

Table E21.gen. Electricity generation: Middle East, High Zero-carbon Technology Cost case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	300	307	164	77	34	13	3	-15.2%
Natural gas	990	1,031	1,031	1,164	1,258	1,353	1,424	1.3%
Coal	0	0	0	0	0	0	0	-6.2%
Nuclear	24	41	58	73	83	83	83	4.6%
Renewables	42	96	155	169	177	189	197	5.7%
Hydro	23	25	27	29	29	29	29	0.8%
Wind	3	19	37	40	40	42	42	10.4%
Geothermal	0	0	0	0	0	0	0	0.0%
Solar	16	51	91	100	108	117	125	7.5%
Other	0	0	0	0	0	0	1	--
Net generation to grid	1,357	1,475	1,408	1,484	1,552	1,637	1,706	0.8%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hz_230821.151430

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.