

International Energy Outlook 2005

Report #: DOE/EIA-0484(2005)

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**Table E1. World Oil Production Capacity by Region and Country, Reference Case, 1990-2025
(Million Barrels per Day)**

Region/Country	History (Estimates)		Projections			
	1990	2002	2010	2015	2020	2025
OPEC						
Persian Gulf						
Iran	3.2	3.7	4.0	4.3	4.7	5.0
Iraq	2.2	2.0	3.5	4.2	5.3	6.6
Kuwait	1.7	2.1	2.9	3.5	4.5	5.2
Qatar	0.5	0.8	0.6	0.7	0.8	0.8
Saudi Arabia	8.6	9.2	14.0	14.5	15.4	16.3
United Arab Emirates	2.5	2.9	3.3	3.6	4.5	5.4
Total Persian Gulf	18.7	20.7	28.3	30.8	35.2	39.3
Other OPEC						
Algeria	1.3	1.6	2.0	2.1	2.4	2.8
Indonesia	1.5	1.3	1.5	1.5	1.5	1.5
Libya	1.5	1.6	2.0	2.2	2.5	2.9
Nigeria	1.8	2.3	2.6	3.0	3.4	3.9
Venezuela	2.4	3.1	3.5	4.1	4.7	5.6
Total Other OPEC	8.5	9.9	11.6	12.9	14.5	16.7
Total OPEC	27.2	30.6	39.9	43.7	49.7	56.0
Non-OPEC						
Mature Market Economies						
United States	9.7	9.3	9.9	9.7	9.5	9.3
Canada	2.0	2.9	3.5	4.8	4.9	5.1
Mexico	3.0	3.6	4.3	4.6	4.7	4.9
North Sea	4.0	6.3	5.8	5.4	5.1	4.5
Australia and New Zealand	0.7	0.8	1.0	0.9	0.9	0.9
Other	0.7	0.8	0.7	0.7	0.7	0.7
Total Mature Market	20.1	23.7	25.2	26.1	25.8	25.4
Transitional Economies						
Former Soviet Union	11.4	11.2	13.6	15.3	16.5	17.6
Eastern Europe	0.3	0.2	0.3	0.4	0.4	0.5
Total Transitional	11.7	11.4	13.9	15.7	16.9	18.1
Emerging Economies						
China	2.8	3.0	3.7	3.6	3.6	3.5
Other Asia	1.7	2.4	2.7	2.8	2.9	2.8
Middle East	1.4	1.9	2.3	2.5	2.6	2.8
Africa	2.1	3.1	4.0	5.1	5.8	6.8
Central and South America	2.4	3.9	4.8	5.9	6.4	6.9
Total Emerging	10.4	14.3	17.5	19.9	21.2	22.7
Total Non-OPEC	42.2	49.4	56.6	61.7	63.9	66.2
Total World	69.4	80.0	96.5	105.4	113.6	122.2

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: History: Energy Information Administration (EIA), Energy Markets and Contingency Information Division. Projections: EIA, System for the Analysis of Global Energy Markets (2005); and U.S.

Department of the Interior, U.S. Geological Survey, World Petroleum Assessment 2000 (Reston, VA, July 2000).

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**Table E2. World Oil Production Capacity by Region and Country, High Oil Price Case, 1990-2025
(Million Barrels per Day)**

Region/Country	History (Estimates)		Projections			
	1990	2002	2010	2015	2020	2025
OPEC						
Persian Gulf						
Iran	3.2	3.7	4.0	4.0	4.2	4.5
Iraq	2.2	2.0	3.1	3.1	3.5	4.0
Kuwait	1.7	2.1	2.9	2.9	3.3	3.5
Qatar	0.5	0.8	0.6	0.6	0.7	0.8
Saudi Arabia	8.6	9.2	10.4	10.5	10.8	11.0
United Arab Emirates	2.5	2.9	3.4	3.4	3.7	4.0
Total Persian Gulf	18.7	20.7	24.4	24.5	26.2	27.8
Other OPEC						
Algeria	1.3	1.6	1.8	1.8	2.0	2.2
Indonesia	1.5	1.3	1.4	1.4	1.4	1.4
Libya	1.5	1.6	1.8	1.8	2.0	2.2
Nigeria	1.8	2.3	2.4	2.4	2.7	2.9
Venezuela	2.4	3.1	3.2	3.2	3.5	3.9
Total Other OPEC	8.5	9.9	10.6	10.6	11.6	12.6
Total OPEC	27.2	30.6	35.0	35.1	37.8	40.4
Non-OPEC						
Mature Market Economies						
United States	9.7	9.3	10.2	10.5	10.9	11.0
Canada	2.0	2.9	4.0	5.4	5.9	6.4
Mexico	3.0	3.6	4.5	4.9	5.1	5.3
North Sea	4.0	6.3	6.2	5.8	5.4	4.9
Australia and New Zealand	0.7	0.8	1.0	1.0	1.0	0.9
Other	0.7	0.8	0.7	0.7	0.7	0.7
Total Mature Market	20.1	23.7	26.6	28.3	29.0	29.2
Transitional Economies						
Former Soviet Union	11.4	11.2	14.1	16.6	17.8	19.6
Eastern Europe	0.3	0.2	0.4	0.4	0.4	0.5
Total Transitional	11.7	11.4	14.5	17.0	18.2	20.1
Emerging Economies						
China	2.8	3.0	3.7	3.7	3.8	3.7
Other Asia	1.7	2.4	2.9	3.1	3.0	3.0
Middle East	1.4	1.9	2.4	2.6	2.8	3.0
Africa	2.1	3.1	4.4	5.7	6.7	8.1
Central and South America	2.4	3.9	5.2	6.4	7.2	8.0
Total Emerging	10.4	14.3	18.5	21.5	23.5	25.8
Total Non-OPEC	42.2	49.4	59.6	66.7	70.7	75.1
Total World	69.4	80.0	94.6	101.8	108.5	115.5

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: History: Energy Information Administration (EIA), Energy Markets and Contingency Information Division. Projections: EIA, System for the Analysis of Global Energy Markets (2005); and U.S. Department of the Interior, U.S. Geological Survey, World Petroleum Assessment 2000 (Reston, VA, July 2000).

International Energy Outlook 2005

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Next Release Date: July 2006

**Table E3. World Oil Production Capacity by Region and Country, Low Oil Price Case, 1990-2025
(Million Barrels per Day)**

Region/Country	History (Estimates)		Projections			
	1990	2002	2010	2015	2020	2025
OPEC						
Persian Gulf						
Iran	3.2	3.7	4.8	5.6	6.2	6.9
Iraq	2.2	2.0	4.0	5.7	7.1	8.6
Kuwait	1.7	2.1	3.6	4.5	5.4	6.2
Qatar	0.5	0.8	0.8	0.8	0.8	0.9
Saudi Arabia	8.6	9.2	15.6	16.5	18.1	20.4
United Arab Emirates	2.5	2.9	4.0	4.8	6.0	7.0
Total Persian Gulf	18.7	20.7	32.8	37.9	43.6	50.0
Other OPEC						
Algeria	1.3	1.6	2.2	2.6	3.1	3.7
Indonesia	1.5	1.3	1.5	1.5	1.5	1.5
Libya	1.5	1.6	2.2	2.6	3.3	3.9
Nigeria	1.8	2.3	3.3	4.3	5.5	6.4
Venezuela	2.4	3.1	4.6	5.4	6.4	7.3
Total Other OPEC	8.5	9.9	13.8	16.4	19.8	22.8
Total OPEC	27.2	30.6	46.6	54.3	63.4	72.8
Non-OPEC						
Mature Market Economies						
United States	9.7	9.3	9.5	9.1	8.9	8.4
Canada	2.0	2.9	3.4	4.3	4.4	4.4
Mexico	3.0	3.6	4.2	4.5	4.5	4.7
North Sea	4.0	6.3	5.7	5.2	4.8	4.3
Australia and New Zealand	0.7	0.8	0.9	0.9	0.9	0.8
Other	0.7	0.8	0.7	0.7	0.7	0.7
Total Mature Market	20.1	23.7	24.4	24.7	24.2	23.3
Transitional Economies						
Former Soviet Union	11.4	11.2	13.1	14.9	15.8	16.9
Eastern Europe	0.3	0.2	0.3	0.4	0.4	0.4
Total Transitional	11.7	11.4	13.4	15.3	16.2	17.3
Emerging Economies						
China	2.8	3.0	3.6	3.4	3.4	3.3
Other Asia	1.7	2.4	2.6	2.7	2.6	2.6
Middle East	1.4	1.9	2.2	2.4	2.5	2.7
Africa	2.1	3.1	4.0	4.9	5.5	6.7
Central and South America	2.4	3.9	4.8	5.6	6.1	6.5
Total Emerging	10.4	14.3	17.2	19.0	20.1	21.8
Total Non-OPEC	42.2	49.4	55.0	59.0	60.5	62.4
Total World	69.4	80.0	101.6	113.3	123.9	135.2

Note: OPEC = Organization of Petroleum Exporting Countries.

Sources: History: Energy Information Administration (EIA), Energy Markets and Contingency Information Division. Projections: EIA, System for the Analysis of Global Energy Markets (2005); and U.S. Department of the Interior, U.S. Geological Survey, World Petroleum Assessment 2000 (Reston, VA, July 2000).

International Energy Outlook 2005

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Table E4. World Oil Production by Region and Country, Reference Case, 1990-2025
(Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2002	2010	2015	2020	2025
Conventional Production	66.7	76.6	91.5	98	105.2	113.2
OPEC	24.6	28.3	37.0	40.0	45.5	51.4
Asia	1.5	1.4	1.6	1.5	1.5	1.5
Middle East	16.3	19.0	25.8	27.9	32.1	36.7
North Africa	2.7	3.0	3.6	3.9	4.4	4.6
West Africa	1.8	2.0	2.5	2.7	3.1	3.6
South America	2.3	2.9	3.5	4.0	4.4	5.0
Non-OPEC	42.1	48.3	54.5	58.0	59.7	61.8
Mature Market Economies	20.1	22.9	23.5	23.0	22.4	21.8
United States	9.7	9.3	9.9	9.7	9.5	9.3
Canada	2.0	2.1	1.8	1.7	1.6	1.6
Mexico	3.0	3.6	4.3	4.6	4.7	4.9
Western Europe	4.6	6.9	6.4	6.0	5.6	5.0
Japan	0.1	0.2	0.1	0.1	0.1	0.1
Australia and New Zealand	0.7	0.8	1.0	0.9	0.9	0.9
Transitional Economies	11.6	11.4	13.9	15.7	16.8	18.0
Former Soviet Union	11.3	11.2	13.6	15.3	16.4	17.5
Russia	11.3	9.6	10.3	10.8	11.1	11.3
Caspian and Other FSU	0.0	1.6	3.3	4.5	5.3	6.2
Eastern Europe	0.3	0.2	0.3	0.4	0.4	0.5
Emerging Economies	10.4	14.0	17.1	19.3	20.5	22.0
China	2.8	3.0	3.7	3.6	3.6	3.5
Other Asia	1.7	2.4	2.7	2.8	2.8	2.7
Middle East	1.4	1.9	2.3	2.5	2.6	2.8
Africa	2.1	2.9	3.8	4.9	5.5	6.5
Central and South America	2.4	3.8	4.6	5.5	6.0	6.5
Nonconventional Production	0.0	1.5	2.8	4.9	5.5	5.7
United States	0.0	0.0	0.0	0.0	0.0	0.0
Other North America	0.0	0.8	1.7	3.1	3.3	3.5
Western Europe	0.0	0.0	0.0	0.0	0.1	0.1
Asia	0.0	0.0	0.0	0.0	0.1	0.1
Middle East	0.0	0.0	0.1	0.2	0.2	0.2
Africa	0.0	0.2	0.2	0.2	0.3	0.3
Central and South America	0.0	0.5	0.8	1.4	1.5	1.5
Liquids Production	66.7	78.1	94.3	102.9	110.7	118.9
OPEC	24.6	28.7	37.7	41.3	46.8	52.7
Non-OPEC	42.1	49.4	56.6	61.7	63.9	66.2
Persian Gulf Production as a Percentage of World Consumption	24.5%	24.3%	27.5%	27.3%	29.2%	31.0%

Notes: OPEC = Organization of Petroleum Exporting Countries. Conventional production includes crude oil (including lease condensates), natural gas liquids, other hydrogen hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

Nonconventional liquids include production from oil sands, ultra-heavy oils, gas to liquids technologies, coal to liquids technologies, biofuel technologies, and shale oil. Totals may not equal sum of components due to independent rounding.

