14 e	25 e	25 e	25 e	25 e	25 e	26 e	26 e
Jordan	4 o	4 o	4 o	13 u	13 u	13 e	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	9 e
Palestine						0	0 е	0 е	0 е	0 е
Qatar	8 u	8 u	8 u	8 u	8 u	8 u	8 e	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	1 e
N America	2 255	2 423	2 546	2 522	2 576	2 728	2 738	2 644	2 657	2 667
Canada	116	116	116	116	116	139	139 e	139	145 u	145 u
Mexico	37	36	36	36	85 o	173 o	220 o	202 e	204	211 e
USA	2 102	2 271	2 394	2 370	2 375	2 416	2 379	2 303	2 308 o	2 310 o
Oceania	277	269	279	282	241	240	240	240	248	248
Australia	230	220	226	228	190 o	190 o	190 o	190	197 o	198 o
New Zealand	45	45	49	50	47	46 o	46 o	46 o	46 e	46 e
Papua N Guin	2 u	4 u	4 u	4 u	4 u	4 u	4 u	4 e	4 e	4 e
Samoa									1 o	1 o
S America	222	223	245	272	546	360	411	512	570	589
Argentina Bolivia	17 o	17 o	17 o	17 o	17 o	21 o	23 o	44 o 5 o	55 e 5 o	69 e 5 o
Brazil	172	173	178 o	196 o	461 o	262 o	302 o	372 o	417 o	413 o
Chile	27	27	42	49	53	56 o	57 o	60 o	55 o	64 o
Colombia					4	4	4 0	4 0	9 0	9
Ecuador					2 o	7 o	7 o	7 o	7 o	8 0
Paraguay	0 e	0 e	0 e	0 е	0 e	0 e	0 e	2 0	2 e	2 e
Peru	5 o	5	5 o	7 o	7 o	7 o	10 o	10	10 o	10 o
Uruguay	1	1	2 e	2 e	2 e	2 e	8 e	8 e	8 e	8 e

Geothermal energy Énergie géothermique Energía geotérmica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	10 479	10 717	11 157	11 812	12 137	12 697	13 169	13 738	14 073	15 644
Africa	213	213	373	626	660	680	691	691	870	870
Ethiopia	7	7	7	7	7	7	7 e	7 о	7	7
Kenya	206 o	206 o	366 o	619 o	653 o	673 o	684 o	684 o	863 o	863 o
Asia	3 721	3 728	3 854	3 896	4 001	4 226	4 375	4 540	4 540	4 691
China	26	26	26	26	26	26	26	•	•	_
Chinese Taipei Indonesia	1 336 o	1344 o	1404 o	1 438 o	1533 o	1808 o	0 o 1948 o	0 o 2 131 o	0 o 2 131 o	5 o 2 277 o
Japan	512	512	508	516	526	476	473	481	481 o	481 o
Philippines	1847 o	1847 o	1 916 o	1 916 o	1 916 o	1 916 o	1928 o	1 928 o	1 928 o	1 928 o
Thailand	0	0	0	0	0	0	0 e	0 0	0 0	0 e
mananu	O	O	O	U	O	O	0 6	0 0	0 0	0 6
C America + Carib	656	641	637	640	629	665	665	722	723	723
Costa Rica	218	218	218	217	207	207	207 o	262 o	262 o	262 o
El Salvador	204	204	204	204	204	204	204 o	204 o	204 o	204 e
Guadeloupe	15	15	12	15	15	15 u	15 e	15 o	15 e	15 e
Guatemala	54	49	49	49	49	49	49 o	52 o	49 o	49 o
Honduras						35 o	35 o	35 o	39 o	39 o
Nicaragua	165	155	155	155	155	155	155 o	153 o	153 o	153 e
Eurasia	243	390	483	702	899	1 138	1 357	1 596	1 695	1 758
Russian Fed	81	79	78	78	78	74	74	81	81	81 e
Turkey	162	311	405	624	821	1064 o	1 283	1 515	1 613 o	1676 o
Europe	1 448	1 461	1 503	1 503	1 507	1 558	1 617	1 622	1 627	1 657
Austria	1	1	1	1	1	1	1	1 e	1 0	1 e
Croatia							10	10 o	10 o	10 o
France	14	15	15	15	16	16	16	16	16	16 e
Germany	16	26	29	29	33	32	35	40	40 e	40 e
Hungary						3 u	3 e	3	3 o	3 e
Iceland	665	665	665	665	665	710	756	756	756	756 e
Italy	728	729	768	768	767	767	767 e	767	772	802 o
Portugal	25	25	25	25	25	29	29	29	29	29 o
Romania			0 о	0 о	0 о	0 о	0	0 u	0 о	0 е
European Union (27)	798	811	849	852	857	863	876	881	886	916
N America	3 416	3 430	3 327	3 448	3 443	3 409	3 395	3 506	3 538	4 865
Mexico	824	823	813	906	926	926 o	951 o	951 o	951 o	976 o
USA	2 592	2 607	2 514	2 542	2 517	2 483	2 444	2 555	2 587 o	3 889 o
Oceania	782	854	980	997	997	997	1 021	1 021	1 040	1 040
Australia	0	0	0	0	0	0 e		0 u	0 e	0 e
New Zealand	726	798	924	941	941	941	965	965	984 o	984 e
Papua N Guin	56 u	56 u	56 u	56 u	56 u	56 u	56 u	56 e	56 e	56 e
S America						24	48	40	40	40
Chile						24 o	48	40 o	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)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	5 068.753	5 553.931	6 545.231	7 246.170	7 920.126	7 967.120	9 872.200	10 282.536	10 759.426	11 225.005
Africa	401.893	461.391	546.402	683.215	944.246	1 233.719	1 415.176	1 528.603	1 593.221	1 675.223
Algeria			11.300	59.300	229.300	410.200	433.000	433.000	433.000	433.000
Angola Benin	31.263	32.458	34.821	35.726	36.236 1.500	48.656 1.500	48.656 1.500	48.656 1.500	48.656 1.540	48.656 1.540
Botswana	0.315	0.415	0.560	0.853	1.925	2.047	2.352	2.352	2.389	2.389
Burkina Faso	5.800	6.450	7.150	8.150	10.150	12.150	27.150	29.650	29.650	29.650
Burundi	6.803	7.803	8.003	8.303	9.303	10.303	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	0.846
Cameroon	3.100	3.900	5.900	7.700	9.300	11.896	14.492	14.492	14.617	14.742
Cent Afr Rep	0.500	0.500 0.050	0.500 0.050	0.500 0.172	0.500 1.273	0.500 1.273	0.500 1.290	0.516 1.290	0.516	0.516 1.327
Chad Congo DR	0.003 97.247	98.349	98.568	111.732	114.297	129.095	154.587	164.487	1.327 164.487	164.487
Congo Rep	0.120	0.230	0.460	0.460	0.460	0.570	0.720	0.720	0.720	0.720
Cote d Ivoire	1.973	2.908	3.834	5.059	5.059	8.278	13.144	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	20.362
Egypt	20.000	20.000	20.000	21.000	35.000	35.000	49.200	35.200	35.390	35.390
Eritrea Eswatini	0.848 2.461	0.860 2.478	8.684 2.504	8.684 2.504	9.034 2.504	11.034 2.504	18.534 2.504	20.784 2.504	23.034 2.504	25.284 2.504
Ethiopia	2.427	4.623	10.410	11.169	15.325	13.779	13.631	13.631	21.469	22.469
Gabon	1.600	1.600	1.600	2.800	2.887	2.887	2.887	2.887	2.887	2.887
Gambia	1.991	1.995	2.000	2.000	2.000	2.002	2.002	2.002	2.002	2.002
Ghana	6.774	7.269	10.562	15.541	19.405	24.407	31.052	37.878	44.350	44.350
Guinea	2.820	5.591	5.591	15.493	15.499	15.499	15.503	15.503	15.503	15.503
Guinea Bissau	0.502	12 440	21.077	0.312	0.312	0.312	1.169	1.169	1.169	1.169
Kenya Lesotho	8.582 0.180	12.440 0.343	21.973 0.343	36.056 0.343	40.705 0.343	54.082 0.343	65.386 0.343	65.386 0.343	65.470 0.343	65.470 0.343
Liberia	4.040	4.040	4.040	4.057	4.059	6.406	6.583	6.583	6.583	6.583
Libya	4.900	4.900	4.900	4.900	4.900	5.110	5.110	5.110	5.111	6.333
Madagascar	6.450	8.985	11.630	14.660	16.660	18.760	18.760	18.760	18.760	18.760
Malawi	4.081	5.965	8.234	12.657	12.957	20.037	26.594	81.323	82.635	82.635
Mali	47.741	47.741	56.150	57.178	57.571	59.252	59.252	59.297	59.542	89.542
Mauritania Morocco	20.000	7.400 20.000	7.551 23.800	7.566 23.800	24.166 25.870	24.166 27.895	25.466 27.895	25.609 27.903	25.609 28.000	25.609 28.000
Mozambique	1.575	5.175	7.900	11.060	14.060	16.060	16.060	16.060	16.060	16.060
Namibia	10.702	13.402	14.178	14.178	14.178	14.187	21.940	23.880	23.880	23.880
Niger	4.000	5.000	6.000	7.000	8.000	9.041	20.041	20.041	20.041	20.041
Nigeria	21.200	22.900	24.600	26.400	27.830	28.030	28.195	37.174	37.643	37.643
Reunion	1.750	0.570	7.004	7.007	10.071	17.400	07.750	1.340	1.340	1.340
Rwanda Sao Tome Prn	1.359	2.538 0.063	3.081 0.098	7.007 0.119	12.231 0.157	17.426 0.316	27.756 0.334	28.264 0.334	28.414 0.334	28.414 0.334
Senegal	5.900	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
Seychelles	3.300	0.068	0.068	0.068	0.068	0.068	1.022	1.022	1.022	1.022
Sierra Leone	0.487	0.634	0.645	0.670	0.734	8.720	9.136	9.136	9.136	9.176
Somalia	2.200	2.200	2.300	2.970	7.470	10.444	10.618	10.618	19.088	27.088
South Africa	7.109	7.204	7.500	7.650	7.650	7.650	7.650	9.516	9.516	9.516
South Sudan	0.160	0.160	0.160	0.160	0.428	0.449	0.737	0.835	0.835	1.278
Sudan Tanzania	8.066 32.464	14.666 34.974	16.584 46.248	19.911 53.675	26.219 59.329	35.800 63.677	59.478 68.076	80.199 65.249	116.840 65.249	135.570 65.249
Togo	0.346	0.426	0.815	1.696	2.131	2.527	3.490	5.460	5.460	5.493
Tunisia	1.555	1.555	1.563	1.710	2.060	2.076	2.076	7.076	7.076	7.076
Uganda	17.320	27.500	29.000	34.500	36.500	39.400	39.240	39.360	39.520	39.679
Zambia	2.607	2.667	2.667	1.917	1.951	1.951	2.081	9.921	9.921	9.921
Zimbabwe	2.450	3.515	4.272	5.931	6.714	7.857	9.518	12.928	12.928	12.928
Asia	4 086.464	4 412.121	5 256.872	5 734.556	6 100.857	5 815.261	7 357.613	7 619.641	8 005.909	8 388.692
Afghanistan	36.970	41.140	46.109	50.127	54.814	58.416	57.948	57.482	57.138	57.138
Bangladesh	69.771	98.329	124.037	146.782	153.261	170.363	162.471	171.884	163.010	146.833
Bhutan Cambodia	8.353 2.257	8.353 2.798	8.353 2.992	8.353 4.995	8.353 5.676	8.353 5.691	8.590 5.096	8.590 5.012	8.590 4.549	8.590 4.549
China	391.330	508.330	586.930	655.530	710.490	747.190	786.950	826.710	866.470	906.230
India	768.979	935.774	1 201.010	1 355.564	1 566.152	1805.507	2 079.650	2 081.682	2 238.922	2 415.717
Indonesia	1 915.888	1 655.872	1 671.392	1 682.078	1 689.607	1 726.910	2 671.190	2 682.150	2 744.610	2 861.960
Kazakhstan	2.436	15.262	71.255	86.517	99.689	116.656	281.060	608.000	807.000	885.256
Korea DPR	2.494	6.339	11.158	22.994	31.734	35.380	38.380	41.380	41.380	41.380
Lao PDR Malaysia	2.015 504.974	2.475 732.644	2.907 1 101.978	3.259 1 240.665	3.414 1 245.868	3.414 534.533	3.704 539.550	3.704 539.580	3.704 539.580	3.704 539.580
Maldives	2.731	3.160	5.289	6.206	8.895	12.198	17.885	22.012	28.112	32.212
Mongolia	8.583	8.583	8.583	8.583	8.583	8.583	8.583	8.583	8.577	8.571
Myanmar	50.291	55.809	61.811	75.584	88.119	102.289	110.740	113.730	109.744	105.695
Nepal	47.373	52.380	56.387	61.872	63.953	104.949	103.242	102.760	110.030	112.194
Pakistan	15.878	16.433	16.633	16.782	16.775	27.987	29.071	39.290	39.290	39.290
Philippines	26.540	31.567	32.007	35.370	44.320	44.601	53.806	89.426	89.329	89.329
Sri Lanka	12.786	13.041	13.218	13.464	13.815	14.078	14.274	14.243	13.963	13.963
Tajikistan Timor Leste	43.200 1.097	43.200 1.114	43.200 1.133	43.200 1.141	43.200 1.449	43.200 1.448	44.160 1.448	44.160 1.448	44.160 1.436	45.260 1.426
Uzbekistan	1.037	1.000	1.000	1.000	2.200	3.025	3.325	3.325	3.325	3.325
Viet Nam	172.518	178.518	189.490	214.490	240.490	240.490	336.490	154.490	82.990	66.490

