

Table A6. World other liquid fuels^a production by region and country, Reference 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	4.6	4.9	5.3	5.9	1.9
Natural gas plant liquids	3.1	3.3	3.4	4.0	4.2	4.5	4.9	5.4	1.7
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	0.4	0.4	0.4	14.1
Refinery gain	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.9
Non-OPEC	8.5	9.0	9.3	10.6	11.7	12.6	13.5	14.4	1.6
OECD	5.8	6.1	6.3	6.8	7.1	7.3	7.4	7.6	0.7
Natural gas plant liquids	3.4	3.5	3.6	4.0	4.2	4.3	4.3	4.4	0.8
Biofuels ^c	0.8	0.8	1.0	1.1	1.2	1.2	1.3	1.3	1.6
Coal-to-liquids	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7
Gas-to-liquids	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	—
Kerogen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Refinery gain	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
Non-OECD	2.7	2.9	3.0	3.8	4.6	5.4	6.1	6.8	2.8
Natural gas plant liquids	1.6	1.6	1.7	1.9	2.2	2.4	2.7	2.9	1.9
Biofuels ^c	0.4	0.5	0.5	0.7	0.9	1.2	1.4	1.6	4.1
Coal-to-liquids	0.2	0.2	0.2	0.3	0.5	0.7	0.8	1.0	6.1
Gas-to-liquids	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.0
Refinery gain	0.5	0.6	0.6	0.8	0.9	1.0	1.1	1.2	2.3
Total World	11.6	12.3	12.8	14.9	16.3	17.6	18.8	20.3	1.7
Natural Gas Plant Liquids	8.1	8.4	8.7	9.9	10.6	11.2	11.9	12.7	1.4
United States	1.9	2.1	2.2	2.6	2.9	3.0	3.0	3.0	1.2
Russia	0.4	0.4	0.4	0.5	0.6	0.8	0.9	1.0	2.9
Biofuels^c	1.2	1.3	1.5	1.8	2.1	2.4	2.7	3.0	2.7
Brazil	0.3	0.3	0.3	0.4	0.5	0.7	0.8	0.8	3.0
China	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	9.2
India	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
United States	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.5
Coal-to-liquids	0.2	0.2	0.2	0.3	0.5	0.7	0.9	1.1	6.2
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	0.2	0.3	0.5	0.6	14.9
Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
India	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	—
South Africa	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0
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	0.4	0.5	0.6	0.6	7.6
Qatar	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	13.6
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7
Refinery Gain	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	0.8
United States	1.0	1.1	1.1	1.1	1.0	1.0	0.9	1.0	-0.4
China	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	2.6

^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_RefCase.xlsx.