



O&GR

volume 1

World Oil Review 2020

World Oil Review 2020

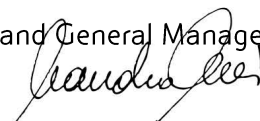
COVID-19 pandemic represents the biggest shock to the global economy and energy industry in more than seven decades. Energy capital flows are being reshaped by the crisis but contributing to a “just transition” remains a strategic priority for Eni and the whole industry.

In the long term, oil is meant to reduce its importance as an energy source but for many years it will continue to play a significant role in **the world of energy**. At the same time gas will be one of the main sources of energy both in power, domestic use, industrial and transportation sector. The oil and gas industry has huge potential in terms of technical expertise, management and financial resources in order to reduce its greenhouse gas emissions and ensuring an affordable availability of predictable energy. The **World Oil, Gas and Renewables Review** (now in its 19th edition) aims to be a useful tool for a deeper understanding of the fundamentals of the energy sector. It is split in two volumes. This 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**, is dedicated to natural gas and renewables sources.

The main highlights of the World Oil Review are the following:

- **In 2019 Brent average price (64 \$/b) was roughly 7 \$/b lower than in 2018.** Rising geopolitical tensions and concerns about US-China trade had little impact on oil supply/demand balance and on Brent prices.
- **Global oil demand continued to grow in 2019** but at lower pace respect to the last 10 years (0.8% vs 1.4%). The protracted strong momentum in non-OECD countries (China and India grew respectively at 5.3% and 2.8%) was countered by the decline of OECD. Europe demand remained in structural decline while in US it was almost flat.
- **“Zero growth” of world oil production in 2019**, as OPEC+ group cuts counterbalanced US growth. US production rose by 11%, further eroding OPEC’s market share. US turned into a net oil exporter in September for the first time since 1947.
- During 2019 the OPEC+ extended its production agreement with additional cuts. US sanctions on Iran and on Venezuela further reduced OPEC production. **As result OPEC supply decreased by 5% vs 2018.**
- **Crude quality reported a strong discontinuity in 2019** with a great reduction of medium & sour crudes, which contributed to a lighter average produced barrel. The quality balance showed a reduced supply in the medium heavy crudes (OPEC’s cuts, Iran and Venezuela) and a further appreciation of the relative price differentials.
- **Asia Pacific leads the global refining capacity growth** accounting for almost 90% of the 1.5 Mb/d increase versus 2018.

Claudio Descalzi
Chief Executive Officer
and General Manager



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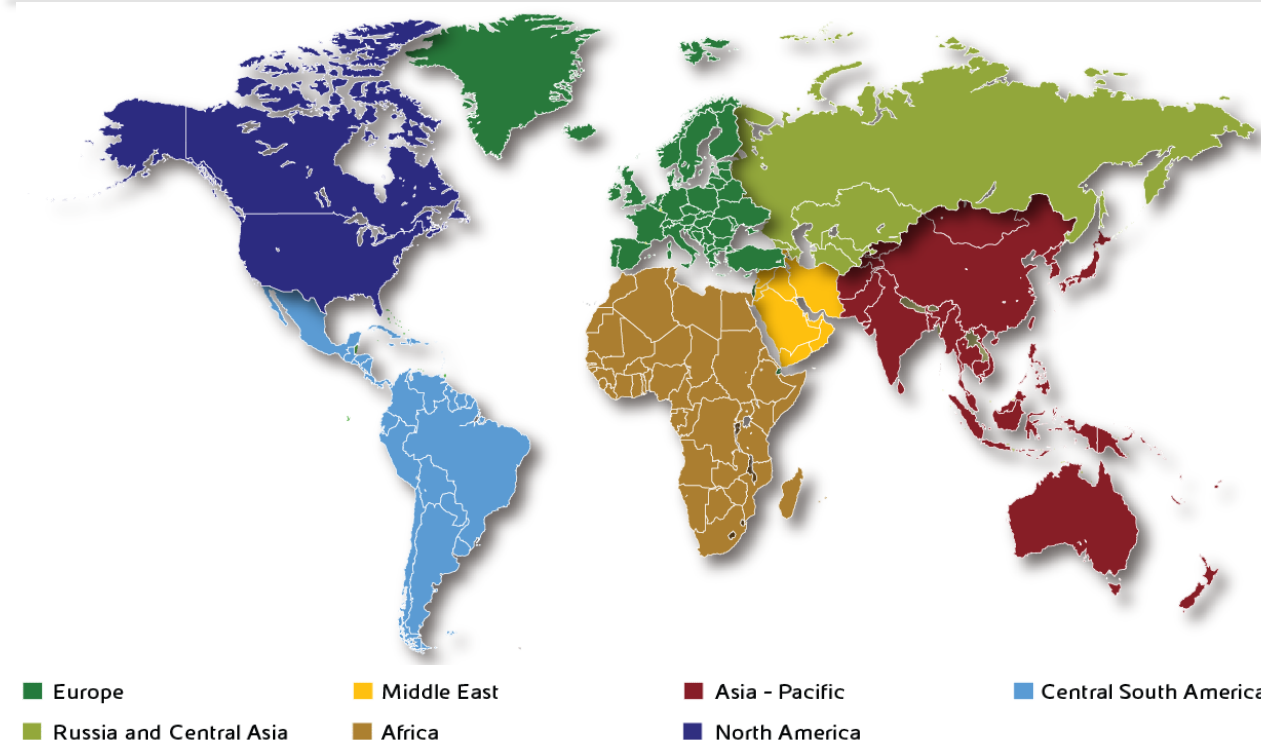
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List of Countries:

- **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, South Sudan, 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, Guyana, Haiti, Honduras, Jamaica, Mexico, 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, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom and United States.
- **OPEC:** Algeria, Angola, Congo, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, 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, Positioning and Medium-Long Term Plan Department.

Notes and Methods

The sources of the data are: CME, DECC, EIA DOE, Enerdata, Energy Intelligence, ICE, ICIS Consulting, International Energy Agency, IHS Global Insight, Italian Ministry for Economic Development, Norwegian Petroleum Directorate, Oil & Gas Journal, OPEC, S&P Global Platts, 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.

In some chapters, data for Sudan also include South Sudan data.

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: $\text{API gravity} = (141.5/\text{SG at } 60^\circ\text{F}) - 131.5$, 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 downstream laboratories" 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 Ratio - 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

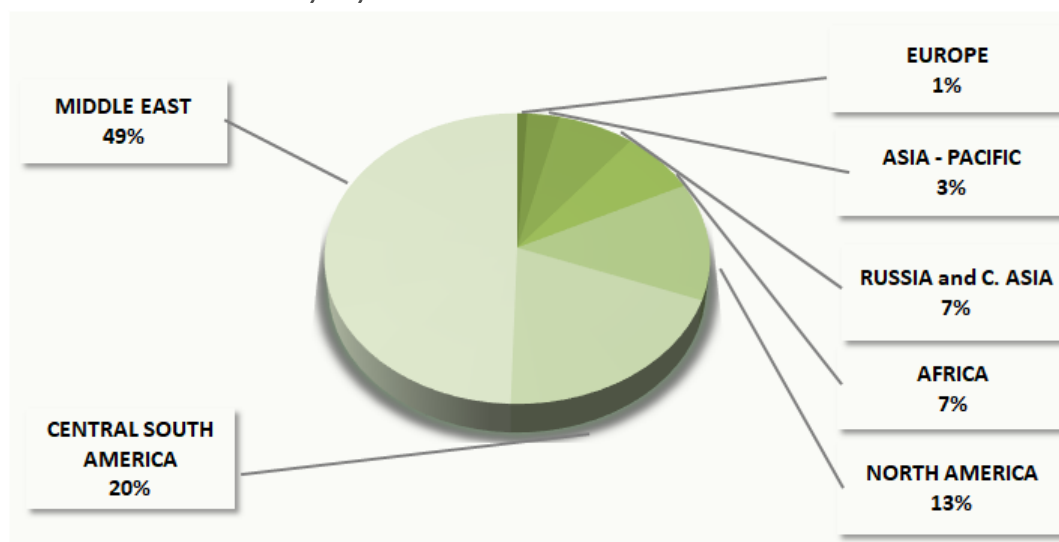
Areas and Aggregates^(*)

(million barrels as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	21,348	18,105	14,658	14,869	14,165	14,589	15,475	15,379	-0.6%	-1.7%
Russia and Central Asia	56,384	77,228	98,320	118,333	118,329	118,301	118,301	118,301	0.0%	4.0%
Middle East	692,991	751,691	794,654	802,913	807,790	804,658	803,220	847,775	5.5%	1.1%
Africa	93,161	111,540	124,832	121,990	122,260	120,865	119,910	119,451	-0.4%	1.3%
Asia - Pacific	38,876	42,850	48,617	50,491	49,446	49,186	49,529	49,671	0.3%	1.3%
Americas	330,973	319,986	539,334	546,637	544,633	552,284	556,544	562,015	1.0%	2.8%
- North America	205,021	203,063	200,029	206,742	205,741	214,637	217,821	224,273	3.0%	0.5%
- Central South America	125,953	116,923	339,305	339,894	338,891	337,647	338,723	337,741	-0.3%	5.3%
World	1,233,734	1,321,400	1,620,416	1,655,233	1,656,623	1,659,882	1,662,980	1,712,592	3.0%	1.7%
European Union	8,775	7,237	6,212	5,716	5,321	5,261	5,444	5,448	0.1%	-2.5%
MENA	744,359	809,706	858,877	867,376	872,163	868,972	867,284	911,839	5.1%	1.1%
OECD	257,747	236,602	230,685	233,493	230,839	239,437	242,810	248,487	2.3%	-0.2%
NON OECD	975,986	1,084,798	1,389,731	1,421,740	1,425,784	1,420,445	1,420,170	1,464,105	3.1%	2.2%
OPEC	837,666	904,434	1,172,650	1,187,658	1,194,236	1,190,565	1,189,419	1,233,534	3.7%	2.1%
NON OPEC	396,068	416,966	447,766	467,575	462,388	469,317	473,561	479,058	1.2%	1.0%

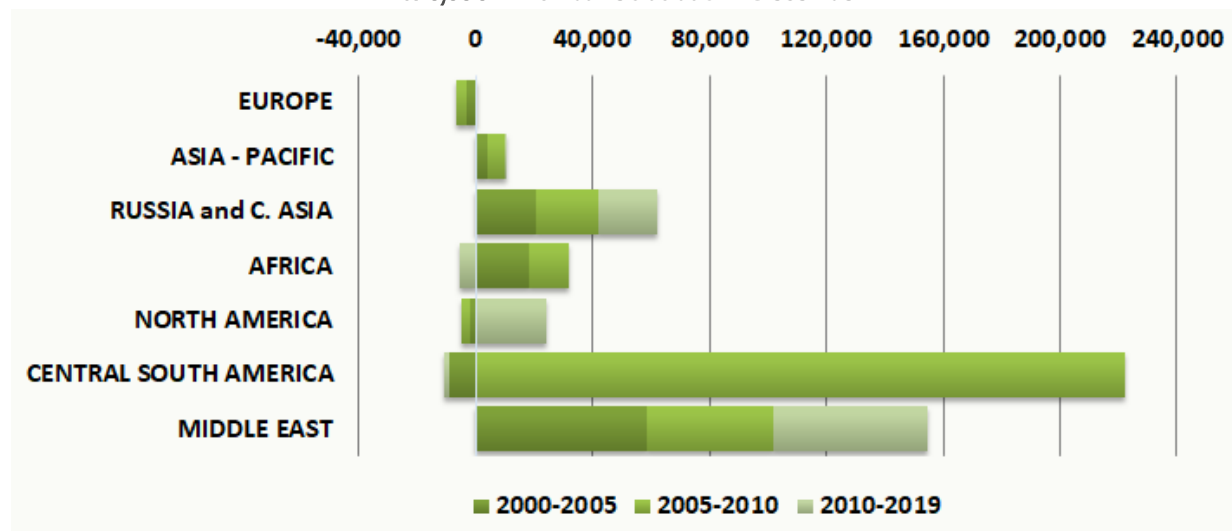
World Oil Reserves (2019)

1,712,592 million barrels as at 31st December



World Oil Reserves Growth (2000-2019)

478,858 million barrels as at 31st December



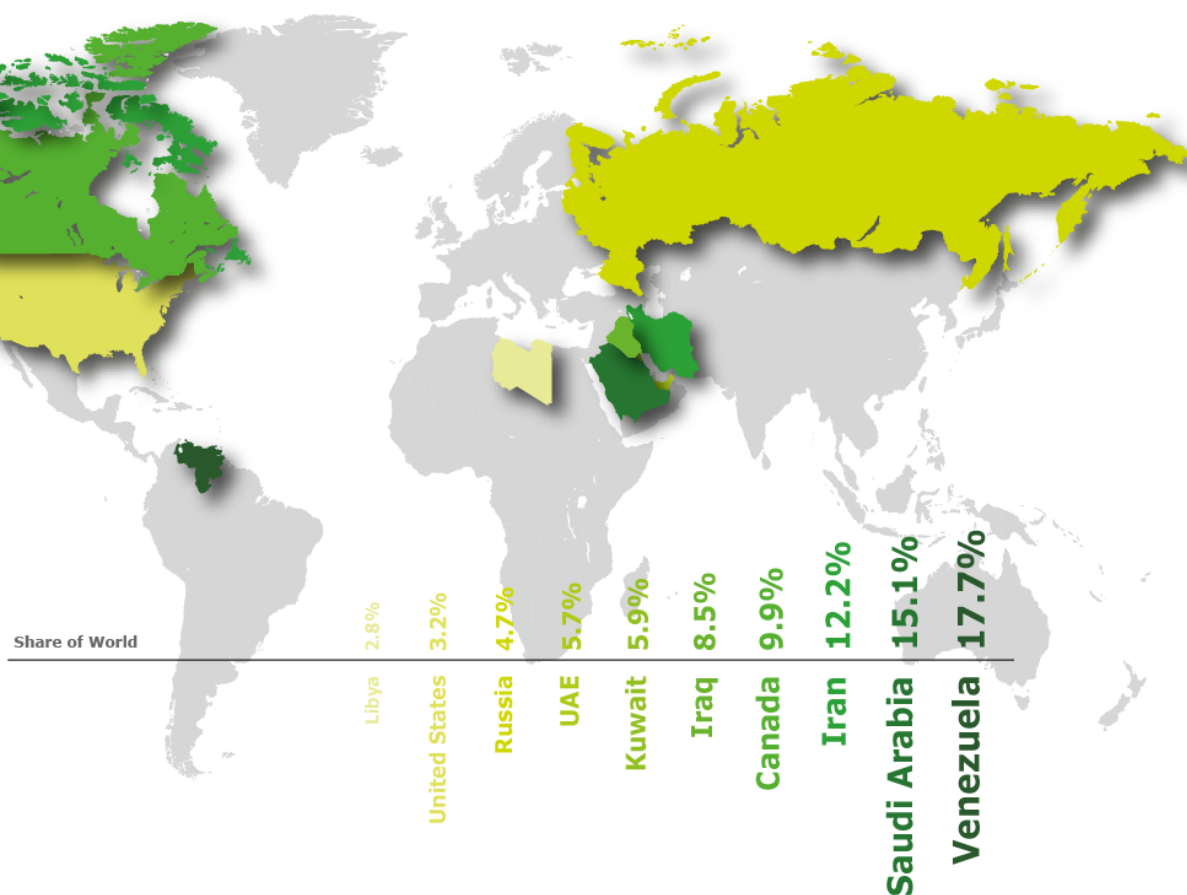
^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data* and other official data sources.

The World Top 10 Reserves Holders^(*)

(million barrels as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Venezuela	76,848	80,012	296,501	300,878	302,250	302,809	303,806	303,806	0.0%	7.5%
Saudi Arabia	262,766	264,211	264,516	266,455	266,208	266,260	267,026	258,600	-3.2%	-0.1%
Iran	99,530	136,270	151,170	158,400	157,200	155,600	155,600	208,600	34.1%	4.0%
Canada	181,504	180,044	174,848	171,512	170,528	172,647	170,768	169,692	-0.6%	-0.4%
Iraq	112,500	115,000	143,100	142,503	148,766	147,223	145,019	145,019	0.0%	1.3%
Kuwait	96,500	101,500	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	97,800	0.0%	0.0%
Russia	48,573	60,000	60,000	80,000	80,000	80,000	80,000	80,000	0.0%	2.7%
United States	23,517	23,019	25,181	35,230	35,213	41,990	47,053	54,581	16.0%	4.5%
Libya	36,000	41,464	47,097	48,363	48,363	48,363	48,363	48,363	0.0%	1.6%
The World Top 10	1,035,538	1,099,320	1,361,713	1,402,641	1,407,828	1,414,192	1,416,935	1,467,961	3.6%	1.9%
Rest of the world	198,196	222,080	258,703	252,591	248,795	245,691	246,045	244,631	-0.6%	1.1%
World	1,233,734	1,321,400	1,620,416	1,655,233	1,656,623	1,659,882	1,662,980	1,712,592	3.0%	1.7%

The World Top 10 (2019)