Total renewable energy Total énergies renouvelables Total energías renovables

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
C America + Carib	56.604	75.828	81.152	84.060	83.660	96.470	107.170	108.717	109.007	109.730
Antigua Barb					0.010	0.414	0.414	0.414	0.414	0.414
Bahamas	0.020	0.025	0.126	0.147	0.200	0.146	0.115	0.058	0.058	0.058
Belize	1.895	1.930	2.110	3.410	3.410	3.410	3.410	0.640	0.640	0.640
Costa Rica						4.500	4.500	6.081	6.140	6.140
Cuba						0.467	0.835	8.900	9.124	9.847
Dominica	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Dominican Rep	16.190	18.254	20.310	22.591	24.701	33.949	39.951	40.143	40.178	40.178
El Salvador	0.184	12.545	12.545	12.545	12.545	12.418	14.856	4.016	4.016	4.016
Guatemala	1.525	2.560	5.434	8.308	8.308	8.308	8.308	8.308	8.308	8.308
Haiti	0.730	0.831	0.927	1.154	1.195	1.275	1.318	1.371	1.371	1.371
Honduras	5.156	5.156 0.006	5.170	5.170 0.013	5.270 0.013	3.000 0.013	2.970 0.013	9.584 0.013	9.584 0.013	9.584 0.013
Jamaica Nicaragua	0.400	0.400	0.008 0.400	0.400	0.013	0.013	1.912	4.312	4.312	4.312
Nicaragua Panama	30.494	34.011	34.011	30.211	27.711	28.211	28.211	24.520	24.520	24.520
Puerto Rico	30.494	34.011	34.011	30.211	27.711	0.062	0.070	0.070	0.042	0.042
St Kitts Nevis			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
St Lucia			0.001	0.001	0.176	0.176	0.176	0.176	0.176	0.176
US Virgin Is		0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Middle East	4.452	38.981	53.050	108.394	128.551	148.596	303.153	306.298	311.738	311.753
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	30.840	37.840	37.840	37.840	37.840	37.840	37.840	37.840	37.840
Jordan	0.073	0.141	0.236	0.557	0.593	0.588	0.623	0.670	2.385	2.385
Kuwait	0.070	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400
Lebanon	0.504	2.061	3.390	3.397	3.507	3.527	7.880	7.880	7.880	7.890
Oman					0.011	0.011	0.011	0.011	0.011	0.011
Palestine								1.833	1.833	1.833
Saudi Arabia			0.014	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	0.190	0.192	3.192	3.208	3.208	3.238	3.407	4.672	5.597	5.597
Yemen	1.367	2.369	5.000	60.000	80.000	100.000	250.000	250.000	252.800	252.805
Oceania	156.022	158.024	160.132	163.454	167.856	170.106	172.262	174.751	174.965	174.998
Amer Samoa					1.504	1.854	1.854	1.854	1.854	1.854
Cook Is	0.047	0.047	0.047	0.047	0.047	0.047	1.769	1.769	1.769	1.769
Fiji	1.594	1.156	1.352	2.052	4.052	4.119	4.521	4.571	4.722	4.755
Fr Polynesia	1.748	1.848	2.948	3.148	3.248	3.548	3.448	3.548	3.548	3.548
Kiribati	0.466	0.502	0.743	1.389	1.397	1.397	1.397	1.397	1.397	1.397
Marshall Is	0.300	0.480	0.650	0.650	0.650	0.650	0.667	0.667	0.667	0.667
Micronesia	0.297	0.388	0.388	0.388	0.388	0.388	0.395	0.395	0.395	0.395
Nauru New Caledon	0.500	0.008 0.500	0.008 0.500	0.008 0.500	0.008 0.500	0.009 0.760	0.009 0.760	0.167 0.760	0.167 0.760	0.167 0.760
Palau	0.300	0.500	0.500	0.500	0.300	0.760	0.760	0.760	0.760	0.235
Papua N Guin	149.140	151.046	151.046	151.585	151.936	151.902	151.665	153.403	153.403	153.403
Samoa	0.014	0.014	0.014	0.014	0.014	0.039	0.039	0.197	0.197	0.197
Solomon Is	1.492	1.492	1.768	1.768	1.949	2.324	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	0.131	0.234	0.234	0.240	0.277	0.277	0.277	0.277	0.277	0.277
Tuvalu	0.192	0.192	0.192	1.308	1.316	1.321	1.332	1.332	1.332	1.332
Vanuatu	0.080	0.096	0.221	0.336	0.379	1.280	1.614	1.834	1.897	1.897
S America	363.318	407.586	447.623	472.491	494.956	502.968	516.826	544.526	564.586	564.609
Argentina	4.801	3.695	6.237	4.748	4.753	4.753	4.753	13.509	13.509	13.509
Bolivia	72.301	73.705	96.035	105.735	105.735	105.735	123.160	128.550	139.550	139.550
Brazil	0.721	0.721	0.721	3.930	4.091	7.212	7.227	7.241	7.241	7.241
Chile	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	1.445	1.445
Colombia	1.381	1.442	1.477	1.840	1.897	6.937	8.994	16.937	24.085	24.085
Ecuador	6.880	7.200	10.250	12.250	12.320	12.320	13.879	13.879	13.879	13.902
Falklands Malv	0.340	0.340	0.340	0.410	0.410	0.410	0.410	0.410	0.410	0.410
Fr Guiana	1.211	1.211	1.211	1.211	1.211	1.211	1.211	4.311	4.311	4.311
Guyana	46.279	46.496	46.706	47.151	37.787	37.800	38.419	38.563	38.563	38.563
Paraguay Peru	0.005 194.107	0.057 195.845	0.057 205.543	0.057	0.057 244.947	0.057 238.135	0.057	0.057	0.057	0.057 222.219
South Georgia	0.256	0.256	0.256	214.442 0.256	0.256	0.256	224.136 0.256	222.219 0.256	222.219 0.256	0.256
Suriname	0.256	0.256	1.195	2.845	3.310	4.312	4.906	4.906	5.562	5.562
Surmame Uruguay	0.500	0.943	1.340	1.361	3.310 1.927	4.312 7.575	13.573	4.906 17.433	5.562 18.009	18.009
Venezuela	33.110	74.390	75.490	75.490	75.490	7.575 75.490	75.080	75.490	75.490	75.490
uciu	55.110	. 4.550	, 5.450	. 3.430	, 5.450	, 3.430	. 5.550	, 3.430	. 3.430	, 5.450

