

Table E20.gen. Electricity generation: Africa, High 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	-16.4%
Natural gas	358	367	391	490	591	702	792	2.9%
Coal	214	190	222	241	249	275	276	0.9%
Nuclear	13	13	30	43	52	52	52	5.1%
Renewables	227	307	413	467	530	632	714	4.2%
Hydro	165	207	224	240	263	315	354	2.8%
Wind	28	46	76	81	82	83	83	4.0%
Geothermal	6	6	33	46	63	63	63	8.6%
Solar	26	44	75	98	121	167	211	7.8%
Other	2	3	5	2	2	5	3	0.5%
Net generation to grid	861	924	1,072	1,243	1,423	1,662	1,835	2.7%

Data source: U.S. Energy Information Administration, World Energy Projection System (2023), run hz_230821.151430

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.