^(*) 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	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	21,348	18,105	14,658	14,869	14,165	14,589	15,475	15,379	-0.6%	-1.7%
Albania	176	200	289	319	310	246	246	219	-10.9%	1.2%
Austria	92	63	73	80	78	62	62	60	-2.6%	-2.2%
Belarus	211	200	287	317	308	244	244	244	0.0%	0.8%
Bulgaria	16	16	16	16	16	16	16	16	0.0%	0.0%
Croatia	98	70	106	117	114	90	90	90	0.0%	-0.4%
Czech Republic	16	15	22	24	23	19	19	19	0.0%	0.8%
Denmark	1,113	1,277	899	491	440	440	440	454	3.0%	-4.6%
France	155	159	147	162	157	125	125	113	-9.5%	-1.6%
Germany	405	370	400	442	430	341	341	308	-9.6%	-1.4%
Greece	11	7	15	16	16	12	12	12	0.0%	0.8%
Hungary	117	104	39	43	42	33	33	30	-10.3%	-6.9%
Italy (**)	577	443	559	595	521	571	554	532	-3.9%	-0.4%
Lithuania	13	12	17	19	19	15	15	15	0.0%	0.8%
Netherlands	114	107	145	160	156	123	123	190	54.2%	2.7%
Norway	11,366	9,688	6,804	7,340	7,082	7,931	8,635	8,519	-1.3%	-1.5%
Poland	123	97	139	154	149	118	118	114	-4.0%	-0.4%
Romania	1,170	458	600	600	600	600	600	600	0.0%	-3.5%
Serbia	83	79	113	125	121	96	96	96	0.0%	0.8%
Slovakia	10	9	13	14	14	11	11	11	0.0%	0.8%
Spain	22	159	218	240	234	185	185	185	0.0%	11.8%
Turkey	315	303	380	420	408	323	323	365	13.0%	0.8%
Ukraine	421	399	573	633	615	487	487	487	0.0%	0.8%
United Kingdom	4,725	3,870	2,805	2,542	2,313	2,500	2,700	2,700	0.0%	-2.9%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	56,384	77,228	98,320	118,333	118,329	118,301	118,301	118,301	0.0%	4.0%
Russia	48,573	60,000	60,000	80,000	80,000	80,000	80,000	80,000	0.0%	2.7%
Azerbaijan	1,178	7,000	7,000	7,000	7,000	7,000	7,000	7,000	0.0%	9.8%
Georgia	37	35	51	56	54	43	43	43	0.0%	0.8%
Kazakhstan	5,400	9,000	30,000	30,000	30,000	30,000	30,000	30,000	0.0%	9.4%
Kyrgyzstan	43	40	58	64	62	49	49	49	0.0%	0.8%
Tajikistan	13	12	17	19	19	15	15	15	0.0%	0.8%
Turkmenistan	546	546	600	600	600	600	600	600	0.0%	0.5%
Uzbekistan	594	594	594	594	594	594	594	594	0.0%	0.0%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	692,991	751,691	794,654	802,913	807,790	804,658	803,220	847,775	5.5%	1.1%
Bahrain	160	126	181	200	195	154	154	135	-12.4%	-0.9%
Iran	99,530	136,270	151,170	158,400	157,200	155,600	155,600	208,600	34.1%	4.0%
Iraq	112,500	115,000	143,100	142,503	148,766	147,223	145,019	145,019	0.0%	1.3%
Israel	4	2	3	3	3	2	2	2	0.0%	-2.8%
Jordan	1	1	1	2	2	1	1	1	0.0%	1.3%
Kuwait	96,500	101,500	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	5,373	0.0%	-0.4%
Qatar	13,157	25,288	25,382	25,244	25,244	25,244	25,244	25,244	0.0%	3.5%
Saudi Arabia	262,766	264,211	264,516	266,455	266,208	266,260	267,026	258,600	-3.2%	-0.1%
Syria	2,325	3,000	2,500	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	97,800	0.0%	0.0%
Yemen	2,400	2,921	3,000	3,000	3,000	3,000	3,000	3,000	0.0%	1.2%

(*) Data source: Eni's estimates on Enerdata *Global 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	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	93,161	111,540	124,832	121,990	122,260	120,865	119,910	119,451	-0.4%	1.3%
Algeria	11,314	12,270	12,200	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	7,783	-4.6%	1.4%
Benin	9	8	12	13	12	10	10	10	0.0%	0.8%
Cameroon	426	404	290	320	311	247	247	247	0.0%	-2.8%
Chad	900	1,500	1,500	1,500	1,500	1,500	1,500	1,500	0.0%	2.7%
Congo	1,650	1,506	1,600	1,600	1,600	1,600	1,600	1,600	0.0%	-0.2%
Côte d'Ivoire	107	101	145	160	156	123	123	123	0.0%	0.8%
Dem. Rep. Congo	199	189	261	288	280	222	222	222	0.0%	0.6%
Egypt	3,627	3,720	4,500	3,473	3,384	3,325	3,075	3,075	0.0%	-0.9%
Equatorial Guinea	800	1,805	1,705	1,100	1,100	1,100	1,100	1,100	0.0%	1.7%
Gabon	2,420	2,146	2,000	2,000	2,000	2,000	2,000	2,000	0.0%	-1.0%
Ghana	18	17	677	684	681	681	681	681	0.0%	21.0%
Libya	36,000	41,464	47,097	48,363	48,363	48,363	48,363	48,363	0.0%	1.6%
Mauritania	0	0	145	160	156	123	123	123	0.0%	
Morocco	2	1	1	2	2	1	1	1	0.0%	-2.8%
Niger	0	0	0	147	147	144	144	144	0.0%	
Nigeria	29,000	36,220	37,200	37,062	37,453	37,453	36,972	36,890	-0.2%	1.3%
Sierra Leone	0	0	0	440	440	440	440	440	0.0%	
South Africa	30	16	22	24	23	19	19	19	0.0%	-2.5%
Sudan	262	563	5,000	1,500	1,500	1,500	1,500	1,500	0.0%	9.6%
Tunisia	425	560	425	425	425	425	425	425	0.0%	0.0%
Uganda	0	0	997	1,004	1,004	1,004	1,004	1,004	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific	38,876	42,850	48,618	50,491	49,446	49,186	49,529	49,671	0.3%	1.3%
Australia	4,944	3,718	3,831	3,985	3,985	3,995	3,995	3,995	0.0%	-1.1%
Bangladesh	61	28	41	45	44	35	35	35	0.0%	-2.9%
Brunei	1,230	1,105	1,100	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	25,842	26,190	26,190	0.0%	2.9%
India	5,290	5,919	4,818	4,535	4,409	4,339	4,518	4,704	4.1%	-0.6%
Indonesia	5,123	4,188	3,990	3,230	3,230	3,310	3,170	3,150	-0.6%	-2.5%
Japan	63	60	64	70	68	54	54	54	0.0%	-0.8%
Malaysia	3,390	5,290	5,799	5,907	5,030	4,727	4,727	4,727	0.0%	1.8%
Mongolia	15	15	15	257	257	257	257	257	0.0%	16.3%
Myanmar	53	50	73	80	78	62	62	62	0.0%	0.8%
New Zealand	135	53	87	96	93	74	61	54	-10.8%	-4.7%
Pakistan	222	292	454	501	487	386	386	377	-2.3%	2.8%
Papua New Guinea	384	242	128	141	137	109	109	100	-7.7%	-6.8%
Philippines	308	140	202	223	216	172	172	172	0.0%	-3.0%
Taiwan	4	2	3	3	3	2	2	2	0.0%	-2.8%
Thailand	515	453	442	396	349	323	293	293	0.0%	-2.9%
Vietnam	1,950	3,119	4,400	4,400	4,400	4,400	4,400	4,400	0.0%	4.4%

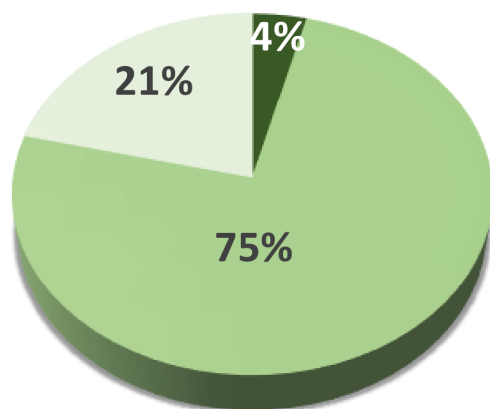
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	330,973	319,986	539,334	546,637	544,633	552,284	556,544	562,015	1.0%	2.8%
Argentina	2,974	2,180	2,524	2,395	2,162	2,017	2,387	2,387	0.0%	-1.2%
Barbados	3	3	3	3	3	2	2	2	-9.9%	-1.9%
Belize	0	0	10	11	11	9	9	9	0.0%	
Bolivia	423	445	675	745	724	574	574	654	13.9%	2.3%
Brazil	8,465	11,773	13,987	13,034	12,666	12,835	13,239	12,713	-4.0%	2.2%
Canada	181,504	180,044	174,848	171,512	170,528	172,647	170,768	169,692	-0.6%	-0.4%
Chile	160	151	218	240	234	185	185	185	0.0%	0.8%
Colombia	1,972	1,453	1,900	2,308	2,002	1,665	1,782	1,960	10.0%	0.0%
Cuba	302	757	180	199	193	153	153	153	0.0%	-3.5%
Ecuador	4,566	5,180	7,206	8,273	8,273	8,273	8,273	8,273	0.0%	3.2%
Guatemala	145	93	120	133	129	102	102	100	-2.4%	-1.9%
Mexico	28,260	12,882	13,796	9,632	8,652	7,695	7,010	6,311	-10.0%	-7.6%
Peru	906	1,078	1,240	1,187	1,225	985	859	859	0.0%	-0.3%
Suriname	79	112	116	128	125	99	99	87	-11.8%	0.5%
Trinidad and Tobago	851	803	830	728	243	243	243	243	0.0%	-6.4%
United States	23,517	23,019	25,181	35,230	35,213	41,990	47,053	54,581	16.0%	4.5%
Venezuela	76,848	80,012	296,501	300,878	302,250	302,809	303,806	303,806	0.0%	7.5%

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

Cluster of Companies^(*)

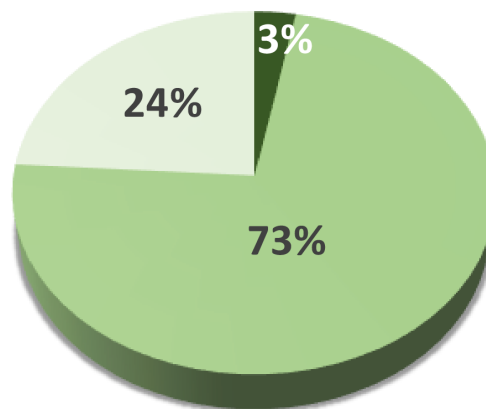
2000

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



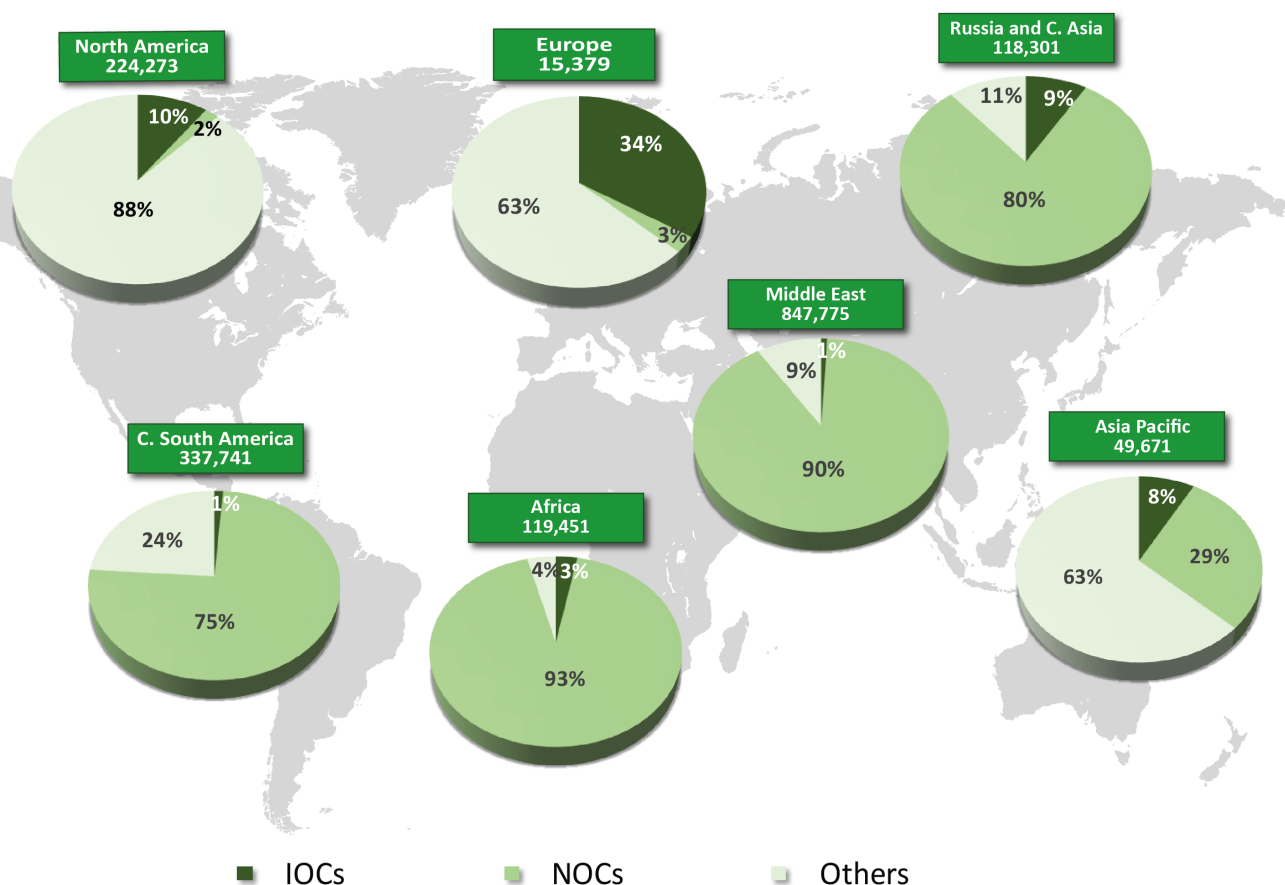
2019

World: 1,712,592 million barrels as at 31st December



2019

(million barrels as at 31st December)



^(*) **IOCs:** 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.

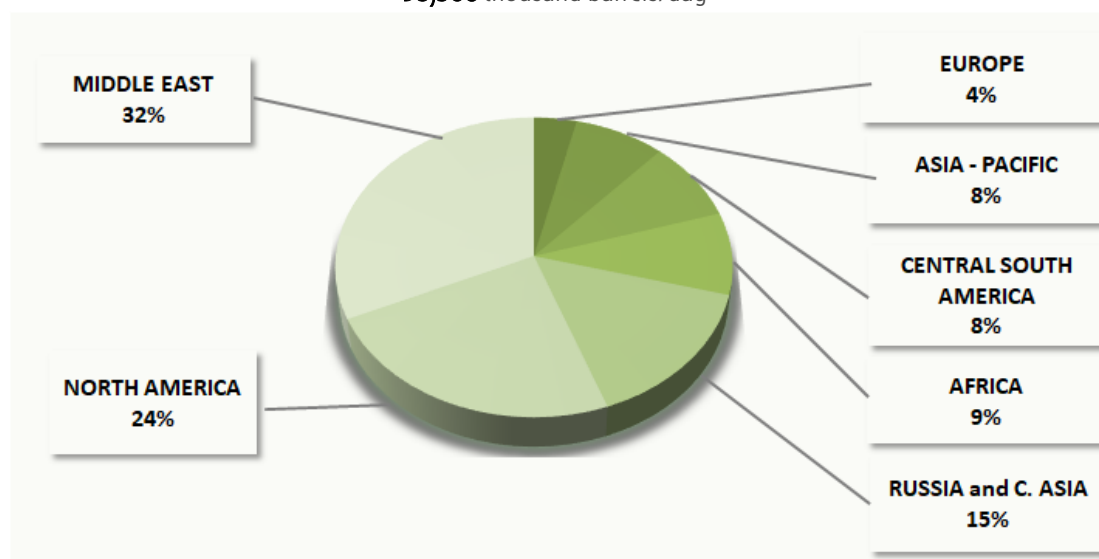
Areas and Aggregates^(*)

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	7,102	5,894	4,410	3,718	3,743	3,697	3,665	3,554	-3.0%	-3.6%
Russia and Central Asia	7,854	11,699	13,414	13,949	14,119	14,224	14,477	14,544	0.5%	3.3%
Middle East	23,512	25,562	25,367	29,801	31,548	31,143	31,748	30,276	-4.6%	1.3%
Africa	7,813	9,906	10,243	8,338	7,788	8,189	8,280	8,444	2.0%	0.4%
Asia - Pacific	7,833	7,972	8,363	8,290	7,966	7,740	7,590	7,587	0.0%	-0.2%
Americas	20,995	21,105	21,527	27,968	27,084	27,750	29,609	30,955	4.5%	2.1%
- North America	10,727	10,202	11,216	17,552	17,116	18,279	20,945	22,759	8.7%	4.0%
- Central South America	10,268	10,903	10,311	10,416	9,968	9,471	8,664	8,196	-5.4%	-1.2%
World	75,109	82,138	83,324	92,064	92,248	92,743	95,369	95,360	0.0%	1.3%
European Union	3,573	2,735	2,080	1,590	1,577	1,561	1,641	1,639	-0.1%	-4.0%
MENA	27,208	29,937	29,532	32,580	34,295	34,235	34,982	33,597	-4.0%	1.1%
OECD	21,862	20,181	18,994	24,097	23,539	24,398	26,894	28,532	6.1%	1.4%
NON OECD	53,247	61,957	64,330	67,967	68,709	68,345	68,475	66,828	-2.4%	1.2%
OPEC	30,594	34,469	33,777	36,602	37,671	37,401	37,383	35,516	-5.0%	0.8%
NON OPEC	44,515	47,669	49,547	55,462	54,577	55,342	57,986	59,844	3.2%	1.6%

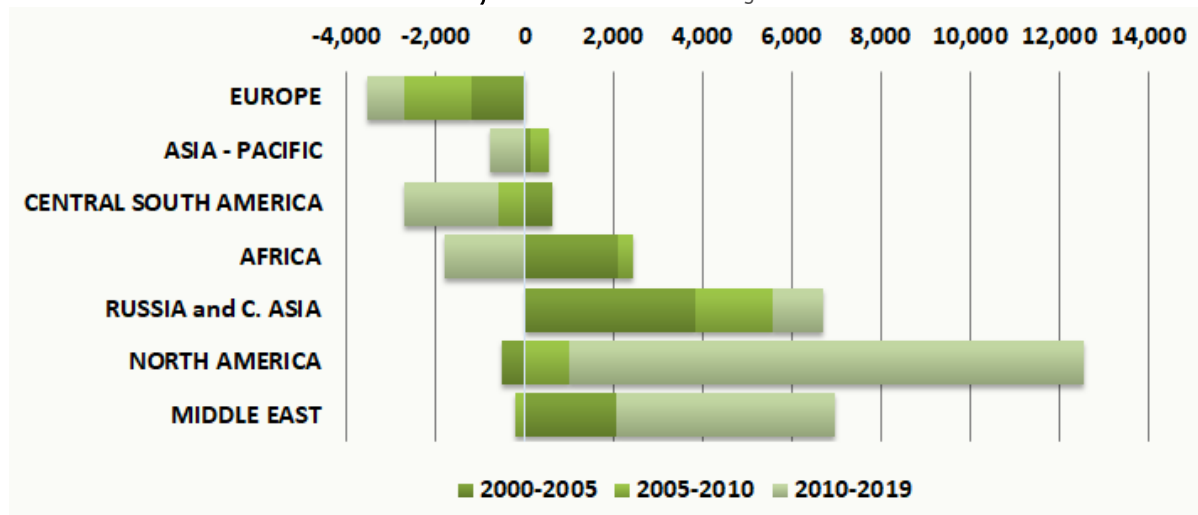
World Oil Production (2019)

95,360 thousand barrels/day



World Oil Production Growth (2000-2019)

