

Appendix E
Low Oil Price case projections

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Table E1. World total primary energy consumption by region, Low Oil Price case, 2015-50

quadrillion Btu

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
OECD									
OECD Americas	121.9	125.3	126.2	125.7	128.0	131.3	135.1	139.2	0.4
United States /a	97.5	100.7	101.1	100.0	101.5	104.0	107.0	110.2	0.4
Canada	15.1	15.4	15.5	15.5	15.7	15.9	16.3	16.6	0.3
Mexico and Chile	9.3	9.3	9.6	10.1	10.8	11.3	11.8	12.4	0.8
OECD Europe	79.8	80.9	81.7	83.0	84.2	85.8	86.6	88.2	0.3
OECD Asia	39.0	40.8	42.7	43.2	43.8	44.6	45.6	46.9	0.5
Japan	20.4	20.8	20.9	20.1	19.6	19.1	18.6	18.4	-0.3
South Korea	11.7	12.7	14.0	14.7	15.2	15.9	16.5	17.2	1.1
Australia and New Zealand	6.9	7.3	7.9	8.3	8.9	9.6	10.4	11.3	1.4
Total OECD	240.7	247.0	250.7	251.8	255.9	261.6	267.2	274.3	0.4
Non-OECD									
Non-OECD Europe and Eurasia	47.7	47.6	47.7	47.6	47.7	47.6	47.2	47.0	0.0
Russia	30.2	29.9	30.0	30.0	30.0	29.7	29.0	28.3	-0.2
Other	17.5	17.7	17.7	17.6	17.7	17.9	18.2	18.8	0.2
Non-OECD Asia	200.1	225.7	246.0	260.4	276.5	296.6	318.6	340.8	1.5
China	133.1	149.5	157.8	160.4	163.8	168.2	173.8	179.5	0.9
India	28.4	33.1	38.8	44.8	52.4	61.4	70.5	79.4	3.0
Other	38.6	43.1	49.4	55.2	60.4	67.0	74.3	81.9	2.2
Middle East	33.9	36.5	39.5	42.0	45.4	49.2	53.1	56.0	1.4
Africa	22.7	23.9	25.9	28.3	31.2	34.3	37.6	41.5	1.7
Non-OECD Americas	31.1	31.2	34.1	35.4	37.0	38.9	40.8	42.9	0.9
Brazil	14.9	15.2	16.9	17.5	18.1	18.9	19.7	20.4	0.9
Other	16.2	16.1	17.2	17.9	18.9	19.9	21.2	22.5	0.9
Total Non-OECD	335.5	364.9	393.2	413.7	437.8	466.6	497.3	528.3	1.3
Total World	576.2	611.9	643.8	665.5	693.7	728.2	764.5	802.6	1.0

a/ Includes the 50 states and the District of Columbia.

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 lowoil_d2017.08.23_125048 and EIA, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run lowprice.d120816a, www.eia.gov/aeo.

Table E2. World gross domestic product (GDP) by region expressed in purchasing power parity, Low Oil Price case, 2015-50

billion 2010 dollars

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
OECD									
OECD Americas	20,351	22,757	25,291	27,787	30,914	34,047	37,448	40,857	2.0
United States /a	16,397	18,413	20,464	22,485	25,126	27,814	30,779	33,728	2.1
Canada	1,506	1,637	1,773	1,882	1,989	2,090	2,181	2,263	1.2
Mexico and Chile	2,447	2,708	3,055	3,420	3,799	4,143	4,488	4,867	2.0
OECD Europe	19,784	21,490	23,097	24,377	25,675	26,980	28,215	29,683	1.2
OECD Asia	7,447	8,026	8,545	8,821	9,112	9,381	9,729	10,181	0.9
Japan	4,535	4,707	4,836	4,770	4,722	4,617	4,538	4,510	0.0
South Korea	1,705	1,944	2,160	2,319	2,446	2,583	2,749	2,933	1.6
Australia and New Zealand	1,207	1,375	1,549	1,731	1,944	2,181	2,443	2,737	2.4
Total OECD	47,582	52,274	56,933	60,985	65,701	70,407	75,392	80,720	1.5
Non-OECD									
Non-OECD Europe and Eurasia	5,531	5,983	6,421	6,935	7,550	8,060	8,505	8,944	1.4
Russia	3,433	3,621	3,764	3,995	4,277	4,431	4,503	4,516	0.8
Other	2,098	2,362	2,657	2,940	3,273	3,629	4,002	4,428	2.2
Non-OECD Asia	34,985	46,500	58,701	70,877	83,934	98,075	113,039	128,178	3.8
China	18,160	24,286	30,474	36,687	42,998	49,407	56,212	62,801	3.6
India	7,324	10,343	13,570	16,876	20,717	25,115	29,638	34,118	4.5
Other	9,501	11,872	14,657	17,315	20,219	23,553	27,189	31,259	3.5
Middle East	4,749	5,624	6,527	7,513	8,499	9,370	10,280	11,030	2.4
Africa	5,495	6,433	7,753	9,220	10,999	13,136	15,646	18,581	3.5
Non-OECD Americas	6,351	6,918	7,881	8,583	9,309	10,093	10,906	11,735	1.8
Brazil	2,963	3,138	3,532	3,718	3,895	4,091	4,272	4,445	1.2
Other	3,388	3,780	4,349	4,865	5,415	6,001	6,634	7,290	2.2
Total Non-OECD	57,110	71,457	87,283	103,130	120,291	138,733	158,377	178,468	3.3
Total World	104,692	123,731	144,215	164,114	185,991	209,139	233,768	259,188	2.6