Sources: History: Energy Information Administration (EIA), Energy Markets and Contingency Information Division. Projections: EIA, System for the Analysis of Global Energy Markets (2005); and U.S. Department of the Interior, U.S. Geological Survey, World Petroleum Assessment 2000 (Reston, VA, July 2000).

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Table E5. World Oil Production by Region and Country, High Oil Price Case, 1990-2025
(Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2002	2010	2015	2020	2025
Conventional Production	66.7	76.6	88.5	92.6	97.3	102.4
OPEC	24.5	30.2	32.0	31.2	33.1	35.0
Asia	1.5	1.4	1.3	1.2	1.1	1.0
Middle East	16.2	20.9	22.3	21.8	23.3	25.1
North Africa	2.7	3.0	3.1	3.0	3.2	3.1
West Africa	1.8	2.0	2.2	2.1	2.3	2.4
South America	2.3	2.9	3.1	3.1	3.2	3.4
Non-OPEC	42.2	46.4	56.5	61.4	64.2	67.4
Mature Market Economies	20.1	22.9	24.3	24.1	23.9	23.2
United States	9.7	9.3	10.1	10.1	10.1	9.8
Canada	2.0	2.1	1.9	1.7	1.7	1.7
Mexico	3.0	3.6	4.5	4.9	5.1	5.3
Western Europe	4.6	6.9	6.7	6.3	5.9	5.4
Japan	0.1	0.2	0.1	0.1	0.1	0.1
Australia and New Zealand	0.7	0.8	1.0	1.0	1.0	0.9
Transitional Economies	11.7	9.5	14.4	16.9	18.1	20.0
Former Soviet Union	11.4	9.3	14.0	16.5	17.7	19.5
Russia	11.4	7.7	10.7	11.6	12.0	12.5
Caspian and Other FSU	0.0	1.6	3.3	4.9	5.7	7.0
Eastern Europe	0.3	0.2	0.4	0.4	0.4	0.5
Emerging Economies	10.4	14.0	17.8	20.4	22.2	24.2
China	2.8	3.0	3.7	3.7	3.8	3.7
Other Asia	1.7	2.4	2.8	3.0	2.9	2.9
Middle East	1.4	1.9	2.4	2.6	2.8	3.0
Africa	2.1	2.9	4.1	5.2	6.1	7.4
Central and South America	2.4	3.8	4.8	5.9	6.6	7.2
Nonconventional Production	0.0	1.5	4.3	7.1	8.8	10.5
United States	0.0	0.0	0.1	0.4	0.8	1.2
Other North America	0.0	0.8	2.1	3.7	4.2	4.7
Western Europe	0.0	0.0	0.1	0.1	0.1	0.1
Asia	0.0	0.0	0.1	0.1	0.2	0.2
Middle East	0.0	0.0	0.2	0.3	0.4	0.6
Africa	0.0	0.2	0.3	0.5	0.6	0.7
Central and South America	0.0	0.5	1.4	2.0	2.5	3.0
Liquids Production	66.7	78.1	92.8	99.7	106.1	112.9
OPEC	24.5	30.6	33.3	33.0	35.4	37.9
Non-OPEC	42.2	47.5	59.6	66.7	70.7	75.1
Persian Gulf Production as a Percentage of World Consumption	24.4%	26.7%	22.7%	20.1%	19.7%	18.4%

Notes: OPEC = Organization of Petroleum Exporting Countries. Conventional production includes crude oil (including lease condensates), natural gas liquids, other hydrogen hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

Nonconventional liquids include production from oil sands, ultra-heavy oils, gas to liquids technologies, coal to liquids technologies, biofuel technologies, and shale oil. Totals may not equal sum of components due to independent rounding.

