

Table E1.cap. Electricity installed generating capacity: World, Reference case

gigawatts

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	391	378	223	148	111	100	96	-4.9%
Natural gas	1,931	2,044	2,166	2,255	2,411	2,601	2,781	1.3%
Coal	2,271	2,319	2,179	2,185	2,210	2,245	2,275	0.0%
Nuclear	400	425	422	446	451	456	468	0.6%
Renewables	3,297	4,075	5,016	5,729	6,554	7,433	8,244	3.3%
Hydro	1,211	1,317	1,376	1,415	1,437	1,468	1,501	0.8%
Wind	873	1,030	1,325	1,554	1,818	2,019	2,107	3.2%
Geothermal	15	17	27	30	33	34	35	3.1%
Solar	1,019	1,506	2,071	2,505	3,025	3,666	4,348	5.3%
Other	179	205	218	225	239	246	253	1.2%
Battery storage	52	70	126	241	388	664	945	10.9%
Pumped hydro	169	200	211	213	213	213	213	0.8%
Total capacity	8,511	9,512	10,344	11,216	12,339	13,712	15,022	2.0%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run r_230822.081459 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding.