



O&GR

volume 1

World Oil Review 2019

World Oil Review 2019

Complexity and volatility are fundamental factors of the energy business.

This sector is facing a growing challenge in continuing to satisfy an increasing energy demand for a growing population while reducing the environmental and carbon footprint of its sources.

Mastering the knowledge of the energy industry is a key element to manage this complexity: our 18th World Oil, Gas and Renewables Review aims to provide a greater comprehension on the main trends.

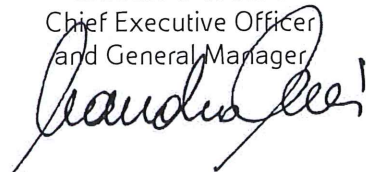
Our yearly statistical review is split in two volumes. This first volume, the **World Oil Review**, is devoted to oil with a special focus on the evolution of crude oil quality and the refining industry. The second volume, the **World Gas and Renewables Review**, dedicated to natural gas and renewables sources (solar, wind and biofuels), will be published in autumn.

The main highlights of this oil review are the following:

- Global oil demand continued to grow. 2018 reported an 1.4% increase. Asia-Pacific appeared to be the most prolific area with China and India accounting for half of the global demand growth. European demand instead remained virtually stationary.
- 2018 recorded an overall growth in production of 2.5 Mb/d, 88% of which was due to the USA, which reached a new production record, doubled its export volumes and became a top ten exporter.
- OPEC registered a “zero growth” as production increases in the Arab Gulf countries were offset by losses in Iran and Venezuela due to geopolitical issues. Geopolitics, OPEC/non-OPEC alliance and the sustained growth in consumption led to a 30% rise in oil price compared to 2017.
- The tight oil phenomenon continued to increase the share of light sweet crudes worldwide (above 20%), while the reduction in Venezuela and Mexico output reduced the medium sour crudes for the first time to less than 40% of the total output, with relevant implications for the downstream industry.
- Asia leads the global refining capacity growth accounting for over 75% of the 1 Mb/d increase versus 2017.

I hope that also this new edition of the World Oil, Gas and Renewables Review might be a useful tool for the readers to understand the dynamics of the energy markets.

Claudio Descalzi
Chief Executive Officer
and General Manager



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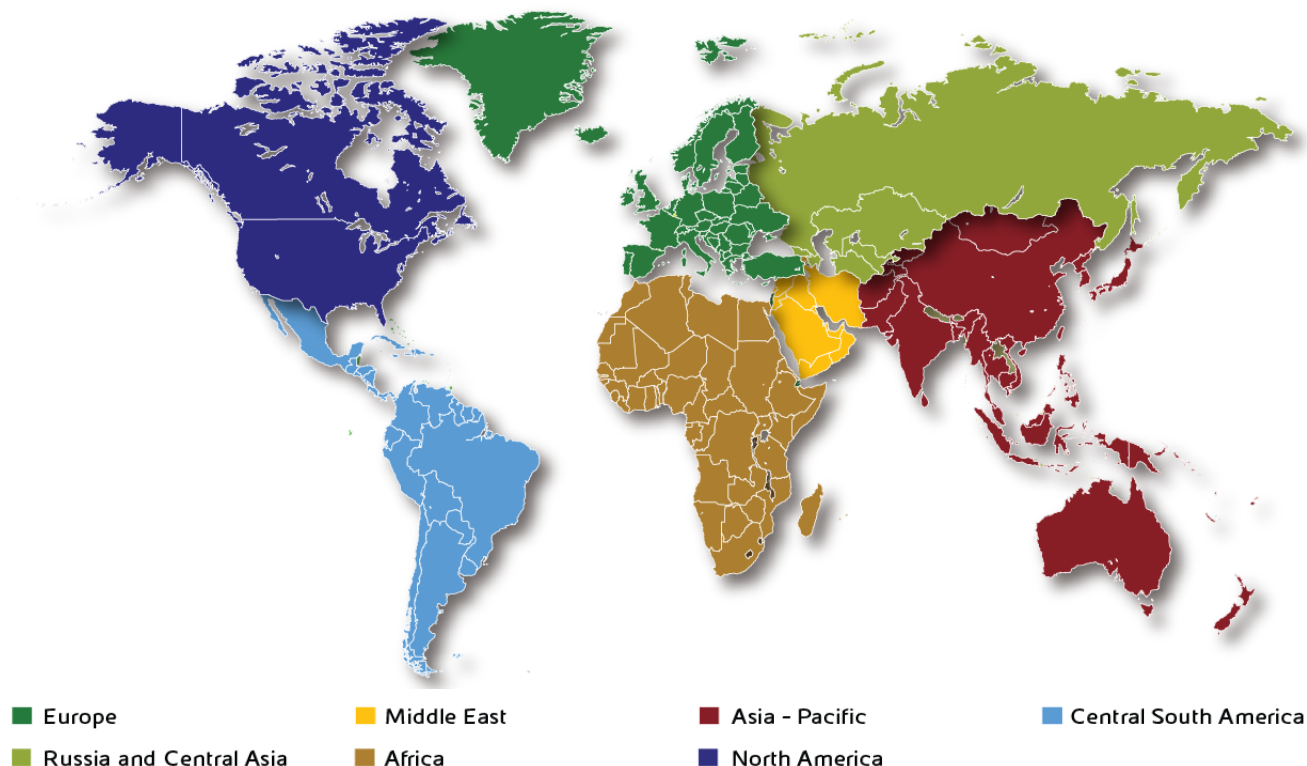
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List of Countries:

- **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 and 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, Dem. Rep. Congo, 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, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen and Algeria, Egypt, Libya, Morocco and 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.

Following the Qatar exit from OPEC (1st January 2019), IEA includes Qatar condensate in crude oil and no more in natural gas liquids data. The new accounting method is applied to the whole series.

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: $API\ gravity = (141.5/SG\ at\ 60^{\circ}F) - 131.5$, 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	API level equal to or greater than 26° and less than 35°, sulphur content equal to or greater than 0.5% and less than 1%
Medium & Sour	API level equal to or greater than 26° and less than 35°, sulphur content equal to or greater than 1%
Heavy & Sweet	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-sulfonic	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	Isomerization-c4	0.00	15.00
Condensate distillation	0.00	1.00	Isomerization-ln	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 catcracking	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

Oil - Supply and Demand

Reserves

Production

Reserves/Production Ratio

Consumption

Per Capita Consumption

Production/Consumption Ratio

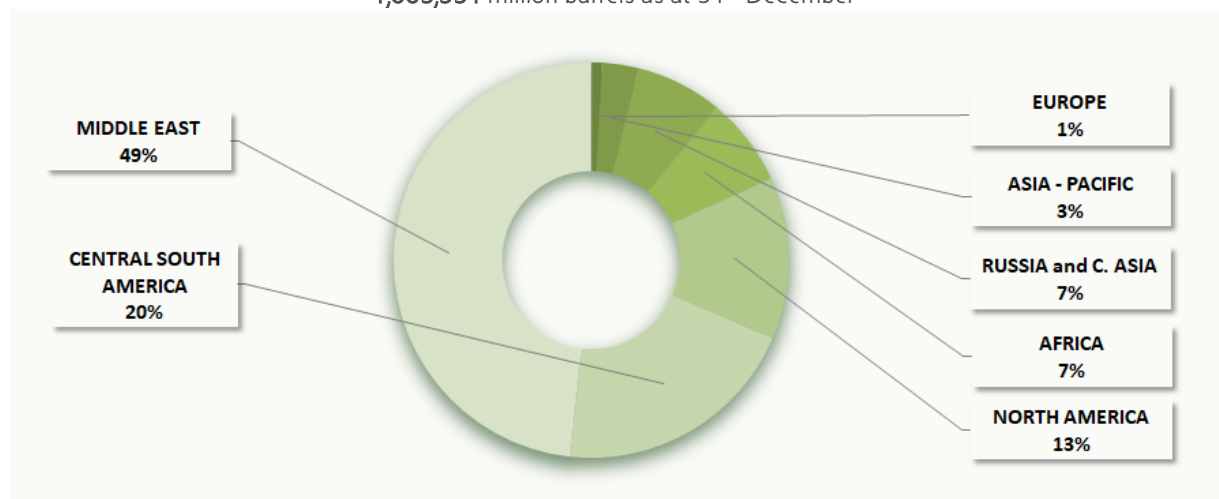
Areas and Aggregates^(*)

(million barrels as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe	21,348	18,105	14,658	14,945	14,395	14,589	15,265	4.6%	-1.8%
Russia and Central Asia	56,384	77,228	98,320	118,333	118,329	118,301	118,301	0.0%	4.2%
Middle East	692,991	751,691	794,654	802,913	807,790	804,658	803,220	-0.2%	0.8%
Africa	93,161	111,540	124,832	121,990	122,260	120,865	120,160	-0.6%	1.4%
Asia - Pacific	38,876	42,850	48,618	50,491	50,323	49,230	49,008	-0.5%	1.3%
Americas	330,973	319,986	537,229	547,821	544,136	548,467	557,376	1.6%	2.9%
- North America	205,021	203,063	200,029	206,742	205,766	210,912	220,407	4.5%	0.4%
- Central South America	125,953	116,923	337,200	341,078	338,369	337,556	336,969	-0.2%	5.6%
World	1,233,734	1,321,400	1,618,312	1,656,492	1,657,232	1,656,111	1,663,331	0.4%	1.7%
European Union	8,775	7,237	6,212	5,791	5,550	5,261	5,233	-0.5%	-2.8%
MENA	744,359	809,706	858,877	867,376	872,163	868,972	867,534	-0.2%	0.9%
OECD	257,747	236,602	228,580	234,752	230,571	235,236	244,603	4.0%	-0.3%
NON OECD	975,986	1,084,798	1,389,732	1,421,740	1,426,661	1,420,875	1,418,727	-0.2%	2.1%
OPEC	850,823	929,722	1,198,032	1,212,902	1,219,480	1,215,809	1,213,666	-0.2%	2.0%
NON OPEC	382,911	391,678	420,280	443,590	437,753	440,302	449,665	2.1%	0.9%

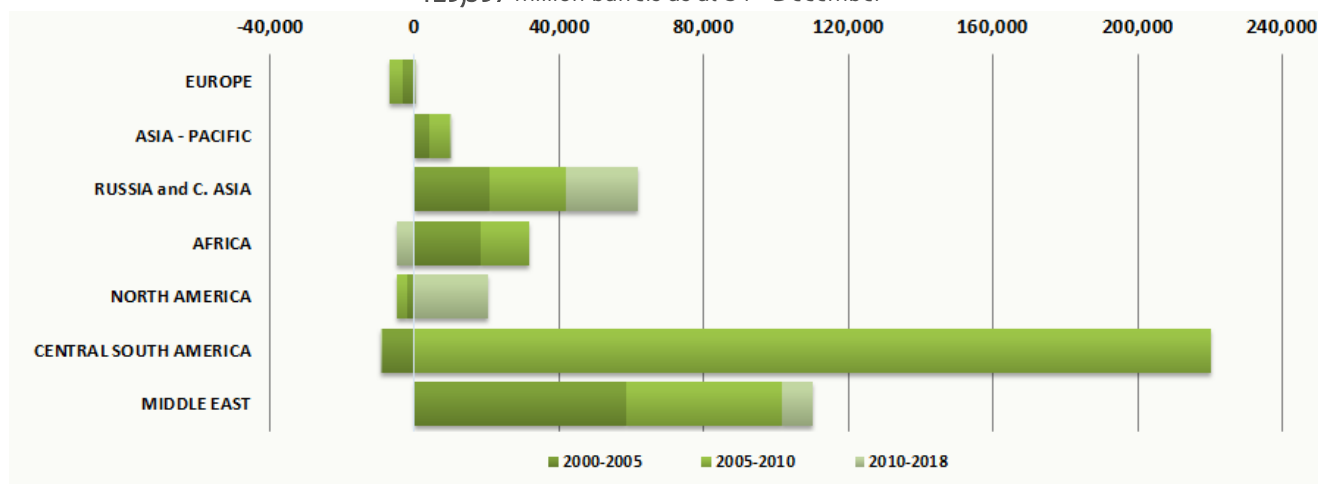
World Oil Reserves (2018)

1,663,331 million barrels as at 31st December



World Oil Reserves Growth (2000-2018)

429,597 million barrels as at 31st December



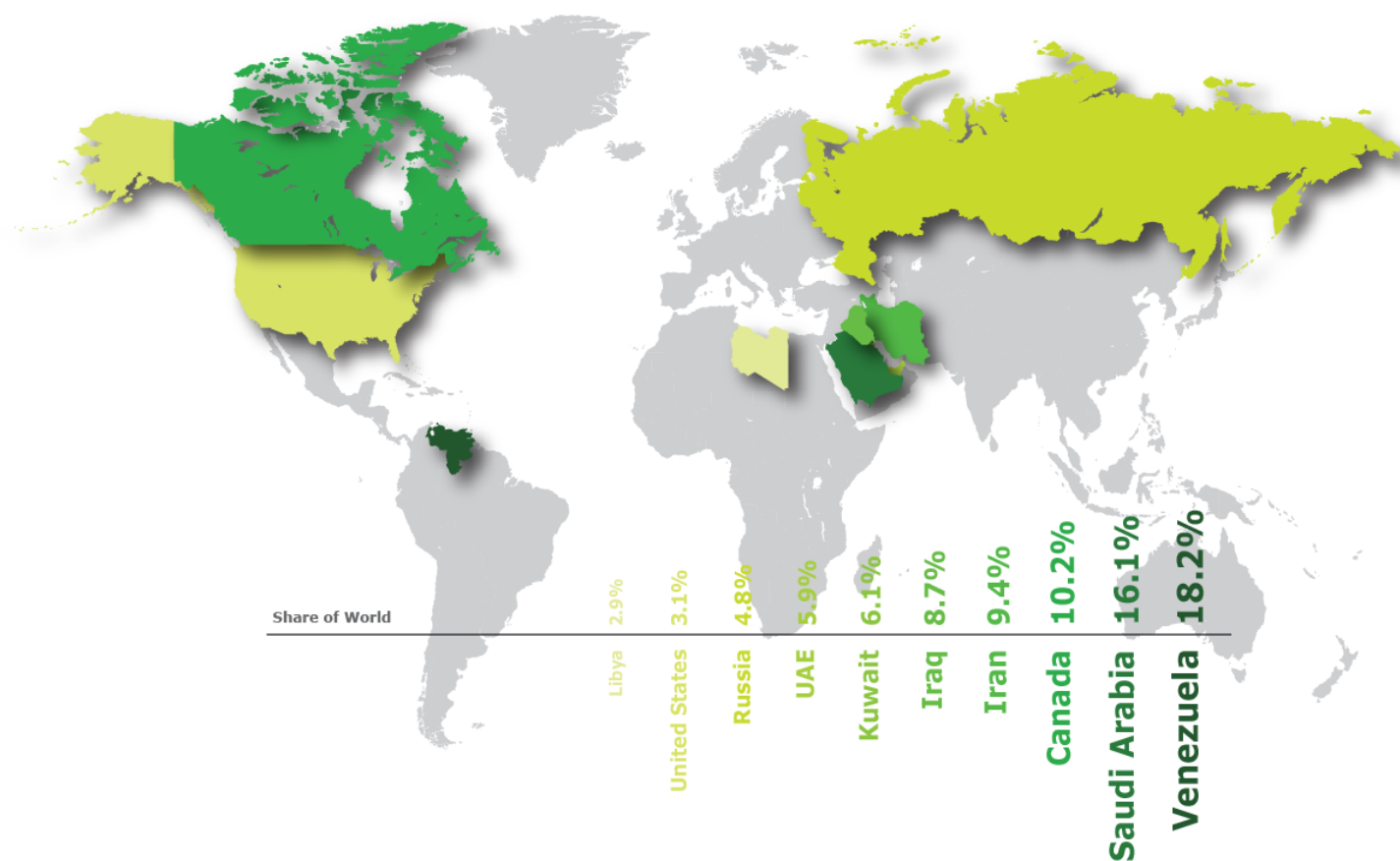
^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data* and other official data sources.

The World Top 10 Reserves Holders^(*)

(million barrels as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Venezuela	76,848	80,012	296,501	300,878	302,250	302,809	302,809	0.0%	7.9%
Saudi Arabia	262,766	264,211	264,516	266,455	266,208	266,260	267,026	0.3%	0.1%
Canada	181,504	180,044	174,848	171,512	170,553	168,922	168,922	0.0%	-0.4%
Iran	99,530	136,270	151,170	158,400	157,200	155,600	155,600	0.0%	2.5%
Iraq	112,500	115,000	143,100	142,503	148,766	147,223	145,019	-1.5%	1.4%
Kuwait	96,500	101,500	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	97,800	0.0%	0.0%
Russia	48,573	60,000	60,000	80,000	80,000	80,000	80,000	0.0%	2.8%
United States	23,517	23,019	25,181	35,230	35,213	41,990	51,485	22.6%	4.4%
Libya	36,000	41,464	47,097	48,363	48,363	48,363	48,363	0.0%	1.7%
The World Top 10	1,035,538	1,099,320	1,361,713	1,402,641	1,407,853	1,410,467	1,418,524	0.6%	1.8%
Rest of the world	198,196	222,080	256,599	253,851	249,379	245,644	244,807	-0.3%	1.2%
World	1,233,734	1,321,400	1,618,312	1,656,492	1,657,232	1,656,111	1,663,331	0.4%	1.7%

The World Top 10 (2018)



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

Countries^(*)

(million barrels as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe	21,348	18,105	14,658	14,945	14,395	14,589	15,265	4.6%	-1.8%
Albania	176	200	289	319	310	246	246	0.0%	1.9%
Austria	92	63	73	80	78	62	62	0.0%	-2.2%
Belarus	211	200	287	317	308	244	244	0.0%	0.8%
Bulgaria	16	16	16	16	16	16	16	0.0%	0.0%
Croatia	98	70	106	117	114	90	90	0.0%	-0.5%
Czech Republic	16	15	22	24	23	19	19	0.0%	0.8%
Denmark	1,113	1,277	899	491	440	440	440	0.0%	-5.0%
France	155	159	147	162	157	125	125	0.0%	-1.2%
Germany	405	370	400	442	430	341	341	0.0%	-1.0%
Greece	11	7	15	16	16	12	12	0.0%	0.8%
Hungary	117	104	39	43	42	33	33	0.0%	-6.8%
Italy (**)	577	443	559	595	521	571	554	-3.1%	-0.2%
Lithuania	13	12	17	19	19	15	15	0.0%	0.8%
Netherlands	114	107	145	160	156	123	113	-8.5%	-0.1%
Norway	11,366	9,688	6,804	7,340	7,082	7,931	8,635	8.9%	-1.5%
Poland	123	97	139	154	149	118	118	0.0%	-0.2%
Romania	1,170	458	600	600	600	600	600	0.0%	-3.6%
Serbia	83	79	113	125	121	96	96	0.0%	0.8%
Slovakia	10	9	13	14	14	11	11	0.0%	0.8%
Spain	22	159	218	240	234	185	185	0.0%	12.5%
Turkey	315	303	380	420	408	323	323	0.0%	0.1%
Ukraine	421	399	573	633	615	487	487	0.0%	0.8%
United Kingdom	4,725	3,870	2,805	2,618	2,542	2,500	2,500	0.0%	-3.5%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Russia and Central Asia	56,384	77,228	98,320	118,333	118,329	118,301	118,301	0.0%	4.2%
Russia	48,573	60,000	60,000	80,000	80,000	80,000	80,000	0.0%	2.8%
Azerbaijan	1,178	7,000	7,000	7,000	7,000	7,000	7,000	0.0%	10.4%
Georgia	37	35	51	56	54	43	43	0.0%	0.8%
Kazakhstan	5,400	9,000	30,000	30,000	30,000	30,000	30,000	0.0%	10.0%
Kyrgyzstan	43	40	58	64	62	49	49	0.0%	0.8%
Tajikistan	13	12	17	19	19	15	15	0.0%	0.8%
Turkmenistan	546	546	600	600	600	600	600	0.0%	0.5%
Uzbekistan	594	594	594	594	594	594	594	0.0%	0.0%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Middle East	692,991	751,691	794,654	802,913	807,790	804,658	803,220	-0.2%	0.8%
Bahrain	160	126	181	200	195	154	154	0.0%	-0.2%
Iran	99,530	136,270	151,170	158,400	157,200	155,600	155,600	0.0%	2.5%
Iraq	112,500	115,000	143,100	142,503	148,766	147,223	145,019	-1.5%	1.4%
Israel	4	2	3	3	3	2	2	0.0%	-3.0%
Jordan	1	1	1	2	2	1	1	0.0%	1.4%
Kuwait	96,500	101,500	101,500	101,500	101,500	101,500	101,500	0.0%	0.3%
Oman	5,848	5,572	5,500	5,306	5,373	5,373	5,373	0.0%	-0.5%
Qatar	13,157	25,288	25,382	25,244	25,244	25,244	25,244	0.0%	3.7%
Saudi Arabia	262,766	264,211	264,516	266,455	266,208	266,260	267,026	0.3%	0.1%
Syria	2,325	3,000	2,500	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	97,800	0.0%	0.0%
Yemen	2,400	2,921	3,000	3,000	3,000	3,000	3,000	0.0%	1.2%

(*) 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^(*)

(million barrels as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Africa	93,161	111,540	124,832	121,990	122,260	120,865	120,160	-0.6%	1.4%
Algeria	11,314	12,270	12,200	12,200	12,200	12,200	12,200	0.0%	0.4%
Angola	5,972	9,050	9,055	9,524	9,523	8,384	8,160	-2.7%	1.7%
Benin	9	8	12	13	12	10	10	0.0%	0.8%
Cameroon	426	404	290	320	311	247	247	0.0%	-3.0%
Chad	900	1,500	1,500	1,500	1,500	1,500	1,500	0.0%	2.9%
Congo	1,650	1,506	1,600	1,600	1,600	1,600	1,600	0.0%	-0.2%
Côte d'Ivoire	107	101	145	160	156	123	123	0.0%	0.8%
Dem. Rep. Congo	199	189	261	288	280	222	222	0.0%	0.6%
Egypt	3,627	3,720	4,500	3,473	3,384	3,325	3,325	0.0%	-0.5%
Equatorial Guinea	800	1,805	1,705	1,100	1,100	1,100	1,100	0.0%	1.8%
Gabon	2,420	2,146	2,000	2,000	2,000	2,000	2,000	0.0%	-1.1%
Ghana	18	17	677	684	681	681	681	0.0%	22.3%
Libya	36,000	41,464	47,097	48,363	48,363	48,363	48,363	0.0%	1.7%
Mauritania	0	0	145	160	156	123	123	0.0%	
Morocco	2	1	1	2	2	1	1	0.0%	-3.0%
Niger	0	0	0	147	147	144	144	0.0%	
Nigeria	29,000	36,220	37,200	37,062	37,453	37,453	36,972	-1.3%	1.4%
Sierra Leone	0	0	0	440	440	440	440	0.0%	
South Africa	30	16	22	24	23	19	19	0.0%	-2.6%
Sudan	262	563	5,000	1,500	1,500	1,500	1,500	0.0%	10.2%
Tunisia	425	560	425	425	425	425	425	0.0%	0.0%
Uganda	0	0	997	1,004	1,004	1,004	1,004	0.0%	

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Asia - Pacific	38,876	42,850	48,618	50,491	50,323	49,230	49,008	-0.5%	1.3%
Australia	4,944	3,718	3,831	3,985	3,985	3,995	3,995	0.0%	-1.2%
Bangladesh	61	28	41	45	44	35	35	0.0%	-3.1%
Brunei	1,230	1,105	1,100	1,100	1,100	1,100	1,100	0.0%	-0.6%
China	15,190	18,175	23,173	25,522	25,559	25,559	25,559	0.0%	2.9%
India	5,290	5,919	4,818	4,535	4,409	4,339	4,270	-1.6%	-1.2%
Indonesia	5,123	4,188	3,990	3,230	3,230	3,310	3,170	-4.2%	-2.6%
Japan	63	60	64	70	68	54	54	0.0%	-0.8%
Malaysia	3,390	5,290	5,799	5,907	5,907	5,028	5,028	0.0%	2.2%
Mongolia	15	15	15	257	257	257	257	0.0%	17.2%
Myanmar	53	50	73	80	78	62	62	0.0%	0.8%
New Zealand	135	53	87	96	93	74	61	-17.3%	-4.3%
Pakistan	222	292	454	501	487	386	386	0.0%	3.1%
Papua New Guinea	384	242	128	141	137	109	109	0.0%	-6.8%
Philippines	308	140	202	223	216	172	172	0.0%	-3.2%
Taiwan	4	2	3	3	3	2	2	0.0%	-3.0%
Thailand	515	453	442	396	349	349	349	0.0%	-2.1%
Vietnam	1,950	3,119	4,400	4,400	4,400	4,400	4,400	0.0%	4.6%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Americas	330,973	319,986	537,229	547,821	544,136	548,467	557,376	1.6%	2.9%
Argentina	2,974	2,180	2,524	2,395	2,162	2,162	2,162	0.0%	-1.8%
Barbados	3	3	3	3	3	2	2	0.0%	-1.4%
Belize	0	0	10	11	11	9	9	0.0%	
Bolivia	423	445	675	745	724	574	574	0.0%	1.7%
Brazil	8,465	11,773	13,987	13,034	12,666	12,835	13,040	1.6%	2.4%
Canada	181,504	180,044	174,848	171,512	170,553	168,922	168,922	0.0%	-0.4%
Chile	160	151	218	240	234	185	185	0.0%	0.8%
Colombia	1,972	1,453	1,900	2,308	2,002	1,665	1,665	0.0%	-0.9%
Cuba	302	757	180	199	193	153	153	0.0%	-3.7%
Ecuador	4,566	5,180	7,206	8,273	8,273	8,273	8,273	0.0%	3.4%
Guatemala	145	93	120	133	129	102	102	0.0%	-1.9%
Mexico	28,260	12,882	11,691	10,816	8,130	7,219	6,428	-11.0%	-7.9%
Peru	906	1,078	1,240	1,187	1,225	1,225	1,225	0.0%	1.7%
Suriname	79	112	116	128	125	99	99	0.0%	1.3%
Trinidad and Tobago	851	803	830	728	243	243	243	0.0%	-6.7%
United States	23,517	23,019	25,181	35,230	35,213	41,990	51,485	22.6%	4.4%
Venezuela	76,848	80,012	296,501	300,878	302,250	302,809	302,809	0.0%	7.9%

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

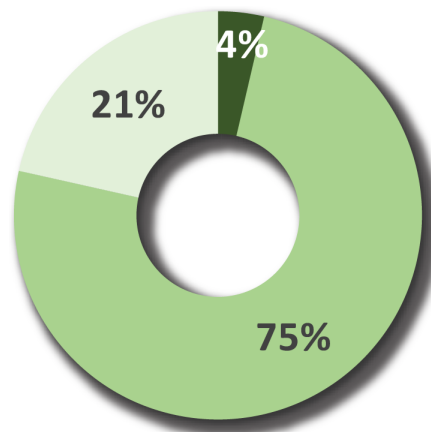
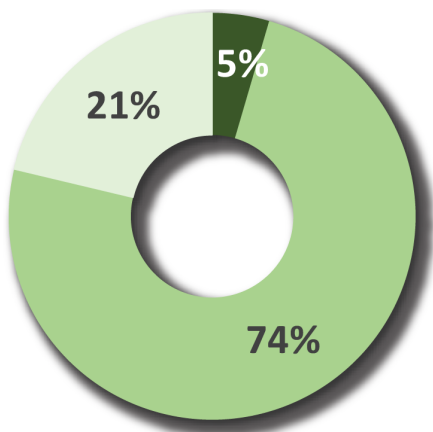
Cluster of Companies^(*)

2000

2018

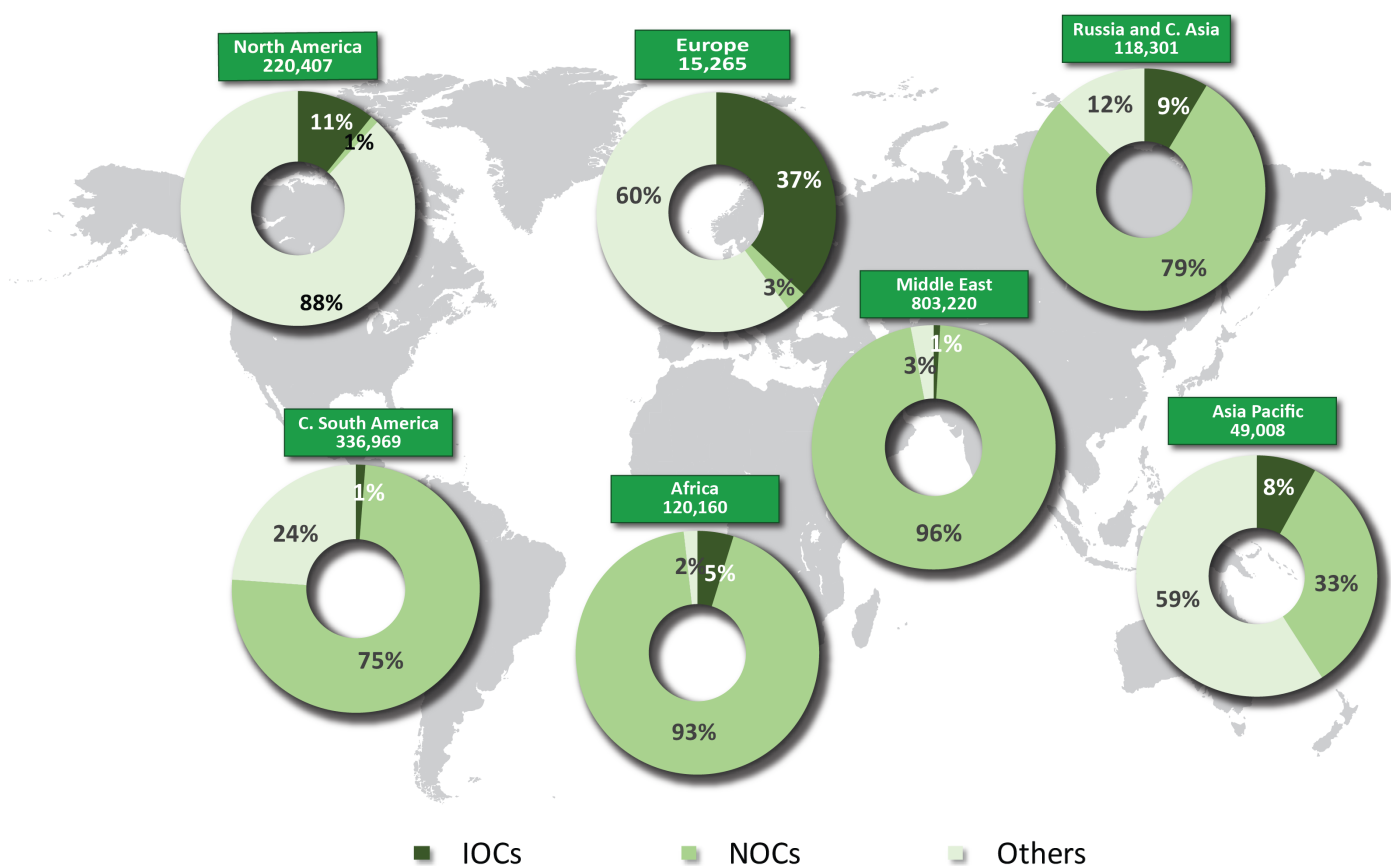
World: 1,233,734 million barrels as at 31st December

World: 1,663,331 million barrels as at 31st December



2018

(million barrels as at 31st December)



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

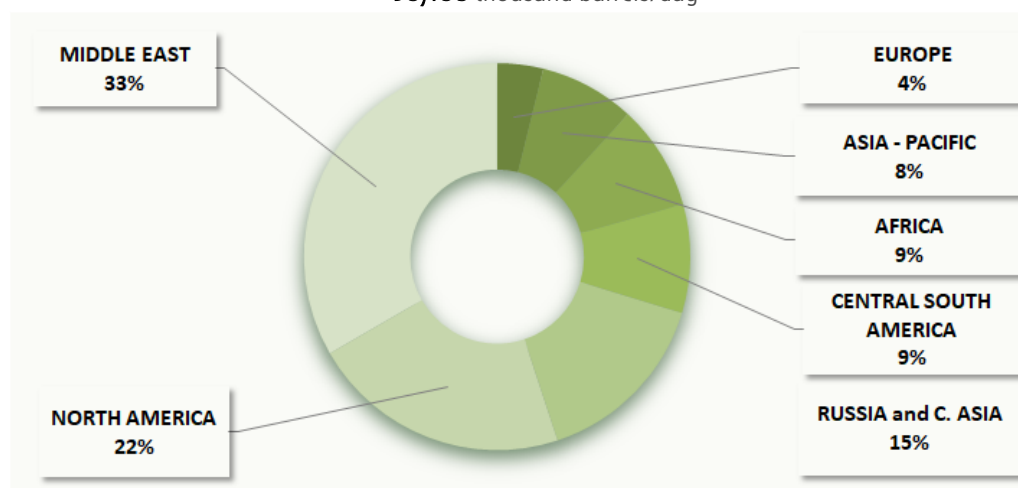
NOCs: ADNOC, Bahrain NOC, Bashneft, CNOOC, CNPC/PetroChina, CPC Taiwan, Dubai Petroleum, Ecopetrol, EGPC, Gazprom, INOC, Israel NOC, KazMunaiGaz, KNOC, KPC, Libyan NOC, Lukoil, MEDCO Energy, MOGE, Morocco NOC, Mubadala- Abu Dhabi, NIOC, NNPC, Novatek, Oil India, ONGC, Pakistan Oil Field, Pakistan Petroleum, 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.