Hydropower Hydroélectricité Hidroeléctrica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	676.606	694.102	705.620	749.928	758.795	780.237	1 730.912	1 753.962	1 775.102	1 888.568
Africa	161.915	172.775	176.206	199.651	203.528	239.144	248.984	262.284	262.434	262.434
Angola	21.659 u	21.659 u	22.859 u	22.859 u	22.859 u	35.279 u	35.279 e	35.279 e	35.279 e	35.279 e
Burkina Faso								2.500 u	2.500 e	2.500 e
Burundi	1.603 o	1.603 e								
Cameroon	0.300 e	0.300 o	0.300 e							
Cent Afr Rep	0.200 e									
Congo DR	97.000 e	97.800 e	97.800 e	110.900 e	110.900 e	121.700 e	131.700 u	141.600 u	141.600 e	141.600 e
Eswatini	1.700	1.700	1.700	1.700	1.700 e					
Ethiopia	1.279 e	1.279 e	1.279 e	1.279 e	1.279	1.279	1.279 e	1.279 e	1.279	1.279
Gabon	0.200 e	0.200 e	0.200 e	0.200 e	0.287 e					
Guinea	2.220 o	2.220 e								
Kenya	5.139 e	5.139 e	5.779 e	5.779 e	9.269 e	15.389 e	15.389 e	15.389 e	15.389 e	15.389 e
Lesotho	0.180	0.180	0.180	0.180 e						
Liberia	4.000 e									
Madagascar	3.509 o	3.574 o	4.219 o	5.249 o	5.249 o	5.349 e				
Malawi	1.400 e	1.400 e	1.400 e	1.400 e	1.700 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						
Nigeria				0.400 o	0.400 o	0.400 o	0.400 o	0.400 e	0.400 e	0.400 e
Rwanda	1.140 o	1.840 o	1.840 o	1.840 o	1.840 o	2.276 o	2.276 e	2.276 e	2.426 o	2.426 e
Sierra Leone	0.250 e	4.890 e								
South Africa	7.109 e	7.204 e	7.500 e	7.650 e						
Tanzania	8.800 e	8.800 e	8.800 e	14.620 e	14.620 e	15.420 e				
Uganda		9.000 e	9.000 e	12.500 e	12.500 e	12.800 e	12.640 e	12.600 e	12.600 e	12.600 e
Zambia	2.607 o	2.607 o	2.607 o	1.857 o	1.857 o	1.857 o	1.857 o	2.497 u	2.497 e	2.497 e
Zimbabwe	1.545	1.545	1.570	1.605 e						
Asia	280.703	293.130	303.165	319.625	326.340	331.049	1 270.239	1 281.533	1 301.823	1 415.289
Afghanistan	20.748 e	24.197 e	27.646 e	31.095 e	34.544 e	37.993 e				
Bhutan	8.078 o	8.315 o	8.315 o	8.315 o	8.315 o					
India	79.237 e	82.169 e	83.377 e	84.079 e	84.675 e	84.675 e	84.675 e	84.675 o	84.675 e	84.675 e
Indonesia	9.555 e	11.515 e	12.764 e	14.457 e	14.887 e	14.887 e	944.880 o	944.880 o	964.300 o	1 075.550 o
Lao PDR	2.005 u	2.005 e	2.005 e	2.005 e						
Malaysia	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	0.495 e
Mongolia	2.992 e	2.992 o	2.992 e	2.992	2.992 e					
Myanmar	2.949 e	2.974 e	3.165 e	6.890 e						
Nepal	38.802 o	42.168 o	45.456 o	49.102 o	51.012 o	52.257 o	52.257 e	53.506 e	54.376 e	55.492 e
Pakistan	15.104 e	15.554 e	15.619 e	15.634 e	15.634 e	15.634 e				
Philippines	9.595 o	9.595 o	9.595 o	12.595 o	12.595 o	12.595 o	20.595 o	30.595 o	30.595 o	30.595 e
Sri Lanka	5.003 e	5.248 e	5.493 e	5.738 e	6.068 e					
Tajikistan	43.200	43.200	43.200	43.200	43.200	43.200	44.160 e	44.160 e	44.160	45.260 u
Timor Leste	0.325 o	0.325 o	0.325 e							
Viet Nam	43.000 e									
C America + Carib	0.902	1.173	1.460	1.736	1.557	1.688	1.738	3.665	3.685	3.685
Cuba								1.900 o	1.900 u	1.900
Dominican Rep	0.362 o	0.633 o	0.920 o	1.196 o	1.317 o	1.448 o	1.528	1.665 o	1.685 o	1.685 e
El Salvador	0.140 e	0.030 o	0.030 e	0.030 e						
Honduras					0.100 e	0.100 e	0.070 e	0.070 e	0.070 e	0.070 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									
Oceania	77.605	76.714	76.789	76.789	76.942	76.942	76.942	76.942	76.942	76.942
Fiji	1.021 u	0.130 e	0.130 e	0.130 e						
Papua N Guin	76.395 u	76.395 e	76.395 e	76.395 e						
Solomon Is	0.189 o	0.189 o	0.189 o	0.189 o	0.339 o	0.339 o	0.339 o	0.339 e	0.339 e	0.339 e
Vanuatu	0.103 0	0.103 0	0.075 e	0.075 e	0.078 e					
S America	154.141	148.970	146.660	150.787	149.088	130.074	131.669	128.198	128.878	128.878
Argontina	4.706 o	3.600 o	6.136 o	4.026 o	4.055 o	4.055 e				
Argentina Polivia			0.130 0							
Bolivia	8.000	8.000	0.765	1.200	1.200	1.200	0.800 e	0.800 o	0.800 e	0.800 e
Chile	0.765 o	1.445 o	1.445 o							
Colombia	4 400	4 400	7.000	0.318 e	0.318 e	5.318 o	5.318 o	9.405 e	9.405 e	9.405 e
Ecuador	4.400 o	4.400 o	3.660 o	5.660 o	5.660 o	5.660 e	6.060 o	6.060 o	6.060 o	6.060 o
Fr Guiana	1.050 o									
Guyana	2.019 e	2.175 e	2.330 e	2.330 o	2.330 e	2.330 e	2.330 e	2.350 o	2.350 e	2.350 e
Peru	132.141 o	127.920 o	131.659 o	134.228 o	132.500 o	108.456 o	110.061 o	102.073 o	102.073 o	102.073 o
South Georgia	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250 e	0.250 e
Suriname	2 27 -	0.04-	0.04-	0.150	0.150	0.180 e				
Venezuela	0.810 o	0.810 o	0.810 u	0.810 u	0.810 e	0.810 e	0.800 e	1.210 o	1.210 e	1.210 e

Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	716.236	1 071.997	1 407.342	1 794.485	2 291.707	2 932.667	3 666.758	4 190.925	4 547.311	4 865.165
Africa	154.622	197.140	253.760	365.258	620.051	871.039	1 042.166	1 142.188	1 206.656	1 268.658
Algeria	0.604 -	10 700 -	1.100	49.100	219.100	400.000 o	423.000 u	423.000 e	423.000 e	423.000 e
Angola	9.604 e	10.799 e	11.962 e	12.867 e	13.377 e 1.500	13.377 e 1.500	13.377 e 1.500	13.377 e 1.500 e	13.377 e 1.540 o	13.377 e 1.540 e
Benin Botswana	0.315 e	0.415 e	0.560 e	0.853 e	1.925 e	2.047 e	2.352 e	2.352 e	2.389 e	2.389 e
Burkina Faso	5.800 e	6.300 e	7.000 e	8.000 e	10.000 e	12.000 e	27.000 o	2.332 e 27.000 e	27.000 e	27.000 e
Burundi	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	4.700 e
Cabo Verde	0.074	0.151	0.305	0.618	0.674	0.735	0.801 e	0.846 u	0.846 e	0.846 e
Cameroon	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 e	14.442 e
Cent Afr Rep	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	0.316 e
Chad	0.003 e	0.050 e	0.050 e	0.172 e	0.173 e	0.173 e	0.190 e	0.190 e	0.227	0.227 e
Congo DR	0.087 e	0.389 e	0.608 e	0.672 e	3.237 u	5.235 u	19.927 e	19.927 e	19.927 e	19.927 e
Congo Rep	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	0.720 e
Cote d Ivoire	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	13.144 e
Djibouti	0.300 e	0.300 e	0.300 e	0.300 e	0.362 u	0.362 u	0.362 u	0.362 u	0.362 e	0.362 e
Egypt	15.000	15.000	15.000	16.000 o	30.000 o	30.000 o	44.200 o	30.200 o	30.390 o	30.390 e
Eritrea	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	24.459 e
Eswatini	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	0.804 e
Ethiopia	1.148	3.344	9.131	9.890	14.040	12.494	12.346	12.346	20.184	21.184
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	1.991 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	2.002 e
Ghana	0.000 *	0.495 o	2.288 0	7.247 o 13.273 e	11.111 0	16.113 o 13.279 e	22.758 o 13.283 e	29.584 o 13.283 e	36.056 o 13.283 e	36.056 e 13.283 e
Guinea Cuinea Bissau	0.600 e	3.371 e	3.371 e		13.279 e	0.312 e				
Guinea Bissau	2.889 e	6.747 e	15.640 e	0.312 e 29.673 e	0.312 e 30.832 e	0.312 e 37.979 e	1.169 o 49.393 e	1.169 e 49.393 e	1.169 e 49.477 u	1.169 e 49.477 e
Kenya Lesotho	2.009 E	0.747 e 0.163 e	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	0.040 u	0.103 e	0.103 e	0.103 e 0.057 u	0.103 e	2.406 u	2.583 u	2.583 e	2.583 e	2.583 e
Libya	4.900 u	4.900 u	4.900 u	4.900 u	4.900 u	5.110 u	5.110 e	5.110 e	5.111 e	6.333 u
Madagascar	2.600 e	5.000 e	7.000 e	9.000 e	11.000 e	13.000 e	13.000	13.000	13.000 e	13.000 e
Malawi	2.681 e	4.565 e	6.834 e	11.257 e	11.257 e	18.337 e	24.894 e	79.323 e	80.635 u	80.635 e
Mali	15.741 e	15.741 o	16.150 e	17.178 e	17.571 e	19.252 e	19.252 e	19.297 e	19.542 e	49.542 u
Mauritania		3.000 o	3.151 o	3.166 o	19.766 o	19.766 o	21.066 u	21.209 u	21.209 e	21.209 e
Morocco	15.000	15.000	18.800	18.800	20.870	22.895 o	22.895 o	22.903 o	23.000	23.000 e
Mozambique	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	15.000 e
Namibia	10.700 e	13.400 e	14.176 e	14.176 e	14.176 e	14.176 e	21.929 e	23.869	23.869 e	23.869 e
Niger	4.000 e	5.000 e	6.000 e	7.000 e	8.000 e	9.041 u	20.041 u	20.041 u	20.041 e	20.041 e
Nigeria	15.200 e	15.400 e	15.600 e	17.000 e	17.200 e	17.400 e	17.565 u	26.439 u	26.908 u	26.908 e
Reunion								1.340 u	1.340 e	1.340 e
Rwanda	0.219 e	0.698 e	1.241 e	5.167 e	10.391 e	15.150 e	25.480 e	25.988 e	25.988 e	25.988 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	0.334 e
Senegal	5.900 e	7.000 e	7.000 e	7.000 e	7.000 e	7.000 e	7.000 e	7.000 e	7.000 e	7.000 e
Seychelles		0.068 o	0.068 o	0.068 o	0.068 o	0.068 e	1.022 e	1.022 e	1.022 e	1.022 e
Sierra Leone	0.237 u	0.384 u	0.395 u	0.420 u	0.484 u	3.830 u	4.246 u	4.246 e	4.246 e	4.286 u
Somalia			0.100 e	0.170 e	4.670 e	6.894 e	7.068 e	7.068 e	15.538 u	23.538 u
South Africa	0.100 -	0.100	0.100 -	0.100 -	0.420	0.440	0.777 a	1.866 u	1.866 e	1.866 e
South Sudan Sudan	0.160 e 8.066 u	0.160 e 14.666 u	0.160 e 16.584 u	0.160 e 19.911 u	0.428 u 26.219 u	0.449 u 35.800 u	0.737 e 59.478 u	0.835 u 80.199 u	0.835 e 116.840 u	1.278 u 135.570 u
Tanzania	1.164 e	3.674 e	11.188 e	12.795 e	18.424 e	21.972 e	26.371 e	23.544 e	23.544 e	23.544 e
Togo	0.346 e	0.426 e	0.815 e	1.696 e	2.131 e	2.527 e	3.490 o	5.460 o	5.460 e	5.493 u
Tunisia	1.555 e	1.555 e	1.563 e	1.710 e	2.060 e	2.076 e	2.076 e	7.076 u	7.076 e	7.076 e
Uganda	17.320 e	18.500 e	20.000 e	22.000 e	24.000 e	26.600 e	26.600 e	26.760 e	26.920 e	27.079 e
Zambia	e	0.060 e	0.060 e	0.060 e	0.094 e	0.094 e	0.224 e	7.424 e	7.424 e	7.424 e
Zimbabwe	0.905 e	1.970 e	2.702 e	4.326 e	5.109 e	6.252 e	7.913 e	11.323 e	11.323 e	11.323 e
Asia	508.605	766.339	1 016.259	1 218.487	1 426.017	1 774.227	2 182.214	2 593.826	2 871.450	3 126.513
Afghanistan	16.122 e	16.843 e	18.363 e	18.932 e	20.170 e	20.323 e	19.855 e	19.389 e	19.045 e	19.045 e
Bangladesh	66.021 o	93.909 o	118.917 o	140.132 o	146.211 o	163.313 o	155.421 o	164.834 e	155.660 e	139.483 e
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	0.548 e	0.742 e	1.245 e	1.926 e	1.941 e	1.346 e	1.262 e	0.799 e	0.799 e
China India	217.800 149.717 e	297.800 269.577 e	337.800	357.800 486.114 e	367.800 637.861 e	376.800 870.886 e	385.800 1 098.628 e	394.800 e 1130.378 e	403.800 o 1 190.378 e	412.800 e 1 367.173 e
Indonesia	22.333 e	29.357 e	381.328 e 32.628 e	41.621 e	41.720 e	43.023 e	41.050 o	50.010 o	61.490 o	67.590 o
Kazakhstan	2.436 e	15.262	71.255	86.517	99.689	116.656	281.060	608.000	807.000	885.256 e
Korea DPR	2.294 u	6.139 u	10.958 u	22.794 u	31.534 u	34.780 u	37.780 u	40.780 u	40.780 e	40.780 e
Lao PDR	0.010 e	0.470 e	0.902 e	1.254 e	1.409 e	1.409 e	1.409 e	1.409 e	1.409 e	1.409 e
Malaysia	0.004 o	0.470 e	1.528 e	2.415 e	2.418 e	2.428 e	7.445 e	7.445 e	7.445 e	7.445 e
Maldives	1.324 o	1.753 o	3.882 o	4.799 o	7.488 o	10.791 o	16.478 o	20.605 u	26.705 u	30.805 u
Mongolia	4.585 e	4.585 e	4.585 e	4.585 e	4.585 e	4.585 e	4.585 o	4.585 e	4.585	4.585 e
Myanmar	2.800 e	4.209 o	6.271 o	20.819 o	32.008 o	43.781 o	47.542 o	48.482 o	44.496 o	40.447 e
Nepal	8.571 o	10.143 o	10.862 o	12.701 o	12.872 o	52.623 e	50.816 e	49.055 e	55.455 e	56.503 e
Pakistan	0.213 e	0.318 e	0.453 e	0.602 e	0.595 e	11.789 e	12.199 e	22.403 e	22.403 e	22.403 e
Philippines	1.020 o	1.047 o	1.487 o	1.850 o	1.895 o	2.176 o	3.381 o	13.001 o	12.904 o	12.904 e
Sri Lanka	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	7.895 e
Timor Leste	0.772 e	0.789 e	0.808 e	0.816 e	1.124 e	1.123 e	1.123 e	1.123 e	1.111 e	1.101 e
Uzbekistan		1.000	1.000	1.000	2.200	3.025	3.325	3.325 e	3.325	3.325 e
Viet Nam	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	4.490 e
C America + Carib	12.344	28.104	32.858	38.785	40.562	48.143	56.745	50.065	50.335	51.058
Antigua Barb					0.010 e	0.414 e	0.414 e	0.414 e	0.414 e	0.414 e

