International Energy Outlook 2021

Release date: October 2021

Table E17.gen. Electricity generation: Africa, High Oil Price case

billion kilowatthours

Fuel	2020	2025	2030	2035	2040	2045
Liquid fuels	65	66	22	5	0	0
Natural gas	351	362	462	592	687	694
Coal	187	224	249	255	201	154
Nuclear	13	13	30	43	52	52
Renewables	158	282	378	489	707	1,060
Hydro	130	172	177	191	221	284
Wind	13	52	86	95	108	120
Geothermal	5	17	37	48	64	69
Solar	9	38	74	149	307	578
Other	2	3	5	6	7	8
Net generation to grid	774	948	1,141	1,384	1,648	1,960

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run hp_210719.163813.

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.

2050	Average annual percentage change, 2020–2050
0	-16.3
796	2.8
157	-0.6
62	5.4
1,325	7.3
393	3.8
131	8.0
69	9.2
722	15.9
10	5.9
2,340	3.8