

Table E3.gen. Electricity generation: United States, Low Zero-carbon Technology Cost case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	11	10	7	7	6	4	4	-3.8%
Natural gas	1,686	1,409	1,059	847	900	825	633	-3.4%
Coal	849	774	302	217	181	115	49	-9.7%
Nuclear	772	782	758	674	549	457	686	-0.4%
Renewables	1,003	1,365	2,439	3,040	3,364	3,843	4,177	5.2%
Hydro	276	299	290	283	279	259	257	-0.3%
Wind	440	513	1,071	1,334	1,419	1,525	1,475	4.4%
Geothermal	16	17	19	22	27	31	37	3.1%
Solar	205	468	992	1,338	1,579	1,954	2,326	9.1%
Other	67	68	66	62	61	75	82	0.7%
Net generation to grid	4,321	4,340	4,565	4,785	4,999	5,244	5,548	0.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lz_230821.151531 and Annual Energy Outlook 2023 (March 2023), www.eia.gov/aeo

Note: Totals may not equal sum of components due to independent rounding. Net generation to grid represents gross generation minus losses from thermal efficiency and parasitic load.