

volume 1 World Oil Review 2018

World Oil Review 2018

Energy industry issues keep attracting everyone's attention as never before. We are living in a time of profound changes and increasing challenges in the industries of oil, gas and renewables.

Our 17th World Oil, Gas and Renewables Review tries to provide more clarity on these trends. Same as last year, the analysis is split in two volumes. This first volume, the World Oil Review, is devoted to oil with a special focus on the evolution of crude oil quality and the refining industry. In autumn we will publish the second volume, the World Gas and Renewables Review, focused on natural gas and renewables sources (solar, wind and biofuels).

The main highlights of this oil review are the following:

- Oil demand is reflecting an unabated trend of growth. In 2017, it grew by 1.7%, above the five-year average of 1.5% recorded in 2012-2016. In ten years, global liquid consumption, jumped from 87 mln boe/d to more than 97 mln boe/d. Notwithstanding a positive contribution to demand growth also came from OECD countries in 2017, their weight on total consumption has declined from 58% in 2007 to 48% nowadays. It is a material geographical shift that will have a great impact on future trends, crude oil flows and geopolitics.
- At the same time, emerging countries with a larger use of oil in chemicals, transportation and industry increased their consumption by 37% in the past ten years, that is 13 mln boe/d, the equivalent of the entire oil demand of the European Union.
- On the supply side, the United States continues to be the main game-changer. While world
 production remained nearly flat with respect to last year, the United States delivered one of
 the biggest increases in non-OPEC area production and confirms its leadership amongst
 producers, a position it first reached in 2014. It is an incredible result taking into account
 that in ten years the US increased its liquid output by 90%, thanks to tight oil production,
 and now US production is at an all-time high.
- OPEC that accounts for 42% of overall supply, contracted its production in 2017 due to the implementation of cuts agreed in November 2016. The OPEC cuts along with the output decline in some countries drove a decrease in Medium & Sour volumes (-3%). On the other side, recovery in Libyan and US tight oil production led to an increase in Light & Sweet crudes (+5%).
- In the last ten years Light oil production grew by 17%, an unforeseeable trend before the development of tight oil, with important implications on the world of refineries and price differentials.

The energy world is changing and is changing fast. I hope this statistical review might be your compass within the intricate dynamics of the energy markets, helping you in understanding more deeply the main trends of one of the most fascinating, complex and essential industries.

Claudio Descalzi Chief Executive Officer and General Manager

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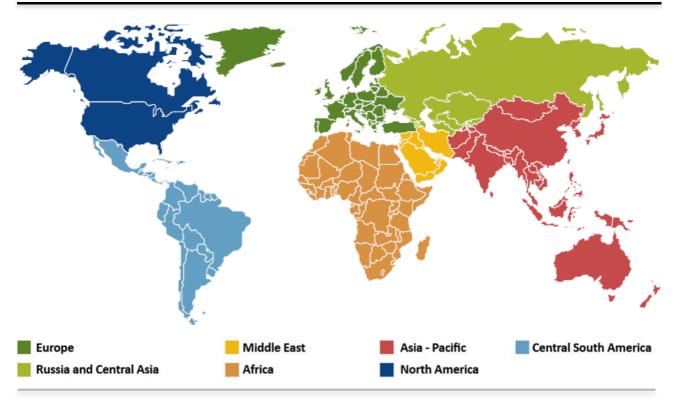
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List of Countries:

- Europe: Albania, Austria, Belarus, Belgium, Bosnia Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Gibraltar, Greece, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine and United Kingdom.
- Russia and Central Asia: Russia, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan.
- Middle East: Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates and Yemen
- Africa: Algeria, Angola, Benin, Cameroon, Chad, Congo, Côte d'Ivoire, Dem. Rep. Congo, Egypt, Equatorial Guinea, Ethiopia, Gabon, Ghana, Kenya, Libya, Madagascar, Mauritania, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, South Africa, Sudan, Tanzania, Tunisia, Uganda, Zambia and Zimbabwe.
- Asia Pacific: Afghanistan, Australia, Bangladesh, Brunei, China, East Timor, Hong Kong, India, Indonesia, Japan, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, North Korea, Pakistan, Papua New Guinea, Philippines, Singapore, South Korea, Sri Lanka, Taiwan, Thailand and Vietnam.
- Americas: North America, Central South America.
- North America: Canada and the United States.
- Central South America: Argentina, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela.
- European Union: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and United Kingdom.
- OECD: Australia, Austria, Belgium, Canada, Chile, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom and United States.
- **OPEC**: Algeria, Angola, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela.
- MENA (Middle East and North Africa): Bahrain, Iran, Iran, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen and Algeria, Egypt, Libya, Morocco, Tunisia.

This Review adopts the most commonly used names for countries and not necessarily the official name.

The names used do not in any way indicate the opinion of Eni on the legal status of countries, territories, cities or areas mentioned. The term "country" is used to indicate, when necessary, also a territory or area. Borders between countries are indicated on the maps and do not imply judgement of any kind or the position of Eni with regard to current international disputes.

This Review has been prepared by the Scenarios, Strategic Options & Investor Relations Department.

Notes and Methods

The sources of the data are: CME, DECC, EIA DOE, Enerdata, ICE, ICIS Consulting, International Energy Agency, IHS Global Insight, Italian Ministry for Economic Development, Norwegian Petroleum Directorate, Oil & Gas Journal, OPEC, PIRA, PIW, Wood MacKenzie and other official sources.

In all the chapters of oil, in some countries figures may include oil from non conventional sources and others sources of supply.

The figures for **'Reserves'** refer to proven reserves as at 31st December. The figures for other chapters indicate annual averages.

Blank spaces in the tables indicate that the figure was not available, zero indicates a figure that is not significant (except for the chapters **'Production Quality'** where "zero" is used for both not available and not significant figures). Total may differ from the sum of the individual figures as a result of rounding up/down. Percentages have been calculated before rounding.

Data for Sudan also include South Sudan.

Supply and Demand

Trade and Prices

The difference between the Consumption and the Production of oil is given by the change in stocks, the processing gains obtained in refining and the amount of biofuels which is not included in Production.

In all the chapters, the list of the "The world top 10..." is drawn up by ordering the countries on the basis of the last available year. In the chapters "Reserves/Production Ratio" and "Production/Consumption Ratio", the list of the "The world top 10..." is drawn up by selecting the largest producers in the last available year and ordering them on the basis of the value of the reserves/production and production/consumption ratio. In the chapter "Per Capita Consumption", the list of the world top is drawn up by selecting the largest consumers in the last available year and ordering them by the value of per capita consumption.

Production Quality

In the chapter **'Production Quality'** figures for total oil production in each area or country do not coincide with the figures in the **'Production'** chapter of the Review. This is due to the exclusion of natural gas liquids and extra heavy crude from the figures for the first (except for Venezuela). Moreover, it has not been possible to allocate or define total production. In some countries the 'Ultra Light' category also includes, in total or in part, the production of condensates. For Canada the production includes syncrude.

API degree is used universally to express a crude's relative density. The arbitrary formula used to obtain it is: API gravity = $(141.5/SG \text{ at } 60^{\circ}F) - 131.5$, where SG is the specific gravity of the fluid. Lighter the crude, higher the API gravity. The API scale was designed so that most values would fall between 10 and 70 API gravity degrees. Fresh water has an API density of 10.

Atmospheric distillates yields are obtained according to TBP (True Boiling Point) technique, ASTM D2892 procedure. Figures are expressed in mass percentage.

For the definition of the qualitative parameters for single crudes, the data of "Eni-R&M Division - San Donato Research Center - Downstream Products Technologies" have been used, wherever possible. Quality levels, indicating API gravity and sulphur content, are defined as follows.

Quality levels - API gravity and sulphur content

Ultra Light	API level equal to or greater than 50° and a low sulphur content
Light & Sweet	API level equal to or greater than 35° and less than 50°, sulphur content less 0.5%
Light & Medium Sour	API level equal to or greater than 35° and less than 50°, sulphur content equal to or greater than 0.5% and less than 1%
Light & Sour	API level equal to or greater than 35° and less than 50°, sulphur content equal to or greater than 1%
Medium & Sweet	API level equal to or greater than 26° and less than 35° , sulphur content less 0.5%
Medium & Medium Sour	
Medium & Sour Heavy & Sweet	API level equal to or greater than 26° and less than 35°, sulphur content equal to or greater than 1% API level equal to or greater than 10° and less than 26°, sulphur content less 0.5%
Heavy & Medium Sour	API level equal to or greater than 10° and less than 26° , sulphur content equal to or greater than 0.5% and less than 1%
Heavy & Sour	API level equal to or greater than 10° and less than 26°, sulphur content equal to or greater than 1%

Refining Industry

The "Refining Capacity" set of tabulations provides the following information:

- Refineries: includes asphalt and lube oriented units, when dedicated topping capacity is present. Condensate refineries are included.
- Primary Capacity: represents a pro rated annual average of available capacity, excluding turnarounds.
- Conversion Capacity (FCC eqv.): sum of conversion capacity, converted to "Catcracking (FCC) equivalent" capacity. "FCC equivalent" capacity equals 1; other conversion capacities can be higher or lower than 1 (the equivalent factors are reported below in the next table).
- Complexity Capacity FCC eqv.: ratio of Conversion Capacity (converted to FCC equivalent) over Primary Capacity, calculated on a weight basis. The higher is the complexity index, the higher is the capability of a refinery to produce high equivalent quality and value products.
- Complexity Ratio NCI (Nelson Complexity Index): is another measure of secondary conversion capacity in comparison
 to the primary distillation capacity. The units are rated in terms of their costs relative to the primary distillation unit. The
 higher is the index the higher is the capability of a refinery to produce high quality and value products.

The equivalent factors for the FCC equivalent calculation, reported below, change according to the type and the configuration of the conversion unit and are from ICIS Consulting. The factors for the Nelson calculation are standard factors, modified as necessary by Eni. Oxygenates and Aromatics are excluded.

Conversion type		Conversion type			
Alkylation	0.00	10.00	– Hydrodesulf-diesel	0.00	2.50
Alkylation-hydrofluoric	0.00	10.00	Hydrodesulf-gasoline	0.00	2.50
Alkylation-sulfunic	0.00	10.00	Hydrodesulf-kero	0.00	2.50
Asphalt	0.25	1.50	Hydrodesulf-mid-distillates	0.00	2.50
Coking-delayed	1.35	6.00	Hydrodesulf-naphta	0.00	2.50
Coking-f/d	1.35	6.00	Hydrodesulf-residue	0.20	2.50
Coking-fluid	1.35	6.00	Hydrodesulf-gvgo	0.05	2.50
Coking-fxc	1.35	6.00	lsomerization-c4	0.00	15.00
Condensate distillation	0.00	1.00	Isomerization-In	0.00	15.00
Crude	0.00	1.00	Lube	0.50	60.00
Deasphalting	0.00	1.50	Polymerization	0.00	10.00
Deasphalting-c3	0.00	1.50	Reforming-aromax	0.00	5.00
Deasphalting-c4	0.00	1.50	Reforming-btx	0.00	5.00
Deep catcraking	1.10	6.00	Reforming-cc	0.00	5.00
Distillate dewaxing	0.10	85.00	Reforming-cyclic	0.00	5.00
Fluid cat-cracking	1.00	6.00	Reforming-lpg feed	0.00	5.00
Fluid catcracking-residue	1.90	6.00	Reforming-sr	0.00	5.00
Heavy residual gasification	1.30	12.00	Thermal cat-cracking	0.80	2.75
Hydrocracking-distillates	1.30	6.00	Thermal cracking	0.65	2.75
Hydrocracking-mild	0.30	6.00	Vacuum	0.00	2.00
Hydrocracking-residue	0.40	6.00	Visbreaking	0.25	2.75

Reserves Production Reserves/Production Ratio Consumption Per Capita Consumption Production/Consumption Ratio

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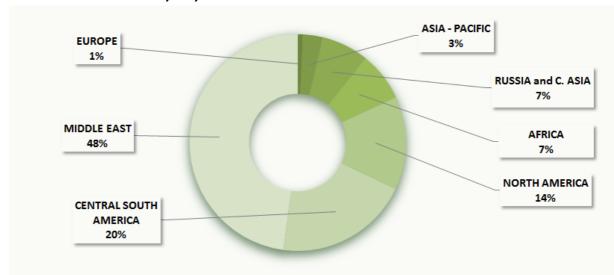
Areas and Aggregates (*)

(million	barrels	as	at 3	5] st)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Europe	19,429	16,121	12,865	11,621	12,856	12,976	0.9%	-2.3%
Russia and Central Asia	56,384	77,228	98,283	118,284	118,284	118,284	0.0%	4.5%
Middle East	692,991	751,691	794,599	802,851	807,666	804,575	-0.4%	0.9%
Africa	92,882	110,900	124,346	124,081	124,452	123,313	-0.9%	1.7%
Asia - Pacific	47,686	42,926	45,542	49,643	49,972	50,083	0.2%	0.3%
Americas	330,973	319,986	535,571	545,933	570,017	570,773	0.1%	3.3%
- North America	205,021	203,063	200,029	206,742	233,141	233,337	0.1%	0.8%
- Central South America	125,953	116,923	335,542	339,191	336,877	337,436	0.2%	6.0%
World	1,240,345	1,318,851	1,611,207	1,652,413	1,683,247	1,680,004	-0.2%	1.8%
European Union	8,776	7,236	6,025	5,328	5,096	5,146	1.0%	-3.1%
MENA	743,680	809,686	858,722	868,240	873,055	869,964	-0.4%	0.9%
OECD	255,828	234,619	225,869	230,780	255,925	256,241	0.1%	0.0%
NON OECD	984,517	1,084,232	1,385,338	1,421,633	1,427,322	1,423,763	-0.2%	2.2%
OPEC	849,573	927,596	1,196,272	1,211,302	1,217,880	1,214,209	-0.3%	2.1%
NON OPEC	390,772	391,255	414,935	441,111	465,367	465,795	0.1%	1.0%

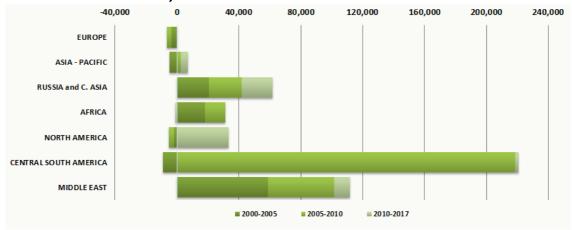
World Oil Reserves (2017)

1,680,004 million barrels as at 31st December



World Oil Reserves Growth (2000-2017)

439,659 million barrels as at 31st December

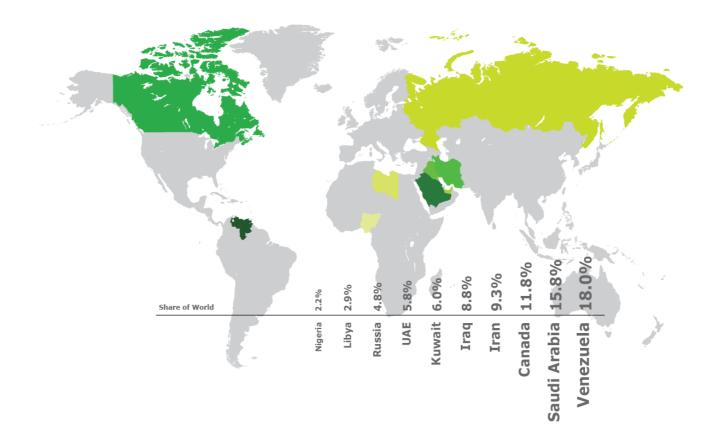


(*) Data source: Eni's estimates on Enerdata Global Energy Market & CO2 Data and other official data sources.

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	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Venezuela	76,848	80,012	296,501	300,878	302,250	302,809	0.2%	8.4%
Saudi Arabia	262,766	264,211	264,516	266,455	266,208	266,260	0.0%	0.1%
Canada	181,504	180,044	174,848	171,512	197,928	197,928	0.0%	0.5%
Iran	99,530	136,270	151,170	158,400	157,200	155,600	-1.0%	2.7%
Iraq	112,500	115,000	143,100	142,503	148,766	147,223	-1.0%	1.6%
Kuwait	96,500	101,500	101,500	101,500	101,500	101,500	0.0%	0.3%
United Arab Emirates	97,800	97,800	97,800	97,800	97,800	97,800	0.0%	0.0%
Russia	48,573	60,000	60,000	80,000	80,000	80,000	0.0%	3.0%
Libya	36,000	41,464	47,097	48,363	48,363	48,363	0.0%	1.8%
Nigeria	29,000	36,220	37,200	37,062	37,453	37,453	0.0%	1.5%
The World Top 10	1,041,021	1,112,521	1,373,732	1,404,473	1,437,468	1,434,936	-0.2%	1.9%
Rest of the world	199,325	206,330	237,475	247,940	245,780	245,069	-0.3%	1.2%
World	1,240,345	1,318,851	1,611,207	1,652,413	1,683,247	1,680,004	-0.2%	1.8%

The World Top 10 (2017)



(*) Data source: Eni's estimates on Enerdata Global Energy Market & CO₂ Data and other official data sources.

Countries^(*)

(million barrels as at 31th December)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Europe	19,429	16,121	12,865	11,621	12,856	12,976	0.9%	-2.3%
Albania	176	200	204	178	177	177	0.0%	0.1%
Austria	92	63	51	49	49	49	0.0%	-3.7%
Belarus	211	200	203	205	204	204	0.0%	-0.2%
Bulgaria	16	15	15	16	15	15	0.0%	-0.2%
Croatia	98	70	73	74	73	73	0.0%	-1.7%
Czech Republic	16	15	15	16	16	16	0.0%	-0.2%
Denmark	1,113	1,277	899	491	440	440	0.0%	-5.3%
France	155	159	93	88	88	88	0.0%	-3.3%
Germany	405	370	283	263	262	262	0.0%	-2.5%
Greece	11	7	10	10	10	10	0.0%	-0.2%
Hungary	117	104	28	28	28	28	0.0%	-8.1%
ltaly (**)	577	443	559	595	521	571	9.6%	-0.1%
Lithuania	13	12	12	12	12	12	0.0%	-0.2%
Netherlands	114	107	318	141	113	113	0.0%	0.0%
Norway	9,447	7,705	5,670	5,139	6,611	6,681	1.1%	-2.0%
Poland	123	97	99	163	162	162	0.0%	1.7%
Romania	1,170	458	600	600	600	600	0.0%	-3.9%
Serbia	83	79	80	81	81	81	0.0%	-0.2%
Slovakia	10	9	9	9	9	9	0.0%	-0.2%
Spain	22	159	154	156	155	155	0.0%	12.0%
Turkey	315	303	277	280	279	279	0.0%	-0.7%
Ukraine	421	399	405	410	408	408	0.0%	-0.2%
United Kingdom	4,725	3,870	2,805	2,618	2,542	2,542	0.0%	-3.6%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Russia and Central Asia	56,384	77,228	98,283	118,284	118,284	118,284	0.0%	4.5%
Russia	48,573	60,000	60,000	80,000	80,000	80,000	0.0%	3.0%
Azerbaijan	1,178	7,000	7,000	7,000	7,000	7,000	0.0%	11.1%
Georgia	37	35	36	36	36	36	0.0%	-0.2%
Kazakhstan	5,400	9,000	30,000	30,000	30,000	30,000	0.0%	10.6%
Kyrgyzstan	43	40	41	41	41	41	0.0%	-0.2%
Tajikistan	13	12	12	12	12	12	0.0%	-0.2%
Turkmenistan	546	546	600	600	600	600	0.0%	0.6%
Uzbekistan	594	594	594	594	594	594	0.0%	0.0%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Middle East	692,991	751,691	794,599	802,851	807,666	804,575	-0.4%	0.9%
Bahrain	160	126	128	130	129	129	0.0%	-1.3%
Iran	99,530	136,270	151,170	158,400	157,200	155,600	-1.0%	2.7%
Iraq	112,500	115,000	143,100	142,503	148,766	147,223	-1.0%	1.6%
Israel	4	2	2	12	12	12	0.0%	6.5%
Jordan	1	1	1	1	1	1	0.0%	0.4%
Kuwait	96,500	101,500	101,500	101 <i>,</i> 500	101,500	101,500	0.0%	0.3%
Oman	5,848	5,572	5,500	5,306	5,306	5,306	0.0%	-0.6%
Qatar	13,157	25,288	25,382	25,244	25,244	25,244	0.0%	3.9%
Saudi Arabia	262,766	264,211	264,516	266,455	266,208	266,260	0.0%	0.1%
Syria	2,325	3,000	2,500	2,500	2,500	2,500	0.0%	0.4%
United Arab Emirates	97,800	97,800	97,800	97,800	97,800	97,800	0.0%	0.0%
Yemen	2,400	2,921	3,000	3,000	3,000	3,000	0.0%	1.3%

(*) Data source: Eni's estimates on Enerdata Global Energy Market & CO2 Data and other official data sources.

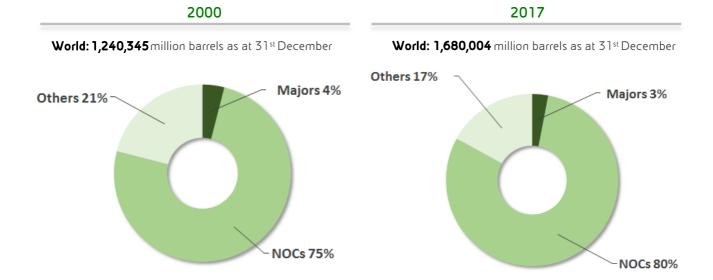
** The original data are from Italian Ministry for Economic Development. They have been converted by Eni considering 1 ton of oil equal to 7.3 barrels.

