

Appendix C

Low Economic Growth case projections

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Table C1. World total primary energy consumption by region, Low Economic Growth case, 2011–40
(quadrillion Btu)

Region	History		Projections					Average annual percent change, 2012–40
	2011	2012	2020	2025	2030	2035	2040	
OECD								
OECD Americas	120.6	118.1	123.3	123.9	124.7	126.3	128.8	0.3
United States ^a	96.8	94.4	98.7	98.1	97.5	97.4	98.0	0.1
Canada	14.5	14.5	15.0	15.4	15.9	16.6	17.3	0.6
Mexico and Chile	9.3	9.2	9.7	10.3	11.2	12.3	13.5	1.4
OECD Europe	82.0	81.4	84.0	86.3	88.4	90.4	91.7	0.4
OECD Asia	39.4	39.0	43.0	44.3	45.1	46.0	46.3	0.6
Japan	21.2	20.8	21.7	22.0	21.8	21.6	20.8	0.0
South Korea	11.3	11.4	13.7	14.4	15.0	15.5	15.9	1.2
Australia and New Zealand	6.9	6.8	7.5	7.9	8.3	8.9	9.6	1.2
Total OECD	242.0	238.4	250.4	254.5	258.2	262.6	266.8	0.4
Non-OECD								
Non-OECD Europe and Eurasia	49.9	50.7	51.7	54.4	55.9	57.0	56.4	0.4
Russia	30.9	32.1	33.0	34.3	34.6	34.7	33.4	0.1
Other	19.0	18.6	18.6	20.0	21.3	22.3	23.0	0.8
Non-OECD Asia	168.2	175.9	220.3	240.8	260.1	280.1	296.4	1.9
China	109.4	115.0	145.6	155.2	163.3	170.5	172.5	1.5
India	25.0	26.2	32.4	37.7	43.7	50.9	59.5	3.0
Other	33.7	34.7	42.3	47.8	53.1	58.8	64.4	2.2
Middle East	29.9	31.7	40.4	44.3	48.7	53.4	57.2	2.1
Africa	20.1	21.5	25.9	29.6	33.2	37.5	42.6	2.5
Non-OECD Americas	30.5	31.0	33.1	36.1	38.6	41.6	44.9	1.3
Brazil	14.8	15.2	16.1	17.8	19.4	21.2	23.1	1.5
Other	15.7	15.8	17.0	18.3	19.2	20.4	21.8	1.2
Total Non-OECD	298.6	310.8	371.5	405.2	436.4	469.6	497.5	1.7
Total World	540.5	549.3	621.9	659.6	694.7	732.3	764.3	1.2

^aIncludes 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: **History:** U.S. Energy Information Administration (EIA), International Energy Statistics database (as of May 2015), www.eia.gov/ies; and International Energy Agency, "Balances of OECD and Non-OECD Statistics" (2014), www.iea.org (subscription site). **Projections:** EIA, *Annual Energy Outlook 2015*, DOE/EIA-0383(2015) (Washington, DC: April 2015); AEO2015 National Energy Modeling System, run LowMACRO. D021915A, www.eia.gov/aeo; and World Energy Projection System Plus (2016), run macro_low_2016.02.19_115022.

Table C2. World gross domestic product (GDP) by region expressed in purchasing power parity, Low Economic Growth case, 2011–40
(billion 2010 dollars)

Region	History		Projections					Average annual percent change, 2012–40
	2011	2012	2020	2025	2030	2035	2040	
OECD								
OECD Americas	18,616	19,080	22,285	24,599	27,041	29,850	33,088	2.0
United States ^a	15,021	15,369	17,747	19,441	21,224	23,305	25,763	1.9
Canada	1,396	1,422	1,682	1,841	2,005	2,186	2,375	1.8
Mexico and Chile	2,200	2,288	2,856	3,317	3,813	4,358	4,950	2.8
OECD Europe	18,670	18,638	21,243	23,064	24,754	26,420	28,088	1.5
OECD Asia	6,904	7,051	7,923	8,363	8,768	9,208	9,579	1.1
Japan	4,299	4,373	4,625	4,761	4,846	4,920	4,896	0.4
South Korea	1,528	1,563	1,934	2,081	2,239	2,405	2,555	1.8
Australia and New Zealand	1,077	1,115	1,365	1,521	1,683	1,884	2,127	2.3
Total OECD	44,189	44,769	51,451	56,026	60,564	65,478	70,755	1.6
Non-OECD								
Non-OECD Europe and Eurasia	5,380	5,535	6,562	7,641	8,793	10,087	11,331	2.6
Russia	3,165	3,273	3,610	4,017	4,433	4,892	5,195	1.7
Other	2,215	2,262	2,952	3,624	4,359	5,195	6,136	3.6
Non-OECD Asia	26,261	27,914	43,489	54,543	66,290	79,176	91,493	4.3
China	13,286	14,309	22,731	28,382	34,119	40,094	44,582	4.1
India	5,706	5,957	10,011	13,039	16,406	20,344	25,009	5.3
Other	7,268	7,648	10,747	13,122	15,765	18,738	21,902	3.8
Middle East	4,986	5,072	6,803	8,240	9,707	11,205	12,705	3.3
Africa	4,355	4,561	6,468	8,131	10,258	12,968	16,365	4.7
Non-OECD Americas	6,427	6,604	7,838	9,014	10,153	11,376	12,761	2.4
Brazil	2,916	2,968	3,359	3,836	4,305	4,795	5,333	2.1
Other	3,510	3,636	4,479	5,178	5,848	6,580	7,428	2.6
Total Non-OECD	47,408	49,686	71,160	87,570	105,200	124,812	144,655	3.9
Total World	91,598	94,455	122,612	143,596	165,763	190,290	215,409	3.0

^aIncludes the 50 States and the District of Columbia.

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

Sources: Derived from Oxford Economic Model (June 2015), www.oxfordeconomics.com (subscription site); and EIA, *Annual Energy Outlook 2015*, DOE/EIA-0383(2015) (Washington, DC: April 2015); AEO2015 National Energy Modeling System, run LOWMACRO.D021915A, www.eia.gov/aeo.