

Table E20.gen. Electricity generation: Africa, Reference case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	48	47	16	10	0	0	0	-16.3%
Natural gas	358	367	391	456	523	590	654	2.2%
Coal	214	189	215	270	243	275	275	0.9%
Nuclear	13	13	30	43	52	52	52	5.1%
Renewables	227	307	412	480	552	707	878	4.9%
Hydro	165	207	224	239	262	329	406	3.3%
Wind	28	46	76	81	82	83	83	4.0%
Geothermal	6	6	33	46	63	63	63	8.6%
Solar	26	44	75	107	142	229	322	9.4%
Other	2	3	3	7	2	3	4	1.6%
Net generation to grid	861	923	1,063	1,259	1,371	1,626	1,860	2.8%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run r_230822.081459

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.