

Table 1. Africa total primary energy consumption, by case, 2015-40

(quadrillion Btu)

Case	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case ^a	22.7	24.9	26.0	28.6	31.7	34.8	1.7%
Africa High Economic Growth case	22.7	25.4	28.0	32.5	37.5	43.6	2.6%

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422

and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 2. Africa gross domestic product (GDP) expressed in real purchasing power parity, by case, 2015-40

(billion 2010 dollars)

Case	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case ^a	5,477	6,390	7,813	9,474	11,464	13,888	3.8%
Africa High Economic Growth case	5,477	6,605	8,605	11,091	14,250	18,342	5.0%

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422 and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 3. Africa gross domestic product (GDP) expressed in nominal purchasing power parity, by case, 2015-40

(billion nominal dollars)

Case	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case ^a	5,913	7,441	10,081	13,458	17,838	23,710	5.7%
Africa High Economic Growth case	5,913	7,640	10,996	15,522	21,782	30,801	6.8%

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422

and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 4. Africa gross domestic product (GDP) expressed in real market exchange rates, by case, 2015-40

(billion 2010 dollars)

Case	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case ^a	2,300	2,636	3,199	3,858	4,641	5,597	3.6%
Africa High Economic Growth case	2,300	2,723	3,528	4,534	5,809	7,470	4.8%

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422 and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 5. Africa gross domestic product (GDP) expressed in nominal market exchange rates, by case, 2015-40

(billion nominal dollars)

Case	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case ^a	2,320	2,671	3,787	5,210	7,081	9,681	5.9%
Africa High Economic Growth case	2,320	2,742	3,963	5,427	7,445	10,506	6.2%

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422

and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 6. Africa industrial sector energy consumption, by case and sector, 2015-40

(quadrillion Btu)

Case/sector	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case^a							
Energy-intensive manufacturing	2.5	2.7	3.0	3.3	3.6	3.9	1.8%
Nonenergy-intensive manufacturing	6.1	6.5	6.5	7.0	7.5	7.9	1.0%
Nonmanufacturing	1.6	1.6	1.7	1.8	2.0	2.2	1.5%
Total	10.2	10.8	11.1	12.0	13.0	14.1	1.3%
Africa High Economic Growth case							
Energy-intensive manufacturing	2.5	2.8	3.2	3.7	4.2	4.9	2.7%
Nonenergy-intensive manufacturing	6.1	6.7	7.2	8.2	9.5	10.9	2.3%
Nonmanufacturing	1.6	1.6	1.7	2.0	2.3	2.7	2.3%
Total	10.2	11.1	12.1	14.0	16.1	18.5	2.4%

Notes: Totals may not equal sum of components due to independent rounding.

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422

and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 7. Africa gross output expressed in real purchasing power parity, by case and sector, 2015-40

(billion 2010 dollars)

Case/sector	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case^a							
Energy-intensive manufacturing	821	1,058	1,247	1,478	1,787	2,143	3.9%
Nonenergy-intensive manufacturing	848	1,035	1,175	1,335	1,506	1,684	2.8%
Agriculture	1,151	1,309	1,523	1,771	2,011	2,267	2.7%
Extraction	1,357	1,355	1,366	1,400	1,479	1,575	0.6%
Construction	1,082	1,322	1,663	2,036	2,474	2,986	4.1%
Services	4,760	5,402	6,488	7,713	9,045	10,517	3.2%
Total	10,020	11,481	13,461	15,733	18,302	21,171	3.0%
Africa High Economic Growth case							
Energy-intensive manufacturing	821	1,093	1,375	1,736	2,228	2,838	5.1%
Nonenergy-intensive manufacturing	848	1,067	1,301	1,589	1,927	2,317	4.1%
Agriculture	1,151	1,318	1,575	1,889	2,217	2,586	3.3%
Extraction	1,357	1,389	1,481	1,623	1,830	2,076	1.7%
Construction	1,082	1,362	1,807	2,322	2,948	3,709	5.0%
Services	4,760	5,489	6,801	8,242	9,802	11,518	3.6%
Total	10,020	11,718	14,339	17,401	20,952	25,043	3.7%

Notes: Totals may not equal sum of components due to independent rounding.

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422 and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 8. Africa gross output expressed in nominal purchasing power parity, by case and sector, 2015-40

(billion nominal dollars)

Case/sector	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case^a							
Energy-intensive manufacturing	778	1,167	1,566	2,081	2,785	3,664	6.4%
Nonenergy-intensive manufacturing	906	1,049	1,227	1,449	1,706	1,990	3.2%
Agriculture	1,595	1,289	1,592	1,973	2,382	2,842	2.3%
Extraction	962	1,111	1,291	1,480	1,749	2,057	3.1%
Construction	1,388	1,669	2,280	3,035	4,014	5,260	5.5%
Services	5,047	5,643	7,086	9,001	11,312	14,072	4.2%
Total	10,675	11,929	15,043	19,020	23,949	29,886	4.2%
Africa High Economic Growth case							
Energy-intensive manufacturing	778	1,192	1,670	2,346	3,395	4,918	7.7%
Nonenergy-intensive manufacturing	906	1,068	1,290	1,565	1,904	2,318	3.8%
Agriculture	1,595	1,282	1,594	2,016	2,533	3,187	2.8%
Extraction	962	1,122	1,336	1,597	2,014	2,572	4.0%
Construction	1,388	1,697	2,374	3,226	4,405	6,025	6.0%
Services	5,047	5,635	6,920	8,315	9,748	11,185	3.2%
Total	10,675	11,995	15,184	19,065	23,999	30,206	4.2%

Notes: Totals may not equal sum of components due to independent rounding.

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422 and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420

Table 9. Africa total delivered energy consumption, by case and end-use sector, 2015-40

(quadrillion Btu)

Case/sector	2015	2020	2025	2030	2035	2040	Average annual percent change (2015-40)
IEO2018 Reference case^a							
Industrial end-use sector	10.2	10.8	11.1	12.0	13.0	14.1	1.3%
All other end-use sectors	7.2	7.8	8.8	9.9	11.1	12.6	2.3%
Total delivered energy	17.4	18.6	20.0	21.9	24.1	26.6	1.7%
Africa High Economic Growth case							
Industrial end-use sector	10.2	11.1	12.1	14.0	16.1	18.5	2.4%
All other end-use sectors	7.2	8.0	9.4	10.9	12.8	15.3	3.1%
Total delivered energy	17.4	19.1	21.5	24.9	28.8	33.7	2.7%

Notes: Totals may not equal sum of components due to independent rounding.

^aThe IEO2018 Reference case includes updates to the macroeconomic information, but no modeling changes have been made to other end-use sectors or assumptions

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2018), IEO2018 Reference case; run tPGDfix_AEO2018_Nov30dbs_180104.155422

and Africa High Economic Growth case; run AFR_Hi_CI_EQUAL_20180327_full1p33_180327.164420