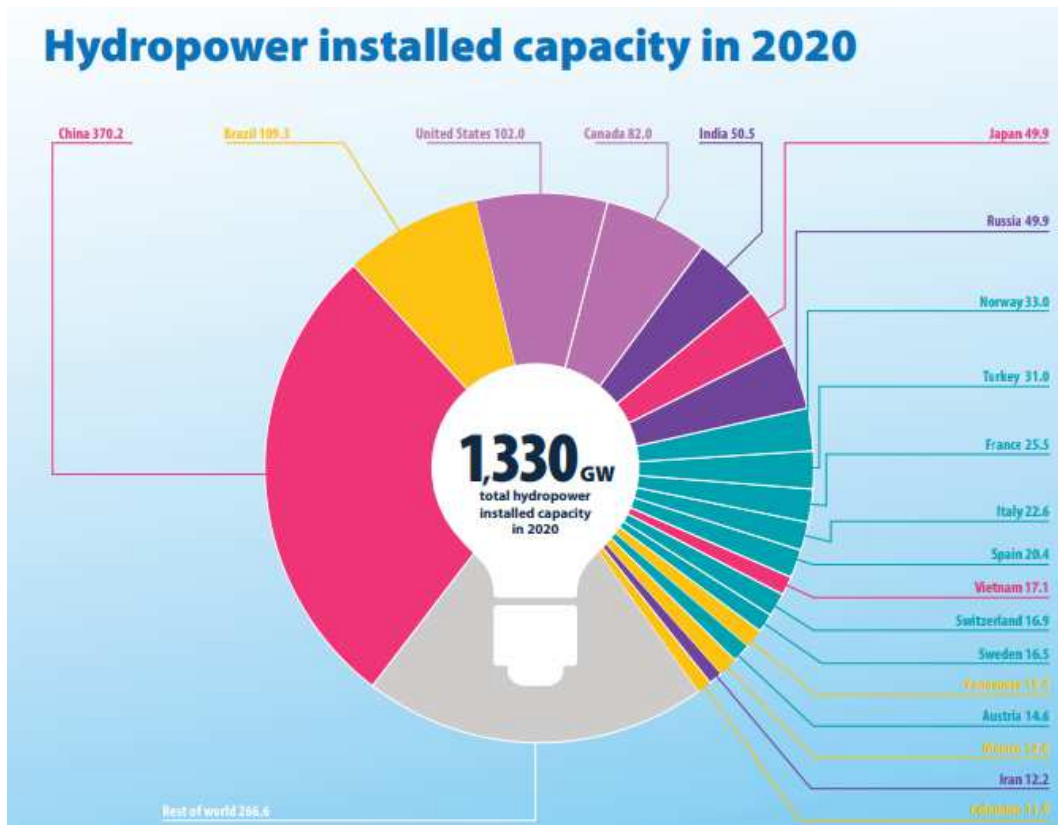


Situación de la energía hidráulica a nivel mundial 2020

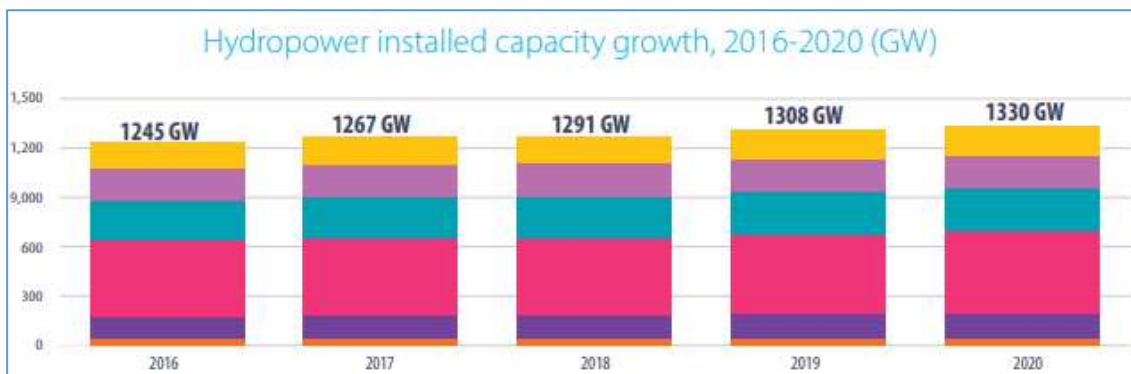
La Asociación Internacional de Hidroelectricidad ha presentado su informe [Hydropower Status Report 2021](#). El año pasado se pusieron en funcionamiento aproximadamente 21 GW de nueva capacidad instalada hidroeléctrica (incluyendo las centrales hidroeléctricas de almacenamiento por bombeo), lo que eleva la capacidad instalada total del mundo a 1.330 GW. Durante 2019 se habían puesto en marcha 15,6 GW.

El siguiente gráfico muestra la capacidad hidráulica instalada total en GW incluyendo las centrales de bombeo de los 20 países principales, en 2020.