20,251 thousand barrels/day



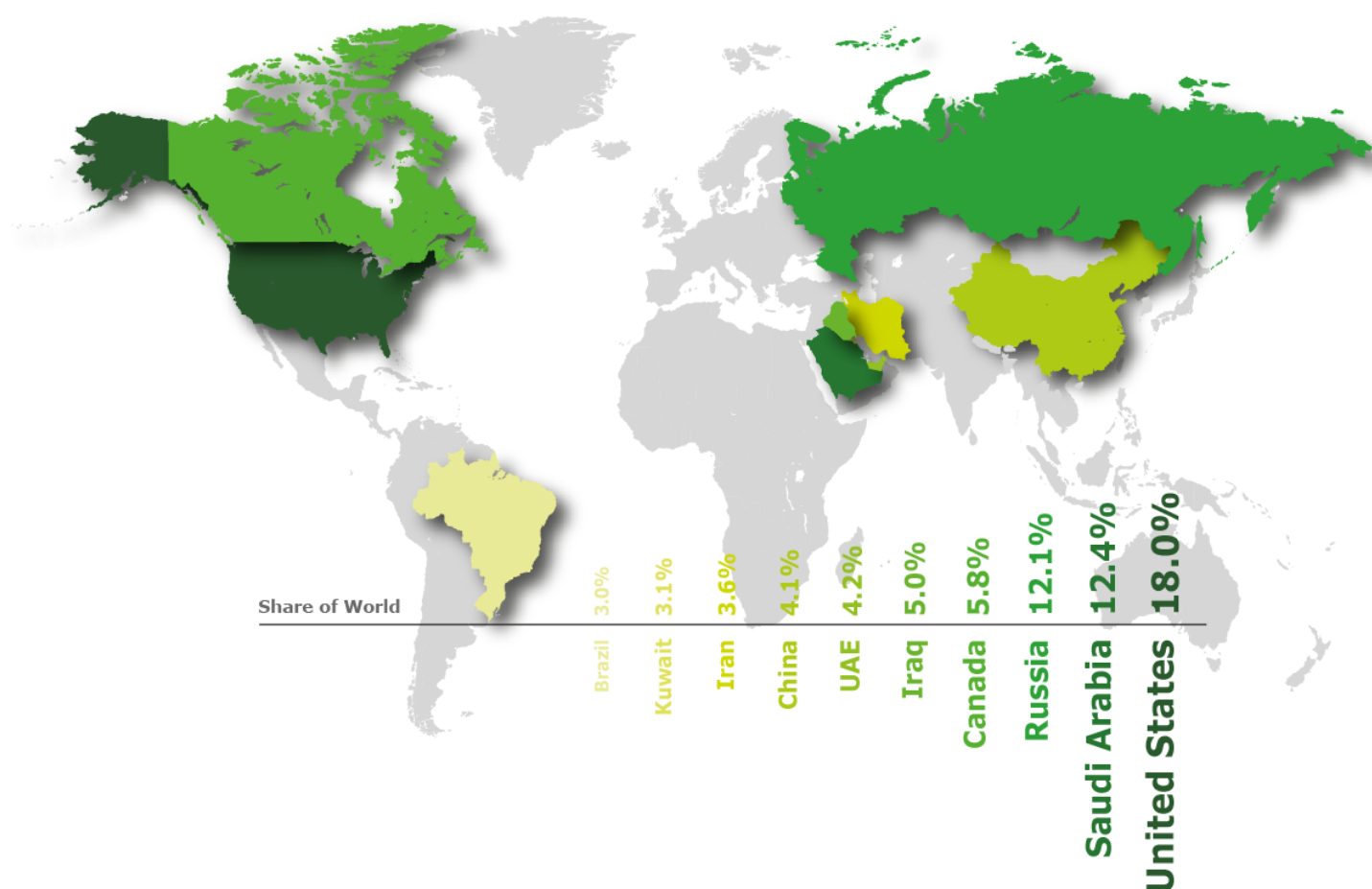
^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

The World Top 10 Producers (*)

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
United States	8,005	7,077	7,758	13,016	12,501	13,289	15,537	17,211	10.8%	4.1%
Saudi Arabia	9,349	10,927	9,971	12,045	12,344	11,876	12,345	11,828	-4.2%	1.2%
Russia	6,527	9,636	10,390	11,084	11,328	11,321	11,494	11,582	0.8%	3.1%
Canada	2,722	3,125	3,458	4,536	4,615	4,990	5,408	5,548	2.6%	3.8%
Iraq	2,582	1,833	2,430	4,078	4,503	4,563	4,663	4,812	3.2%	3.3%
United Arab Emirates	2,622	2,994	2,831	3,762	3,848	3,740	3,801	4,009	5.5%	2.3%
China	3,217	3,597	4,031	4,271	3,955	3,860	3,811	3,881	1.8%	1.0%
Iran	3,760	4,200	4,215	3,593	4,422	4,762	4,632	3,397	-26.7%	-0.5%
Kuwait	2,161	2,548	2,498	3,097	3,194	3,014	3,050	2,987	-2.1%	1.7%
Brazil	1,268	1,708	2,152	2,547	2,628	2,755	2,713	2,897	6.8%	4.4%
The World Top 10	42,212	47,645	49,734	62,029	63,338	64,170	67,454	68,152	1.0%	2.6%
Rest of the World	32,897	34,493	33,590	30,035	28,910	28,573	27,915	27,208	-2.5%	-1.0%
World	75,109	82,138	83,324	92,064	92,248	92,743	95,369	95,360	0.0%	1.3%

The World Top 10 (2019)



(*) Data source: IEA (2020) *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	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	7,102	5,894	4,410	3,718	3,743	3,697	3,665	3,554	-3.0%	-3.6%
Albania	6	8	13	23	19	17	16	14	-12.5%	4.6%
Austria	20	19	21	17	15	14	13	13	0.0%	-2.2%
Belarus	37	36	34	33	33	32	34	34	0.0%	-0.4%
Bulgaria	1	1	1	1	1	1	1	1	0.0%	0.0%
Croatia	28	21	18	14	15	15	15	15	0.0%	-3.2%
Czech Republic	8	6	5	7	5	7	6	6	0.0%	-1.5%
Denmark	363	388	255	159	142	140	117	104	-11.1%	-6.4%
Estonia	5	5	10	16	14	18	22	23	4.5%	8.4%
France	44	25	42	31	39	36	21	30	42.9%	-2.0%
Germany	86	78	76	67	68	67	67	61	-9.0%	-1.8%
Greece	6	2	2	1	3	3	4	3	-25.0%	-3.6%
Hungary	39	32	25	18	21	22	23	23	0.0%	-2.7%
Italy	78	121	97	131	96	97	110	89	-19.1%	0.7%
Netherlands	49	47	33	36	24	24	23	18	-21.7%	-5.1%
Norway	3,331	2,962	2,138	1,948	1,995	1,969	1,850	1,737	-6.1%	-3.4%
Poland	15	25	24	28	22	24	32	31	-3.1%	3.9%
Portugal	0	0	1	0	1	1	0	1		
Romania	131	113	89	82	78	75	74	72	-2.7%	-3.1%
Serbia	20	13	18	22	20	20	18	17	-5.6%	-0.9%
Slovakia	1	4	4	5	4	6	3	3	0.0%	6.0%
Spain	5	3	12	5	3	2	2	1	-50.0%	-8.1%
Turkey	53	43	48	48	49	49	55	58	5.5%	0.5%
Ukraine	82	97	79	54	50	49	51	55	7.8%	-2.1%
United Kingdom	2,694	1,845	1,365	972	1,026	1,009	1,108	1,145	3.3%	-4.4%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	7,854	11,699	13,414	13,949	14,119	14,224	14,477	14,544	0.5%	3.3%
Russia	6,527	9,636	10,390	11,084	11,328	11,321	11,494	11,582	0.8%	3.1%
Azerbaijan	282	449	1,042	849	829	784	793	765	-3.5%	5.4%
Georgia	2	1	1	1	0	0	0	0		-100.0%
Kazakhstan	733	1,293	1,694	1,694	1,666	1,840	1,927	1,933	0.3%	5.2%
Kyrgyzstan	2	2	1	1	1	1	1	1	0.0%	-3.6%
Turkmenistan	158	210	211	268	247	232	219	223	1.8%	1.8%
Uzbekistan	150	108	75	52	48	46	43	40	-7.0%	-6.7%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	23,512	25,562	25,367	29,801	31,548	31,143	31,748	30,276	-4.6%	1.3%
Bahrain	198	198	192	213	213	210	208	208	0.0%	0.3%
Iran	3,760	4,200	4,215	3,593	4,422	4,762	4,632	3,397	-26.7%	-0.5%
Iraq	2,582	1,833	2,430	4,078	4,503	4,563	4,663	4,812	3.2%	3.3%
Kuwait	2,161	2,548	2,498	3,097	3,194	3,014	3,050	2,987	-2.1%	1.7%
Oman	958	777	871	988	1,012	978	986	979	-0.7%	0.1%
Qatar	860	1,216	1,668	1,966	1,971	1,931	1,969	1,962	-0.4%	4.4%
Saudi Arabia	9,349	10,927	9,971	12,045	12,344	11,876	12,345	11,828	-4.2%	1.2%
Syria	573	448	385	27	25	25	24	24	0.0%	-15.4%
United Arab Emirates	2,622	2,994	2,831	3,762	3,848	3,740	3,801	4,009	5.5%	2.3%
Yemen	450	421	306	32	16	44	70	70	0.0%	-9.3%

^(*) Data source: IEA (2020) *Monthly Oil Data Services*. All rights reserved.

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

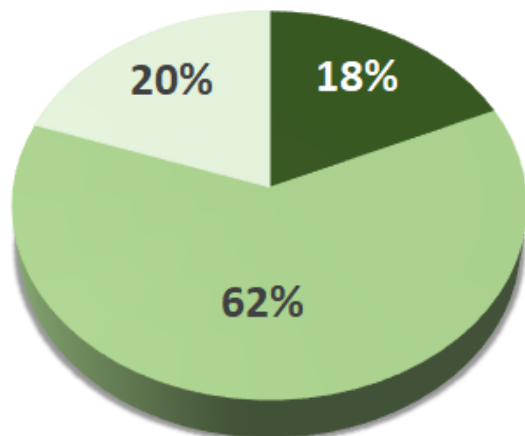
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	7,813	9,906	10,243	8,338	7,788	8,189	8,280	8,444	2.0%	0.4%
Algeria	1,436	1,931	1,720	1,590	1,604	1,530	1,512	1,490	-1.5%	0.2%
Angola	745	1,245	1,800	1,796	1,743	1,701	1,543	1,449	-6.1%	3.6%
Cameroon	114	89	64	93	92	75	67	64	-4.5%	-3.0%
Chad	0	170	120	139	129	112	128	148	15.6%	
Congo	265	247	313	234	217	266	331	339	2.4%	1.3%
Côte d'Ivoire	7	40	39	26	32	40	41	48	17.1%	10.7%
Dem. Rep. Congo	23	25	25	22	21	20	19	18	-5.3%	-1.3%
Egypt	711	649	701	697	665	640	650	632	-2.8%	-0.6%
Equatorial Guinea	144	380	311	276	231	212	208	196	-5.8%	1.6%
Gabon	276	270	249	230	227	200	190	212	11.6%	-1.4%
Ghana	7	6	7	106	92	167	190	199	4.7%	19.3%
Libya	1,471	1,721	1,661	437	426	877	1,029	1,159	12.6%	-1.2%
Mauritania	0	0	9	5	4	3	0	0		
Morocco	0	1	0	0	0	0	0	0		
Niger	0	0	0	15	16	15	15	14	-6.7%	
Nigeria	2,160	2,546	2,535	2,258	1,936	1,996	2,022	2,127	5.2%	-0.1%
South Africa	199	208	141	106	103	101	93	97	4.3%	-3.7%
South Sudan	0	0	0	148	117	122	128	139	8.6%	
Sudan	177	305	465	105	81	67	71	73	2.8%	-4.6%
Tunisia	78	73	83	55	52	45	43	40	-7.0%	-3.5%
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific	7,833	7,972	8,363	8,290	7,966	7,740	7,590	7,587	0.0%	-0.2%
Australia	802	545	549	371	345	315	342	418	22.2%	-3.4%
Bangladesh	4	6	5	4	4	4	3	3	0.0%	-1.5%
Brunei	195	206	169	127	121	113	111	121	9.0%	-2.5%
China	3,217	3,597	4,031	4,271	3,955	3,860	3,811	3,881	1.8%	1.0%
East Timor	0	100	88	60	49	40	33	28	-15.2%	
India	770	778	880	872	852	859	843	800	-5.1%	0.2%
Indonesia	1,447	1,086	991	817	866	831	798	763	-4.4%	-3.3%
Japan	17	19	18	12	11	12	10	11	10.0%	-2.3%
Malaysia	667	778	717	701	737	729	720	670	-6.9%	0.0%
Mongolia	0	1	6	24	22	20	19	18	-5.3%	
Myanmar	12	22	19	11	12	12	11	11	0.0%	-0.5%
New Zealand	45	24	60	48	41	37	30	30	0.0%	-2.1%
Pakistan	58	66	66	87	88	89	88	86	-2.3%	2.1%
Papua New Guinea	64	54	32	58	56	50	45	51	13.3%	-1.2%
Philippines	1	23	20	16	15	13	13	15	15.4%	15.3%
South Korea	13	10	21	22	24	25	29	28	-3.4%	4.1%
Taiwan	1	1	0	0	0	0	0	0		-100.0%
Thailand	194	284	383	452	462	455	438	427	-2.5%	4.2%
Vietnam	326	372	308	337	306	276	246	226	-8.1%	-1.9%
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	20,995	21,105	21,527	27,968	27,084	27,750	29,609	30,955	4.5%	2.1%
Argentina	863	834	712	629	601	572	581	601	3.4%	-1.9%
Barbados	1	1	1	1	1	1	1	1	0.0%	0.0%
Bolivia	39	58	50	75	75	73	71	68	-4.2%	3.0%
Brazil	1,268	1,708	2,152	2,547	2,628	2,755	2,713	2,897	6.8%	4.4%
Canada	2,722	3,125	3,458	4,536	4,615	4,990	5,408	5,548	2.6%	3.8%
Chile	9	8	13	6	5	6	9	12	33.3%	1.5%
Colombia	688	528	788	1,014	906	862	873	893	2.3%	1.4%
Cuba	51	54	56	53	48	44	42	39	-7.1%	-1.4%
Ecuador	404	534	468	541	547	531	523	529	1.1%	1.4%
Guatemala	21	18	12	10	9	8	7	7	0.0%	-5.6%
Guyana	0	0	0	0	0	0	0	1		
Mexico	3,452	3,768	2,959	2,597	2,470	2,236	2,073	1,928	-7.0%	-3.0%
Peru	104	116	156	150	134	133	133	140	5.3%	1.6%
Suriname	10	12	21	19	18	18	17	16	-5.9%	2.5%
Trinidad and Tobago	138	171	148	109	97	99	87	82	-5.7%	-2.7%
United States	8,005	7,077	7,758	13,016	12,501	13,289	15,537	17,211	10.8%	4.1%
Venezuela	3,220	3,093	2,775	2,665	2,429	2,133	1,534	982	-36.0%	-6.1%

^(*) Data source: IEA (2020) *Monthly Oil Data Services*. All rights reserved.

Cluster of Companies^(*)

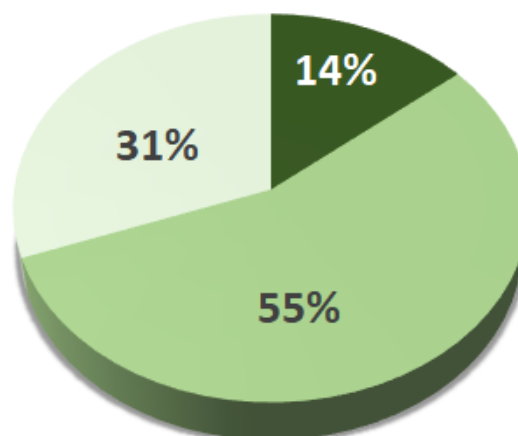
2000

World: 75,109 thousand barrels/day



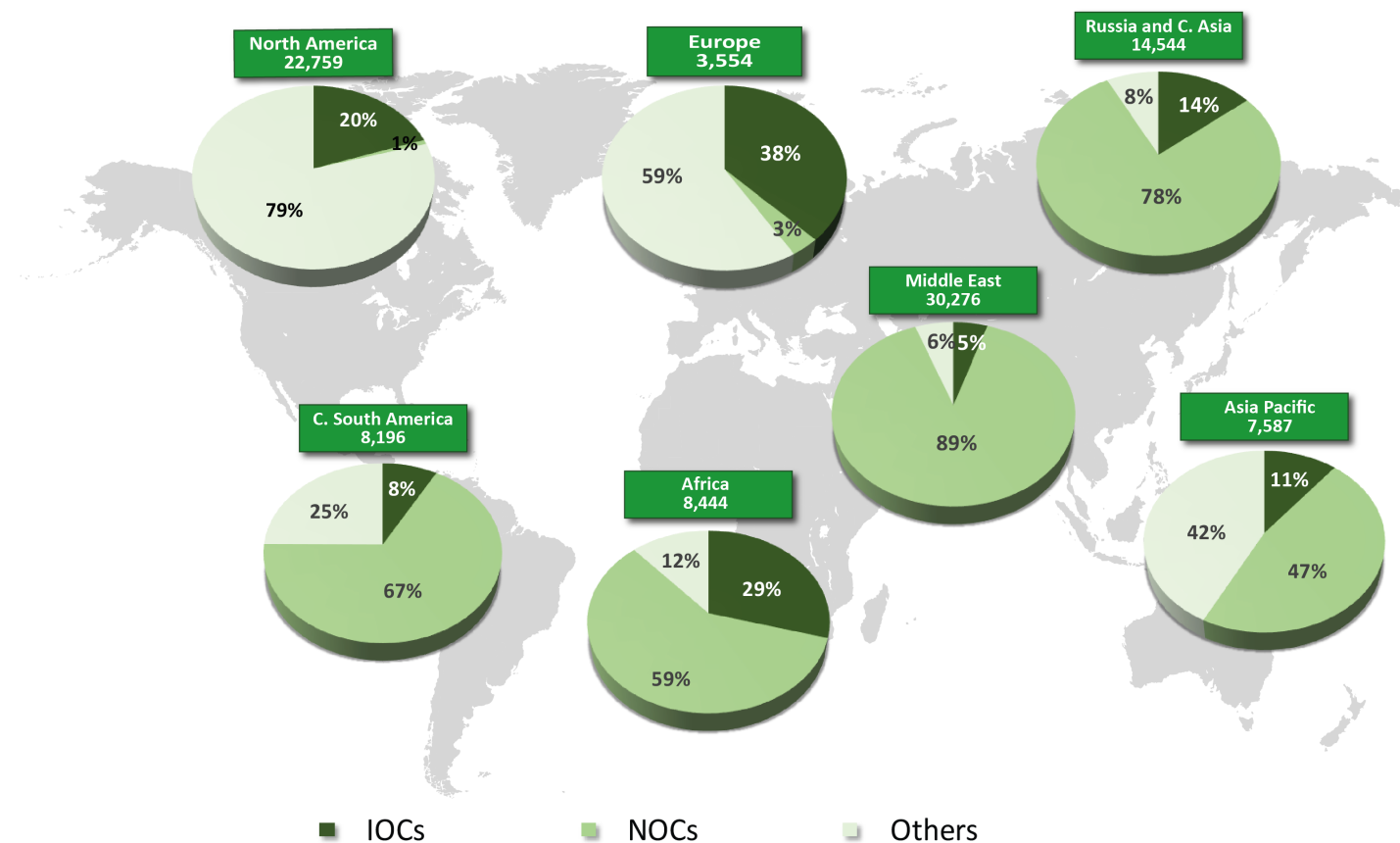
2019

World: 95,360 thousand barrels/day



2019

(thousand barrels/day)