Countries^(*)

		0.005	0.000				∆y/y	CAGR
	2000	2005	2010	2015	2016	2017	(2017-2016)	(2017-2000
Africa	92,882	110,900	124,346	124,081	124,452	123,313	-0.9%	1.79
Algeria	11,314	12,270	12,200	12,200	12,200	12,200	0.0%	0.49
Angola	5,972	9,035	9,500	9,524	9,523	8,384	-12.0%	2.09
Benin	9	8	8	8	8	8	0.0%	-0.29
Cameroon	426	404	205	207	206	206	0.0%	-4.29
Chad	900	1,500	1,500	1,500	1,500	1,500	0.0%	3.19
Congo	1,650	1,506	1,600	1,600	1,600	1,600	0.0%	-0.2
Côte d'Ivoire	107	101	103	104	103	103	0.0%	-0.2
Dem. Rep. Congo	199	189	185	187	186	186	0.0%	-0.4
Igypt	2,948	3,700	4,400	4,400	4,400	4,400	0.0%	2.4
quatorial Guinea	1,200	1,200	1,100	1,100	1,100	1,100	0.0%	-0.5
Gabon	2,420	2,146	2,000	2,000	2,000	2,000	0.0%	-0.5
Shana	18	17	677	2,000 684	681	2,000 681	0.0%	23.8
	36,000	41,464	47,097	48,363	48,363	48,363	0.0%	1.8
ibya Asusitasia	30,000	41,404	47,097	,		,	0.0%	1.0
Aauritania				21	21	21		()
1orocco	2	1	1	1	1	1	0.0%	-4.2
liger	0	0	0	147	147	147	0.0%	
ligeria	29,000	36,220	37,200	37,062	37,453	37,453	0.0%	1.5
ierra Leone	0	0	0	440	440	440	0.0%	
outh Africa	30	16	15	16	15	15	0.0%	-3.8
Sudan	262	563	5,000	1,500	1,500	1,500	0.0%	10.8
Tunisia	425	560	425	425	425	425	0.0%	0.0
Jganda	0	0	1,026	2,593	2,580	2,580	0.0%	
	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000
							(2017-2010)	(2017-2000
sia - Pacific	47,686	42,926	45,542	49,643	49,972	50,083	0.2%	0.3
Australia	4,944	3,718	3,831	3,985	3,985	3,985	0.0%	-1.3
Bangladesh	61	28	29	29	29	29	0.0%	-4.3
Brunei	1,230	1,105	1,100	1,100	1,100	1,100	0.0%	-0.7
China	24,000	18,250	20,350	25,061	25,519	25,526	0.0%	0.4
ndia	5,290	5,919	4,818	4,535	4,409	4,409	0.0%	-1.1
ndonesia	5,123	4,188	3,990	3,230	3,230	3,310	2.5%	-2.5
apan	63	60	45	46	45	45	0.0%	-1.9
Malaysia	3,390	5,290	5,799	5,907	5,907	5,907	0.0%	3.3
Aongolia	15	15	15	257	257	257	0.0%	18.3
Ayanmar	53	50	51	52	52	52	0.0%	-0.2
New Zealand	135	53	116	84	84	84	0.0%	-2.8
Pakistan	222	292	321	257	256	256	0.0%	0.8
Papua New Guinea	384	242	90	160	159	183	15.3%	-4.3
hilippines	308	140	143	143	142	142	0.0%	-4.4
aiwan	4	2	2	2	2	2	0.0%	-4.2
Thailand	515	453	442	396	396	396	0.0%	-1.5
/ietnam	1,950	3,119	4,400	4,400	4,400	4,400	0.0%	4.9
							Δ y/y	CAGR
	2000	2005	2010	2015	2016	2017	(2017-2016)	(2017-2000
Americas	330,973	319,986	535,571	545,933	570,017	570,773	0.1%	3.3
Argentina	2,974	2,180	2,524	2,395	2,395	2,395	0.0%	-1.3
Barbados	3	3	2	2	2	2	0.0%	-2.5
Belize	0	0	7	7	7	7	0.0%	
Bolivia	423	445	477	218	217	217	0.0%	-3.9
Brazil	8,465	11,773	13,987	13,034	12,634	12,634	0.0%	2.4
Canada	181,504	180,044	174,848	171,512	197,928	197,928	0.0%	0.5
Chile	160	151	154	156	155	155	0.0%	-0.2
Colombia	1,972	1,453	1,900	2,308	2,002	2,002	0.0%	0.1
Cuba	302	757	127	129	128	128	0.0%	-4.9
Ecuador	4,566	5,180	7,206	8,273	8,273	8,273	0.0%	3.6
Guatemala	145	93	85	86	86	86	0.0%	-3.1
Mexico	28,260	12,882	10,420	9,711	7,219	7,219	0.0%	-7.7
	906	1,078	1,240	1,187	1,187	1,187	0.0%	1.6
Peru		112	81	80	79	79	0.0%	0.0
	79							
Suriname				728	243	243		-7 1
^D eru Suriname Trinidad and Tobago Jnited States	79 851 23,517	803 23,019	830 25,181	728 35,230	243 35,213	243 35,410	0.0% 0.6%	-7.1 2.4

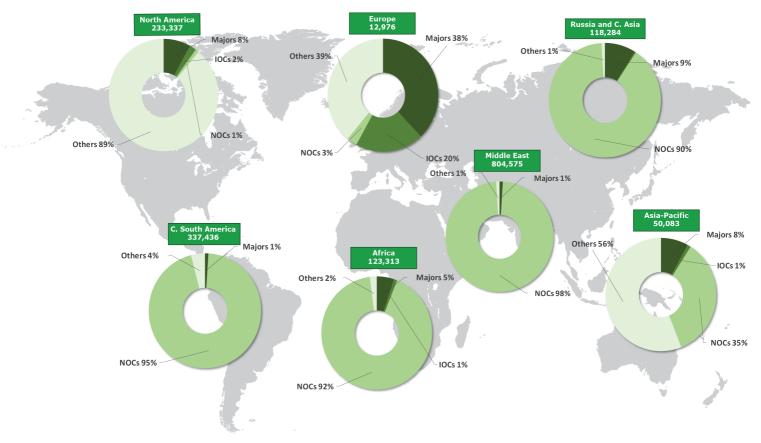
(*) Data source: Eni's estimates on Enerdata Global Energy Market & CO2 Data and other official data sources.

Cluster of Companies(*)



2017

(million barrels as at 31st December)



(*) Majors: ExxonMobil, BP, Shell, Chevron, Total, Eni, Statoil, ConocoPhillips, Anadarko, Marathon Oil, Apache. IOCs: BG, BHP Biliton, OMV, Repsol, Woodside Petroleum.

NOCs: ADNOC, Bahrain NOC, Bashneft, CNOOC, CNPC-PetroChina, CPC Taiwan, Dubai Petroleum, Ecopetrol, EGPC, Gazprom, INOC, Israel NOC, KazMunaiGaz, KNOC, KPC, Lukoil, Lybian NOC, MEDCO Energy, MOGE, Morocco NOC, Mubadala - Abu Dhabi, NIOC, NNPC, Novatek, Oil India, ONGC, Pakistan Oil Field, Pakistan Petroleum, PDO, PdVSA, Pemex, Pertamina, Petrobras, Petronas, PetroVietnam, PGNiG, PTTEP, QP, Rosneft, Saudi Aramco, Sinopec, SOCAR Azerbaijan, Sonangol, Sonatrach, Surgutneftegas, Syria Petroleum, Tatneft, Turkmengas, Uzbekneftegas, UPF.

Areas and Aggregates (*)

Crude and non conventional oil, natural gas liquids (thousand barrels/day)

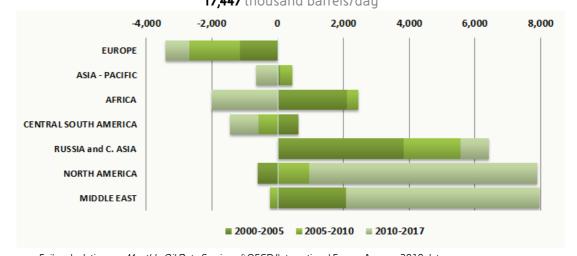
	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Europe	7,098	5,961	4,403	3,705	3,737	3,691	-1.2%	-3.8%
Russia and Central Asia	7,864	11,700	13,412	13,970	14,153	14,278	0.9%	3.6%
Middle East	23,510	25,588	25,366	29,846	31,678	31,247	-1.4%	1.7%
Africa	7,814	9,906	10,264	8,380	7,854	8,263	5.2%	0.3%
Asia - Pacific	7,929	8,003	8,380	8,313	7,992	7,723	-3.4%	-0.2%
Americas	20,994	21,012	21,390	27,771	26,938	27,454	1.9%	1.6%
- North America	10,726	10,118	11,084	17,371	17,006	1 <i>8,008</i>	5.9%	3.1%
- Central South America	10,268	10,894	10,306	10,400	9,932	9,446	-4.9%	-0.5%
World	75,209	82,171	83,217	91,984	92,351	92,656	0.3%	1.2%
European Union	3,570	2,802	2,074	1,575	1,567	1,553	-0.9%	-4.8%
MENA	27,206	29,962	29,531	32,626	34,426	34,335	-0.3%	1.4%
OECD	21,859	20,177	18,862	23,913	23,421	24,120	3.0%	0.6%
NON OECD	53,350	61,994	64,354	68,070	68,930	68,536	-0.6%	1.5%
OPEC	31,189	35,464	35,152	38,411	39,586	39,217	-0.9%	1.4%
NON OPEC	44,020	46,707	48,065	53,572	52,765	53,439	1.3%	1.1%

World Oil Production (2017)



92,656 thousand barrels/day

World Oil Production Growth (2000-2017)



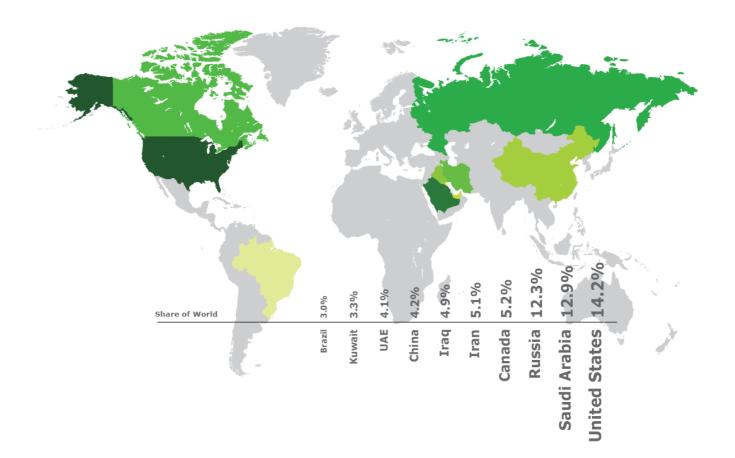
17,447 thousand barrels/day

(*) Data source: Eni's calculations on Monthly Oil Data Services OECD/International Energy Agency, 2018 data.

Crude and non conventional oil, natural gas liquids (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
United States	8,005	7,077	7,752	12,986	12,535	13,191	5.2%	3.0%
Saudi Arabia	9,348	10,927	9,971	12,047	12,440	11,964	-3.8%	1.5%
Russia	6,527	9,636	10,390	11,087	11,341	11,357	0.1%	3.3%
Canada	2,722	3,041	3,332	4,385	4,471	4,816	7.7%	3.4%
Iran	3,760	4,225	4,215	3,578	4,382	4,707	7.4%	1.3%
Iraq	2,582	1,833	2,430	4,088	4,508	4,568	1.3%	3.4%
China	3,261	3,596	4,031	4,271	3,981	3,871	-2.8%	1.0%
United Arab Emirates	2,622	2,994	2,831	3,782	3,888	3,770	-3.0%	2.2%
Kuwait	2,160	2,548	2,498	3,097	3,194	3,014	-5.6%	2.0%
Brazil	1,268	1,702	2,144	2,531	2,613	2,738	4.8%	4.6%
The World Top 10	42,254	47,580	49,593	61,852	63,352	63,998	1.0%	2.5%
Rest of the World	32,955	34,591	33,624	30,131	28,999	28,658	-1.2%	-0.8%
World	75,209	82,171	83,217	91,984	92,351	92,656	0.3%	1.2%

The World Top 10 (2017)



Countries (*)

Crude and non conventional oil, natural gas liquids (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Europe	7,098	5,961	4,403	3,705	3,737	3,691	-1.2%	-3.8%
Albania	6	8	13	25	23	21	-6.2%	8.0%
Austria	20	19	25	20	18	18	0.0%	-0.5%
Belarus	37	36	34	33	33	32	-2.0%	-0.8%
Bulgaria	1	1	1	1	1	1	0.0%	4.2%
Croatia	28	21	18	14	15	15	1.0%	-3.6%
Czech Republic	8	12	6	4	4	4	11.1%	-3.1%
Denmark	363	388	255	156	141	137	-2.9%	-5.6%
Estonia	5	5	10	16	14	18	29.9%	8.4%
France	44	36	31	24	23	23	-0.5%	-3.8%
Germany	86	113	76	71	71	69	-2.7%	-1.2%
Greece	6	2	2	1	3	3	-11.5%	-4.3%
Hungary	39	37	25	21	22	23	4.3%	-2.9%
Italy	78	124	108	109	74	79	6.6%	0.1%
Netherlands	49	47	36	42	29	27	-6.2%	-3.4%
Norway	3,331	2,962	2,138	1,948	1,995	1,969	-1.3%	-3.0%
Poland	15	28	19	31	32	32	1.0%	4.7%
Portugal	0	0	0	1	2	1	-4.5%	
Romania	131	113	89	81	78	74	-4.2%	-3.3%
Serbia	20	13	18	21	20	19	-3.9%	-0.2%
Slovakia	1	7	5	4	2	4	66.9%	7.4%
Spain	5	3	3	10	6	8	19.9%	3.0%
Turkey	53	44	48	48	49	49	-0.5%	-0.4%
Ukraine	82	97	79	54	50	48	-4.3%	-3.0%
United Kingdom	2,694	1,845	1,366	970	1,032	1,015	-1.6%	-5.6%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Russia and Central Asia	7,864	11,700	13,412	13,970	14,153	14,278	0.9%	3.6%
Russia	6,527	9,636	10,390	11,087	11,341	11,357	0.1%	3.3%
Azerbaijan	282	449	1,042	849	829	783	-5.5%	6.2%
Georgia	2	1	1	1	0	0	-9.6%	-9.3%
Kazakhstan	718	1,293	1,694	1,695	1,666	1,840	10.4%	5.7%
Kyrgyzstan	2	2	1	1	1	1	-9.5%	-2.4%
Turkmenistan	158	201	196	273	253	238	-6.2%	2.4%
Uzbekistan	175	118	88	64	62	59	-5.4%	-6.2%

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Middle East	23,510	25,588	25,366	29,846	31,678	31,247	-1.4%	1.7%
Bahrain	198	198	192	213	212	219	3.0%	0.6%
Iran	3,760	4,225	4,215	3,578	4,382	4,707	7.4%	1.3%
Iraq	2,582	1,833	2,430	4,088	4,508	4,568	1.3%	3.4%
Kuwait	2,160	2,548	2,498	3,097	3,194	3,014	-5.6%	2.0%
Oman	958	777	871	989	1,012	978	-3.3%	0.1%
Qatar	860	1,216	1,668	1,993	2,001	1,977	-1.2%	5.0%
Saudi Arabia	9,348	10,927	9,971	12,047	12,440	11,964	-3.8%	1.5%
Syria	573	448	385	27	25	25	-2.3%	-16.9%
United Arab Emirates	2,622	2,994	2,831	3,782	3,888	3,770	-3.0%	2.2%
Yemen	450	421	306	32	16	25	53.7%	-15.6%

(*) Data source: *Monthly Oil Data Services* • OECD/International Energy Agency, 2018.

Countries (*)

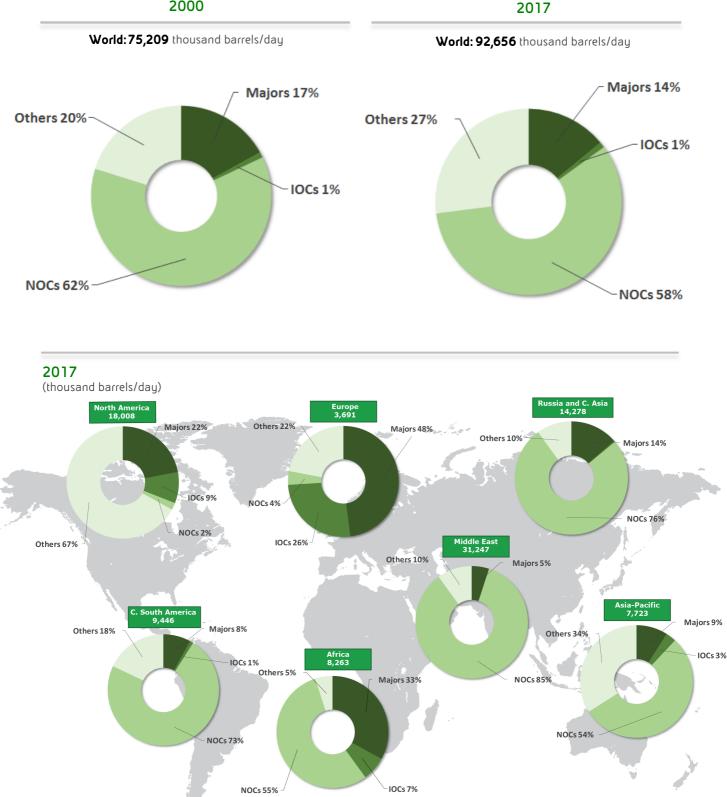
Crude and non conventional oil, natural gas liquids (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Africa	7,814	9,906	10,264	8,380	7,854	8,263	5.2%	0.3%
Algeria	1,436	1,931	1,720	1,590	1,604	1,530	-4.6%	0.4%
Angola	745	1,245	1,820	1,830	1,783	, 1,738	-2.5%	5.1%
Cameroon	114	89	64	95	90	75	-16.7%	-2.4%
Chad	0	170	120	129	120	121	0.5%	
Congo	265	247	314	248	251	293	16.7%	0.6%
Côte d'Ivoire	7	40	39	27	43	51	19.9%	12.4%
Dem. Rep. Congo	23	25	25	22	21	20	-4.9%	-0.9%
Egypt	711	649	700	697	665	640	-3.9%	-0.6%
Equatorial Guinea	144	380	311	276	231	212	-8.6%	2.3%
Gabon	276	270	249	230	227	200	-11.7%	-1.9%
Ghana	7	6	7	106	92	167	82.4%	20.5%
Libya	1,471	1,721	1,661	437	426	872	104.8%	-3.0%
Mauritania	0	0	9	5	4	4	-9.6%	
Morocco	0	1	0	0	0	0	0.0%	-1.3%
Niger	0	0	0	17	17	17	0.0%	
Nigeria	2,160	2,546	2,535	2,258	1,926	2,000	3.9%	-0.5%
South Africa	199	208	141	106	103	101	-1.4%	-3.9%
Sudan	177	305	465	253	198	176	-11.3%	0.0%
Tunisia	78	73	83	55	52	46	-12.1%	-3.0%
	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Asia - Pacific	7,929	8,003	8,380	8,313	7,992	7,723	-3.4%	-0.2%
Australia	802	545	553	377	351	320	-8.7%	-5.3%
Bangladesh	4	6	5	4	4	4	-4.9%	-0.7%
Brunei	195	206	169	127	121	110	-8.7%	-3.3%
China	3,261	3,596	4,031	4,271	3,981	3,871	-2.8%	1.0%
East Timor	, 0	100	, 88	, 60	, 49	, 40	-18.2%	
India	770	771	893	861	848	857	1.0%	0.6%
Indonesia	1,447	1,086	993	822	877	847	-3.5%	-3.1%
Japan	17	18	18	12	11	11	-0.8%	-2.6%
Malaysia	711	794	717	701	708	695	-1.8%	-0.1%
Mongolia	0	1	6	24	23	22	-4.9%	32.7%
Myanmar	12	22	19	13	12	12	-2.1%	-0.2%
New Zealand	45	37	60	48	40	37	-8.6%	-1.1%
Pakistan	58	66	66	106	104	97	-6.8%	3.1%
Papua New Guinea	64	54	31	58	56	51	-8.7%	-1.3%
Philippines	1	23	20	17	17	15	-9.5%	17.8%
South Korea	13	10	21	22	24	25	7.1%	4.0%
Taiwan	1	1	0	0	0	0		-100.0%
Thailand	194	297	383	452	457	432	-5.5%	4.8%
Vietnam	333	372	308	338	309	277	-10.4%	-1.1%
	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Americas	20,994	21,012	21,390	27,771	26,938	27,454	1.9%	1.6%
Argentina	863	831	712	629	608	576	-5.1%	-2.3%
Barbados	1	1	1	1	1	1	10.5%	-2.6%
Bolivia	39	58	51	74	70	68	-3.7%	3.3%
Brazil	1,268	1,702	2,144	2,531	2,613	2,738	4.8%	4.6%
Canada	2,722	3,041	3,332	4,385	4,471	4,816	7.7%	3.4%
Chile	2,722	3,0+1	13	4,505	-,-,7	4,010	8.8%	-2.7%
Colombia	688	528	788	1,009	883	856	-3.1%	1.3%
Cuba	51	54	56	55	51	47	-6.7%	-0.5%
Ecuador	404	534	468	541	547	531	-3.0%	1.6%
Guatemala	21	18	12	10	9	8	-9.4%	-5.5%
Mexico	3,452	3,768	2,961	2,602	2,467	2,233	-9.5%	-2.5%
Peru	104	116	156	150	134	133	-0.7%	1.5%
Suriname	10	12	21	19	18	18	-4.9%	3.4%
Trinidad and Tobago	138	171	148	109	97	99	2.1%	-2.0%
-	8,005	7,077	7,752	12,986	12,535	13,191	5.2%	3.0%
United States		.,	.,	,_ 00	,	,	5.270	5.570
United States Venezuela	3,220	3,093	2,775	2,665	2,429	2,133	-12.2%	-2.4%

Production

Cluster of Companies(*)

2000



(*) Majors: ExxonMobil, BP, Shell, Chevron, Total, Eni, Statoil, ConocoPhillips, Anadarko, Marathon Oil, Apache. IOCs: BG, BHP Biliton, OMV, Repsol, Woodside Petroleum.

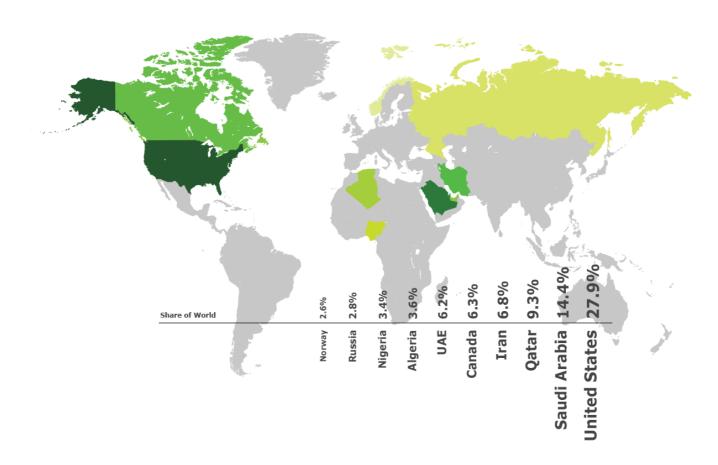
NOCs: ADNOC, Bahrain NOC, Bashneft, CNOOC, CNPC-PetroChina, CPC Taiwan, Dubai Petroleum, Ecopetrol, EGPC, Gazprom, INOC, Israel NOC, KazMunaiGaz, KNOC, KPC, Lukoil, Lybian NOC, MEDCO Energy, MOGE, Morocco NOC, Mubadala - Abu Dhabi, NIOC, NNPC, Novatek, Oil India, ONGC, Pakistan Oil Field, Pakistan Petroleum, PDO, PdVSA, Pemex, Pertamina, Petrobras, Petronas, PetroVietnam, PGNiG, PTTEP, QP, Rosneft, Saudi Aramco, Sinopec, SOCAR Azerbaijan, Sonangol, Sonatrach, Surgutneftegas, Syria Petroleum, Tatneft, Turkmengas, Uzbekneftegas, YPF.

The World Top 10 Natural Gas Liquids Producers (*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
United States	1,911	1,717	2,074	3,342	3,509	3,736	6.5%	4.0%
Saudi Arabia	1,011	1,493	1,710	1,805	1,940	1,924	-0.9%	3.9%
Qatar	173	442	898	1,192	1,198	1,242	3.7%	12.3%
Iran	75	346	510	732	830	908	9.4%	15.8%
Canada	706	668	608	708	792	847	7.0%	1.1%
United Arab Emirates	384	536	520	836	838	837	-0.1%	4.7%
Algeria	630	603	515	481	494	483	-2.2%	-1.6%
Nigeria	121	141	464	471	444	458	3.1%	8.1%
Russia	50	145	251	368	377	377	0.1%	12.6%
Norway	124	272	267	338	347	351	1.4%	6.3%
The World Top 10	5,185	6,365	7,816	10,272	10,769	11,164	3.7%	4.6%
Rest of the world	1,878	2,136	2,403	2,240	2,229	2,229	0.0%	1.0%
World	7,063	8,501	10,219	12,512	12,998	13,393	3.0%	3.8%

The World Top 10 (2017)



(*) Data source: Monthly Oil Data Services © OECD/International Energy Agency, 2018.

Areas and Aggregates (*)

(years)

	2000	2005	2010	2015	2016	2017
Europe	7	7	8	9	9	10
Russia and Central Asia	20	18	20	23	23	23
Middle East	81	80	86	74	70	71
Africa	33	31	33	41	43	41
Asia - Pacific	16	15	15	16	17	18
Americas	43	42	69	54	58	57
- North America	52	55	49	33	38	36
- Central South America	34	29	89	89	93	98
World	45	44	53	49	50	50
European Union	7	7	8	9	9	9
MENA	75	74	80	73	69	69
OECD	32	32	33	26	30	29
NON OECD	51	48	59	57	57	57
OPEC	75	72	93	86	84	85
NON OPEC	24	23	24	23	24	24

Reserves/Production Ratio (2017)

World:50 years



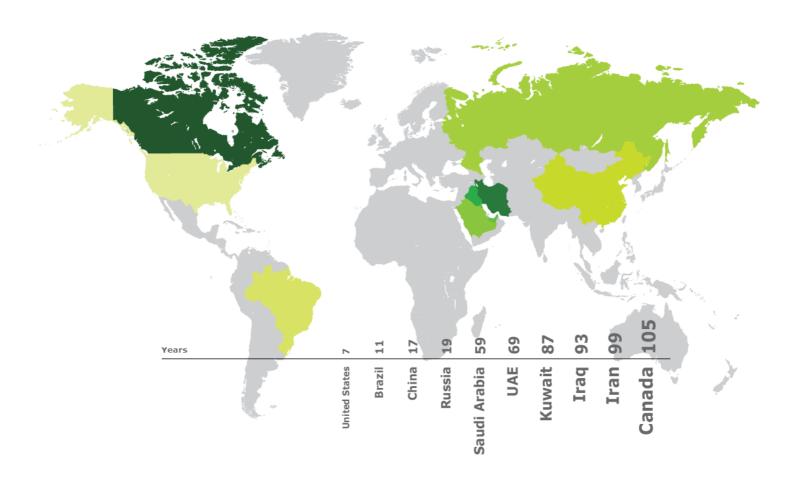
(*) Data source: Eni's calculations on Enerdata Global Energy &CO2 Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

The World Top 10 Producers Ranked by Reserves/Production Ratio^(*)

(years)

	2000	2005	2010	2015	2016	2017
Canada	183	162	144	107	121	113
Kuwait	122	109	111	90	87	92
Iran	73	88	98	121	98	91
Iraq	119	172	161	95	90	88
United Arab Emirates	102	89	95	71	69	71
Saudi Arabia	77	66	73	61	59	61
Russia	20	17	16	20	19	19
China	20	14	14	16	18	18
Brazil	18	19	18	14	13	13
United States	8	9	9	7	8	7

The World Top 10 (2017)



(*) Data source: Eni's calculations on Enerdata Global Energy &CO₂ Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

Countries (*)

(years)

	2000	2005	2010	2015	2016	2017
Europe	7	7	8	9	9	10
Albania	84	68	44	20	21	23
Austria	13	9	6	7	7	7
Belarus	16	15	16	17	17	18
Bulgaria	88	41	42	43	42	42
Croatia	9	9	11	14	13	13
Czech Republic	6	4	7	11	11	10
Denmark	8	9	10	9	9	9
France	10	12	8	10	11	11
Germany	13	9	10	10	10	10
Greece	5	11	12	23	9	10
Hungary	8	8	3	4	3	3
ltaly (**)	20	10	14	15	19	20
Netherlands	6	6	24	9	11	11
Norway	8	7	7	7	9	9
Poland	23	9	14	15	14	14
Romania	24	11	18	20	21	22
Serbia	11	16	12	11	11	12
Slovakia	22	3	5	7	11	6
Spain	13	131	131	43	66	55
, Turkey	16	19	16	16	15	16
Ukraine	14	11	14	21	22	23
United Kingdom	5	6	6	7	7	7

	2000	2005	2010	2015	2016	2017
Russia and Central Asia	20	18	20	23	23	23
Russia	20	17	16	20	19	19
Azerbaijan	11	43	18	23	23	24
Georgia	47	73	117	195	215	237
Kazakhstan	21	19	49	48	49	45
Kyrgyzstan	78	51	124	93	103	114
Tajikistan	88	100	168			
Turkmenistan	9	7	8	6	6	7
Uzbekistan	9	14	18	25	26	28

(*) Data source: Eni's calculations on Enerdata Global Energy & CO₂ Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

(**) The original data are from Italian Ministry for Economic Development and *Monthly Oil Data Services* ° OECD/International Energy Agency, 2018.

Countries (*)

(years)

	2000	2005	2010	2015	2016	2017
Middle East	81	80	86	74	70	71
Bahrain	2	2	2	2	2	2
Iran	73	88	98	121	98	91
Iraq	119	172	161	95	90	88
Kuwait	122	109	111	90	87	92
Oman	17	20	17	15	14	15
Qatar	42	57	42	35	35	35
Saudi Arabia	77	66	73	61	59	61
Syria	11	18	18	257	272	278
United Arab Emirates	102	89	95	71	69	71
Yemen	15	19	27	257	505	329

	2000	2005	2010	2015	2016	2017
Africa	33	31	33	41	43	41
Algeria	22	17	19	21	21	22
Angola	22	20	14	14	15	13
Cameroon	10	12	9	6	6	8
Chad		24	34	32	34	34
Congo	17	17	14	18	17	15
Côte d'Ivoire	42	7	7	11	7	6
Dem. Rep. Congo	24	21	20	23	25	26
Egypt	11	16	17	17	18	19
Equatorial Guinea	23	9	10	11	13	14
Gabon	24	22	22	24	24	27
Ghana	7	8	271	18	20	11
Libya	67	66	78	303	311	152
Mauritania			30	12	14	15
Morocco	21	4	13	13	13	13
Niger				24	24	24
Nigeria	37	39	40	45	53	51
Sudan	4	5	29	16	21	23
Tunisia	15	21	14	21	22	25

(*) Data source: Eni's calculations on Enerdata Global Energy &CO2 Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

Countries (*)

(years)

	2000	2005	2010	2015	2016	2017
Asia - Pacific	16	15	15	16	17	18
Australia	17	19	19	29	31	34
Bangladesh	42	13	16	20	21	22
Brunei	17	15	18	24	25	27
China	20	14	14	16	18	18
India	19	21	15	14	14	14
Indonesia	10	11	11	11	10	11
Japan	10	9	7	10	11	11
Malaysia	13	18	22	23	23	23
Mongolia	224	74	7	29	30	32
Myanmar	12	б	7	11	12	12
New Zealand	8	4	5	5	6	6
Pakistan	11	12	13	7	7	7
Papua New Guinea	16	12	8	8	8	10
Philippines		17	20	22	23	26
Taiwan	12	12				
Thailand	7	4	3	2	2	3
Vietnam	16	23	39	36	39	43

	2000	2005	2010	2015	2016	2017
Americas	43	42	69	54	58	57
Argentina	9	7	10	10	11	11
Barbados	9	8	6	9	10	9
Bolivia	30	21	26	8	8	9
Brazil	18	19	18	14	13	13
Canada	183	162	144	107	121	113
Chile	48	54	32	72	82	75
Colombia	8	8	7	6	6	6
Cuba	16	38	6	6	7	7
Ecuador	31	27	42	42	41	43
Guatemala	19	14	19	24	27	29
Mexico	22	9	10	10	8	9
Peru	24	25	22	22	24	24
Suriname	22	26	11	11	12	12
Trinidad and Tobago	17	13	15	18	7	7
United States	8	9	9	7	8	7
Venezuela	65	71	293	309	341	389

(*) Data source: Eni's calculations on Enerdata Global Energy &CO₂ Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

Areas and Aggregates (*)

(thousand barrels/day)

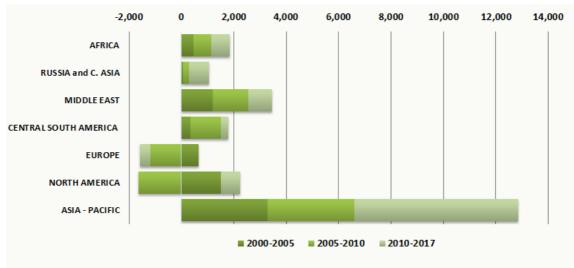
	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Europe	16,474	17,136	15,967	14,951	15,192	15,550	2.4%	-0.3%
Russia and Central Asia	3,243	3,303	3,528	4,154	4,253	4,293	0.9%	1.7%
Middle East	5,011	6,206	7,558	8,572	8,474	8,477	0.0%	3.1%
Africa	2,466	2,928	3,609	4,257	4,289	4,324	0.8%	3.4%
Asia - Pacific	20,885	24,178	27,480	31 <i>,</i> 818	32,667	33,729	3.3%	2.9%
Americas	29,060	30,904	30,422	31,264	31,303	31,442	0.4%	0.5%
- North America	22,007	23,506	21,858	22,212	22,378	22,602	1.0%	0.2%
- Central South America	7,053	7,398	8,564	9,051	8,925	8,841	-0.9%	1.3%
World	77,139	84,654	88,564	95,017	96,178	97 ,815	1.7%	1.4%
European Union	14,748	15,254	14,067	12,973	13,154	13,450	2.2%	-0.5%
MENA	6,265	7,663	9,323	10,529	10,456	10,433	-0.2%	3.0%
OECD	48,457	50,405	47,059	46,442	46,906	47,402	1.1%	-0.1%
NON OECD	28,682	34,249	41,505	48,575	49,272	50,413	2.3%	3.4%
OPEC	5,760	7,225	9,063	10,309	10,038	10,020	-0.2%	3.3%
NON OPEC	71,379	77,428	79,501	84,708	86,140	87,796	1.9%	1.2%

World Oil Consumption (2017)

97,815 thousand barrels/day



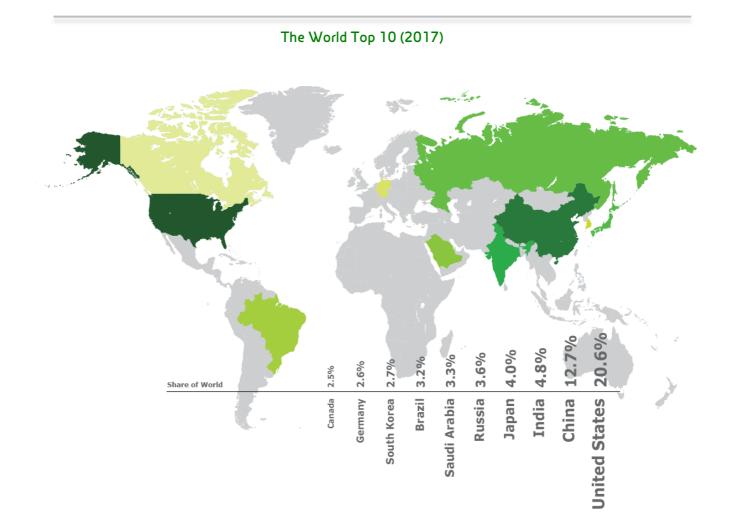
World Oil Consumption Growth (2000-2017) 20,676 thousand barrels/day



(*) Data source: Eni's calculations on *Monthly Oil Data Services* • OECD/International Energy Agency, 2018 data.

The World Top 10 Consumers (*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
United States	19,999	21,168	19,476	19,840	19,999	20,188	0.9%	0.1%
China	4,651	6,772	9,031	11,562	11,809	12,445	5.4%	6.0%
India	2,336	2,632	3,297	4,241	4,560	4,679	2.6%	4.2%
Japan	5,357	5,164	4,328	4,120	4,026	3,942	-2.1%	-1.8%
Russia	2,678	2,732	2,947	3,450	3,533	3,557	0.7%	1.7%
Saudi Arabia	1,571	1,941	2,674	3,415	3,264	3,221	-1.3%	4.3%
Brazil	2,135	2,173	2,774	3,177	3,074	3,088	0.4%	2.2%
South Korea	2,135	2,191	2,269	2,473	2,630	2,654	0.9%	1.3%
Germany	2,767	2,624	2,467	2,368	2,410	2,504	3.9%	-0.6%
Canada	2,008	2,338	2,382	2,372	2,379	2,414	1.5%	1.1%
The World Top 10	45,636	49,735	51,644	57,018	57,684	58,692	1.7%	1.5%
Rest of the World	31,503	34,918	36,920	37,999	38,494	39,123	1.6%	1.3%
World	77,139	84,654	88,564	95,017	96,178	97,815	1.7%	1.4%



(*) Data source: *Monthly Oil Data Services* • OECD/International Energy Agency, 2018.

Countries (*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Europe	16,474	17,136	15,967	14,951	15,192	15,550	2.4%	-0.3%
Albania	21	29	26	26	29	29	0.3%	2.0%
Austria	250	299	278	263	267	268	0.0%	0.4%
Belarus	119	148	151	139	137	137	0.0%	0.8%
Belgium	610	665	659	650	662	652	-1.6%	0.4%
Bosnia Herzegovina	23	23	34	31	32	33	2.8%	2.1%
Bulgaria	86	99	84	95	96	97	1.0%	0.7%
Croatia	82	94	78	69	72	73	1.4%	-0.7%
Cyprus	50	57	57	48	49	50	1.0%	0.0%
Czech Republic	170	213	202	196	180	216	19.8%	1.4%
Denmark	210	183	167	154	158	159	0.2%	-1.6%
Estonia	21	26	26	28	29	29	-0.7%	1.9%
Finland	213	221	214	199	201	196	-2.3%	-0.5%
France	2,001	1,990	1,821	1,692	1,657	1,706	3.0%	-0.9%
Germany	2,767	2,624	2,467	2,368	2,410	2,504	3.9%	-0.6%
Gibraltar	53	79	83	74	78	81	4.6%	2.6%
Greece	399	424	370	295	300	303	1.1%	-1.6%
Hungary	143	155	149	156	157	171	8.6%	1.0%
Iceland	16	17	15	17	20	21	5.7%	1.6%
Ireland	172	197	164	146	152	154	1.3%	-0.7%
Italy	1,854	1,781	1,544	1,274	1,253	1,283	2.4%	-2.1%
Kosovo	, 7	, 10	<i>,</i> 11	, 14	, 14	, 14	1.8%	4.1%
Latvia	28	36	37	37	38	38	1.4%	1.8%
Lithuania	59	59	56	57	58	60	2.6%	0.1%
Luxembourg	48	65	60	56	56	58	3.3%	1.1%
Macedonia	19	18	18	20	21	22	2.5%	0.9%
Malta	29	32	47	43	45	46	1.7%	2.8%
Moldova	13	14	17	18	18	18	2.2%	2.0%
Montenegro	2	6	7	6	6	6	3.0%	7.1%
Netherlands	929	1,086	1,026	962	973	964	-0.9%	0.2%
Norway	209	222	229	230	228	228	0.3%	0.5%
Poland	411	471	568	533	578	638	10.4%	2.6%
Portugal	333	337	274	238	234	238	2.1%	-1.9%
Romania	206	224	176	190	197	208	5.7%	0.0%
Serbia	29	83	81	71	76	77	1.8%	5.9%
Slovakia	67	78	84	79	84	89	5.6%	1.7%
Slovenia	50	54	55	49	52	52	-0.2%	0.3%
Spain	1,433	1,607	1,441	1,247	1,287	1,296	0.7%	-0.6%
Sweden	362	360	336	304	322	323	0.5%	-0.7%
Switzerland	270	267	261	227	217	224	3.1%	-1.1%
Turkey	667	659	675	885	939	979	4.3%	2.3%
Ukraine	278	307	293	220	224	229	2.3%	-1.1%
United Kingdom	1,765	1,819	1,626	1,547	1,586	1,579	-0.4%	-0.7%

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Russia and Central Asia	3,243	3,303	3,528	4,154	4,253	4,293	0.9%	1.7%
Russia	2,678	2,732	2,947	3,450	3,533	3,557	0.7%	1.7%
Armenia	б	9	9	7	8	8	2.7%	1.1%
Azerbaijan	106	104	74	96	95	96	1.3%	-0.6%
Georgia	18	17	22	26	27	28	2.8%	2.6%
Kazakhstan	206	198	233	308	310	312	0.8%	2.5%
Kyrgyzstan	15	14	27	36	37	38	2.0%	5.4%
Tajikistan	3	6	11	23	24	25	4.6%	13.3%
Turkmenistan	104	120	126	151	160	166	4.1%	2.8%
Uzbekistan	106	103	80	57	60	63	4.7%	-3.0%

Countries (*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Middle East	5,011	6,206	7,558	8,572	8,474	8,477	0.0%	3.1%
Bahrain	34	64	62	64	65	66	1.4%	3.9%
Iran	1,419	1,723	1,861	1 <i>,</i> 836	1,817	1,831	0.7%	1.5%
Iraq	471	575	655	815	827	856	3.5%	3.6%
Israel	252	233	251	201	200	213	6.4%	-1.0%
Jordan	101	112	102	134	138	143	3.6%	2.1%
Kuwait	216	327	450	434	430	426	-1.0%	4.1%
Lebanon	93	97	120	151	154	158	2.4%	3.1%
Oman	64	72	127	187	192	195	1.5%	6.8%
Qatar	48	89	182	252	265	241	-8.9%	9.9%
Saudi Arabia	1,571	1,941	2,674	3,415	3,264	3,221	-1.3%	4.3%
Syria	228	324	299	136	131	129	-1.7%	-3.3%
United Arab Emirates	416	511	629	837	886	897	1.2%	4.6%
Yemen	98	139	146	110	105	102	-2.9%	0.2%

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Africa	2,466	2,928	3,609	4,257	4,289	4,324	0.8%	3.4%
Algeria	240	271	351	480	455	448	-1.5%	3.7%
Angola	37	42	103	145	150	153	2.2%	8.7%
Benin	10	19	35	36	37	39	5.2%	8.1%
Cameroon	21	22	34	43	44	46	3.2%	4.6%
Congo	4	б	12	17	17	18	2.9%	8.8%
Côte d'Ivoire	27	24	24	45	49	51	4.1%	3.9%
Dem. Rep. Congo	8	13	16	21	21	22	4.4%	6.1%
Egypt	539	638	766	858	888	854	-3.9%	2.7%
Ethiopia	23	33	45	70	74	76	3.3%	7.3%
Gabon	14	15	19	22	22	23	4.8%	3.2%
Ghana	39	49	72	87	91	95	4.3%	5.4%
Kenya	61	62	84	104	109	113	3.4%	3.7%
Libya	244	264	304	246	257	262	1.7%	0.4%
Morocco	147	193	257	271	279	288	3.4%	4.1%
Mozambique	10	11	16	24	24	25	4.5%	5.6%
Nigeria	224	300	331	441	421	448	6.5%	4.2%
Senegal	31	36	38	45	48	50	3.9%	2.7%
South Africa	431	496	585	642	623	615	-1.3%	2.1%
Sudan	43	77	112	123	126	130	2.8%	6.7%
Tanzania	18	30	35	68	72	74	3.5%	8.8%
Tunisia	84	91	88	102	103	105	1.6%	1.3%
Zambia	11	14	13	22	23	24	3.7%	4.9%
Zimbabwe	23	14	13	27	27	26	-2.7%	0.8%
Others Africa	178	207	256	318	328	340	3.6%	3.9%

(*) Data source: Monthly Oil Data Services OECD/International Energy Agency, 2018.