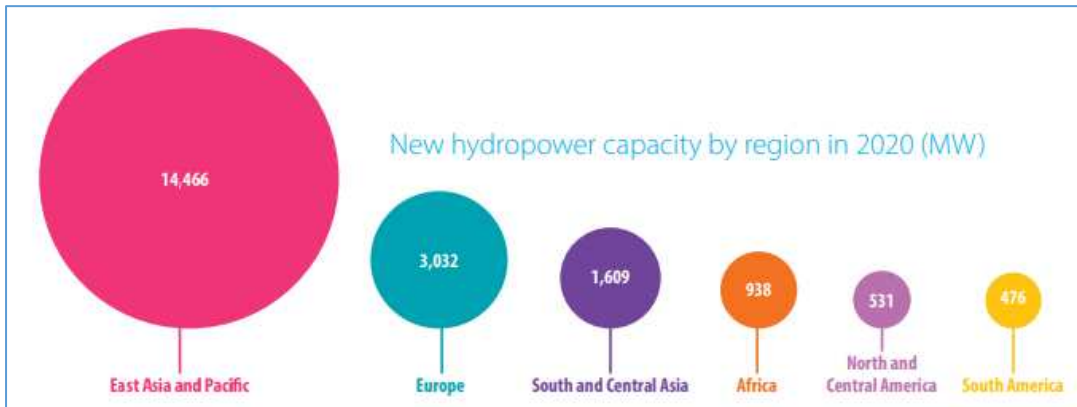
Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

El aumento de 21 GW en la capacidad total instalada de energía hidroeléctrica en 2020 representó un incremento del 1,6% respecto al año anterior. En comparación, el crecimiento medio interanual de la capacidad instalada en los cinco años entre 2016 y 2020 fue del 1,8%.



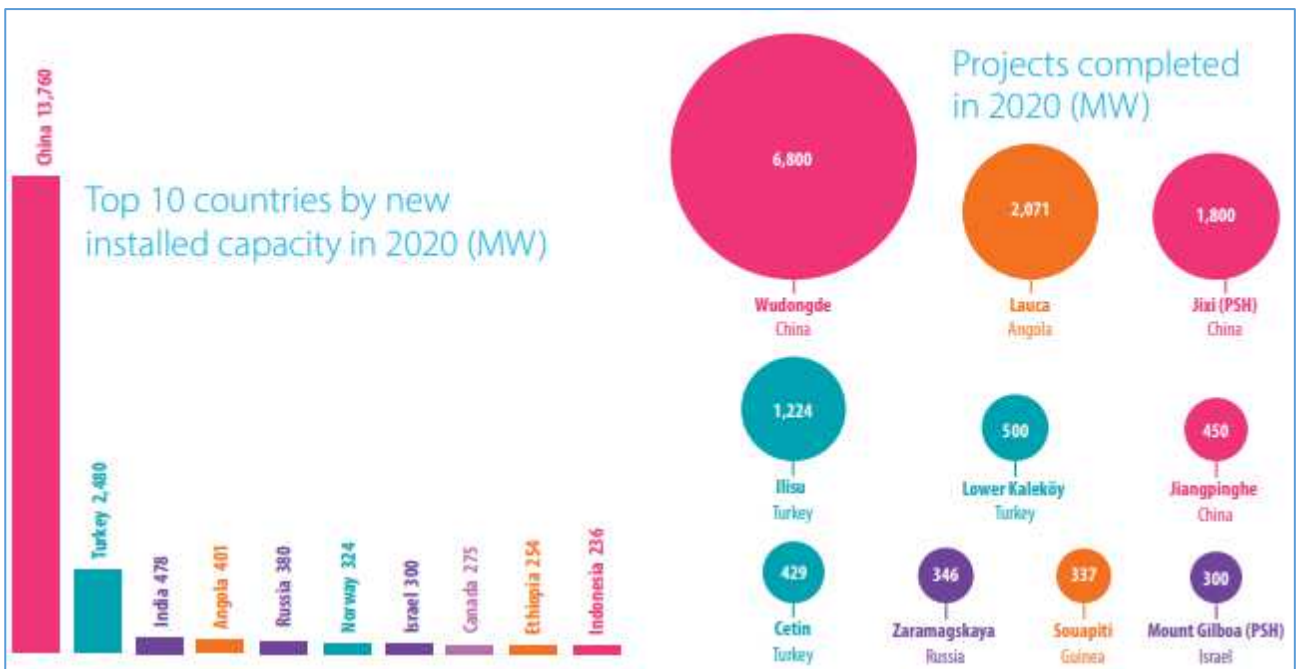
Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

La región de Asia oriental y el Pacífico una vez más mantuvo su posición como la de mayor crecimiento el año pasado, con 14,5 GW de nueva capacidad instalada de energía hidroeléctrica. Le siguieron Europa (3 GW), Asia Central y del Sur (1,6 GW), África (0,94 GW), América del Norte y Central (0,53 GW) y Sudamérica (0,47 GW).



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Como se puede ver en la tabla de la página siguiente, treinta y cinco países agregaron nueva capacidad instalada de energía hidroeléctrica en 2020. Los países con los mayores incrementos individuales en la capacidad instalada fueron China (13,76 GW) y Turquía (2,48 GW).