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

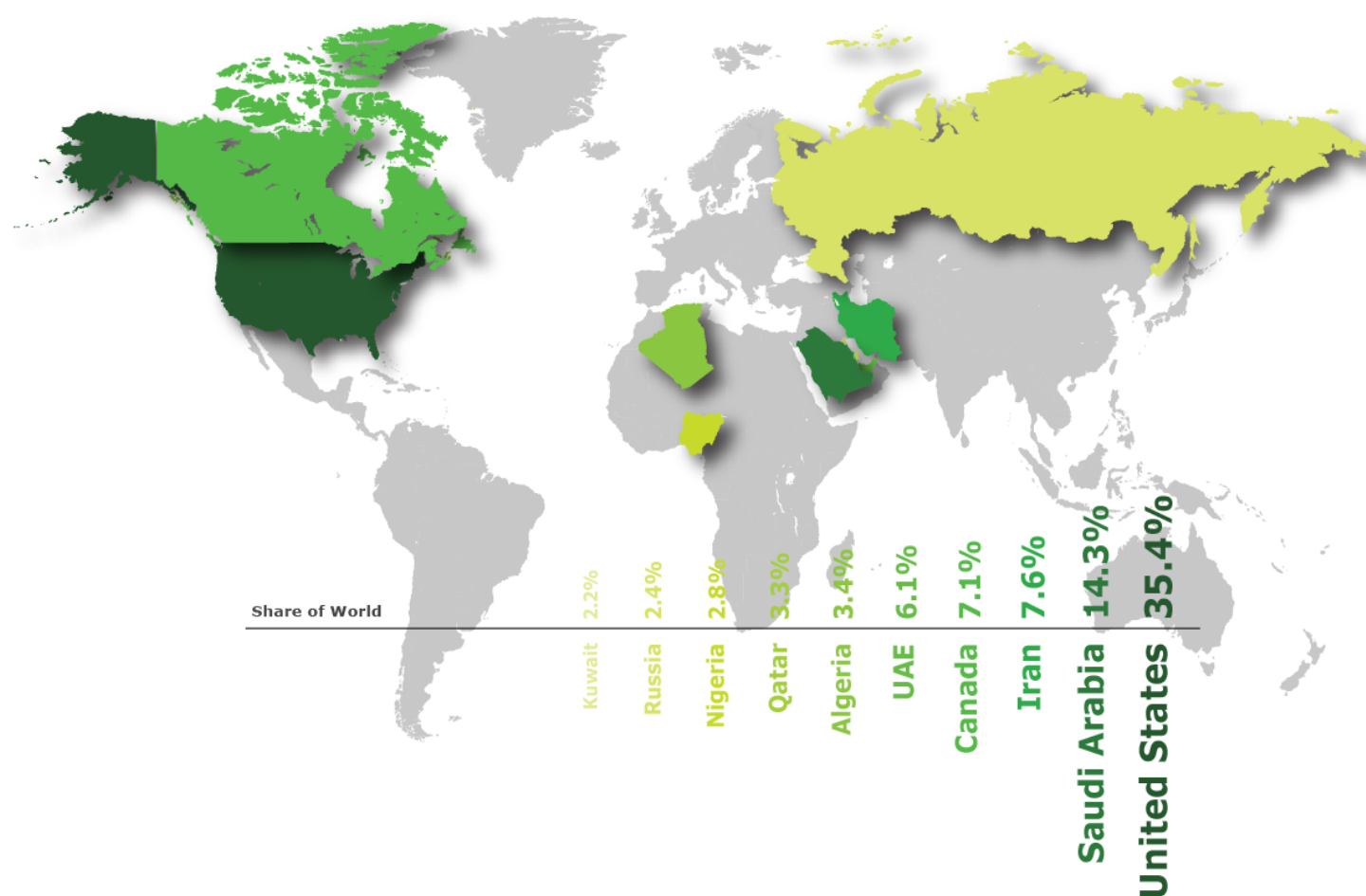
NOCs: ADNOC, Bahrain NOC, Bashneft, CNOOC, CNPC/PetroChina, CPC Taiwan, Dubai Petroleum, Ecopetrol, EGPC, Gazprom, INOC, Israel NOC, KazMunaiGaz, KNOC, KPC, Libyan NOC, Lukoil, MEDCO Energy, MOGE, Morocco NOC, Mubadala- Abu Dhabi, NIOC, NNPC, Novatek, Oil India, ONGC, Pakistan Oil Field, Pakistan Petroleum, 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	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
United States	1,911	1,717	2,074	3,342	3,509	3,783	4,369	4,813	10.2%	5.0%
Saudi Arabia	1,011	1,493	1,710	1,805	1,848	1,838	1,939	1,944	0.3%	3.5%
Iran	75	321	510	747	870	950	1,054	1,037	-1.6%	14.8%
Canada	706	668	608	708	792	839	904	970	7.3%	1.7%
United Arab Emirates	384	536	520	816	798	807	803	832	3.6%	4.2%
Algeria	630	603	515	481	494	483	470	466	-0.9%	-1.6%
Qatar	173	258	339	396	399	436	446	451	1.1%	5.2%
Nigeria	121	141	464	471	455	453	405	381	-5.9%	6.2%
Russia	50	145	251	365	364	341	333	332	-0.3%	10.5%
Kuwait	115	125	200	310	310	307	305	305	0.0%	5.3%
The World Top 10	5,176	6,007	7,191	9,441	9,839	10,237	11,028	11,531	4.6%	4.3%
Rest of the world	1,795	2,237	2,398	2,176	2,191	2,222	2,130	2,068	-2.9%	0.7%
World	6,971	8,244	9,589	11,617	12,030	12,459	13,158	13,599	3.4%	3.6%

The World Top 10 (2019)



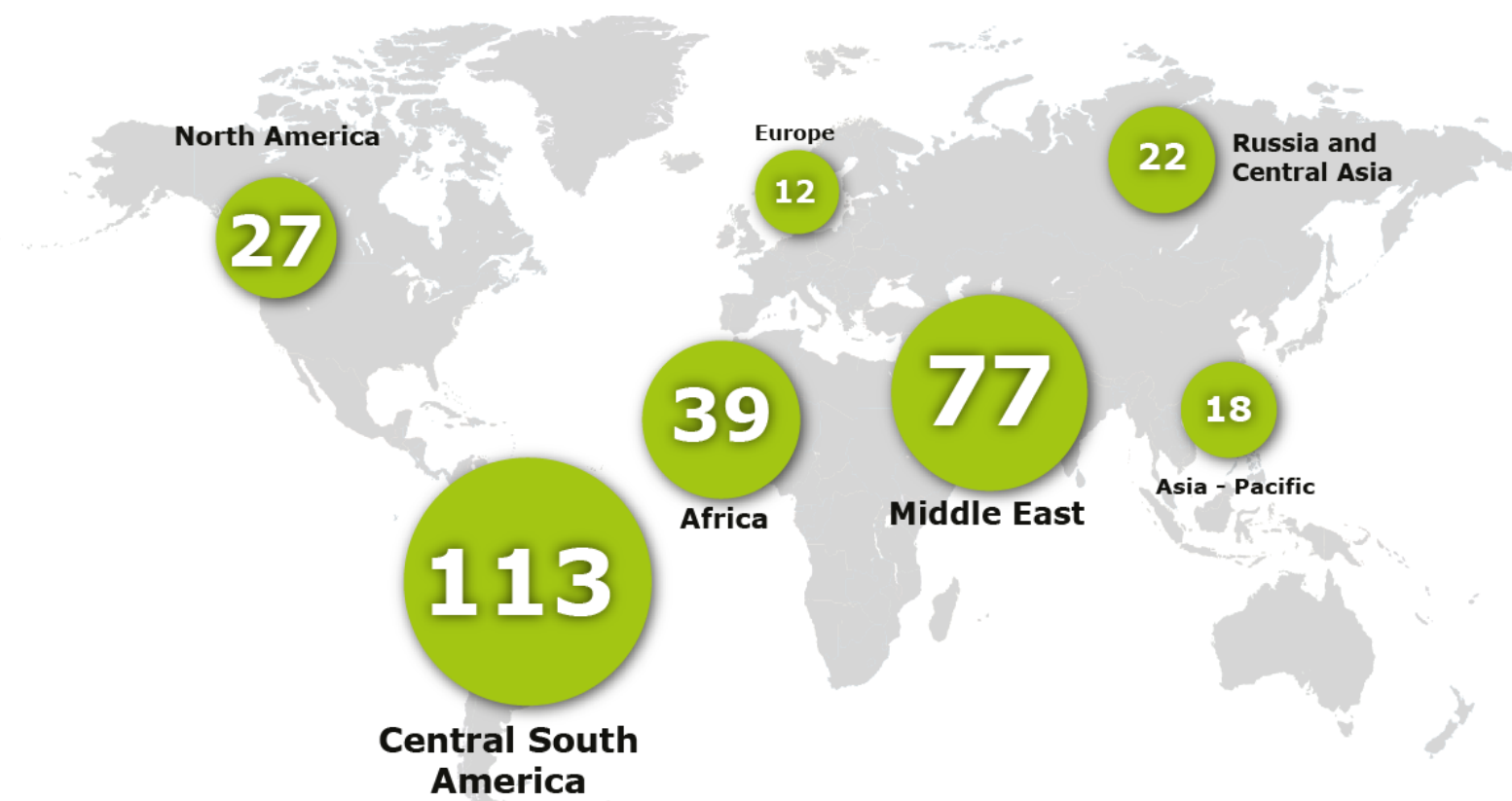
^(*) Data source: IEA (2020) *Monthly Oil Data Services*. All rights reserved.

Area and Aggregates^(*) (years)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	8	8	9	11	10	11	12	12
Russia and Central Asia	20	18	20	23	23	23	22	22
Middle East	81	81	86	74	70	71	69	77
Africa	33	31	33	40	43	40	40	39
Asia - Pacific	14	15	16	17	17	17	18	18
Americas	43	42	69	54	55	55	51	50
- North America	52	55	49	32	33	32	28	27
- Central South America	34	29	90	89	93	98	107	113
World	45	44	53	49	49	49	48	49
European Union	7	7	8	10	9	9	9	9
MENA	75	74	80	73	70	70	68	74
OECD	32	32	33	27	27	27	25	24
NON OECD	50	48	59	57	57	57	57	60
OPEC	75	72	95	89	87	87	87	95
NON OPEC	24	24	25	23	23	23	22	22

Reserves/Production Ratio (2019)

World: 49 years



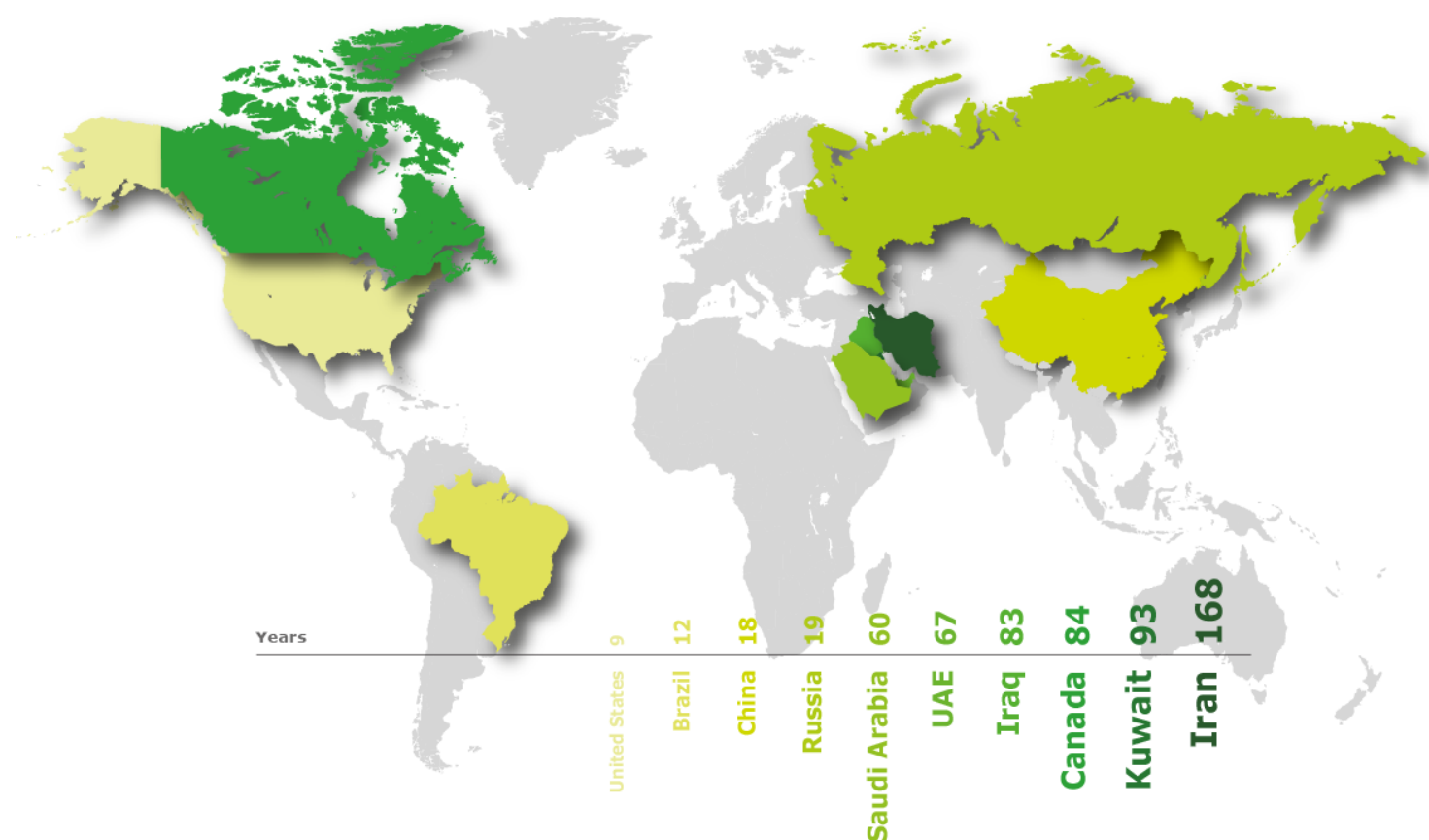
^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

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

(years)

	2000	2005	2010	2015	2016	2017	2018	2019
Iran	73	89	98	121	97	90	92	168
Kuwait	122	109	111	90	87	92	91	93
Canada	183	158	139	104	101	95	87	84
Iraq	119	172	161	96	91	88	85	83
United Arab Emirates	102	89	95	71	70	72	70	67
Saudi Arabia	77	66	73	61	59	61	59	60
Russia	20	17	16	20	19	19	19	19
China	13	14	16	16	18	18	19	18
Brazil	18	19	18	14	13	13	13	12
United States	8	9	9	7	8	9	8	9

The World Top 10 (2019)



^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Countries^(*)
(years)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	8	8	9	11	10	11	12	12
Albania	80	68	61	38	45	40	42	43
Austria	13	9	9	13	14	12	13	13
Belarus	16	15	23	26	26	21	20	20
Bulgaria	43	43	43	43	43	43	43	43
Croatia	10	9	16	23	21	16	16	16
Czech Republic	5	7	12	9	13	7	8	8
Denmark	8	9	10	8	8	9	10	12
France	10	17	10	14	11	9	16	10
Germany	13	13	14	18	17	14	14	14
Greece	5	10	20	44	14	11	8	11
Hungary	8	9	4	7	5	4	4	4
Italy ^(**)	20	10	16	12	15	16	14	16
Netherlands	6	6	12	12	18	14	15	29
Norway	9	9	9	10	10	11	13	13
Poland	22	11	16	15	19	14	10	10
Romania	24	11	18	20	21	22	22	23
Serbia	11	17	17	16	17	13	15	16
Slovakia	26	6	9	8	10	5	10	10
Spain	12	146	50	132	213	254	254	507
Turkey	16	19	22	24	23	18	16	17
Ukraine	14	11	20	32	34	27	26	24
United Kingdom	5	6	6	7	6	7	7	6

	2000	2005	2010	2015	2016	2017	2018	2019
Russia and Central Asia	20	18	20	23	23	23	22	22
Russia	20	17	16	20	19	19	19	19
Azerbaijan	11	43	18	23	23	24	24	25
Georgia	51	97	139	154				
Kazakhstan	20	19	49	49	49	45	43	43
Kyrgyzstan	58	55	159	176	171	135	135	135
Turkmenistan	9	7	8	6	7	7	8	7
Uzbekistan	11	15	22	31	34	35	38	41

^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Countries^(*)

(years)

	2000	2005	2010	2015	2016	2017	2018	2019
Middle East	81	81	86	74	70	71	69	77
Bahrain	2	2	3	3	3	2	2	2
Iran	73	89	98	121	97	90	92	168
Iraq	119	172	161	96	91	88	85	83
Kuwait	122	109	111	90	87	92	91	93
Oman	17	20	17	15	15	15	15	15
Qatar	42	57	42	35	35	36	35	35
Saudi Arabia	77	66	73	61	59	61	59	60
Syria	11	18	18	254	274	274	285	285
United Arab Emirates	102	89	95	71	70	72	70	67
Yemen	15	19	27	257	514	187	117	117

	2000	2005	2010	2015	2016	2017	2018	2019
Africa	33	31	33	40	43	40	40	39
Algeria	22	17	19	21	21	22	22	22
Angola	22	20	14	15	15	14	14	15
Cameroon	10	12	12	9	9	9	10	11
Chad		24	34	30	32	37	32	28
Congo	17	17	14	19	20	16	13	13
Côte d'Ivoire	42	7	10	17	13	8	8	7
Dem. Rep. Congo	24	21	29	36	37	30	32	34
Egypt	14	16	18	14	14	14	13	13
Equatorial Guinea	15	13	15	11	13	14	14	15
Gabon	24	22	22	24	24	27	29	26
Ghana	7	8	265	18	20	11	10	9
Libya	67	66	78	303	311	151	129	114
Mauritania			44	88	107	113		
Morocco		3						
Niger				27	25	26	26	28
Nigeria	37	39	40	45	53	51	50	48
Sudan	4	5	29	39	51	61	58	56
Tunisia	15	21	14	21	22	26	27	29

^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Countries^(*)
(years)

