

Table E19.gen. Electricity generation: Africa and Middle East, High 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	1,465	1,717	1,922	2,103	2,261	1.9%
Coal	214	192	214	247	269	257	276	0.9%
Nuclear	37	54	87	116	135	135	135	4.8%
Renewables	269	403	571	669	752	907	1,087	5.1%
Hydro	188	233	255	280	293	327	382	2.6%
Wind	30	65	114	121	122	124	125	5.2%
Geothermal	6	6	33	46	63	63	63	8.6%
Solar	42	95	166	218	272	390	512	9.3%
Other	2	4	4	3	2	3	5	2.8%
Net generation to grid	2,217	2,401	2,516	2,830	3,113	3,414	3,762	1.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hp_230822.081357

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.