Solar photovoltaic Solaire photovoltaïque Solar fotovoltaica

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Bahamas	0.020 e	0.025 e	0.126 e	0.147 e	0.200 e	0.146 e	0.115 e	0.058 e	0.058 e	0.058 e
Belize	1.875	1.910	2.090	3.390	3.390	3.390	3.390 e	0.620 u	0.620 e	0.620 e
Costa Rica								1.581 e	1.640 e	1.640 e
Cuba		1.500	7.000	4.500	C 177	0.467 u	0.835 u	7.000 u	7.224 u	7.947
Dominican Rep El Salvador	0.044 e	1.500 12.405 e	3.000 12.405 e	4.500 12.405 e	6.173 12.405 e	15.192 12.278	20.992 14.716	21.047 o 3.986 o	21.062 o 3.986 e	21.062 e 3.986 e
Guatemala	1.525 e	2.560 e	5.434 e	8.308 e	8.308 e	8.308 e				
Haiti	0.730 e	0.831 e	0.927 e	1.154 e	1.195 e	1.275 e	1.294 e	1.347 e	1.347 e	1.347 e
Honduras	5.156 e	2.886 e	2.886 e	3.200	3.200	3.200 e				
Jamaica		0.006 e	0.008 e	0.013 e	0.013 e	0.013 e				
Nicaragua								2.400 o	2.400 o	2.400 e
Panama	2.994	3.711	3.711	3.711	3.711	3.711 o	3.711 e	0.020 u	0.020 e	0.020 o
Puerto Rico						0.062 e	0.070 o	0.070 o	0.042 e	0.042 e
St Kitts Nevis			0.001 e	0.001 e	0.001 e					
Middle East	2.012	32.641	45.710	101.054	121.211	141.256	295.813	298.958	304.388	304.398
Iran IR	0.378	0.378	0.378	0.378	0.378	0.378	0.378 e	0.378 e	0.378 e	0.378 e
Iraq		29.500 o	36.500 o	36.500 e	36.500 e	36.500 e				
Jordan	0.073 o	0.141 o	0.236 o	0.557 o	0.593 o	0.588 o	0.623 o	0.670 o	2.375 o	2.375 e
Lebanon	0.004 e	0.061 e	0.390 e	0.397 e	0.507 e	0.527 e	4.880 o	4.880 o	4.880 e	4.890 o
Oman					0.011 e	0.011 e	0.011 e	0.011 e	0.011 e	0.011 e
Palestine			0.014 e	1.833 o 0.014 e	1.833 e 0.014 e	1.833 e 0.014 e				
Saudi Arabia United Arab Em	0.190 e	0.192 e	3.192 e	3.208 e	3.208 e	3.238 u	3.407 o	4.672 o	5.597 u	5.597 e
Yemen	1.367 o	2.369 o	5.000 o	60.000 o	80.000 o	100.000 e	250.000 u	250.000 e	252.800 u	252.800 e
Oceania	5.205	6.186	8.219	11.581	15.830	18.080	20.235	22.724	22.938	22.971
Amer Samoa	3.203	0.100	0.219	11.501	1.504 e	1.854 e	1.854 e	1.854 e	1.854 e	1.854 e
Cook Is	0.047 e	1.769 e	1.769 e	1.769 e	1.769 e					
Fiji	0.555 u	1.002 u	1.198 u	1.898 u	3.898 u	3.965 u	4.367 u	4.417 u	4.568 e	4.601 e
Fr Polynesia	1.500 o	1.600 o	2.700 o	2.900 o	3.000 o	3.300 o	3.200 o	3.300 o	3.300 o	3.300 e
Kiribati	0.466 o	0.502 o	0.743 o	1.389 o	1.397 o	1.397 o	1.397 e	1.397 e	1.397 e	1.397 e
Marshall Is	0.300 e	0.480 e	0.650 e	0.650 e	0.650 e	0.650 e	0.666 u	0.666 e	0.666 e	0.666 e
Micronesia	0.297 e	0.388 e	0.395 u	0.395 e	0.395 e	0.395 e				
Nauru		0.008 e	0.008 e	0.008 e	0.008 e	0.009 e	0.009 e	0.167 e	0.167 e	0.167 e
New Caledon	0.500 o	0.760 o	0.760 o	0.760 e	0.760 e	0.760 e				
Palau Panua N Cuin	0.339 e	0.339 e	0.339 e	0.878 u	0.170 o 1.229 u	0.170 o 1.195 u	0.170 e 0.958 u	0.235 u 2.696 e	0.235 e 2.696 e	0.235 e 2.696 e
Papua N Guin Samoa	0.339 e 0.014 e	0.339 e 0.014 e	0.339 e 0.014 e	0.676 u 0.014 e	0.014 e	0.039 e	0.936 u 0.039 e	0.197 e	0.197 e	2.696 e 0.197 e
Solomon Is	0.803 e	0.803 e	1.079 e	1.079 e	1.110 e	1.485 e	1.485 e	1.485 u	1.485 e	1.485 e
Tokelau	0.021 u	0.021 e	0.021 e	0.021 e	0.021 e	0.021 e				
Tonga	0.131 o	0.234 o	0.234 o	0.240 o	0.277 o	0.277 o	0.277 o	0.277 o	0.277 o	0.277 o
Tuvalu	0.192 o	0.192 o	0.192 o	1.308 o	1.316 o	1.321 o	1.332 o	1.332 o	1.332 e	1.332 e
Vanuatu	0.040 e	0.056 e	0.106 e	0.261 e	0.301 e	1.202 e	1.536 e	1.756 e	1.819 e	1.819 e
S America	33.448	41.587	50.536	59.320	68.036	79.922	69.585	83.164	91.544	91.567
Argentina	0.026 o	0.026 o	0.024 o	0.618 o	0.606 o	0.606 e	0.606 e	2.030 o	2.030 e	2.030 e
Bolivia	4.131 e	5.535 e	4.860 o	5.250 o	5.250 e	5.250 e				
Brazil	0.721 e	0.721 e	0.721 e	3.930 e	4.091 e	7.212 e	7.227 e	7.241 o	7.241 o	7.241 o
Colombia	1.322	1.383	1.418	1.463	1.520	1.520	3.5//	7.4/3	7160 0	14.621 e
Ecuador Falklands Malv	0.080	0.400 o	1.940	1.940 0.070 o	2.010 0.070 o	2.010 0.070 o	3.169 o 0.070 o	3.169 o 0.070 e	3.169 o 0.070 e	3.192 o 0.070 e
Fr Guiana	0.161 o	0.161 o	0.161 o	0.070 0 0.161 o	0.070 d	0.070 o	0.070 d	0.070 e	0.070 e	0.070 e
Guyana	0.975	1.016	1.061	1.476	1.652	1.665	1.684	1.808	1.808 e	1.808 e
Paraguay	0.005 o	0.057 o	0.057 e	0.057 e						
Peru	22.566 e	28.525 e	34.484 e	38.914 e	46.147 e	53.379 e	39.675	45.746	45.746 e	45.746 o
Suriname	0.661 e	0.943 e	1.195 e	1.195 e	1.660	2.632	3.226	3.226	3.882	3.882 e
Uruguay	0.500	0.520	0.540	0.561	1.127	1.675	2.273	3.933	4.509 o	4.509 e
Venezuela	2.300	2.300	3.400	3.400	3.400	3.400	3.000 e	3.000 o	3.000 e	3.000 e

Other renewable energy Autres énergies renouvelables Otras energías renovables

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	3 675.911	3 787.832	4 432.269	4 701.757	4 869.624	4 254.216	4 474.530	4 337.649	4 437.013	4 471.272
Africa	85.356	91.476	116.436	118.306	120.667	123.536	124.026	124.131	124.131	144.131
Algeria			10.200	10.200	10.200	10.200 e	10.000 e	10.000 e	10.000 e	10.000 e
Burkina Faso		0.150 u	0.150 u	0.150 u	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e	0.150 e
Burundi	4.000 e	4.000 o	4.000 e	4.000 e	4.000 e					
Chad					1.100 u	1.100 e	1.100 e	1.100 e	1.100 o	1.100 e
Congo DR	0.160 e	2.160 e	2.960 e	2.960 e	2.960 e	2.960 e				
Djibouti										20.000 u
Egypt	5.000 o	5.000 o	5.000 e							
Eritrea	0.825 e	0.825 e	0.825 e							
Ethiopia Gabon				1.200 e	0.006 u 1.200 e	0.006 e 1.200 e	0.006 e 1.200 e	0.006 e 1.200 e	0.006 1.200 e	0.006 1.200 e
Ghana	6.774 e	6.774 e	8.274 e	8.294 e	8.294 e					
Kenya	0.554 e	0.774 e	0.554 e	0.604 e	0.604 e	0.294 e	0.604 e	0.604 e	0.604 e	0.604 e
Madagascar	0.341 o	0.411 e	0.411 e	0.411 e	0.411 e	0.411 e				
Mali	32.000 e	32.000 o	40.000 e	40.000 e	40.000 e	40.000 u	40.000 e	40.000 e	40.000 e	40.000 e
Mauritania		4.400 o	4.400 e	4.400 e	4.400 e	4.400 e				
Morocco	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000 e	5.000 e	5.000 e
Namibia	0.002 u	0.011 u	0.011 e	0.011	0.011 e	0.011 e				
Nigeria	6.000 e	7.500 e	9.000 e	9.000 e	10.230 e	10.230 e	10.230 e	10.335 e	10.335 e	10.335 e
Somalia	2.200 u	2.200 u	2.200 u	2.800 u	2.800 u	3.550 u	3.550 e	3.550 e	3.550	3.550 e
Tanzania	22.500 o	22.500 o	26.260 u	26.260 e	26.285 e	26.285 e				
Asia	3 297.156	3 352.652	3 937.448	4 196.444	4 348.500	3 709.985	3 905.160	3 744.282	3 832.636	3 846.890
Afghanistan	0.100 u	0.100 e	0.100 e	0.100 e						
Bangladesh	3.750 o	4.420 o	5.120 o	6.650 o	7.050 o	7.050 o	7.050 e	7.050 o	7.350 o	7.350 e
Cambodia	2.250 e	2.250 e	2.250 e	3.750 e	3.750 e					
China	173.530	210.530	249.130	297.730	342.690	370.390	401.150	431.910 e	462.670 o	493.430 e
India	540.025 o	584.028 o	736.305 o	785.371 o	843.616 o	849.946 e	896.347 e	866.629 e	963.869 e	963.869 e
Indonesia	1884.000 o	1 615.000 o	1626.000 o	1626.000 o		1669.000 e	1685.260 e	1 687.260 e	1 718.820 e	1 718.820 e
Korea DPR	0.200 u	0.600 o	0.600 e	0.600 e	0.600 e	0.600 e				
Lao PDR	504000				4047.000	574.040	0.290 o	0.290 o	0.290 o	0.290 o
Malaysia	504.860 o	732.530 o	1100.000 o	1237.800 o	1243.000 o	531.640 o	531.640 e	531.640 e	531.640 e	531.640 e
Mangalia	1.407 u 1.006 e	1.407 u 1.006 e	1.407 e 1.006 o	1.407 e 1.006 e	1.407 e 1.000	1.407 e 0.994 e				
Mongolia Myanmar	44.542 e	48.626 e	52.375 e	47.875 e	49.221 e	51.618 e	56.308 e	58.358 e	58.358 e	58.358 e
Nepal	44.542 C	0.069 u	0.069 u	0.069 u	0.069 u	0.069 e	0.169 o	0.199 o	0.199 e	0.199 e
Pakistan	U.561 e	U.5/9 e	1.253 e	1.255 E	1.253 E	1.253 e				
Philippines Viet Nam	15.925 u 125.000 e	20.925 e 131.000 e	20.925 e 142.000 e	20.925 e 167.000 e	29.830 e 193.000 e	29.830 e 193.000 e	29.830 e 289.000 e	45.830 o 107.000 e	45.830 e 35.500 e	45.830 e 19.000 e
C America + Carib	43.358	46.551	46.834	43.539	41.541	46.639	48.687	54.987	54.987	54.987
Belize	0.020 u	0.020 u	0.020 e							
Costa Rica						4.500	4.500	4.500	4.500 e	4.500 e
Dominica	0.010 o	0.010 e	0.010 e	0.010 e						
Dominican Rep	15.828 e	16.121 e	16.390 e	16.895 e	17.211 e	17.309 e	17.431 e	17.431 e	17.431 e	17.431 e
Haiti нопguras			U.UI4 e	U.U14 e	U.UI4 e	U.U14 e	0.024 u 0.014 e	0.024 e	0.024 e	0.024 e
Nicaragua			0.014 6	0.014 6	0.014 e	0.014 e	1.912 e	6.314 e 1.912 e	6.314 e 1.912 e	6.314 e 1.912 e
Panama	27.500	30.300	30.300	26.500	24.000	24.500 o	24.500 e	24.500 e	24.500 e	24.500 o
St Lucia	27.000	00.000	00.000	20.000	0.176 e	0.176 e	0.176 e	0.176 e	0.176 e	0.176 e
US Virgin Is		0.100 o	0.100 o	0.100 o		0.100 o	0.100 e	0.100 e	0.100 e	0.100 e
Middle East	1.100	5.000	6.000	6.000	6.000	6.000	6.000	6.000	6.010	6.015
Jordan	1.100	5.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010 o	0.015 0.010 o
Kuwait		2.400 u	2.400 e	2.400 e	2.400 e					
Lebanon	0.500 u	2.400 u 2.000 u	3.000 u	3.000 e	3.000 e	3.000 e				
Syrian AR	0.600 d	0.600 d	0.600 d	0.600 e	0.600 e	0.600 e				
Yemen	0.000 €	0.000 €	0.000 €	0.000 €	0.000 €	0.000 €	0.000 €	0.000 €	0.000 €	0.005 o
Oceania	73.212	75.124	75.124	75.084	75.084	75.084	75.085	75.085	75.085	75.085
Fiji	0.018 u	0.024 e	0.024 e	0.024 e						
Fr Polynesia	0.248 e	0.024 u 0.248 e	0.024 u 0.248 e	0.024 u 0.248 e	0.024 u 0.248 e	0.024 u 0.248 e	0.024 u 0.248 e	0.024 e	0.024 e	0.024 e 0.248 e
Marshall Is	0.240 €	0.240 €	0.246 6	0.240 €	0.240 €	0.246 6	0.248 e	0.248 e	0.248 e	0.248 e
Papua N Guin	72.406 u	74.312 e	74.312 e	74.312 e						
Solomon Is	0.500 e	0.500 e	0.500 e	0.500 u	0.500 u	0.500 u	0.500 u	0.500 e	0.500 e	0.500 e
Vanuatu	0.040 e	0.040 e	0.040 e							
S America	175.729	217.029	250.427	262.384	277.832	292.972	315.572	333.164	344.164	344.164
Argentina	0.069 o	0.069 o	0.077 o	0.104 o	0.092 o	0.092 e	0.092 e	7.424 o	7.424 e	7.424 e
Bolivia	60.170	60.170	90.500	99.000	99.000	99.000	117.500 o	122.500 o	133.500	133.500 e
Colombia	0.059 o	0.099 o	0.099 o	0.059 e	0.059 e	0.059 e				
Ecuador	2.400	2.400	4.650 o	4.650 o	4.650 o	4.650 o	4.650 e	4.650 o	4.650 o	4.650 o
Falklands Malv	0.340 e	0.340 e	0.340 e	0.340 o	0.340 o	0.340 o	0.340 o	0.340 e	0.340 e	0.340 e
Fr Guiana	47 20F	47 70F	A7 71E	/Z Z /E	77 005	77 OOF	74 405	3.100 o	3.100 e	3.100 o
Guyana Peru	43.285 39.400 o	43.305 39.400 o	43.315 39.400 o	43.345 41.300	33.805 66.300 o	33.805 76.300 o	34.405 74.400 e	34.405 74.400 e	34.405 e 74.400 e	34.405 e 74.400 o
reiu	33.400 0	33.400 0	33.400 0	+1.500	30.300 0	70.300 0	,4.400 e	,4.400 e	,4.400 e	,4.400 0