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

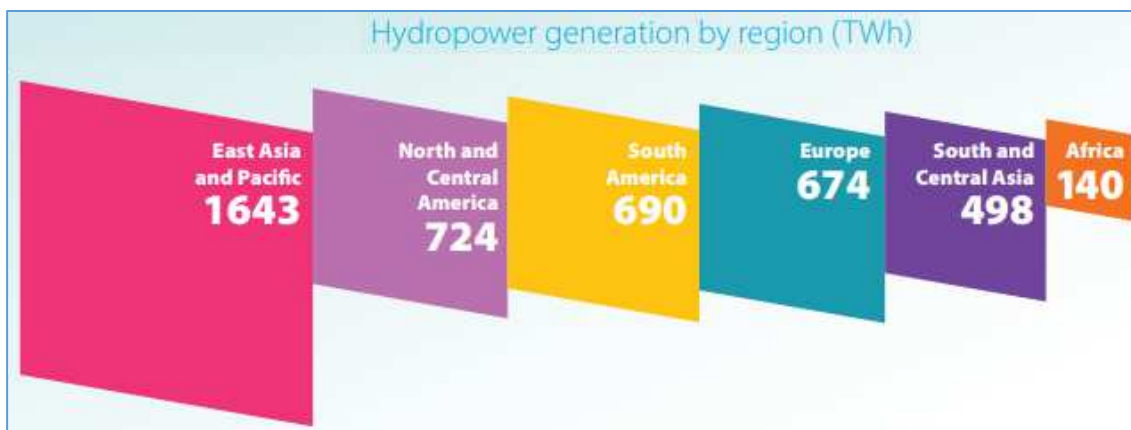
Nueva capacidad instalada por país (incluyendo centrales de bombeo)

Ranking	Country	Capacity added (MW)	Ranking	Country	Capacity added (MW)	Ranking	Country	Capacity added (MW)
1	China	13,760	13	Chile	205	25	Cameroon	30
2	Turkey	2,480	14	Albania	197	26	Argentina	30
3	India	478	15	Georgia	178	27	Madagascar	28
4	Angola	401	16	Laos	176	28	Kazakhstan	26
5	Russia	380	17	Dominican Republic	123	29	Serbia	25
6	Norway	324	18	Japan	111	30	United States	24
7	Israel	300	19	Honduras	108	31	Colombia	24
8	Canada	275	20	Pakistan	102	32	Finland	6
9	Ethiopia	254	21	Malaysia	101	33	Thailand	3
10	Indonesia	236	22	Viet Nam	80	34	Peru	2
11	Guinea	225	23	Nepal	74	35	Guyana	2
12	Brazil	213	24	Uzbekistan	71			

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Una fuente limpia de electricidad

La energía hidroeléctrica es la fuente más grande del mundo de generación de electricidad renovable. En 2020, el sector hidroeléctrico generó un récord de 4.370 TWh de electricidad limpia en 2020, por encima del récord anterior de 4.306 TWh alcanzado en 2019. Para ponerlo en contexto, esto es aproximadamente lo mismo que todo el consumo de electricidad de Estados Unidos.

