

Appendix C

Low Economic Growth case projections

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Table C1. World total primary energy consumption by region, Low Economic Growth 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	123.4	123.0	121.2	121.4	122.5	124.0	125.6	0.1
United States /a	97.5	99.1	98.3	95.8	95.2	95.4	96.0	96.7	0.0
Canada	15.1	15.1	15.2	15.3	15.6	15.8	16.2	16.5	0.3
Mexico and Chile	9.3	9.2	9.5	10.0	10.7	11.3	11.8	12.3	0.8
OECD Europe	79.8	80.0	80.6	82.1	83.4	85.2	85.9	87.3	0.3
OECD Asia	38.3	39.2	41.1	41.8	42.5	43.3	44.4	45.7	0.5
Japan	19.6	19.6	19.7	19.2	18.8	18.3	17.9	17.6	-0.3
South Korea	11.7	12.4	13.6	14.4	14.9	15.5	16.1	16.8	1.0
Australia and New Zealand	6.9	7.2	7.8	8.3	8.9	9.6	10.4	11.3	1.4
Total OECD	239.9	242.6	244.7	245.1	247.4	251.0	254.2	258.6	0.2
Non-OECD									
Non-OECD Europe and Eurasia	47.7	47.0	47.2	47.0	47.3	47.3	47.0	47.0	0.0
Russia	30.2	29.6	29.7	29.6	29.7	29.4	28.8	28.1	-0.2
Other	17.5	17.4	17.5	17.4	17.6	17.9	18.2	18.9	0.2
Non-OECD Asia	200.1	222.2	240.6	254.8	270.7	289.9	311.1	333.4	1.5
China	133.1	147.8	155.7	158.4	162.0	166.6	172.4	178.0	0.8
India	28.4	32.4	37.6	43.2	50.0	58.1	66.4	75.1	2.8
Other	38.6	42.0	47.4	53.2	58.6	65.2	72.3	80.2	2.1
Middle East	33.9	35.6	38.7	41.2	44.6	48.0	51.8	54.9	1.4
Africa	22.7	23.2	25.1	27.3	30.0	32.9	35.8	39.1	1.6
Non-OECD Americas	31.1	30.5	33.1	34.6	36.2	38.2	40.2	42.2	0.9
Brazil	14.9	14.8	16.3	17.1	17.7	18.6	19.3	20.1	0.9
Other	16.2	15.7	16.8	17.5	18.4	19.6	20.8	22.1	0.9
Total Non-OECD	335.5	358.6	384.7	404.9	428.7	456.3	485.9	516.6	1.2
Total World	575.4	601.2	629.3	650.0	676.1	707.3	740.1	775.2	0.9

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 lowmacro_d2017.08.24_100928 and EIA, *Annual Energy Outlook 2017*, DOE/EIA-0383(2017) (Washington, DC: January 2017); AEO2017 National Energy Modeling System, run lowmacro.d120816a, www.eia.gov/aeo.

Table C2. World gross domestic product (GDP) by region expressed in purchasing power parity, Low Economic Growth 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	21,998	24,115	26,086	28,397	30,816	33,287	35,546	1.6
United States /a	16,397	17,654	19,276	20,774	22,601	24,566	26,595	28,401	1.6
Canada	1,506	1,636	1,772	1,886	1,996	2,097	2,185	2,262	1.2
Mexico and Chile	2,447	2,709	3,066	3,427	3,800	4,153	4,506	4,883	2.0
OECD Europe	19,784	21,410	22,975	24,275	25,561	26,825	28,030	29,364	1.1
OECD Asia	7,447	8,002	8,516	8,825	9,114	9,380	9,732	10,177	0.9
Japan	4,535	4,695	4,814	4,770	4,715	4,607	4,527	4,491	0.0
South Korea	1,705	1,932	2,151	2,316	2,444	2,578	2,745	2,927	1.6
Australia and New Zealand	1,207	1,375	1,552	1,739	1,955	2,195	2,460	2,760	2.4
Total OECD	47,582	51,410	55,606	59,187	63,072	67,020	71,049	75,087	1.3
Non-OECD									
Non-OECD Europe and Eurasia	5,531	6,043	6,519	7,015	7,624	8,138	8,588	9,021	1.4
Russia	3,433	3,679	3,855	4,066	4,342	4,499	4,574	4,581	0.8
Other	2,098	2,363	2,664	2,949	3,283	3,639	4,014	4,440	2.2
Non-OECD Asia	34,985	46,169	57,920	69,747	82,283	95,636	109,839	124,589	3.7
China	18,160	24,152	30,250	36,376	42,625	48,962	55,660	62,220	3.6
India	7,324	10,270	13,281	16,340	19,754	23,535	27,495	31,696	4.3
Other	9,501	11,747	14,389	17,031	19,904	23,140	26,684	30,673	3.4
Middle East	4,749	5,693	6,635	7,592	8,571	9,475	10,422	11,181	2.5
Africa	5,495	6,425	7,743	9,211	10,989	13,122	15,625	18,561	3.5
Non-OECD Americas	6,351	6,911	7,882	8,577	9,291	10,064	10,876	11,704	1.8
Brazil	2,963	3,135	3,516	3,701	3,874	4,062	4,237	4,403	1.1
Other	3,388	3,777	4,365	4,876	5,417	6,002	6,640	7,301	2.2
Total Non-OECD	57,110	71,240	86,698	102,142	118,759	136,435	155,351	175,055	3.3
Total World	104,692	122,651	142,303	161,328	181,831	203,455	226,400	250,142	2.5

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 lowmacro.d120816a, www.eia.gov/aeo.