Countries ^(*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Asia - Pacific	20,885	24,178	27,480	31,818	32,667	33,729	3.3%	2.9%
Australia	872	962	1,035	1,106	1,100	1,176	7.0%	1.8%
Bangladesh	66	80	80	111	119	124	4.2%	3.8%
Brunei	13	14	16	17	17	17	1.8%	1.8%
China	4,651	6,772	9,031	11,562	11,809	12,445	5.4%	6.0%
Hong Kong	250	290	416	371	378	430	13.7%	3.2%
India	2,336	2,632	3,297	4,241	4,560	4,679	2.6%	4.2%
Indonesia	1,152	1,342	1,518	1,549	1,551	1,601	3.2%	2.0%
Japan	5,357	5,164	4,328	4,120	4,026	3,942	-2.1%	-1.8%
Malaysia	445	509	586	688	702	731	4.2%	3.0%
Myanmar	37	42	24	118	124	129	3.8%	7.6%
Nepal	15	16	22	26	27	28	3.1%	3.6%
New Zealand	134	153	153	161	168	176	5.0%	1.6%
North Korea	20	18	17	19	17	17	0.1%	-0.8%
Pakistan	374	336	403	507	546	559	2.3%	2.4%
Philippines	350	312	314	401	423	451	6.7%	1.5%
Singapore	729	859	1,164	1,258	1,300	1,329	2.2%	3.6%
South Korea	2,135	2,191	2,269	2,473	2,630	2,654	0.9%	1.3%
Sri Lanka	76	96	88	110	115	119	4.0%	2.7%
Taiwan	868	991	1,025	1,002	1,006	1,017	1.1%	0.9%
Thailand	748	1,008	1,128	1,359	1,391	1,416	1.8%	3.8%
Vietnam	165	263	395	410	432	453	4.8%	6.1%
Others Asia - Pacific	93	126	173	207	228	236	3.4%	5.6%

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Americas	29,060	30,904	30,422	31,264	31,303	31,442	0.4%	0.5%
Argentina	549	570	690	771	762	760	-0.3%	1.9%
Bolivia	40	47	63	88	91	93	2.0%	5.1%
Brazil	2,135	2,173	2,774	3,177	3,074	3,088	0.4%	2.2%
Canada	2,008	2,338	2,382	2,372	2,379	2,414	1.5%	1.1%
Chile	240	272	322	332	337	344	2.0%	2.1%
Colombia	270	263	267	314	366	367	0.3%	1.8%
Costa Rica	37	43	49	52	54	55	2.0%	2.4%
Cuba	196	178	214	195	198	200	1.1%	0.1%
Dominican Republic	123	119	123	125	129	131	2.1%	0.4%
Ecuador	147	193	248	277	274	269	-2.0%	3.6%
El Salvador	37	45	44	50	50	51	0.9%	1.8%
Guatemala	61	72	71	89	91	93	2.3%	2.5%
Haiti	10	14	14	22	22	23	1.4%	4.9%
Honduras	28	43	46	61	61	62	0.5%	4.7%
Jamaica	66	70	50	53	54	53	-0.6%	-1.2%
Mexico	2,062	2,069	2,094	2,006	2,027	1,925	-5.0%	-0.4%
Netherlands Antilles	74	79	73	61	63	64	2.0%	-0.8%
Nicaragua	24	27	29	36	37	38	1.9%	2.7%
Panama	84	87	125	142	146	151	3.4%	3.5%
Paraguay	23	25	35	45	46	47	2.3%	4.4%
Peru	163	160	202	236	252	256	1.2%	2.7%
Trinidad and Tobago	29	47	47	50	50	50	0.5%	3.2%
United States	19,999	21,168	19,476	19 <u>,</u> 840	19,999	20,188	0.9%	0.1%
Uruguay	43	43	52	53	53	54	1.0%	1.4%
Venezuela	497	647	807	672	540	519	-3.8%	0.3%
Others Americas	113	112	126	145	146	148	1.4%	1.6%

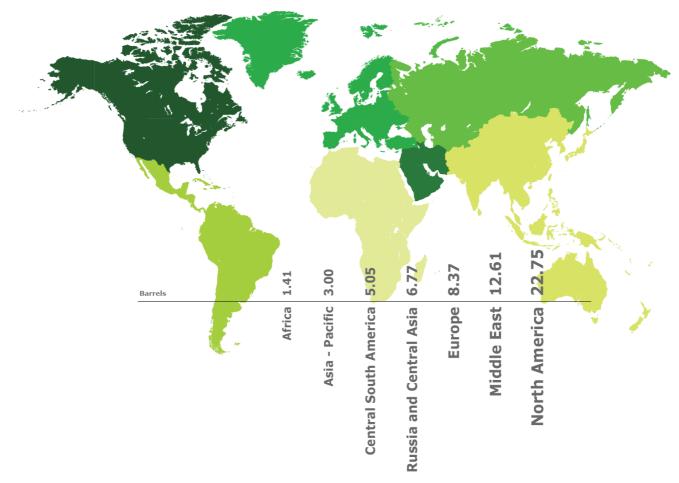
(*) Data source: Monthly Oil Data Services OECD/International Energy Agency, 2018.

Areas and Aggregates^(*)

(barrels)

	2000	2005	2010	2015	2016	2017
Europe	9.37	9.59	8.78	8.10	8.20	8.37
Russia and Central Asia	5.43	5.52	5.79	6.62	6.74	6.77
Middle East	10.90	12.07	12.91	13.21	12.83	12.61
Africa	1.22	1.28	1.40	1.46	1.44	1.41
Asia - Pacific	2.22	2.42	2.62	2.88	2.94	3.00
Americas	12.74	12.77	11.88	11.61	11.52	11.46
- North America	25.63	26.10	23.19	22.69	22.70	22.75
- Central South America	4.96	4.87	5.29	5.28	5.15	5.05
World	4.58	4.72	4.64	4.70	4.70	4.73
European Union	11.05	11.25	10.20	9.33	9.44	9.63
MENA	7.31	8.13	8.88	9.09	8.87	8.70
OECD	15.31	15.38	13.85	13.27	13.32	13.38
NON OECD	2.10	2.34	2.65	2.91	2.91	2.94
OPEC	6.40	7.18	7.99	8.09	7.71	7.53
NON OPEC	4.48	4.57	4.43	4.47	4.50	4.54

Per Capita Consumption (2017)



(*) Data source: Eni's calculations on Monthly Oil Data Services OECD/International Energy Agency, 2018 and IHS Global Insight data.

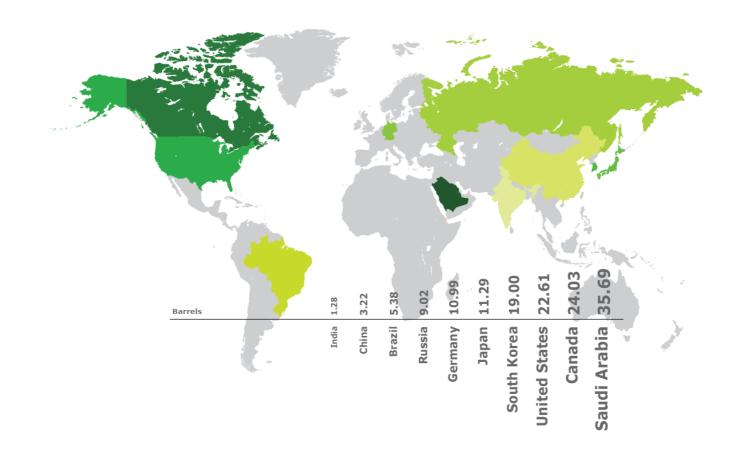
Per Capita Consumption

The World Top 10 Consumers Ranked by Per Capita Consumption^(*)

(barrels)	
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	2000	2005	2010	2015	2016	2017
Saudi Arabia	27.62	29.64	35.59	39.50	36.91	35.69
Canada	23.91	26.50	25.60	24.18	23.98	24.03
United States	25.81	26.06	22.92	22.53	22.55	22.61
South Korea	16.45	16.42	16.71	17.84	18.90	19.00
Japan	15.33	14.69	12.29	11.75	11.50	11.29
Germany	12.40	11.78	11.22	10.58	10.66	10.99
Russia	6.68	6.94	7.52	8.75	8.96	9.02
Brazil	4.45	4.24	5.15	5.63	5.40	5.38
China	1.32	1.87	2.42	3.02	3.07	3.22
India	0.81	0.84	0.98	1.18	1.26	1.28

The World Top 10 (2017)



(*) Data source: Eni's calculations on Monthly Oil Data Services OECD/International Energy Agency, 2018 and IHS Global Insight data.

Countries ^(*) (barrels)

	2000	2005	2010	2015	2016	2017
Europe	9.37	9.59	8.78	8.10	8.20	8.37
Albania	2.49	3.48	3.20	3.33	3.70	3.71
Austria	11.31	13.22	12.05	11.04	11.21	11.18
Belarus	4.38	5.60	5.82	5.33	5.27	5.28
Belgium	21.65	23.03	21.99	21.00	21.29	20.82
Bosnia Herzegovina	2.21	2.25	3.32	3.21	3.29	3.39
Bulgaria	3.91	4.72	4.16	4.83	4.90	4.98
Croatia	6.78	7.83	6.57	5.96	6.27	6.39
Cyprus	19.30	20.09	18.72	15.02	15.30	15.32
Czech Republic	6.03	7.58	7.00	6.75	6.21	7.43
Denmark	14.35	12.35	11.00	9.91	10.11	10.09
Estonia	5.48	7.00	7.26	7.90	8.10	8.07
Finland	14.99	15.32	14.57	13.22	13.31	12.96
France	12.25	11.86	10.55	9.58	9.35	9.59
Germany	12.40	11.78	11.22	10.58	10.66	10.99
Greece	13.07	13.69	11.80	9.61	9.78	9.91
Hungary	5.11	5.60	5.49	5.81	5.88	6.41
lceland	20.82	21.19	16.74	19.11	21.74	22.80
Ireland	16.31	17.04	12.96	11.32	11.72	11.79
Italy	11.81	11.05	9.44	7.81	7.69	7.89
Kosovo	1.50	2.06	2.35	2.82	2.65	2.66
Latvia	4.29	5.82	6.45	6.72	6.98	7.15
Lithuania	6.12	6.46	6.51	7.10	7.33	7.57
Luxembourg	40.17	51.69	43.17	36.20	35.55	36.20
Macedonia	3.35	3.17	3.20	3.60	3.72	3.81
Malta	26.31	28.68	40.81	36.66	38.32	38.83
Moldova	1.33	1.46	1.71	1.82	1.86	1.90
Montenegro	1.19	3.49	3.84	3.65	3.68	3.78
Netherlands	21.29	24.21	22.46	20.72	20.91	20.66
Norway	16.95	17.46	17.09	16.17	15.81	15.71
Poland	3.89	4.48	5.41	5.08	5.52	6.10
Portugal	11.74	11.64	9.38	8.33	8.22	8.42
Romania	3.41	3.81	3.15	3.48	3.63	3.86
Serbia	1.43	4.09	4.04	3.64	3.93	4.01
Slovakia	4.53	5.31	5.64	5.30	5.65	5.96
Slovenia	9.18	9.82	9.90	8.68	9.19	9.16
Spain	12.79	13.32	11.24	9.81	10.14	10.21
Sweden	14.88	14.52	13.05	11.37	11.93	11.90
Switzerland	13.75	13.13	12.15	9.95	9.44	9.65
Turkey	3.85	3.54	3.41	4.13	4.31	4.43
Ukraine	2.09	2.40	2.35	1.79	1.83	1.88
United Kingdom	10.93	11.01	9.37	8.63	8.80	8.71
	2000	2005	2010	2015	2016	2017
Russia and Central Asia	5.43	5.52	5.79	6.62	6.74	6.77
Russia	6.68	6.94	7.52	8.75	8.96	9.02
Armenia	0.76	1.10	1.15	0.91	0.94	0.96
Azerbaijan	4.78	4.44	2.99	3.66	3.57	3.58
Georgia	1.40	1.41	1.93	2.44	2.54	2.63
Kazakhstan	5.00	4.66	5.18	6.34	6.28	6.26
Kyrgyzstan	1.14	1.00	1.79	2.25	2.26	2.28
Tajikistan	0.18	0.31	0.52	0.96	1.00	1.02
Turkmenistan	8.43	9.21	9.03	9.89	10.28	10.52
Uzbekistan	1.55	1.41	1.02	0.67	0.70	0.72

World Oil Review 2018

Countries (*)

(barrels)

	2000	2005	2010	2015	2016	2017
Middle East	10.90	12.07	12.91	13.21	12.83	12.61
Bahrain	18.86	26.26	18.33	17.04	16.62	16.09
Iran	7.83	8.93	9.11	8.45	8.26	8.23
Iraq	7.30	7.78	7.77	8.24	8.12	8.16
lsrael	15.29	12.90	12.35	9.08	8.91	9.33
Jordan	7.21	7.13	5.16	5.32	5.32	5.38
Kuwait	38.41	52.48	54.73	40.29	38.74	37.59
Lebanon	10.55	8.85	10.08	9.43	9.37	9.47
Oman	10.22	10.47	15.21	16.28	15.81	15.32
Qatar	29.78	37.46	37.33	37.11	37.60	33.37
Saudi Arabia	27.62	29.64	35.59	39.50	36.91	35.69
Syria	5.07	6.46	5.19	2.64	2.59	2.57
United Arab Emirates	48.09	40.69	27.76	33.35	34.88	34.82
Yemen	2.01	2.46	2.26	1.49	1.40	1.32

	2000	2005	2010	2015	2016	2017
	1.00	1.00	1 (0	7.46	2.44	2 (2
Africa	1.22	1.28	1.40	1.46	1.44	1.41
Algeria	2.81	2.97	3.54	4.40	4.09	3.96
Angola	0.82	0.78	1.61	1.91	1.90	1.88
Benin	0.56	0.87	1.38	1.24	1.25	1.28
Cameroon	0.51	0.47	0.63	0.68	0.69	0.69
Congo	0.47	0.64	1.03	1.21	1.22	1.22
Côte d'Ivoire	0.59	0.48	0.43	0.71	0.76	0.77
Dem. Rep. Congo	0.06	0.08	0.09	0.10	0.10	0.10
Egypt	2.81	3.03	3.32	3.34	3.39	3.19
Ethiopia	0.13	0.16	0.19	0.26	0.27	0.27
Gabon	4.09	3.96	4.55	4.58	4.56	4.67
Ghana	0.75	0.84	1.07	1.16	1.18	1.20
Kenya	0.71	0.62	0.74	0.80	0.82	0.83
Libya	16.61	16.63	17.99	14.43	14.92	14.99
Morocco	1.86	2.31	2.89	2.84	2.89	2.94
Mozambique	0.20	0.19	0.24	0.32	0.30	0.30
Nigeria	0.67	0.79	0.76	0.89	0.83	0.86
Senegal	1.16	1.18	1.07	1.10	1.13	1.14
South Africa	3.44	3.71	4.14	4.23	4.06	3.96
Sudan	0.46	0.73	0.94	1.21	1.21	1.22
Tanzania	0.19	0.28	0.27	0.46	0.47	0.47
Tunisia	3.18	3.30	3.02	3.30	3.30	3.32
Zambia	0.37	0.43	0.34	0.50	0.51	0.51
Zimbabwe	0.69	0.40	0.33	0.62	0.61	0.58

(*) Data source: Eni's calculations on Monthly Oil Data Services OECD/International Energy Agency, 2018 and IHS Global Insight data.

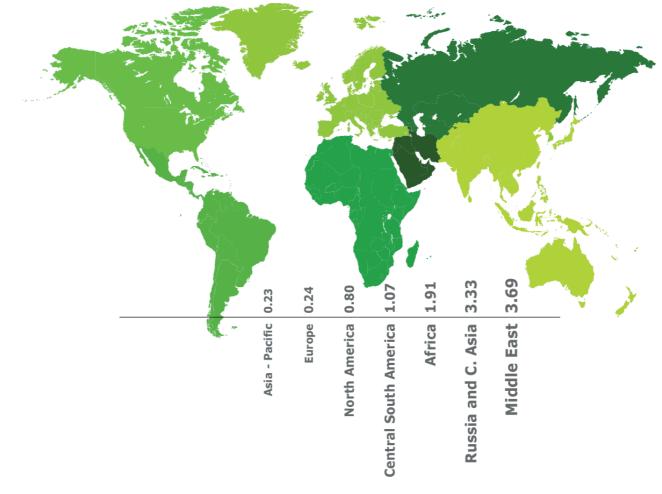
Countries ^(*) (barrels)

	2000	2005	2010	2015	2016	2017
Asia - Pacific	2.22	2.42	2.62	2.88	2.94	3.00
Australia	16.69	17.36	17.07	16.96	16.64	17.56
Bangladesh	0.18	0.20	0.19	0.25	0.27	0.27
Brunei	13.97	13.62	15.43	15.05	14.52	14.59
China	1.32	1.87	2.42	3.02	3.07	3.22
Hong Kong	13.69	15.51	21.61	18.70	18.89	21.29
India	0.81	0.84	0.98	1.18	1.26	1.28
Indonesia	1.99	2.16	2.28	2.19	2.17	2.21
Japan	15.33	14.69	12.29	11.75	11.50	11.29
Malaysia	7.01	7.24	7.61	8.18	8.21	8.44
Myanmar	0.29	0.32	0.17	0.82	0.86	0.88
Nepal	0.23	0.23	0.30	0.34	0.34	0.34
New Zealand	12.67	13.48	12.76	12.72	13.13	13.66
North Korea	0.32	0.28	0.25	0.28	0.25	0.25
Pakistan	0.98	0.80	0.86	0.98	1.03	1.03
Philippines	1.64	1.32	1.22	1.44	1.49	1.57
Singapore	67.99	69.79	83.70	82.94	84.38	84.95
South Korea	16.45	16.42	16.71	17.84	18.90	19.00
Sri Lanka	1.47	1.79	1.58	1.94	2.01	2.09
Taiwan	14.51	16.01	16.20	15.58	15.58	15.71
Thailand	4.33	5.62	6.12	7.22	7.37	7.49
Vietnam	0.75	1.14	1.63	1.60	1.67	1.73
	2000	2005	2010	2015	2016	2017
Americas	12.74	12.77	11.88	11.61	11.52	11.46
Argentina	5.41	5.31	6.11	6.48	6.34	6.26
Bolivia	1.76	1.87	2.32	3.01	3.06	3.08
Brazil	4.45	4.24	5.15	5.63	5.40	5.38
Canada	23.91	26.50	25.60	24.18	23.98	24.03
Chile	5.74	6.16	6.92	6.82	6.88	6.96
Colombia	2.44	2.21	2.12	2.38	2.75	2.73
Costa Rica	3.42	3.73	3.90	3.93	4.03	4.07
Cuba	6.42	5.75	6.88	6.21	6.31	6.37
Dominican Republic	5.26	4.71	4.52	4.32	4.41	4.46
Ecuador	4.26	5.14	6.06	6.26	6.11	5.90
El Salvador	2.32	2.71	2.58	2.87	2.90	2.91
Guatemala	1.91	2.01	1.76	1.99	2.01	2.01
Haiti	0.43	0.56	0.52	0.76	0.76	0.76
Honduras	1.58	2.12	2.04	2.47	2.46	2.43
Jamaica	9.01	9.33	6.50	6.72	6.78	6.72
Mexico	7.40	6.96	6.52	5.82	5.80	5.44
Netherlands Antilles	165.53	178.84	146.88	113.69	116.01	117.24
Nicaragua	1.73	1.82	1.82	2.14	2.20	2.22
Panama	10.16	9.50	12.48	13.08	13.18	13.41
	1.57	1.55	2.08	2.45	2.51	2.53
Paraguay				2.74		2.90
Paraguay Peru	2.30	2.12	2.51	2.74	2.90	2.90
Peru	2.30 8.42	2.12 13.34	2.51 12.92		2.90 13.27	
Peru Trinidad and Tobago	8.42	13.34	12.92	13.48	13.27	13.29
Peru Trinidad and Tobago United States	8.42 25.81	13.34 26.06	12.92 22.92	13.48 22.53	13.27 22.55	13.29 22.61
Peru Trinidad and Tobago	8.42	13.34	12.92	13.48	13.27	13.29

Areas and Aggregates (*)

	2000	2005	2010	2015	2016	2017
Europe	0.43	0.35	0.28	0.25	0.25	0.24
Russia and Central Asia	2.42	3.54	3.80	3.36	3.33	3.33
Middle East	4.69	4.12	3.36	3.48	3.74	3.69
Africa	3.17	3.38	2.84	1.97	1.83	1.91
Asia - Pacific	0.38	0.33	0.30	0.26	0.24	0.23
Americas	0.72	0.68	0.70	0.89	0.86	0.87
- North America	0.49	0.43	0.51	0.78	0.76	0.80
- Central South America	1.46	1.47	1.20	1.15	7.77	1.07
World	0.97	0.97	0.94	0.97	0.96	0.95
European Union	0.24	0.18	0.15	0.12	0.12	0.12
MENA	4.34	3.91	3.17	3.10	3.29	3.29
OECD	0.45	0.40	0.40	0.51	0.50	0.51
NON OECD	1.86	1.81	1.55	1.40	1.40	1.36
OPEC	5.42	4.91	3.88	3.73	3.94	3.91
NON OPEC	0.62	0.60	0.60	0.63	0.61	0.61

Production/Consumption Ratio (2017)



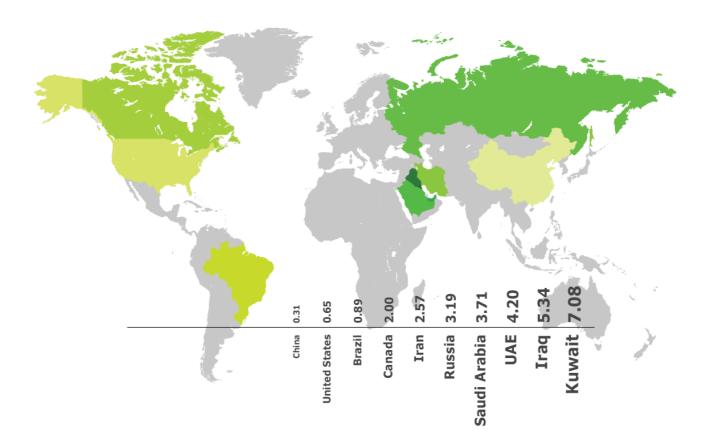
(*) Data source: Eni's calculations on Monthly Oil Data Services OECD/International Energy Agency, 2018 data.

Production/Consumption Ratio

The World Top 10 Producers Ranked by Production/Consumption Ratio^(*)

	2000	2005	2010	2015	2016	2017
Kuwait	10.01	7.78	5.56	7.13	7.42	7.08
Iraq	5.48	3.19	3.71	5.01	5.45	5.34
United Arab Emirates	6.31	5.87	4.50	4.52	4.39	4.20
Saudi Arabia	5.95	5.63	3.73	3.53	3.81	3.71
Russia	2.44	3.53	3.53	3.21	3.21	3.19
Iran	2.65	2.45	2.26	1.95	2.41	2.57
Canada	1.36	1.30	1.40	1.85	1.88	2.00
Brazil	0.59	0.78	0.77	0.80	0.85	0.89
United States	0.40	0.33	0.40	0.65	0.63	0.65
China	0.70	0.53	0.45	0.37	0.34	0.31

The World Top 10 (2017)



(*) Data source: Eni's calculations on Monthly Oil Data Services OECD/International Energy Agency, 2018 data.