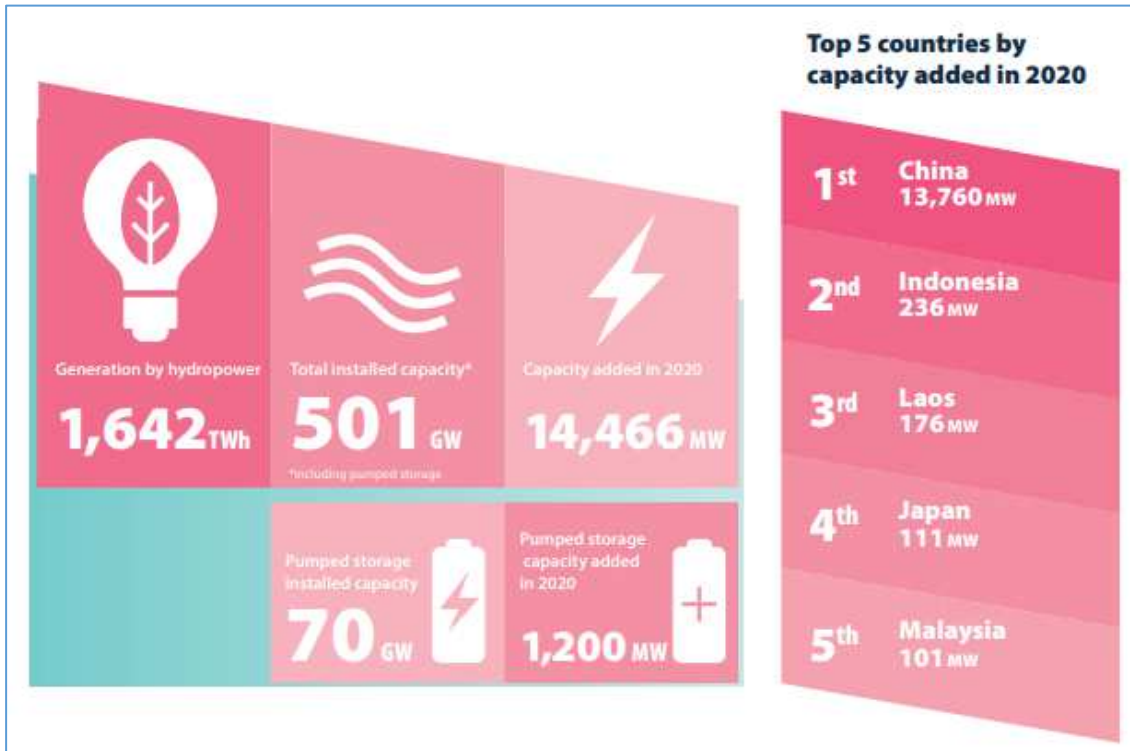


Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Como se ve en la imagen anterior, Asia oriental y el Pacífico, debido a la vasta contribución de la energía hidroeléctrica de China, sigue siendo la mayor región productora de energía hidroeléctrica gracias a su capacidad instalada, que asciende a 501 GW. África, en cambio, con su gran potencial hidroeléctrico sin explotar, tiene la menor capacidad instalada con 38 GW.

Anexo I. Detalle por región

Asia Oriental y el Pacífico



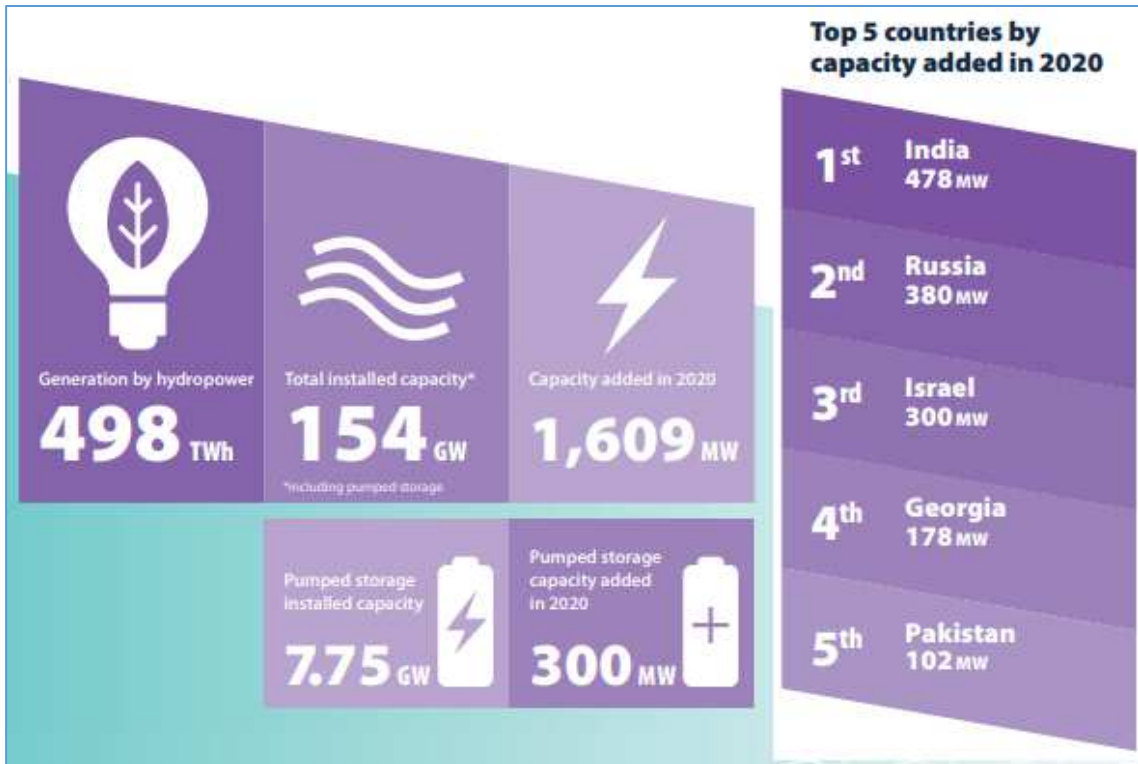
Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Ranking by total installed hydropower capacity					
Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*
1	China	370,760	12	Thailand	4,512
2	Japan	50,016	13	Philippines	4,385
3	Viet Nam	17,111	14	Myanmar	3,331
4	Australia	8,790	15	Cambodia	1,329
5	Laos	7,376	16	Papua New Guinea	234
6	South Korea	6,506	17	Fiji	125
7	Malaysia	6,275	18	New Caledonia	78
8	Indonesia	6,121	19	French Polynesia	47
9	New Zealand	5,354	20	Mongolia	23
10	North Korea	5,010	21	Samoa	12
11	Chinese Taipei (China)	4,694			