Other renewable energy Autres énergies renouvelables Otras energías renovables

CAP (MW)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
South Georgia	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006 e	0.006 e
Suriname				1.500	1.500	1.500	1.500 e	1.500 e	1.500 e	1.500 e
Uruguay			0.800 e	0.800 e	0.800 e	5.900 e	11.300 e	13.500 e	13.500 e	13.500 e
Venezuela	30.000	71.280 u	71.280 e	71.280 e						

Other indicators

Autres indicateurs

Otros indicadores

Renewable energy share of electricity capacity La part d'énergie renouvelable dans la puissance installée Proporción de energía renovable en la capacidad eléctrica

•										
%	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
World	26.2	27.3	28.3	29.6	30.8	32.1	33.2	34.6	36.6	38.3
Africa	18.8	19.0	19.6	20.1	20.1	21.2	21.7	21.8	22.6	23.1
Affica	10.0	19.0	19.0	20.1	20.1	21.2	21.7	21.0	22.0	23.1
Algeria	1.9	1.7	1.7	1.8	2.5	3.4	3.2	2.9	2.8	2.6
Angola	51.5	44.5	43.9	42.9	56.0	56.8	59.6	61.8	64.0	64.0
Benin	8.0	0.4	0.7	1.7	1.7	1.7	1.9	1.1	1.1	1.1
Botswana	0.5	0.5	0.2	0.2	0.4	0.4	0.4	0.6	0.6	0.6
Burkina Faso	10.3	15.0	13.3	12.1	12.8	21.6	24.7	22.4	22.4	22.4
Burundi	78.4	73.7	73.7	73.8	74.2	53.2	53.2	53.2	53.2	53.2
Cabo Verde	21.0	23.3	23.3	18.7	18.9	18.9	20.0	20.1	20.1	20.1
Cameroon Cent Afr Rep	66.5 50.2	57.7 50.2	57.8 46.5	55.5 46.5	55.6 46.5	51.3 46.5	51.4 46.5	54.0	54.0	53.9 21.0
Chad	0.7	50.2 0.7	46.5 0.7	46.5 0.8	46.5 1.1	46.5 1.1	46.5 1.2	46.6 1.2	46.6 1.3	1.3
Comoros	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Congo DR	99.0	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
Congo Rep	32.7	32.7	32.7	32.7	33.4	34.7	34.7	34.7	27.5	27.5
Cote d Ivoire	42.3	39.6	37.0	34.1	32.1	40.8	40.9	40.0	40.0	40.0
Djibouti	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	14.2
Egypt	11.0	10.6	10.6	10.4	9.5	8.4	8.6	9.7	10.1	10.4
Eq Guinea	36.1	36.1	36.1	36.1	33.8	31.7	31.7	31.7	31.7	31.7
Eritrea	0.6	0.6	5.9	5.2	5.4	5.1	8.3	9.2	10.1	11.0
Eswatini	94.9	94.9	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.8
Ethiopia	91.7	92.1	92.1	94.8	96.4	97.8	98.1	97.7	97.8	97.9
Gabon	38.0	54.8	55.3	55.2	53.0	53.5	54.4	54.4	54.4	54.4
Gambia	3.9 49.4	3.3 56.6	3.5 56.7	3.6 57.1	3.6 46.2	3.6 41.4	3.2 40.9	3.2 32.3	3.2 31.7	2.7 31.7
Ghana Guinea	49.4 59.8	56.6 38.5	56.7 38.5	57.1 61.8	46.2 62.8	41.4 61.1	40.9 60.7	32.3 60.0	51.7 55.4	31.7 73.0
Guinea Bissau	33.0	30.3	30.3	1.1	1.1	1.1	4.0	4.0	4.0	4.0
Kenya	65.3	65.5	65.6	65.8	66.2	67.5	71.8	71.9	74.9	76.0
Lesotho	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Liberia	4.3	4.2	4.2	4.2	21.0	49.1	49.1	49.1	49.1	49.1
Libya	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Madagascar	30.3	30.6	24.9	25.2	25.4	23.6	24.1	24.1	24.1	24.1
Malawi	91.6	91.6	93.0	93.3	93.3	91.2	74.2	76.8	76.9	78.9
Mali	50.8	52.1	51.3	51.0	47.1	44.9	44.9	44.9	48.1	49.8
Mauritania		9.1	8.8	11.3	14.3	14.3	21.2	20.8	20.8	19.5
Mauritius	18.4	18.8	20.8	22.0	23.7	23.8	27.3	28.7	28.7	28.7
Mayotte	14.3	14.4	14.5	14.2	11.9	13.3	13.3	13.3	15.4	15.4
Morocco Mozambique	23.8 97.3	24.9 97.3	26.7 97.2	28.2 90.1	29.1 78.4	28.7 81.8	29.8 79.0	30.5 79.0	32.6 79.0	33.0 79.0
Namibia	65.6	65.9	62.4	62.7	67.7	70.0	79.0	73.1	73.2	73.2
Niger	1.5	1.9	2.3	2.7	3.0	2.6	7.4	7.1	7.1	7.1
Nigeria	23.4	21.3	20.2	20.2	17.1	17.0	16.4	16.4	16.3	16.4
Reunion	42.6	40.2	43.9	45.3	45.5	45.5	45.7	48.3	49.1	49.8
Rwanda	51.8	53.5	59.0	52.5	54.5	52.7	54.6	56.6	58.2	58.2
Sao Tome Prn	7.9	8.1	6.9	6.4	6.5	5.5	5.6	5.6	5.6	5.6
Senegal	5.4	5.4	5.6	5.5	8.7	15.8	15.0	20.6	26.8	30.3
Seychelles		6.5	7.2	7.6	6.7	6.9	7.7	7.7	7.8	11.2
Sierra Leone	59.9	59.9	66.7	55.4	55.5	57.5	49.1	41.7	41.7	41.7
Somalia	2.7	2.7 3.3	2.8 5.8	3.6	8.5	11.5 12.3	9.6	9.6	16.0	20.4
South Africa South Sudan	2.3 0.2	0.2	0.2	7.2 0.2	9.3 0.5	0.3	14.3 0.5	14.4 0.5	16.6 0.5	17.6 0.8
Sudan	46.3	46.4	46.5	46.5	46.1	46.2	47.4	47.7	48.2	48.4
Tanzania	39.9	38.4	40.0	41.6	38.4	38.5	34.0	34.1	34.2	34.2
Togo	28.0	28.0	28.1	28.4	28.5	28.6	28.9	29.5	29.7	35.9
Tunisia	5.6	6.0	6.2	6.6	6.5	6.5	7.3	7.2	7.0	6.7
Uganda	83.7	88.2	84.9	85.2	85.2	85.8	89.8	92.0	92.1	92.1
Zambia	95.7	97.0	94.2	93.1	83.8	82.2	82.3	82.9	82.9	83.7
Zimbabwe	41.6	41.8	41.8	42.2	42.4	42.5	49.8	49.9	50.0	50.2
A -:-	22.2	04.4	25.0	27.7	20.7	70.5	71.0	77.	75.0	77.7
Asia	22.6	24.4	25.9	27.3	28.7	30.5	31.8	33.1	35.8	37.7
Afghanistan	55.1	55.4	55.8	56.1	59.6	60.0	60.0	56.8	56.8	57.3
Bangladesh	2.8	2.9	2.8	2.7	2.6	2.7	2.2	2.2	2.2	2.4
Bhutan	99.4	99.3	99.3	99.3	99.5	99.5	99.5	99.7	99.6	99.6
Brunei Darsm	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Cambodia	44.1	61.0	63.5	57.9	57.2	55.2	63.3	60.6	55.8	57.4
China	26.3	28.5	30.3	31.7	33.1	35.2	36.6	37.7	40.8	42.9
Chinese Taipei	6.8	7.2	7.7	8.3	8.9	10.0	11.3	13.3	16.0	18.6
India	23.3	22.5	22.9	22.7	24.8	27.1	28.1	29.0	29.9	31.5
Indonesia	15.9 13.1	15.7 15.1	15.4 17.7	15.7 20.8	15.5 22.7	15.2 24.8	15.1 26.5	14.8 28.8	14.4 30.1	15.1 31.1
Japan Kazakhstan	12.6	15.1 12.7	17.7 13.4	20.8 13.5	22.7 13.3	24.8 13.6	26.5 13.3	28.8 16.1	30.1 18.6	31.1 24.4
Korea DPR	59.0	59.2	59.3	60.3	61.5	61.8	59.0	59.0	59.4	59.4
Korea Rep	4.2	4.7	5.7	7.0	8.3	9.2	10.8	13.5	14.9	17.1
Kyrgyzstan	79.4	81.8	82.3	85.3	85.3	85.4	85.3	85.3	85.3	85.3
Lao PDR	100.0	100.0	100.0	77.7	72.4	73.4	74.6	77.2	80.4	81.9
Malaysia	14.7	18.7	21.6	24.2	25.7	22.2	22.6	21.9	23.2	23.0
Maldives	1.9	2.2	3.6	4.2	4.0	5.4	3.3	4.0	5.1	5.8
Mongolia	3.7	7.4	7.4	7.4	8.3	13.8	18.3	18.7	18.7	18.1
Myanmar	75.5	72.6	68.9	65.7	65.6	59.1	54.9	53.6	45.3	45.2
Nepal	93.1	93.4	93.6	94.0	94.1	94.9	95.4	95.9	96.3	97.5
Pakistan	29.8	31.0	31.6	31.6	33.5	29.1	32.8	31.4	31.7	31.4

