

Table E19.gen. Electricity generation: Africa and Middle East, High Economic Growth case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	348	354	180	80	35	13	3	-15.3%
Natural gas	1,349	1,398	1,443	1,710	1,942	2,176	2,406	2.1%
Coal	214	189	224	257	276	276	273	0.9%
Nuclear	37	54	87	116	135	135	135	4.8%
Renewables	269	413	588	709	843	1,035	1,252	5.6%
Hydro	188	238	261	295	334	370	423	2.9%
Wind	30	65	113	120	122	125	125	5.2%
Geothermal	6	6	32	46	63	63	63	8.6%
Solar	42	99	176	245	321	473	634	10.2%
Other	2	4	6	3	3	4	7	3.7%
Net generation to grid	2,217	2,408	2,522	2,873	3,230	3,635	4,069	2.2%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hm_230821.151836

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.