*including pumped storage

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Asia del Sur y Central



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

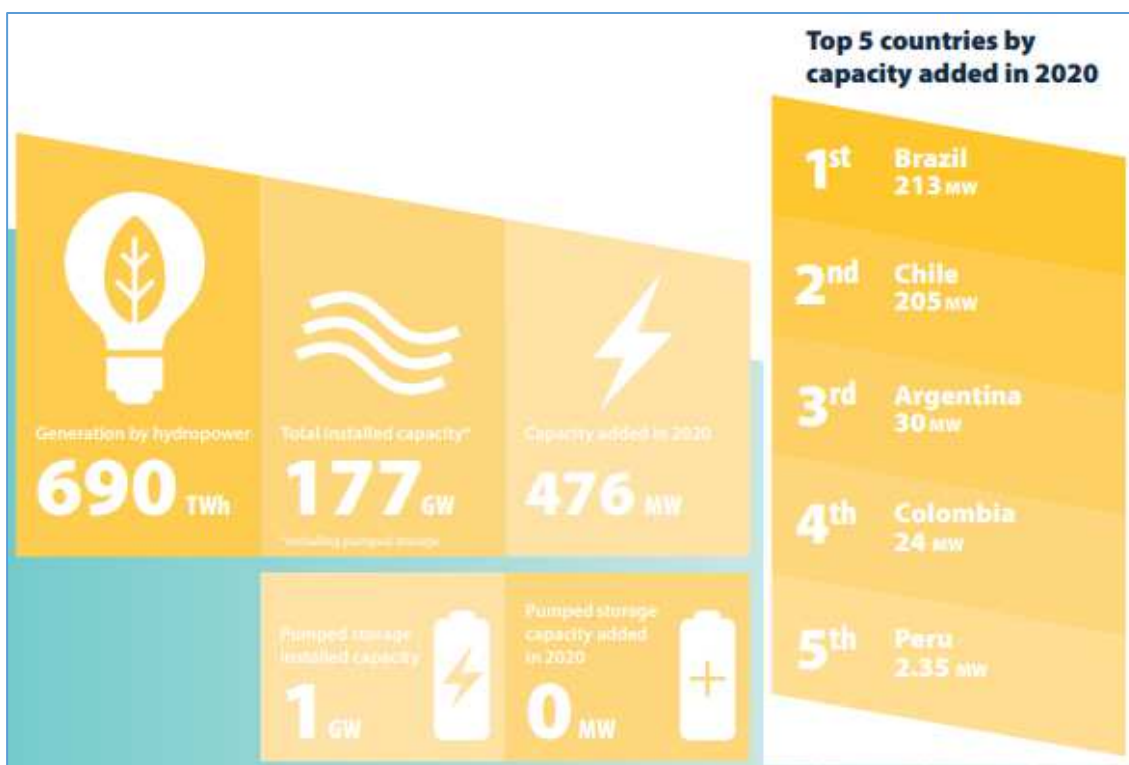
Ranking by total installed hydropower capacity

Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*
1	India	50,549	12	Sri Lanka	1,809
2	Russia	49,912	13	Syria	1,505
3	Iran	12,169	14	Armenia	1,293
4	Pakistan	9,929	15	Nepal	1,278
5	Tajikistan	6,395	16	Azerbaijan	1,131
6	Kyrgyzstan	3,892	17	Afghanistan	461
7	Georgia	3,449	18	Israel	307
8	Kazakhstan	2,730	19	Lebanon	282
9	Iraq	2,753	20	Bangladesh	230
10	Bhutan	2,326	21	Jordan	12
11	Uzbekistan	2,005	22	Turkmenistan	5

*including pumped storage

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

América del Sur



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

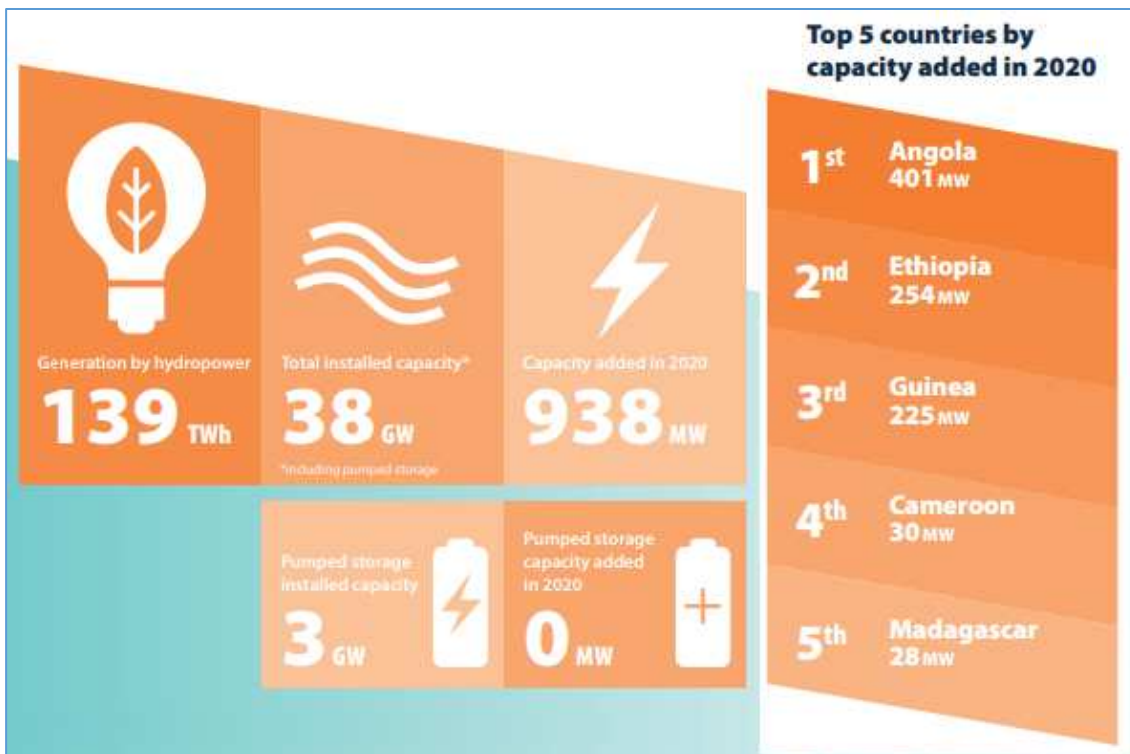
Ranking by total installed hydropower capacity