	2000	2005	2010	2015	2016	2017	2018	2019
Asia - Pacific	14	15	16	17	17	17	18	18
Australia	17	19	19	29	32	35	32	26
Bangladesh	42	13	22	31	30	24	32	32
Brunei	17	15	18	24	25	27	27	25
China	13	14	16	16	18	18	19	18
India	19	21	15	14	14	14	15	16
Indonesia	10	11	11	11	10	11	11	11
Japan	10	9	10	16	17	12	15	14
Malaysia	14	19	22	23	19	18	18	19
Mongolia		40	7	29	32	35	37	39
Myanmar	12	6	10	20	18	14	15	15
New Zealand	8	6	4	5	6	5	6	5
Pakistan	10	12	19	16	15	12	12	12
Papua New Guinea	16	12	11	7	7	6	7	5
Philippines		17	28	38	40	36	36	31
Taiwan	12	7						
Thailand	7	4	3	2	2	2	2	2
Vietnam	16	23	39	36	39	44	49	53

	2000	2005	2010	2015	2016	2017	2018	2019
Americas	43	42	69	54	55	55	51	50
Argentina	9	7	10	10	10	10	11	11
Barbados	9	8	8	9	9	7	7	6
Bolivia	30	21	37	27	26	22	22	26
Brazil	18	19	18	14	13	13	13	12
Canada	183	158	139	104	101	95	87	84
Chile	49	52	46	110	128	85	56	42
Colombia	8	8	7	6	6	5	6	6
Cuba	16	38	9	10	11	10	10	11
Ecuador	31	27	42	42	41	43	43	43
Guatemala	19	14	27	36	39	35	40	39
Mexico	22	9	13	10	10	9	9	9
Peru	24	25	22	22	25	20	18	17
Suriname	22	26	15	18	19	15	16	15
Trinidad and Tobago	17	13	15	18	7	7	8	8
United States	8	9	9	7	8	9	8	9
Venezuela	65	71	293	309	341	389	543	848

^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

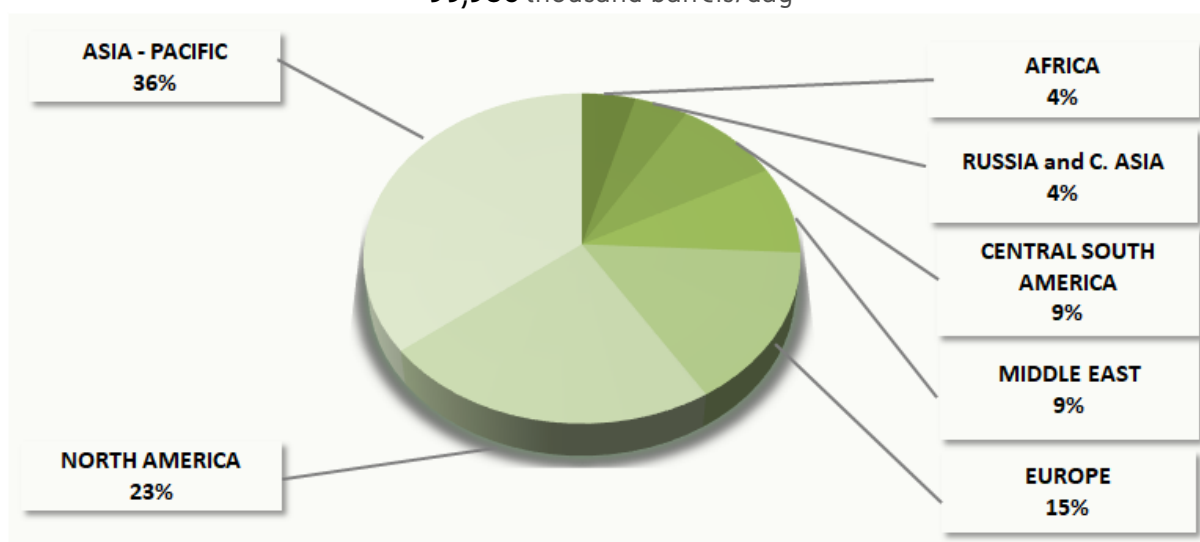
Areas and Aggregates^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	16,460	17,090	15,906	14,931	15,160	15,539	15,441	15,332	-0.7%	-0.4%
Russia and Central Asia	3,243	3,303	3,375	4,181	4,044	4,105	4,216	4,313	2.3%	1.5%
Middle East	5,011	6,206	7,533	8,730	8,553	8,596	8,571	8,607	0.4%	2.9%
Africa	2,466	2,928	3,583	4,221	4,197	4,259	4,235	4,306	1.7%	3.0%
Asia - Pacific	20,885	24,174	27,517	32,136	33,030	34,165	34,861	35,565	2.0%	2.8%
Americas	29,060	30,892	30,374	31,306	31,324	31,408	31,827	31,864	0.1%	0.5%
- North America	22,007	23,494	21,856	22,303	22,485	22,694	23,273	23,296	0.1%	0.3%
- Central South America	7,053	7,398	8,518	9,003	8,839	8,714	8,555	8,568	0.2%	1.0%
World	77,125	84,593	88,288	95,505	96,307	98,072	99,151	99,986	0.8%	1.4%
European Union	14,734	15,209	14,017	12,980	13,108	13,430	13,357	13,241	-0.9%	-0.6%
MENA	6,265	7,663	9,295	10,669	10,425	10,481	10,390	10,421	0.3%	2.7%
OECD	48,502	50,403	47,076	46,633	47,064	47,606	47,859	47,598	-0.5%	-0.1%
NON OECD	28,623	34,189	41,213	48,872	49,243	50,465	51,292	52,387	2.1%	3.2%
OPEC	5,500	6,816	8,360	9,781	9,525	9,411	9,337	9,299	-0.4%	2.8%
NON OPEC	71,625	77,777	79,928	85,723	86,782	88,660	89,814	90,686	1.0%	1.2%

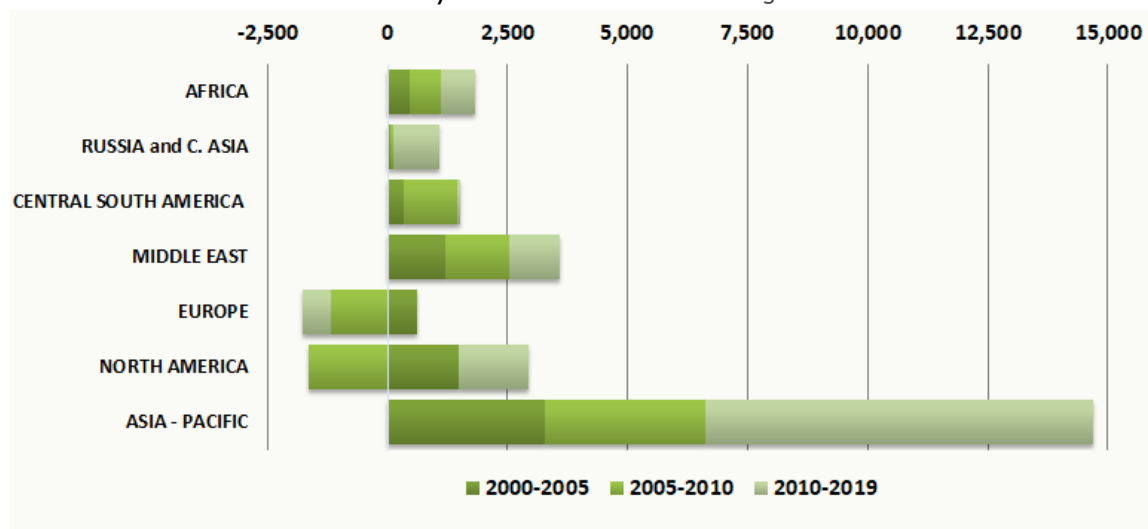
World Oil Consumption (2019)

99,986 thousand barrels/day



World Oil Consumption Growth (2000-2019)

22,861 thousand barrels/day



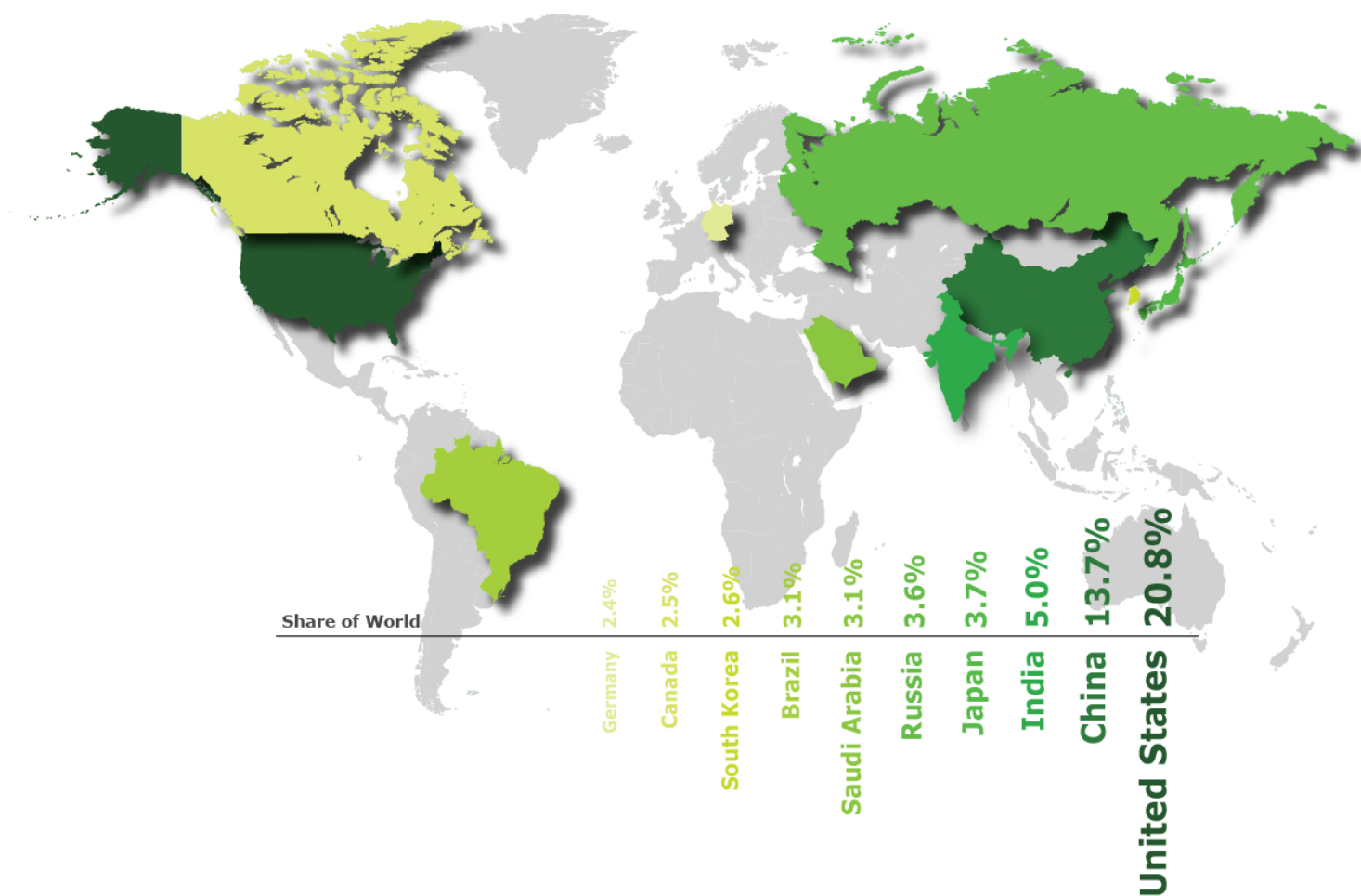
^(*) Data sources: Eni's calculations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

The World Top 10 Consumers^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
United States	19,999	21,168	19,476	19,840	19,999	20,273	20,822	20,794	-0.1%	0.2%
China	4,651	6,772	9,031	11,566	11,985	12,485	12,975	13,657	5.3%	5.8%
India	2,336	2,632	3,302	4,250	4,460	4,662	4,863	5,000	2.8%	4.1%
Japan	5,357	5,161	4,342	4,142	4,013	3,925	3,812	3,673	-3.7%	-2.0%
Russia	2,678	2,732	2,794	3,480	3,313	3,394	3,479	3,551	2.1%	1.5%
Saudi Arabia	1,571	1,941	2,674	3,415	3,301	3,303	3,128	3,148	0.6%	3.7%
Brazil	2,135	2,173	2,774	3,177	2,985	3,028	3,029	3,103	2.4%	2.0%
South Korea	2,135	2,191	2,269	2,473	2,605	2,630	2,619	2,591	-1.1%	1.0%
Canada	2,008	2,326	2,380	2,462	2,486	2,421	2,451	2,502	2.1%	1.2%
Germany	2,767	2,624	2,467	2,368	2,383	2,450	2,354	2,379	1.1%	-0.8%
The World Top 10	45,636	49,720	51,508	57,173	57,531	58,571	59,532	60,398	1.5%	1.5%
Rest of the World	31,489	34,873	36,780	38,332	38,776	39,500	39,619	39,588	-0.1%	1.2%
World	77,125	84,593	88,288	95,505	96,307	98,072	99,151	99,986	0.8%	1.4%

The World Top 10 (2019)



^(*) Data source: IEA (2020) *Monthly Oil Data Services*. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	16,460	17,090	15,906	14,931	15,160	15,539	15,441	15,332	-0.7%	-0.4%
Albania	21	29	26	26	28	30	31	31	2.4%	2.2%
Austria	250	297	278	258	262	263	275	281	1.9%	0.6%
Belarus	119	148	151	139	137	137	140	142	1.2%	0.9%
Belgium	612	660	653	623	632	637	645	622	-3.6%	0.1%
Bosnia Herzegovina	23	23	34	31	35	35	36	37	2.2%	2.6%
Bulgaria	86	99	84	95	96	98	101	104	3.0%	1.0%
Croatia	82	94	78	69	68	73	74	76	2.4%	-0.4%
Cyprus	50	57	57	48	52	53	55	56	2.5%	0.6%
Czech Republic	170	213	202	196	180	214	217	222	2.3%	1.4%
Denmark	210	183	167	154	158	159	161	163	1.4%	-1.3%
Estonia	21	26	26	29	29	30	32	31	-0.7%	2.1%
Finland	213	221	214	207	210	210	207	201	-3.1%	-0.3%
France	2001	1,990	1,818	1,744	1,706	1,736	1,712	1,713	0.1%	-0.8%
Germany	2767	2,624	2,467	2,368	2,383	2,450	2,354	2,379	1.1%	-0.8%
Gibraltar	53	79	83	74	76	84	77	77	0.0%	2.0%
Greece	399	424	370	295	296	303	299	310	3.4%	-1.3%
Hungary	143	155	149	155	156	167	171	172	0.6%	1.0%
Iceland	16	17	15	17	19	21	22	19	-15.8%	0.9%
Ireland	173	198	166	146	152	154	159	159	0.1%	-0.4%
Italy	1854	1,781	1,544	1,274	1,237	1,244	1,269	1,152	-9.2%	-2.5%
Kosovo	7	10	11	14	14	15	15	16	3.4%	4.4%
Latvia	28	36	37	37	38	38	35	39	12.5%	1.8%
Lithuania	59	59	56	57	62	64	68	67	-2.3%	0.7%
Luxembourg	48	65	60	56	56	59	63	64	1.7%	1.5%
Macedonia	19	18	18	20	22	21	20	21	1.5%	0.5%
Malta	29	32	47	43	45	50	53	55	4.1%	3.5%
Moldova	13	14	17	18	19	20	20	21	2.8%	2.5%
Montenegro	2	6	7	6	7	8	8	8	2.4%	7.7%
Netherlands	912	1,046	985	921	937	946	910	876	-3.8%	-0.2%
Norway	209	222	219	207	204	209	222	182	-18.0%	-0.7%
Poland	411	471	568	541	582	658	682	696	2.1%	2.8%
Portugal	333	337	274	237	237	242	230	243	5.8%	-1.6%
Romania	206	224	176	194	204	217	218	232	6.4%	0.6%
Serbia	29	83	81	71	77	77	80	82	2.8%	5.6%
Slovakia	67	78	84	79	82	90	92	86	-6.0%	1.4%
Slovenia	50	54	55	49	52	52	55	52	-5.1%	0.2%
Spain	1433	1,607	1,441	1,247	1,290	1,297	1,334	1,329	-0.4%	-0.4%
Sweden	362	360	335	298	322	327	312	327	4.7%	-0.5%
Switzerland	270	267	261	227	228	225	218	223	2.3%	-1.0%
Turkey	667	659	675	881	942	991	952	985	3.4%	2.1%
Ukraine	278	307	293	220	244	236	242	248	2.4%	-0.6%
United Kingdom	1765	1,819	1,624	1,560	1,584	1,596	1,575	1,535	-2.5%	-0.7%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	3,243	3,303	3,375	4,181	4,044	4,105	4,216	4,313	2.3%	1.5%
Russia	2,678	2,732	2,794	3,480	3,313	3,394	3,479	3,551	2.1%	1.5%
Armenia	6	9	9	7	7	8	8	9	4.8%	1.7%
Azerbaijan	106	104	74	96	96	101	102	104	2.2%	-0.1%
Georgia	18	17	22	26	32	31	32	33	3.7%	3.2%
Kazakhstan	206	198	233	308	336	320	330	340	3.1%	2.7%
Kyrgyzstan	15	14	27	36	38	32	35	34	-0.7%	4.3%
Tajikistan	3	6	11	22	22	21	22	23	4.0%	11.3%
Turkmenistan	104	120	126	151	149	150	157	165	5.1%	2.5%
Uzbekistan	106	103	80	55	50	48	50	53	4.4%	-3.6%

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Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	5,011	6,206	7,533	8,730	8,553	8,596	8,571	8,607	0.4%	2.9%
Bahrain	34	64	62	63	62	63	64	65	1.6%	3.4%
Iran	1,419	1,723	1,848	2,002	1,845	1,924	1,981	1,970	-0.6%	1.7%
Iraq	471	575	658	802	860	829	884	871	-1.5%	3.3%
Israel	252	233	251	232	236	246	253	256	1.2%	0.1%
Jordan	101	112	102	136	112	122	124	126	1.8%	1.2%
Kuwait	216	327	450	473	487	433	427	437	2.3%	3.8%
Lebanon	93	97	120	162	169	178	178	179	0.2%	3.5%
Oman	64	72	126	185	177	188	191	191	0.0%	6.0%
Qatar	48	89	172	227	222	237	234	242	3.3%	8.8%
Saudi Arabia	1,571	1,941	2,674	3,415	3,301	3,303	3,128	3,148	0.6%	3.7%
Syria	228	324	307	121	120	120	127	123	-3.0%	-3.2%
United Arab Emirates	416	511	616	837	900	897	922	942	2.1%	4.4%
Yemen	98	139	148	74	62	56	57	58	1.7%	-2.8%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	2,466	2,928	3,583	4,221	4,197	4,259	4,235	4,306	1.7%	3.0%
Algeria	240	271	351	481	429	424	428	438	2.3%	3.2%
Angola	37	42	106	154	148	128	127	126	-0.2%	6.7%
Benin	10	19	35	36	45	45	48	50	5.2%	8.6%
Cameroon	21	22	34	39	38	37	38	40	3.2%	3.3%
Congo	4	6	12	15	13	12	12	13	3.4%	5.9%
Côte d'Ivoire	27	24	24	44	53	49	52	55	6.0%	3.8%
Dem. Rep. Congo	8	13	16	21	16	18	18	18	3.2%	4.5%
Egypt	539	638	763	858	831	822	736	704	-4.4%	1.4%
Ethiopia	23	33	44	69	81	89	94	100	6.0%	8.0%
Gabon	14	15	19	22	22	22	22	22	2.4%	2.6%
Ghana	39	49	72	87	89	86	90	95	6.0%	4.8%
Kenya	61	62	84	104	114	116	122	128	4.5%	4.0%
Libya	244	264	304	225	237	242	249	259	3.8%	0.3%
Morocco	147	193	257	274	277	293	300	306	2.1%	4.0%
Mozambique	10	11	16	24	39	42	43	43	1.4%	8.1%
Nigeria	224	300	282	415	427	450	477	503	5.5%	4.4%
Senegal	31	36	38	47	48	57	60	63	4.8%	3.7%
South Africa	431	496	587	634	604	619	619	633	2.3%	2.0%
South Sudan	0	0	0	14	13	12	11	12	6.3%	
Sudan	43	77	112	134	150	148	146	144	-1.4%	6.6%
Tanzania	18	30	35	59	55	55	58	60	4.2%	6.6%
Tunisia	84	91	88	102	98	104	106	107	1.2%	1.2%
Zambia	11	14	13	23	23	30	31	31	1.6%	5.8%
Zimbabwe	23	14	14	28	25	26	27	26	-1.6%	0.7%
Others Africa	178	207	278	325	334	348	334	341	2.2%	3.5%