a/ Includes the 50 states and the District of Columbia.

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

Sources: derived from Oxford Economic Model (March 2017), www.oxfordeconomics.com (subscription site) and EIA, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run lowprice.d120816a, www.eia.gov/aeo.

Table E3. World liquids consumption by region, Low Oil Price case, 2015-50

(million barrels per day)

Region	2015	2020	2025	2030	2035	2040	2045	2050	Average annual percent change (2015-50)
OECD									
OECD Americas	24.3	25.7	25.7	25.3	25.6	26.3	27.1	28.2	0.4
United States /a	19.5	21.0	21.0	20.6	20.9	21.5	22.3	23.2	0.5
Canada	2.4	2.4	2.3	2.3	2.2	2.2	2.3	2.3	-0.1
Mexico and Chile	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.7	0.4
OECD Europe	14.0	13.9	13.6	13.4	13.3	13.4	13.3	13.3	-0.2
OECD Asia	7.8	7.8	7.8	7.7	7.6	7.7	7.8	7.9	0.0
Japan	4.1	3.9	3.7	3.5	3.4	3.3	3.2	3.2	-0.8
South Korea	2.4	2.5	2.6	2.7	2.8	2.8	2.9	3.0	0.6
Australia and New Zealand	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.8	0.9
Total OECD	46.1	47.4	47.1	46.3	46.6	47.3	48.2	49.4	0.2
Non-OECD									
Non-OECD Europe and Eurasia	5.7	5.6	5.6	5.6	5.5	5.5	5.3	5.3	-0.2
Russia	3.7	3.7	3.6	3.6	3.5	3.4	3.3	3.2	-0.4
Other	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	0.2
Non-OECD Asia	24.3	28.6	32.1	34.5	37.1	40.1	43.3	46.5	1.9
China	12.1	14.8	16.1	16.8	17.2	17.5	17.9	18.3	1.2
India	4.0	4.7	5.5	6.3	7.3	8.5	9.8	11.1	2.9
Other	8.2	9.1	10.5	11.5	12.6	14.0	15.6	17.1	2.1
Middle East	8.3	9.1	9.2	9.3	9.9	10.7	11.6	12.2	1.1
Africa	4.1	4.0	4.3	4.6	5.0	5.5	6.1	6.8	1.5
Non-OECD Americas	6.8	6.9	7.5	7.7	7.9	8.3	8.7	9.1	0.8
Brazil	3.1	3.1	3.4	3.5	3.6	3.7	3.8	4.0	0.7
Other	3.7	3.7	4.0	4.2	4.3	4.6	4.8	5.1	0.9
Total Non-OECD	49.2	54.1	58.7	61.8	65.5	70.1	75.0	79.9	1.4
Total World	95.3	101.6	105.8	108.1	112.1	117.4	123.2	129.4	0.9

a/ Includes the 50 states and the District of Columbia.

Sources: U.S. Energy Information Administration (EIA), World Energy Projection System Plus (2017), run LowOil_d2017.08.23_125048 and EIA, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run lowprice.d120816a, www.eia.gov/aeo.