Rank	Country/Territory	Installed capacity (MW)*
1	Brazil	109,271
2	Venezuela	15,393
3	Colombia	11,941
4	Argentina	11,340
5	Paraguay	8,810
6	Chile	6,944
7	Peru	5,396
8	Ecuador	5,076
9	Uruguay	1,538
10	Bolivia	735
11	Suriname	190
12	French Guiana	119
13	Guyana	3

*including pumped storage

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

África



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

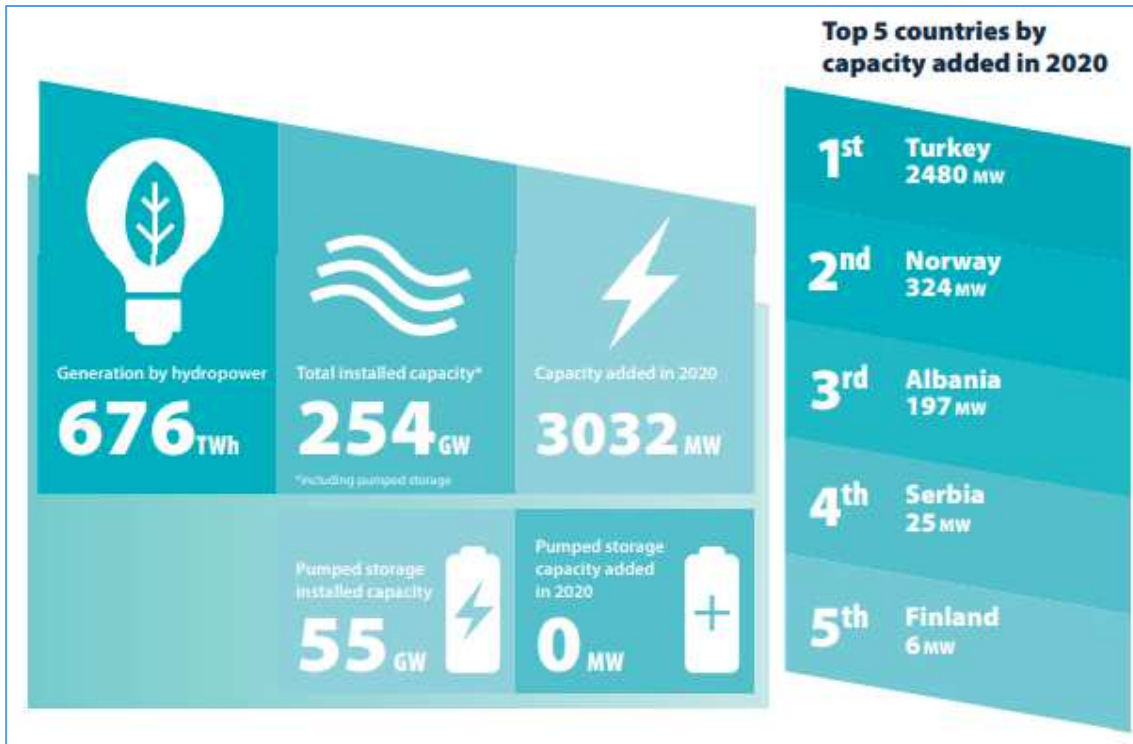
Ranking by total installed hydropower capacity

Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*
1	Ethiopia	4,074	16	Cameroon	822	31	Lesotho	73
2	Angola	3,836	17	Guinea	706	32	Tunisia	66
3	South Africa	3,596	18	Tanzania	596	33	Sierra Leone	64
4	Egypt	2,876	19	Malawi	371	34	Mauritius	61
5	Democratic Republic of the Congo	2,760	20	Namibia	347	35	Eswatini	60
6	Zambia	2,400	21	Gabon	331	36	Burundi	57
7	Mozambique	2,216	22	Algeria	269	37	Togo	49
8	Nigeria	2,111	23	Mali	220	38	Mauretania	48
9	Sudan	1,923	24	Congo	218	39	Burkina Faso	34
10	Morocco	1,770	25	Madagascar	186	40	Benin	33
11	Ghana	1,584	26	Reunion	134	41	Central African Republic	19
12	Zimbabwe	1,091	27	Equatorial Guinea	128	42	Sao Tome And Principe	2
13	Uganda	1,040	28	Rwanda	111	43	Comoros	1
14	Cote D'Ivoire	879	29	Liberia	93			
15	Kenya	837	30	Senegal	81			

*including pumped storage

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Europa



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Ranking by total installed hydropower capacity

Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*
1	Norway	32,995	16	Bulgaria	3,129	31	Montenegro	658
2	Turkey	30,984	17	Serbia	3,123	32	Ireland	529
3	France	25,508	18	Slovakia	2,522	33	Belarus	97
4	Italy	22,593	19	Bosnia and Herzegovina	2,513	34	Kosovo	92
5	Spain	20,409	20	Albania	2,390	35	Greenland	91
6	Switzerland	16,881	21	Poland	2,385	36	Moldova	76
7	Sweden	16,478	22	Czech Republic	2,268	37	Hungary	56
8	Austria	14,597	23	Croatia	2,141	38	Andorra	45
9	Germany	11,022	24	Iceland	2,086	39	Faroe Islands	39
10	Portugal	7,191	25	Latvia	1,576	40	Netherlands	38
11	Romania	6,313	26	Slovenia	1,524	41	Liechtenstein	35
12	Ukraine	6,229	27	Belgium	1,427	42	Denmark	9
13	United Kingdom	4,712	28	Luxembourg	1,330	43	Estonia	8
14	Greece	3,400	29	Lithuania	1,016			
15	Finland	3,263	30	Macedonia	674			

*including pumped storage

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

América Central y del Norte



Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Ranking by total installed hydropower capacity					
Rank	Country/Territory	Installed capacity (MW)*	Rank	Country/Territory	Installed capacity (MW)*
1	United States	102,000	10	Nicaragua	137
2	Canada	82,000	11	Puerto Rico	100
3	Mexico	12,612	12	Cuba	68
4	Costa Rica	2,331	13	Haiti	60
5	Panama	1,786	14	Belize	55
6	Guatemala	1,559	15	Jamaica	30
7	Honduras	837	16	Guadeloupe	11
8	Dominican Republic	616	17	Dominica	7
9	El Salvador	575	18	Saint Vincent and The Grenadines	7

*including pumped storage

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Anexo II: Capacidad instalada y generación 2020

Mundo

	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
Total	1,330,106	159,494	4,370

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Asia Oriental y el Pacifico

Country/Territory	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
American Samoa	-	-	-
Australia	8,790	1,340	14.89
Brunei	-	-	-
Cambodia	1,330	-	3.49
China	370,160	31,490	1,355.20
Chinese Taipei	4,694	2,602	6.18
Cook Islands	-	-	-
Fiji	125	-	0.50
French Polynesia	47	-	0.18
Guam	-	-	-
Hong Kong	-	-	-
Indonesia	6,121	-	18.63
Japan	50,016	27,637	89.17
Kiribati	-	-	-
Laos	7,376	-	19.2
Macau	-	-	-
Malaysia	6,275	-	15.8
Marshall Islands	-	-	-
Micronesia, Federated States Of	-	-	-
Mongolia	23	-	0.09
Myanmar	3,331	-	11
Nauru	-	-	-
New Caledonia	78	-	0.22
New Zealand	5,354	-	23.98
Niue	-	-	-
North Korea	5,010	-	12.20
Papua New Guinea	234	-	0.80
Philippines	4,385	685	7.79
Samoa	12	-	0.04
Singapore	-	-	-
Solomon Islands	-	-	-
South Korea	6,506	4,700	7.10
Thailand	4,513	1,000	4.54
Timor-leste	-	-	-
Tonga	-	-	-
Tuvalu	-	-	-
Vanuatu	-	-	-
Viet Nam	17,111	-	51.98
Total	501,490	69,454	1,643

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Asia del Sur y Central

Country	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
Afghanistan	461	-	0.62
Armenia	1,293	-	2.50
Azerbaijan	1,131	-	1.03
Bahrain	-	-	-
Bangladesh	230	-	0.61
Bhutan	2,326	-	8.95
Georgia	3,449	-	8.25
India	50,549	4,786	155.00
Iran	12,169	1,040	27.70
Iraq	2,753	240	1.80
Israel	307	300	0.02
Jordan	12	-	0.03
Kazakhstan	2,730	-	9.90
Kuwait	-	-	-
Kyrgyzstan	3,892	-	14.80
Lebanon	282	-	0.97
Nepal	1,278	-	3.00
Oman	-	-	-
Pakistan	9,929	-	37.38
Qatar	-	-	-
Russia	49,912	1,385	196.00
Saudi Arabia	-	-	-
Sri Lanka	1,809	-	4.90
Syria	1,505	-	0.75
Tajikistan	6,395	-	17.00
Turkmenistan	5	-	-
United Arab Emirates	-	-	-
Uzbekistan	2,005	-	6.90
Total	154,421	7,751	498.11

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

América del Sur

Country	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
Argentina	11,340	974	30.35
Bolivia	735	-	2.94
Brazil	109,271	30	409.50
Chile	6,945	-	20.79
Colombia	11,941	-	45.82
Ecuador	5,076	-	24.79
French Guiana	119	-	0.44
Guyana	3	-	-
Paraguay	8,810	-	49.34
Peru	5,396	-	29.04
Suriname	190	-	1.36
Uruguay	1,538	-	3.95
Venezuela	15,393	-	72.00
Total	176,757	1,004	690