Areas and Aggregates^(*)

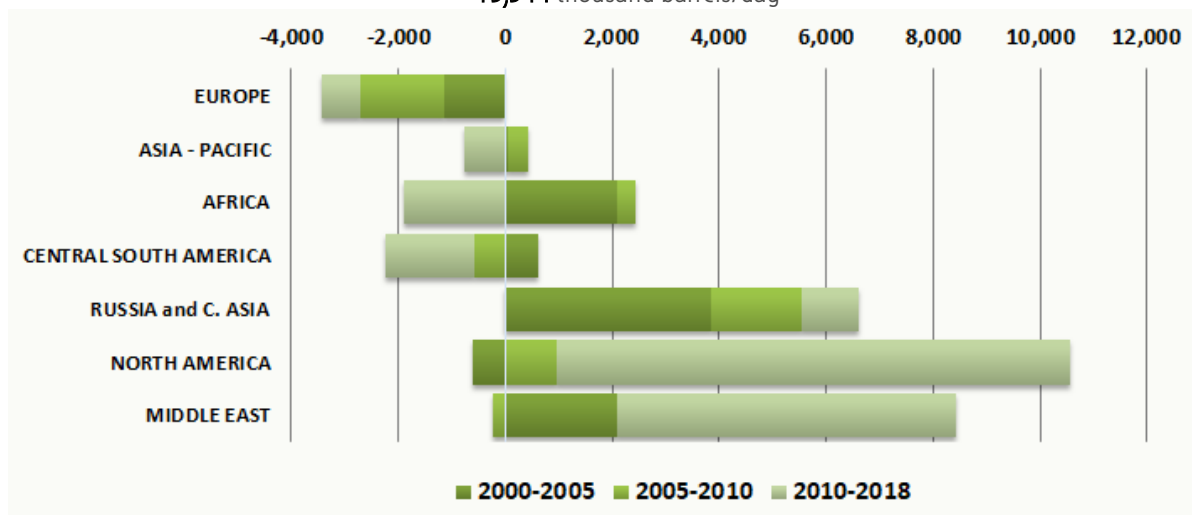
Crude and non conventional oil, natural gas liquids
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe	7,098	5,961	4,403	3,716	3,742	3,692	3,666	-0.7%	-3.6%
Russia and Central Asia	7,864	11,700	13,414	13,950	14,120	14,223	14,477	1.8%	3.4%
Middle East	23,510	25,588	25,366	29,831	31,674	31,278	31,720	1.4%	1.7%
Africa	7,814	9,906	10,243	8,337	7,810	8,206	8,366	2.0%	0.4%
Asia - Pacific	7,929	7,994	8,367	8,285	7,988	7,724	7,594	-1.7%	-0.2%
Americas	20,994	21,012	21,390	27,797	26,910	27,526	29,330	6.6%	1.9%
- North America	10,726	10,118	11,084	17,394	16,980	18,083	20,686	14.4%	3.7%
- Central South America	10,268	10,894	10,306	10,403	9,930	9,443	8,644	-8.5%	-1.0%
World	75,209	82,161	83,185	91,916	92,244	92,649	95,153	2.7%	1.3%
European Union	3,570	2,802	2,074	1,588	1,577	1,559	1,647	5.7%	-4.2%
MENA	27,206	29,962	29,531	32,611	34,422	34,370	34,977	1.8%	1.4%
OECD	21,859	20,177	18,859	23,943	23,399	24,196	26,646	10.1%	1.1%
NON OECD	53,350	61,984	64,326	67,973	68,845	68,453	68,507	0.1%	1.4%
OPEC	31,454	35,710	35,445	38,606	39,788	39,493	39,432	-0.2%	1.3%
NON OPEC	43,755	46,450	47,740	53,310	52,456	53,156	55,721	4.8%	1.4%

World Oil Production (2018) 95,153 thousand barrels/day



World Oil Production Growth (2000-2018) 19,944 thousand barrels/day



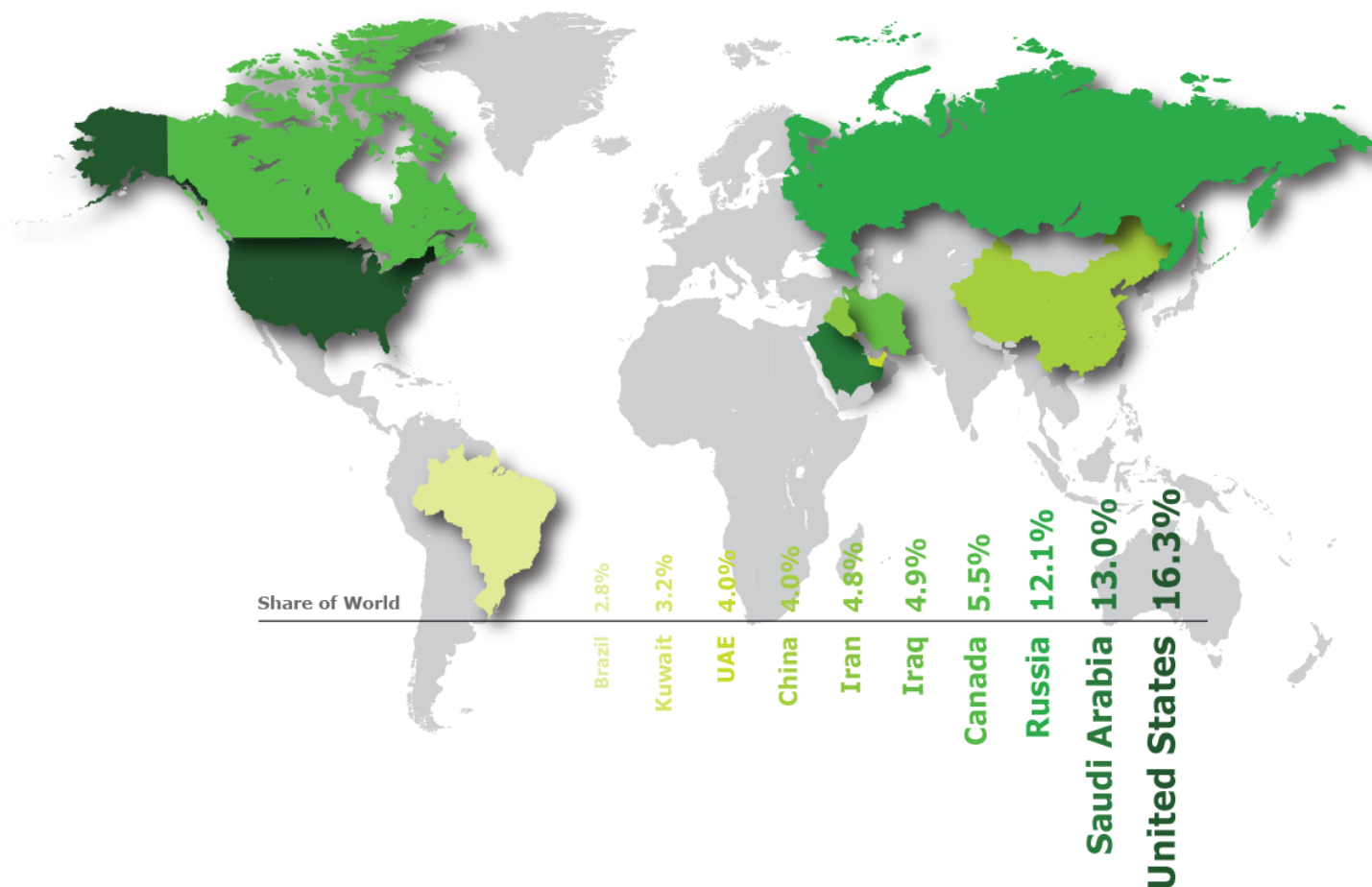
^(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

The World Top 10 Producers (*)

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

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
United States	8,005	7,077	7,752	13,008	12,509	13,268	15,481	16.7%	3.7%
Saudi Arabia	9,348	10,927	9,971	12,047	12,440	11,979	12,353	3.1%	1.6%
Russia	6,527	9,636	10,390	11,084	11,328	11,321	11,494	1.5%	3.2%
Canada	2,722	3,041	3,332	4,385	4,471	4,815	5,205	8.1%	3.7%
Iraq	2,582	1,833	2,430	4,078	4,503	4,563	4,659	2.1%	3.3%
Iran	3,760	4,225	4,215	3,593	4,422	4,762	4,589	-3.6%	1.1%
China	3,261	3,596	4,031	4,271	3,981	3,871	3,840	-0.8%	0.9%
United Arab Emirates	2,622	2,994	2,831	3,762	3,848	3,740	3,801	1.6%	2.1%
Kuwait	2,160	2,548	2,498	3,097	3,194	3,014	3,050	1.2%	1.9%
Brazil	1,268	1,702	2,144	2,531	2,613	2,739	2,698	-1.5%	4.3%
The World Top 10	42,254	47,580	49,593	61,857	63,309	64,072	67,171	4.8%	2.6%
Rest of the World	32,955	34,581	33,591	30,059	28,934	28,578	27,979	-2.1%	-0.9%
World	75,209	82,161	83,185	91,916	92,244	92,649	95,150	2.7%	1.3%

The World Top 10 (2018)



(*) Data source: IEA (2019) *Monthly Oil Data Services*. All rights reserved.

Countries^(*)

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

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe	7,098	5,961	4,403	3,716	3,742	3,692	3,666	-0.7%	-3.6%
Albania	6	8	13	23	19	16	14	-11.4%	5.3%
Austria	20	19	25	17	15	14	13	-6.5%	-2.2%
Belarus	37	36	34	33	33	32	31	-2.0%	-0.9%
Bulgaria	1	1	1	1	1	1	1	0.0%	3.9%
Croatia	28	21	18	14	15	15	15	-0.8%	-3.4%
Czech Republic	8	12	6	7	5	7	6	-18.0%	-1.2%
Denmark	363	388	255	156	141	137	114	-16.3%	-6.2%
Estonia	5	5	10	16	14	18	22	17.2%	8.8%
France	44	36	31	31	39	32	41	27.8%	-0.3%
Germany	86	113	76	67	68	67	70	4.9%	-1.1%
Greece	6	2	2	1	3	3	4	45.1%	-2.0%
Hungary	39	37	25	19	21	22	23	4.0%	-2.9%
Italy	78	124	108	131	96	97	100	3.6%	1.4%
Netherlands	49	47	36	36	24	24	23	-5.0%	-4.1%
Norway	3,331	2,962	2,138	1,948	1,995	1,969	1,850	-6.0%	-3.2%
Poland	15	28	19	28	22	24	31	32.6%	4.4%
Portugal	0	0	0	0	1	1	1	69.4%	
Romania	131	113	89	82	78	75	74	-2.1%	-3.2%
Serbia	20	13	18	21	19	19	17	-7.3%	-0.8%
Slovakia	1	7	5	5	4	6	3	-48.5%	5.4%
Spain	5	3	3	5	3	2	2	0.1%	-3.6%
Turkey	53	44	48	48	49	49	55	11.7%	0.2%
Ukraine	82	97	79	54	50	49	51	3.5%	-2.6%
United Kingdom	2,694	1,845	1,366	972	1,026	1,014	1,103	8.8%	-4.8%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Russia and Central Asia	7,864	11,700	13,414	13,950	14,120	14,223	14,477	1.8%	3.4%
Russia	6,527	9,636	10,390	11,084	11,328	11,321	11,494	1.5%	3.2%
Azerbaijan	282	449	1,042	849	829	783	793	1.4%	5.9%
Georgia	2	1	1	1	0	0	0	-9.5%	-9.3%
Kazakhstan	718	1,293	1,694	1,695	1,666	1,840	1,927	4.7%	5.6%
Kyrgyzstan	2	2	1	1	1	1	1	-9.5%	-2.8%
Turkmenistan	158	210	211	268	247	232	219	-5.6%	1.8%
Uzbekistan	175	108	75	52	48	46	43	-6.8%	-7.5%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Middle East	23,510	25,588	25,366	29,831	31,674	31,278	31,720	1.4%	1.7%
Bahrain	198	198	192	213	213	211	209	-1.2%	0.3%
Iran	3,760	4,225	4,215	3,593	4,422	4,762	4,589	-3.6%	1.1%
Iraq	2,582	1,833	2,430	4,078	4,503	4,563	4,659	2.1%	3.3%
Kuwait	2,160	2,548	2,498	3,097	3,194	3,014	3,050	1.2%	1.9%
Oman	958	777	871	989	1,012	978	986	0.8%	0.2%
Qatar	860	1,216	1,668	1,993	2,001	1,973	2,009	1.8%	4.8%
Saudi Arabia	9,348	10,927	9,971	12,047	12,440	11,979	12,353	3.1%	1.6%
Syria	573	448	385	27	25	25	24	-2.3%	-16.1%
United Arab Emirates	2,622	2,994	2,831	3,762	3,848	3,740	3,801	1.6%	2.1%
Yemen	450	421	306	32	16	33	40	21.3%	-12.6%

^(*) Data source: IEA (2019) *Monthly Oil Data Services*. All rights reserved.

Countries^(*)

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

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Africa	7,814	9,906	10,243	8,337	7,810	8,206	8,366	2.0%	0.4%
Algeria	1,436	1,931	1,720	1,590	1,604	1,530	1,524	-0.4%	0.3%
Angola	745	1,245	1,800	1,805	1,762	1,718	1,570	-8.6%	4.2%
Cameroon	114	89	64	93	92	80	74	-6.8%	-2.3%
Chad	0	170	120	129	120	121	117	-3.1%	
Congo	265	247	313	234	217	266	331	24.7%	1.2%
Côte d'Ivoire	7	40	39	27	42	34	30	-10.9%	8.5%
Dem. Rep. Congo	23	25	25	22	21	20	19	-4.9%	-1.1%
Egypt	711	649	700	697	665	640	650	1.6%	-0.5%
Equatorial Guinea	144	380	311	276	231	212	208	-1.8%	2.0%
Gabon	276	270	249	230	227	200	190	-5.2%	-2.0%
Ghana	7	6	7	106	92	167	190	13.7%	20.1%
Libya	1,471	1,721	1,661	437	426	877	1,029	17.3%	-2.0%
Mauritania	0	0	9	5	4	3	3	-0.1%	
Morocco	0	1	0	0	0	0	0	0.0%	-1.3%
Niger	0	0	0	15	17	19	19	3.3%	
Nigeria	2,160	2,546	2,535	2,258	1,936	1,995	2,062	3.4%	-0.3%
South Africa	199	208	141	106	103	102	93	-8.0%	-4.1%
Sudan	177	305	465	253	198	179	202	13.1%	0.7%
Tunisia	78	73	83	55	52	45	55	21.2%	-1.9%
	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Asia - Pacific	7,929	7,994	8,367	8,285	7,988	7,724	7,594	-1.7%	-0.2%
Australia	802	545	549	371	345	315	342	8.6%	-4.6%
Bangladesh	4	6	5	4	4	4	3	-4.9%	-1.0%
Brunei	195	206	169	127	121	113	111	-1.5%	-3.1%
China	3,261	3,596	4,031	4,271	3,981	3,871	3,840	-0.8%	0.9%
East Timor	0	100	88	60	49	40	33	-18.2%	
India	770	778	874	868	848	857	840	-2.0%	0.5%
Indonesia	1,447	1,086	991	817	866	836	803	-4.0%	-3.2%
Japan	17	18	18	12	11	11	11	-2.4%	-2.6%
Malaysia	711	778	727	700	737	718	715	-0.4%	0.0%
Mongolia	0	1	6	24	23	22	21	-4.9%	30.3%
Myanmar	12	22	19	11	12	12	11	-4.9%	-0.4%
New Zealand	45	37	60	48	40	37	30	-19.2%	-2.2%
Pakistan	58	66	66	87	85	82	80	-3.4%	1.8%
Papua New Guinea	64	54	32	58	56	50	45	-11.6%	-2.0%
Philippines	1	23	20	16	15	13	13	0.3%	15.9%
South Korea	13	10	21	22	24	25	29	13.6%	4.5%
Taiwan	1	1	0	0	0	0	0		-100.0%
Thailand	194	297	383	452	462	439	420	-4.5%	4.4%
Vietnam	333	372	308	338	309	277	247	-10.9%	-1.7%
	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Americas	20,994	21,012	21,390	27,797	26,910	27,526	29,330	6.6%	1.9%
Argentina	863	831	712	629	602	570	580	1.7%	-2.2%
Barbados	1	1	1	1	1	1	1	-3.9%	-2.7%
Bolivia	39	58	51	73	70	64	62	-4.1%	2.6%
Brazil	1,268	1,702	2,144	2,531	2,613	2,739	2,698	-1.5%	4.3%
Canada	2,722	3,041	3,332	4,385	4,471	4,815	5,205	8.1%	3.7%
Chile	9	8	13	6	5	6	9	45.9%	0.0%
Colombia	688	528	788	1,014	888	861	872	1.4%	1.3%
Cuba	51	54	56	55	51	47	44	-6.7%	-0.8%
Ecuador	404	534	468	541	547	531	523	-1.6%	1.4%
Guatemala	21	18	12	10	9	8	7	-9.5%	-5.7%
Mexico	3,452	3,768	2,961	2,602	2,467	2,233	2,077	-7.0%	-2.8%
Peru	104	116	156	150	134	133	133	-0.5%	1.4%
Suriname	10	12	21	19	18	18	17	-4.9%	2.9%
Trinidad and Tobago	138	171	148	109	97	99	87	-11.6%	-2.5%
United States	8,005	7,077	7,752	13,008	12,509	13,268	15,481	16.7%	3.7%
Venezuela	3,220	3,093	2,775	2,665	2,429	2,133	1,534	-28.1%	-4.0%

(*) Data source: IEA (2019) *Monthly Oil Data Services*. All rights reserved.

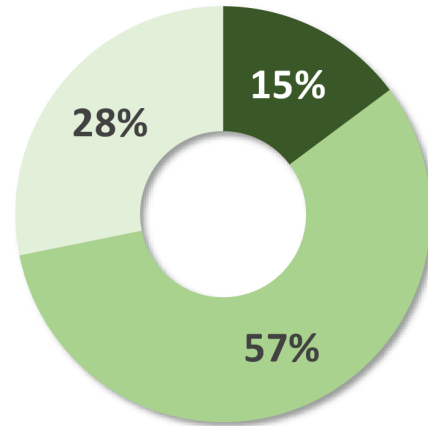
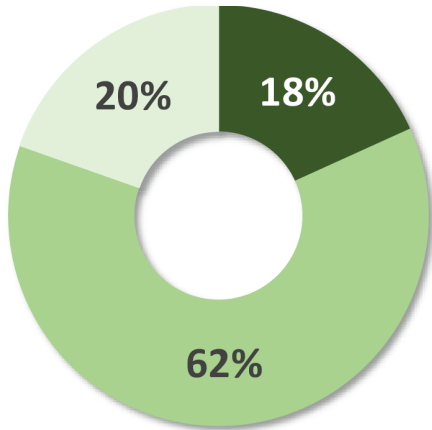
Cluster of Companies^(*)

2000

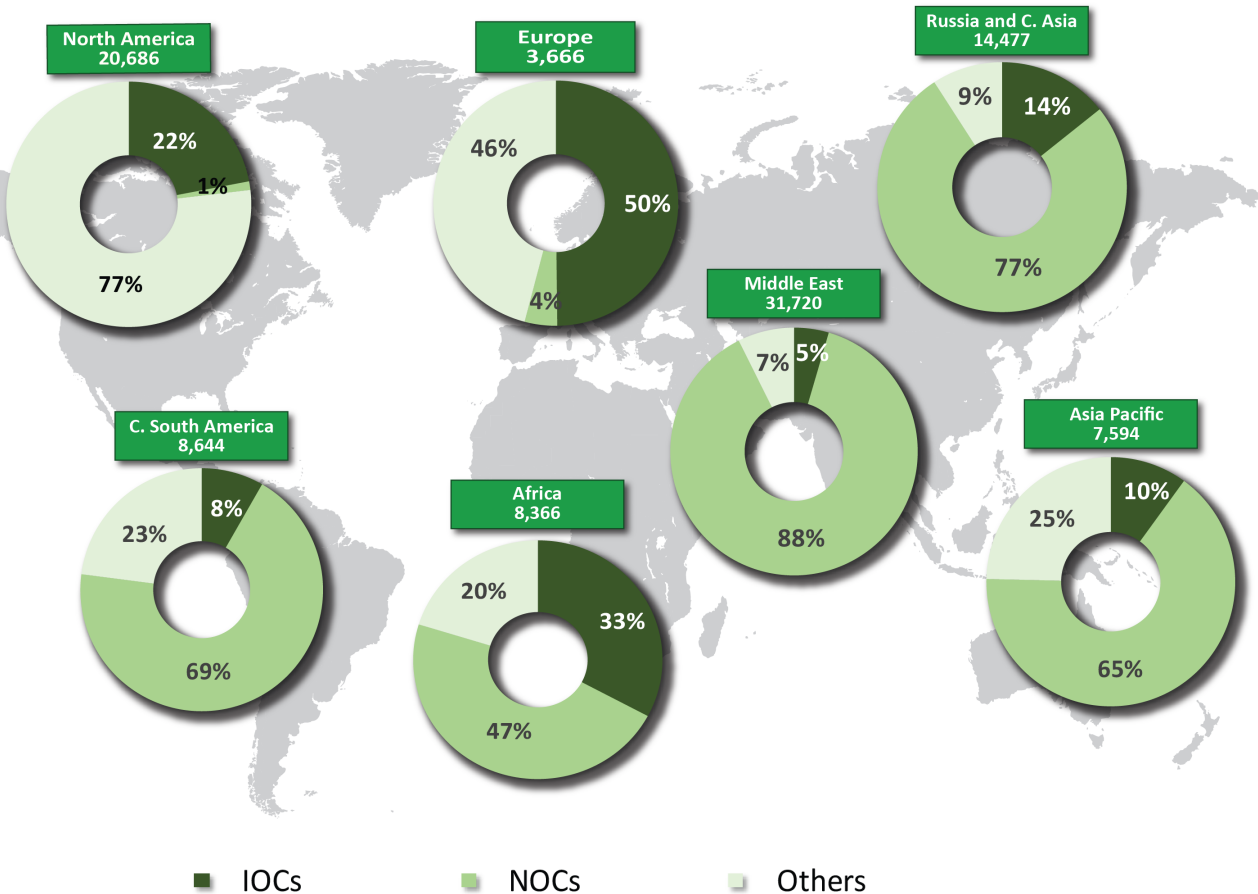
2018

World: 75,209 thousand barrels/day

World: 95,153 thousand barrels/day



2018
(thousand barrels/day)



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

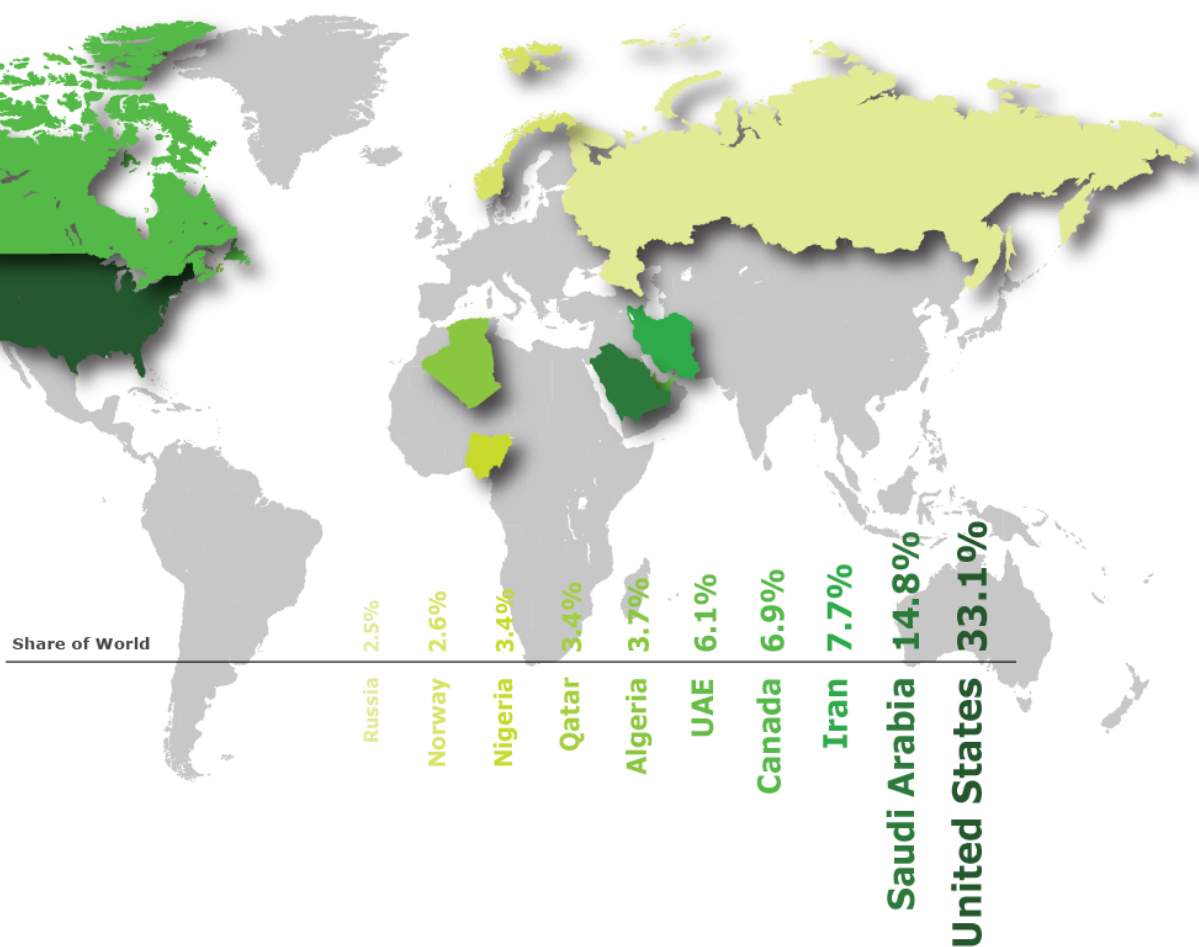
NOCs: ADNOC, Bahrain NOC, Bashneft, CNOOC, CNPC/PetroChina, CPC Taiwan, Dubai Petroleum, Ecopetrol, EGPC, Gazprom, INOC, Israel NOC, KazMunaiGaz, KNOC, KPC, Libyan NOC, Lukoil, MEDCO Energy, MOGE, Morocco NOC, Mubadala- Abu Dhabi, NIOC, NNPC, Novatek, Oil India, ONGC, Pakistan Oil Field, Pakistan Petroleum,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

The World Top 10 Natural Gas Liquids Producers^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
United States	1,911	1,717	2,074	3,342	3,509	3,783	4,349	15.0%	4.7%
Saudi Arabia	1,011	1,493	1,710	1,805	1,941	1,938	1,944	0.3%	3.7%
Iran	75	346	510	747	870	950	1,010	6.3%	15.5%
Canada	706	668	608	708	792	839	901	7.5%	1.4%
United Arab Emirates	384	536	520	816	798	807	803	-0.5%	4.2%
Algeria	630	603	515	481	494	483	481	-0.3%	-1.5%
Qatar	173	258	339	396	399	436	446	2.3%	5.4%
Nigeria	121	141	464	471	454	453	444	-1.9%	7.5%
Norway	124	272	267	338	347	351	335	-4.6%	5.7%
Russia	50	145	251	365	364	341	333	-2.5%	11.1%
The World Top 10	5,185	6,180	7,257	9,468	9,968	10,380	11,047	6.4%	4.3%
Rest of the world	1,878	2,085	2,332	2,152	2,164	2,172	2,094	-3.6%	0.6%
World	7,063	8,266	9,590	11,620	12,132	12,553	13,141	4.7%	3.5%

The World Top 10 (2018)



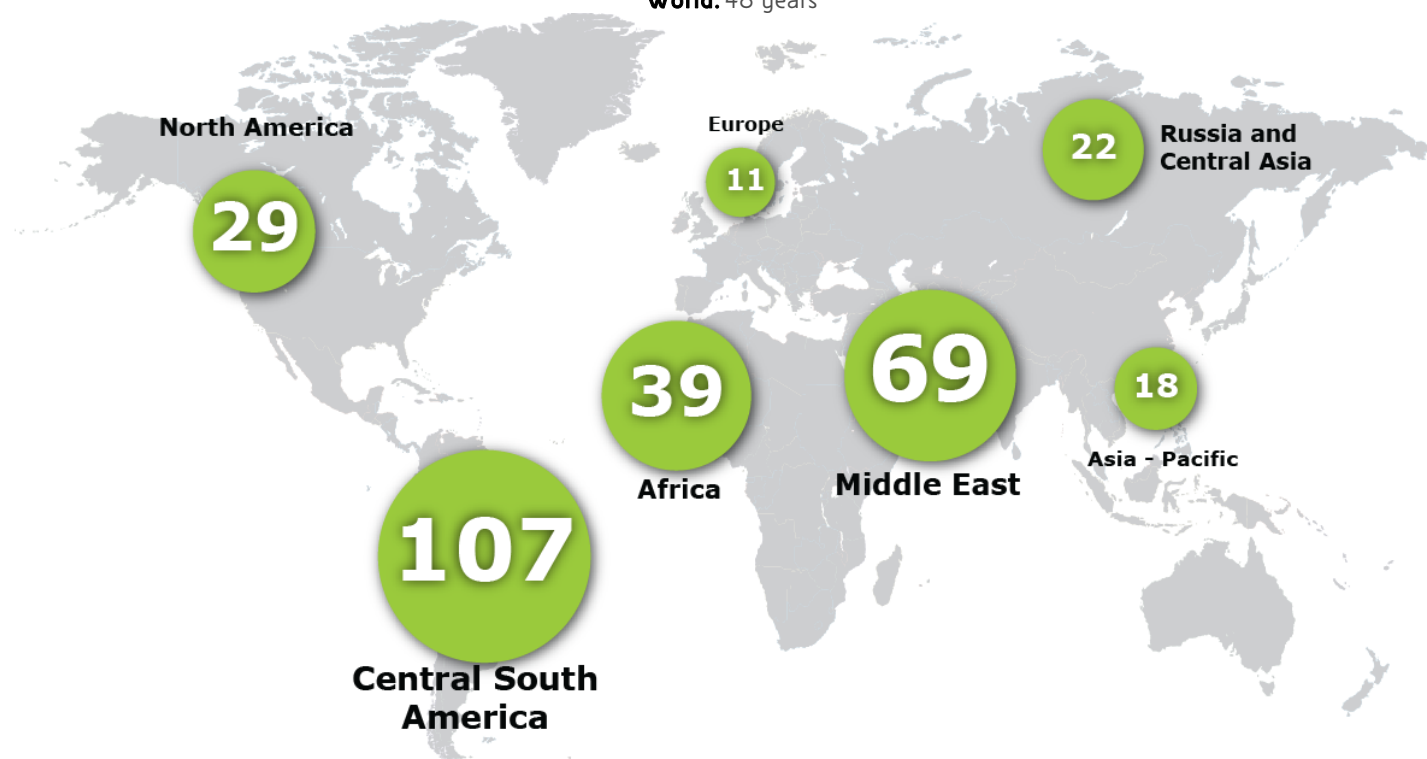
^(*) Data source: IEA (2019) *Monthly Oil Data Services*. All rights reserved.