Renewable energy share of electricity capacity La part d'énergie renouvelable dans la puissance installée Proporción de energía renovable en la capacidad eléctrica

%	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Philippines	29.0	27.2	28.5	29.1	28.2	28.0	27.6	26.4	26.5	27.6
Singapore	1.3	1.4	1.6	1.9	2.3	2.4	2.8	3.9	4.6	5.4
Sri Lanka	49.9	52.3	45.4	47.4	48.6	49.8	51.5	51.1	52.6	53.9
Tajikistan	93.8	93.8	92.3	92.3	87.5	87.5	87.8	88.0	88.0	88.0
Thailand	17.1	19.8	20.6	21.2	21.8	20.7	21.8	22.3	22.1	21.7
Timor Leste	0.6	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Turkmenistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan Viet Nam	13.9 43.7	14.0 45.7	14.2 45.5	13.3 42.7	13.1 42.8	12.6 41.7	13.5 41.2	12.0	12.5 55.8	12.9 56.1
								47.7		
C America + Carib	25.7	25.9	26.8	29.5	32.1	33.7	34.2	36.1	37.1	37.7
Anguilla Antiqua Barb	0.2 0.4	0.2 0.3	4.0 0.3	4.0 2.8	7.3 4.2	7.3 5.1	4.6 9.7	6.0 9.7	6.0 16.9	6.0 16.9
Aruba	11.0	11.2	12.9	13.2	13.2	13.2	13.3	12.9	12.9	12.9
Bahamas	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3
Barbados	0.6	0.7	2.5	3.5	7.4	7.8	7.6	11.6	15.8	15.8
Belize	52.8	53.7	53.9	54.3	58.5	60.3	60.4	52.3	52.8	52.8
BES Islands	36.9	36.9	36.9	37.5	41.2	39.3	38.2	39.6	39.6	39.6
Br Virgin Is	1.4	1.4	1.4	1.8	1.8	1.2	1.2	1.2	1.2	1.2
Cayman Is					1.7	5.2	5.8	6.4	7.3	7.8
Costa Rica	77.6	77.8	78.3	79.6	83.5	86.0	86.2	86.9	86.8	87.1
Cuba Curacao	10.4 11.4	9.1 12.3	9.6 13.8	10.0 22.4	9.4 22.8	10.4 29.3	11.4 23.1	16.6 23.1	18.8 25.7	19.1 25.7
Dominica	25.9	25.9	25.9	25.9	27.0	27.0	26.1	26.1	24.8	24.8
Dominican Rep	13.4	13.5	13.5	14.3	16.7	17.6	19.9	24.9	26.0	26.7
El Salvador	58.7	56.3	57.2	55.0	56.5	60.7	62.9	66.3	67.4	67.4
Grenada	0.7	1.1	1.5	2.1	4.2	4.3	4.8	5.8	6.6	6.2
Guadeloupe	28.9	29.8	25.2	27.5	26.4	27.0	27.6	30.9	31.3	32.5
Guatemala	54.3	55.4	57.5	58.3	63.2	67.4	69.6	69.7	69.7	69.7
Haiti	13.4	12.9	13.0	13.0	13.0	13.1	17.1	17.1	17.1	17.1
Honduras	43.4	46.2	46.6	59.9	60.1	62.1	63.0	63.0	64.7	64.8
Jamaica	9.9	10.6	10.8	10.8	17.5	19.5	19.5	18.8	17.5	17.5
Martinique	13.8	11.8	13.3	14.0	14.3	14.6	20.7	23.7	24.0	24.2
Montserrat Nicaragua	42.8	43.1	44.9	45.6	47.3	45.4	45.5	3.5 45.2	3.5 45.2	12.6 38.2
Panama	61.2	59.8	59.9	63.1	63.7	64.5	54.5	56.0	61.8	69.1
Puerto Rico	4.0	4.8	4.9	6.9	7.4	7.9	7.9	8.4	9.1	10.8
St Barth					0.1	0.1	0.1	0.1	0.1	0.1
St Kitts Nevis	3.7	4.3	6.1	5.8	6.2	5.8	5.8	5.8	5.8	5.8
St Lucia	0.1	0.1	0.1	0.9	1.1	1.1	4.3	4.3	4.3	4.3
St Martin		4.4	5.0	7.9	3.1	0.2	0.2	0.9	0.9	0.9
St Vincent Gren	10.6	11.8	11.8	12.2	12.8	13.0	13.0	13.9	13.9	13.9
Trinidad Tobago Turks Caicos	0.1	0.1	0.1	0.2 0.0	0.2 0.0	0.2 0.2	0.2 0.5	0.2 1.0	0.2 1.0	0.2 1.0
US Virgin Is	0.2	0.3	1.6	2.8	2.9	2.1	3.0	3.0	3.0	3.0
Eurasia	25.2	25.4	24.6	26.0	25.5	26.2	27.0	27.5	28.5	29.5
Armenia	30.9	31.6	31.7	36.5	36.9	37.2	37.8	38.3	39.1	40.5
Azerbaijan	16.0	15.0	15.2	14.8	15.0	15.0	16.3	16.9	17.0	17.1
Georgia	79.6	79.8	80.6	76.0	76.1	77.5	77.4	78.9	73.8	74.4
Russian Fed	21.3	21.0	19.8	20.5	19.5	19.5	19.5	19.7	20.0	20.4
Turkey	38.9	39.9	40.2	43.1	43.9	45.5	47.7	48.6	51.3	53.3
Europe	36.3	38.1	39.3	41.2	42.8	44.4	45.4	47.8	49.8	52.1
Albania	94.4	94.8	94.6	94.8	95.1	95.4	95.5	95.6	95.9	95.9
Andorra	100.0	100.0 72.1	100.0	100.0	96.2	96.8	96.8 79.5	96.9	96.9	97.0 80.9
Austria Belarus	72.0 0.6	0.8	73.4 0.8	74.7 1.0	76.7 2.2	78.6 2.9	79.5 3.8	80.2 4.1	80.3 4.8	5.2
Belgium	24.6	27.5	28.6	30.1	31.4	33.6	36.4	39.8	43.9	46.8
Bosnia Herzg	43.7	42.8	43.0	43.1	40.8	41.3	42.3	42.9	43.8	36.3
Bulgaria	34.4	35.2	36.2	37.9	38.6	39.5	38.1	38.5	39.7	40.2
Croatia	55.5	57.6	58.5	56.9	57.6	58.7	59.5	65.1	69.8	71.1
Cyprus	10.0	11.3	12.8	13.9	14.3	15.5	16.1	17.7	21.1	24.5
Czechia	19.5	19.4	19.0	19.3	19.2	19.2	19.1	19.8	20.6	21.1
Denmark Estania	42.3	47.7 17.8	49.5	50.8	52.1	57.2	59.4	59.3	60.4	63.9
Estonia Faroe Islands	15.1 41.4	43.7	18.5 48.0	20.7 46.4	23.6 46.3	24.2 46.3	21.6 44.8	26.1 40.4	30.3 36.0	35.2 36.0
Finland	32.9	32.8	35.1	36.7	41.0	43.4	43.7	44.8	49.9	52.2
France	28.4	29.8	31.2	32.4	33.7	35.9	37.4	39.2	40.7	42.7
Germany	43.8	45.2	45.7	48.1	50.2	52.3	52.0	54.0	56.4	60.5
Greece	37.0	40.7	42.4	43.0	44.0	44.7	46.1	48.5	52.5	54.5
Hungary	7.7	8.9	11.8	12.5	12.0	13.8	17.5	22.9	28.2	28.2
Iceland	95.7	95.9	95.9	95.8	97.0	97.1	97.2	97.3	97.3	97.3
Ireland	23.1	25.1	28.0	28.5	31.1	34.6	36.8	40.7	42.2	42.5
Italy Kosovo*	37.5 4.6	39.2	40.7	43.1	44.8	45.6	46.1	46.7	47.7	48.7 15.0
Kosovo* Latvia	4.6 64.0	4.6 60.6	4.6 60.8	4.6 60.8	8.2 60.7	8.6 61.1	8.6 61.0	9.7 62.1	9.6 62.0	15.8 59.6
Lithuania	10.5	12.1	13.4	19.1	20.7	23.4	24.5	25.5	28.0	35.4
Luxembourg	10.4	11.6	11.1	11.8	17.6	18.6	18.9	21.7	23.8	24.9
Malta	2.9	4.8	8.5	11.7	17.1	16.5	18.8	21.3	24.6	25.4
Moldova Rep	2.1	2.2	2.3	2.3	2.3	2.7	3.5	3.6	3.7	4.2