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

África

Country	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
Algeria	269	-	0.09
Angola	3,836	-	10.08
Benin	33	-	0.06
Botswana	-	-	-
Burkina Faso	34	-	0.11
Burundi	57	-	0.22
Cameroon	822	-	5.88
Cape Verde	-	-	-
Central African Republic	19	-	0.15
Chad	-	-	-
Comoros	1	-	-
Congo	218	-	1.07
Cote D'Ivoire	879	-	2.31
Democratic Republic of the Congo	2,760	-	9.19
Djibouti	-	-	-
Egypt	2,876	-	12.09
Equatorial Guinea	128	-	0.12
Eritrea	-	-	-
Eswatini	60	-	0.16
Ethiopia	4,074	-	13.56
Gabon	331	-	1.74
Gambia	-	-	-
Ghana	1,584	-	7.21
Guinea	706	-	2.47
Guinea-bissau	-	-	-
Kenya	837	-	3.52
Lesotho	73	-	0.50
Liberia	93	-	0.53
Libya	-	-	-
Madagascar	186	-	0.81
Malawi	371	-	1.30
Maldives	-	-	-
Mali	220	-	0.95
Mauritania	48	-	0.21
Mauritius	61	-	0.10
Morocco	1,770	465	1.55
Mozambique	2,216	-	14.17
Namibia	347	-	0.95
Niger	-	-	-
Nigeria	2,111	-	6.10
Reunion	134	-	0.49
Rwanda	111	-	0.45
Sao Tome And Principe	2	-	0.01
Senegal	81	-	0.31
Seychelles	-	-	-
Sierra Leone	64	-	0.18
Somalia	-	-	-
South Africa	3,596	2,912	5.67
South Sudan	-	-	-
Sudan	1,923	-	7.75
Tanzania	596	-	2.35
Togo	49	-	0.09
Tunisia	66	-	0.06
Uganda	1,040	-	4.03
Western Sahara	-	-	-
Yemen	-	-	-
Zambia	2,400	-	13.67
Zimbabwe	1,091	-	7.26
Total	38,174	3,377	139.54

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Europa

Country	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
Albania	2,390	-	5.28
Andorra	45	-	0.12
Austria	14,597	5,596	42.52
Belarus	97	-	0.43
Belgium	1,427	1,307	1.29
Bosnia and Herzegovina	2,513	420	6.10
Bulgaria	3,129	1,404	3.37
Croatia	2,141	293	3.40
Cyprus	-	-	-
Czechia	2,268	1,171	3.40
Denmark	9	-	0.02
Estonia	8	-	0.04
Faroe Islands	39	-	0.11
Finland	3,263	-	15.56
France	25,508	5,837	64.84
Germany	11,022	6,364	24.75
Gibraltar	-	-	-
Greece	3,400	703	3.43
Greenland	91	-	0.50
Hungary	56	-	0.24
Iceland	2,086	-	12.46
Ireland	529	292	1.21
Italy	22,593	7,685	47.72
Kosovo	92	-	0.26
Latvia	1,576	-	2.59
Liechtenstein	35	-	0.12
Lithuania	1,016	900	1.06
Luxembourg	1,330	1,296	1.09
Macedonia	674	-	1.24
Malta	-	-	-
Moldova	76	-	0.20
Monaco	-	-	-
Montenegro	658	-	1.80
Netherlands	38	-	0.05
Norway	32,995	1,439	141.69
Poland	2,385	1,290	2.93
Portugal	7,193	2,820	13.96
Romania	6,313	92	15.53
San Marino	-	-	-
Serbia	3,123	639	9.66
Slovakia	2,522	1,017	4.67
Slovenia	1,524	180	5.24
Spain	20,409	6,117	33.34
Sweden	16,478	99	71.60
Switzerland	16,881	3,029	40.62
Turkey	30,984	-	77.39
Ukraine	6,229	1,563	4.85
United Kingdom	4,712	2,833	7.64
Total	254,454	54,876	674

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

América Central y del Norte

Country	Total installed capacity including pumped storage (MW)	Pumped (MW)	Generation (TWh)
Anquilla	-	-	-
Antigua and Barbuda	-	-	-
Aruba	-	-	-
Bahamas	-	-	-
Barbados	-	-	-
Belize	55	-	0.08
Bermuda	-	-	-
Canada	82,000	177	383.00
Cayman Islands	-	-	-
Costa Rica	2,331	-	8.29
Cuba	68	-	0.06
Dominica	7	-	0.04
Dominican Republic	616	-	0.12
El Salvador	575	-	1.99
Grenada	-	-	-
Guadeloupe	11	-	0.03
Guatemala	1,559	-	5.77
Haiti	60	-	0.13
Honduras	837	-	2.70
Jamaica	30	-	0.16
Martinique	-	-	-
Mexico	12,612	-	23.12
Montserrat	-	-	-
Nicaragua	157	-	0.57
Panama	1,786	-	7.25
Puerto Rico	100	-	0.05
Saint Bartholemy	-	-	-
Saint Kitts And Nevis	-	-	-
Saint Lucia	-	-	-
Saint Pierre And Miquelon	-	-	-
Saint Vincent And The Grenadines	7	-	0.04
Trinidad And Tobago	-	-	-
Turks And Caicos Islands	-	-	-
United States	102,000	22,855	291.00
Virgin Islands, British	-	-	-
Virgin Islands, U.S.	-	-	-
Total	204,811	23,032	724

Fuente: <https://www.hydropower.org/publications/2021-hydropower-status-report>

Fuente:

<https://www.hydropower.org/publications/2021-hydropower-status-report>