Areas and Aggregates^(*) (years)

	2000	2005	2010	2015	2016	2017	2018
Europe	8	8	9	11	11	11	11
Russia and Central Asia	20	18	20	23	23	23	22
Middle East	81	80	86	74	70	70	69
Africa	33	31	33	40	43	40	39
Asia - Pacific	13	15	16	17	17	17	18
Americas	43	42	69	54	55	55	52
- North America	52	55	49	33	33	32	29
- Central South America	34	29	90	90	93	98	107
World	45	44	53	49	49	49	48
European Union	7	7	8	10	10	9	9
MENA	75	74	80	73	69	69	68
OECD	32	32	33	27	27	27	25
NON OECD	50	48	59	57	57	57	57
OPEC	74	71	93	86	84	84	84
NON OPEC	24	23	24	23	23	23	22

Reserves/Production Ratio (2018)

World: 48 years

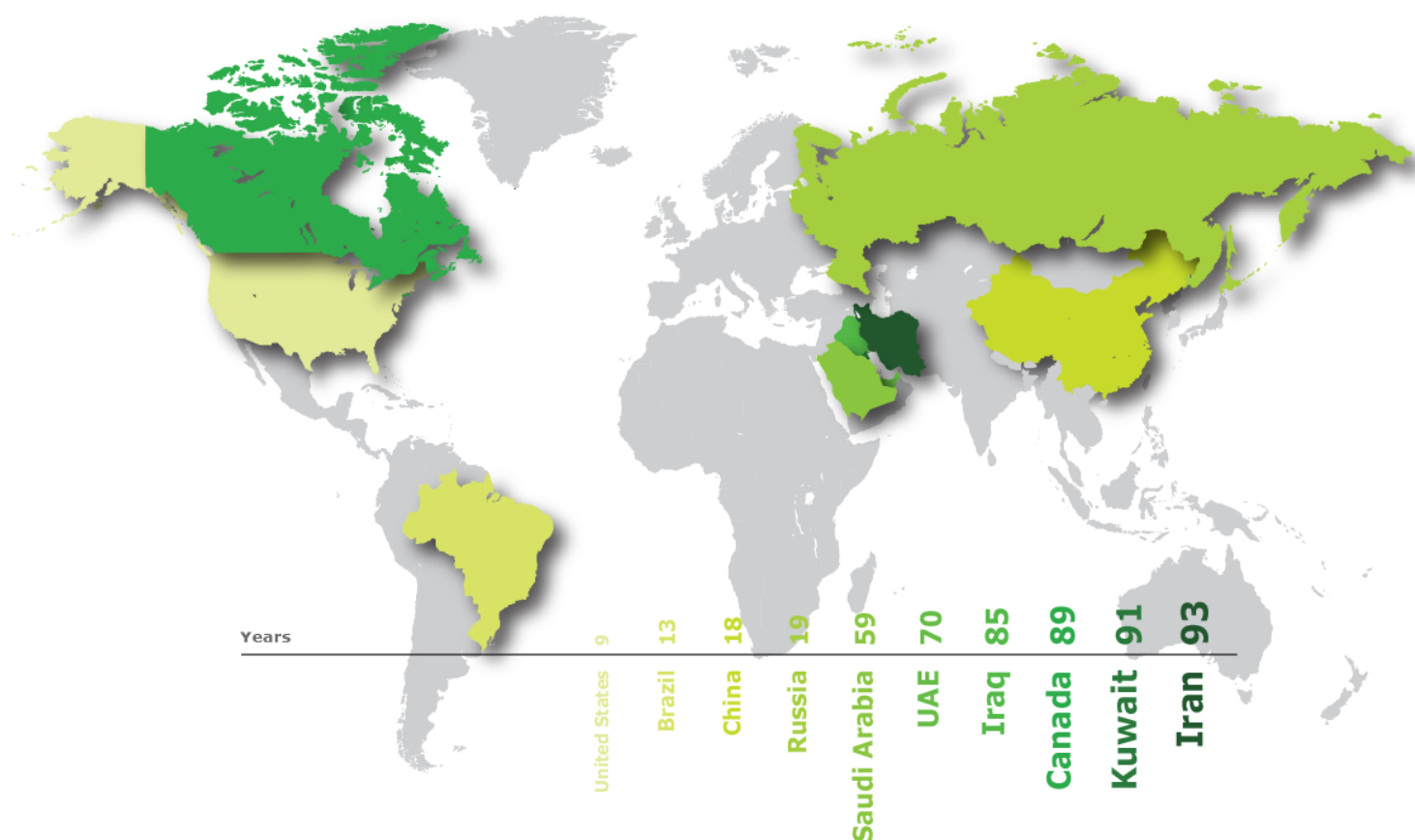


^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other official data sources. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018
Iran	73	88	98	121	97	90	93
Kuwait	122	109	111	90	87	92	91
Canada	183	162	144	107	105	96	89
Iraq	119	172	161	96	91	88	85
United Arab Emirates	102	89	95	71	70	72	70
Saudi Arabia	77	66	73	61	59	61	59
Russia	20	17	16	20	19	19	19
China	13	14	16	16	18	18	18
Brazil	18	19	18	14	13	13	13
United States	8	9	9	7	8	9	9

The World Top 10 (2018)



^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Countries^(*)

(years)

	2000	2005	2010	2015	2016	2017	2018
Europe	8	8	9	11	11	11	11
Albania	84	68	63	38	44	41	47
Austria	13	9	8	13	14	12	13
Belarus	16	15	23	26	26	21	21
Bulgaria	87	43	43	43	43	43	43
Croatia	9	9	16	23	21	16	16
Czech Republic	6	4	10	10	12	7	8
Denmark	8	9	10	9	9	9	11
France	10	12	13	14	11	11	8
Germany	13	9	14	18	17	14	13
Greece	5	11	17	35	13	12	8
Hungary	8	8	4	6	6	4	4
Italy (**)	20	10	14	12	15	16	15
Netherlands	6	6	11	12	18	14	14
Norway	9	9	9	10	10	11	13
Poland	23	9	20	15	19	14	10
Romania	24	11	18	20	21	22	22
Serbia	11	16	18	16	18	14	15
Slovakia	22	3	7	9	10	5	10
Spain	13	131	186	135	223	211	211
Turkey	16	19	22	24	23	18	16
Ukraine	14	11	20	32	33	27	26
United Kingdom	5	6	6	7	7	7	6

	2000	2005	2010	2015	2016	2017	2018
Russia and Central Asia	20	18	20	23	23	23	22
Russia	20	17	16	20	19	19	19
Azerbaijan	11	43	18	23	23	24	24
Georgia	47	73	165	301	324	284	314
Kazakhstan	21	19	49	48	49	45	43
Kyrgyzstan	78	51	175	144	155	136	150
Tajikistan	88	100	237				
Turkmenistan	9	7	8	6	7	7	8
Uzbekistan	9	15	22	31	34	35	38

(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other official data sources. All rights reserved.

(**) The original data are from Italian Ministry for Economic Development and IEA (2019) *Monthly Oil Data Services* © OECD/International Energy Agency, 2019. All rights reserved.

Countries (*)
(years)

	2000	2005	2010	2015	2016	2017	2018
Middle East	81	80	86	74	70	70	69
Bahrain	2	2	3	3	3	2	2
Iran	73	88	98	121	97	90	93
Iraq	119	172	161	96	91	88	85
Kuwait	122	109	111	90	87	92	91
Oman	17	20	17	15	15	15	15
Qatar	42	57	42	35	35	35	34
Saudi Arabia	77	66	73	61	59	61	59
Syria	11	18	18	257	272	278	285
United Arab Emirates	102	89	95	71	70	72	70
Yemen	15	19	27	258	505	249	205

	2000	2005	2010	2015	2016	2017	2018
Africa	33	31	33	40	43	40	39
Algeria	22	17	19	21	21	22	22
Angola	22	20	14	14	15	13	14
Cameroon	10	12	12	9	9	8	9
Chad		24	34	32	34	34	35
Congo	17	17	14	19	20	16	13
Côte d'Ivoire	42	7	10	16	10	10	11
Dem. Rep. Congo	24	21	29	36	37	31	32
Egypt	14	16	18	14	14	14	14
Equatorial Guinea	15	13	15	11	13	14	15
Gabon	24	22	22	24	24	27	29
Ghana	7	8	271	18	20	11	10
Libya	67	66	78	303	311	151	129
Mauritania			43	95	102	99	99
Morocco	21	4	18	20	19	15	15
Niger				0	0	0	0
Nigeria	37	39	40	45	53	51	49
Sudan	4	5	29	16	21	23	20
Tunisia	15	21	14	21	22	26	21

(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Countries (*)
(years)

	2000	2005	2010	2015	2016	2017	2018
Asia - Pacific	13	15	16	17	17	17	18
Australia	17	19	19	29	32	35	32
Bangladesh	42	13	22	31	32	27	28
Brunei	17	15	18	24	25	27	27
China	13	14	16	16	18	18	18
India	19	21	15	14	14	14	14
Indonesia	10	11	11	11	10	11	11
Japan	10	9	10	16	17	13	14
Malaysia	13	19	22	23	22	19	19
Mongolia	224	74	7	29	30	32	33
Myanmar	12	6	11	20	18	14	15
New Zealand	8	4	4	5	6	5	6
Pakistan	11	12	19	16	16	13	13
Papua New Guinea	16	12	11	7	7	6	7
Philippines		17	28	39	41	36	35
Taiwan	12	12					
Thailand	7	4	3	2	2	2	2
Vietnam	16	23	39	36	39	43	49

	2000	2005	2010	2015	2016	2017	2018
Americas	43	42	69	54	55	55	52
Argentina	9	7	10	10	10	10	10
Barbados	9	8	8	14	15	11	11
Bolivia	30	21	36	28	29	24	26
Brazil	18	19	18	14	13	13	13
Canada	183	162	144	107	105	96	89
Chile	48	54	45	111	124	82	56
Colombia	8	8	7	6	6	5	5
Cuba	16	38	9	10	10	9	9
Ecuador	31	27	42	42	41	43	43
Guatemala	19	14	27	38	40	35	39
Mexico	22	9	11	11	9	9	8
Peru	24	25	22	22	25	25	25
Suriname	22	26	15	18	19	15	16
Trinidad and Tobago	17	13	15	18	7	7	8
United States	8	9	9	7	8	9	9
Venezuela	65	71	293	309	341	389	541

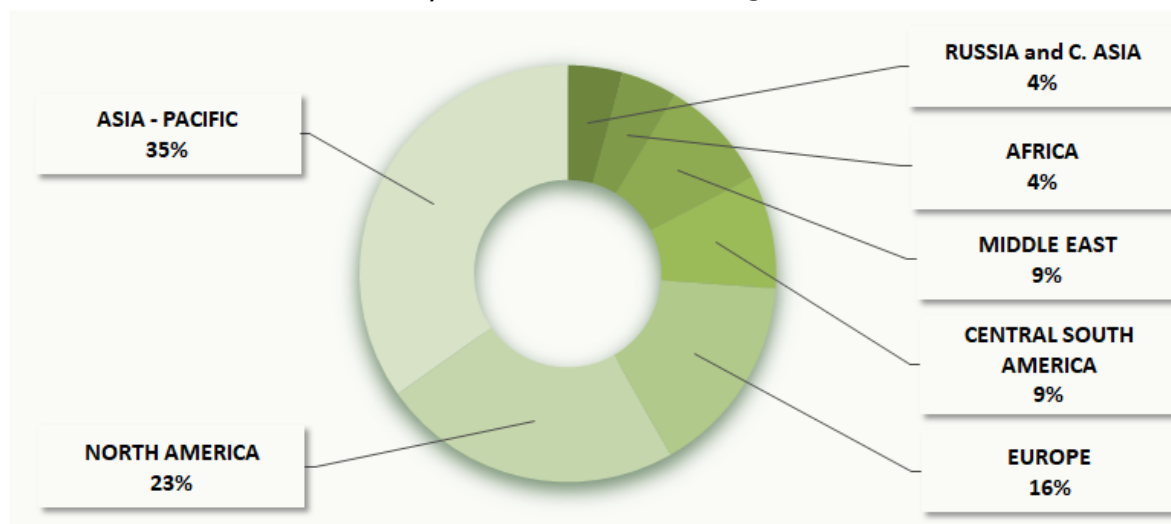
(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Areas and Aggregates^(*) (thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe	16,475	17,137	15,948	14,952	15,177	15,516	15,542	0.2%	-0.3%
Russia and Central Asia	3,243	3,303	3,375	4,137	4,050	4,064	4,231	4.1%	1.5%
Middle East	5,011	6,206	7,529	8,747	8,714	8,729	8,666	-0.7%	3.1%
Africa	2,466	2,928	3,548	4,208	4,255	4,279	4,314	0.8%	3.2%
Asia - Pacific	20,889	24,177	27,293	31,957	32,933	33,850	34,574	2.1%	2.8%
Americas	29,060	30,892	30,395	31,309	31,315	31,511	32,013	1.6%	0.5%
- North America	22,007	23,494	21,856	22,257	22,470	22,718	23,259	2.4%	0.3%
- Central South America	7,053	7,398	8,539	9,052	8,844	8,793	8,753	-0.5%	1.2%
World	77,144	84,642	88,088	95,309	96,444	97,950	99,340	1.4%	1.4%
European Union	14,749	15,256	14,064	12,999	13,124	13,406	13,393	-0.1%	-0.5%
MENA	6,265	7,663	9,291	10,686	10,633	10,622	10,517	-1.0%	2.9%
OECD	48,462	50,394	46,920	46,523	46,972	47,418	47,844	0.9%	-0.1%
NON OECD	28,682	34,249	41,167	48,786	49,472	50,531	51,496	1.9%	3.3%
OPEC	5,760	7,225	8,974	10,440	10,289	10,240	10,166	-0.7%	3.2%
NON OPEC	71,384	77,417	79,113	84,870	86,155	87,710	89,175	1.7%	1.2%

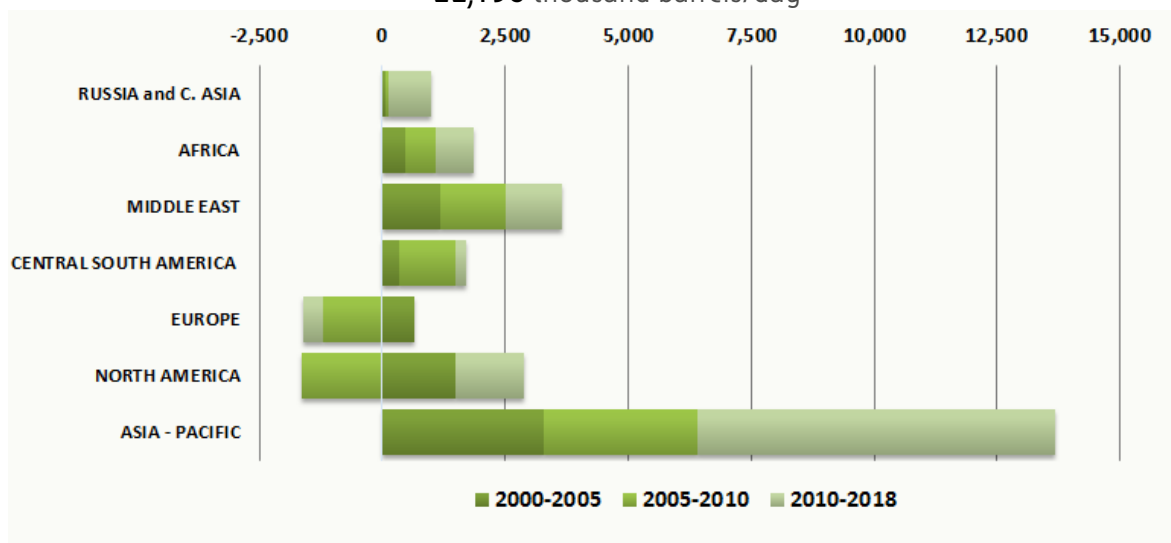
World Oil Consumption (2018)

99,340 thousand barrels/day



World Oil Consumption Growth (2000-2018)

22,196 thousand barrels/day



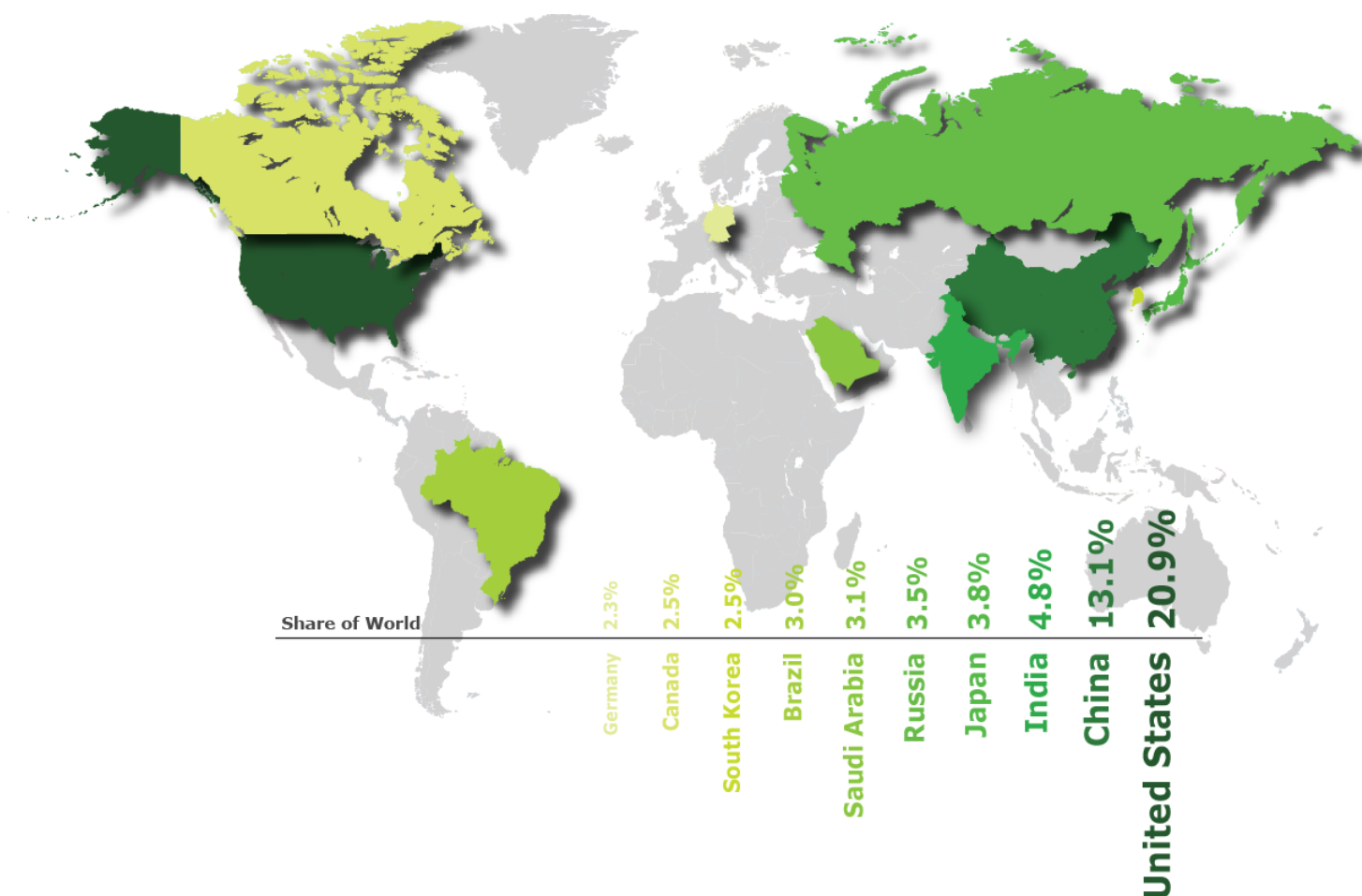
^(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

The World Top 10 Consumers^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
United States	19,999	21,168	19,476	19,840	19,999	20,273	20,811	2.7%	0.2%
China	4,651	6,772	9,031	11,566	11,988	12,576	13,025	3.6%	5.9%
India	2,336	2,632	3,297	4,241	4,442	4,568	4,782	4.7%	4.1%
Japan	5,361	5,164	4,340	4,142	4,010	3,894	3,782	-2.9%	-1.9%
Russia	2,678	2,732	2,794	3,436	3,328	3,322	3,466	4.3%	1.4%
Saudi Arabia	1,571	1,941	2,674	3,415	3,301	3,274	3,099	-5.3%	3.8%
Brazil	2,135	2,173	2,774	3,177	2,985	3,002	3,003	0.0%	1.9%
South Korea	2,135	2,191	2,269	2,473	2,605	2,584	2,522	-2.4%	0.9%
Canada	2,008	2,326	2,380	2,417	2,471	2,445	2,449	0.1%	1.1%
Germany	2,767	2,624	2,467	2,368	2,383	2,460	2,327	-5.4%	-1.0%
The World Top 10	45,640	49,723	51,502	57,075	57,512	58,398	59,266	1.5%	1.5%
Rest of the World	31,504	34,920	36,586	38,234	38,933	39,552	40,074	1.3%	1.3%
World	77,144	84,642	88,088	95,309	96,444	97,950	99,340	1.4%	1.4%

The World Top 10 (2018)



^(*) Data source: IEA (2019) *Monthly Oil Data Services*. All rights reserved.

Countries(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe	16,475	17,137	15,948	14,952	15,177	15,516	15,542	0.2%	-0.3%
Albania	21	29	26	26	28	29	30	3.2%	2.0%
Austria	250	299	278	263	267	268	273	2.0%	0.5%
Belarus	119	148	151	138	136	139	143	3.2%	1.0%
Belgium	610	665	659	650	659	649	652	0.6%	0.4%
Bosnia Herzegovina	23	23	34	31	35	35	36	2.6%	2.6%
Bulgaria	86	99	84	95	96	99	101	2.9%	0.9%
Croatia	82	94	78	69	68	70	72	2.2%	-0.8%
Cyprus	50	57	57	48	52	53	55	3.2%	0.6%
Czech Republic	170	213	202	196	180	214	215	0.7%	1.3%
Denmark	210	183	167	154	158	159	160	1.1%	-1.5%
Estonia	21	26	26	28	29	28	29	1.3%	1.7%
Finland	213	221	214	211	214	217	219	0.9%	0.2%
France	2,001	1,990	1,818	1,691	1,652	1,705	1,711	0.3%	-0.9%
Germany	2,767	2,624	2,467	2,368	2,383	2,460	2,327	-5.4%	-1.0%
Gibraltar	53	79	83	74	76	76	75	-1.7%	2.0%
Greece	399	424	370	295	296	304	300	-1.2%	-1.6%
Hungary	143	155	149	155	156	168	176	5.1%	1.2%
Iceland	16	17	15	17	19	21	22	5.4%	1.8%
Ireland	173	198	166	146	152	154	158	2.9%	-0.5%
Italy	1,854	1,781	1,544	1,274	1,237	1,236	1,271	2.8%	-2.1%
Kosovo	7	10	11	14	14	14	15	3.2%	4.2%
Latvia	28	36	37	37	38	45	41	-7.1%	2.2%
Lithuania	59	59	56	57	62	63	65	2.8%	0.6%
Luxembourg	48	65	60	56	56	60	63	5.1%	1.5%
Macedonia	19	18	18	20	22	22	22	1.3%	1.0%
Malta	29	32	47	43	45	48	50	4.5%	3.2%
Moldova	13	14	17	18	19	20	20	3.0%	2.4%
Montenegro	2	6	7	6	7	7	7	3.0%	7.5%
Netherlands	929	1,086	1,026	962	967	955	931	-2.5%	0.0%
Norway	209	222	215	209	206	205	242	17.7%	0.8%
Poland	411	471	568	541	582	650	678	4.4%	2.8%
Portugal	333	337	274	237	240	247	241	-2.7%	-1.8%
Romania	206	224	176	194	204	214	213	-0.5%	0.2%
Serbia	29	83	81	71	77	78	81	3.2%	5.8%
Slovakia	67	78	84	79	82	86	87	1.2%	1.5%
Slovenia	50	54	55	49	52	52	55	4.7%	0.5%
Spain	1,433	1,607	1,441	1,247	1,290	1,296	1,334	2.9%	-0.4%
Sweden	362	360	335	298	322	323	314	-2.9%	-0.8%
Switzerland	270	267	261	227	228	224	216	-3.4%	-1.2%
Turkey	667	659	675	881	942	990	983	-0.7%	2.2%
Ukraine	278	307	293	220	244	249	256	2.8%	-0.5%
United Kingdom	1,765	1,819	1,624	1,556	1,583	1,584	1,600	1.0%	-0.5%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Russia and Central Asia	3,243	3,303	3,375	4,137	4,050	4,064	4,231	4.1%	1.5%
Russia	2,678	2,732	2,794	3,436	3,328	3,322	3,466	4.3%	1.4%
Armenia	6	9	9	7	7	8	8	4.8%	1.4%
Azerbaijan	106	104	74	96	96	96	97	1.0%	-0.5%
Georgia	18	17	22	26	32	34	35	4.4%	3.8%
Kazakhstan	206	198	233	308	326	337	347	2.9%	2.9%
Kyrgyzstan	15	14	27	36	39	36	36	0.0%	4.8%
Tajikistan	3	6	11	22	22	23	24	4.0%	12.2%
Turkmenistan	104	120	126	151	149	157	165	4.9%	2.6%
Uzbekistan	106	103	80	55	50	52	55	4.0%	-3.6%

(*) Data source: IEA (2019) *Monthly Oil Data Services*. All rights reserved.

Countries(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Middle East	5,011	6,206	7,529	8,747	8,714	8,729	8,666	-0.7%	3.1%
Bahrain	34	64	62	64	63	65	66	2.6%	3.7%
Iran	1,419	1,723	1,848	2,002	1,962	2,020	2,075	2.7%	2.1%
Iraq	471	575	659	800	857	871	927	6.4%	3.8%
Israel	252	233	251	218	222	242	237	-2.1%	-0.3%
Jordan	101	112	102	134	114	116	118	1.8%	0.9%
Kuwait	216	327	450	466	474	470	464	-1.3%	4.3%
Lebanon	93	97	120	151	154	156	157	0.8%	2.9%
Oman	64	72	126	185	183	182	185	1.5%	6.1%
Qatar	48	89	172	227	222	223	202	-9.5%	8.3%
Saudi Arabia	1,571	1,941	2,674	3,415	3,301	3,274	3,099	-5.3%	3.8%
Syria	228	324	303	135	140	156	146	-6.7%	-2.5%
United Arab Emirates	416	511	616	840	919	855	893	4.5%	4.3%
Yemen	98	139	147	110	103	98	96	-2.1%	-0.1%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Africa	2,466	2,928	3,548	4,208	4,255	4,279	4,314	0.8%	3.2%
Algeria	240	271	351	481	429	426	430	0.9%	3.3%
Angola	37	42	103	140	135	132	132	-0.1%	7.3%
Benin	10	19	35	36	37	39	41	4.8%	7.9%
Cameroon	21	22	34	39	40	41	42	3.0%	3.8%
Congo	4	6	12	17	16	17	17	3.1%	8.2%
Côte d'Ivoire	27	24	24	45	49	52	55	5.9%	4.1%
Dem. Rep. Congo	8	13	16	21	16	16	16	1.6%	3.9%
Egypt	539	638	763	858	877	840	778	-7.4%	2.1%
Ethiopia	23	33	45	70	75	81	86	6.0%	7.6%
Gabon	14	15	19	22	22	22	22	1.6%	2.8%
Ghana	39	49	72	87	88	94	99	5.0%	5.3%
Kenya	61	62	84	104	114	118	124	4.8%	4.0%
Libya	244	264	304	225	237	242	250	3.0%	0.1%
Morocco	147	193	257	274	277	286	294	2.6%	3.9%
Mozambique	10	11	16	24	39	40	41	2.8%	8.3%
Nigeria	224	300	274	412	428	459	498	8.6%	4.5%
Senegal	31	36	38	47	49	51	54	5.6%	3.1%
South Africa	431	496	585	633	640	637	642	0.7%	2.2%
Sudan	43	77	112	131	154	155	152	-1.9%	7.3%
Tanzania	18	30	35	68	62	65	68	4.6%	7.8%
Tunisia	84	91	88	102	97	99	101	1.9%	1.0%
Zambia	11	14	13	22	22	23	23	3.1%	4.4%
Zimbabwe	23	14	13	27	24	27	27	-0.5%	0.8%
Others Africa	178	207	254	322	328	318	324	1.8%	3.4%

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Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Asia - Pacific	20,889	24,177	27,293	31,957	32,933	33,850	34,574	2.1%	2.8%
Australia	872	962	905	1,107	1,106	1,175	1,214	3.3%	1.9%
Bangladesh	66	80	80	114	112	118	125	5.9%	3.6%
Brunei	13	14	16	17	15	15	16	1.8%	1.2%
China	4,651	6,772	9,031	11,566	11,988	12,576	13,025	3.6%	5.9%
Hong Kong	250	290	416	371	386	439	449	2.2%	3.3%
India	2,336	2,632	3,297	4,241	4,442	4,568	4,782	4.7%	4.1%
Indonesia	1,152	1,342	1,425	1,618	1,634	1,683	1,793	6.5%	2.5%
Japan	5,361	5,164	4,340	4,142	4,010	3,894	3,782	-2.9%	-1.9%
Malaysia	445	509	586	688	708	739	793	7.3%	3.3%
Myanmar	37	42	24	74	90	94	99	5.1%	5.7%
Nepal	15	16	22	26	44	47	49	5.0%	6.7%
New Zealand	134	153	153	161	163	169	172	1.8%	1.4%
North Korea	20	18	17	19	20	18	18	2.0%	-0.5%
Pakistan	374	336	403	525	546	560	484	-13.5%	1.4%
Philippines	350	312	314	401	452	480	500	4.1%	2.0%
Singapore	729	859	1,164	1,283	1,361	1,401	1,401	0.0%	3.7%
South Korea	2,135	2,191	2,269	2,473	2,605	2,584	2,522	-2.4%	0.9%
Sri Lanka	76	96	88	110	126	130	134	3.0%	3.2%
Taiwan	868	991	1,048	1,012	1,014	1,010	1,012	0.2%	0.9%
Thailand	748	1,008	1,128	1,362	1,397	1,414	1,438	1.7%	3.7%
Vietnam	165	263	395	410	478	504	530	5.3%	6.7%
Others Asia - Pacific	93	126	174	234	238	231	236	2.3%	5.3%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Americas	29,060	30,892	30,395	31,309	31,315	31,511	32,013	1.6%	0.5%
Argentina	549	570	690	773	760	756	733	-3.1%	1.6%
Bolivia	40	47	63	83	90	93	96	3.4%	5.0%
Brazil	2,135	2,173	2,774	3,177	2,985	3,002	3,003	0.0%	1.9%
Canada	2,008	2,326	2,380	2,417	2,471	2,445	2,449	0.1%	1.1%
Chile	240	272	322	331	352	354	368	3.8%	2.4%
Colombia	270	263	267	342	357	362	361	-0.3%	1.6%
Costa Rica	37	43	49	52	56	57	59	2.6%	2.6%
Cuba	196	178	196	175	153	173	170	-1.6%	-0.8%
Dominican Republic	123	119	117	124	133	138	145	5.1%	0.9%
Ecuador	147	193	248	271	259	264	266	0.9%	3.3%
El Salvador	37	45	44	50	52	53	54	2.0%	2.1%
Guatemala	61	72	70	89	92	94	96	2.2%	2.6%
Haiti	10	14	14	22	22	23	23	1.6%	4.6%
Honduras	28	43	46	61	59	61	63	2.8%	4.5%
Jamaica	66	70	50	53	55	55	56	1.0%	-0.9%
Mexico	2,062	2,069	2,094	2,006	2,053	1,984	1,991	0.3%	-0.2%
Netherlands Antilles	74	79	73	60	57	59	59	0.1%	-1.3%
Nicaragua	24	27	29	35	37	38	37	-3.2%	2.5%
Panama	84	87	125	151	155	161	167	3.7%	3.9%
Paraguay	23	25	35	45	50	52	54	3.6%	4.9%
Peru	163	160	199	235	246	249	256	2.8%	2.5%
Trinidad and Tobago	29	47	47	49	56	55	55	0.8%	3.6%
United States	19,999	21,168	19,476	19,840	19,999	20,273	20,811	2.7%	0.2%
Uruguay	43	43	52	53	53	54	55	1.6%	1.4%
Venezuela	497	647	807	672	570	512	443	-13.3%	-0.6%
Others Americas	113	112	127	143	144	144	143	-0.1%	1.3%

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Oil - Supply and Demand

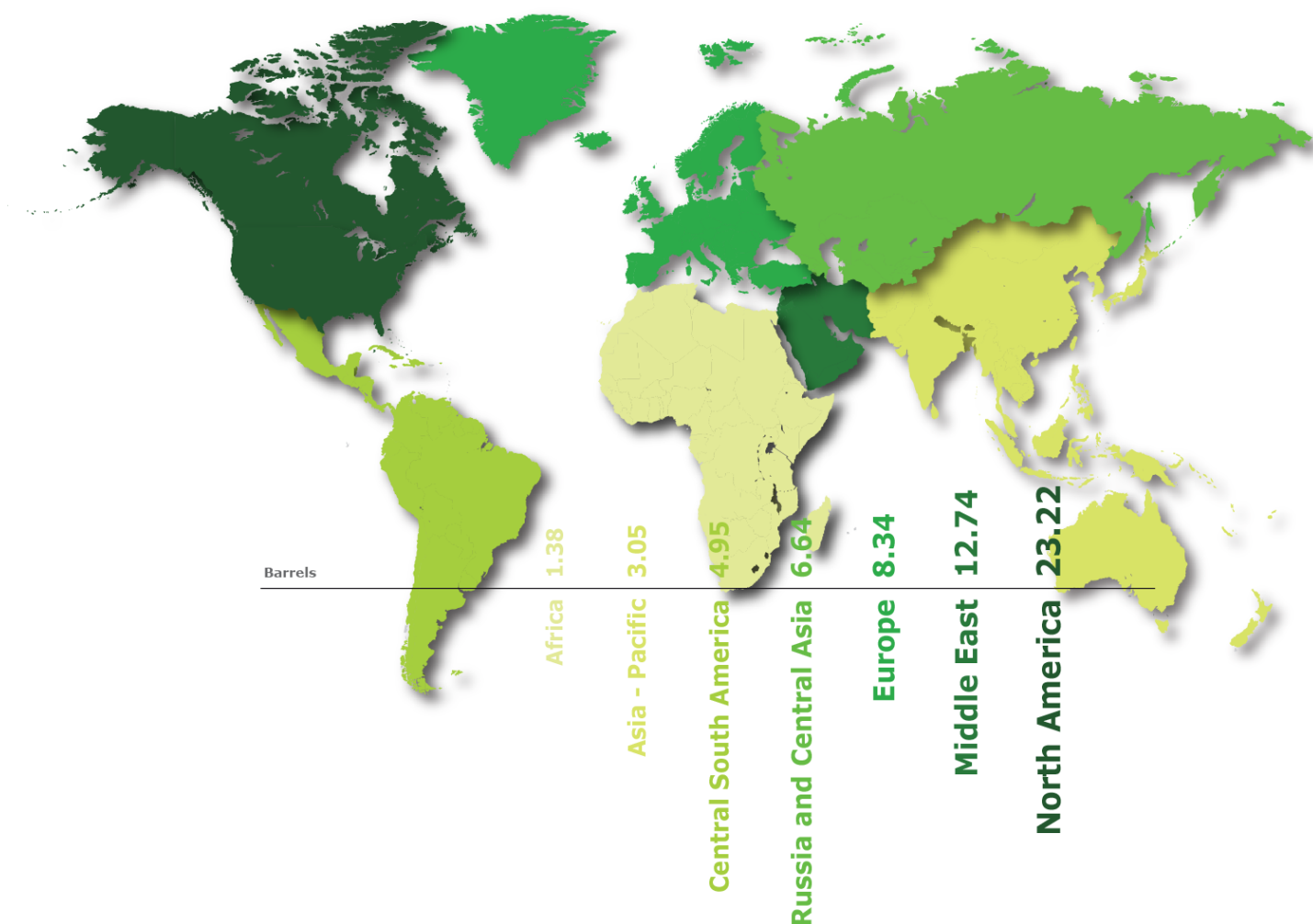
Per Capita Consumption

Areas and Aggregates^(*)

