

Table E20.gen. Electricity generation: Africa, Low Zero-carbon Technology Cost case

billion kilowatthours

Fuel	2022	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2022–2050
Liquid fuels	48	47	16	3	0	0	0	-16.5%
Natural gas	358	367	385	459	533	572	607	1.9%
Coal	214	184	200	227	269	247	223	0.2%
Nuclear	13	16	30	43	52	52	52	5.1%
Renewables	227	310	420	526	583	793	1,047	5.6%
Hydro	165	210	231	266	266	274	288	2.0%
Wind	28	47	76	85	89	120	147	6.1%
Geothermal	6	6	34	47	47	47	63	8.6%
Solar	26	44	76	125	181	352	545	11.5%
Other	2	3	3	2	0	0	3	0.9%
Net generation to grid	861	923	1,051	1,257	1,438	1,665	1,929	2.9%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run lz_230821.151531

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.