

Table E3.gen. Electricity generation: United States, Reference case

billion kilowatthours

Fuel								Average annual percentage change, 2020–2050
	2020	2025	2030	2035	2040	2045	2050	
Liquid fuels	16	10	9	8	8	6	6	-3.1
Natural gas	1,636	1,551	1,562	1,584	1,706	1,840	1,953	0.6
Coal	774	706	696	654	620	593	593	-0.9
Nuclear	785	745	630	609	595	599	594	-0.9
Renewables	850	1,324	1,578	1,794	1,942	2,104	2,312	3.4
Hydro	283	295	295	295	294	294	294	0.1
Wind	343	630	673	731	748	762	790	2.8
Geothermal	16	19	25	32	40	45	50	3.9
Solar	132	297	497	643	762	899	1,071	7.2
Other	76	83	87	94	99	104	108	1.2
Net generation to grid	4,061	4,336	4,475	4,650	4,871	5,142	5,458	1.0

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run r_210719.163829; and EIA, *Annual Energy Outlook 2021*, (February 2021), www.eia.gov/aeo

Notes:

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

* *Net generation to grid* represents gross generation less losses from thermal efficiency and parasitic load.