(barrels)

	2000	2005	2010	2015	2016	2017	2018
Europe	9.37	9.59	8.77	8.10	8.19	8.35	8.34
Russia and Central Asia	5.43	5.52	5.54	6.59	6.42	6.41	6.64
Middle East	10.90	12.07	12.86	13.48	13.22	13.01	12.74
Africa	1.22	1.28	1.37	1.45	1.43	1.40	1.38
Asia - Pacific	2.22	2.42	2.60	2.90	2.96	3.02	3.05
Americas	12.74	12.76	11.87	11.63	11.52	11.49	11.56
- North America	25.63	26.09	23.19	22.74	22.78	22.86	23.22
- Central South America	4.96	4.87	5.28	5.28	5.11	5.03	4.95
World	4.60	4.74	4.64	4.73	4.74	4.76	4.77
European Union	11.05	11.25	10.20	9.35	9.42	9.59	9.57
MENA	7.31	8.13	8.85	9.22	9.03	8.86	8.65
OECD	15.31	15.38	13.81	13.29	13.34	13.38	13.42
NON OECD	2.11	2.35	2.64	2.93	2.94	2.96	2.99
OPEC	6.40	7.18	7.91	8.19	7.91	7.70	7.50
NON OPEC	4.50	4.59	4.43	4.50	4.52	4.55	4.58

Per Capita Consumption (2018)

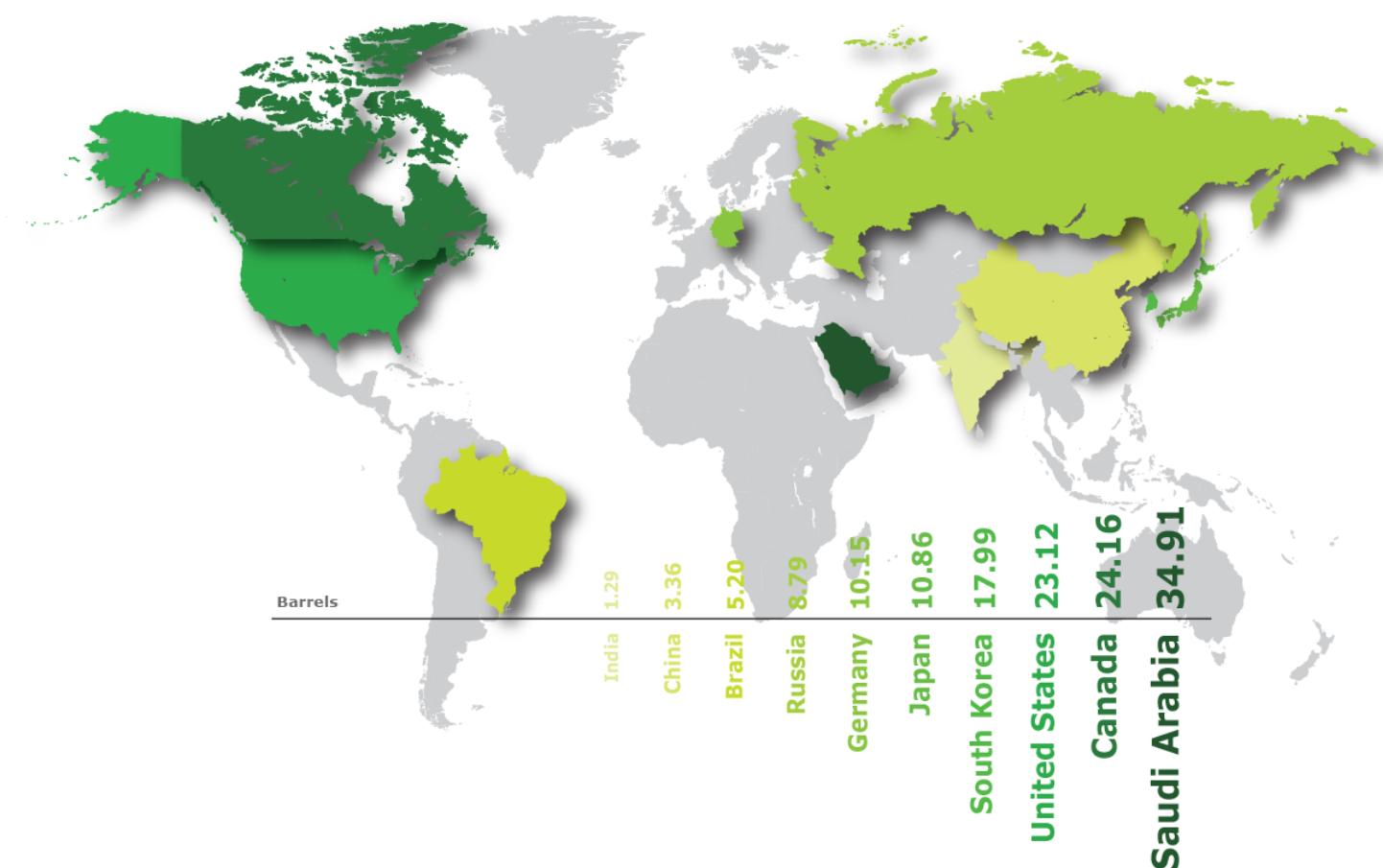


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The World Top 10 Consumers Ranked by Per Capita Consumption^(*)
(barrels)

	2000	2005	2010	2015	2016	2017	2018
Saudi Arabia	27.62	29.64	35.59	39.50	37.95	36.71	34.91
Canada	23.91	26.36	25.58	24.73	25.02	24.46	24.16
United States	25.81	26.06	22.93	22.52	22.53	22.68	23.12
South Korea	16.45	16.42	16.71	17.84	18.72	18.50	17.99
Japan	15.34	14.69	12.32	11.81	11.46	11.15	10.86
Germany	12.40	11.78	11.22	10.58	10.55	10.80	10.15
Russia	6.68	6.94	7.12	8.72	8.44	8.42	8.79
Brazil	4.45	4.24	5.15	5.63	5.25	5.24	5.20
China	1.32	1.87	2.42	3.02	3.12	3.26	3.36
India	0.81	0.84	0.98	1.18	1.22	1.25	1.29

The World Top 10 (2018)



^(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Countries(*) (barrels)

	2000	2005	2010	2015	2016	2017	2018
Europe	9.37	9.59	8.77	8.10	8.19	8.35	8.34
Albania	2.49	3.48	3.20	3.33	3.57	3.68	3.81
Austria	11.31	13.22	12.05	11.06	11.21	11.20	11.40
Belarus	4.38	5.60	5.80	5.32	5.25	5.35	5.53
Belgium	21.65	23.03	21.99	21.00	21.19	20.71	20.71
Bosnia Herzegovina	2.21	2.25	3.32	3.21	3.59	3.69	3.79
Bulgaria	3.91	4.72	4.16	4.83	4.91	5.08	5.26
Croatia	6.78	7.83	6.57	5.97	5.93	6.09	6.27
Cyprus	19.30	20.09	18.72	15.02	16.17	16.54	16.92
Czech Republic	6.03	7.58	7.00	6.75	6.19	7.35	7.39
Denmark	14.35	12.35	11.00	9.91	10.11	10.09	10.17
Estonia	5.48	7.00	7.26	7.90	7.96	7.89	8.01
Finland	14.99	15.33	14.58	14.04	14.20	14.35	14.42
France	12.25	11.86	10.53	9.58	9.32	9.58	9.57
Germany	12.40	11.78	11.22	10.58	10.55	10.80	10.15
Greece	13.07	13.69	11.80	9.61	9.67	9.94	9.84
Hungary	5.11	5.60	5.49	5.80	5.82	6.30	6.64
Iceland	20.82	21.19	16.74	19.13	21.02	22.72	23.76
Ireland	16.41	17.12	13.06	11.32	11.77	11.78	12.01
Italy	11.81	11.05	9.44	7.81	7.60	7.60	7.83
Kosovo	1.50	2.06	2.35	2.82	2.68	2.72	2.77
Latvia	4.29	5.82	6.45	6.72	6.98	8.35	7.84
Lithuania	6.12	6.46	6.51	7.10	7.72	8.01	8.28
Luxembourg	40.17	51.69	43.17	36.21	35.55	37.38	38.80
Macedonia	3.35	3.17	3.20	3.52	3.89	3.89	3.94
Malta	26.31	28.68	40.83	36.67	38.63	40.55	42.27
Moldova	1.33	1.46	1.71	1.82	1.95	2.02	2.09
Montenegro	1.19	3.49	3.84	3.65	4.02	4.15	4.27
Netherlands	21.29	24.21	22.46	20.72	20.78	20.45	19.88
Norway	16.95	17.46	16.04	14.66	14.29	14.12	16.47
Poland	3.89	4.48	5.41	5.16	5.56	6.21	6.49
Portugal	11.74	11.64	9.38	8.32	8.45	8.74	8.54
Romania	3.41	3.81	3.15	3.56	3.77	3.98	3.98
Serbia	1.43	4.09	4.04	3.64	4.00	4.08	4.22
Slovakia	4.53	5.31	5.64	5.30	5.47	5.75	5.82
Slovenia	9.18	9.82	9.90	8.68	9.19	9.15	9.57
Spain	12.79	13.32	11.24	9.81	10.16	10.21	10.50
Sweden	14.88	14.53	13.02	11.13	11.93	11.90	11.47
Switzerland	13.75	13.13	12.15	9.95	9.92	9.64	9.24
Turkey	3.85	3.54	3.41	4.11	4.32	4.47	4.38
Ukraine	2.09	2.40	2.35	1.79	2.00	2.05	2.12
United Kingdom	10.93	11.01	9.37	8.68	8.78	8.74	8.77
	2000	2005	2010	2015	2016	2017	2018
Russia and Central Asia	5.43	5.52	5.54	6.59	6.42	6.41	6.64
Russia	6.68	6.94	7.12	8.72	8.44	8.42	8.79
Armenia	0.76	1.10	1.15	0.91	0.92	0.97	1.02
Azerbaijan	4.78	4.44	2.99	3.66	3.60	3.57	3.57
Georgia	1.40	1.41	1.93	2.44	3.02	3.15	3.29
Kazakhstan	5.00	4.66	5.18	6.33	6.62	6.75	6.87
Kyrgyzstan	1.14	1.00	1.79	2.25	2.38	2.16	2.13
Tajikistan	0.18	0.31	0.52	0.93	0.90	0.93	0.95
Turkmenistan	8.43	9.21	9.03	9.89	9.61	9.94	10.26
Uzbekistan	1.55	1.41	1.02	0.64	0.58	0.60	0.62

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Countries(*) (barrels)

	2000	2005	2010	2015	2016	2017	2018
Middle East	10.90	12.07	12.86	13.48	13.22	13.01	12.74
Bahrain	18.86	26.26	18.33	17.04	16.05	15.79	15.43
Iran	7.83	8.93	9.05	9.21	8.92	9.08	9.23
Iraq	7.30	7.78	7.82	8.08	8.41	8.31	8.60
Israel	15.29	12.90	12.35	9.88	9.87	10.63	10.25
Jordan	7.21	7.13	5.16	5.32	4.41	4.36	4.35
Kuwait	38.41	52.48	54.73	43.19	42.71	41.49	40.37
Lebanon	10.55	8.85	10.08	9.45	9.36	9.35	9.41
Oman	10.22	10.47	15.18	16.04	15.13	14.34	13.97
Qatar	29.78	37.46	35.19	33.41	31.47	30.85	27.36
Saudi Arabia	27.62	29.64	35.59	39.50	37.95	36.71	34.91
Syria	5.07	6.46	5.25	2.63	2.77	3.12	2.91
United Arab Emirates	48.09	40.69	27.19	33.49	36.18	33.19	34.17
Yemen	2.01	2.46	2.27	1.49	1.36	1.27	1.21

	2000	2005	2010	2015	2016	2017	2018
Africa	1.22	1.28	1.37	1.45	1.43	1.40	1.38
Algeria	2.81	2.97	3.54	4.40	3.86	3.76	3.73
Angola	0.82	0.78	1.61	1.84	1.70	1.62	1.56
Benin	0.56	0.87	1.38	1.24	1.25	1.27	1.30
Cameroon	0.51	0.47	0.63	0.62	0.62	0.62	0.62
Congo	0.47	0.64	1.03	1.21	1.15	1.15	1.16
Côte d'Ivoire	0.59	0.48	0.43	0.71	0.75	0.78	0.80
Dem. Rep. Congo	0.06	0.08	0.09	0.10	0.07	0.07	0.07
Egypt	2.81	3.03	3.31	3.34	3.35	3.14	2.86
Ethiopia	0.13	0.16	0.19	0.26	0.27	0.29	0.30
Gabon	4.09	3.96	4.55	4.57	4.48	4.40	4.37
Ghana	0.75	0.84	1.07	1.16	1.14	1.19	1.23
Kenya	0.71	0.62	0.74	0.80	0.86	0.87	0.89
Libya	16.61	16.63	17.99	13.16	13.77	13.87	14.08
Morocco	1.86	2.31	2.89	2.87	2.87	2.92	2.96
Mozambique	0.20	0.19	0.24	0.32	0.49	0.49	0.49
Nigeria	0.67	0.79	0.63	0.83	0.84	0.88	0.93
Senegal	1.16	1.18	1.07	1.16	1.15	1.18	1.21
South Africa	3.44	3.71	4.14	4.18	4.17	4.10	4.08
Sudan	0.46	0.73	0.94	1.28	1.48	1.45	1.40
Tanzania	0.19	0.28	0.27	0.46	0.41	0.42	0.42
Tunisia	3.18	3.30	3.02	3.30	3.12	3.13	3.16
Zambia	0.37	0.43	0.34	0.50	0.48	0.48	0.48
Zimbabwe	0.69	0.40	0.35	0.63	0.55	0.60	0.58

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Oil - Supply and Demand

Per Capita Consumption

Countries(*)

(barrels)

	2000	2005	2010	2015	2016	2017	2018
Asia - Pacific	2.22	2.42	2.60	2.90	2.96	3.02	3.05
Australia	16.69	17.36	14.93	16.98	16.74	17.53	17.88
Bangladesh	0.18	0.20	0.19	0.26	0.25	0.26	0.27
Brunei	13.97	13.62	15.43	15.05	13.16	13.13	13.21
China	1.32	1.87	2.42	3.02	3.12	3.26	3.36
Hong Kong	13.69	15.51	21.61	18.71	19.30	21.76	22.05
India	0.81	0.84	0.98	1.18	1.22	1.25	1.29
Indonesia	1.99	2.16	2.14	2.29	2.28	2.33	2.45
Japan	15.34	14.69	12.32	11.81	11.46	11.15	10.86
Malaysia	7.01	7.24	7.61	8.18	8.29	8.53	9.03
Myanmar	0.29	0.32	0.17	0.52	0.62	0.65	0.67
Nepal	0.23	0.23	0.30	0.33	0.55	0.58	0.60
New Zealand	12.67	13.48	12.76	12.72	12.75	13.11	13.22
North Korea	0.32	0.28	0.25	0.28	0.29	0.26	0.26
Pakistan	0.98	0.80	0.86	1.01	1.03	1.04	0.88
Philippines	1.64	1.32	1.22	1.44	1.60	1.67	1.71
Singapore	67.99	69.79	83.69	84.63	88.34	89.57	88.27
South Korea	16.45	16.42	16.71	17.84	18.72	18.50	17.99
Sri Lanka	1.47	1.79	1.58	1.94	2.22	2.27	2.33
Taiwan	14.51	16.01	16.56	15.72	15.71	15.61	15.59
Thailand	4.33	5.62	6.12	7.24	7.40	7.48	7.59
Vietnam	0.75	1.14	1.63	1.60	1.84	1.92	2.01

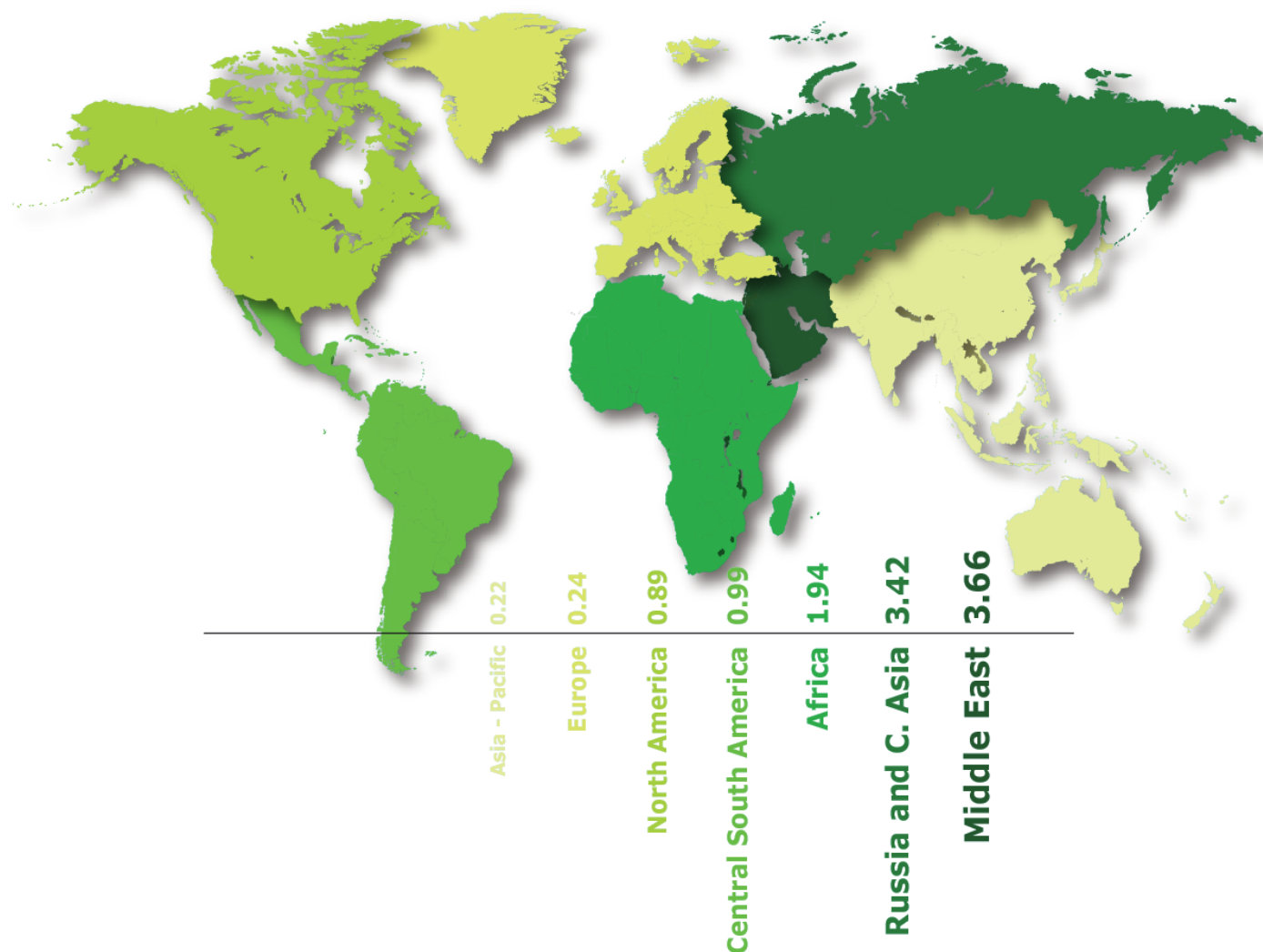
	2000	2005	2010	2015	2016	2017	2018
Americas	12.74	12.76	11.87	11.63	11.52	11.49	11.56
Argentina	5.41	5.31	6.11	6.50	6.33	6.23	5.99
Bolivia	1.76	1.87	2.32	2.84	3.01	3.07	3.13
Brazil	4.45	4.24	5.15	5.63	5.25	5.24	5.20
Canada	23.91	26.36	25.58	24.73	25.02	24.46	24.16
Chile	5.74	6.16	6.92	6.79	7.17	7.17	7.38
Colombia	2.44	2.21	2.12	2.59	2.68	2.69	2.66
Costa Rica	3.42	3.73	3.90	3.93	4.18	4.25	4.32
Cuba	6.42	5.75	6.30	5.58	4.87	5.49	5.40
Dominican Republic	5.26	4.71	4.32	4.29	4.56	4.67	4.86
Ecuador	4.26	5.14	6.06	6.13	5.77	5.79	5.76
El Salvador	2.32	2.71	2.58	2.87	3.00	3.04	3.09
Guatemala	1.91	2.01	1.76	2.00	2.03	2.04	2.04
Haiti	0.43	0.56	0.52	0.76	0.75	0.75	0.75
Honduras	1.58	2.12	2.04	2.47	2.35	2.40	2.43
Jamaica	9.01	9.33	6.50	6.72	6.99	7.00	7.05
Mexico	7.40	6.96	6.52	5.82	5.87	5.61	5.56
Netherlands Antilles	165.53	178.84	146.96	112.05	104.59	106.95	106.32
Nicaragua	1.73	1.82	1.82	2.12	2.18	2.24	2.14
Panama	10.16	9.50	12.48	13.85	13.98	14.35	14.65
Paraguay	1.57	1.55	2.08	2.45	2.73	2.80	2.86
Peru	2.30	2.12	2.48	2.73	2.82	2.83	2.87
Trinidad and Tobago	8.42	13.34	12.92	13.25	14.97	14.62	14.70
United States	25.81	26.06	22.93	22.52	22.53	22.68	23.12
Uruguay	4.70	4.70	5.66	5.67	5.61	5.71	5.78
Venezuela	7.41	8.81	10.14	7.88	6.59	5.84	5.00

(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Areas and Aggregates^(*)

	2000	2005	2010	2015	2016	2017	2018
Europe	0.43	0.35	0.28	0.25	0.25	0.24	0.24
Russia and Central Asia	2.42	3.54	3.97	3.37	3.49	3.50	3.42
Middle East	4.69	4.12	3.37	3.41	3.63	3.58	3.66
Africa	3.17	3.38	2.89	1.98	1.84	1.92	1.94
Asia - Pacific	0.38	0.33	0.31	0.26	0.24	0.23	0.22
Americas	0.72	0.68	0.70	0.89	0.86	0.87	0.92
- North America	0.49	0.43	0.51	0.78	0.76	0.80	0.89
- Central South America	1.46	1.47	1.21	1.15	1.12	1.07	0.99
World	0.97	0.97	0.94	0.96	0.96	0.95	0.96
European Union	0.24	0.18	0.15	0.12	0.12	0.12	0.12
MENA	4.34	3.91	3.18	3.05	3.24	3.24	3.33
OECD	0.45	0.40	0.40	0.51	0.50	0.51	0.56
NON OECD	1.86	1.81	1.56	1.39	1.39	1.35	1.33
OPEC	5.46	4.94	3.95	3.70	3.87	3.86	3.88
NON OPEC	0.61	0.60	0.60	0.63	0.61	0.61	0.62

Production/Consumption Ratio (2018)

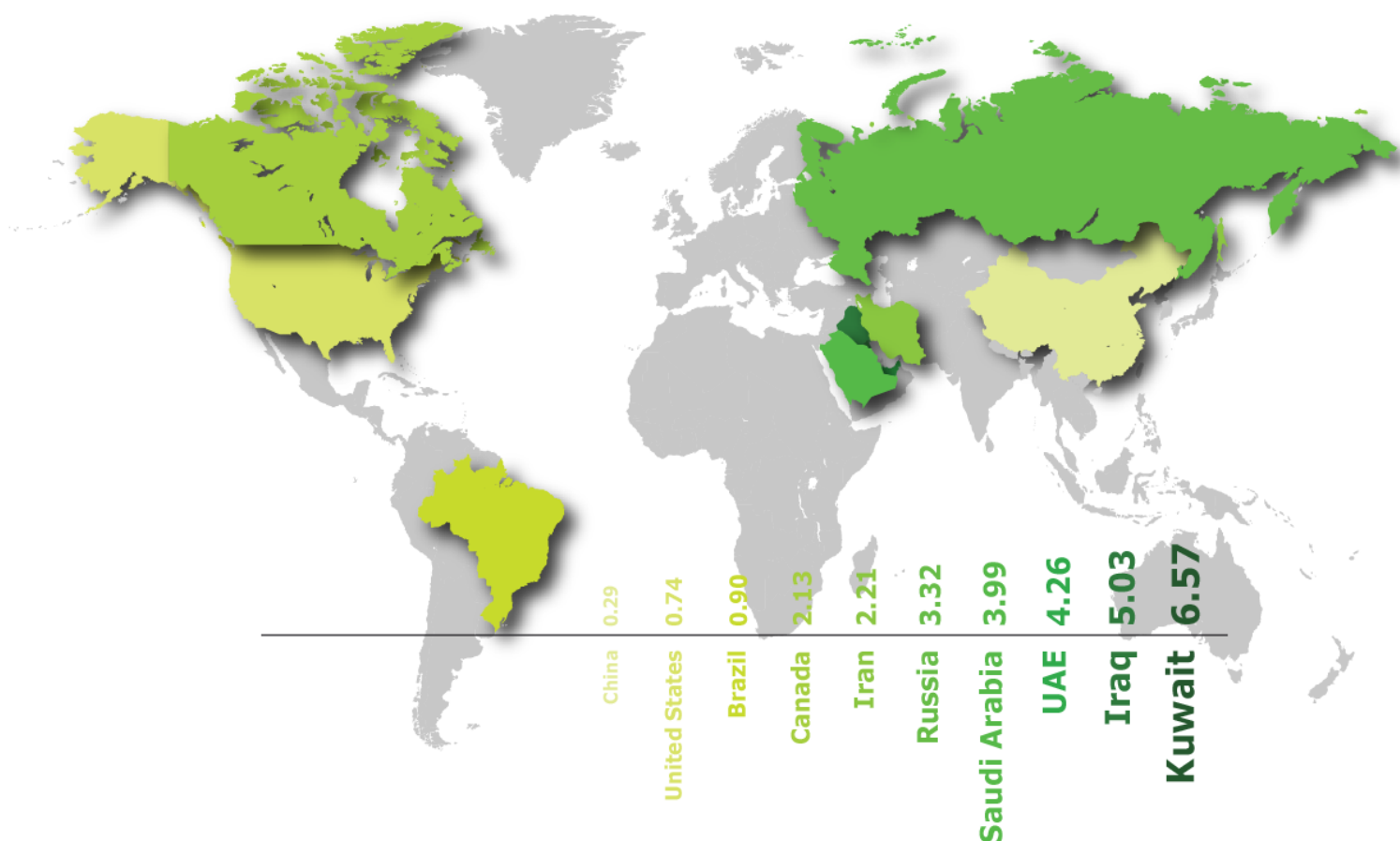


^(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018
Kuwait	10.01	7.78	5.56	6.65	6.74	6.41	6.57
Iraq	5.48	3.19	3.69	5.10	5.25	5.24	5.03
United Arab Emirates	6.31	5.87	4.59	4.48	4.19	4.37	4.26
Saudi Arabia	5.95	5.63	3.73	3.53	3.77	3.66	3.99
Russia	2.44	3.53	3.72	3.23	3.40	3.41	3.32
Iran	2.65	2.45	2.28	1.79	2.25	2.36	2.21
Canada	1.36	1.31	1.40	1.81	1.81	1.97	2.13
Brazil	0.59	0.78	0.77	0.80	0.88	0.91	0.90
United States	0.40	0.33	0.40	0.66	0.63	0.65	0.74
China	0.70	0.53	0.45	0.37	0.33	0.31	0.29

The World Top 10 (2018)



^(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries(*)

	2000	2005	2010	2015	2016	2017	2018
Europe	0.43	0.35	0.28	0.25	0.25	0.24	0.24
Albania	0.27	0.28	0.49	0.88	0.69	0.56	0.48
Austria	0.08	0.06	0.09	0.07	0.06	0.05	0.05
Belarus	0.31	0.24	0.23	0.24	0.24	0.23	0.22
Bulgaria	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Croatia	0.34	0.23	0.23	0.20	0.22	0.22	0.21
Czech Republic	0.04	0.05	0.03	0.04	0.03	0.03	0.03
Denmark	1.73	2.12	1.52	1.01	0.89	0.86	0.71
Estonia	0.22	0.18	0.38	0.56	0.49	0.65	0.75
France	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Germany	0.03	0.04	0.03	0.03	0.03	0.03	0.03
Greece	0.01	0.00	0.01	0.00	0.01	0.01	0.01
Hungary	0.27	0.24	0.17	0.12	0.13	0.13	0.13
Italy	0.04	0.07	0.07	0.10	0.08	0.08	0.08
Netherlands	0.05	0.04	0.03	0.04	0.03	0.02	0.02
Norway	15.94	13.37	9.96	9.33	9.70	9.59	7.66
Poland	0.04	0.06	0.03	0.05	0.04	0.04	0.05
Romania	0.64	0.51	0.51	0.42	0.38	0.35	0.34
Serbia	0.68	0.16	0.22	0.30	0.25	0.24	0.21
Slovakia	0.02	0.09	0.06	0.06	0.05	0.07	0.03
Spain	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turkey	0.08	0.07	0.07	0.05	0.05	0.05	0.06
Ukraine	0.29	0.31	0.27	0.25	0.21	0.20	0.20
United Kingdom	1.53	1.01	0.84	0.62	0.65	0.64	0.69
	2000	2005	2010	2015	2016	2017	2018
Russia and Central Asia	2.42	3.54	3.97	3.37	3.49	3.50	3.42
Russia	2.44	3.53	3.72	3.23	3.40	3.41	3.32
Azerbaijan	2.65	4.32	14.07	8.81	8.63	8.15	8.17
Georgia	0.12	0.08	0.04	0.02	0.01	0.01	0.01
Kazakhstan	3.48	6.52	7.28	5.51	5.11	5.47	5.56
Kyrgyzstan	0.10	0.16	0.03	0.03	0.03	0.03	0.03
Tajikistan	0.13	0.06	0.02	0.00	0.00	0.00	0.00
Turkmenistan	1.52	1.75	1.68	1.78	1.66	1.48	1.33
Uzbekistan	1.65	1.05	0.94	0.95	0.95	0.88	0.79
	2000	2005	2010	2015	2016	2017	2018
Middle East	4.69	4.12	3.37	3.41	3.63	3.58	3.66
Bahrain	5.75	3.10	3.08	3.32	3.39	3.27	3.15
Iran	2.65	2.45	2.28	1.79	2.25	2.36	2.21
Iraq	5.48	3.19	3.69	5.10	5.25	5.24	5.03
Kuwait	10.01	7.78	5.56	6.65	6.74	6.41	6.57
Oman	15.08	10.79	6.89	5.36	5.51	5.37	5.33
Qatar	17.80	13.70	9.72	8.77	9.03	8.85	9.95
Saudi Arabia	5.95	5.63	3.73	3.53	3.77	3.66	3.99
Syria	2.51	1.38	1.27	0.20	0.18	0.16	0.16
United Arab Emirates	6.31	5.87	4.59	4.48	4.19	4.37	4.26
Yemen	4.57	3.04	2.09	0.29	0.16	0.34	0.42

(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

	2000	2005	2010	2015	2016	2017	2018
Africa	3.17	3.38	2.89	1.98	1.84	1.92	1.94
Algeria	5.99	7.14	4.91	3.31	3.74	3.59	3.55
Angola	20.11	29.63	17.43	12.86	13.09	13.02	11.91
Cameroon	5.33	3.99	1.86	2.38	2.31	1.95	1.77
Congo	63.44	38.14	25.21	14.13	13.42	15.98	19.33
Côte d'Ivoire	0.26	1.66	1.63	0.60	0.87	0.66	0.55
Dem. Rep. Congo	2.91	1.96	1.60	1.03	1.30	1.27	1.19
Egypt	1.32	1.02	0.92	0.81	0.76	0.76	0.84
Gabon	20.07	18.06	12.84	10.47	10.33	9.08	8.47
Ghana	0.18	0.12	0.10	1.21	1.04	1.77	1.92
Libya	6.04	6.52	5.47	1.95	1.79	3.62	4.12
Nigeria	9.66	8.48	9.25	5.47	4.52	4.35	4.14
South Africa	0.46	0.42	0.24	0.17	0.16	0.16	0.15
Sudan	4.12	3.97	4.15	1.93	1.29	1.15	1.33
Tunisia	0.92	0.80	0.94	0.54	0.54	0.46	0.54