Countries^(*)

	2000	2005	2010	2015	2016	2017
Europe	0.43	0.35	0.28	0.25	0.25	0.24
Albania	0.27	0.28	0.49	0.95	0.78	0.73
Austria	0.08	0.06	0.09	0.08	0.07	0.07
Belarus	0.31	0.24	0.23	0.24	0.24	0.23
Bulgaria	0.01	0.01	0.01	0.01	0.01	0.01
Croatia	0.34	0.23	0.23	0.20	0.21	0.21
Czech Republic	0.04	0.05	0.03	0.02	0.02	0.02
Denmark	1.73	2.12	1.52	1.01	0.89	0.86
Estonia	0.22	0.18	0.38	0.56	0.49	0.64
France	0.02	0.02	0.02	0.01	0.01	0.01
Germany	0.03	0.04	0.03	0.03	0.03	0.03
Greece	0.01	0.00	0.01	0.00	0.01	0.01
Hungary	0.27	0.24	0.17	0.14	0.14	0.14
Italy	0.04	0.07	0.07	0.09	0.06	0.06
Netherlands	0.05	0.04	0.03	0.04	0.03	0.03
Norway	15.94	13.37	9.34	8.45	8.76	8.62
Poland	0.04	0.06	0.03	0.06	0.05	0.05
Portugal	0.00	0.00	0.00	0.00	0.01	0.01
Romania	0.64	0.51	0.51	0.43	0.39	0.36
Serbia	0.68	0.16	0.22	0.29	0.26	0.25
Slovakia	0.02	0.09	0.06	0.05	0.03	0.04
Spain	0.00	0.00	0.00	0.01	0.01	0.01
Turkey	0.08	0.07	0.07	0.05	0.05	0.05
Ukraine	0.29	0.31	0.27	0.25	0.22	0.21
United Kingdom	1.53	1.01	0.84	0.63	0.65	0.64
	2000	2005	2010	2015	2016	2017
Russia and Central Asia	2.42	3.54	3.80	3.36	3.33	3.33
Russia	2.44	3.53	3.53	3.21	3.21	3.19
Azerbaijan	2.65	4.32	14.07	8.81	8.72	8.13
Georgia	0.12	0.08	0.04	0.02	0.02	0.01
		0.00				0.01
Kazakhstan	3.48		7.28		5.38	
Kazakhstan Kurguzstan	3.48 0.10	6.52	7.28 0.03	5.50	5.38 0.03	5.90
Kyrgyzstan	0.10	6.52 0.16	0.03	5.50 0.03	0.03	5.90 0.03
Kyrgyzstan Tajikistan	0.10 0.13	6.52 0.16 0.06	0.03 0.02	5.50 0.03 0.00	0.03 0.00	5.90 0.03 0.00
Kyrgyzstan Tajikistan Turkmenistan	0.10	6.52 0.16	0.03	5.50 0.03	0.03	5.90 0.03 0.00 1.43
Kyrgyzstan Tajikistan	0.10 0.13 1.52	6.52 0.16 0.06 1.68	0.03 0.02 1.56	5.50 0.03 0.00 1.81	0.03 0.00 1.59	5.90 0.03 0.00
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan	0.10 0.13 1.52 1.65 2000	6.52 0.16 0.06 1.68 1.15 2005	0.03 0.02 1.56 1.11 2010	5.50 0.03 0.00 1.81 1.13 2015	0.03 0.00 1.59 1.04 2016	5.90 0.03 0.00 1.43 0.94 2017
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East	0.10 0.13 1.52 1.65 2000 4.69	6.52 0.16 0.06 1.68 1.15 2005 4.12	0.03 0.02 1.56 1.11 2010 3.36	5.50 0.03 0.00 1.81 1.13 2015 3.48	0.03 0.00 1.59 1.04 2016 3.74	5.90 0.03 0.00 1.43 0.94 2017 3.69
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain	0.10 0.13 1.52 1.65 2000 4.69 5.75	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10	0.03 0.02 1.56 1.11 2010 3.36 3.08	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32	0.03 0.00 1.59 1.04 2016 3.74 3.27	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq Kuwait	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48 10.01	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19 7.78	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71 5.56	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01 7.13	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45 7.42	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34 7.08
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq Kuwait Oman	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48 10.01 15.08	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19 7.78 10.79	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71 5.56 6.87	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01 7.13 5.28	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45 7.42 5.28	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34 7.08 5.03
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq Kuwait Oman Qatar	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48 10.01 15.08 17.80	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19 7.78 10.79 13.70	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71 5.56 6.87 9.17	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01 7.13 5.28 7.90	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45 7.42 5.28 7.56	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34 7.08 5.03 8.20
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq Kuwait Oman Qatar Saudi Arabia	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48 10.01 15.08 17.80 5.95	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19 7.78 10.79 13.70 5.63	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71 5.56 6.87 9.17 3.73	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01 7.13 5.28 7.90 3.53	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45 7.42 5.28 7.56 3.81	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34 7.08 5.03 8.20 3.71
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq Kuwait Oman Qatar Saudi Arabia Syria	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48 10.01 15.08 17.80 5.95 2.51	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19 7.78 10.79 13.70 5.63 1.38	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71 5.56 6.87 9.17 3.73 1.29	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01 7.13 5.28 7.90 3.53 0.20	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45 7.42 5.28 7.56 3.81 0.19	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34 7.08 5.03 8.20 3.71 0.19
Kyrgyzstan Tajikistan Turkmenistan Uzbekistan Middle East Bahrain Iran Iraq Kuwait Oman Qatar Saudi Arabia	0.10 0.13 1.52 1.65 2000 4.69 5.75 2.65 5.48 10.01 15.08 17.80 5.95	6.52 0.16 0.06 1.68 1.15 2005 4.12 3.10 2.45 3.19 7.78 10.79 13.70 5.63	0.03 0.02 1.56 1.11 2010 3.36 3.08 2.26 3.71 5.56 6.87 9.17 3.73	5.50 0.03 0.00 1.81 1.13 2015 3.48 3.32 1.95 5.01 7.13 5.28 7.90 3.53	0.03 0.00 1.59 1.04 2016 3.74 3.27 2.41 5.45 7.42 5.28 7.56 3.81	5.90 0.03 0.00 1.43 0.94 2017 3.69 3.32 2.57 5.34 7.08 5.03 8.20 3.71

Countries^(*)

	2000	2005	2010	2015	2016	2017
Africa	3.17	3.38	2.84	1.97	1.83	1.91
Algeria	5.99	7.14	4.91	3.31	3.53	3.42
Angola	20.11	29.63	17.63	12.58	11.89	11.35
Cameroon	5.33	3.99	1.86	2.23	2.03	1.64
Congo	63.44	38.14	25.41	15.00	14.67	16.63
Côte d'Ivoire	0.26	1.66	1.63	0.60	0.87	1.00
Dem. Rep. Congo	2.91	1.96	1.60	1.03	1.00	0.91
Egypt	1.32	1.02	0.91	0.81	0.75	0.75
Gabon	20.07	18.06	12.84	10.46	10.15	8.55
Ghana	0.18	0.12	0.10	1.21	1.01	1.76
Libya	6.04	6.52	5.47	1.77	1.66	3.33
Могоссо	0.00	0.00	0.00	0.00	0.00	0.00
Nigeria	9.66	8.48	7.67	5.12	4.58	4.47
South Africa	0.46	0.42	0.24	0.16	0.16	0.16
Sudan	4.12	3.97	4.15	2.05	1.57	1.36
Tunisia	0.92	0.80	0.94	0.54	0.51	0.44
	2000	2005	2010	2015	2016	2017
Asia - Pacific	0.38	0.33	0.30	0.26	0.24	0.23
Australia	0.92	0.57	0.53	0.34	0.32	0.27
Bangladesh	0.06	0.08	0.06	0.03	0.03	0.03
Brunei	15.29	15.09	10.29	7.36	7.18	6.44
China	0.70	0.53	0.45	0.37	0.34	0.31
India	0.33	0.29	0.27	0.20	0.19	0.18
Indonesia	1.26	0.81	0.65	0.53	0.57	0.53
Malaysia	1.60	1.56	1.22	1.02	1.01	0.95
Myanmar	0.00	0.01	0.25	0.20	0.19	0.17
New Zealand	0.33	0.24	0.39	0.30	0.24	0.21
Pakistan	0.15	0.19	0.16	0.21	0.19	0.17
Philippines	0.00	0.07	0.06	0.04	0.04	0.03
South Korea	0.01	0.00	0.01	0.01	0.01	0.01
Thailand	0.26	0.29	0.34	0.33	0.33	0.30
Vietnam	2.02	1.41	0.78	0.83	0.72	0.61
	2000	2005	2010	2015	2016	2017
Americas	0.72	0.68	0.70	0.89	0.86	0.87
Argentina	1.57	1.46	1.03	0.82	0.80	0.76
Bolivia	0.97	1.24	0.81	0.84	0.77	0.73
Brazil	0.59	0.78	0.77	0.80	0.85	0.89
Canada	1.36	1.30	1.40	1.85	1.88	2.00
Chile	0.04	0.03	0.04	0.02	0.02	0.02
Colombia	2.55	2.01	2.95	3.21	2.41	2.33
Cuba	0.26	0.31	0.26	0.28	0.26	0.24
Ecuador	2.74	2.76	1.89	1.95	2.00	1.98
Guatemala	0.34	0.26	0.17	0.11	0.10	0.09
Mexico	1.67	1.82	1.41	1.30	1.22	1.16
Peru	0.64	0.73	0.77	0.63	0.53	0.52
Trinidad and Tobago	4.72	3.60	3.16	2.16	1.95	1.98
United States	0.40	0.33	0.40	0.65	0.63	0.65
Venezuela	6.47	4.78	0.40 3.44	3.96	4.50	4.11
(*) Data source: Eni's calculations on Ma					т.50	т . і І

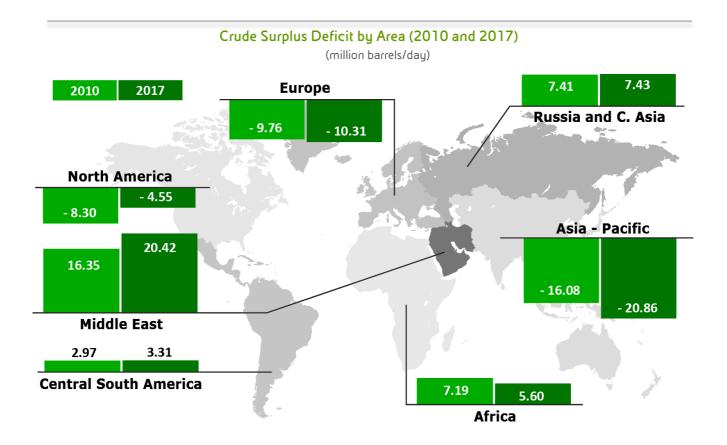
Regional Crude Balances Exports Imports Crude Future Price and Open Interests

World Oil Review 2018

Crude Surplus Deficit by Area(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ (2017-2016)	∆ (2017-2000)
Europe	-7,984	-10,188	-9,757	-10,128	-9,933	-10,314	-380	-2,329
Russia and Central Asia	3,546	6,628	7,411	7,082	7,332	7,434	102	3,888
Middle East	15,858	17,252	16,351	19,725	20,975	20,420	-555	4,562
Africa	4,591	6,632	7,186	5,663	5,229	5,596	368	1,006
Asia - Pacific	-10,830	-13,436	-16,082	-19,178	-20,252	-20,861	-610	-10,031
Americas	-6,330	-6,691	-5,323	-852	-1,425	-1,244	181	5,085
- North America	-9,137	-9,737	-8,297	-4,469	-4,829	-4,554	275	4,583
- Central South America	2,807	3,046	2,974	3,618	3,404	3,310	-94	503
World	-1,150	197	-214	2,313	1,926	1,031	-895	2,181

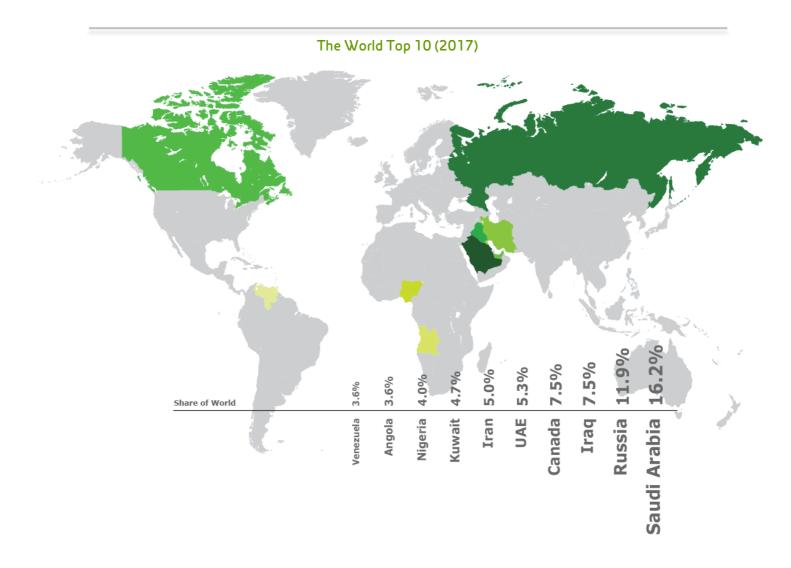


(*) Data source: Eni's elaborations on Monthly Oil Data Services ° OECD/International Energy Agency, 2018 and ICIS Consulting data.

The World Top 10 Exporters ^(*) Crude and non conventional oil

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Saudi Arabia	6,251	7,470	5,792	7,390	7,899	7,178	-9.1%	0.8%
Russia	2,916	5,100	4,912	4,937	5,190	5,257	1.3%	3.5%
Iraq	2,063	1,400	1,892	3,003	3,199	3,324	3.9%	2.8%
Canada	1,380	1,578	1,948	3,029	3,104	3,318	6.9%	5.3%
United Arab Emirates	1,940	2,184	2,225	2,593	2,447	2,363	-3.4%	1.2%
Iran	2,289	2,417	2,269	1,128	1,670	2,223	33.1%	-0.2%
Kuwait	1,218	1,660	1,380	1,964	2,128	2,096	-1.5%	3.2%
Nigeria	2,163	2,313	2,369	2,114	1,769	1,783	0.8%	-1.1%
Angola	753	1,202	1,720	1,727	1,672	1,587	-5.1%	4.5%
Venezuela	2,015	2,290	1,820	1,872	1,741	1,581	-9.2%	-1.4%
Rest of the World	15,555	15,858	14,783	12,546	12,778	13,568	6.2%	-0.8%
World	38,543	43 ,471	41,110	42,303	43,598	44,278	1.6%	0.8%



(*) Data source: Eni's estimates on Enerdata Global Energy & CO2 Data, Monthly Oil Data Services "OECD/International Energy Agency, 2018 and other official data sources.

World Oil Review 2018

Countries^(*)

Crude and non conventional oil (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Europe								
Albania	0	0	9	18	14	21	55.5%	
Austria	1	0	0	0	0	0		-100.0%
Belarus	7	27	0	32	32	32	0.2%	9.4%
Croatia	1	0	0	0	0	0		-100.0%
Czech Republic	2	1	0	1	1	0	-14.3%	-8.6%
Denmark	275	273	154	90	78	82	5.6%	-6.9%
Germany	64	14	14	7	2	0	-100.0%	-100.0%
Greece	0	18	17	2	3	3	4.5%	
Hungary	0	7	0	2	1	3	159.6%	
Ireland	0	0	2	0	0	6		
Italy	0	15	б	14	12	15	18.5%	
Lithuania	6	3	2	1	1	1	0.0%	-10.0%
Netherlands	4	21	10	6	7	8	25.7%	4.9%
Norway	2,875	2,316	1,586	1,223	1,363	1,348	-1.1%	-4.4%
Poland	3	5	4	5	4	4	-1.8%	3.2%
Romania	0	0	2	1	1	1	29.8%	
Slovakia	0	1	0	1	0	1	685.7%	9.4%
Sweden	0	0	0	0	0	16		
Ukraine	5	2	0	0	0	0		-100.0%
United Kingdom	1,719	978	733	589	616	686	11.4%	-5.3%

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Russia and Central Asia								
Azerbaijan	113	286	853	657	650	609	-6.3%	10.4%
Georgia	2	1	1	3	0	0	15.8%	-7.3%
Kazakhstan	588	1,093	1,386	1,272	1,265	1,390	9.9%	5.2%
Russia	2,916	5,100	4,912	4,937	5,190	5,257	1.3%	3.5%
Turkmenistan	32	50	26	69	73	73	0.0%	5.0%

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Middle East								
Iran	2,289	2,417	2,269	1,128	1,670	2,223	33.1%	-0.2%
Iraq	2,063	1,400	1,892	3,003	3,199	3,324	3.9%	2.8%
Kuwait	1,218	1,660	1,380	1,964	2,128	2,096	-1.5%	3.2%
Oman	895	718	745	844	882	806	-8.6%	-0.6%
Qatar	607	697	650	580	595	548	-7.8%	-0.6%
Saudi Arabia	6,251	7,470	5,792	7,390	7,899	7,178	-9.1%	0.8%
Syria	331	208	163	0	0	0		-100.0%
United Arab Emirates	1,940	2,184	2,225	2,593	2,447	2,363	-3.4%	1.2%
Yemen	368	296	183	9	0	0		-100.0%

^(*) Data source: Eni's estimates on Enerdata Global Energy &CO₂Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

Countries^(*)

Crude and non conventional oil (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Africa								
Algeria	449	974	714	523	546	521	-4.6%	0.9%
Angola	753	1,202	1,720	1,727	1,672	1,587	-5.1%	4.5%
Cameroon	113	82	56	96	93	78	-16.7%	-2.2%
Chad	0	174	122	73	73	121	65.1%	
Congo	249	228	291	221	203	239	17.9%	-0.2%
Côte d'Ivoire	7	40	38	27	27	27	0.0%	8.4%
Dem. Rep. Congo	24	25	22	21	20	18	-12.0%	-1.8%
Egypt	197	41	188	247	261	219	-15.8%	0.6%
Equatorial Guinea	114	329	253	271	262	231	-12.0%	4.2%
Gabon	264	253	243	214	213	191	-10.3%	-1.9%
Ghana	0	0	0	104	74	136	82.4%	
Libya	997	1,336	1,345	299	305	305	0.0%	-6.7%
Mauritania	0	0	8	5	6	4	-32.8%	
Mozambique	0	0	1	0	0	0		
Nigeria	2,163	2,313	2,369	2,114	1,769	1,783	0.8%	-1.1%
South Africa	4	0	0	0	0	0		-100.0%
Sudan	132	236	362	20	19	19	0.0%	-10.8%
Tunisia	61	59	77	38	37	32	-13.8%	-3.8%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Asia - Pacific								
Australia	380	226	311	219	198	178	-10.1%	-4.4%
Brunei	183	198	148	116	108	97	-10.2%	-3.6%
China	207	162	61	57	59	98	66.2%	-4.3%
Indonesia	610	433	323	315	343	375	9.1%	-2.8%
Malaysia	347	382	345	324	328	322	-2.1%	-0.4%
Mongolia	0	1	6	22	22	22	0.9%	32.7%
Myanmar	2	7	0	2	2	12	587.8%	11.4%
New Zealand	24	12	47	34	31	26	-13.7%	0.7%
Pakistan	9	0	0	13	9	0	-100.0%	-100.0%
Papua New Guinea	73	47	9	0	0	51		-2.1%
Philippines	0	15	19	16	15	0	-100.0%	
Singapore	0	3	9	15	15	0	-100.0%	
Thailand	9	66	29	1	31	32	5.6%	7.5%
Vietnam	308	361	161	190	137	123	-10.5%	-5.3%

^(*) Data source: Eni's estimates on Enerdata *Global Energy &CO₂Data, Monthly Oil Data Services* °OECD/International Energy Agency, 2018 and other official data sources.

Countries^(*)

Crude and non conventional oil (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Americas								
Argentina	278	149	56	37	45	27	-40.1%	-12.8%
Barbados	1	1	1	1	1	1	-6.0%	-1.8%
Bolivia	4	4	0	1	1	1	38.7%	-7.2%
Brazil	19	275	632	737	849	1,070	26.1%	26.9%
Canada	1,380	1,578	1,948	3,029	3,104	3,318	6.9%	5.3%
Colombia	385	229	470	726	578	553	-4.4%	2.2%
Ecuador	239	344	326	390	374	362	-3.0%	2.5%
Guatemala	19	16	10	9	7	7	-9.4%	-5.9%
Mexico	1,831	2,002	1,446	1,235	1,265	1,252	-1.0%	-2.2%
Peru	14	13	19	8	2	0	-100.0%	-100.0%
Suriname	2	0	0	0	0	18		12.7%
Trinidad and Tobago	52	72	45	31	28	27	-2.8%	-3.8%
United States	50	32	42	465	591	1,118	89.2%	20.1%
Venezuela	2,015	2,290	1,820	1,872	1,741	1,581	-9.2%	-1.4%

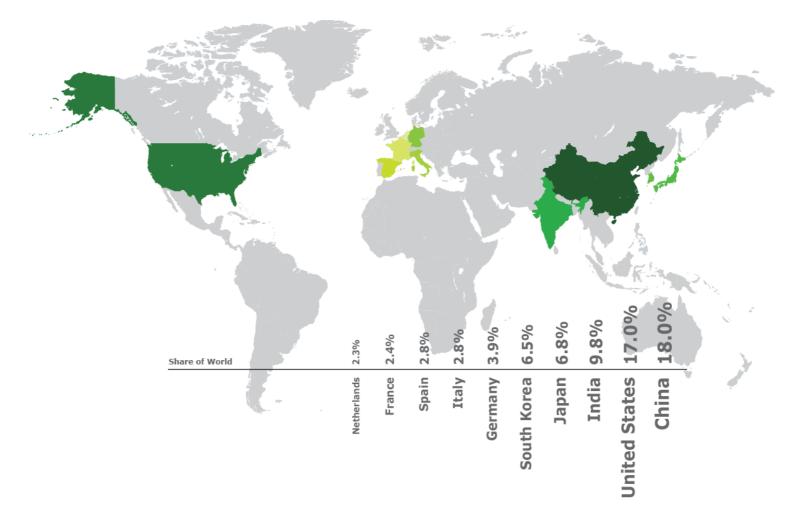
(*) Data source: Eni's estimates on Enerdata Global Energy &CO2Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

The World Top 10 Importers^(*) Crude and non conventional oil

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
China	1,409	2,543	4,767	6,728	7,642	8,413	10.1%	11.1%
United States	9,071	10,126	9,213	7,363	7,850	7,912	0.8%	-0.8%
India	1,510	2,026	3,335	4,135	4,361	4,550	4.3%	6.7%
Japan	4,205	4,093	3,436	3,203	3,137	3,158	0.6%	-1.7%
South Korea	2,437	2,309	2,355	2,755	2,905	3,012	3.7%	1.3%
Germany	2,074	2,246	1,865	1,825	1,825	1,815	-0.6%	-0.8%
Italy	1,673	1,790	1,570	1,251	1,218	1,327	9.0%	-1.4%
Spain	1,150	1,191	1,049	1,295	1,283	1,318	2.7%	0.8%
France	1,698	1,685	1,283	1,135	1,085	1,132	4.3%	-2.4%
Netherlands	1,093	1,046	1,023	1,046	1,083	1,081	-0.2%	-0.1%
Rest of the World	12,239	13,890	12,493	12,421	12,470	12,948	3.8%	0.3%
World	38,559	42,946	42,388	43,156	44,858	46,666	4.0%	1.1%

The World Top 10 (2017)



(*) Data source: Eni's estimates on Enerdata Global Energy & CO₂Data, Monthly Oil Data Services *OECD/International Energy Agency, 2018 and other official data sources.

