

Table F17. Delivered energy consumption in Africa by end-use sector and fuel, 2010-2040
(quadrillion Btu)

Sector/fuel	2010	Projections						Average annual percent change, 2010-2040
		2015	2020	2025	2030	2035	2040	
Residential								
Liquids	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.5
Natural gas	0.2	0.2	0.3	0.3	0.4	0.5	0.6	3.4
Coal	0.1	0.1	0.1	0.1	0.1	0.2	0.2	2.5
Electricity	0.6	0.7	0.8	1.0	1.2	1.4	1.7	3.5
Total	1.6	1.7	1.9	2.2	2.5	2.8	3.2	2.4
Commercial								
Liquids	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Coal	0.0	0.0	0.1	0.1	0.1	0.1	0.1	--
Electricity	0.3	0.3	0.4	0.5	0.6	0.8	1.0	4.1
Total	0.4	0.5	0.6	0.7	0.8	1.0	1.2	3.5
Industrial								
Liquids	1.5	1.7	1.8	1.9	2.2	2.6	3.0	2.2
Natural gas	1.6	1.7	2.0	2.3	2.7	3.1	3.5	2.7
Coal	1.6	1.5	1.8	2.0	2.2	2.6	2.9	2.1
Electricity	1.0	1.0	1.1	1.3	1.5	1.7	2.0	2.4
Total	8.4	8.6	9.8	10.9	12.5	14.4	16.6	2.3
Transportation								
Liquids	3.7	3.9	4.0	4.3	4.4	4.5	4.6	0.7
Natural gas	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3
Coal	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	0.0	0.0	--
Total	3.8	4.0	4.1	4.4	4.5	4.6	4.8	0.8
All end-use sectors								
Liquids	6.0	6.4	6.6	7.0	7.5	8.0	8.5	1.2
Natural gas	1.8	2.0	2.4	2.7	3.1	3.6	4.2	2.8
Coal	1.7	1.7	1.9	2.2	2.5	2.8	3.2	2.1
Electricity	1.9	2.0	2.4	2.8	3.3	4.0	4.7	3.1
Delivered energy	14.3	14.8	16.4	18.1	20.4	22.9	25.8	2.0
Electricity-related losses	4.7	4.9	5.5	6.2	7.0	8.1	9.2	2.3
Total	18.9	19.6	21.9	24.4	27.4	31.0	35.0	2.1
Electric power^a								
Liquids	0.8	0.8	0.7	0.7	0.7	0.6	0.6	-1.0
Natural gas	1.9	1.9	2.1	2.5	3.1	3.9	5.1	3.3
Coal	2.7	2.9	3.3	3.7	3.9	4.1	4.3	1.6
Nuclear	0.1	0.2	0.2	0.4	0.7	0.9	0.9	6.8
Total	6.6	6.9	7.9	9.0	10.4	12.0	13.9	2.5
Total energy consumption								
Liquids	6.9	7.2	7.3	7.7	8.1	8.6	9.1	1.0
Natural gas	3.7	3.9	4.5	5.2	6.2	7.6	9.3	3.1
Coal	4.4	4.6	5.2	5.8	6.3	6.9	7.5	1.8
Nuclear	0.1	0.2	0.2	0.4	0.7	0.9	0.9	6.8
Total	18.9	19.6	21.9	24.4	27.4	31.0	35.0	2.1

^aFuel inputs used in the production of electricity and heat, excluding captive generators.

Sources: 2010: Derived from U.S. Energy Information Administration (EIA), International Energy Statistics database (as of November 2012), www.eia.gov/ies; and International Energy Agency, "Balances of OECD and Non-OECD Statistics" (2012), www.iea.org (subscription site). Projections: EIA, World Energy Projection System Plus (2013).