	2000	2005	2010	2015	2016	2017	2018
Asia - Pacific	0.38	0.33	0.31	0.26	0.24	0.23	0.22
Australia	0.92	0.57	0.61	0.34	0.31	0.27	0.28
Bangladesh	0.06	0.08	0.06	0.03	0.03	0.03	0.03
Brunei	15.29	15.09	10.29	7.36	7.92	7.34	7.10
China	0.70	0.53	0.45	0.37	0.33	0.31	0.29
India	0.33	0.30	0.27	0.20	0.19	0.19	0.18
Indonesia	1.26	0.81	0.70	0.50	0.53	0.50	0.45
Malaysia	1.60	1.53	1.24	1.02	1.04	0.97	0.90
Myanmar	0.33	0.53	0.78	0.15	0.13	0.12	0.11
New Zealand	0.33	0.24	0.39	0.30	0.25	0.22	0.17
Pakistan	0.15	0.19	0.16	0.17	0.16	0.15	0.16
Philippines	0.00	0.07	0.06	0.04	0.03	0.03	0.03
South Korea	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Thailand	0.26	0.29	0.34	0.33	0.33	0.31	0.29
Vietnam	2.02	1.41	0.78	0.83	0.65	0.55	0.47

	2000	2005	2010	2015	2016	2017	2018
Americas	0.72	0.68	0.70	0.89	0.86	0.87	0.92
Argentina	1.57	1.46	1.03	0.81	0.79	0.75	0.79
Bolivia	0.97	1.24	0.81	0.87	0.77	0.69	0.64
Brazil	0.59	0.78	0.77	0.80	0.88	0.91	0.90
Canada	1.36	1.31	1.40	1.81	1.81	1.97	2.13
Chile	0.04	0.03	0.04	0.02	0.01	0.02	0.02
Colombia	2.55	2.01	2.95	2.97	2.49	2.38	2.42
Cuba	0.26	0.31	0.28	0.31	0.33	0.27	0.26
Ecuador	2.74	2.76	1.89	1.99	2.11	2.01	1.96
Guatemala	0.34	0.26	0.17	0.11	0.10	0.08	0.08
Mexico	1.67	1.82	1.41	1.30	1.20	1.13	1.04
Peru	0.64	0.73	0.78	0.64	0.55	0.53	0.52
Trinidad and Tobago	4.72	3.60	3.16	2.20	1.73	1.80	1.58
United States	0.40	0.33	0.40	0.66	0.63	0.65	0.74
Venezuela	6.47	4.78	3.44	3.96	4.26	4.17	3.46

^(*) Data source: Eni's calculations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Oil - Trade and Prices

Regional Crude Balances

Exports

Imports

Crude Future Price and Open Interests

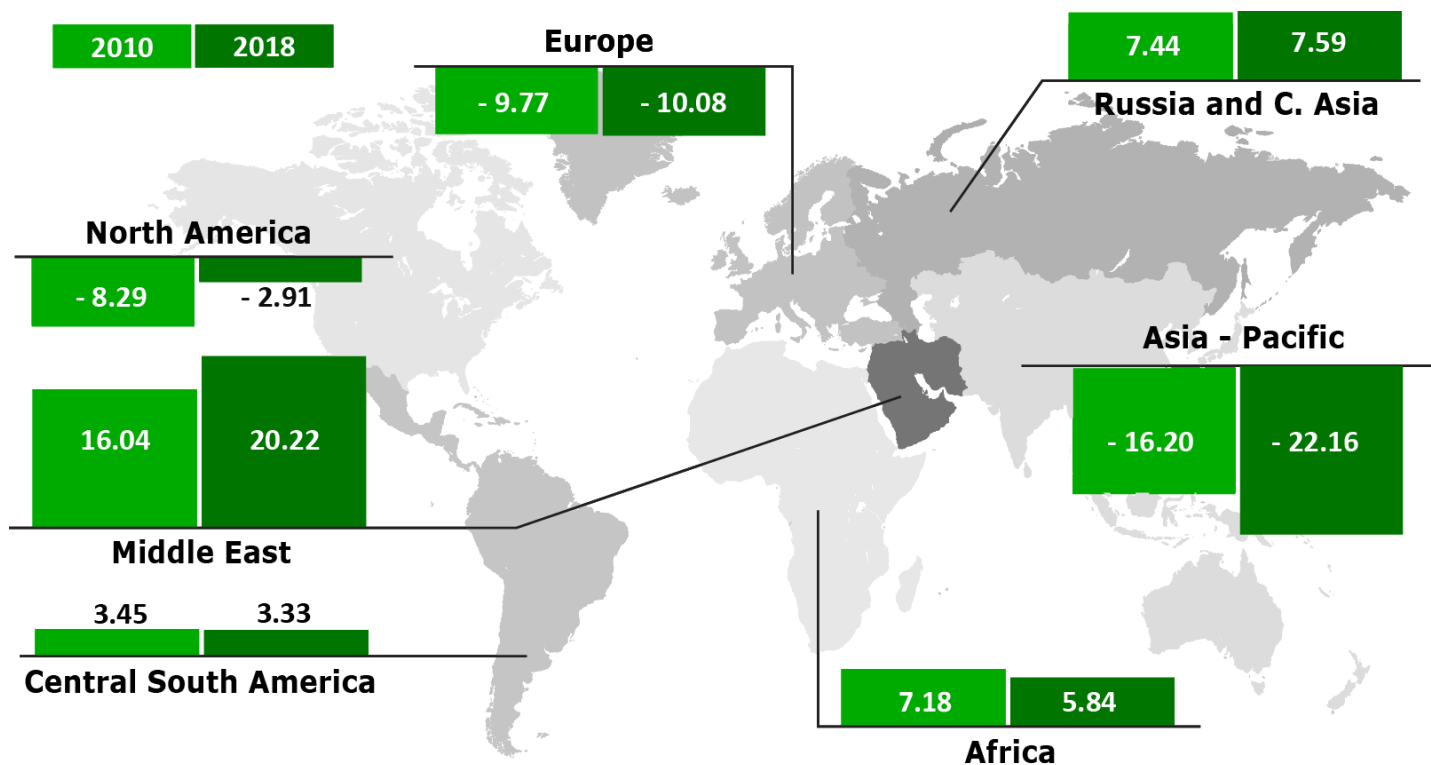
Crude Surplus Deficit by Area^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ (2018-2017)	Δ (2018-2000)
Europe	-7,969	-10,175	-9,772	-10,108	-9,884	-10,304	-10,080	224	-2,111
Russia and Central Asia	3,648	6,708	7,441	7,157	7,375	7,510	7,594	83	3,946
Middle East	15,815	17,103	16,043	19,188	20,735	20,109	20,215	106	4,400
Africa	4,499	6,636	7,184	5,751	5,251	5,684	5,842	158	1,342
Asia - Pacific	-10,799	-13,541	-16,201	-19,371	-20,436	-21,183	-22,162	-978	-11,362
Americas	-5,823	-6,085	-4,845	-491	-920	-956	415	1,371	6,238
- North America	-9,137	-9,737	-8,294	-4,447	-4,855	-4,514	-2,911	1,603	6,226
- Central South America	3,314	3,652	3,449	3,956	3,935	3,557	3,326	-232	12
World	-628	647	-151	2,127	2,121	860	1,824	964	2,452

Crude Surplus Deficit by Area (2010 and 2018)

(million barrels/day)



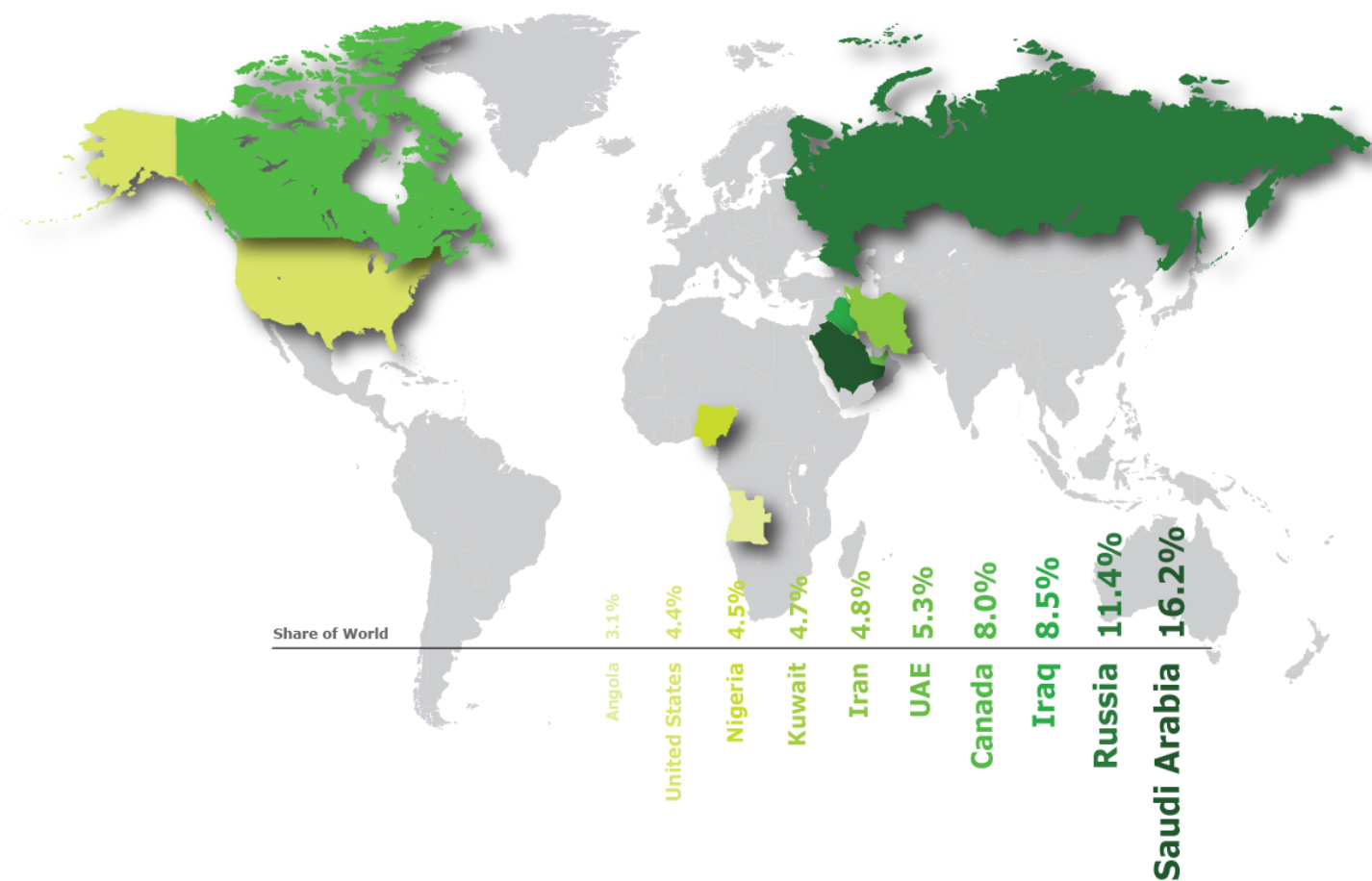
^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* and WM Consulting data. All rights reserved.

The World Top 10 Exporters^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Saudi Arabia	6,251	7,470	5,792	7,390	7,481	6,965	7,369	5.8%	0.9%
Russia	2,916	5,100	4,912	4,937	5,105	5,171	5,182	0.2%	3.2%
Iraq	2,063	1,400	1,892	3,003	3,814	3,812	3,873	1.6%	3.6%
Canada	1,380	1,578	1,948	3,029	3,104	3,318	3,651	10.0%	5.6%
United Arab Emirates	1,940	2,184	2,225	2,593	2,504	2,473	2,418	-2.2%	1.2%
Iran	2,289	2,417	2,269	1,128	2,096	2,424	2,160	-10.9%	-0.3%
Kuwait	1,218	1,660	1,380	1,965	2,128	2,010	2,155	7.2%	3.2%
Nigeria	2,163	2,313	2,369	2,114	1,768	1,808	2,030	12.3%	-0.4%
United States	51	33	42	452	514	1,103	1,977	79.3%	22.5%
Angola	753	1,202	1,711	1,711	1,638	1,541	1,410	-8.5%	3.5%
Rest of the World	17,522	18,116	16,604	14,006	13,863	14,212	13,216	-7.0%	-1.6%
World	38,546	43,472	41,145	42,328	44,015	44,838	45,440	1.3%	0.9%

The World Top 10 (2018)



^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources. All rights reserved.

Countries^(*)Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe									
Albania	0	0	9	18	16	14	12	-11.4%	
Austria	1	0	0	0	0	0	0		-100.0%
Belarus	7	27	0	32	32	32	33	1.2%	8.9%
Croatia	1	0	0	0	0	0	0		-100.0%
Czech Republic	2	1	0	1	1	0	0	-8.3%	-8.6%
Denmark	275	273	154	90	78	82	56	-31.3%	-8.4%
Germany	64	14	14	7	2	0	0		-100.0%
Greece	0	18	17	2	3	3	4	23.9%	
Hungary	0	7	0	2	1	3	8	161.5%	
Ireland	0	0	2	0	0	6	0	-100.0%	
Italy	0	15	6	14	12	15	10	-31.8%	
Lithuania	6	3	2	1	1	1	1	17.1%	-9.7%
Netherlands	4	21	10	6	7	8	9	9.5%	5.1%
Norway	2,875	2,316	1,586	1,223	1,363	1,348	1,243	-7.8%	-4.6%
Poland	3	5	4	5	4	4	6	35.2%	4.7%
Romania	0	0	2	1	0	0	0	-72.1%	
Slovakia	0	1	0	1	0	1	0	-92.7%	-5.9%
Sweden	0	0	0	0	0	16	0	-100.0%	
Ukraine	5	2	0	0	0	2	0	-100.0%	-100.0%
United Kingdom	1,719	978	733	589	616	686	810	18.1%	-4.1%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Russia and Central Asia									
Azerbaijan	113	286	853	657	650	610	603	-1.1%	9.8%
Georgia	2	1	1	3	0	0	0	156.3%	-7.4%
Kazakhstan	588	1,093	1,386	1,272	1,219	1,357	1,378	1.6%	4.8%
Russia	2,916	5,100	4,912	4,937	5,105	5,171	5,182	0.2%	3.2%
Turkmenistan	32	50	26	69	50	34	34	0.0%	0.3%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Middle East									
Iran	2,289	2,417	2,269	1,128	2,096	2,424	2,160	-10.9%	-0.3%
Iraq	2,063	1,400	1,892	3,003	3,814	3,812	3,873	1.6%	3.6%
Kuwait	1,218	1,660	1,380	1,965	2,128	2,010	2,155	7.2%	3.2%
Oman	895	718	745	844	882	806	793	-1.7%	-0.7%
Qatar	607	697	650	580	576	503	560	11.2%	-0.5%
Saudi Arabia	6,251	7,470	5,792	7,390	7,481	6,965	7,369	5.8%	0.9%
Syria	331	208	163	0	0	0	0		-100.0%
United Arab Emirates	1,940	2,184	2,225	2,593	2,504	2,473	2,418	-2.2%	1.2%
Yemen	368	296	183	9	0	0	0		-100.0%

^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources.
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Countries^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Africa									
Algeria	449	974	714	523	546	534	452	-15.3%	0.0%
Angola	753	1,202	1,711	1,711	1,638	1,541	1,410	-8.5%	3.5%
Cameroon	113	82	56	84	83	69	64	-6.8%	-3.1%
Chad	0	174	122	111	103	103	100	-3.1%	
Congo	249	228	291	216	219	260	330	26.9%	1.6%
Côte d'Ivoire	7	40	38	27	37	32	32	0.0%	9.1%
Dem. Rep. Congo	24	25	22	21	20	19	21	11.4%	-0.6%
Egypt	197	41	188	247	262	221	262	18.4%	1.6%
Equatorial Guinea	114	329	296	251	214	190	175	-7.7%	2.4%
Gabon	264	253	243	214	212	197	187	-5.0%	-1.9%
Ghana	0	0	0	104	85	163	185	13.7%	
Libya	999	1,336	1,345	299	305	788	305	-61.3%	-6.4%
Mauritania	0	0	8	5	6	3	0	-100.0%	
Mozambique	0	0	1	0	0	0	0		
Nigeria	2,163	2,313	2,369	2,114	1,768	1,808	2,030	12.3%	-0.4%
South Africa	4	0	0	0	0	0	0		-100.0%
Sudan	132	236	362	20	19	16	16	0.0%	-10.9%
Tunisia	61	59	77	38	37	33	41	22.2%	-2.2%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Asia - Pacific									
Australia	380	226	311	219	198	178	213	19.4%	-3.2%
Brunei	183	198	148	116	105	98	99	1.6%	-3.3%
China	207	162	61	57	59	98	51	-48.3%	-7.5%
Indonesia	610	433	323	315	344	281	236	-16.0%	-5.1%
Malaysia	347	382	345	324	334	327	342	4.6%	-0.1%
Mongolia	0	1	6	22	22	21	21	2.4%	30.3%
Myanmar	2	7	0	2	3	5	5	-3.7%	5.6%
New Zealand	24	12	47	34	31	26	20	-21.1%	-0.8%
Pakistan	9	0	0	6	6	11	5	-53.8%	-3.1%
Papua New Guinea	73	47	9	0	0	0	0		-100.0%
Philippines	0	15	19	16	15	13	0	-100.0%	
Singapore	0	3	9	15	15	18	0	-100.0%	
Thailand	9	66	29	1	31	33	29	-12.4%	6.4%
Vietnam	308	361	161	184	137	136	121	-11.0%	-5.1%

^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources. All rights reserved.

Countries^(*)Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Americas									
Argentina	278	149	56	37	45	29	44	51.5%	-9.8%
Barbados	1	1	1	1	1	1	1	-3.3%	-2.0%
Bolivia	4	4	0	1	0	0	0		-100.0%
Brazil	19	275	632	737	848	1,043	1,062	1.8%	25.2%
Canada	1,380	1,578	1,948	3,029	3,104	3,318	3,651	10.0%	5.6%
Colombia	385	229	470	790	629	633	596	-5.7%	2.5%
Costa Rica	0	0	0	0	0	0	0		
Ecuador	239	344	326	390	370	355	350	-1.6%	2.1%
Guatemala	19	16	10	9	7	8	7	-8.0%	-5.2%
Mexico	1,831	2,002	1,446	1,235	1,265	1,252	1,271	1.5%	-2.0%
Peru	14	13	19	8	2	0	0		-100.0%
Suriname	2	0	0	0	0	0	0		-100.0%
Trinidad and Tobago	52	72	45	31	28	27	22	-19.3%	-4.7%
United States	51	33	42	452	514	1,103	1,977	79.3%	22.5%
Venezuela	2,015	2,290	1,820	1,873	1,706	1,457	989	-32.1%	-3.9%

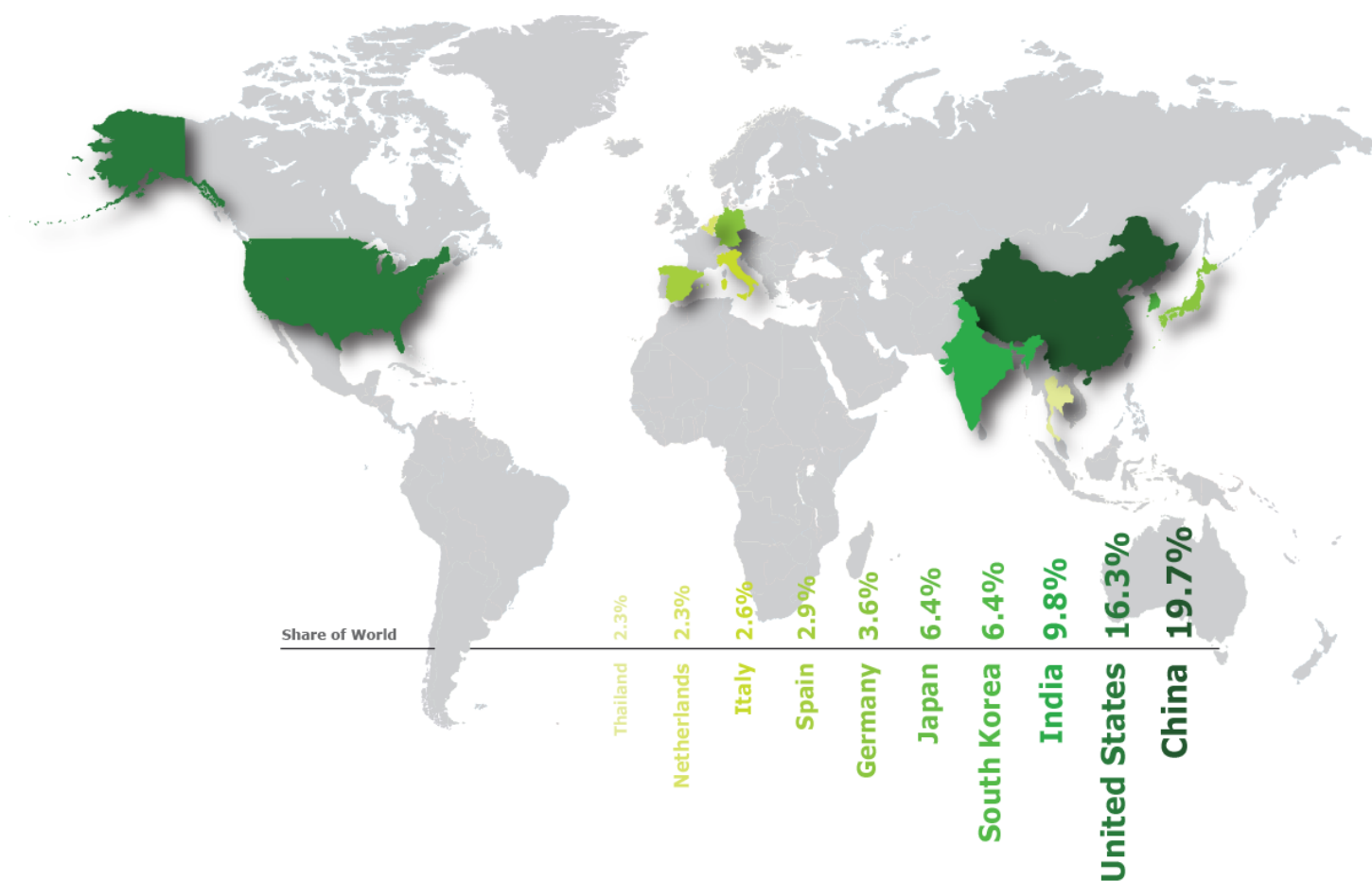
^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources. All rights reserved.

The World Top 10 Importers^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
China	1,409	2,543	4,767	6,728	7,641	8,413	9,262	10.1%	11.0%
United States	9,682	10,777	9,690	7,507	7,792	7,805	7,654	-1.9%	-1.3%
India	1,510	2,026	3,335	4,135	4,361	4,493	4,620	2.8%	6.4%
South Korea	2,437	2,309	2,355	2,755	2,905	3,012	3,006	-0.2%	1.2%
Japan	4,205	4,093	3,436	3,203	3,137	3,158	2,995	-5.1%	-1.9%
Germany	2,074	2,246	1,865	1,825	1,825	1,815	1,703	-6.1%	-1.1%
Spain	1,150	1,191	1,049	1,295	1,283	1,319	1,352	2.5%	0.9%
Italy	1,673	1,790	1,570	1,251	1,218	1,327	1,241	-6.5%	-1.6%
Netherlands	1,093	1,046	1,023	1,046	1,083	1,081	1,087	0.6%	0.0%
Thailand	676	828	849	891	878	1,010	1,059	4.9%	2.5%
Rest of the World	13,261	14,748	12,914	12,791	12,737	13,172	12,952	-1.7%	-0.1%
World	39,171	43,597	42,853	43,427	44,861	46,604	46,932	0.7%	1.0%

The World Top 10 (2018)



^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources. All rights reserved.

Countries^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Europe									
Austria	143	157	135	162	147	144	167	15.4%	0.9%
Belarus	240	386	295	458	363	363	354	-2.3%	2.2%
Belgium	678	639	668	642	637	682	660	-3.2%	-0.1%
Bosnia-Herzegovina	11	3	23	19	19	18	18	-0.8%	3.0%
Bulgaria	106	121	109	122	124	139	115	-17.0%	0.5%
Croatia	80	81	72	47	51	57	59	3.3%	-1.6%
Cyprus	23	0	0	0	0	0	0		-100.0%
Czech Republic	114	155	155	143	107	156	149	-4.8%	1.5%
Denmark	82	54	54	83	77	96	94	-2.0%	0.8%
Finland	217	191	215	203	221	237	236	-0.3%	0.5%
France	1,698	1,685	1,283	1,135	1,085	1,132	1,051	-7.1%	-2.6%
Germany	2,074	2,246	1,865	1,825	1,825	1,815	1,703	-6.1%	-1.1%
Greece	387	374	403	442	469	473	487	2.8%	1.3%
Hungary	116	129	115	124	120	119	134	11.9%	0.8%
Ireland	59	65	61	73	64	64	60	-7.1%	0.1%
Italy	1,673	1,790	1,570	1,251	1,218	1,327	1,241	-6.5%	-1.6%
Lithuania	95	179	180	170	186	196	193	-1.6%	4.0%
Macedonia	16	20	17	0	0	0	0		-100.0%
Netherlands	1,093	1,046	1,023	1,046	1,083	1,081	1,087	0.6%	0.0%
Norway	18	16	11	22	11	36	63	73.9%	7.1%
Poland	360	358	454	530	491	493	537	8.9%	2.2%
Portugal	235	261	220	282	269	284	252	-11.2%	0.4%
Romania	98	179	120	136	153	159	170	6.6%	3.1%
Serbia	6	62	38	37	45	50	56	13.0%	13.5%
Slovakia	107	110	109	118	117	112	109	-2.7%	0.1%
Slovenia	2	0	0	0	0	0	0		-100.0%
Spain	1,150	1,191	1,049	1,295	1,283	1,319	1,352	2.5%	0.9%
Sweden	419	402	397	402	394	397	398	0.3%	-0.3%
Switzerland	92	95	90	56	59	57	60	6.1%	-2.3%
Turkey	433	468	339	501	499	515	419	-18.6%	-0.2%
Ukraine	116	292	155	5	10	18	14	-24.4%	-11.2%
United Kingdom	845	1,044	953	847	792	885	829	-6.3%	-0.1%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Russia and Central Asia									
Azerbaijan	0	0	0	0	0	1	1	0.0%	
Georgia	0	0	0	3	1	1	0	-100.0%	
Kazakhstan	20	75	120	1	0	1	0	-52.5%	-19.2%
Kyrgyzstan	0	0	0	4	5	6	5	-18.3%	14.1%
Russia	119	49	0	58	0	0	0		-100.0%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Middle East									
Bahrain	71	80	85	66	58	67	67	-0.4%	-0.3%
Iran	13	42	13	0	0	0	0		-100.0%
Israel	211	204	221	234	207	232	232	0.0%	0.5%
Jordan	74	90	68	68	58	56	56	0.2%	-1.5%
Syria	0	0	0	110	101	97	84	-13.3%	
Yemen	16	0	0	0	0	0	0		-100.0%

^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other official data sources.
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Countries^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Africa									
Algeria	6	6	7	6	5	5	4	-15.4%	-2.6%
Cameroon	31	30	34	28	27	30	20	-33.0%	-2.4%
Côte d'Ivoire	59	76	59	62	48	45	45	0.0%	-1.5%
Egypt	0	50	73	64	59	62	100	63.0%	
Ghana	26	39	33	6	29	5	5	7.3%	-8.7%
Kenya	49	35	31	14	15	13	10	-20.0%	-8.5%
Madagascar	9	10	0	0	0	0	0		-100.0%
Morocco	143	144	109	56	0	0	0		-100.0%
Senegal	18	20	13	22	23	24	24	0.0%	1.7%
Sierra Leone	4	3	3	4	4	4	0	-100.0%	-100.0%
Somalia	2	0	0	0	0	0	0		-100.0%
South Africa	459	474	385	425	471	448	456	1.8%	0.0%
Sudan	0	0	0	9	22	15	15	0.0%	
Tunisia	24	23	4	19	19	13	13	-6.5%	-3.6%
Zambia	1	8	13	13	10	10	10	0.0%	17.6%

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Asia - Pacific									
Australia	372	379	469	315	330	331	357	7.8%	-0.2%
Bangladesh	26	22	26	22	27	24	24	0.9%	-0.5%
China	1,409	2,543	4,767	6,728	7,641	8,413	9,262	10.1%	11.0%
India	1,510	2,026	3,335	4,135	4,361	4,493	4,620	2.8%	6.4%
Indonesia	224	332	284	384	415	396	410	3.5%	3.4%
Japan	4,205	4,093	3,436	3,203	3,137	3,158	2,995	-5.1%	-1.9%
Malaysia	148	164	159	171	222	228	223	-2.0%	2.3%
Myanmar	13	0	0	0	0	0	9		-1.8%
New Zealand	90	90	98	102	107	107	99	-7.2%	0.6%
North Korea	8	10	11	11	11	10	10	0.0%	1.5%
Pakistan	144	176	136	177	188	220	268	21.9%	3.5%
Papua New Guinea	0	18	20	13	27	28	25	-10.4%	
Philippines	314	215	184	213	215	211	200	-5.1%	-2.5%
Singapore	842	1,180	934	900	965	1,060	951	-10.2%	0.7%
South Korea	2,437	2,309	2,355	2,755	2,905	3,012	3,006	-0.2%	1.2%
Sri-lanka	47	40	36	34	34	32	32	0.0%	-2.1%
Taiwan	743	1,045	876	841	859	853	880	3.2%	0.9%
Thailand	676	828	849	891	878	1,010	1,059	4.9%	2.5%
Vietnam	0	0	0	0	9	39	41	7.1%	

^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources. All rights reserved.

Countries^(*)Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Americas									
Argentina	26	4	0	16	15	22	13	-38.8%	-3.7%
Brazil	399	343	339	298	155	145	181	24.8%	-4.3%
Canada	912	928	770	570	806	822	759	-7.6%	-1.0%
Chile	193	204	158	169	169	175	171	-2.4%	-0.7%
Colombia	4	7	0	0	0	0	0		-100.0%
Costa Rica	1	11	10	0	0	0	0		-100.0%
Cuba	29	39	89	78	39	36	34	-6.2%	0.9%
Dominican Republic	41	42	27	16	23	20	20	0.6%	-3.9%
El Salvador	19	20	15	0	0	0	0		-100.0%
Guatemala	17	5	0	0	0	0	0		-100.0%
Jamaica	21	9	23	24	24	23	23	0.1%	0.5%
Mexico	0	0	0	0	0	0	4		
Nicaragua	16	15	15	15	12	14	14	0.0%	-0.8%
Netherland Antilles	222	232	89	185	162	140	140	0.0%	-2.5%
Panama	44	0	0	0	0	0	0		-100.0%
Paraguay	2	1	0	0	0	0	0		-100.0%
Peru	62	98	97	87	107	119	140	17.8%	4.6%
Trinidad and Tobago	97	92	68	78	101	88	78	-11.8%	-1.2%
United States	9,682	10,777	9,690	7,507	7,792	7,805	7,654	-1.9%	-1.3%
Uruguay	35	41	39	40	41	10	10	0.0%	-6.5%

^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2019) *Monthly Oil Data Services* and other officer data sources.
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Crude Future Prices and Open Interests^(*)

	2000	2005	2010	2015	2016	2017	2018	Δ y/y (2018-2017)	CAGR (2018-2000)
Crude Future Prices (US\$/barrel)									
ICE Brent	28.5	55.3	80.3	53.6	45.1	54.7	71.7	31.0%	5.3%
CME WTI	30.3	56.7	79.6	48.8	43.5	50.9	64.9	27.6%	4.3%
Total Open Interests (no. contracts - daily totals)									
ICE Brent	267,667	350,337	813,445	1,922,243	2,195,065	2,401,096	2,369,529	-1.3%	12.9%
CME WTI	469,685	819,675	1,341,531	1,679,710	1,818,925	2,282,425	2,378,026	4.2%	9.4%

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.