Countries^(*)

Crude and non conventional oil (thousand barrels/day)

∆y/y CAGR 2010 2015 2016 2017 (2017-2000) (2017-2016) Europe 143 135 147 144 -1.6% 0.1% 157 162 Austria Belarus 240 386 295 458 363 362 -0.1% 2.4% Belgium 678 639 668 642 637 682 7.0% 0.0% 11 3 23 22 16.5% 4.4% Bosnia-Herzegovina 19 19 106 121 109 122 141 13.2% 1.7% Bulgaria 124 80 81 72 47 51 57 12.3% -1.9% Croatia Cyprus 23 0 0 0 0 0 -100.0% Czech Republic 114 155 155 143 107 156 46.7% 1.9% 82 54 54 83 96 25.3% 0.9% Denmark 77 Finland 217 191 215 203 221 237 6.9% 0.5% France 1,698 1,685 1,283 1,135 1,085 1,132 4.3% -2.4% 1,815 2,074 2,246 1,865 1,825 1,825 -0.6% -0.8% Germany Greece 387 374 403 442 469 473 0.9% 1.2% 116 129 115 124 120 119 -0.7% 0.2% Hungary Ireland 59 65 61 73 б4 64 0.5% 0.5% 1,673 1,570 1,218 1,790 1,251 1,327 9.0% -1.4% ltaly 95 179 180 170 186 197 5.5% 4.4% Lithuania Macedonia 16 20 17 0 0 0 -100.0% 1,083 Netherlands 1,093 1,046 1,023 1,046 1,081 -0.2% -0.1% 36 18 241.2% 4.1% 16 11 22 11 Norwau Poland 360 358 454 530 491 493 0.3% 1.9% Portugal 235 261 220 282 269 284 5.4% 1.1% Romania 98 179 120 136 153 159 3.8% 2.9% 6 62 38 37 45 45 2.0% 13.0% Serbia Slovakia 107 110 109 118 117 112 -4.1% 0.3% Slovenia 2 0 0 0 0 0 -100.0% Spain 1,150 1,191 1,049 1,295 1,283 1,318 2.7% 0.8% Sweden 419 402 397 402 394 397 0.9% -0.3% Switzerland 92 95 90 56 59 57 -2.8% -2.8% Turkey 433 468 339 501 499 515 3.2% 1.0% Ukraine 116 292 155 5 10 20 97.1% -9.9% 847 792 885 United Kingdom 845 1,044 953 11.7% 0.3%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Russia and Central Asia								
Georgia	0	0	0	3	1	0	-100.0%	
Kazakhstan	20	75	120	1	1	3	100.0%	-10.7%
Kyrgyzstan	0	0	0	4	5	5	0.0%	15.0%
Russia	119	49	0	58	16	16	0.0%	-11.2%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Middle East								
Bahrain	71	80	85	66	65	56	-13.5%	-1.4%
Iran	13	42	13	0	0	0		-100.0%
Israel	211	204	221	234	216	216	0.0%	0.1%
Jordan	74	90	68	68	58	64	11.1%	-0.8%
Syria	0	0	0	88	90	16	-82.0%	
Yemen	16	0	0	0	0	0		-100.0%

(*) Data source: Eni's estimates on Enerdata Global Energy &CO2Data, Monthly Oil Data Services ©OECD/International Energy Agency, 2018 and other official data sources.

Countries^(*)

Crude and non conventional oil (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Africa								
Algeria	б	6	7	6	5	4	-15.0%	-2.4%
Cameroon	31	30	34	36	38	0	-100.0%	-100.0%
Côte d'Ivoire	59	76	59	62	66	66	0.0%	0.7%
Egypt	0	50	73	64	136	142	4.8%	
Ghana	26	39	33	6	29	0	-100.0%	-100.0%
Kenya	49	35	31	13	10	10	2.2%	-8.9%
Madagascar	9	10	0	0	0	0		-100.0%
Morocco	143	144	109	56	0	0		-100.0%
Senegal	18	20	13	18	21	18	-14.2%	0.1%
Sierra Leone	4	3	3	4	4	4	-9.2%	0.1%
Somalia	2	0	0	0	0	0		-100.0%
South Africa	459	474	380	414	437	383	-12.2%	-1.1%
Sudan	0	0	0	9	22	22	0.0%	
Tunisia	24	23	4	19	19	0	-100.0%	-100.0%
Zambia	1	8	13	13	10	10	0.0%	18.2%

	2000	2005	2010	2015	2016	2017	∆y/y (2017-2016)	CAGR (2017-2000)
Asia - Pacific								
Australia	372	379	469	315	330	331	0.4%	-0.7%
Bangladesh	26	22	26	22	27	30	12.9%	0.8%
China	1,409	2,543	4,767	6,728	7,642	8,413	10.1%	11.1%
India	1,510	2,026	3,335	4,135	4,361	4,550	4.3%	6.7%
Indonesia	224	332	284	383	416	441	5.9%	4.1%
Japan	4,205	4,093	3,436	3,203	3,137	3,158	0.6%	-1.7%
Malaysia	148	164	159	171	188	193	2.7%	1.6%
Myanmar	13	0	0	0	0	0		-100.0%
New Zealand	90	90	98	102	107	105	-1.1%	1.0%
North Korea	8	10	11	11	11	10	-5.9%	1.7%
Pakistan	144	176	136	172	175	205	17.3%	2.1%
Papua New Guinea	0	18	20	13	27	0	-100.0%	
Philippines	314	215	184	213	215	204	-5.3%	-2.5%
Singapore	842	1,180	934	789	841	1,000	18.9%	1.0%
South Korea	2,437	2,309	2,355	2,755	2,905	3,012	3.7%	1.3%
Sri-Lanka	47	40	36	34	32	38	18.5%	-1.2%
Taiwan	743	1,045	876	841	859	852	-0.7%	0.8%
Thailand	676	828	849	891	870	1,003	15.3%	2.3%

^(*) Data source: Eni's estimates on Enerdata Global Energy &CO2Data, Monthly Oil Data Services °OECD/International Energy Agency, 2018 and other official data sources.

Countries^(*)

Crude and non conventional oil (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Americas								
Argentina	26	4	0	16	15	0	-100.0%	-100.0%
Brazil	399	343	339	298	155	172	11.0%	-4.8%
Canada	912	928	770	570	806	839	4.1%	-0.5%
Chile	193	204	158	169	169	175	4.0%	-0.6%
Colombia	4	7	0	0	0	0		-100.0%
Costa Rica	1	11	10	0	0	0		-100.0%
Cuba	29	39	107	99	58	62	7.5%	4.5%
Dominican Republic	41	42	27	16	23	28	19.2%	-2.2%
El Salvador	19	20	15	0	0	0		-100.0%
Guatemala	17	5	0	0	0	0		-100.0%
Jamaica	21	9	23	24	22	24	10.6%	0.7%
Nicaragua	16	15	15	15	12	16	30.4%	-0.2%
Netherland Antilles	222	232	89	185	190	190	-0.1%	-0.9%
Panama	44	0	0	0	0	0		-100.0%
Paraguay	2	1	0	0	0	0		-100.0%
Peru	62	98	97	87	107	109	1.5%	3.3%
Trinidad and Tobago	97	92	68	78	101	88	-12.9%	-0.6%
United States	9,071	10,126	9,213	7,363	7,850	7,912	0.8%	-0.8%
Uruguay	35	41	39	40	41	40	-2.1%	0.8%

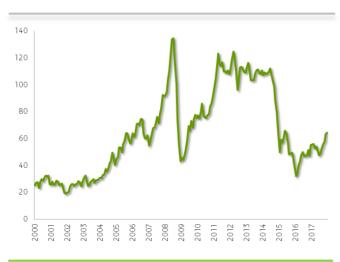
^(*) Data source: Eni's estimates on Enerdata *Global Energy &CO₂Data, Monthly Oil Data Services* °OECD/International Energy Agency, 2018 and other official data sources.

Crude Future Prices and Open Interests^(*)

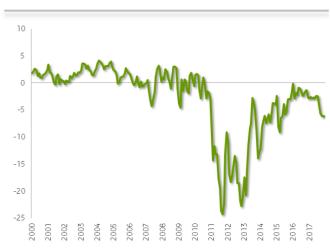
	2000	2005	2010	2015	2016	2017	∆ y/y (2017-2016)	CAGR (2017-2000)
Crude Future Prices (US\$/barrel)								
ICE Brent CME WTI	28.5 30.3	55.3 56.7	80.3 79.6	53.6 48.8	45.1 43.5	54.7 50.9	21.3% 17.0%	3.9% 3.1%
Total Open Interests								
(no. contracts - daily totals)								
ICE Brent	267,667	350,337	813,445	1,922,243	2,195,065	2,401,096	9.4%	13.8%
CME WTI	469,685	819,675	1,341,531	1,679,710	1,818,925	2,282,425	25.5%	9.7%

ICE Brent Price 1 Month(*)

(US\$/barrel)

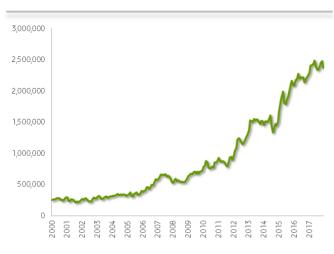


WTI vs Brent 1 Month Differential^(*) (US\$/barrel)



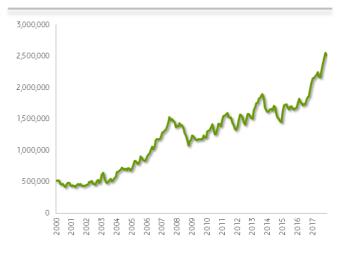
ICE Brent Total Open Interests^(*)

(no. contracts - daily totals)



CME WTI Total Open Interests^(*)

(no. contracts - daily totals)



(*) Data source: ICE London and CME New York.

World Oil Review 2018

World Europe Russia and Central Asia Middle East Africa Asia - Pacific Americas

World Oil Review 2018

Crude Production by Quality

(Gravity and Sulphur Content) (*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2005	2010	2015	2010	2017	2000	2017
World (A)	68,664	74,805	75,009	81,758	81,709	81,697		
Ultra Light	1,464	1,944	2,463	3,430	3,419	3,399	2.1%	4.2%
Light & Sweet	15,423	14,383	14,534	15,381	14,931	15,628	22.5%	19.1%
Light & Medium Sour	2,885	3,139	3,681	4,076	4,096	4,188	4.2%	5.1%
Light & Sour	2,401	2,288	2,218	2,521	2,535	2,659	3.5%	3.3%
Medium & Sweet	6,958	8,079	7,610	8,326	7,583	7,791	10.1%	9.5%
Medium & Medium Sour	2,431	2,744	2,938	3,228	3,327	3,309	3.5%	4.1%
Medium & Sour	27,925	31,249	30,410	32,546	34,005	32,897	40.7%	40.3%
Heavy & Sweet	1,315	1,613	2,304	2,220	2,209	2,030	1.9%	2.5%
Heavy & Medium Sour	1,517	1,902	2,297	2,042	1,706	1,778	2.2%	2.2%
Heavy & Sour	5,456	6,434	5,702	7,213	7,107	7,212	7.9%	8.8%
Unassigned production: (B)	890	1,030	853	777	791	806	1.3%	1.0%
% Unassigned production (B/A)	1.3	1.4	1.1	1.0	1.0	1.0		

Crude Production by Gravity^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share of total	
	2000	2005	2010	2015	2010	2017	2000	2017
World	68,664	74,805	75,009	81,758	81,709	81,697		
Light	22,173	21,754	22,895	25,407	24,982	25,874	32.3%	31.7%
Medium	37,313	42,072	40,958	44,100	44,915	43,997	54.3%	53.9%
Heavy	8,288	9,949	10,303	11,474	11,021	11,020	12.1%	13.5%
Unassigned production	890	1,030	853	777	791	806	1.3%	1.0%

Crude Production by Sulphur Content^(*)

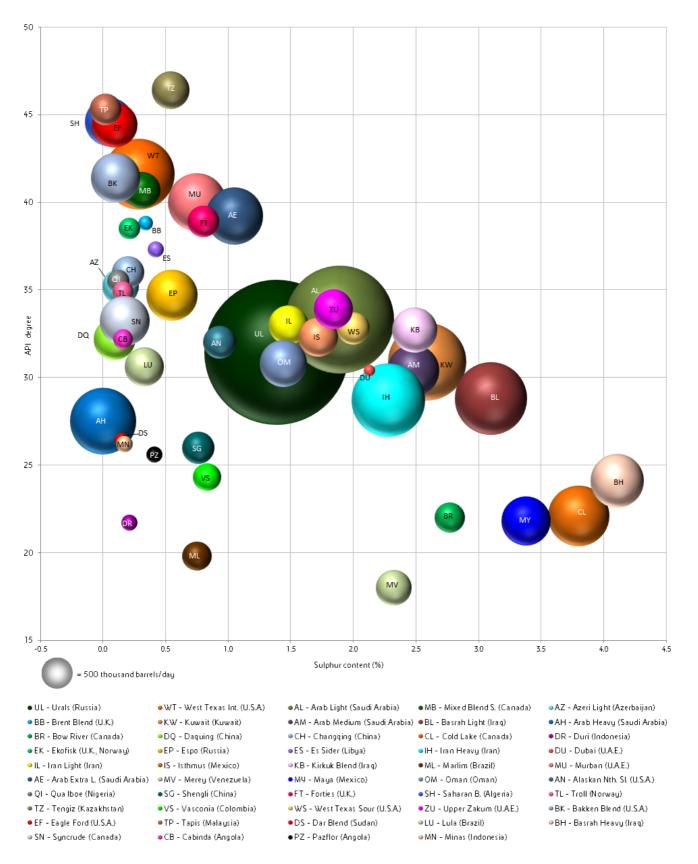
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share of total	
	2000	2005	2010	2015	2010	2017	2000	2017
World	68,664	74,805	75,009	81,758	81,709	81,697		
Sweet	25,159	26,019	26,910	29,356	28,142	28,847	36.6%	35.3%
Medium Sour	6,833	7,785	8,916	9,346	9,129	9,276	10.0%	11.4%
Sour	35,781	39,971	38,330	42,279	43,647	42,768	52.1%	52.4%
Unassigned production	890	1,030	853	777	791	806	1.3%	1.0%

(*) Data source: Eni's elaborations on Monthly Oil Data Services ° OECD/International Energy Agency, 2018 data.

Quality and Production Volume of Main 2017 Crudes (*)

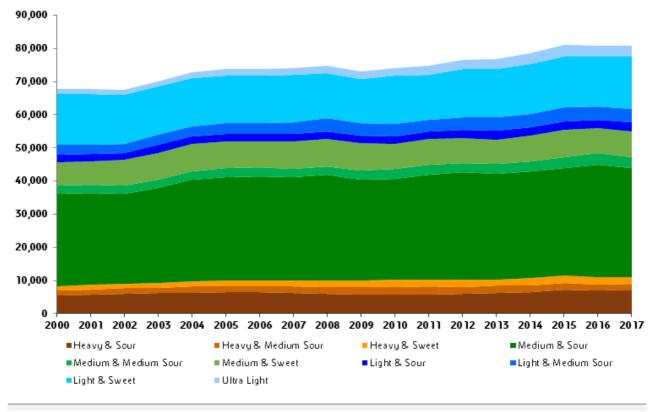
(thousand barrels/day)



(*) Data source: Eni.

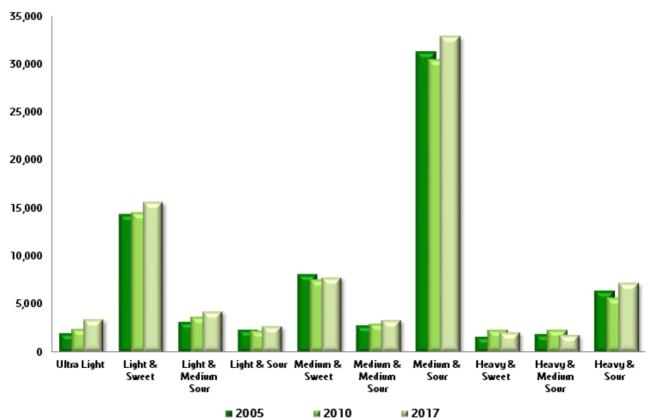
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



(*) Data source: Eni's elaborations on Monthly Oil Data Services ° OECD/International Energy Agency, 2018 data.

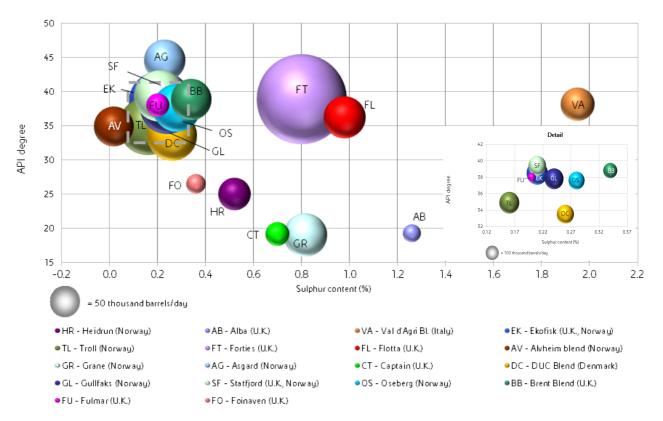
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share of total	
	2000	2005	2010	2015	2010	2017	2000	2017
Europe (A)	6,753	5,586	4,129	3,502	3,526	3,466		
Ultra Light	, 124	272	267	338	, 347	, 351	1.8%	9.8%
Light & Sweet	4,437	3,218	1,745	1,535	1,497	1,346	65.7%	42.5%
Light & Medium Sour	45	133	649	472	526	577	0.7%	14.9%
Light & Sour	20	88	68	77	51	62	0.3%	1.4%
Medium & Sweet	1,026	891	552	428	483	476	15.2%	13.7%
Medium & Medium Sour								
Medium & Sour	172	1	29	15	6	0	2.5%	0.2%
Heavy & Sweet	17	36	80	31	35	70	0.3%	1.0%
Heavy & Medium Sour	307	398	275	163	157	182	4.5%	4.5%
Heavy & Sour	99	79	58	40	39	32	1.5%	1.1%
Unassigned production (B)	506	470	405	404	385	371	7.5%	10.9%
% Unassigned production (B/A)	7.5	8.4	9.8	11.5	10.9	10.7		

Quality and Production Volume of Main Crudes 2017 (**)

(thousand barrels/day)

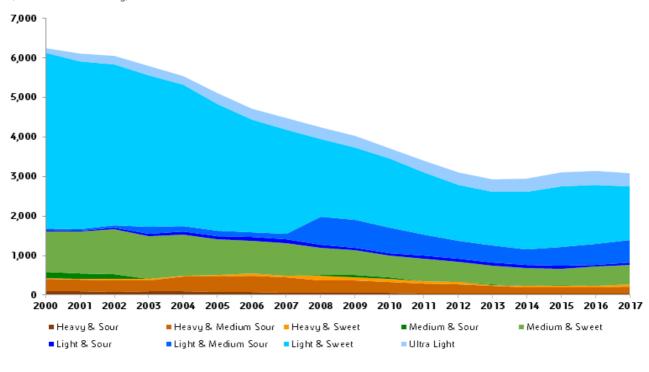


(*) Data source: Eni's elaborations on *Monthly Oil Data Services* • OECD/International Energy Agency, 2018 data.

(**) Data source: Eni.

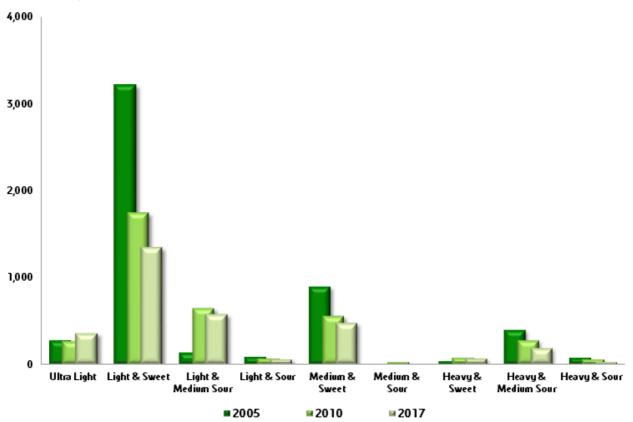
Europe





Crude Production by Quality^(*)

(selected years, thousand barrels/day)



(*) Data source: Eni's elaborations on Monthly Oil Data Services * OECD/International Energy Agency, 206= data.

