

Table A2. World total energy consumption by region, Reference case, 2015-50

quadrillion Btu

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
OECD									
OECD Americas									
Liquids	46.3	47.2	46.4	45.1	45.0	45.8	47.1	48.7	0.1
Natural gas	35.2	35.5	37.2	38.9	40.5	42.5	44.5	46.7	0.8
Coal	16.8	16.5	14.7	12.6	12.0	11.5	11.2	10.8	-1.2
Nuclear	9.5	9.1	9.0	9.1	8.7	8.2	7.6	6.9	-0.9
Other	14.0	16.1	18.1	19.0	20.2	21.4	22.7	23.8	1.5
Total	121.9	124.4	125.5	124.8	126.3	129.5	133.0	136.9	0.3
OECD Europe									
Liquids	28.6	28.4	27.2	26.8	26.6	26.4	26.0	25.8	-0.3
Natural gas	17.3	17.8	18.0	18.6	20.9	22.8	25.1	27.8	1.4
Coal	11.8	12.3	11.9	11.7	11.7	11.6	11.7	12.1	0.1
Nuclear	8.5	7.4	6.7	6.8	6.3	6.0	5.0	4.0	-2.1
Other	13.6	14.5	17.2	19.2	19.4	20.4	20.9	21.7	1.3
Total	79.8	80.5	81.0	83.0	84.8	87.2	88.8	91.4	0.4
OECD Asia									
Liquids	15.8	15.1	15.1	15.2	15.3	15.4	15.6	15.8	0.0
Natural gas	8.6	8.7	9.0	9.6	10.2	10.9	11.6	12.4	1.0
Coal	9.1	9.0	9.1	9.1	9.1	9.2	9.3	9.5	0.1
Nuclear	1.5	3.0	3.7	3.7	3.9	4.0	4.1	4.3	3.0
Other	3.2	3.3	4.4	5.0	5.3	5.6	6.0	6.4	2.0
Total	38.3	39.1	41.3	42.5	43.7	45.1	46.5	48.3	0.7
Total OECD									
Liquids	90.8	90.8	88.6	87.0	86.8	87.7	88.6	90.4	0.0
Natural gas	61.1	62.1	64.2	67.1	71.5	76.2	81.2	86.8	1.0
Coal	37.7	37.9	35.8	33.4	32.8	32.3	32.2	32.4	-0.4
Nuclear	19.5	19.4	19.5	19.6	18.8	18.2	16.7	15.2	-0.7
Other	30.7	33.8	39.7	43.2	44.9	47.4	49.6	51.9	1.5
Total	239.9	244.0	247.8	250.3	254.8	261.8	268.3	276.6	0.4
Non-OECD									
Non-OECD Europe and Eurasia									
Liquids	11.4	11.4	11.0	10.8	10.9	10.8	10.6	10.5	-0.3
Natural gas	21.6	21.1	21.1	21.3	21.9	22.1	22.1	22.2	0.1
Coal	8.2	7.8	7.6	7.5	7.7	7.6	7.5	7.3	-0.3
Nuclear	3.2	3.9	4.4	4.3	4.2	4.1	4.1	4.2	0.8
Other	3.3	3.3	3.3	3.7	3.8	4.0	4.2	4.5	0.9
Total	47.7	47.5	47.4	47.6	48.4	48.7	48.6	48.7	0.1
Non-OECD Asia									
Liquids	49.1	55.8	62.1	67.5	72.9	78.6	83.7	87.4	1.7
Natural gas	18.5	20.8	26.5	31.2	37.8	44.9	52.7	60.5	3.4
Coal	106.9	110.1	111.8	111.0	111.7	113.0	114.7	116.2	0.2
Nuclear	2.9	4.3	5.9	8.2	10.8	13.8	16.1	18.0	5.4
Other	22.8	30.8	35.4	42.5	46.9	52.0	57.3	62.4	2.9
Total	200.1	221.8	241.8	260.3	280.0	302.3	324.5	344.6	1.6

Table A2. World total energy consumption by region, Reference case, 2015-50 (cont.)

quadrillion Btu

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
Middle East									
Liquids	17.2	19.1	18.7	18.2	19.2	20.4	21.8	22.8	0.8
Natural gas	16.4	16.4	18.9	21.7	23.8	25.9	28.5	30.8	1.8
Coal	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	5.3
Nuclear	0.0	0.5	0.6	0.8	1.0	1.2	1.2	1.3	10.6
Other	0.2	0.2	0.7	0.9	1.2	1.5	1.6	1.8	6.1
Total	33.9	36.4	39.0	41.8	45.4	49.3	53.5	57.2	1.5
Africa									
Liquids	8.4	9.0	8.9	9.5	10.5	11.7	13.2	15.0	1.7
Natural gas	5.2	5.6	6.3	6.4	6.7	7.3	7.9	8.6	1.4
Coal	4.3	4.9	5.4	5.5	5.6	5.9	6.2	6.6	1.2
Nuclear	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	3.2
Other	4.6	4.6	4.7	6.2	8.0	9.0	9.7	10.4	2.3
Total	22.7	24.2	25.5	27.9	31.0	34.2	37.5	41.1	1.7
Non-OECD Americas									
Liquids	13.7	13.8	14.6	15.2	15.8	16.7	17.7	18.7	0.9
Natural gas	6.0	5.8	6.3	6.6	7.0	7.7	8.5	9.3	1.2
Coal	1.1	1.1	1.1	1.2	1.2	1.3	1.5	1.6	1.1
Nuclear	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.9
Other	10.1	10.0	11.0	12.0	13.2	14.0	14.9	15.7	1.3
Total	31.1	31.0	33.4	35.4	37.6	40.2	42.8	45.6	1.1
Total Non-OECD									
Liquids	99.7	109.2	115.3	121.1	129.2	138.3	147.1	154.5	1.3
Natural gas	67.8	69.7	79.2	87.2	97.1	107.9	119.6	131.3	1.9
Coal	120.5	124.1	126.1	125.5	126.5	128.2	130.3	132.2	0.3
Nuclear	6.5	9.1	11.4	13.9	16.6	19.7	22.0	24.2	3.8
Other	41.0	48.9	55.1	65.3	73.1	80.6	87.8	94.8	2.4
Total	335.5	360.9	387.1	413.0	442.4	474.7	506.9	537.1	1.4
Total World									
Liquids	190.6	200.0	203.9	208.1	216.0	226.0	235.8	244.9	0.7
Natural gas	128.9	131.7	143.4	154.3	168.6	184.0	200.9	218.2	1.5
Coal	158.2	161.9	161.9	158.8	159.3	160.5	162.5	164.6	0.1
Nuclear	26.0	28.5	30.9	33.5	35.4	37.9	38.7	39.4	1.2
Other	71.7	82.7	94.8	108.4	117.9	128.0	137.3	146.6	2.1
Total	575.4	604.9	634.9	663.2	697.3	736.5	775.2	813.7	1.0

Notes: Energy totals include net imports of coal coke and electricity generated from biomass in the United States.

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

The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2017), run IEO2017_d2017.08.23_153156 and EIA, *Annual Energy 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run ref2017.d120816a, www.eia.gov/aeo.