Crude Production by Quality (Gravity and Sulphur Content)^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
World (A)	68,248	74,105	74,118	80,633	80,487	80,508	82,288		
Ultra Light	1,348	1,758	2,003	2,764	2,717	2,727	2,809	2.0%	3.4%
Light & Sweet	15,194	14,167	14,003	15,273	14,751	15,491	17,414	22.3%	21.2%
Light & Medium Sour	2,653	2,943	3,928	3,985	3,852	4,108	4,247	3.9%	5.2%
Light & Sour	2,454	2,358	2,162	2,508	2,564	2,616	2,846	3.6%	3.5%
Medium & Sweet	6,815	8,082	7,714	7,921	7,182	7,405	7,136	10.0%	8.7%
Medium & Medium Sour	2,556	2,848	3,012	3,307	3,385	3,365	3,584	3.7%	4.4%
Medium & Sour	28,049	31,132	30,274	32,625	34,217	33,093	32,684	41.1%	39.7%
Heavy & Sweet	1,395	1,605	2,245	2,186	2,095	1,889	1,903	2.0%	2.3%
Heavy & Medium Sour	1,561	1,948	2,344	2,134	1,878	1,817	1,845	2.3%	2.2%
Heavy & Sour	5,456	6,455	5,733	7,239	7,135	7,271	7,255	8.0%	8.8%
Unassigned production: (B)	767	808	701	691	711	726	564	1.1%	0.7%
% Unassigned production (B/A)	1.1	1.1	0.9	0.9	0.9	0.9	0.7		

Crude Production by Gravity^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
World	68,248	74,105	74,118	80,633	80,487	80,508	82,288		
Light	21,649	21,226	22,096	24,530	23,884	24,942	27,316	31.7%	33.2%
Medium	37,421	42,062	41,000	43,854	44,783	43,864	43,404	54.8%	52.7%
Heavy	8,412	10,008	10,322	11,558	11,108	10,977	11,003	12.3%	13.4%
Unassigned production	767	808	701	691	711	726	564	1.1%	0.7%

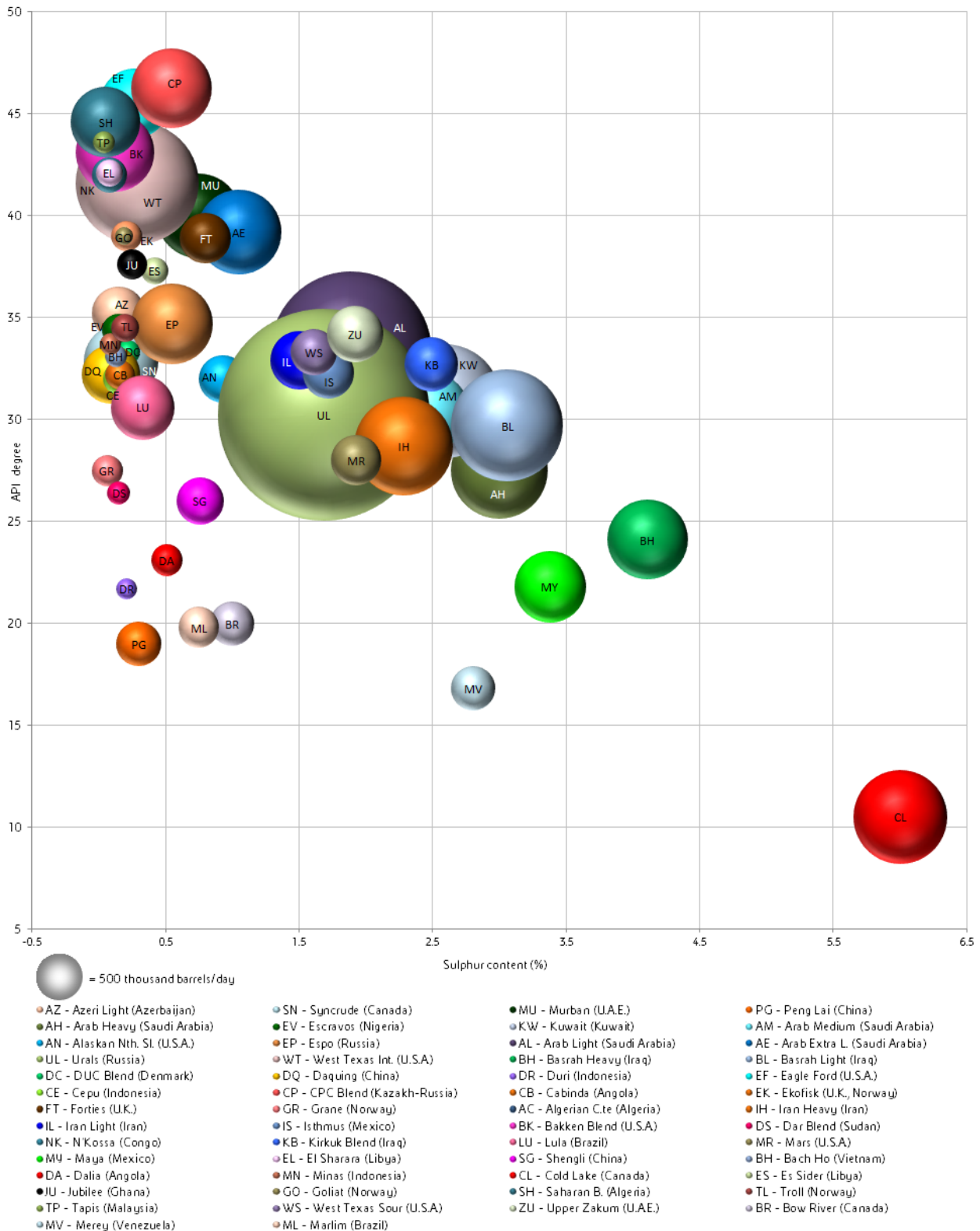
Crude Production by Sulphur Content^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
World	68,248	74,105	74,118	80,633	80,487	80,508	82,288		
Sweet	24,752	25,613	25,964	28,144	26,744	27,512	29,262	36.3%	35.6%
Medium Sour	6,770	7,738	9,284	9,426	9,115	9,290	9,675	9.9%	11.8%
Sour	35,959	39,945	38,169	42,372	43,916	42,980	42,786	52.7%	52.0%
Unassigned production	767	808	701	691	711	726	564	1.1%	0.7%

^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

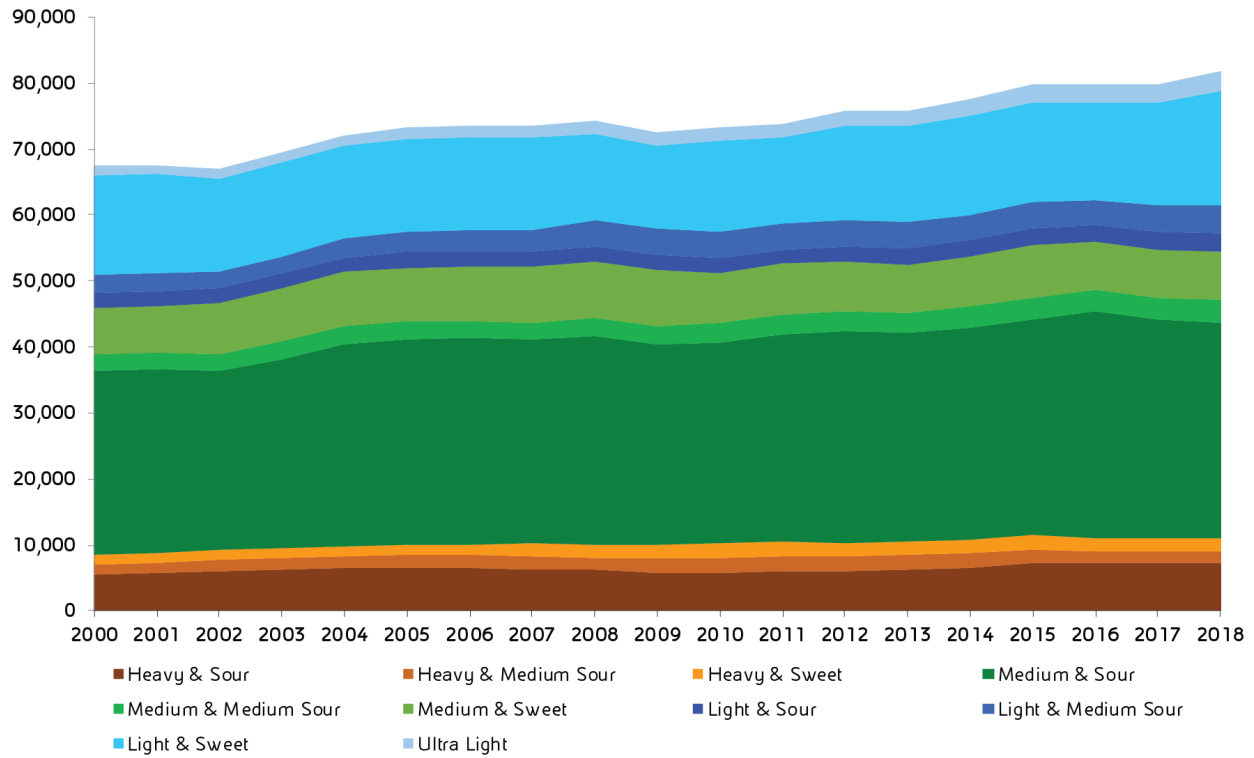
Quality and Production Volume of Main 2018 Crudes^(*)
(thousand barrels/day)



^(*) Data source: Eni.

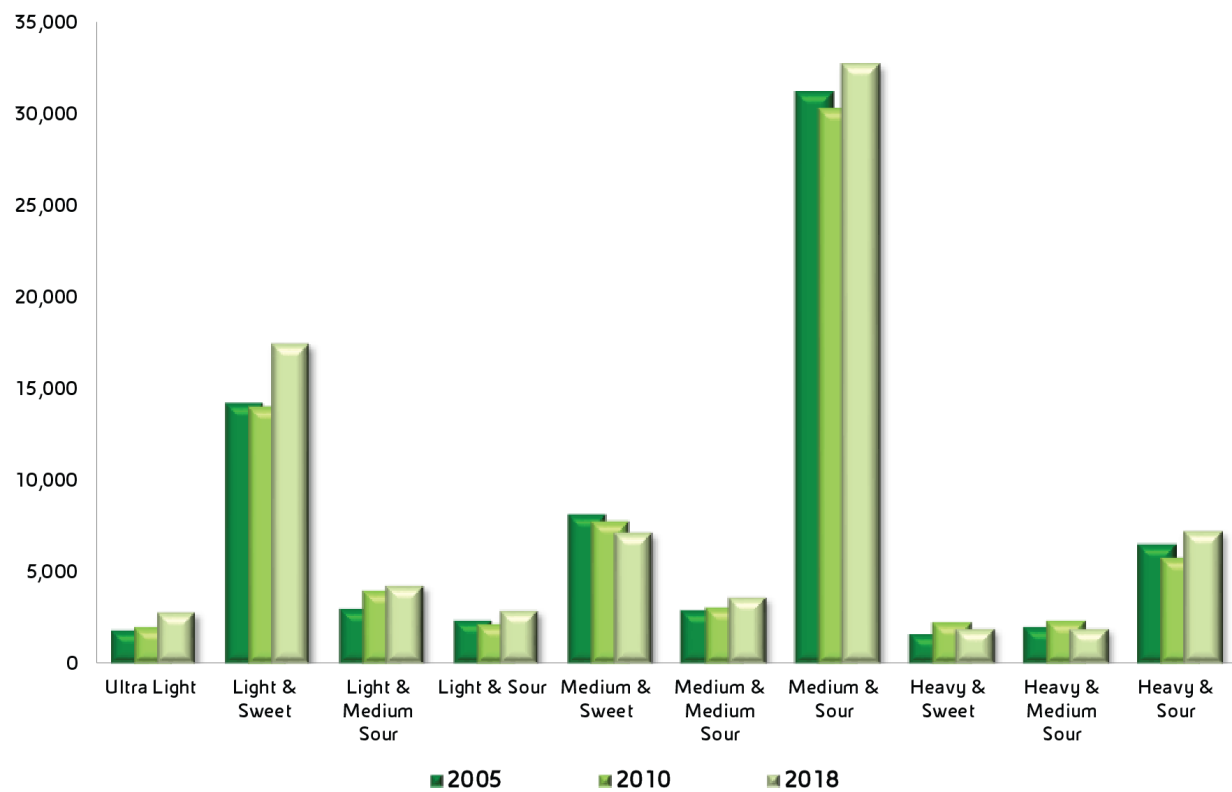
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)

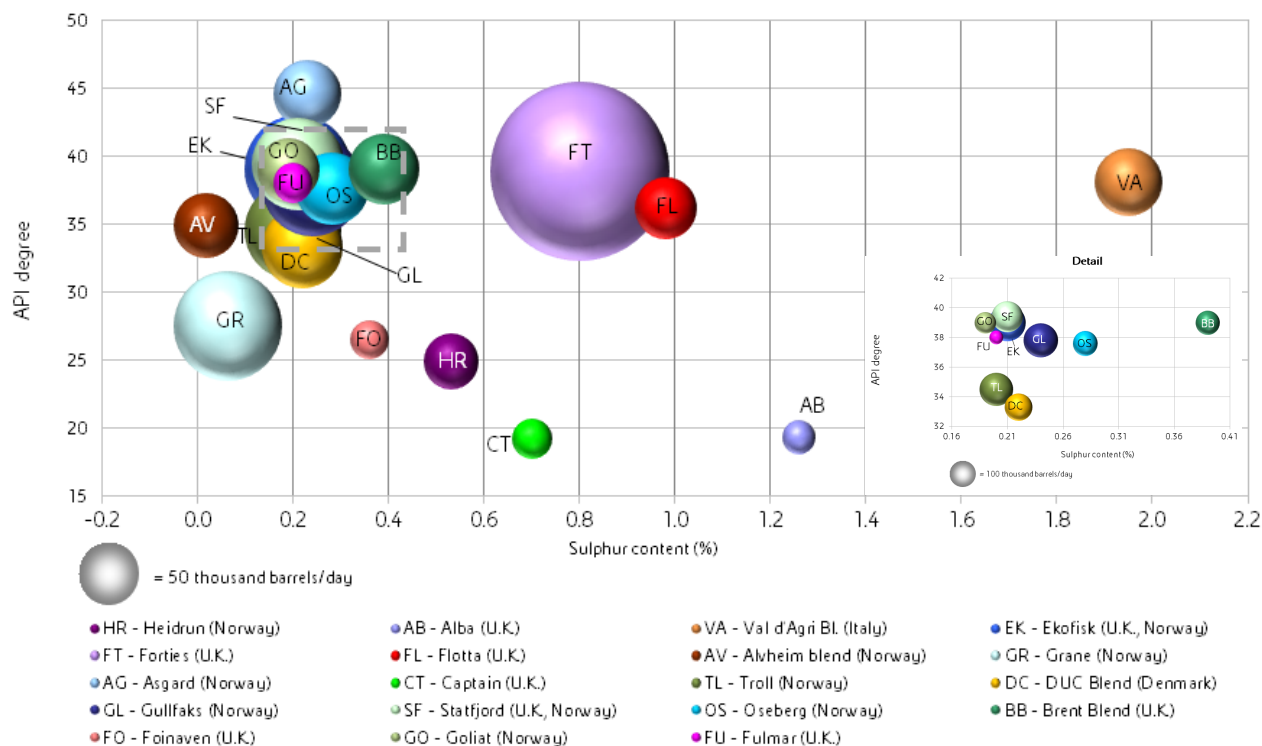


^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Europe (A)	6,629	5,314	3,862	3,163	3,174	3,109	3,090		
Ultra Light	92	122	40	131	105	161	192	1.4%	6.2%
Light & Sweet	4,359	3,096	1,705	1,362	1,297	1,079	994	65.8%	32.2%
Light & Medium Sour	45	133	649	472	526	575	636	0.7%	20.6%
Light & Sour	20	88	68	77	51	62	75	0.3%	2.4%
Medium & Sweet	1,013	891	552	433	486	477	401	15.3%	13.0%
Medium & Medium Sour	124	106	86	79	75	72	71	1.9%	2.3%
Medium & Sour	172	1	29	15	6			2.6%	
Heavy & Sweet	17	36	80	31	35	65	112	0.3%	3.6%
Heavy & Medium Sour	307	398	275	200	248	293	280	4.6%	9.1%
Heavy & Sour	99	79	58	40	39	32	32	1.5%	1.0%
Unassigned production (B)	382	364	319	323	307	294	297	5.8%	9.6%
% Unassigned production (B/A)	5.8	6.8	8.3	10.2	9.7	9.5	9.6		

Quality and Production Volume of Main Crudes 2018^(**) (thousand barrels/day)

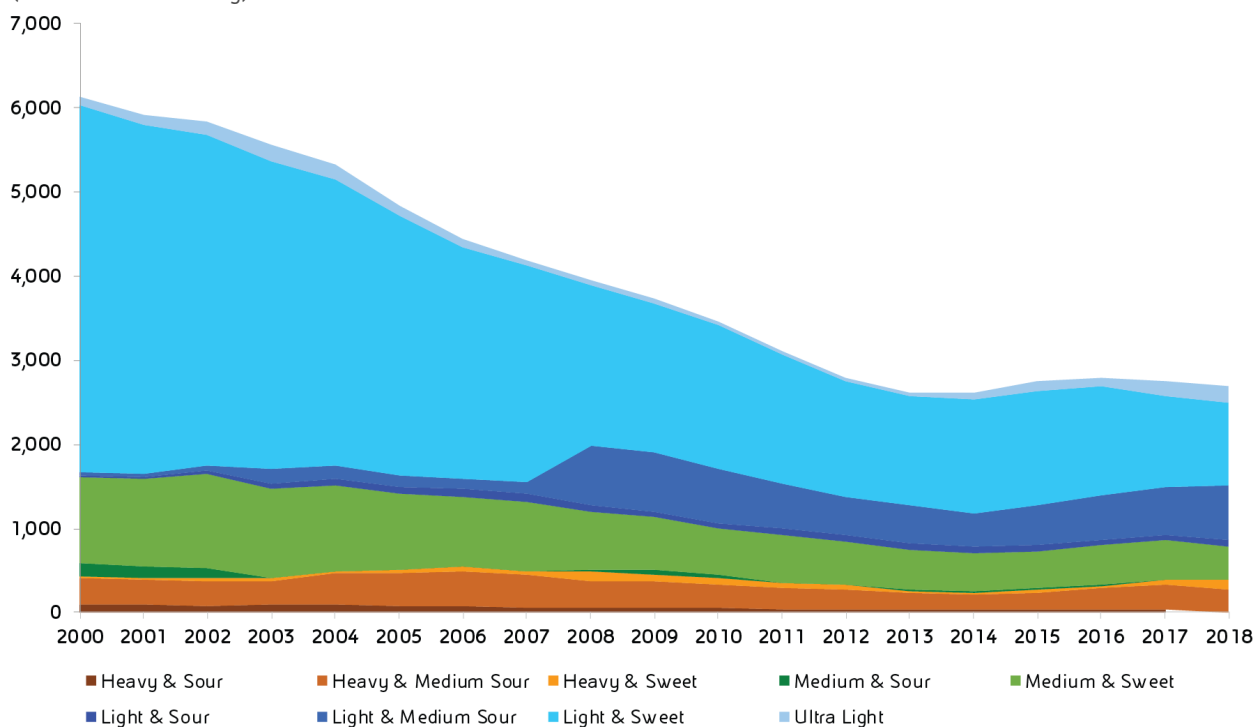


^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

^(**) Data source: Eni.

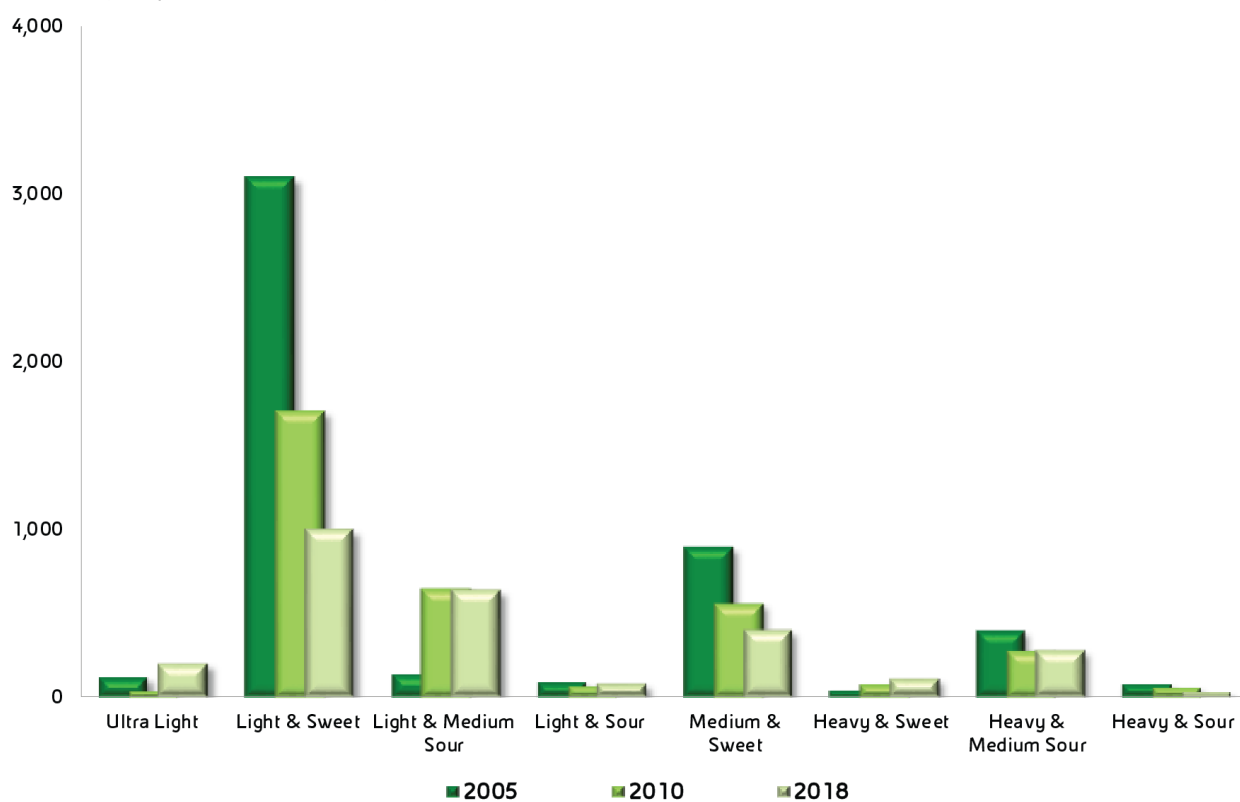
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

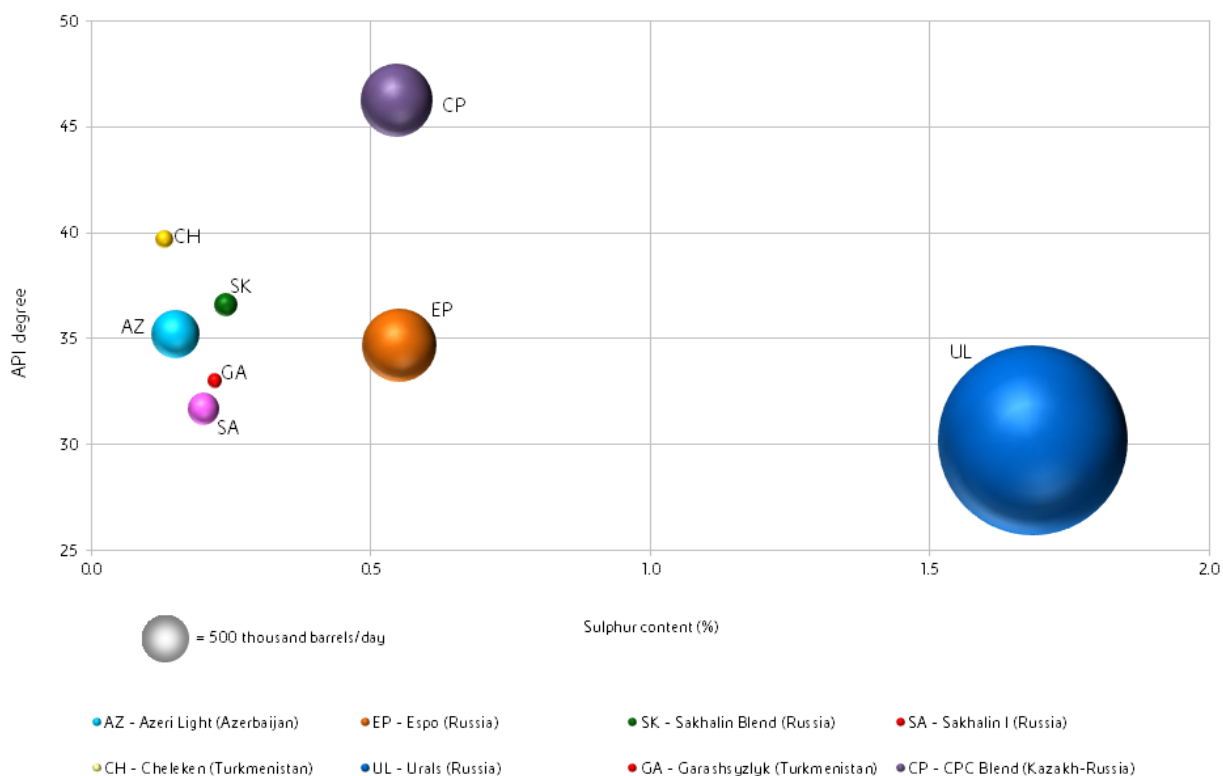
	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Denmark	363	388	255	156	141	137	114		
Light & Sweet	131	121	24	8	9	7	6	36.1%	5.3%
Medium & Sweet	232	267	231	148	132	130	108	63.9%	94.7%
Italy	74	114	96	100	71	78	89		
Light & Sweet	31	4	6	1	0	0	0	41.3%	0.4%
Light & Sour	20	88	68	77	51	62	75	27.6%	83.9%
Medium & Sour	2	1						2.2%	
Heavy & Sour	21	21	21	23	20	16	14	29.0%	15.8%
Norway	3,207	2,690	1,871	1,610	1,648	1,617	1,515		
Ultra Light	92	122	40	131	105	161	192	2.9%	12.7%
Light & Sweet	2,386	1,791	1,277	1,034	985	864	798	74.4%	52.7%
Light & Medium Sour			31	13	14	11	9		0.6%
Medium & Sweet	547	459	273	254	315	317	269	17.1%	17.8%
Medium & Sour			29	15	6				
Heavy & Medium Sour	182	318	221	163	224	264	247	5.7%	16.3%
Romania	124	106	86	79	75	72	71		
Medium & Medium Sour	124	106	86	79	75	72	71	100.0%	100.0%
United Kingdom	2,480	1,652	1,235	894	933	912	1,004		
Light & Sweet	1,811	1,180	398	319	303	208	190	73.0%	18.9%
Light & Medium Sour	45	133	618	459	512	564	627	1.8%	62.5%
Medium & Sweet	234	165	48	31	40	30	24	9.4%	2.4%
Medium & Sour	170							6.9%	
Heavy & Sweet	17	36	80	31	35	65	112	0.7%	11.2%
Heavy & Medium Sour	125	80	54	37	24	29	33	5.0%	3.3%
Heavy & Sour	78	58	37	17	19	16	18	3.1%	1.8%

^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Russia and Central Asia (A)	7,721	11,554	13,162	13,584	13,755	13,881	14,143		
Ultra Light	27	247	241	257	262	276	273	0.3%	1.9%
Light & Sweet	307	325	1,613	1,085	1,044	995	1,003	4.0%	7.1%
Light & Medium Sour	708	1,201	1,369	1,555	1,497	1,695	1,814	9.2%	12.8%
Light & Sour	64	76	49	33	26	30	28	0.8%	0.2%
Medium & Sweet	265	468	223	302	310	348	383	3.4%	2.7%
Medium & Medium Sour	2	4	320	1,069	1,107	1,167	1,376	0.0%	9.7%
Medium & Sour	6,329	9,222	9,333	9,274	9,501	9,364	9,260	82.0%	65.5%
Heavy & Sweet	15	6	11	5	4	4	3	0.2%	0.0%
Heavy & Medium Sour									
Heavy & Sour									
Unassigned production (B)	4	4	3	5	3	3	4	0.1%	0.0%
% Unassigned production (B/A)	0.1	0.0	0.0	0.0	0.0	0.0	0.0		

Quality and Production Volume of Main Crudes 2018^(**) (thousand barrels/day)

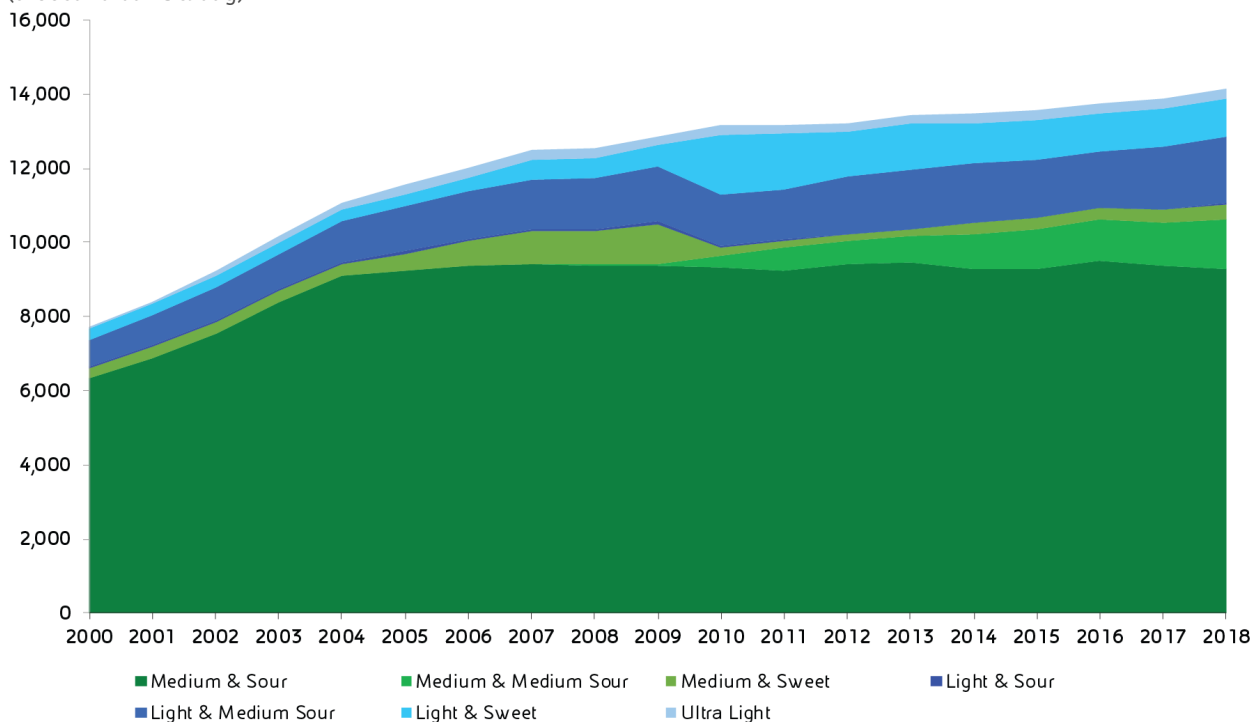


^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

^(**) Data source: Eni.