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Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific	20,885	24,174	27,517	32,136	33,030	34,165	34,861	35,565	2.0%	2.8%
Australia	872	962	1,045	1,123	1,117	1,175	1,196	1,184	-0.9%	1.6%
Bangladesh	66	80	80	111	111	127	135	143	6.2%	4.2%
Brunei	13	14	16	17	15	15	15	15	1.5%	1.0%
China	4,651	6,772	9,031	11,566	11,985	12,485	12,975	13,657	5.3%	5.8%
Hong Kong	250	290	416	371	386	434	444	434	-2.1%	2.9%
India	2,336	2,632	3,302	4,250	4,460	4,662	4,863	5,000	2.8%	4.1%
Indonesia	1,152	1,342	1,407	1,656	1,640	1,705	1,764	1,834	4.0%	2.5%
Japan	5,357	5,161	4,342	4,142	4,013	3,925	3,812	3,673	-3.7%	-2.0%
Malaysia	445	509	586	688	708	738	791	808	2.2%	3.2%
Myanmar	37	42	24	74	89	141	149	157	5.0%	7.9%
Nepal	15	16	22	26	44	53	55	59	5.6%	7.4%
New Zealand	134	153	153	160	167	176	181	185	2.0%	1.7%
North Korea	20	18	17	18	20	18	18	18	1.1%	-0.6%
Pakistan	374	336	400	526	546	560	473	435	-8.0%	0.8%
Philippines	350	312	314	401	452	485	509	527	3.5%	2.2%
Singapore	729	859	1,262	1,395	1,461	1,540	1,515	1,496	-1.2%	3.9%
South Korea	2,135	2,191	2,269	2,473	2,605	2,630	2,619	2,591	-1.1%	1.0%
Sri Lanka	76	96	88	110	126	141	145	148	2.2%	3.6%
Taiwan	868	991	1,048	1,012	1,014	1,028	1,029	978	-5.0%	0.6%
Thailand	748	1,008	1,128	1,362	1,392	1,418	1,442	1,459	1.2%	3.6%
Vietnam	165	263	395	415	445	459	485	510	5.2%	6.1%
Others Asia - Pacific	93	126	174	238	233	249	245	252	2.7%	5.4%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	29.060	30.892	30.374	31.306	31.324	31.408	31.827	31.864	0,1%	0,5%
Argentina	549	570	690	773	760	737	713	697	-2,3%	1,3%
Bolivia	40	47	58	78	81	84	87	90	3,1%	4,3%
Brazil	2.135	2.173	2.774	3.177	2.985	3.028	3.029	3.103	2,4%	2,0%
Canada	2.008	2.326	2.380	2.462	2.486	2.421	2.451	2.502	2,1%	1,2%
Chile	240	272	322	331	352	357	367	371	1,2%	2,3%
Colombia	270	263	267	342	358	360	361	370	2,4%	1,7%
Costa Rica	37	43	50	53	57	59	60	61	1,6%	2,7%
Cuba	196	178	196	175	176	168	174	173	-0,3%	-0,7%
Dominican Republic	123	119	117	124	135	126	133	139	4,0%	0,6%
Ecuador	147	193	235	268	256	253	256	255	-0,4%	2,9%
El Salvador	37	45	44	49	48	45	46	47	2,0%	1,2%
Guatemala	61	72	70	89	92	93	96	98	2,7%	2,5%
Haiti	10	14	14	22	22	23	23	23	0,1%	4,4%
Honduras	28	43	46	61	58	58	60	61	2,7%	4,2%
Jamaica	66	70	50	53	56	53	54	54	0,8%	-1,0%
Mexico	2.062	2.069	2.094	2.006	2.053	2.019	1.888	1.916	1,5%	-0,4%
Nicaragua	24	27	29	35	35	36	35	33	-4,0%	1,8%
Panama	84	87	125	147	155	167	172	178	3,4%	4,0%
Paraguay	23	25	36	47	53	60	61	62	0,8%	5,4%
Peru	163	160	199	235	246	254	261	266	1,7%	2,6%
Trinidad and Tobago	29	47	43	46	47	44	44	44	0,0%	2,1%
United States	19.999	21.168	19.476	19.840	19.999	20.273	20.822	20.794	-0,1%	0,2%
Uruguay	43	43	51	52	50	48	49	49	0,3%	0,7%
Venezuela	497	647	807	672	598	495	423	315	-25,5%	-2,4%
Others Americas	187	192	201	168	164	147	164	163	-0,5%	-0,7%

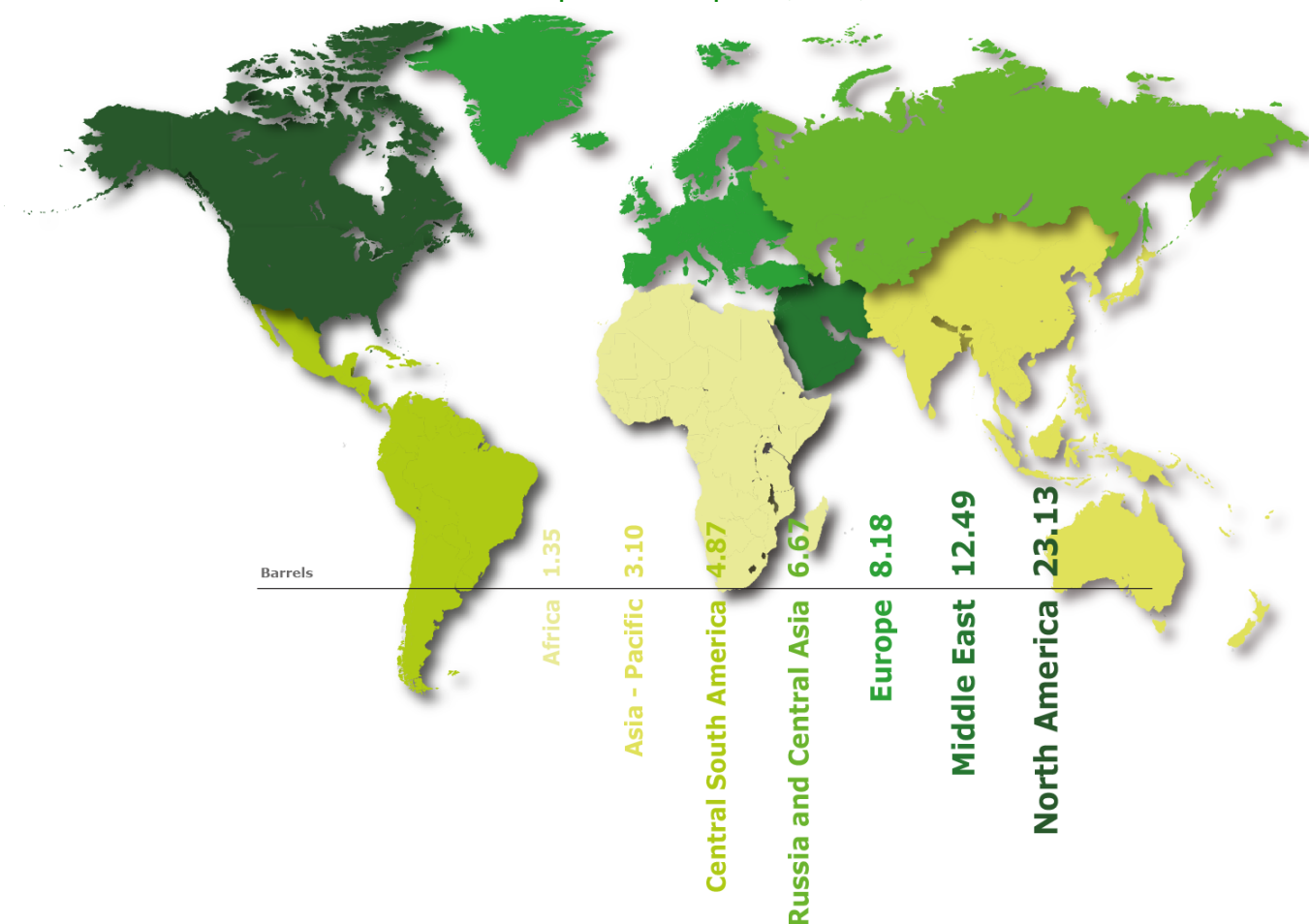
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Areas and Aggregates^(*)

(barrels)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	9.36	9.55	8.73	8.06	8.16	8.33	8.25	8.18
Russia and Central Asia	5.45	5.53	5.54	6.63	6.37	6.43	6.56	6.67
Middle East	10.94	12.11	12.93	13.54	13.03	12.88	12.64	12.49
Africa	1.23	1.29	1.40	1.46	1.42	1.40	1.36	1.35
Asia - Pacific	2.21	2.41	2.61	2.90	2.96	3.03	3.07	3.10
Americas	12.80	12.82	11.94	11.73	11.63	11.56	11.61	11.52
- North America	25.63	26.09	23.19	22.80	22.82	22.87	23.29	23.13
- Central South America	5.00	4.90	5.32	5.32	5.17	5.05	4.91	4.87
World	4.61	4.74	4.66	4.76	4.74	4.78	4.77	4.76
European Union	11.08	11.23	10.18	9.32	9.39	9.60	9.53	9.43
MENA	7.35	8.18	8.91	9.28	8.90	8.79	8.57	8.45
OECD	15.31	15.35	13.84	13.30	13.34	13.42	13.42	13.27
NON OECD	2.11	2.35	2.65	2.95	2.93	2.97	2.98	3.01
OPEC	6.05	6.71	7.32	7.63	7.27	7.04	6.85	6.69
NON OPEC	4.52	4.62	4.48	4.56	4.57	4.62	4.63	4.63

Per Capita Consumption (2019)



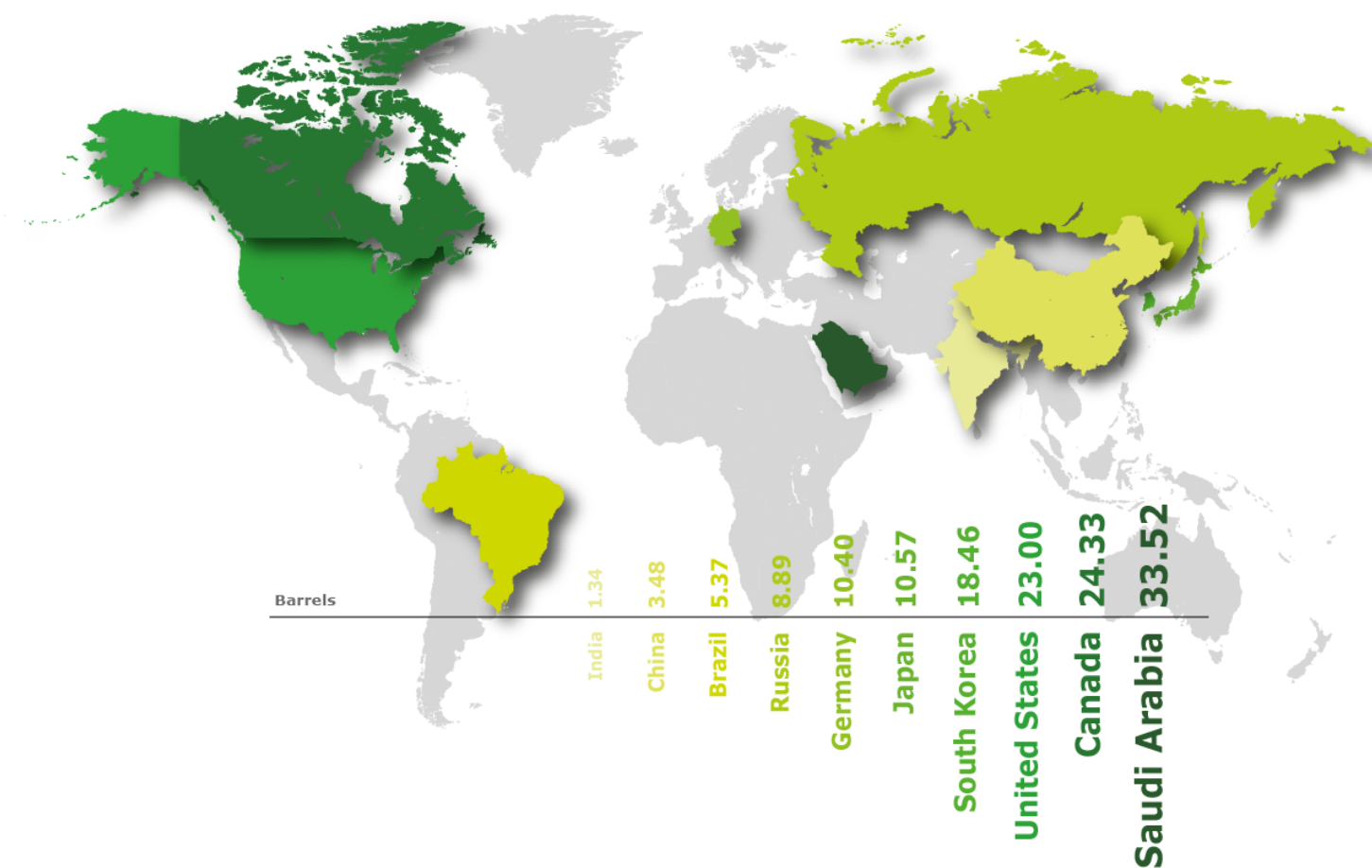
^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

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

(barrels)

	2000	2005	2010	2015	2016	2017	2018	2019
Saudi Arabia	27.75	29.75	35.59	39.30	37.14	36.42	33.87	33.52
Canada	23.91	26.36	25.58	25.19	25.17	24.22	24.18	24.33
United States	25.81	26.06	22.93	22.54	22.56	22.72	23.19	23.00
South Korea	16.45	16.42	16.71	17.76	18.65	18.79	18.68	18.46
Japan	15.33	14.68	12.33	11.81	11.46	11.24	10.94	10.57
Germany	12.41	11.74	11.14	10.57	10.58	10.82	10.34	10.40
Russia	6.68	6.94	7.11	8.76	8.32	8.51	8.71	8.89
Brazil	4.46	4.26	5.17	5.67	5.28	5.32	5.28	5.37
China	1.32	1.86	2.41	3.00	3.09	3.21	3.32	3.48
India	0.81	0.84	0.98	1.18	1.23	1.27	1.31	1.34

The World Top (2019)



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Countries^(*)

(barrels)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	9.36	9.55	8.73	8.06	8.16	8.33	8.25	8.18
Albania	2.49	3.48	3.20	3.33	3.57	3.77	3.90	4.01
Austria	11.31	13.16	12.09	10.86	10.95	10.89	11.31	11.44
Belarus	4.41	5.64	5.85	5.37	5.28	5.29	5.41	5.48
Belgium	21.73	22.83	21.78	20.13	20.30	20.36	20.50	19.67
Bosnia Herzegovina	2.21	2.26	3.34	3.31	3.77	3.84	3.98	4.10
Bulgaria	3.91	4.72	4.15	4.81	4.89	5.06	5.22	5.41
Croatia	6.78	7.83	6.57	5.97	5.94	6.36	6.54	6.74
Cyprus	26.37	28.17	25.42	20.59	22.30	22.59	23.04	23.30
Czech Republic	6.03	7.58	7.00	6.75	6.19	7.34	7.42	7.57
Denmark	14.35	12.35	11.00	9.91	10.11	10.09	10.20	10.31
Estonia	5.48	7.03	7.24	8.03	8.00	8.34	8.70	8.62
Finland	14.99	15.33	14.56	13.78	13.94	13.89	13.70	13.25
France	12.38	11.88	10.55	9.88	9.63	9.77	9.62	9.60
Germany	12.41	11.74	11.14	10.57	10.58	10.82	10.34	10.40
Greece	13.14	13.78	12.40	10.12	10.18	10.48	10.39	10.79
Hungary	5.11	5.60	5.49	5.80	5.82	6.28	6.43	6.48
Iceland	20.82	21.19	16.74	19.13	21.04	23.31	24.26	20.30
Ireland	16.69	17.41	13.27	11.44	11.85	11.84	12.03	11.88
Italy	11.94	11.15	9.50	7.67	7.44	7.49	7.64	6.94
Kosovo	1.50	2.06	2.35	2.82	2.82	3.05	3.13	3.23
Latvia	4.29	5.82	6.45	6.71	6.97	7.17	6.62	7.54
Lithuania	6.12	6.43	6.52	7.12	7.79	8.24	8.90	8.82
Luxembourg	40.17	51.73	43.15	36.18	35.38	36.61	37.87	37.80
Macedonia	3.35	3.17	3.20	3.53	3.91	3.76	3.55	3.60
Malta	26.84	28.97	41.02	35.70	36.86	39.91	40.70	41.41
Moldova	1.33	1.46	1.71	1.82	1.95	2.04	2.11	2.17
Montenegro	1.19	3.49	3.84	3.65	4.02	4.47	4.65	4.75
Netherlands	20.90	23.33	21.56	19.85	20.14	20.30	19.47	18.70
Norway	16.95	17.46	16.37	14.51	14.19	14.41	15.17	12.35
Poland	3.89	4.48	5.40	5.19	5.59	6.33	6.56	6.71
Portugal	11.80	11.70	9.43	8.36	8.37	8.57	8.18	8.68
Romania	3.40	3.81	3.14	3.55	3.77	4.03	4.07	4.37
Serbia	1.43	4.09	4.04	3.64	4.00	4.01	4.17	4.30
Slovakia	4.53	5.31	5.64	5.31	5.48	6.05	6.16	5.78
Slovenia	9.18	9.82	9.91	8.69	9.20	9.18	9.59	9.10
Spain	12.81	13.33	11.21	9.75	10.10	10.15	10.43	10.38
Sweden	14.88	14.53	13.02	11.12	11.95	12.06	11.42	11.88
Switzerland	13.80	13.17	12.19	9.97	9.94	9.70	9.31	9.45
Turkey	3.85	3.54	3.41	4.10	4.31	4.46	4.22	4.31
Ukraine	2.09	2.40	2.35	1.79	2.00	1.94	2.00	2.06
United Kingdom	10.93	11.01	9.34	8.64	8.72	8.73	8.56	8.30

	2000	2005	2010	2015	2016	2017	2018	2019
Russia and Central Asia	5.45	5.53	5.54	6.63	6.37	6.43	6.56	6.67
Russia	6.68	6.94	7.11	8.76	8.32	8.51	8.71	8.89
Armenia	0.76	1.10	1.15	0.91	0.92	1.00	1.04	1.08
Azerbaijan	4.78	4.44	2.99	3.66	3.60	3.76	3.75	3.79
Georgia	1.52	1.50	1.99	2.40	2.94	2.78	2.89	3.00
Kazakhstan	5.04	4.70	5.23	6.39	6.87	6.46	6.58	6.70
Kyrgyzstan	1.14	1.00	1.79	2.19	2.26	1.89	2.00	1.96
Tajikistan	0.18	0.31	0.52	0.94	0.91	0.86	0.89	0.90
Turkmenistan	8.43	9.21	9.03	9.89	9.61	9.50	9.81	10.15
Uzbekistan	1.56	1.42	1.02	0.64	0.58	0.55	0.57	0.58

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Countries^(*)

(barrels)

	2000	2005	2010	2015	2016	2017	2018	2019
Middle East	10.94	12.11	12.93	13.54	13.03	12.88	12.64	12.49
Bahrain	18.86	26.26	18.33	16.83	15.83	15.50	14.97	14.54
Iran	7.89	9.02	9.14	9.31	8.46	8.70	8.84	8.67
Iraq	7.32	7.80	8.07	8.23	8.58	8.06	8.40	8.09
Israel	15.47	13.05	12.48	10.61	10.64	10.87	11.01	10.96
Jordan	7.18	7.06	5.11	5.35	4.27	4.54	4.53	4.55
Kuwait	38.52	52.63	54.85	44.98	44.96	39.00	37.71	37.95
Lebanon	8.88	7.51	8.83	9.08	9.16	9.53	9.49	9.51
Oman	10.22	10.47	15.18	15.78	14.43	14.73	14.43	14.01
Qatar	29.77	37.44	33.79	32.33	30.48	31.79	30.73	31.18
Saudi Arabia	27.75	29.75	35.59	39.30	37.14	36.42	33.87	33.52
Syria	5.07	6.43	5.25	2.46	2.51	2.55	2.73	2.63
United Arab Emirates	48.41	40.61	26.29	32.97	35.08	34.51	34.96	35.20
Yemen	2.06	2.51	2.33	1.02	0.84	0.74	0.73	0.72

	2000	2005	2010	2015	2016	2017	2018	2019
Africa	1.23	1.29	1.40	1.46	1.42	1.40	1.36	1.35
Algeria	2.82	2.98	3.56	4.42	3.86	3.74	3.70	3.72
Angola	0.83	0.79	1.65	2.02	1.88	1.56	1.50	1.45
Benin	0.56	0.87	1.39	1.23	1.51	1.48	1.51	1.55
Cameroon	0.50	0.46	0.62	0.61	0.58	0.55	0.55	0.56
Congo	0.49	0.65	1.06	1.15	0.97	0.83	0.84	0.85
Côte d'Ivoire	0.60	0.48	0.42	0.70	0.81	0.73	0.75	0.78
Dem. Rep. Congo	0.06	0.08	0.09	0.10	0.07	0.08	0.08	0.08
Egypt	2.86	3.08	3.36	3.39	3.21	3.11	2.73	2.56
Ethiopia	0.13	0.16	0.19	0.26	0.29	0.31	0.32	0.33
Gabon	4.09	3.96	4.51	4.59	4.48	4.32	4.25	4.26
Ghana	0.74	0.82	1.06	1.14	1.14	1.07	1.10	1.14
Kenya	0.70	0.61	0.73	0.79	0.85	0.84	0.87	0.89
Libya	16.60	16.61	17.91	12.79	13.35	13.42	13.62	13.93
Morocco	1.86	2.31	2.90	2.88	2.88	3.01	3.04	3.07
Mozambique	0.20	0.20	0.25	0.33	0.51	0.53	0.53	0.52
Nigeria	0.67	0.79	0.65	0.84	0.84	0.86	0.89	0.91
Senegal	1.17	1.19	1.09	1.18	1.18	1.35	1.38	1.41
South Africa	3.50	3.78	4.18	4.18	3.92	3.96	3.91	3.95
South Sudan				0.14	0.13	0.11	0.10	0.11
Sudan	0.46	0.73	0.93	1.31	1.44	1.39	1.34	1.30
Tanzania	0.19	0.29	0.29	0.42	0.38	0.36	0.37	0.38
Tunisia	3.18	3.30	3.02	3.33	3.15	3.31	3.33	3.34
Zambia	0.37	0.44	0.35	0.54	0.50	0.65	0.65	0.64
Zimbabwe	0.71	0.43	0.41	0.73	0.65	0.66	0.68	0.66

(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Countries^(*)

(barrels)

	2000	2005	2010	2015	2016	2017	2018	2019
Asia - Pacific	2.21	2.41	2.61	2.90	2.96	3.03	3.07	3.10
Australia	16.76	17.41	17.21	17.13	16.81	17.45	17.53	17.15
Bangladesh	0.19	0.21	0.20	0.26	0.26	0.29	0.30	0.32
Brunei	13.97	13.63	15.43	15.15	13.15	13.13	13.00	13.06
China	1.32	1.86	2.41	3.00	3.09	3.21	3.32	3.48
Hong Kong	13.81	15.65	21.79	18.86	19.46	21.68	21.97	21.31
India	0.81	0.84	0.98	1.18	1.23	1.27	1.31	1.34
Indonesia	1.99	2.16	2.12	2.34	2.29	2.35	2.41	2.47
Japan	15.33	14.68	12.33	11.81	11.46	11.24	10.94	10.57
Malaysia	7.00	7.23	7.59	8.30	8.43	8.66	9.16	9.24
Myanmar	0.29	0.32	0.17	0.51	0.61	0.97	1.01	1.06
Nepal	0.23	0.23	0.30	0.35	0.59	0.70	0.72	0.75
New Zealand	12.67	13.48	12.76	12.63	13.08	13.67	13.95	14.12
North Korea	0.32	0.28	0.25	0.26	0.28	0.26	0.25	0.25
Pakistan	0.96	0.77	0.81	0.96	0.98	0.98	0.81	0.73
Philippines	1.64	1.32	1.22	1.43	1.59	1.68	1.74	1.78
Singapore	66.05	73.48	89.75	91.06	94.32	98.49	96.06	94.10
South Korea	16.45	16.42	16.71	17.76	18.65	18.79	18.68	18.46
Sri Lanka	1.48	1.79	1.58	1.92	2.19	2.44	2.49	2.54
Taiwan	14.51	16.01	16.56	15.72	15.71	15.88	15.86	15.03
Thailand	4.33	5.62	6.12	7.24	7.37	7.48	7.58	7.65
Vietnam	0.75	1.15	1.64	1.64	1.73	1.77	1.85	1.93

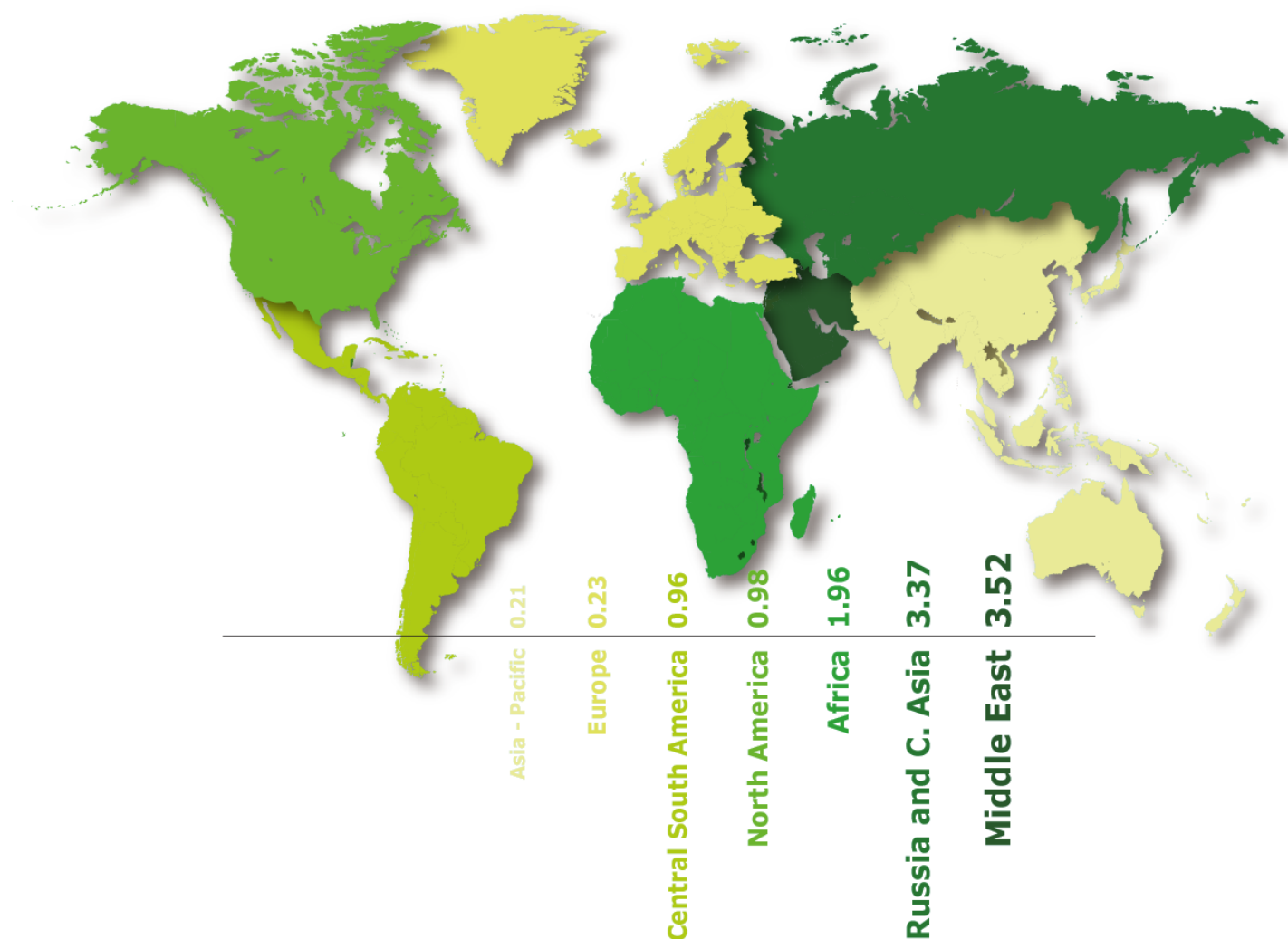
	2000	2005	2010	2015	2016	2017	2018	2019
Americas	12,80	12,82	11,94	11,73	11,63	11,56	11,61	11,52
Argentina	5,44	5,35	6,16	6,55	6,37	6,12	5,87	5,68
Bolivia	1,74	1,85	2,11	2,61	2,67	2,75	2,81	2,85
Brazil	4,46	4,26	5,17	5,67	5,28	5,32	5,28	5,37
Canada	23,91	26,36	25,58	25,19	25,17	24,22	24,18	24,33
Chile	5,71	6,14	6,90	6,71	7,06	7,06	7,15	7,15
Colombia	2,49	2,25	2,15	2,63	2,71	2,69	2,65	2,68
Costa Rica	3,39	3,70	3,98	4,01	4,27	4,32	4,37	4,39
Cuba	6,43	5,76	6,36	5,65	5,67	5,41	5,59	5,58
Dominican Republic	5,32	4,78	4,40	4,42	4,75	4,39	4,58	4,72
Ecuador	4,24	5,11	5,72	6,02	5,67	5,51	5,47	5,36
El Salvador	2,31	2,70	2,57	2,84	2,77	2,55	2,59	2,63
Guatemala	1,91	2,01	1,75	2,00	2,03	2,01	2,02	2,04
Haiti	0,44	0,57	0,53	0,76	0,75	0,76	0,76	0,75
Honduras	1,56	2,10	2,01	2,43	2,27	2,25	2,28	2,30
Jamaica	9,01	9,35	6,51	6,73	7,04	6,61	6,66	6,69
Mexico	7,61	7,12	6,70	6,01	6,07	5,91	5,46	5,48
Nicaragua	1,72	1,80	1,80	2,04	2,05	2,04	1,95	1,85
Panama	10,16	9,50	12,48	13,52	13,97	14,86	15,04	15,30
Paraguay	1,56	1,54	2,11	2,55	2,86	3,17	3,22	3,21
Peru	2,25	2,10	2,51	2,81	2,90	2,95	2,98	2,98
Trinidad and Tobago	8,43	13,34	11,83	12,36	12,53	11,48	11,46	11,42
United States	25,81	26,06	22,93	22,54	22,56	22,72	23,19	23,00
Uruguay	4,70	4,71	5,56	5,55	5,37	5,09	5,14	5,13
Venezuela	7,50	8,93	10,35	8,16	7,32	6,14	5,34	4,03

^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Areas and Aggregates^(*)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	0.43	0.34	0.28	0.25	0.25	0.24	0.24	0.23
Russia and Central Asia	2.42	3.54	3.97	3.34	3.49	3.46	3.43	3.37
Middle East	4.69	4.12	3.37	3.41	3.69	3.62	3.70	3.52
Africa	3.17	3.38	2.86	1.98	1.86	1.92	1.96	1.96
Asia - Pacific	0.38	0.33	0.30	0.26	0.24	0.23	0.22	0.21
Americas	0.72	0.68	0.71	0.89	0.86	0.88	0.93	0.97
- North America	0.49	0.43	0.51	0.79	0.76	0.81	0.90	0.98
- Central South America	1.46	1.47	1.21	1.16	1.13	1.09	1.01	0.96
World	0.97	0.97	0.94	0.96	0.96	0.95	0.96	0.95
European Union	0.24	0.18	0.15	0.12	0.12	0.12	0.12	0.12
MENA	4.34	3.91	3.18	3.05	3.29	3.27	3.37	3.22
OECD	0.45	0.40	0.40	0.52	0.50	0.51	0.56	0.60
NON OECD	1.86	1.81	1.56	1.39	1.40	1.35	1.34	1.28
OPEC	5.56	5.06	4.04	3.74	3.95	3.97	4.00	3.82
NON OPEC	0.62	0.61	0.62	0.65	0.63	0.62	0.65	0.66

Production/Consumption Ratio (2019)

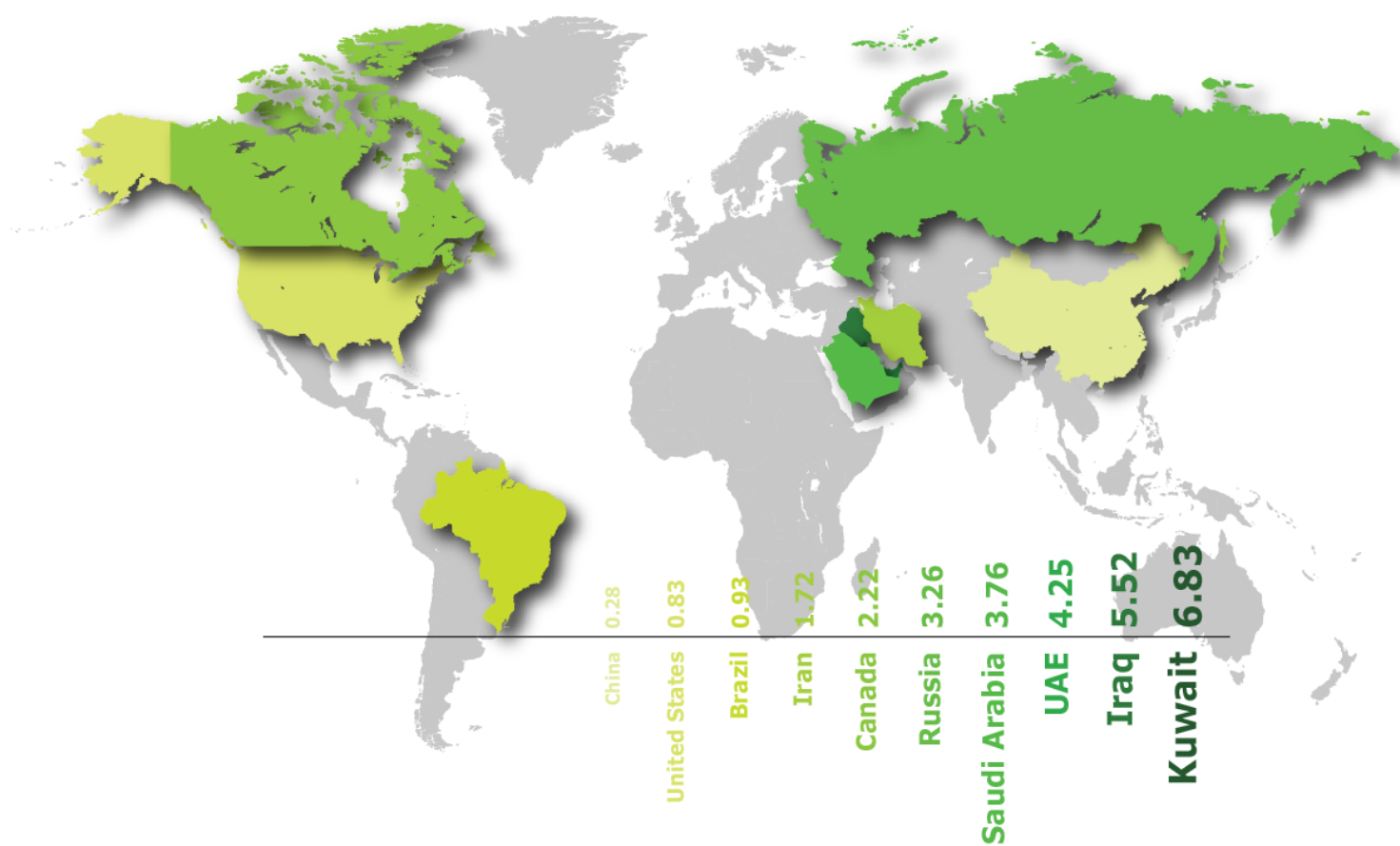


^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	2019
Kuwait	10.01	7.78	5.56	6.55	6.55	6.95	7.14	6.83
Iraq	5.48	3.19	3.70	5.08	5.23	5.51	5.27	5.52
United Arab Emirates	6.31	5.86	4.60	4.50	4.28	4.17	4.12	4.25
Saudi Arabia	5.95	5.63	3.73	3.53	3.74	3.60	3.95	3.76
Russia	2.44	3.53	3.72	3.19	3.42	3.34	3.30	3.26
Canada	1.36	1.34	1.45	1.84	1.86	2.06	2.21	2.22
Iran	2.65	2.44	2.28	1.79	2.40	2.48	2.34	1.72
Brazil	0.59	0.79	0.78	0.80	0.88	0.91	0.90	0.93
United States	0.40	0.33	0.40	0.66	0.63	0.66	0.75	0.83
China	0.69	0.53	0.45	0.37	0.33	0.31	0.29	0.28

