

**Table 10.1. Installed generating capacity by fuel type: Africa South, Maximum Grid Expansion case**

gigawatts

fuel	2019	2025	2030	2035	2040	2045	2050	Average annual
								percent change, 2019-2050
<b>Liquids-fired</b>	4.8	4.3	2.7	1.6	0.9	0.6	0.6	-6.3
<b>Natural-gas-fired</b>	17.8	27.8	36.0	45.2	52.6	59.2	60.0	4.0
<b>Coal-fired</b>	43.3	47.2	47.2	47.2	47.2	48.4	68.7	1.5
<b>Nuclear</b>	1.9	1.9	3.2	2.7	4.1	4.1	5.4	3.5
<b>Renewables</b>								
Biomass	1.0	1.5	1.6	1.7	2.1	2.2	2.3	2.9
Geothermal	0.7	2.6	5.2	6.7	8.8	9.3	9.3	8.9
Hydro	20.5	25.5	33.9	43.7	54.5	70.4	72.1	4.1
Solar	3.4	12.5	15.9	19.6	28.6	34.1	34.9	7.8
Waste	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Wind	2.1	10.5	17.6	19.1	19.6	19.7	19.7	7.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total renewables	27.9	52.8	74.3	91.1	113.7	136.0	138.5	5.3
<b>Total</b>	95.6	133.9	163.4	187.8	218.4	248.2	273.3	3.4

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 10.2. Net electricity generation by fuel type: Africa South, Maximum Grid Expansion case**

billion kilowatthours

fuel	2019	2025	2030	2035	2040	2045	2050	Average annual
								percent change, 2019-2050
<b>Liquids-fired</b>	33.4	19.3	12.2	7.3	4.1	2.9	2.9	-7.6
<b>Natural-gas-fired</b>	57.1	89.4	115.5	145.1	168.7	189.9	192.6	4.0
<b>Coal-fired</b>	236.6	298.1	297.7	308.3	304.0	321.8	456.9	2.1
<b>Nuclear</b>	12.9	12.9	22.4	18.9	28.4	28.4	37.8	3.5
<b>Renewables</b>								
Biomass	0.0	1.2	2.9	3.2	3.2	3.9	5.5	infinity
Geothermal	4.8	19.1	38.3	49.8	65.0	69.4	69.4	9.0
Hydro	92.1	111.7	141.7	185.9	237.0	307.3	314.5	4.0
Solar	6.0	26.1	33.5	42.2	63.4	76.5	78.3	8.7
Waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	infinity
Wind	6.7	30.3	51.5	56.2	57.3	57.6	57.6	7.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total renewables	109.5	188.4	267.8	337.2	425.8	514.7	525.3	5.2
<b>Total</b>	449.6	608.2	715.6	816.9	931.0	1057.7	1215.6	3.3

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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