

Table E19.gen. Electricity generation: Africa and Middle East, Low Oil Price case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	348	354	179	80	35	13	3	-15.3%
Natural gas	1,349	1,398	1,419	1,604	1,771	1,918	2,038	1.5%
Coal	214	185	202	245	266	275	275	0.9%
Nuclear	37	54	87	116	135	135	135	4.8%
Renewables	269	403	566	656	737	895	1,040	4.9%
Hydro	188	233	250	274	292	338	372	2.5%
Wind	30	65	113	121	122	126	126	5.2%
Geothermal	6	6	33	46	63	63	63	8.6%
Solar	42	95	165	211	258	365	476	9.0%
Other	2	4	4	3	2	4	3	1.2%
Net generation to grid	2,217	2,394	2,454	2,701	2,944	3,236	3,491	1.6%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run Ip_230823.090253

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.