

Table C3. World petroleum and other liquids consumption by region and end-use sector, Low Oil Price case, 2010-40 (quadrillion Btu)

Region	History	Projections					Average annual percent change, 2010-40
	2010	2020	2025	2030	2035	2040	
OECD							
United States							
Residential	1.1	0.9	0.8	0.8	0.7	0.7	-1.6
Commercial	0.7	0.7	0.7	0.8	0.8	0.8	0.7
Industrial	8.1	9.7	10.1	10.2	10.2	10.3	0.8
Transportation	26.9	26.2	25.6	25.3	25.5	26.1	-0.1
Electricity	0.4	0.2	0.2	0.2	0.2	0.2	-2.3
Total	37.2	37.6	37.4	37.2	37.4	38.2	0.1
Canada							
Residential	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Industrial	1.7	1.9	2.0	2.2	2.3	2.4	1.2
Transportation	2.4	2.6	2.5	2.4	2.4	2.5	0.1
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
Total	4.3	4.8	4.8	4.8	5.0	5.2	0.6
Mexico/Chile							
Residential	0.3	0.3	0.4	0.4	0.4	0.4	0.7
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.9
Industrial	1.1	1.4	1.5	1.7	1.8	1.9	1.7
Transportation	2.7	3.2	3.3	3.3	3.3	3.5	0.9
Electricity	0.4	0.4	0.4	0.4	0.4	0.3	-0.7
Total	4.7	5.4	5.7	5.8	5.9	6.2	1.0
OECD Europe							
Residential	2.1	2.0	2.0	2.0	1.9	1.9	-0.2
Commercial	0.9	0.9	0.9	0.9	0.8	0.8	-0.3
Industrial	9.6	10.2	10.9	11.5	12.1	12.7	1.0
Transportation	17.7	17.0	17.0	16.9	16.8	17.3	-0.1
Electricity	0.4	0.4	0.4	0.4	0.3	0.3	-0.7
Total	30.6	30.4	31.1	31.6	32.0	33.1	0.3
Japan							
Residential	0.6	0.5	0.5	0.5	0.5	0.5	-0.6
Commercial	0.7	0.6	0.7	0.7	0.6	0.6	-0.2
Industrial	3.6	4.2	4.3	4.3	4.2	4.0	0.4
Transportation	3.7	3.3	3.1	3.0	2.9	2.8	-0.9
Electricity	0.5	0.5	0.4	0.4	0.4	0.4	-1.0
Total	9.0	9.1	9.1	8.9	8.6	8.3	-0.3

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Table C3. World petroleum and other liquids consumption by region and end-use sector, Low Oil Price case, 2010-40 (continued) (quadrillion Btu)

Region	History		Projections				Average annual percent change, 2010-40
	2010	2020	2025	2030	2035	2040	
OECD (continued)							
South Korea							
Residential	0.1	0.1	0.1	0.1	0.1	0.2	0.5
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Industrial	2.5	3.0	3.1	3.1	3.0	2.9	0.6
Transportation	1.8	2.2	2.3	2.3	2.4	2.5	1.2
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	-1.0
Total	4.6	5.6	5.7	5.8	5.7	5.8	0.8
Australia/New Zealand							
Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Industrial	0.6	0.6	0.6	0.6	0.7	0.7	0.5
Transportation	1.6	1.7	1.7	1.7	1.7	1.8	0.5
Electricity	0.0	0.0	0.0	0.0	0.0	0.0	-0.9
Total	2.2	2.4	2.4	2.4	2.4	2.6	0.5
Total OECD							
Residential	4.3	4.0	4.0	3.9	3.8	3.8	-0.5
Commercial	2.6	2.6	2.7	2.7	2.7	2.7	0.1
Industrial	27.2	31.0	32.6	33.5	34.1	35.0	0.8
Transportation	56.6	56.0	55.4	54.9	55.0	56.5	0.0
Electricity	1.9	1.6	1.5	1.5	1.4	1.4	-1.1
Total	92.6	95.3	96.2	96.4	97.0	99.3	0.2
Non-OECD							
Russia							
Residential	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	-0.9
Industrial	2.7	2.8	2.8	2.8	2.9	2.7	0.1
Transportation	2.9	3.4	3.4	3.4	3.3	3.3	0.5
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	-0.6
Total	6.0	6.7	6.6	6.7	6.7	6.5	0.2
Other Non-OECD Europe and Eurasia							
Residential	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Industrial	1.4	1.3	1.3	1.3	1.4	1.4	0.0
Transportation	2.0	2.9	3.1	3.4	3.7	4.0	2.4
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	-0.9
Total	3.7	4.6	4.8	5.1	5.4	5.8	1.5

See notes at end of table.