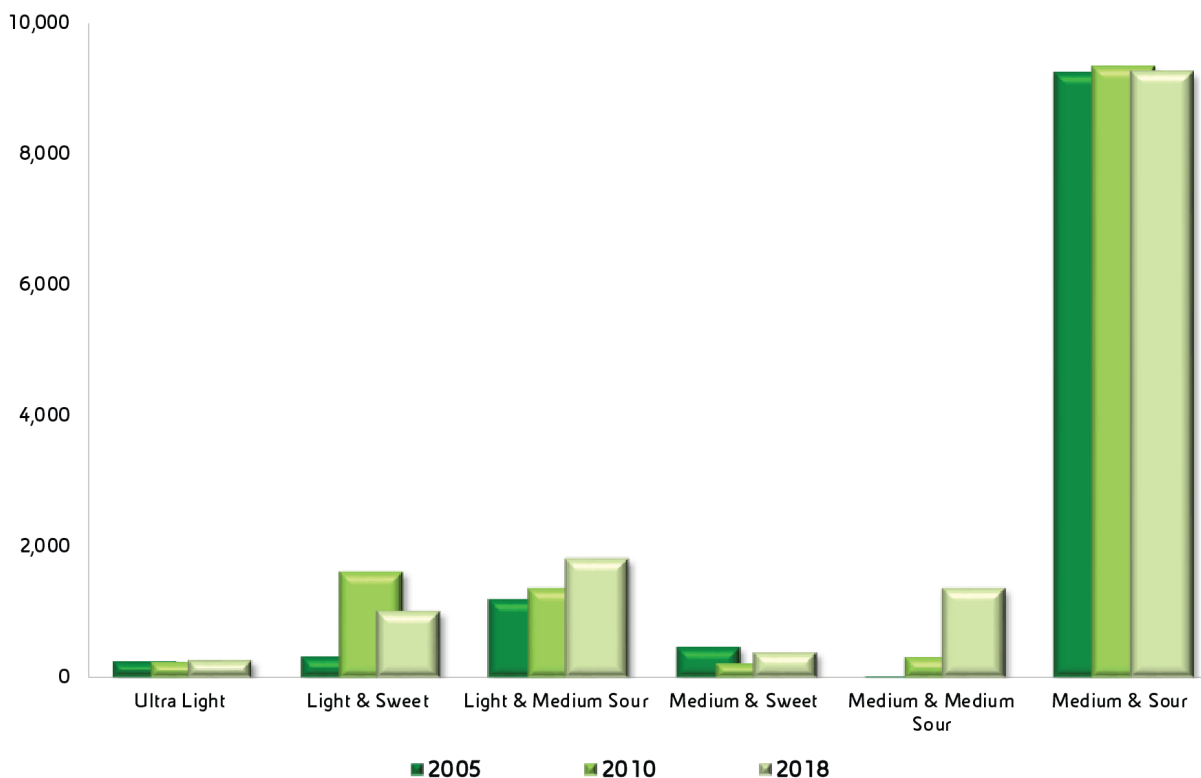
Crude Production by Quality(*)

(thousand barrels/day)



Crude Production by Quality(*)

(selected years, thousand barrels/day)



(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)
(thousand barrels/day)

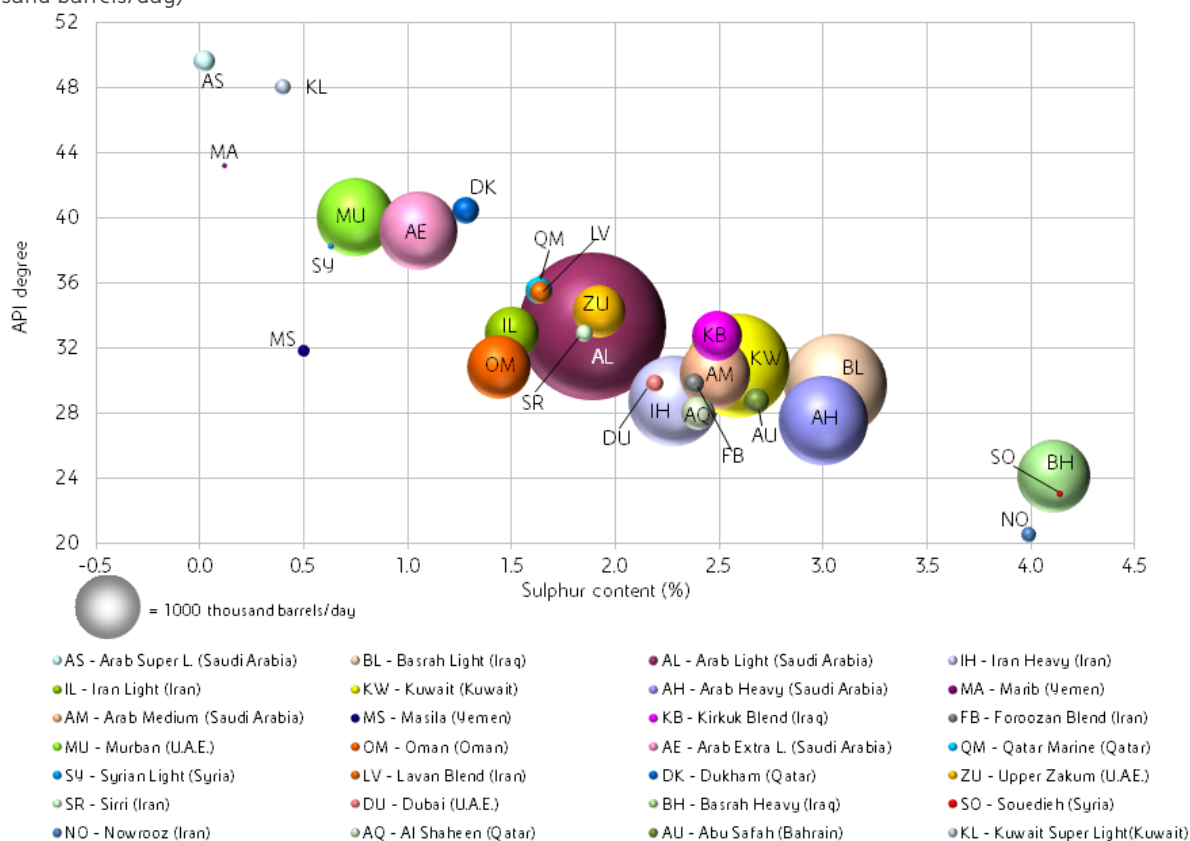
	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Azerbaijan	281	448	1,041	848	828	782	792		
Light & Sweet	149	145	1,012	820	802	757	766	53.0%	96.7%
Medium & Sweet	132	303	29	28	26	25	26	47.0%	3.3%
Kazakhstan	718	1,293	1,694	1,695	1,666	1,840	1,927		
Ultra Light	10	222	225	243	245	265	260	1.4%	13.5%
Light & Sweet			236						
Light & Medium Sour	708	1,071	1,233	1,452	1,421	1,575	1,667	98.6%	86.5%
Russia	6,477	9,491	10,139	10,719	10,964	10,980	11,161		
Light & Sweet	148	139	261	109	118	124	130	2.3%	1.2%
Light & Medium Sour		130	136	103	76	120	147		1.3%
Medium & Sweet			96	167	165	208	251		2.2%
Medium & Medium Sour			318	1,069	1,104	1,164	1,373		12.3%
Medium & Sour	6,329	9,222	9,328	9,272	9,501	9,364	9,260	97.7%	83.0%
Turkmenistan	158	210	211	268	247	232	219		
Ultra Light	0	4	1	3	3	2	5	0.1%	2.1%
Light & Sweet	10	34	101	154	121	112	105	6.5%	48.0%
Medium & Sweet	133	165	98	107	119	115	106	84.0%	48.4%
Heavy & Sweet	15	6	11	5	4	4	3	9.4%	1.5%
Uzbekistan	83	108	74	49	46	44	41		
Ultra Light	16	21	15	11	14	9	9	19.7%	21.5%
Light & Sweet		7	3	2	3	2	2		4.2%
Light & Sour	64	76	49	33	26	30	28	77.7%	67.5%
Medium & Medium Sour	2	4	2	1	3	3	3	2.5%	6.8%

^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Middle East	21,623	22,660	21,831	25,420	27,009	26,514	26,856		
Ultra Light		185	559	796	799	802	802		3.0%
Light & Sweet	352	251	176	128	121	112	173	1.6%	0.6%
Light & Medium Sour	1,365	1,432	1,508	1,626	1,502	1,545	1,497	6.3%	5.6%
Light & Sour	2,347	2,174	1,977	2,344	2,465	2,505	2,717	10.9%	10.1%
Medium & Sweet									
Medium & Medium Sour	258	271	164	16	13	30	34	1.2%	0.1%
Medium & Sour	16,838	17,745	16,842	19,263	20,759	20,098	20,166	77.9%	75.1%
Heavy & Sweet									
Heavy & Medium Sour									
Heavy & Sour	464	603	605	1,247	1,349	1,423	1,467	2.1%	5.5%

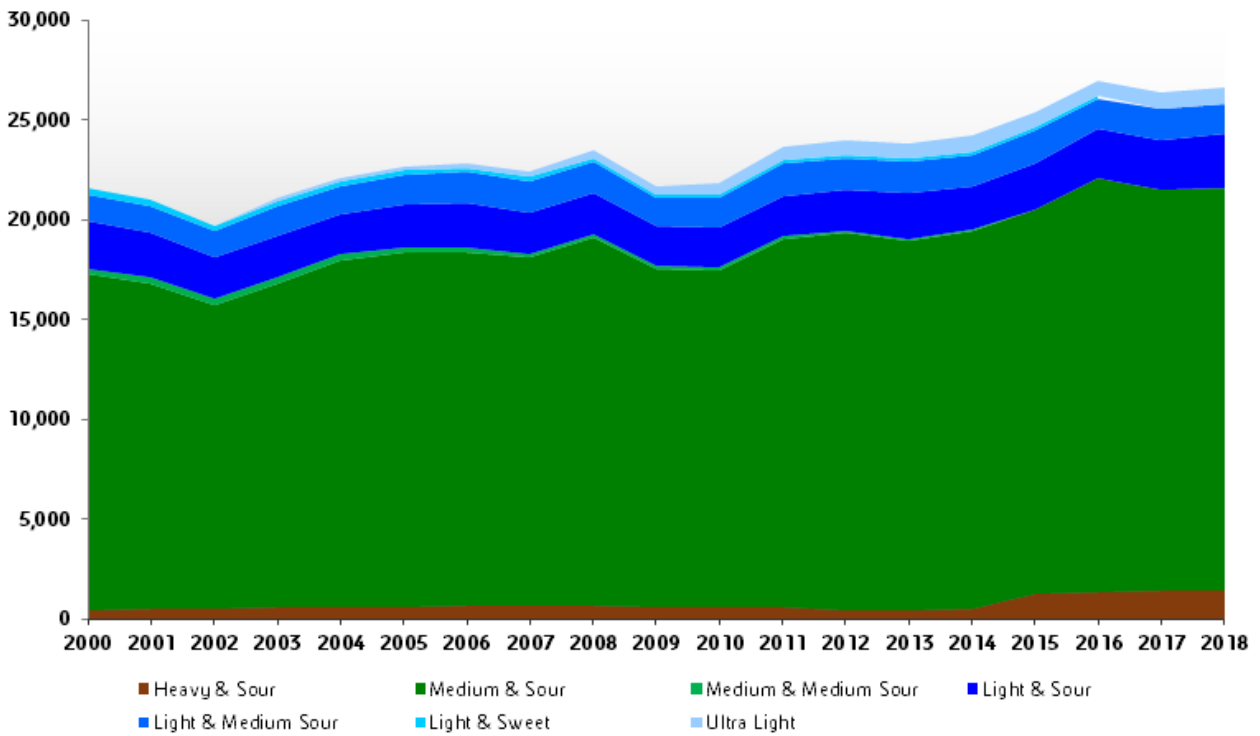
Quality and Production Volume of Main Crudes 2018^(**) (thousand barrels/day)



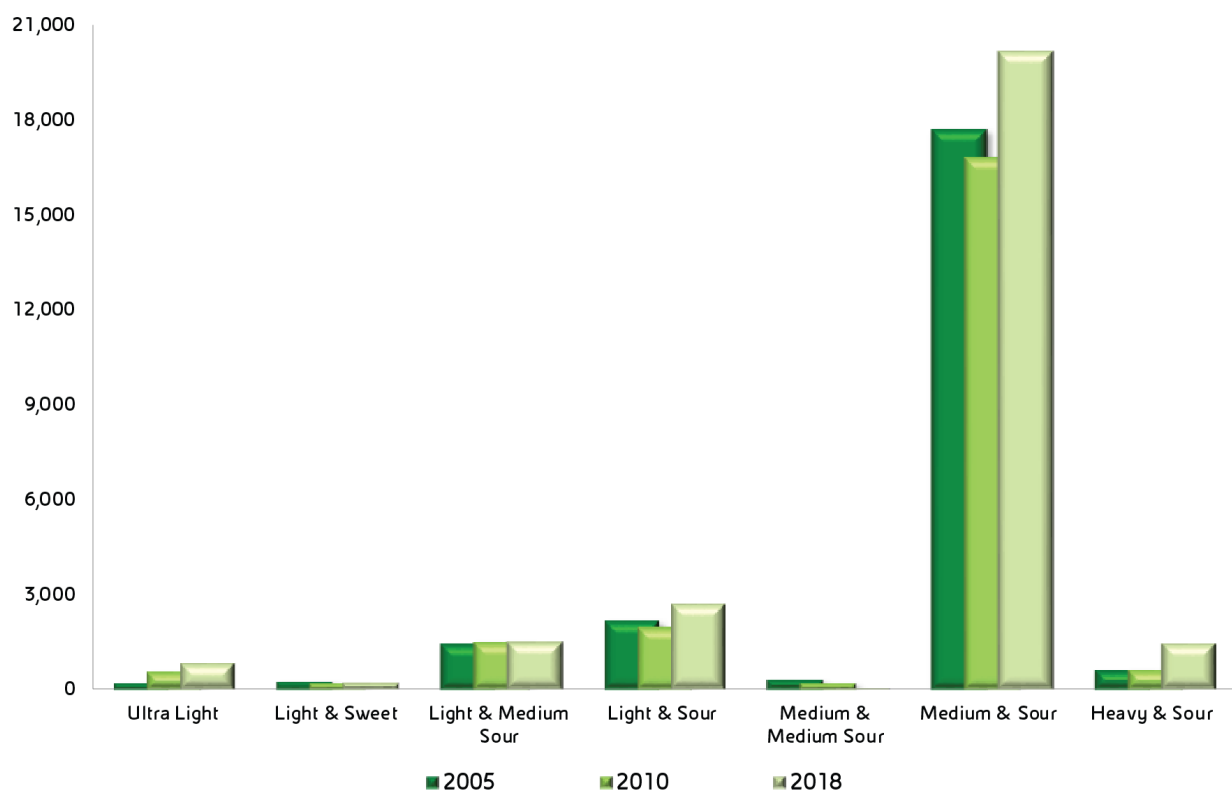
^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

^(**) 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 IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

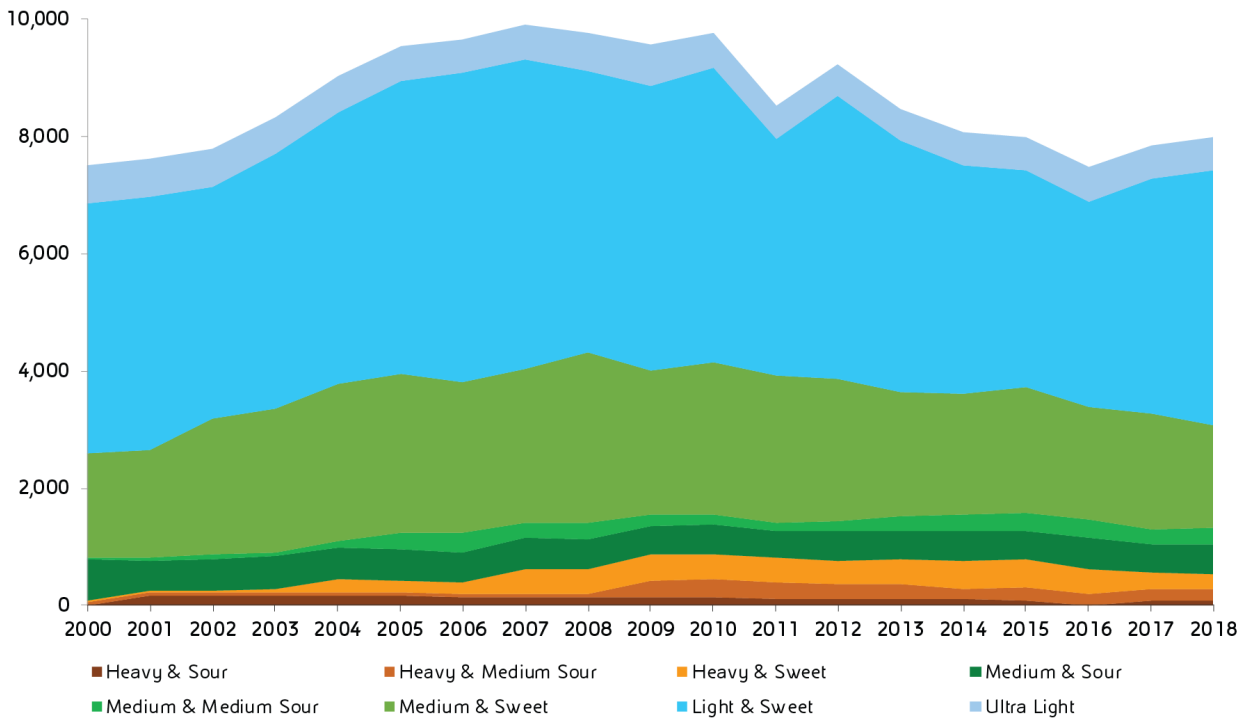
Countries^(*)

(thousand barrels/day)

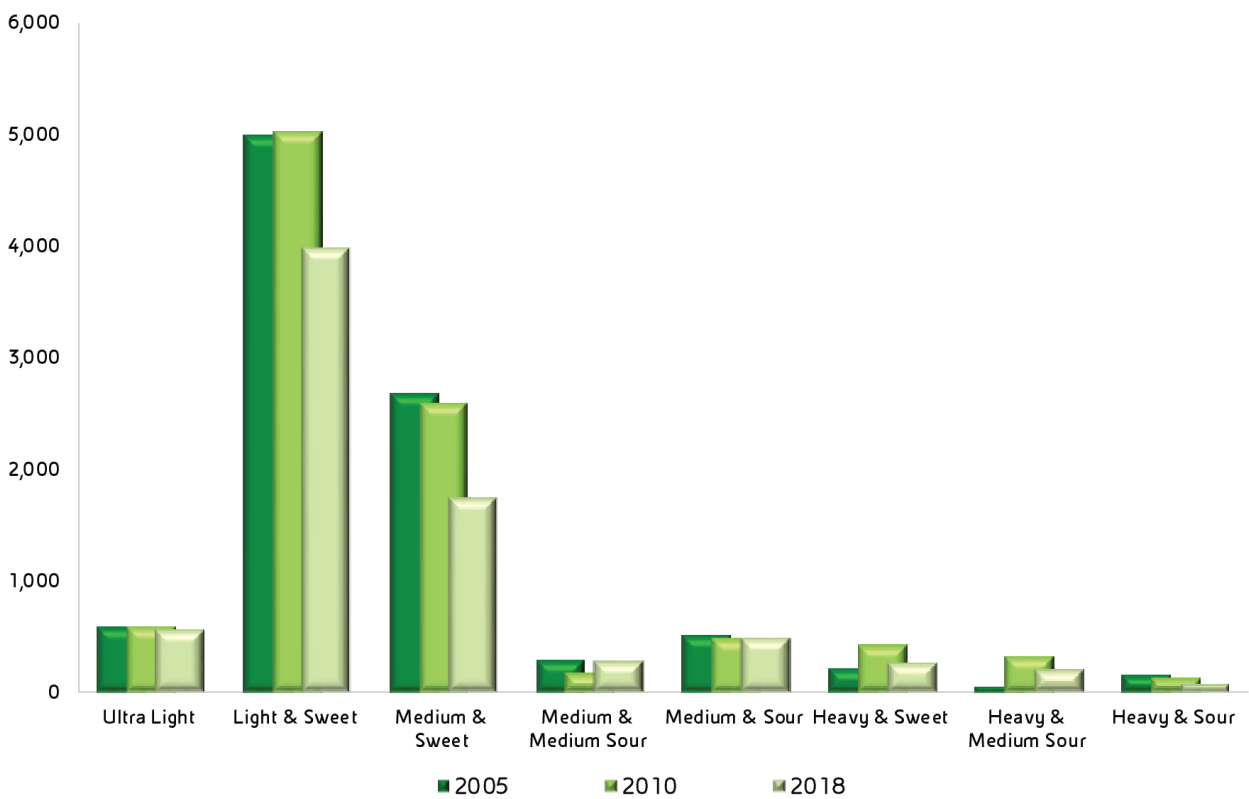
	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Bahrain	187	187	182	202	202	200	197		
Medium & Sour	187	187	182	202	202	200	197	100.0%	100.0%
Iran	3,685	3,879	3,705	2,846	3,552	3,812	3,578		
Light & Sour						94	112		3.1%
Medium & Sour	3,685	3,771	3,558	2,727	3,425	3,586	3,337	100.0%	93.3%
Heavy & Sour		108	147	120	127	132	129		3.6%
Iraq	2,567	1,813	2,364	4,002	4,418	4,473	4,568		
Medium & Sour	2,567	1,813	2,364	2,956	3,210	3,196	3,239	100.0%	70.9%
Heavy & Sour				1,047	1,208	1,277	1,329		29.1%
Kuwait	2,045	2,423	2,298	2,787	2,884	2,707	2,745		
Light & Sweet							57		2.1%
Medium & Sour	1,889	2,268	2,157	2,751	2,884	2,707	2,688	92.4%	97.9%
Heavy & Sour	156	155	140	35				7.6%	
Oman	956	774	865	982	1,004	971	978		
Medium & Sour	956	774	865	982	1,004	971	978	100.0%	100.0%
Qatar	688	959	1,297	1,448	1,449	1,412	1,409		
Ultra Light		185	559	796	799	802	802		56.9%
Light & Sour	584	556	452	356	354	334	340	84.9%	24.1%
Medium & Sour	104	218	286	296	296	275	268	15.1%	19.0%
Saudi Arabia	8,278	9,353	8,177	10,160	10,416	9,958	10,326		
Light & Sweet	162	115	56	115	118	109	111	2.0%	1.1%
Light & Sour	1,269	1,076	1,101	1,331	1,397	1,459	1,518	15.3%	14.7%
Medium & Sour	6,690	8,007	6,879	8,677	8,902	8,390	8,697	80.8%	84.2%
Heavy & Sour	156	155	140	35				1.9%	
Syria	545	413	350	19	17	17	16		
Light & Medium Sour	393	228	172	9	4	3	7	72.2%	44.3%
Heavy & Sour	151	185	178	10	13	14	9	27.8%	55.7%
United Arab Emirates	2,238	2,458	2,311	2,946	3,050	2,933	2,998		
Light & Medium Sour	972	1,203	1,336	1,617	1,498	1,542	1,490	43.4%	49.7%
Light & Sour	493	542	424	657	714	618	747	22.0%	24.9%
Medium & Medium Sour	12	7						0.5%	
Medium & Sour	761	707	551	673	838	773	761	34.0%	25.4%
Yemen	437	400	284	28	16	33	40		
Light & Sweet	190	135	120	12	3	3	6	43.5%	14.2%
Medium & Medium Sour	247	265	164	16	13	30	34	56.5%	85.8%

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



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



^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Algeria	1,436	1,931	1,720	1,590	1,604	1,530	1,524		
Ultra Light	630	603	515	481	494	483	481	43.9%	31.6%
Light & Sweet	806	1,327	1,205	1,109	1,111	1,047	1,042	56.1%	68.4%
Angola	745	1,228	1,750	1,760	1,708	1,642	1,491		
Light & Sweet	355	280	356	248	245	203	169	47.6%	11.4%
Medium & Sweet	329	657	910	823	882	923	842	44.2%	56.5%
Medium & Medium Sour		235	165	301	250	210	179		12.0%
Heavy & Sweet				167	128	100	94		6.3%
Heavy & Medium Sour	61	56	320	221	203	206	207	8.2%	13.9%
Cameroon	114	89	64	93	92	80	74		
Medium & Sweet	81	57	37	63	54	46	41	70.8%	55.9%
Heavy & Sweet	33	32	27	30	38	34	33	29.2%	44.1%
Chad		170	120	129	120	121	117		
Heavy & Sweet		170	120	129	120	121	117		100.0%
Congo	256	239	306	227	210	259	324		
Light & Sweet	131	121	180	107	145	196	261	51.2%	80.6%
Medium & Sweet	125	118	126	120	65	63		48.8%	
Medium & Medium Sour							63		19.4%
Cote d'Ivoire	7	40	39	27	42	34	30		
Medium & Sweet	7	25	16	15	18	11	8	100.0%	25.8%
Heavy & Sweet		15	23	12	24	23	22		74.2%
Dem. Rep. Congo	23	25	25	22	21	20	19		
Medium & Sweet	23	25	25	22	21	20	19	100.0%	100.0%
Egypt	689	618	663	660	629	605	617		
Light & Sweet	122	154	204	243	231	216	211	17.7%	34.3%
Medium & Sour	568	304	329	326	399	317	336	82.3%	54.6%
Heavy & Sour		159	131	92		72	69		11.2%
Equatoria Guinea	144	380	311	276	231	212	208		
Ultra Light			74	100	90	86	86		41.4%
Light & Sweet	12	75						8.2%	
Medium & Sweet	128	263	237	176	102	86	83	88.3%	40.1%
Medium & Medium Sour	5	42			40	39	38	3.4%	18.4%

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Countries^(*)
(thousand barrels/day)

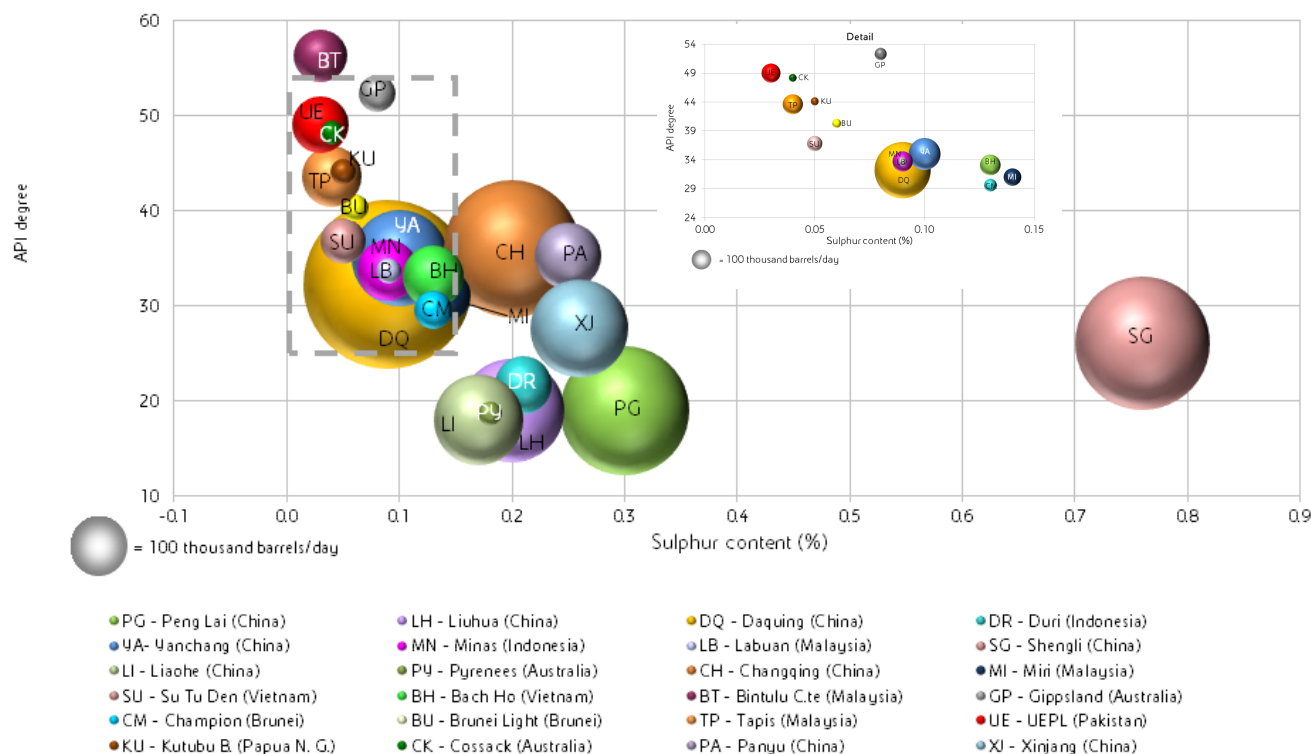
	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Gabon	276	270	249	230	227	200	190		
Light & Sweet		78	98						
Medium & Sweet	201	65	59	143	137	116	105	73.0%	55.4%
Medium & Sour	74	127	92	87	90	84	85	27.0%	44.6%
Ghana	7	6	7	106	92	167	190		
Light & Sweet	7	6	7	106	92	167	190	100.0%	100.0%
Libya	1,411	1,640	1,550	402	391	827	971		
Light & Sweet	1,353	1,550	1,400	282	280	708	870	95.9%	89.6%
Light & Medium Sour			77	51	48	39	35		3.6%
Medium & Sour	58	90	73	70	63	80	66	4.1%	6.8%
Nigeria	2,160	2,546	2,535	2,243	1,921	1,980	2,047		
Light & Sweet	1,453	1,369	1,554	1,569	1,383	1,443	1,602	67.2%	78.3%
Medium & Sweet	707	1,177	981	674	538	537	445	32.8%	21.7%
Heavy & Sweet									
Sudan	177	305	465	253	198	179	202		
Medium & Sweet	177	305	208	118	105	179	202	100.0%	100.0%
Heavy & Sweet			256	135	94				
Tunisia	76	71	79	49	46	40	48		
Light & Sweet	36	35	34	18	16	14	13	47.0%	27.4%
Light & Sour	23	20	32	22	21	19	27	29.7%	55.9%
Medium & Medium Sour	18	16	12	4	3	3	3	23.3%	6.1%
Medium & Sour				5	5	4	5		10.7%

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

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Asia - Pacific (A)	7,539	7,570	7,846	7,746	7,397	7,118	6,939		
Ultra Light	536	419	430	367	323	306	291	7.1%	4.2%
Light & Sweet	2,526	2,799	2,518	2,417	2,876	2,845	2,901	33.5%	41.8%
Light & Medium Sour	31	33				32	31	0.4%	0.4%
Light & Sour			35	32					
Medium & Sweet	2,876	2,623	2,834	2,935	2,241	2,124	1,979	38.2%	28.5%
Medium & Medium Sour	517	536	554	532	462	452	449	6.9%	6.5%
Medium & Sour	17	19	19	17	45	11	11	0.2%	0.2%
Heavy & Sweet	1,009	1,081	1,402	1,389	1,392	1,293	1,225	13.4%	17.7%
Heavy & Medium Sour									
Heavy & Sour									
Unassigned production (B)	27	61	55	59	57	54	52	0.4%	0.8%
% Unassigned production (B/A)	0.4	0.8	0.7	0.8	0.8	0.8	0.8		

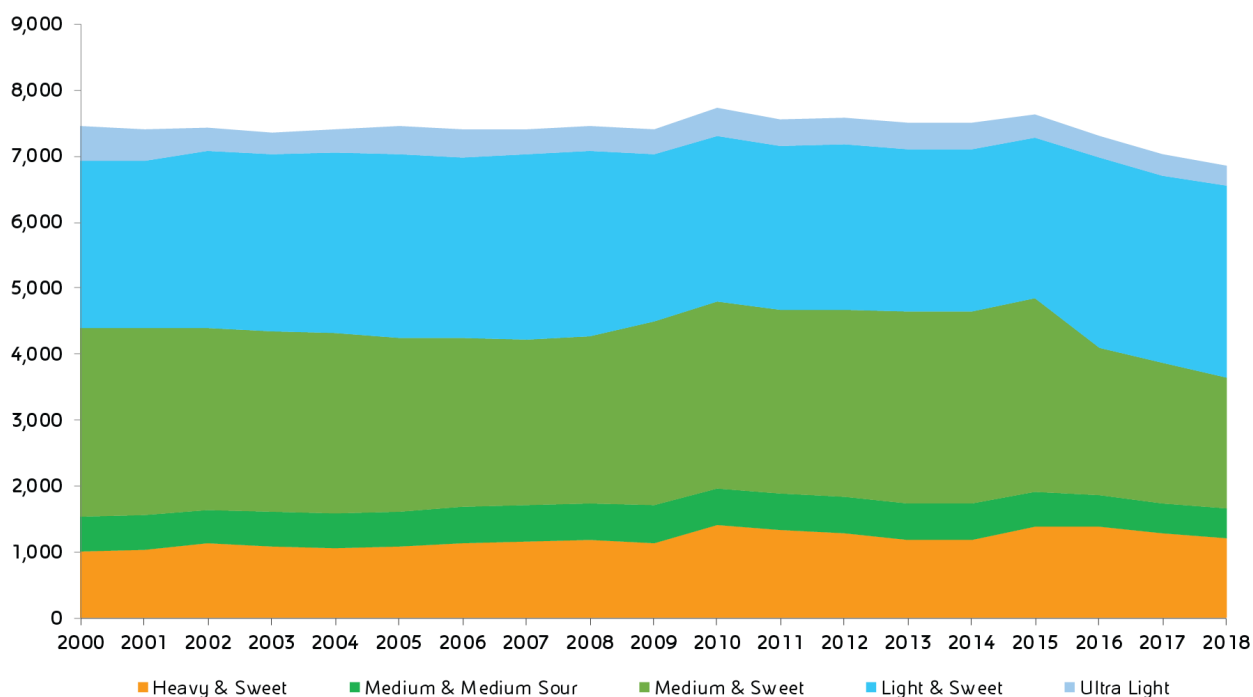
Quality and Production Volume of Main Crudes 2018^(**) (thousand barrels/day)



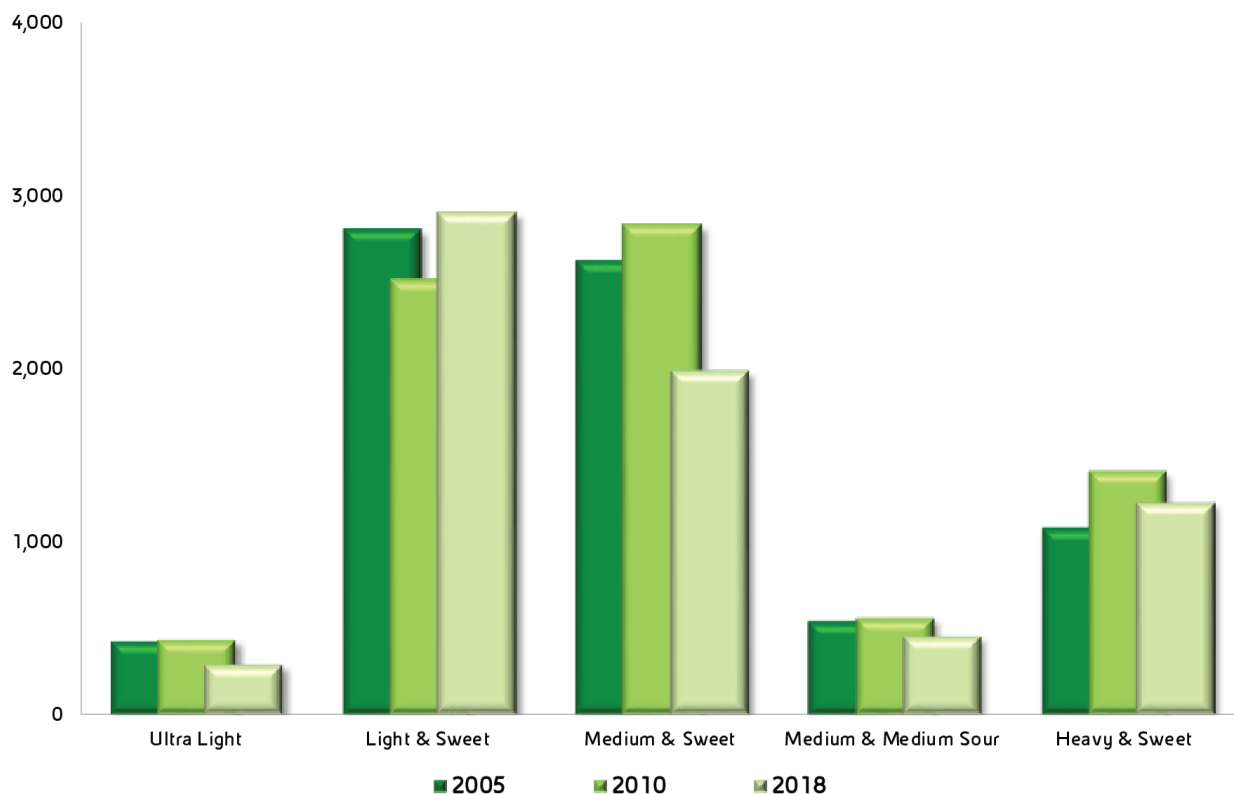
^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