Countries^(*) (thousand barrels/day)

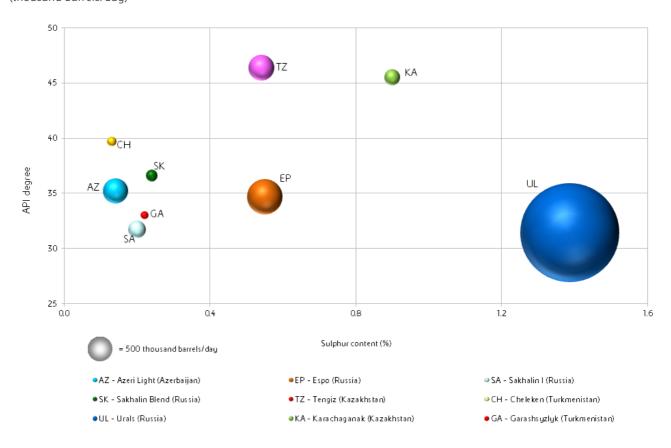
	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2005	2010	2015	2010	2017	2000	2017
Denmark	363	388	255	156	141	137		
Light & Sweet	131	121	24	8	9	7	36.1%	5.1%
Medium & Sweet	232	267	231	148	132	130	63.9%	94.9%
Italy	74	114	96	100	71	78		
Light & Sweet	31	4	6	1	0	0	41.3%	0.0%
Light & Sour	20	88	68	77	51	62	27.6%	79.9%
Medium & Sour	1.6	1.3					2.2%	
Heavy & Sour	21	21	21	23	20	16	29.0%	20.0%
Norway	3,331	2,962	2,138	1,948	1,995	1,969		
Ultra Light	124	272	267	338	, 347	351	3.7%	17.9%
Light & Sweet	2,465	1,913	1,316	1,207	1,183	1,136	74.0%	57.7%
Light & Medium Sour			31	13	14	11		0.6%
Medium & Sweet	560	459	273	249	312	317	16.8%	16.1%
Medium & Sour			29	15	6			
Heavy & Medium Sour	182	318	221	126	133	153	5.5%	7.8%
United Kingdom	2,480	1,652	1,235	894	934	912		
Light & Sweet	1,811	1,180	398	319	304	202	73.0%	22.2%
Light & Medium Sour	45	133	618	459	512	566	1.8%	62.1%
Medium & Sweet	234	165	48	31	40	29	9.4%	3.2%
Medium & Sour	170						6.9%	
Heavy & Sweet	17	36	80	31	35	70	0.7%	7.7%
Heavy & Medium Sour	125	80	54	37	24	29	5.0%	3.2%
Heavy & Sour	78	58	37	17	19	16	3.1%	1.8%

(*) Data source: Eni's elaborations on Monthly Oil Data Services ° OECD/International Energy Agency, 2018 data.

Crude Production by Quality^(*) (thousand barrels/day)

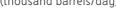
	2000	2005	2010	2015	2016	2017	Share of total	
	2000	2005	2010	2015	2010	2017	2000	2017
Russia and Central Asia (A)	7,771	11,664	13,373	13,931	14,114	14,241		
Ultra Light	77	177	268	396	405	405	1.0%	2.8%
Light & Sweet	308	322	1,938	1,089	1,050	1,009	4.0%	7.1%
Light & Medium Sour	708	1,281	1,196	1,708	1,656	1,818	9.1%	12.8%
Light & Sour	64	58	33	18	15	17	0.8%	0.1%
Medium & Sweet	265	462	212	350	380	406	3.4%	2.8%
Medium & Medium Sour	2	3	319	1,069	1,106	1,165	0.0%	8.2%
Medium & Sour	6,328	9,352	9,395	9,295	9,497	9,417	81.4%	66.1%
Heavy & Sweet	15	6	10	5	5	3	0.2%	0.0%
Heavy & Medium Sour								
Heavy & Sour								
Unassigned production (B)	4	4	2	2	1	1	0.1%	0.0%
% Unassigned production (B/A)	0.1	0.0	0.0	0.0	0.0	0.0		

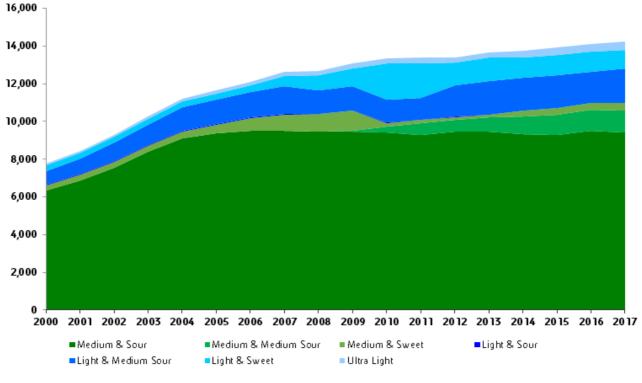
Quality and Production Volume of Main Crudes 2017 (**) (thousand barrels/day)



(*) Data source: Eni's elaborations on Monthly Oil Data Services * OECD/International Energy Agency, 2018 data. (** Data source: Eni.

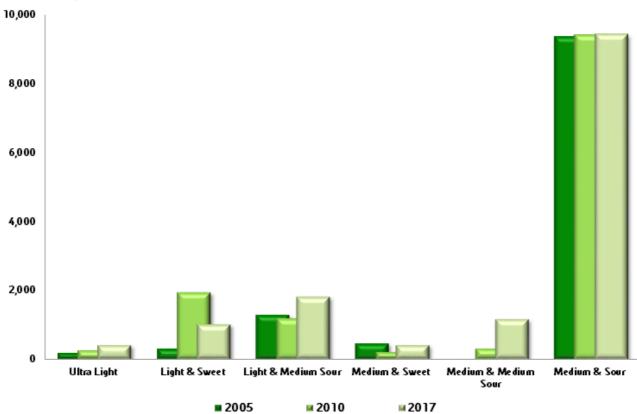






Crude Production by Quality^(*)

(selected years, thousand barrels/day)



(*) Data source: Eni's elaborations on Monthly Oil Data Services * OECD/International Energy Agency, 2018 data.

Countries^(*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share c	oftotal
	2000	2003	2010	2013	2010	2017	2000	2017
Azerbaijan	281	448	1,041	848	828	782		
Light & Sweet	149	145	1,012	820	802	757	53.0%	96.8%
Medium & Sweet	132	303	29	28	26	25	47.0%	3.2%
Kazakhstan	718	1,293	1,694	1,695	1,666	1,840		
Ultra Light Light & Sweet	10	12	6 564	19	18	22	1.4%	1.2%
Light & Medium Sour	708	1,281	1,124	1,676	1,648	1,818	98.6%	98.8%
Russia	6,527	9,636	10,390	11,087	11,341	11,357		
Ultra Light	50	145	251	368	377	377	0.8%	3.3%
Light & Sweet	148	139	261	109	118	124	2.3%	1.1%
Light & Medium Sour			72	32	8			
Medium & Sweet			96	215	237	276		2.4%
Medium & Medium Sour			318	1,069	1,104	1,164		10.2%
Medium & Sour	6,328	9,352	9,392	9,294	9,497	9,417	97.0%	82.9%
Turkmenistan	158	201	196	273	253	238		
Ultra Light		4	1	3	3	2		0.8%
Light & Sweet	10	33	99	159	129	127	6.5%	53.6%
Medium & Sweet	133	159	87	107	117	105	84.0%	44.2%
Heavy & Sweet	15	6	10	5	5	3	9.4%	1.4%
Uzbekistan	83	82	50	26	24	23		
Ultra Light	16	16	10	6	6	3	19.7%	14.8%
Light & Sweet		5	2	1	1	1		3.9%
Light & Sour	64	58	33	18	15	17	77.7%	75.0%
Medium & Medium Sour Medium & Sour	2	3	1 3	0 1	2	1	2.5%	6.3%

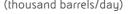
(*) Data source: Eni's elaborations on Monthly Oil Data Services ° OECD/International Energy Agency, 2018 data.

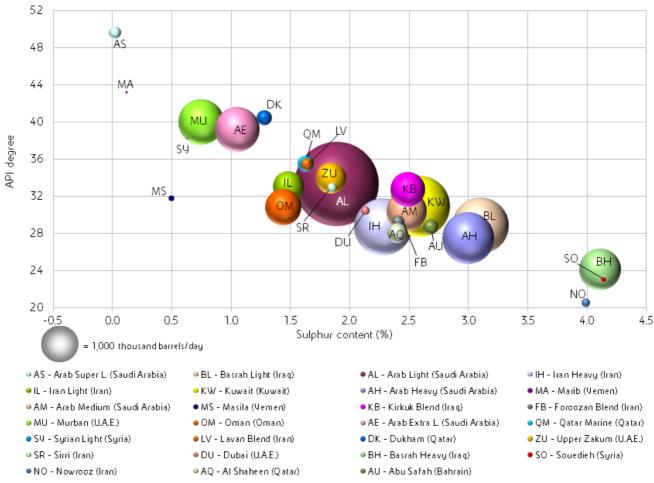
Crude Production by Quality^(*)

(thousand barrels/day)

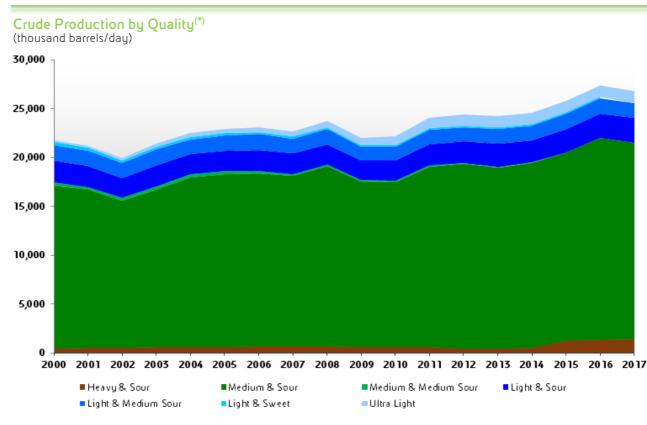
	2000	2005	2010	2015	2016	2017	Share of total	
	2000	2005		2015	2010	2017	2000	2017
Middle East	21,796	22,918	22,170	25,816	27,407	26,933		
Ultra Light	173	442	898	1,192	1,198	1,242	0.8%	4.6%
Light & Sweet	352	251	176	128	121	112	1.6%	0.4%
Light & Medium Sour	1,551	1,502	1,391	1,564	1,605	1,512	7.1%	5.6%
Light & Sour	2,294	2,122	2,049	2,371	2,448	2,563	10.5%	9.5%
Medium & Sweet								
Medium & Medium Sour	258	272	164	16	13	22	1.2%	0.1%
Medium & Sour	16,704	17,727	16,888	19,300	20,681	20,080	76.6%	74.6%
Heavy & Sweet								
Heavy & Medium Sour								
Heavy & Sour	464	603	605	1,245	1,341	1,403	2.1%	5.2%

Quality and Production Volume of Main Crudes 2017 (**) (thousand barrels/day)



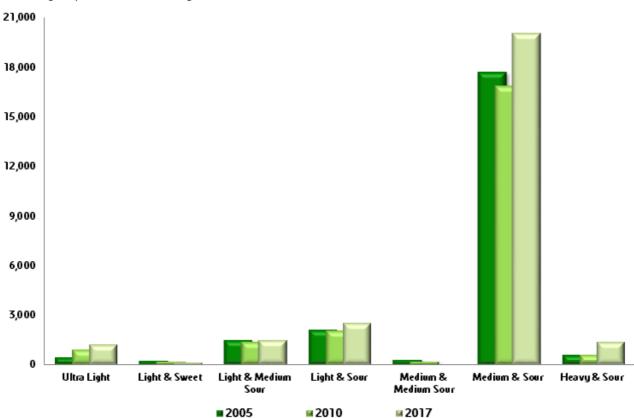


^(*) Data source: Eni's elaborations on *Monthly Oil Data Services* ° OECD/International Energy Agency, 2018 data.
^(**) Data source: Eni.



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



(*) Data source: Eni's elaborations on Monthly Oil Data Services ° OECD/International Energy Agency, 2018 data.

Countries^(*)

(thousand barrels/day)

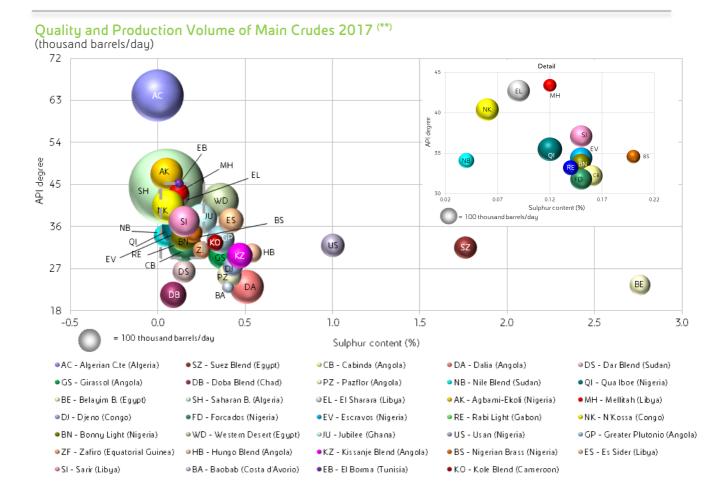
	2000		2010				Share o	ftotal
	2000	2005	2010	2015	2016	2017	2000	2017
Bahrain	187	187	182	202	202	200		
Medium & Sour	187	187	182	202	202	200	100.0%	100.0%
Iran	3,685	3,879	3,705	2,846	3,552	3,799		
Light & Sour						104		2.7%
Medium & Sour	3,685	3,771	3,558	2,729	3,433	3,571	100.0%	94.0%
Heavy & Sour		108	147	117	120	124		3.3%
Iraq	2,567	1,813	2,364	4,002	4,418	4,473		
Medium & Sour	2,567	1,813	2,364	2,956	3,210	3,208	100.0%	71.7%
Heavy & Sour				1,047	1,208	1,265		28.3%
Kuwait	2,045	2,423	2,298	2,787	2,884	2,707		
Medium & Sour	1,889	2,268	2,157	2,751	2,884	2,707	92.4%	100.0%
Heavy & Sour	156	155	140	35			7.6%	
Oman	956	774	865	982	1,004	971		
Medium & Sour	956	774	865	982	1,004	971	100.0%	100.0%
Qatar	860	1,216	1,636	1,844	1,848	1,852		
Ultra Light	173	442	898	1,192	1,198	1,242	20.1%	67.1%
Light & Sour	584	556	452	356	354	334	67.9%	18.1%
Medium & Sour	104	218	286	296	296	275	12.0%	14.9%
Saudi Arabia	8,278	9,353	8,177	10,160	10,416	9,958		
Light & Sweet	162	115	56	115	118	109	2.0%	1.1%
Light & Sour	1,269	1,076	1,101	1,331	1,397	1,459	15.3%	14.7%
Medium & Sour	6,690	8,007	6,879	8,677	8,902	8,390	80.8%	84.3%
Heavy & Sour	156	155	140	35			1.9%	
Syria	545	413	350	19	17	17		
Light & Medium Sour	393	228	172	9	4	3	72.2%	17.2%
Heavy & Sour	151	185	178	10	13	14	27.8%	82.8%
United Arab Emirates	2,238	2,458	2,311	2,946	3,050	2,933		
Light & Medium Sour	, 1,157	, 1,273	, 1,219	, 1,555	1,601	, 1,509	51.7%	51.5%
Light & Sour	441	490	495	684	696	666	19.7%	22.7%
Medium & Medium Sour	12	7					0.5%	
Medium & Sour	628	688	597	707	752	757	28.0%	25.8%
Yemen	437	400	284	28	16	25		
Light & Sweet	190	135	120	12	3	3	43.5%	13.3%
Medium & Medium Sour	247	265	164	16	13	22	56.5%	86.7%

(*) Data source: Eni's elaborations on Monthly Oil Data Services * OECD/International Energy Agency, 2018 data.

Crude Production by Quality^(*)

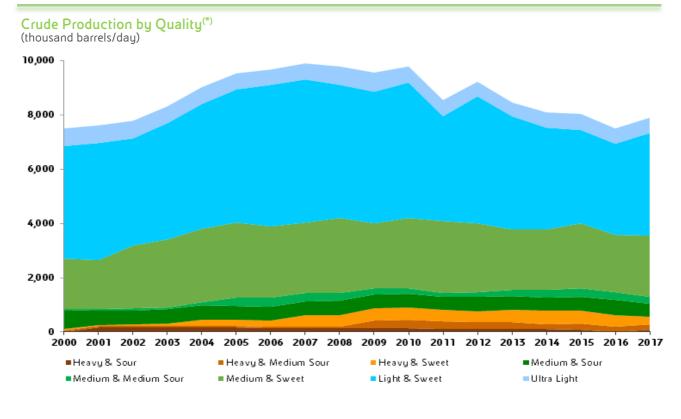
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2005	2010	2015	2010	2017	2000	2017
Africa (A)	7,538	9,573	9,897	8,097	7,569	7,950		
Ultra Light	630	603	589	581	583	569	8.4%	7.2%
Light & Sweet	4,166	4,911	4,987	3,453	3,351	3,774	55.3%	47.5%
Light & Medium Sour			77	17	9	15		0.2%
Light & Sour	21	20	32	23	22	18	0.3%	0.2%
Medium & Sweet	1,871	2,770	2,611	2,391	2,110	2,268	24.8%	28.5%
Medium & Medium Sour	23	293	186	308	294	258	0.3%	3.2%
Medium & Sour	710	520	516	513	570	465	9.4%	5.8%
Heavy & Sweet	38	225	445	481	410	279	0.5%	3.5%
Heavy & Medium Sour	61	56	320	219	201	213	0.8%	2.7%
Heavy & Sour		159	131	92		72		0.9%
Unassigned production (B)	16	16	4	20	20	19	0.2%	0.2%
% Unassigned production (B/A)	0.2	0.2	0.0	0.2	0.3	0.2		

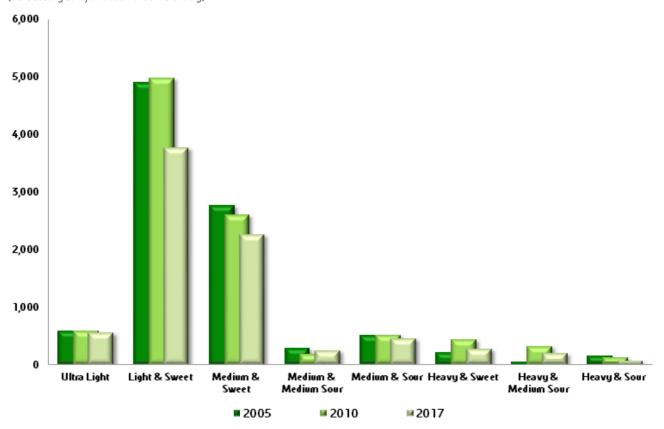


^(*) Data source: Eni's elaborations on *Monthly Oil Data Services* ° OECD/International Energy Agency, 2018 data.
^(**) Data source: Eni.

Africa



Crude Production by Quality^(*) (selected years, thousand barrels/day)



(*) Data source: Eni's elaborations on Monthly Oil Data Services * OECD/International Energy Agency, 2018 data.

Countries^(*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2005	2010	2013	2010	2017	2000	2017
Algeria	1,436	1,931	1,720	1,590	1,604	1,530		
Ultra Light	630	603	515	481	494	483	43.9%	31.6%
Light & Sweet	806	1,327	1,205	1,109	1,111	1,047	56.1%	68.4%
Angola	745	1,228	1,750	1,760	1,708	1,642		
Light & Sweet	355	280	356	248	245	203	47.6%	12.3%
Medium & Sweet	329	657	910	827	888	905	44.2%	55.1%
Medium & Medium Sour		235	165	299	248	215		13.1%
Heavy & Sweet				166	127	106		6.5%
Heavy & Medium Sour	61	56	320	219	201	213	8.2%	13.0%
Cameroon	114	89	64	95	90	75		
Medium & Sweet	76	53	37	64	54	46	66.8%	61.9%
Heavy & Sweet	38	37	27	31	36	29	33.2%	38.1%
Chad		170	120	129	120	121		
Heavy & Sweet		170	120	129	120	121		100.0%
Congo	256	239	307	231	234	276		
Light & Sweet	131	121	180	110	150	205	51.2%	74.3%
Medium & Sweet	125	118	127	121	84	71	48.8%	25.7%
Cote d'Ivoire	7	40	39	27	43	51		
Medium & Sweet	7	22	15	10	21	28	100.0%	54.9%
Heavy & Sweet		18	24	17	21	23		45.1%
Dem. Rep. Congo	23	25	25	22	21	20		
Medium & Sweet	23	25	25	22	21	20	100.0%	100.0%
Egypt	689	618	663	660	629	605		
Light & Sweet	122	153	199	245	240	233	17.7%	38.5%
Medium & Sour	567	306	334	324	389	300	82.3%	49.5%
Heavy & Sour		159	131	92		72		11.9%
Equatoria Guinea	144	380	311	276	231	212		
Ultra Light			74	100	90	86		40.8%
Light & Sweet	12	75	0				8.2%	
Medium & Sweet	128	263	237	176	103	89	88.3%	41.9%
Medium & Medium Sour	5	42	0		39	37	3.4%	17.3%

(*) Data source: Eni's elaborations on Monthly Oil Data Services • OECD/International Energy Agency, 2018 data.

