Table F17. Delivered energy consumption in Africa by end-use sector and fuel, High Economic Growth case

quadrillion British thermal units

Sector and fuel	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
Residential								
Liquid fuels	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.3
Natural gas	0.5	0.6	0.6	0.7	0.8	0.9	1.0	2.1
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
Electricity	0.8	1.1	1.3	1.7	2.0	2.5	3.0	4.3
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Total	2.2	2.4	2.8	3.3	3.7	4.2	4.9	2.7
Commercial								
Liquid fuels	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Coal	0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.0
Electricity	0.4	0.5	0.6	0.7	0.8	0.9	1.1	3.1
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Total	0.6	0.7	0.8	1.0	1.1	1.2	1.4	2.7
Industrial								=
Liquid fuels	1.4	1.7	2.0	2.3	2.8	3.3	3.8	3.3
Natural gas	2.1	2.5	2.9	3.4	4.1	4.8	5.4	3.3
Coal	1.6	1.9	2.2	2.5	3.0	3.5	4.0	3.1
Electricity	1.0	1.1	1.3	1.6	1.9	2.2	2.5	3.3
Renewables	3.3	3.8	4.5	5.4	6.4	7.5	8.6	3.2
Total	9.4	11.0	12.9	15.2	18.1	21.2	24.4	3.2
Transportation	<b>7.</b> 4	11.0	12.13	1312	1011			3.2
Liquid fuels	4.8	6.1	7.2	8.3	9.6	11.3	13.3	3.4
Natural gas	0.0	0.1	0.1	0.1	0.2	0.2	0.3	7.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.0	0.0	0.0	0.0	0.0	0.1	0.1	2.9
Renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	4.9	6.2	7.3	8.4	9.8	11.6	13.6	3.5
All end-use sectors	4.3	0.2	7.3	0.4	5.0	11.0	13.0	3.3
Liquid fuels	6.9	8.4	9.8	11.3	13.2	15.3	17.9	3.2
Natural gas	2.6	3.1	3.6	4.3	5.1	5.9	6.7	3.2
Coal	1.9	2.3	2.5	2.9	3.4	3.9	4.4	2.8
Electricity	2.3	2.7	3.3	4.0	4.7	5.6	6.7	3.7
Renewables	3.3	3.8	4.5	5.4	6.4	7.5	8.6	3.2
Delivered energy	17.1	20.4	23.8	27.9	32.7	38.3	44.3	3.2
Electricity-related losses	5.0	6.0	6.8	7.5	8.4	9.9	11.7	2.9
Discrepancy	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.7
Total	22.9	27.4	31.7	36.6	42.5	49.7	57.9	3.1
Electric power	22.3	27.4	31.7	30.0	42.3	43.7	57.5	3.1
·	0.7	0.7	0.2	0.0	0.0	0.0	0.0	15.1
Liquid fuels			0.2	0.0	0.0	0.0	0.0	-15.1
Natural gas Coal	3.1 1.9	3.2	3.9	4.3	4.6	4.5	5.1	1.7
		2.3	2.6	2.7	2.2	1.7	1.7	-0.3
Nuclear	0.1	0.1	0.3	0.4	0.5	0.5	0.6	6.0
Renewables	1.4	2.3	3.1	4.0	5.8	8.8	10.9	7.0
Total	7.2	8.7	10.1	11.5	13.1	15.5	18.4	3.2
Total energy consumption	2.4	40.4	44.0	42.4	44.3	46.6	40.0	
Liquid fuels	8.4	10.1	11.0	12.4	14.3	16.6	19.3	2.8
Natural gas	5.7	6.3	7.4	8.5	9.6	10.2	11.7	2.4
Coal	3.9	4.6	5.2	5.7	5.7	5.7	6.3	1.6

## Table F17. Delivered energy consumption in Africa by end-use sector and fuel, High Economic Growth case

quadrillion British thermal units

Sector and fuel	2020	2025	2030	2035	2040	2045	2050	Average annual percentage change, 2020–2050
Nuclear	0.1	0.1	0.3	0.5	0.6	0.6	0.7	6.0
Renewables	4.8	6.3	7.8	9.5	12.4	16.6	19.9	4.8
Total	22.9	27.4	31.7	36.6	42.5	49.7	57.9	3.1

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System (2021), run hm\_210719.163753; and EIA, Annual Energy Outlook 2021, (February 2021), www.eia.gov/aeo

Notes

<sup>\*</sup> Totals may not equal sum of components due to independent rounding.

<sup>\*</sup> End-use sector electricity consumption does not include electrical system energy losses incurred in the generation, transmission, and distribution of electricity.

<sup>\*</sup> End-use sector delivered energy consumption does not include electrical system energy losses incurred in the generation, transmission, and distribution of electricity.

<sup>\*</sup> Electricity-related losses include energy losses during generation due to thermal efficiency, energy losses during transmission and distribution, and parasitic load.