Sources: History: Energy Information Administration (EIA), Energy Markets and Contingency Information Division. Projections: EIA, System for the Analysis of Global Energy Markets (2005); and U.S. Department of the Interior, U.S. Geological Survey, World Petroleum Assessment 2000 (Reston, VA, July 2000).

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Table E6. World Oil Production by Region and Country, Low Oil Price Case, 1990-2025
(Million Barrels per Day)

Region/Country	History (Estimates)		Projections			
	1990	2002	2010	2015	2020	2025
Conventional Production	66.7	76.6	96.4	106.1	115.9	126.6
OPEC	24.5	28.3	43.4	50.3	58.7	67.6
Asia	1.5	1.4	1.8	1.9	1.9	2.0
Middle East	16.2	19.0	30.3	35.1	41.4	48.4
North Africa	2.7	3.0	4.3	4.9	5.7	6.0
West Africa	1.8	2.0	2.9	3.4	4.0	4.7
South America	2.3	2.9	4.1	5.0	5.7	6.5
Non-OPEC	42.2	48.3	53.0	55.8	57.2	59.0
Mature Market Economies	20.1	22.9	22.8	22.0	21.4	20.4
United States	9.7	9.3	9.5	9.1	8.9	8.4
Canada	2.0	2.1	1.8	1.6	1.6	1.5
Mexico	3.0	3.6	4.2	4.5	4.5	4.7
Western Europe	4.6	6.9	6.3	5.8	5.4	4.9
Japan	0.1	0.2	0.1	0.1	0.1	0.1
Australia and New Zealand	0.7	0.8	0.9	0.9	0.9	0.8
Transitional Economies	11.7	11.4	13.4	15.3	16.2	17.3
Former Soviet Union	11.4	11.2	13.1	14.9	15.8	16.9
Russia	11.4	9.6	10.0	10.5	10.6	10.9
Caspian and Other FSU	0.0	1.6	3.1	4.4	5.2	6.0
Eastern Europe	0.3	0.2	0.3	0.4	0.4	0.4
Emerging Economies	10.4	14.0	16.8	18.5	19.6	21.3
China	2.8	3.0	3.6	3.4	3.4	3.3
Other Asia	1.7	2.4	2.6	2.7	2.6	2.6
Middle East	1.4	1.9	2.2	2.4	2.5	2.7
Africa	2.1	2.9	3.8	4.7	5.3	6.5
Central and South America	2.4	3.8	4.6	5.3	5.8	6.2
Nonconventional Production	0.0	1.5	2.6	4.0	4.3	4.3
United States	0.0	0.0	0.0	0.0	0.0	0.0
Other North America	0.0	0.8	1.6	2.7	2.8	2.9
Western Europe	0.0	0.0	0.0	0.0	0.0	0.0
Asia	0.0	0.0	0.0	0.0	0.0	0.0
Middle East	0.0	0.0	0.0	0.0	0.0	0.0
Africa	0.0	0.2	0.2	0.2	0.2	0.2
Central and South America	0.0	0.5	0.8	1.1	1.3	1.2
Liquids Production	66.7	78.1	99.0	110.1	120.2	130.9
OPEC	24.5	28.7	44.0	51.1	59.7	68.5
Non-OPEC	42.2	49.4	55.0	59.0	60.5	62.4
Persian Gulf Production as a Percentage of World Consumption	24.4%	24.3%	30.6%	31.9%	34.5%	37.0%

Notes: OPEC = Organization of Petroleum Exporting Countries. Conventional production includes crude oil (including lease condensates), natural gas liquids, other hydrogen hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

Nonconventional liquids include production from oil sands, ultra-heavy oils, gas to liquids technologies, coal to liquids technologies, biofuel technologies, and shale oil. Totals may not equal sum of components due to independent rounding.

Sources: History: Energy Information Administration (EIA), Energy Markets and Contingency Information Division. Projections: EIA, System for the Analysis of Global Energy Markets (2005); and U.S. Department of the Interior, U.S. Geological Survey, World Petroleum Assessment 2000 (Reston, VA, July 2000).