

Table E17.gen. Electricity generation: Africa, Reference case

billion kilowatthours

Fuel								Average annual percentage change, 2020–2050
	2020	2025	2030	2035	2040	2045	2050	
Liquid fuels	65	66	22	5	0	0	0	-15.9
Natural gas	351	360	419	488	511	533	598	1.8
Coal	187	193	206	222	210	167	131	-1.2
Nuclear	13	13	30	43	52	52	52	4.8
Renewables	158	282	374	466	635	849	1,061	6.6
Hydro	130	171	176	187	209	255	342	3.3
Wind	13	52	86	95	108	121	133	8.0
Geothermal	5	17	37	48	64	69	69	9.2
Solar	9	38	72	131	248	398	510	14.6
Other	2	3	4	5	6	7	8	5.0
Net generation to grid	774	914	1,051	1,223	1,409	1,602	1,844	2.9

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run r_210719.163829.

Notes:

* Totals may not equal sum of components due to independent rounding.

* *Net generation to grid* represents gross generation less losses from thermal efficiency and parasitic load.