Countries^(*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o 2000	f total 2017
Gabon	276	270	249	230	227	200		
Light & Sweet		77	97					
Medium & Sweet	191	69	43	115	118	108	69.3%	53.8%
Medium & Sour	85	124	108	114	109	93	30.7%	46.2%
Ghana	7	б	7	106	92	167		
Light & Sweet	7	б	7	106	92	167	100.0%	100.0%
Libya	1,411	1,640	1,550	402	391	827		
Light & Sweet	1,353	1,549	1,400	315	316	743	95.9%	89.8%
Light & Medium Sour			77	17	9	15		1.8%
Medium & Sour	58	90	73	70	66	70	4.1%	8.4%
Mauritania			9	5	4	4		
Medium & Medium Sour			9	5	4	4		100.0%
Nigeria	2,160	2,546	2,535	2,243	1,911	1,986		
Light & Sweet	1,344	1,287	1,509	1,303	1,181	1,159	62.2%	58.4%
Medium & Sweet Heavy & Sweet	816	1,259	1,012 14	940	730	826	37.8%	41.6%
Sudan	177	305	465	253	198	176		
Medium & Sweet Heavy & Sweet	177	305	205 259	115 138	92 107	176	100.0%	100.0%
Tunisia	76	71	79	49	46	40		
Light & Sweet	36	35	34	18	16	17	47.7%	43.3%
Light & Sour	21	20	32	23	22	18	28.0%	45.2%
Medium & Medium Sour	18	16	12	4	3	2	24.3%	4.3%
Medium & Sour				4	5	3		7.2%

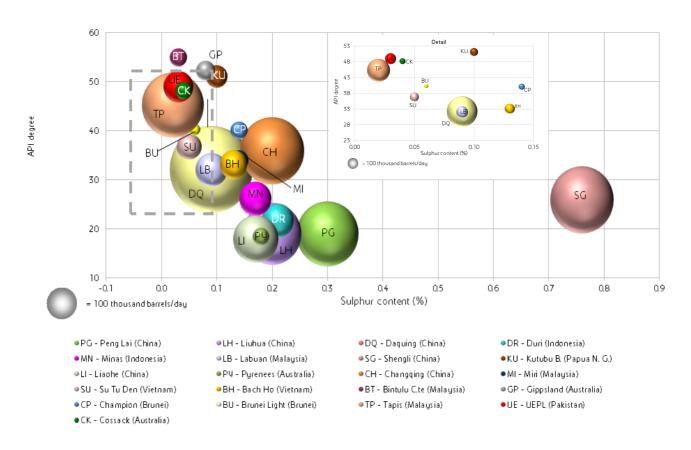
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2005	2010	2015	2016	2017	2000	2017
Asia - Pacific (A)	7,608	7,630	7,922	7,797	7,466	7,166		
Ultra Light	397	266	295	255	210	189	5.2%	2.6%
Light & Sweet	2,783	3,091	2,792	2,589	2,992	2,957	36.6%	41.3%
Light & Medium Sour	31	33				25	0.4%	0.3%
Light & Sour			35	32				
Medium & Sweet	2,913	2,545	2,730	2,897	2,209	2,043	38.3%	28.5%
Medium & Medium Sour	517	536	554	532	462	452	6.8%	6.3%
Medium & Sour	17	19	19	17	41	14	0.2%	0.2%
Heavy & Sweet	925	1,081	1,442	1,412	1,492	1,429	12.2%	19.9%
Heavy & Medium Sour								
Heavy & Sour								
Unassigned production (B)	26	59	55	63	59	56	0.3%	0.8%
% Unassigned production (B/A)	0.3	0.8	0.7	0.8	0.8	0.8		

Quality and Production Volume of Main Crudes 2017 (**)

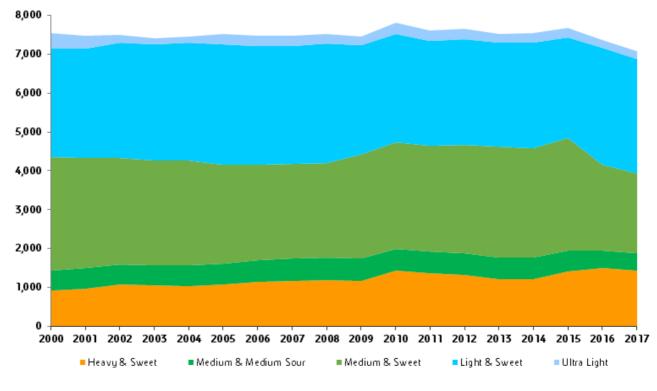
(thousand barrels/day)



(*) Data source: Eni's elaborations on *Monthly Oil Data Services* ° OECD/International Energy Agency, 2018 data. (**) Data source: Eni.

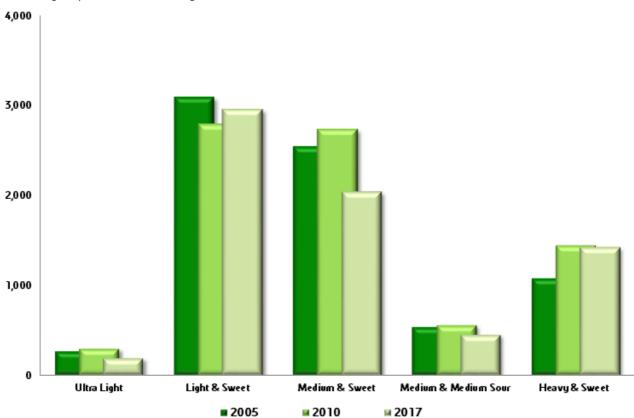
Asia - Pacific

Crude Production by Quality^(*) (thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



Countries^(*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o 2000	f total 2017
Australia	721	456	479	322	290	263		
Ultra Light	311	50	85	68	60	54	43.1%	20.5%
Light & Sweet	372	364	220	163	149	145	51.6%	55.2%
Heavy & Sweet	38	42	174	91	81	64	5.3%	24.3%
Brunei	195	206	169	127	121	113		
Ultra Light	195	18	16	127	121	13	8.2%	11.1%
•	18		10	14	12	43		37.7%
Light & Sweet		149					60.6%	
Medium & Sweet Heavy & Sweet	6 55	3 36	35	101	95	58	3.1% 28.1%	51.2%
China	3,259	3,594	4,020	4,222	3,931	3,789		
Light & Sweet	249	394	318	273	711	697	7.6%	18.4%
Light & Medium Sour	31	33				25	1.0%	0.7%
Light & Sour			35	32				
Medium & Sweet	1,997	1,915	2,107	2,250	1,489	1,417	61.3%	37.4%
Medium & Medium Sour	, 517	, 536	, 554	, 532	, 462	, 452	15.9%	11.9%
Medium & Sour	17	19	19	17	41	14	0.5%	0.4%
Heavy & Sweet	448	696	986	1,118	1,227	1,184	13.8%	31.2%
East Timor		100	88	60	49	40		
Ultra light		100	88	60	49	40		100.0%
		100	00	00		10		100.070
India	659	656	768	753	734	733		
Light & Sweet	552	562	673	666	650	644	83.8%	87.9%
Medium & Sweet	40	27	23	20	19	20	6.1%	2.7%
Heavy & Sweet	67	67	72	67	65	69	10.2%	9.4%
Indonesia	1,443	1,075	949	777	832	801		
Ultra Light	29	45	42	25	1	0	2.0%	0.1%
Light & Sweet	604	460	453	370	389	379	41.9%	47.3%
Medium & Sweet	494	330	244	246	324	309	34.2%	38.6%
Heavy & Sweet	316	240	209	136	119	112	21.9%	14.0%
Malaysia	704	779	702	686	693	680		
Ultra Light	41	53	64	32	32	32	5.8%	4.7%
Light & Sweet	559	655	481	500	502	498	79.4%	73.2%
Medium & Sweet	104	72	157	154	160	150	14.7%	22.1%
meanin & oweet	104	12	157	1JT	100	150	1 1.7 70	22.170

Countries^(*)

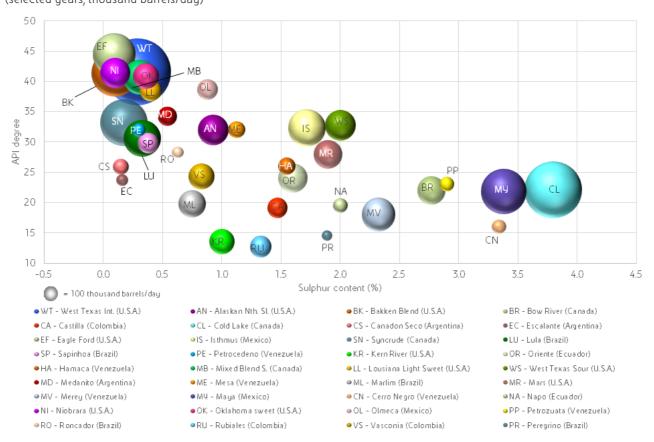
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	
							2000	2017
New Zealand	35	31	55	41	35	31		
Light & Sweet	35	31	38	34	28	26	100.0%	83.0%
Medium & Sweet			16	7	7	5		17.0%
Pakistan	58	66	66	106	104	97		
Light & Sweet	58	66	66	106	104	97	100.0%	100.0%
Papua New Guinea	64	54	31	58	56	50		
Ultra Light				58	56	50		100.0%
Light & Sweet	64	54	31				100.0%	
Thailand	120	196	242	248	258	240		
Light & Sweet	120	196	242	248	258	240	100.0%	100.0%
Vietnam	325	358	299	333	304	272		
Light & Sweet	52	161	151	215	188	189	16.1%	69.4%
Medium & Sweet	272	198	148	118	116	83	83.9%	30.6%

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2005	2010	2015	2016	2017	2000	2017
Americas (A)	17,198	17,433	17,518	22,615	21,628	21,941		
Ultra Light	64	183	145	668	676	642	0.4%	2.9%
Light & Sweet	3,377	2,710	2,974	6,587	5,920	6,429	19.6%	29.3%
Light & Medium Sour	551	190	368	315	300	242	3.2%	1.1%
Light & Sour								
Medium & Sweet	883	1,411	1,504	2,260	2,401	2,598	5.1%	11.8%
Medium & Medium Sour	1,630	1,641	1,714	1,304	1,452	1,413	9.5%	6.4%
Medium & Sour	3,994	3,629	3,564	3,406	3,210	2,922	23.2%	13.3%
Heavy & Sweet	320	265	328	292	266	248	1.9%	1.1%
Heavy & Medium Sour	1,149	1,448	1,702	1,659	1,348	1,383	6.7%	6.3%
Heavy & Sour	4,893	5,593	4,908	5,837	5,727	5,705	28.4%	26.0%
Unassigned production (B)	338	363	311	288	326	358	2.0%	1.6%
% Unassigned production (B/A)	2.0	2.1	1.8	1.3	1.5	1.6		

Quality and Production Volume of Main Crudes 2017 (**) (selected years, thousand barrels/day)



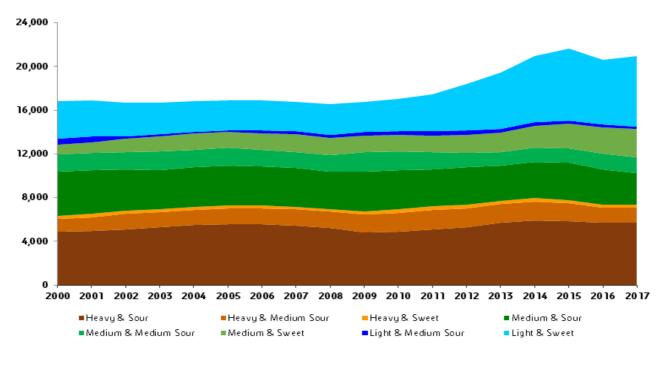
(*) Data source: Eni's elaborations on *Monthly Oil Data Services* ° OECD/International Energy Agency, 2018 data. (**) Data source: Eni.

World Oil Review 2018

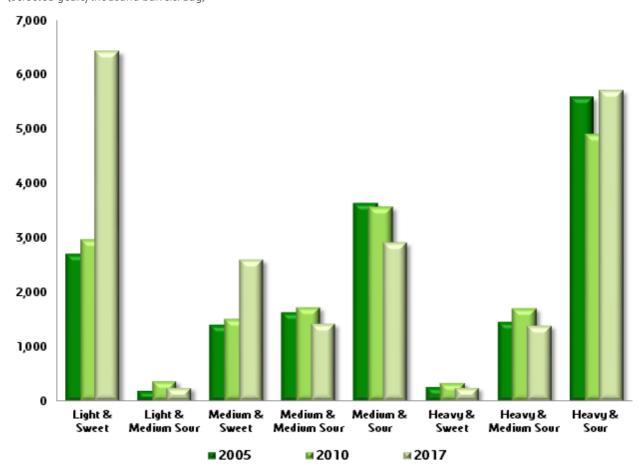
Americas

Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*) (selected years, thousand barrels/day)



Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	ftotal
	2000	2003	2010	2013	2010	2017	2000	2017
a	001	700	500	570	5 3 3	(70		
Argentina	801	702	589	532	511	479		(50(
Ultra light	100	40	22	21	22	22	1 5 00/	4.5%
Light & Sweet	120	99	85	77	73	69	15.0%	14.3%
Medium & Sweet	7.00	200	255	17	21	26	(= 0.0/	5.4%
Medium & Medium Sour	360	298	255	213	199	180	45.0%	37.6%
Heavy & Sweet	320	265	227	205	196	183	40.0%	38.2%
Brazil	1,231	1,634	2,055	2,436	2,436	2,510		
Light & Sweet				6	17	13		0.5%
Light & Medium Sour	47	46	48	38	34	32	3.8%	1.3%
Medium & Sweet			20	666	872	969		38.6%
Medium & Medium Sour	269	448	581	323	364	316	21.8%	12.6%
Heavy & Sweet			100	87	71	65		2.6%
Heavy & Medium Sour	915	1,139	1,286	1,221	1,001	1,046	74.4%	41.7%
Heavy & Sour			19	95	77	68		2.7%
Canada	2,015	2,372	2,724	3,678	3,679	3,974		
Light & Sweet	832	728	681	670	579	594	41.3%	14.9%
Medium & Sweet	334	674	939	1,046	1,045	1,154	16.6%	29.0%
Medium & Medium Sour				127	169	176		4.4%
Heavy & Sour	849	970	1,104	1,835	1,886	2,050	42.1%	51.6%
Memo: Syncrude production is included in Medium & Sweet	334	568	818	1,001	1,004	1,111	16.6%	28.0%
Memo: bitumen production is included in Heavy & Sour	288	445	680	1,406	1,485	1,647	14.3%	41.4%
Colombia	684	526	786	1,006	880	853		
Light & Sweet	340	135	51	49	53	49	49.7%	5.7%
Medium & Sweet	105	74	61	42			15.3%	
Medium & Medium Sour					36	32		3.8%
Heavy & Medium Sour	234	309	416	438	347	337	34.1%	39.5%
Heavy & Sour	6	8	258	476	443	434	0.9%	50.9%

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	Share o	f total
	2000	2005	2010	2015	2016	2017	2000	2017
Ecuador	401	532	466	541	547	531		
Heavy & Sour	401	532	466	541	547	531	100.0%	100.0%
Mexico	3,012	3,333	2,577	2,267	2,154	1,948		
Light & Medium Sour	504	144	320	277	266	210	16.7%	10.8%
Medium & Sour	733	802	834	838	785	689	24.3%	35.4%
Heavy & Sour	1,775	2,387	1,422	1,152	1,103	1,049	58.9%	53.8%
United States	5,822	5,184	5,475	9,408	8,857	9,321		
Ultra light	21	11	28	553	569	517	0.4%	5.5%
Light & Sweet	2,085	1,747	2,157	5,785	5,198	5,704	35.8%	61.2%
Medium & Sweet	444	507	370	380	365	367	7.6%	3.9%
Medium & Medium Sour	1,001	895	878	641	683	707	17.2%	7.6%
Medium & Sour	1,472	1,398	1 <i>,</i> 501	1,531	1,544	1,536	25.3%	16.5%
Heavy & Sour	800	625	542	518	497	490	13.7%	5.3%
Venezuela	2,894	2,788	2,535	2,460	2,239	1,966		
Ultra light	43	131	96	94	86	104	1.5%	5.3%
Medium & Sweet		156	114	109	98	83		4.2%
Medium & Sour	1,789	1,429	1,228	1,037	881	697	61.8%	35.5%
Heavy & Sour	1,062	1,071	1,097	1,220	1,173	1,083	36.7%	55.1%

Oil – Refining Industry

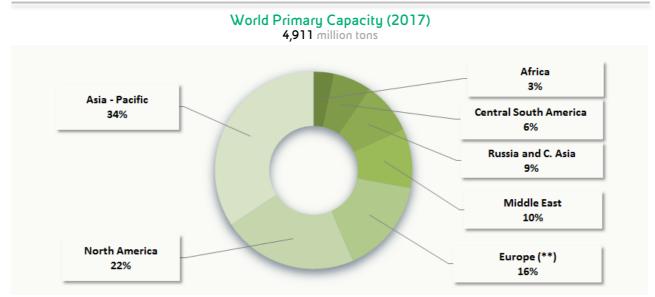
Refining Capacity

World Oil Review 2018

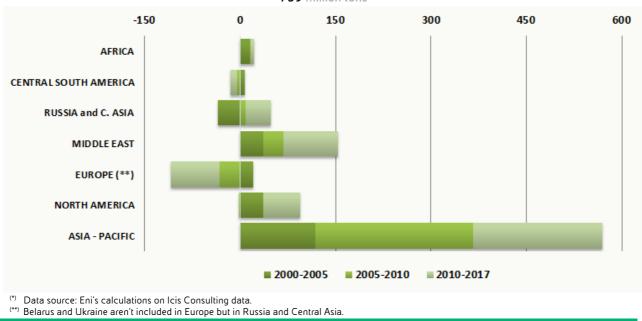
Oil - Refining Industry

Areas and Aggregates (*)

			00	2005								
	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexit FCC eqv. (%)	y Ratio NCI	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexit FCC eqv. (%)	y Ratio NCI
Europe (**)	148	852	17,058	268	31	8.3	137	873	17,476	298	34	8.7
Russia and Central Asia	58	404	8,133	55	14	5.8	61	370	7,448	63	17	6.7
Middle East	46	325	6,527	52	16	5.4	47	361	7,324	61	17	5.5
Africa	47	142	2,837	16	11	4.9	46	158	3,154	26	17	5.6
Asia - Pacific	235	1116	22,369	397	36	7.0	260	1,234	24,724	551	45	7.4
Americas	256	1313	26,272	787	60	9.9	253	1,358	27,184	855	63	10.2
- North America	182	997	1 <i>9,947</i>	659	66	10.8	175	1,034	20,696	709	69	11.1
- Central South America	74	316	6,325	128	41	7.1	78	324	6,488	146	45	7.3
World	790	4,153	83,196	1,575	38	7.9	804	4,355	87,310	1,855	43	8.2



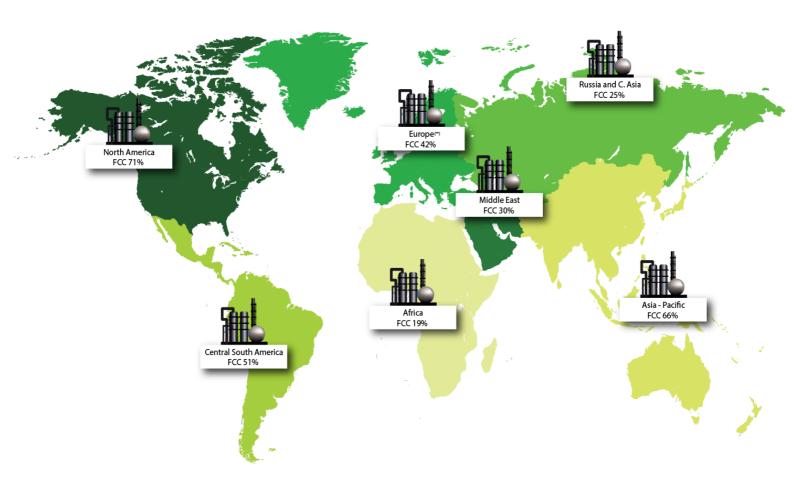
World Primary Capacity Growth (2000-2017) 759 million tons



Oil - Refining Industry

	2010						2017					
Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexil FCC eqv. (%)	ty Ratio NCI	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexi FCC eqv. (%)	ty Ratio NCI	
128	840	16,807	309	37	8.9	111	765	15,295	319	42	9.3	Europe ^(**)
67	379	7,619	66	18	6.9	73	419	8,445	104	25	7.7	Russia and Central Asia
57	394	8,006	79	20	6.0	60	478	9,736	141	30	7.2	Middle East
46	159	3,191	27	17	5.7	49	164	3,296	32	19	5.9	Africa
298	1,482	29,720	794	54	8.3	331	1,686	33,868	1,105	66	9.7	Asia - Pacific
242	1,353	27,075	873	65	10.5	239	1,400	28,054	932	67	10.7	Americas
167	1,033	20,676	721	70	11.5	164	1,091	21,866	774	71	11.5	North America -
75	319	6,399	153	48	7.4	75	309	6,188	158	51	7.8	Central South America -
838	4,606	92,418	2,148	47	8.7	863	4,911	98,694	2,633	54	9.3	World

2017 Complexity ratio (FCC eqv. %)

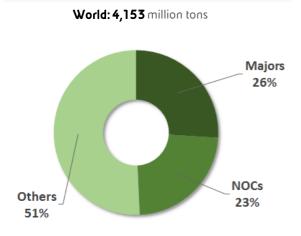


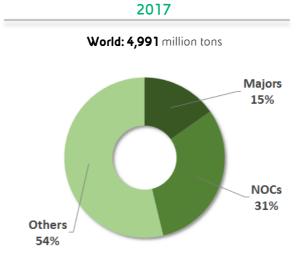
Oil - Refining Industry

Refining Capacity

Primary Capacity by Cluster of Companies^(*)

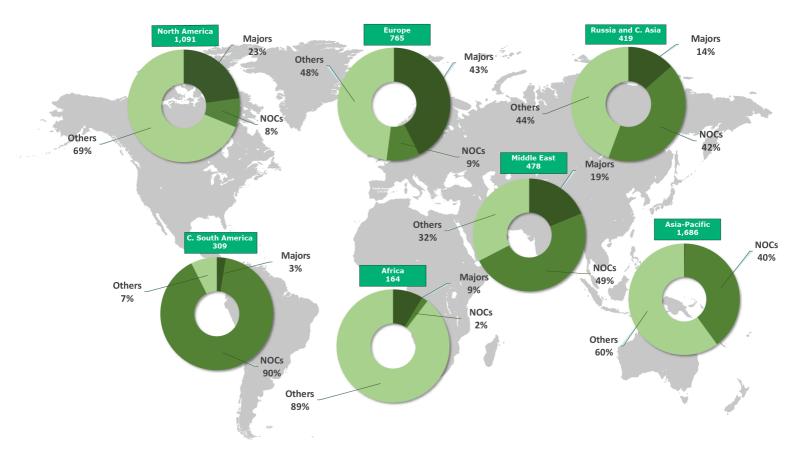
2000





2017

(million tons)



(*) Majors: ExxonMobil, BP, Shell, Chevron, Total, Eni, Statoil.

NOCs: CNOOC, Gazprom, Indian Oil Corporation, KNOC, Kuwait Petroleum Corp., Lukoil, Mitsui, NIORDC, ONGC, PdVSA, Pemex, Pertamina, Petrobras, PetroChina, Petronas, PTT, Reliance, Rosneft, Saudi Aramco, Sinopec.



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