Renewable energy share of electricity capacity La part d'énergie renouvelable dans la puissance installée Proporción de energía renovable en la capacidad eléctrica

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%	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montenegro	74.2	74.2	74.9	75.2	75.4	76.9	77.0	78.0	78.5	78.5
Netherlands	11.6	13.7	14.7	16.9	21.0	23.4	28.1	33.9	43.7	49.1
North Macedonia	35.1	36.0	38.8	40.0	39.5	39.8	40.1	40.5	42.8	46.6
Norway	95.4	95.5	95.7	95.7	97.0	97.0	97.1	97.2	97.4	97.5
Poland	11.6	14.3	15.7	18.5	20.7	18.6	19.3	21.5	24.9	29.9
Portugal	55.5	59.0	60.5	61.9	64.1	64.7	64.9	65.4	65.6	70.6
Romania	38.6	44.2	46.9	47.3	47.6	47.5	47.6	53.7	54.3	56.5
Serbia	33.3	32.8	33.4	33.4	33.7	33.4	35.2	36.9	37.0	34.8
Slovakia	27.8	27.9	29.4	30.6	31.0	31.1	30.6	31.5	30.8	30.8
Slovenia	38.1	39.8	40.7	42.3	39.9	40.9	38.8	39.5	41.0	39.9
Spain	44.2	44.2	44.1	44.7	45.1	46.2	46.5	49.8	53.0	55.7
Sweden	64.2	65.0	65.9	67.7	69.0	70.8	70.8	72.8	74.9	76.4
Switzerland	75.7	76.1	76.4	76.7	78.0	78.9	79.2	79.5	81.4	81.8
UK	16.6	21.4	25.8	32.0	35.9	38.2	40.7	44.6	45.1	46.5
Ukraine	9.5	10.3	10.7	10.8	10.7	12.2	14.2	21.7	23.9	25.2
European Union (27)	69.3	70.4	71.2	72.4	73.2	74.2	75.1	76.3	78.0	79.6
Middle East	5.8	5.7	5.9	5.6	5.7	5.7	6.2	6.9	7.1	7.4
Bahrain	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Iran IR	14.3	14.8	15.0	14.0	14.1	14.4	14.3	14.3	14.0	13.8
Iraq	13.4	8.5	9.0	7.4	7.2	6.1	5.9	5.9	5.5	5.3
Israel	2.1	2.8	3.9	4.7	5.3	5.9	7.5	11.0	12.7	13.1
Jordan	0.5	0.5			12.0					33.9
			0.4	3.5		14.5	19.2	27.2	33.3	
Kuwait	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.5	0.5	0.5
Lebanon	8.7	8.1	8.1	8.1	8.6	8.8	9.4	9.9	9.9	10.9
Oman		0.0	0.0	0.0	0.0	0.1	0.1	0.5	1.3	1.6
Palestine	0.4	0.4	2.1	7.0	13.5	18.1	20.1	33.9	42.3	42.3
Qatar	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
Saudi Arabia	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.6
Syrian AR	10.4	10.4	15.6	17.3	15.5	15.4	14.9	14.9	14.8	14.8
United Arab Em	0.0	0.4	0.5	0.5	0.5	1.1	1.9	5.8	6.6	7.4
Yemen	0.1	0.2	0.3	3.8	5.0	6.2	14.1	13.4	13.4	12.7
N America	20.8	21.6	22.4	24.0	25.4	26.3	27.2	28.6	30.2	32.1
Canada	63.3	64.6	65.5	66.3	66.4	66.8	67.1	67.1	66.8	68.3
Greenland	48.7	48.7	48.7	48.7	48.7	48.7	48.8	48.8	48.8	48.8
Mexico	23.1	23.7	25.1	25.7	26.2	26.2	27.6	31.4	31.4	32.6
St Pierre Mg	2.3	2.3	20	20.7	20.2	20.2	27.0	0	0	02.0
USA	15.4	16.0	16.8	18.2	19.8	20.9	21.9	23.3	25.3	27.5
Oceania	28.6	30.1	31.1	32.5	34.3	36.0	37.6	41.7	45.1	45.6
Amer Samoa	6.6	6.6	6.6	6.6	10.6	9.7	11.5	11.5	11.5	11.5
Australia	22.5	24.3	25.5	26.9	28.8	30.8	32.9	37.8	42.2	42.8
Cook Is	0.8	5.6	11.8	17.8	14.3	14.3	20.6	20.6	20.6	20.6
Fiji	62.6	61.3	61.3	55.8	56.1	57.8	58.1	55.2	55.2	56.1
Fr Polynesia	22.5	23.5	25.6	26.4	27.4	28.3	28.8	29.7	29.7	29.7
Guam	0.1	0.2	0.3	6.1	7.4	6.7	6.7	7.7	7.7	7.7
Kiribati	7.1	7.1	10.3	26.1	30.4	30.4	30.4	30.4	30.4	30.4
Marshall Is	1.6	2.2	3.4	3.4	5.3	5.3	5.3	5.3	5.3	5.3
Micronesia	1.8	2.2	4.4	4.4	6.2	6.2	12.2	12.3	12.3	12.3
Nauru	0.7	2.1	1.8	1.8	5.7	4.1	4.7	11.1	11.1	11.1
New Caledon	21.2	18.2	12.9	13.1	13.3	14.9	15.1	17.9	19.6	19.6
New Zealand	70.2	72.3	72.9	75.9	77.4	77.4	77.5	77.6	76.7	77.0
Niue	2.6	2.6	14.1	14.1	14.1	14.1	14.1	31.1	31.1	31.1
Palau	1.7	1.9	2.8	2.8	3.8	3.8	5.0	5.2	5.2	5.2
Papua N Guin	36.0	36.0	34.9	35.2	35.1	34.1	34.1	32.3	30.9	30.9
Samoa	26.7	22.2	28.4	31.0	34.5	45.7	45.8	47.3	47.9	47.9
Solomon Is	2.7	2.5	3.5	4.1	5.4	5.5	5.4	5.4	5.4	5.4
Tokelau	86.8	86.8	86.8	86.8	87.8	87.8	87.8	88.0	88.0	88.0
Tonga	8.3	11.7	8.6	14.0	16.4	26.7	26.8	30.5	30.5	30.0
Tuvalu	3.9	3.9		28.1	41.5	41.5	41.7	41.7	42.4	42.4
Vanuatu			5.0							
variuatu	22.6	22.7	25.7	25.9	28.8	30.0	35.5	34.1	34.2	34.2
S America	64.3	63.6	64.2	64.5	65.4	66.1	67.0	67.4	67.7	68.5
Argentina Polivia	32.8	33.0	32.4	31.2	30.9	29.3	29.4	31.5	33.1	34.6
Bolivia	30.2	29.5	27.9	26.3	27.3	31.6	35.7	30.1	30.3	31.3
Brazil	79.5	78.8	79.5	80.0	80.8	81.4	83.2	83.3	83.0	83.2
Chile	39.9	42.5	42.9	42.6	41.2	45.7	46.8	47.8	50.7	54.1
Colombia	68.1	68.1	70.5	70.0	70.0	70.2	68.7	68.6	68.9	67.9
Ecuador	43.4	43.4	42.6	43.3	56.4	58.6	60.8	60.8	60.8	60.3
Falklands Malv	26.0	26.0	26.0	23.9	23.9	23.9	23.9	23.9	23.9	23.9
Fr Guiana	58.1	58.2	54.2	53.2	50.6	47.7	47.8	48.2	47.6	47.6
Guyana	15.5	14.7	15.5	16.7	15.1	14.5	14.9	14.8	14.8	14.8
Paraguay	99.9	99.8	99.8	99.8	100.0	100.0	100.0	99.7	99.7	99.7
Peru	39.7	35.6	37.3	39.3	40.3	40.7	41.5	42.5	42.7	43.0
South Georgia	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
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Suriname	43.4	37.7	35.9	36.1	36.1	35.9	36.1	36.1	35.7	33.2
Uruguay	63.0	61.2	65.7	71.9	83.0	81.7	75.8	75.8	75.9	75.9
Venezuela	52.9	49.3	48.9	48.8	50.8	50.7	50.4	49.6	49.6	49.6