^(**) 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 IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Australia	721	456	479	322	290	263	284		
Ultra Light	311	50	85	68	63	52	46	43.1%	16.2%
Light & Sweet	372	364	220	163	152	150	201	51.6%	70.7%
Heavy & Sweet	38	42	174	91	75	61	37	5.3%	13.0%
Brunei	195	206	169	127	121	113	111		
Ultra Light	16	18	16	11	12	13	12	8.2%	10.7%
Light & Sweet	118	149	118	14	14	43	17	60.6%	15.4%
Medium & Sweet	6	3	35	101	95	57	82	3.1%	73.9%
Heavy & Sweet	55	36						28.1%	
China	3,259	3,594	4,020	4,222	3,910	3,788	3,716		
Light & Sweet	249	394	318	273	708	716	820	7.6%	22.1%
Light & Medium Sour	31	33				32	31	1.0%	0.8%
Light & Sour			35	32					
Medium & Sweet	1,912	1,913	2,144	2,287	1,565	1,511	1,367	58.7%	36.8%
Medium & Medium Sour	517	536	554	532	462	452	449	15.9%	12.1%
Medium & Sour	17	19	19	17	45	11	11	0.5%	0.3%
Heavy & Sweet	533	698	950	1,080	1,130	1,066	1,038	16.4%	27.9%
East Timor		100	88	60	49	40	33		
Ultra light		100	88	60	49	40	33		100.0%
India	659	663	749	760	734	733	707		
Light & Sweet	552	569	654	673	650	644	619	83.8%	87.6%
Medium & Sweet	40	27	23	20	19	20	20	6.1%	2.8%
Heavy & Sweet	67	67	72	67	65	69	68	10.2%	9.6%
Indonesia	1,415	1,061	945	776	831	802	770		
Ultra Light	157	162	166	126	99	102	102	11.1%	13.2%
Light & Sweet	463	341	336	264	290	269	259	32.7%	33.6%
Medium & Sweet	479	321	238	235	319	333	327	33.9%	42.5%
Heavy & Sweet	316	238	206	150	123	97	82	22.3%	10.7%
Malaysia	663	726	648	653	667	648	647		
Ultra Light	53	88	75	70	70	70	68	7.9%	10.5%
Light & Sweet	428	478	335	469	511	492	496	64.5%	76.6%
Medium & Sweet	183	161	238	114	86	86	83	27.5%	12.8%

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Countries^(*)

(thousand barrels/day)

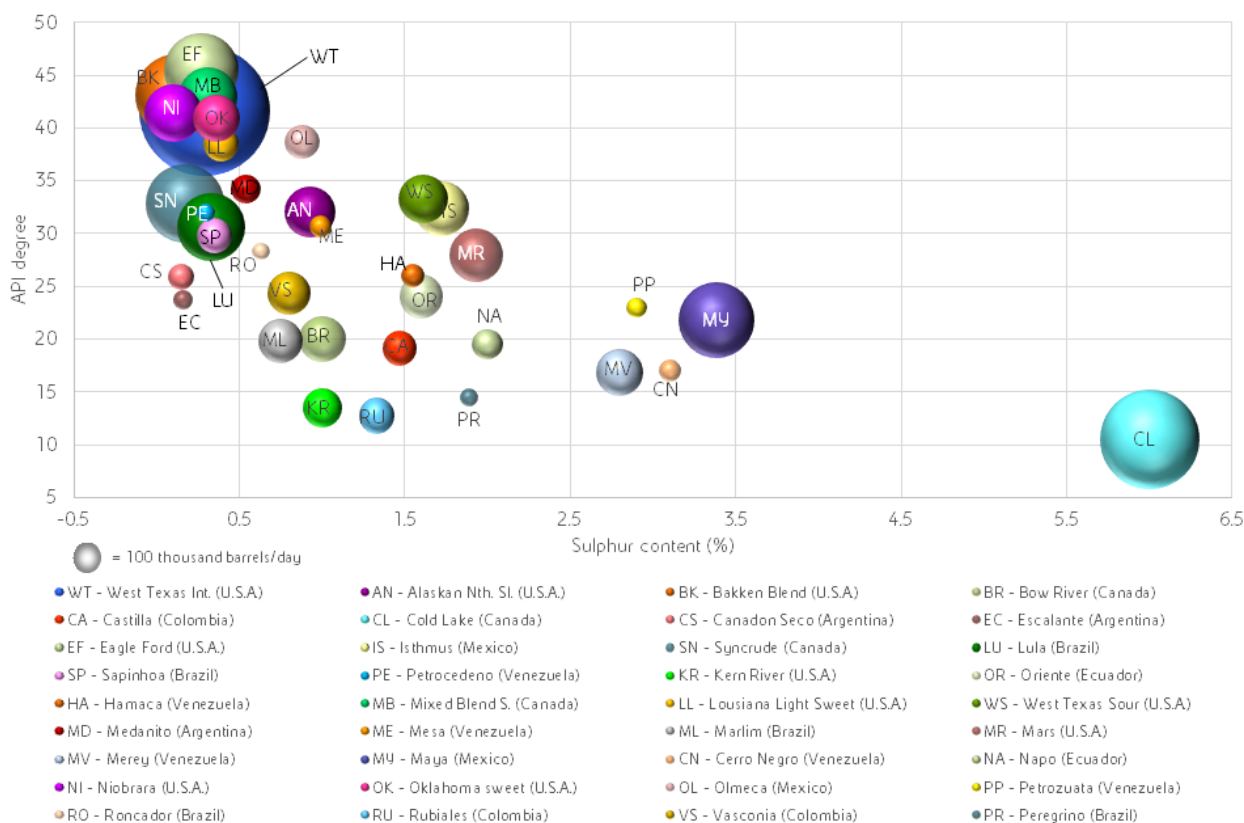
	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
New Zealand	35	29	55	41	35	31	24		
Light & Sweet	35	29	39	34	29	26	20	100.0%	80.4%
Medium & Sweet			16	7	6	6	5		19.6%
Pakistan	58	66	66	87	85	82	80		
Light & Sweet	58	66	66	87	85	82	80	100.0%	100.0%
Papua New Guinea	64	54	32	58	56	50	45		
Ultra Light		1		31	30	29	31		68.6%
Light & Sweet	64	53	32	27	26	21	14	100.0%	31.4%
Thailand	120	196	242	248	258	240	228		
Light & Sweet	120	196	242	248	258	240	228	100.0%	100.0%
Vietnam	325	358	299	333	304	272	242		
Light & Sweet	68	160	158	163	153	161	148	21.0%	60.9%
Medium & Sweet	257	198	141	170	151	111	95	79.0%	39.1%

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

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Americas (A)	17,198	17,433	17,520	22,630	21,596	21,967	23,187		
Ultra Light	64	183	145	632	645	612	683	0.4%	2.9%
Light & Sweet	3,377	2,701	2,954	6,600	5,911	6,467	7,983	19.6%	34.4%
Light & Medium Sour	504	144	324	282	279	223	233	2.9%	1.0%
Light & Sour									
Medium & Sweet	883	1,409	1,506	2,266	2,388	2,681	2,873	5.1%	12.4%
Medium & Medium Sour	1,632	1,637	1,711	1,306	1,435	1,394	1,371	9.5%	5.9%
Medium & Sour	3,994	3,623	3,558	3,402	3,183	2,929	2,509	23.2%	10.8%
Heavy & Sweet	320	265	325	288	260	249	297	1.9%	1.3%
Heavy & Medium Sour	1,193	1,494	1,749	1,713	1,427	1,318	1,358	6.9%	5.9%
Heavy & Sour	4,893	5,615	4,938	5,860	5,748	5,744	5,687	28.4%	24.5%
Unassigned production (B)	338	363	311	281	320	350	191	2.0%	0.8%
% Unassigned production (B/A)	2.0	2.1	1.8	1.2	1.5	1.6	0.8		

Quality and Production Volume of Main Crudes 2018^(**) (selected years, thousand barrels/day)

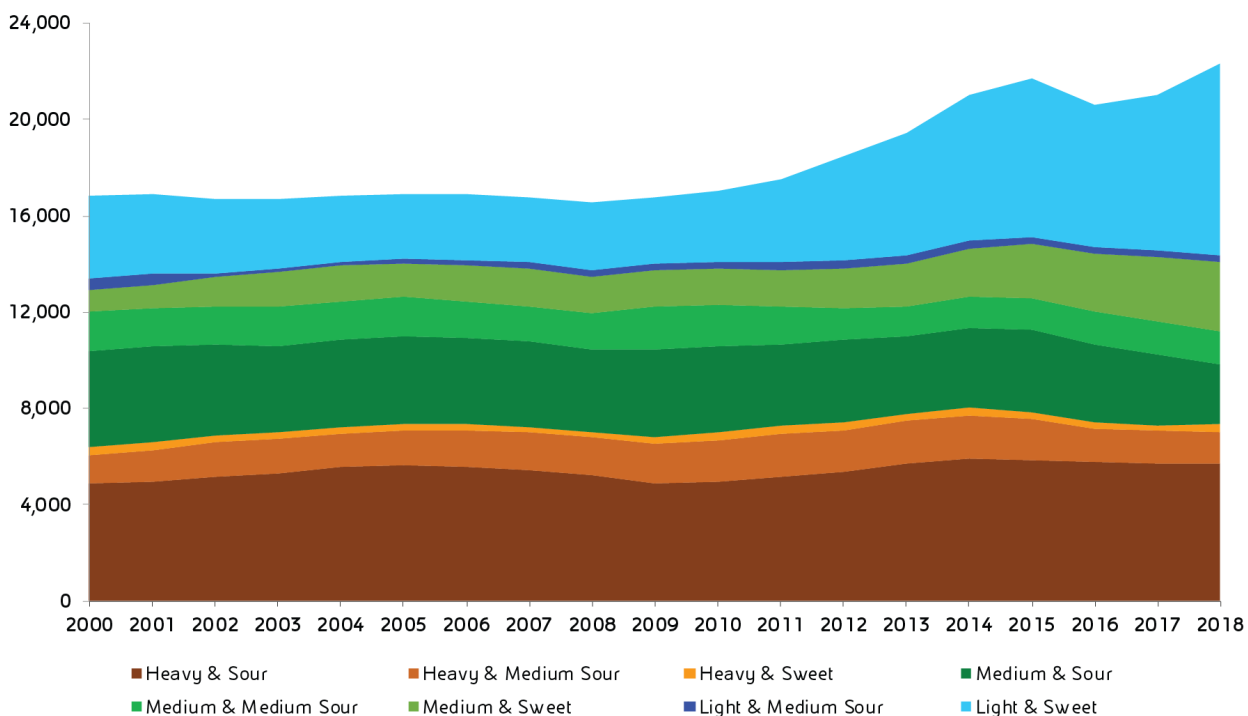


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^(**) Data source: Eni.

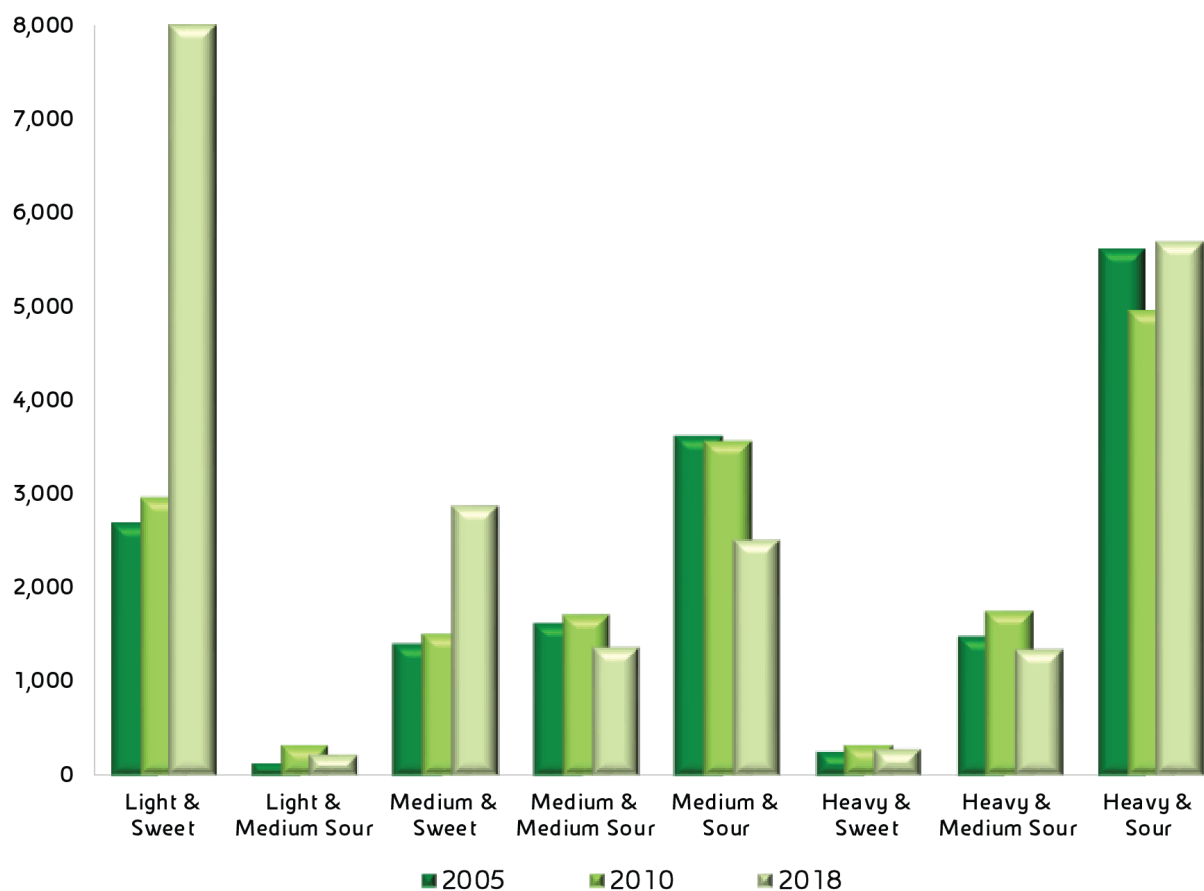
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Argentina	801	702	589	532	511	479	489		
Ultra light		40	22	21	22	22	23		4.6%
Light & Sweet	120	99	85	77	73	69	70	15.0%	14.3%
Medium & Sweet				21	27	35	55		11.3%
Medium & Medium Sour	360	298	255	210	193	171	155	45.0%	31.7%
Heavy & Sweet	320	265	227	205	196	183	187	40.0%	38.1%
Brazil	1,231	1,634	2,055	2,436	2,436	2,510	2,622		
Light & Sweet				6	17	14	12		0.4%
Light & Medium Sour			4	5	13	12	25		1.0%
Medium & Sweet			20	659	842	1,053	1,207		46.0%
Medium & Medium Sour	271	449	583	321	343	308	244	22.0%	9.3%
Heavy & Sweet			98	83	65	66	111		4.2%
Heavy & Medium Sour	960	1,184	1,332	1,278	1,084	984	958	78.0%	36.6%
Heavy & Sour			19	84	72	73	65		2.5%
Canada	2,015	2,372	2,724	3,678	3,679	3,977	4,302		
Light & Sweet	832	728	681	670	579	600	655	41.3%	15.2%
Medium & Sweet	334	674	939	1,046	1,045	1,148	1,185	16.6%	27.6%
Medium & Medium Sour				127	169	176	143		3.3%
Heavy & Medium Sour						2	62		1.4%
Heavy & Sour	849	970	1,104	1,835	1,886	2,051	2,257	42.1%	52.5%
<i>Memo: Syncrude production is included in Medium & Sweet</i>	<i>334</i>	<i>568</i>	<i>818</i>	<i>1,001</i>	<i>1,004</i>	<i>1,105</i>	<i>1,160</i>	<i>16.6%</i>	<i>27.8%</i>
<i>Memo: bitumen production is included in Heavy & Sour</i>	<i>288</i>	<i>445</i>	<i>680</i>	<i>1,406</i>	<i>1,485</i>	<i>1,647</i>	<i>1,857</i>	<i>14.3%</i>	<i>41.4%</i>
Colombia	684	526	786	1,006	880	854	865		
Light & Sweet	340	135	51	49	53	49	46	49.7%	5.3%
Medium & Sweet	105	74	61	42				15.4%	
Medium & Medium Sour					37	34	33		3.9%
Heavy & Medium Sour	233	310	417	436	343	332	337	34.0%	39.0%
Heavy & Sour	6	8	257	479	447	439	449	0.9%	51.8%

^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	Share of total	
								2000	2018
Ecuador	401	532	466	541	547	531	523		
Heavy & Sour	401	532	466	541	547	531	523	100.0%	100.0%
Mexico	3,012	3,333	2,577	2,267	2,154	1,948	1,833		
Light & Medium Sour	504	144	320	277	266	210	208	16.7%	11.3%
Medium & Sour	733	802	834	838	785	689	553	24.3%	30.1%
Heavy & Sour	1,775	2,387	1,422	1,152	1,103	1,049	1,073	58.9%	58.5%
United States	5,822	5,184	5,478	9,431	8,831	9,352	10,963		
Ultra light	21	11	28	518	537	514	597	0.4%	5.4%
Light & Sweet	2,085	1,739	2,137	5,798	5,188	5,736	7,201	35.8%	65.7%
Medium & Sweet	444	505	371	389	376	362	372	7.6%	3.4%
Medium & Medium Sour	1,001	891	873	649	693	705	713	17.2%	6.5%
Medium & Sour	1,472	1,392	1,495	1,527	1,517	1,532	1,616	25.3%	14.7%
Heavy & Sour	800	646	574	551	519	502	464	13.7%	4.2%
Venezuela	2,894	2,788	2,535	2,460	2,239	1,966	1,398		
Ultra light	43	131	96	94	86	76	64	1.5%	4.5%
Medium & Sweet		156	114	109	98	84	54		3.9%
Medium & Medium Sour							83		5.9%
Medium & Sour	1,789	1,429	1,228	1,037	881	708	341	61.8%	24.4%
Heavy & Sour	1,062	1,071	1,097	1,220	1,173	1,099	857	36.7%	61.3%

^(*) Data source: Eni's elaborations on IEA (2019) *Monthly Oil Data Services* data. All rights reserved.

Oil – Refining Industry

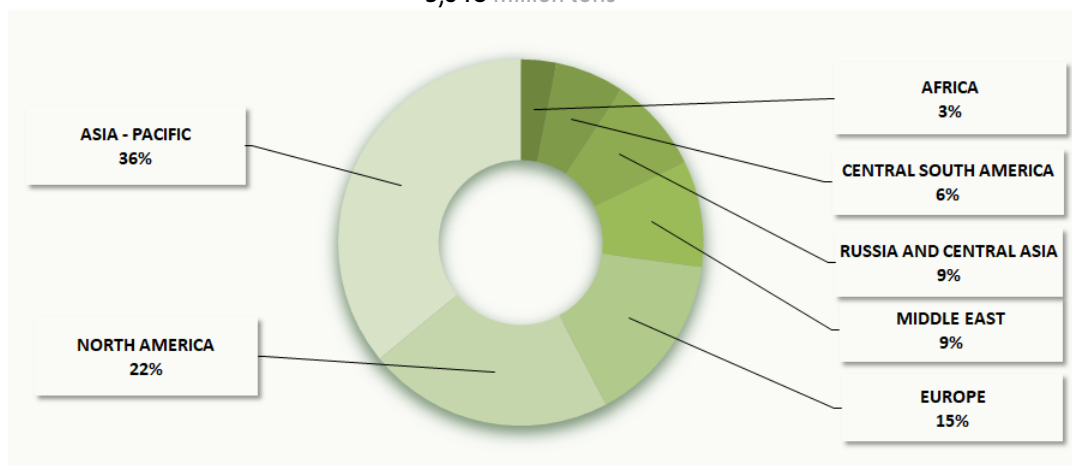
Refining Capacity

Areas and Aggregates^(*)

	2000						2005					
	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio FCC eqv. (%)	NCI	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio FCC eqv. (%)	NCI
Europe ^(**)	148	852	17,058	268	31%	8.3	137	873	17,476	298	34%	8.7
Russia and Central Asia	58	404	8,123	55	14%	5.8	61	370	7,438	63	17%	6.7
Middle East	46	325	6,527	52	16%	5.4	47	361	7,319	61	17%	5.5
Africa	47	142	2,837	17	12%	4.9	46	158	3,154	27	17%	5.6
Asia - Pacific	235	1113	22,297	391	35%	6.9	260	1,236	24,775	544	44%	7.4
Americas	256	1313	26,267	790	60%	10.0	253	1,358	27,174	862	63%	10.2
<i>North America</i>	182	997	19,942	662	66%	10.9	175	1,034	20,686	716	69%	11.2
<i>Central South America</i>	74	316	6,325	128	41%	7.1	78	324	6,488	146	45%	7.3
World	790	4,149	83,109	1,573	38%	7.9	804	4,356	87,336	1,855	43%	8.2

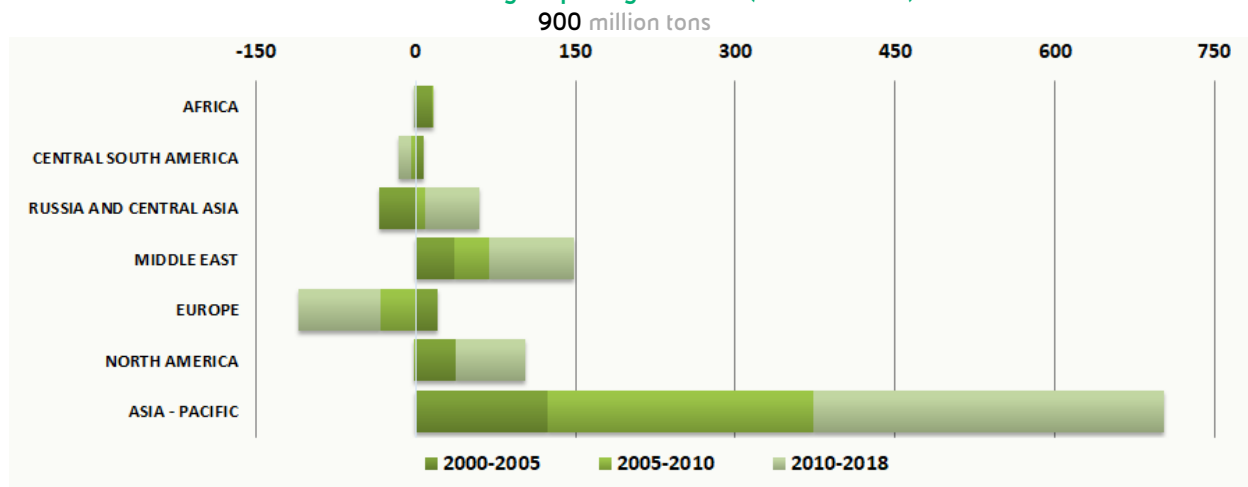
World Primary Capacity (2018)

5,048 million tons



World Primary Capacity Growth (2000-2018)

900 million tons

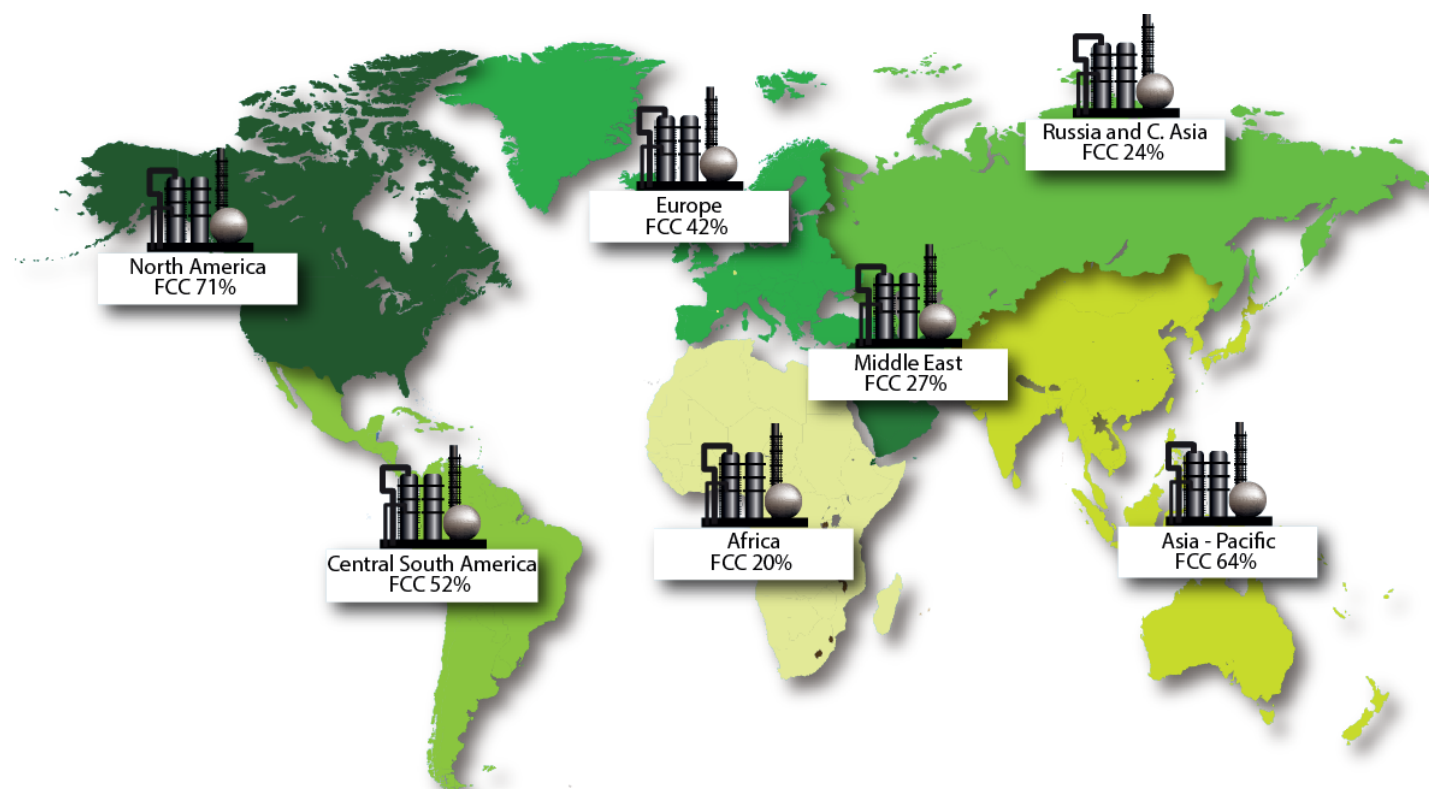


^(*) Data source: Eni's calculations on Icis Consulting data.

^(**) Belarus and Ukraine aren't included in Europe but in Russia and Central Asia.

2010						2018						
Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio		Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio		
				FCC eqv. (%)	NCI					FCC eqv. (%)	NCI	
128	840	16,812	309	37%	8.9	109	763	15,257	320	42%	9.2	Europe (**)
67	378	7,614	66	18%	6.9	73	430	8,662	103	24%	7.5	Russia and Central Asia
58	393	8,003	79	20%	5.8	61	474	9,656	129	27%	6.9	Middle East
46	159	3,191	28	17%	5.7	48	159	3,188	31	20%	5.9	Africa
298	1,486	29,802	793	53%	8.3	329	1,814	36,448	1,153	64%	9.6	Asia - Pacific
242	1,353	27,087	881	65%	10.6	240	1,409	28,244	940	67%	10.8	Americas
167	1,034	20,688	729	70%	11.6	165	1,101	22,060	781	71%	11.6	North America
75	319	6,399	153	48%	7.4	75	309	6,184	160	52%	7.8	Central South America
839	4,610	92,509	2,156	47%	8.7	860	5,048	101,455	2,677	53%	9.4	World

2018 Complexity ratio (FCC eqv. %)



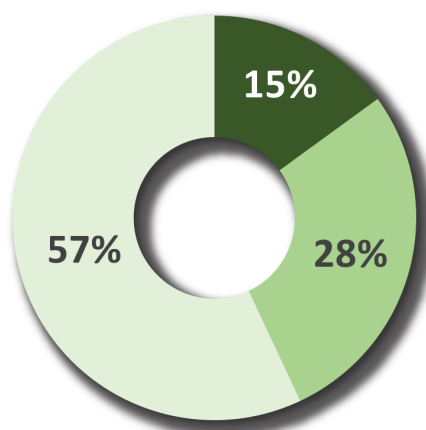
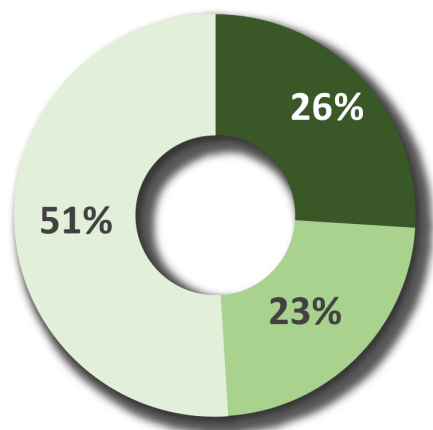
Primary Capacity by Cluster of Companies^(*)

2000

2018

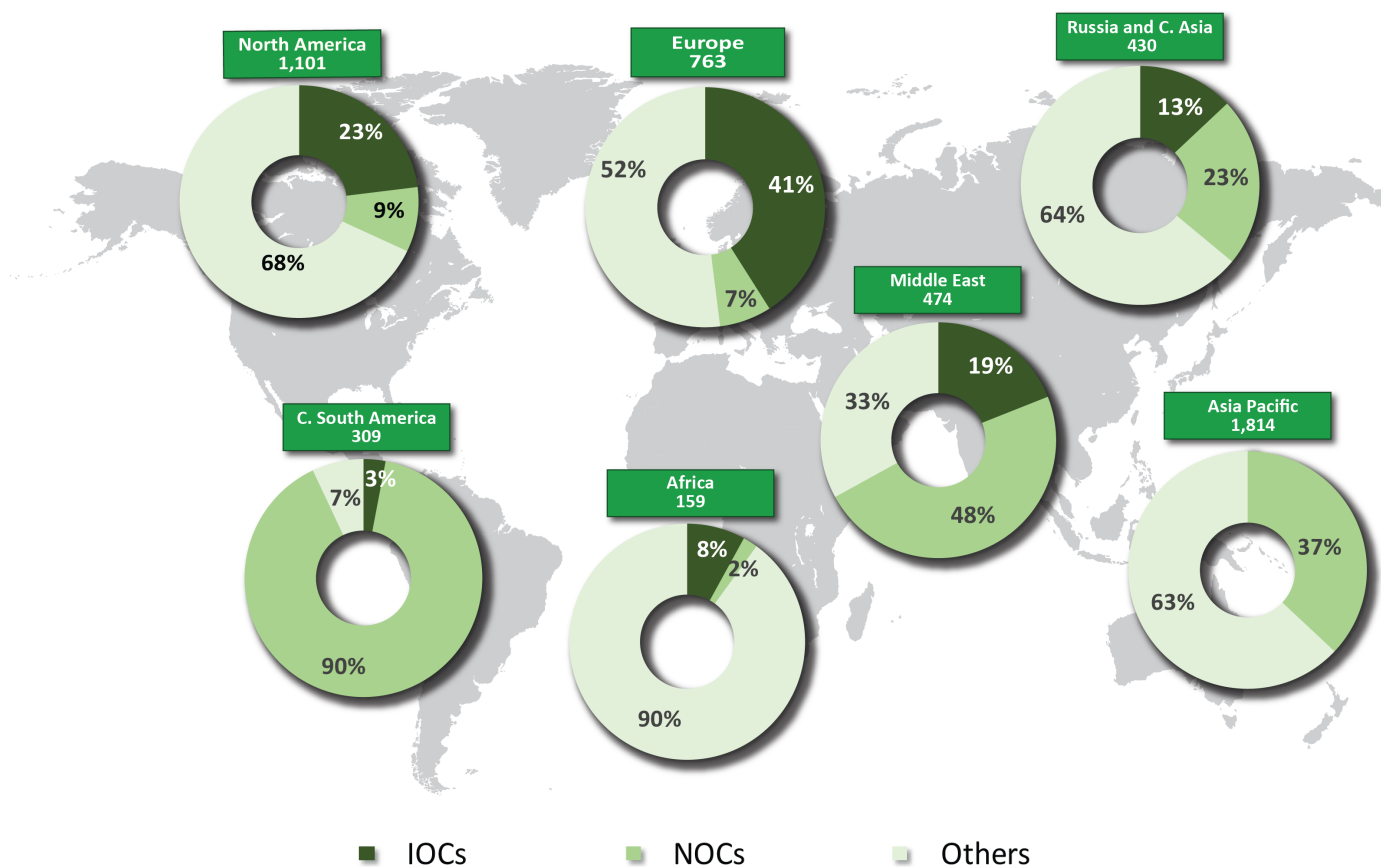
World: 4,149 million tons

World: 5,048 million tons



2018

(million tons)



^(*) IOCs: BP, Chevron, Eni, ExxonMobil, Shell, Total.

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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