

Table 1.1. Installed generating capacity by fuel type: Africa, Single Region case

gigawatts

Fuel	2019	2025	2030	2035	2040	2045	2050	Average annual percent change, 2019-2050
Liquids-fired	17.3	10.5	6.9	4.5	2.8	1.7	1.5	-7.6
Natural-gas-fired	91.1	80.2	89.1	104.7	104.8	104.9	121.9	0.9
Coal-fired	47.5	51.4	51.4	51.4	51.4	51.4	51.4	0.3
Nuclear	1.9	1.9	3.2	2.7	4.1	4.1	5.4	3.5
Renewables								
Biomass	0.7	1.4	2.5	2.5	2.8	2.9	3.0	4.6
Geothermal	0.7	2.3	4.9	6.5	8.5	9.1	9.1	8.8
Hydro	27.6	36.3	48.4	61.0	84.2	117.5	138.9	5.4
Solar	7.6	22.3	43.0	63.6	90.6	146.6	240.2	11.8
Waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	5.7	20.1	30.6	31.9	33.0	34.0	35.1	6.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total renewables	42.3	82.4	129.4	165.5	219.1	310.1	426.3	7.7
Total	199.9	226.3	279.9	328.7	382.1	472.1	606.5	3.6

Totals may not equal sum of components as a result of independent rounding.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2020)

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Table 1.2. Net electricity generation by fuel type: Africa, Single Region case

billion kilowatthours

Fuel	2019	2025	2030	2035	2040	2045	2050	Average annual percent change, 2019-2050
Liquids-fired	78.0	47.2	31.1	20.1	12.8	7.8	6.7	-7.6
Natural-gas-fired	292.3	258.5	289.6	410.3	410.9	349.7	391.2	0.9
Coal-fired	265.3	329.2	293.4	242.3	252.4	244.6	150.8	-1.8
Nuclear	12.9	12.9	22.4	18.9	28.4	28.4	37.8	3.5
Renewables								
Biomass	0.7	2.7	3.3	3.2	3.5	3.8	4.6	6.4
Geothermal	4.8	17.2	36.5	48.0	63.2	67.6	67.6	8.9
Hydro	116.8	153.3	199.3	258.3	360.8	505.3	577.2	5.3
Solar	15.1	47.0	94.1	141.7	205.5	337.7	558.3	12.4
Waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	17.8	57.5	87.5	91.6	94.7	98.0	101.7	5.8
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total renewables	155.1	277.6	420.6	542.9	727.6	1012.5	1309.4	7.1
Total	803.7	925.4	1057.1	1234.6	1432.1	1642.9	1895.9	2.8

Totals may not equal sum of components as a result of independent rounding.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2020)

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