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Table C3. World petroleum and other liquids consumption by region and end-use sector, Low Oil Price case, 2010-40 (continued) (quadrillion Btu)

Region	History		Projections				Average annual percent change, 2010-40
	2010	2020	2025	2030	2035	2040	
Non-OECD (continued)							
China							
Residential	1.2	1.2	1.2	1.1	1.1	1.0	-0.6
Commercial	1.1	1.1	1.1	1.1	1.0	0.9	-0.4
Industrial	8.4	9.7	10.1	11.0	11.6	11.7	1.1
Transportation	8.4	14.5	16.8	19.2	20.9	21.8	3.2
Electricity	0.1	0.1	0.0	0.0	0.0	0.0	-4.8
Total	19.1	26.6	29.2	32.5	34.6	35.5	2.1
India							
Residential	0.9	1.2	1.1	1.1	1.1	1.0	0.3
Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial	3.2	3.6	4.0	4.5	4.9	4.9	1.5
Transportation	2.3	3.7	4.5	5.1	5.7	6.4	3.5
Electricity	0.2	0.2	0.2	0.2	0.2	0.2	-0.8
Total	6.6	8.7	9.9	11.0	11.8	12.5	2.1
Other Non-OECD Asia							
Residential	0.5	0.6	0.6	0.7	0.7	0.8	1.2
Commercial	0.3	0.3	0.4	0.4	0.5	0.5	1.7
Industrial	4.8	5.9	7.2	8.5	9.9	11.5	3.0
Transportation	8.2	11.1	13.1	15.1	17.2	20.0	3.0
Electricity	1.1	1.1	1.0	1.0	0.9	0.9	-0.6
Total	14.9	19.0	22.4	25.7	29.2	33.7	2.8
Middle East							
Residential	0.7	0.8	0.7	0.7	0.7	0.7	0.1
Commercial	0.1	0.1	0.1	0.2	0.2	0.2	1.1
Industrial	3.8	5.4	6.4	8.2	10.2	12.3	4.0
Transportation	5.8	7.6	8.0	8.4	8.6	9.0	1.5
Electricity	3.4	3.4	3.3	3.1	3.0	2.8	-0.6
Total	13.8	17.3	18.5	20.6	22.6	25.0	2.0
Africa							
Residential	0.7	0.8	0.8	0.9	0.9	1.0	1.2
Commercial	0.1	0.1	0.1	0.1	0.1	0.2	2.0
Industrial	1.5	1.6	1.8	2.0	2.2	2.5	1.6
Transportation	3.7	4.8	5.5	6.3	7.3	8.7	2.9
Electricity	0.8	0.8	0.7	0.7	0.7	0.6	-0.8
Total	6.9	8.1	8.9	10.0	11.3	13.0	2.2

See notes at end of table.

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Table C3. World petroleum and other liquids consumption by region and end-use sector, Low Oil Price case, 2010-40 (continued) (quadrillion Btu)

Region	History		Projections				Average annual percent change, 2010-40
	2010	2020	2025	2030	2035	2040	
Non-OECD (continued)							
Brazil							
Residential	0.3	0.3	0.3	0.4	0.4	0.4	0.8
Commercial	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Industrial	2.0	2.4	2.4	2.6	3.0	3.4	1.7
Transportation	2.9	3.8	4.1	4.4	4.7	5.3	2.1
Electricity	0.1	0.1	0.1	0.1	0.1	0.1	-0.9
Total	5.4	6.7	6.9	7.5	8.2	9.2	1.8
Other Central and South America							
Residential	0.3	0.4	0.4	0.4	0.4	0.4	0.7
Commercial	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Industrial	2.1	2.2	2.2	2.4	2.6	2.9	1.1
Transportation	3.4	4.3	4.6	4.8	5.1	5.5	1.6
Electricity	1.0	1.0	0.9	0.9	0.8	0.8	-0.9
Total	6.9	7.8	8.1	8.5	9.0	9.7	1.1
Total Non-OECD							
Residential	5.1	5.7	5.7	5.7	5.7	5.7	0.4
Commercial	1.9	2.0	2.0	2.1	2.1	2.1	0.4
Industrial	29.8	34.9	37.9	43.4	48.7	53.4	2.0
Transportation	39.6	56.1	63.2	70.1	76.4	83.9	2.5
Electricity	6.9	6.8	6.5	6.2	5.9	5.6	-0.7
Total	83.3	105.4	115.3	127.5	138.8	150.8	2.0
Total World							
Residential	9.5	9.7	9.7	9.6	9.6	9.5	0.0
Commercial	4.5	4.6	4.7	4.8	4.8	4.8	0.2
Industrial	57.0	65.9	70.5	76.9	82.8	88.4	1.5
Transportation	96.2	112.1	118.6	125.0	131.4	140.4	1.3
Electricity	8.8	8.3	8.0	7.6	7.3	7.0	-0.8
Total	176.0	200.7	211.5	223.9	235.8	250.1	1.2

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

Sources: 2010: Derived from U.S. Energy Information Administration (EIA), International Energy Statistics database (as of November 2013), www.eia.gov/ies; and International Energy Agency, "Balances of OECD and Non-OECD Statistics" (2013), www.iea.org (subscription site).

Projections: EIA, *Annual Energy Outlook 2014*, DOE/EIA-0383(2014) (Washington, DC: April 2014), AEO2014 National Energy Modeling System, run LOWPRICE.D120613A, www.eia.gov/aeo; and World Energy Projection System Plus (2014), run 2014.03.24_145137 (Low Oil Price case).

Table C6. World other liquid fuels^a production by region and country, Low Oil Price case, 2009-40
(million barrels per day)

Region	History			Projections					Average annual percent change, 2010-40
	2009	2010	2011	2020	2025	2030	2035	2040	
OPEC^b	3.1	3.3	3.5	4.3	4.5	4.8	5.1	5.0	1.4
Natural gas plant liquids	3.1	3.3	3.4	4.0	4.2	4.4	4.8	4.7	1.2
Biofuels ^c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
Coal-to-liquids	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
Gas-to-liquids (primarily Qatar)	0.0	0.0	0.1	0.3	0.3	0.3	0.3	0.3	12.3
Refinery gain	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.3
Non-OPEC	8.5	9.0	9.3	10.7	11.5	12.1	12.8	13.4	1.3
OECD	5.8	6.0	6.3	6.7	7.0	7.0	7.2	7.1	0.5
Natural gas plant liquids	3.4	3.5	3.6	4.0	4.1	4.1	4.2	4.1	0.5
Biofuels ^c	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.1	1.0
Coal-to-liquids	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Gas-to-liquids	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
Kerogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
Refinery gain	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	0.4
Non-OECD	2.7	2.9	3.0	3.9	4.5	5.1	5.6	6.3	2.6
Natural gas plant liquids	1.6	1.6	1.7	2.1	2.4	2.6	2.9	3.3	2.3
Biofuels ^c	0.4	0.5	0.5	0.7	0.9	1.1	1.2	1.4	3.5
Coal-to-liquids	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	1.9
Gas-to-liquids	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.3
Refinery gain	0.5	0.6	0.6	0.8	0.9	1.0	1.2	1.3	2.7
Total World	11.6	12.3	12.8	15.0	16.0	16.9	17.8	18.4	1.4
Natural Gas Plant Liquids	8.1	8.4	8.7	10.0	10.7	11.2	11.8	12.1	1.2
United States	1.9	2.1	2.2	2.6	2.8	2.8	2.9	2.8	1.0
Russia	0.4	0.4	0.4	0.6	0.7	0.8	1.0	1.2	3.5
Biofuels^c	1.2	1.3	1.4	1.7	1.9	2.2	2.3	2.5	2.1
Brazil	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.7	2.4
China	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	8.4
India	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
United States	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6
Coal-to-liquids	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	1.9
Australia/New Zealand	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
China	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	8.6
Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
India	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
South Africa	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—
Gas-to-liquids	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	5.3
Qatar	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	11.8
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8
Refinery Gain	2.2	2.3	2.4	2.6	2.7	2.9	3.1	3.3	1.1
United States	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
China	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.6	3.0

^aOther liquid fuels include natural gas plant liquids, biofuels, gas-to-liquids, coal-to-liquids, kerogen, and refinery gain.

^bOPEC = Organization of the Petroleum Exporting Countries (OPEC-13).

^cEthanol values are reported on a gasoline-equivalent basis.

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

Sources: **History:** U.S. Energy Information Administration (EIA), Office of Energy Analysis and Office of Petroleum, Natural Gas & Biofuels Analysis. **Projections:** EIA, Generate World Oil Balance application (2014), run IEO2014_GWOB_LowPriceCase.xlsx.

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