The World Top 10 (2019)



^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	0.43	0.34	0.28	0.25	0.25	0.24	0.24	0.23
Albania	0.29	0.28	0.51	0.87	0.67	0.57	0.52	0.45
Austria	0.08	0.06	0.08	0.07	0.06	0.05	0.05	0.05
Belarus	0.31	0.24	0.23	0.24	0.24	0.23	0.24	0.24
Bulgaria	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Croatia	0.34	0.22	0.23	0.20	0.22	0.21	0.20	0.20
Czech Republic	0.05	0.03	0.02	0.04	0.03	0.03	0.03	0.03
Denmark	1.73	2.11	1.52	1.03	0.90	0.88	0.73	0.64
Estonia	0.24	0.19	0.38	0.55	0.49	0.60	0.70	0.73
France	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.02
Germany	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Greece	0.02	0.00	0.01	0.00	0.01	0.01	0.01	0.01
Hungary	0.27	0.21	0.17	0.12	0.14	0.13	0.13	0.13
Italy	0.04	0.07	0.06	0.10	0.08	0.08	0.09	0.08
Netherlands	0.05	0.04	0.03	0.04	0.03	0.03	0.03	0.02
Norway	15.94	13.37	9.76	9.43	9.77	9.42	8.34	9.54
Poland	0.04	0.05	0.04	0.05	0.04	0.04	0.05	0.04
Romania	0.63	0.51	0.51	0.42	0.38	0.35	0.34	0.31
Serbia	0.68	0.16	0.22	0.31	0.26	0.26	0.23	0.21
Slovakia	0.01	0.05	0.05	0.06	0.05	0.07	0.03	0.03
Spain	0.00	0.00	0.01	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	0.06
Ukraine	0.29	0.32	0.27	0.25	0.20	0.21	0.21	0.22
United Kingdom	1.53	1.01	0.84	0.62	0.65	0.63	0.70	0.75

	2000	2005	2010	2015	2016	2017	2018	2019
Russia and Central Asia	2.42	3.54	3.97	3.34	3.49	3.46	3.43	3.37
Russia	2.44	3.53	3.72	3.19	3.42	3.34	3.30	3.26
Azerbaijan	2.65	4.33	14.07	8.80	8.63	7.73	7.76	7.33
Georgia	0.11	0.06	0.04	0.04	0.00	0.00	0.00	0.00
Kazakhstan	3.56	6.52	7.28	5.51	4.96	5.75	5.83	5.68
Kyrgyzstan	0.13	0.14	0.04	0.03	0.03	0.03	0.03	0.03
Turkmenistan	1.51	1.75	1.68	1.78	1.66	1.55	1.39	1.35
Uzbekistan	1.42	1.05	0.94	0.95	0.95	0.95	0.85	0.76

	2000	2005	2010	2015	2016	2017	2018	2019
Middle East	4.69	4.12	3.37	3.41	3.69	3.62	3.70	3.52
Bahrain	5.76	3.10	3.08	3.37	3.44	3.31	3.23	3.18
Iran	2.65	2.44	2.28	1.79	2.40	2.48	2.34	1.72
Iraq	5.48	3.19	3.70	5.08	5.23	5.51	5.27	5.52
Kuwait	10.01	7.78	5.56	6.55	6.55	6.95	7.14	6.83
Oman	15.08	10.79	6.89	5.35	5.72	5.19	5.16	5.13
Qatar	17.80	13.70	9.71	8.65	8.89	8.14	8.41	8.11
Saudi Arabia	5.95	5.63	3.73	3.53	3.74	3.60	3.95	3.76
Syria	2.51	1.38	1.25	0.22	0.21	0.21	0.19	0.20
United Arab Emirates	6.31	5.86	4.60	4.50	4.28	4.17	4.12	4.25
Yemen	4.57	3.04	2.07	0.43	0.26	0.78	1.23	1.21

^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

	2000	2005	2010	2015	2016	2017	2018	2019
Africa	3.17	3.38	2.86	1.98	1.86	1.92	1.96	1.96
Algeria	5.99	7.14	4.91	3.31	3.74	3.61	3.53	3.40
Angola	20.10	29.63	17.01	11.65	11.76	13.32	12.20	11.48
Cameroon	5.34	3.97	1.86	2.39	2.43	2.02	1.75	1.62
Congo	63.40	38.18	25.22	15.28	16.48	23.01	27.36	27.09
Côte d'Ivoire	0.26	1.65	1.64	0.59	0.60	0.82	0.80	0.88
Dem. Rep. Congo	2.91	1.96	1.60	1.04	1.32	1.14	1.07	0.98
Egypt	1.32	1.02	0.92	0.81	0.80	0.78	0.88	0.90
Gabon	20.10	18.06	12.94	10.45	10.32	9.23	8.71	9.49
Ghana	0.18	0.12	0.10	1.22	1.03	1.95	2.12	2.09
Libya	6.04	6.52	5.46	1.94	1.79	3.62	4.13	4.48
Nigeria	9.66	8.48	9.00	5.44	4.53	4.43	4.24	4.23
South Africa	0.46	0.42	0.24	0.17	0.17	0.16	0.15	0.15
South Sudan				10.34	8.93	10.61	11.23	11.46
Sudan	4.13	3.97	4.17	0.88	0.59	0.49	0.53	0.55
Tunisia	0.92	0.80	0.94	0.54	0.53	0.43	0.41	0.37

	2000	2005	2010	2015	2016	2017	2018	2019
Asia - Pacific	0.38	0.33	0.30	0.26	0.24	0.23	0.22	0.21
Australia	0.92	0.57	0.53	0.33	0.31	0.27	0.29	0.35
Bangladesh	0.06	0.08	0.06	0.04	0.04	0.03	0.02	0.02
Brunei	15.29	15.11	10.28	7.38	8.00	7.40	7.27	7.81
China	0.69	0.53	0.45	0.37	0.33	0.31	0.29	0.28
India	0.33	0.30	0.27	0.21	0.19	0.18	0.17	0.16
Indonesia	1.26	0.81	0.70	0.49	0.53	0.49	0.45	0.42
Malaysia	1.50	1.53	1.22	1.02	1.04	0.99	0.91	0.83
Myanmar	0.33	0.52	0.79	0.15	0.13	0.08	0.07	0.07
New Zealand	0.34	0.16	0.39	0.30	0.25	0.21	0.17	0.16
Pakistan	0.16	0.20	0.16	0.17	0.16	0.16	0.19	0.20
Philippines	0.00	0.07	0.06	0.04	0.03	0.03	0.03	0.03
South Korea	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Thailand	0.26	0.28	0.34	0.33	0.33	0.32	0.30	0.29
Vietnam	1.98	1.41	0.78	0.81	0.69	0.60	0.51	0.44

	2000	2005	2010	2015	2016	2017	2018	2019
Americas	0.72	0.68	0.71	0.89	0.86	0.88	0.93	0.97
Argentina	1.57	1.46	1.03	0.81	0.79	0.78	0.81	0.86
Bolivia	0.97	1.24	0.86	0.96	0.93	0.86	0.81	0.76
Brazil	0.59	0.79	0.78	0.80	0.88	0.91	0.90	0.93
Canada	1.36	1.34	1.45	1.84	1.86	2.06	2.21	2.22
Chile	0.04	0.03	0.04	0.02	0.01	0.02	0.02	0.03
Colombia	2.55	2.01	2.95	2.96	2.53	2.40	2.42	2.41
Cuba	0.26	0.30	0.29	0.30	0.27	0.26	0.24	0.23
Ecuador	2.74	2.76	1.99	2.02	2.13	2.10	2.04	2.07
Guatemala	0.34	0.25	0.17	0.11	0.10	0.09	0.07	0.07
Mexico	1.67	1.82	1.41	1.29	1.20	1.11	1.10	1.01
Peru	0.64	0.72	0.78	0.64	0.54	0.52	0.51	0.53
Trinidad and Tobago	4.72	3.61	3.44	2.35	2.05	2.27	1.99	1.88
United States	0.40	0.33	0.40	0.66	0.63	0.66	0.75	0.83
Venezuela	6.47	4.78	3.44	3.96	4.06	4.31	3.63	3.12

^(*) Data source: Eni's calculations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Oil - Trade and Prices

Regional Crude Balances

Exports

Imports

Crude Future Price and Open Interests

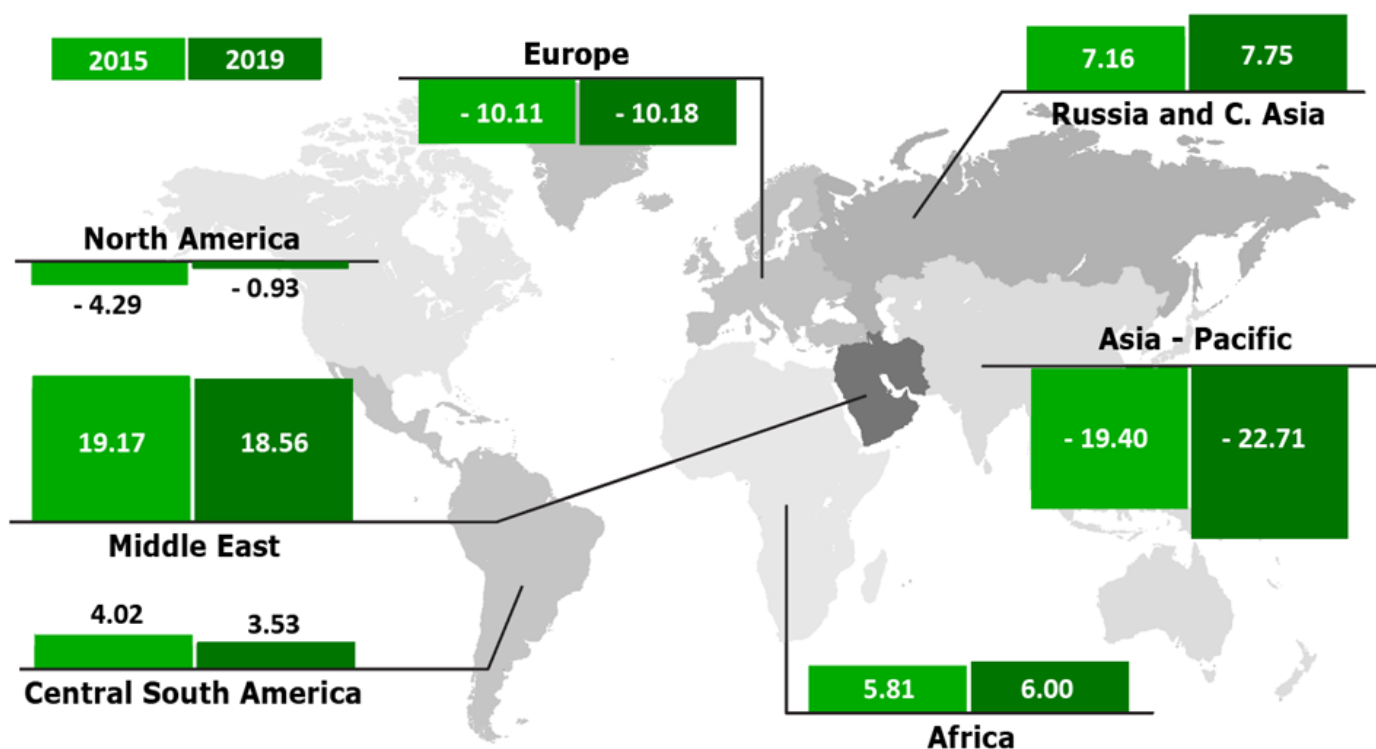
Crude Surplus Deficit by Area^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ (2019-2018)	Δ (2019-2000)
Europe	-7,950	-10,156	-9,752	-10,109	-9,885	-10,310	-10,121	-10,179	-58	-2,229
Russia and Central Asia	3,730	6,708	7,441	7,156	7,407	7,540	7,671	7,750	79	4,020
Middle East	15,257	17,102	16,046	19,170	20,482	19,835	20,141	18,558	-1,583	3,301
Africa	4,513	6,688	7,237	5,812	5,278	5,744	5,891	5,999	108	1,486
Asia - Pacific	-10,896	-13,515	-16,115	-19,395	-20,475	-21,589	-22,155	-22,706	-551	-11,810
Americas	-5,823	-5,944	-4,608	-271	-585	-376	1,035	2,595	1,560	8,418
- North America	-9,136	-9,653	-8,161	-4,287	-4,703	-4,339	-2,672	-934	1,739	8,202
- Central South America	3,313	3,709	3,553	4,016	4,117	3,963	3,708	3,529	-179	216
World	-1,170	882	249	2,363	2,222	842	2,462	2,017	-445	3,187

Crude Surplus Deficit by Area (2015 and 2019)

(million barrels/day)



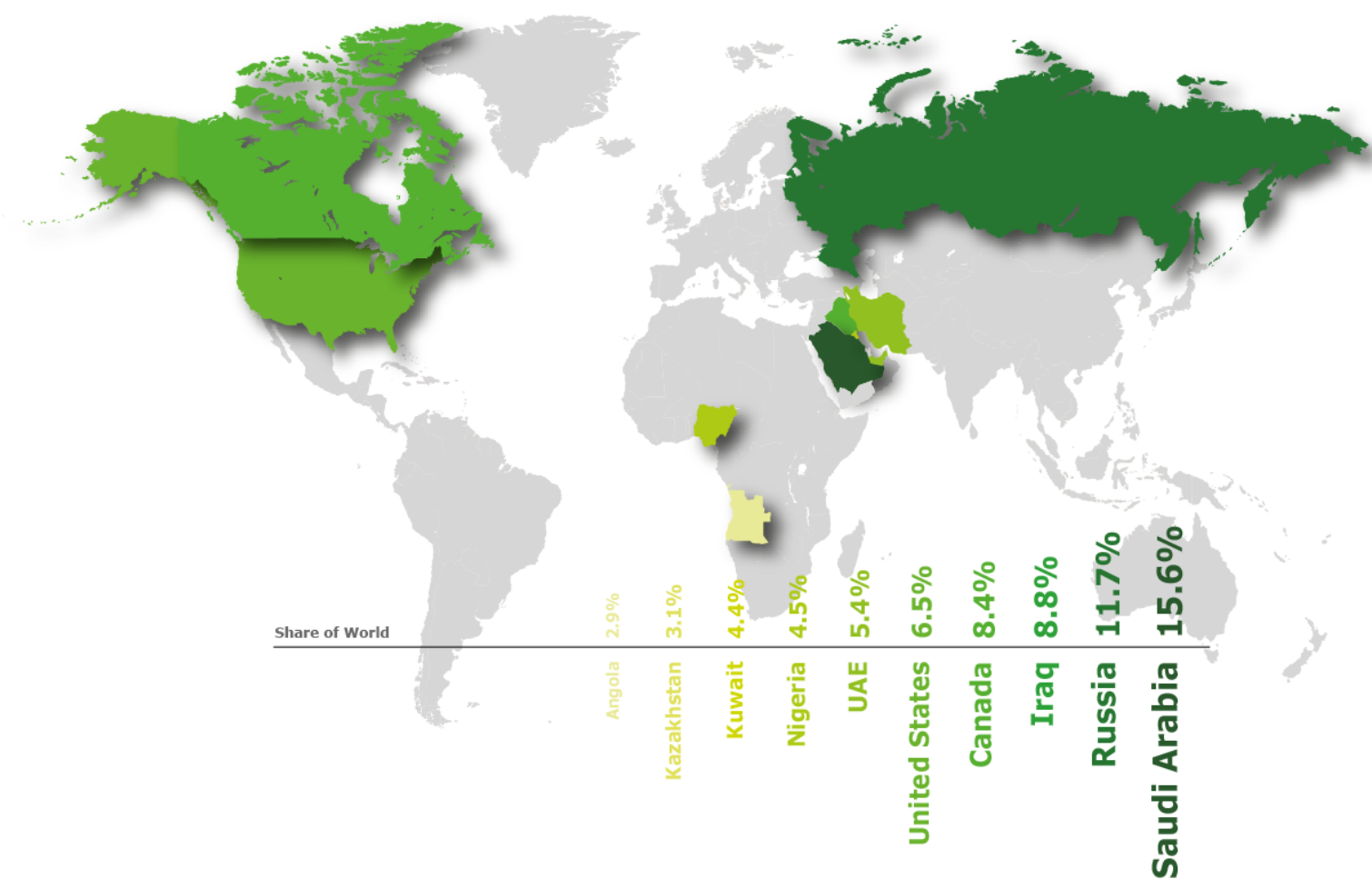
^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* and Wood MacKenzie data. All rights reserved.

The World Top 10 Exporters^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Saudi Arabia	6,253	7,209	6,644	7,163	7,463	6,968	7,372	7,038	-4.5%	0.6%
Russia	2,916	5,100	4,912	4,937	5,105	5,092	5,103	5,273	3.3%	3.2%
Iraq	2,040	1,472	1,890	3,005	3,804	3,802	3,862	3,968	2.8%	3.6%
Canada	1,380	1,578	1,948	3,029	3,104	3,318	3,651	3,778	3.5%	5.4%
United States	52	34	42	465	593	1,158	2,003	2,912	45.4%	23.6%
United Arab Emirates	1,815	2,195	2,104	2,441	2,408	2,379	2,296	2,414	5.1%	1.5%
Nigeria	1,986	2,326	2,464	2,114	1,738	1,811	1,979	2,008	1.5%	0.1%
Kuwait	1,231	1,651	1,430	1,964	2,128	2,010	2,050	1,986	-3.1%	2.6%
Kazakhstan	588	1,093	1,386	1,272	1,219	1,374	1,406	1,412	0.4%	4.7%
Angola	749	947	1,711	1,711	1,670	1,577	1,421	1,319	-7.2%	3.0%
Rest of the World	19,469	19,239	17,071	13,957	14,773	15,105	14,593	12,940	-11.3%	-2.1%
World	38,478	42,844	41,601	42,059	44,005	44,594	45,737	45,049	-1.5%	0.8%

The World Top 10 (2019)



^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe										
Albania	0	0	9	18	16	9	11	9	-12.5%	
Austria	1	0	0	0	0	0	0	0		-100.0%
Belarus	7	27	0	32	32	32	33	33	0.6%	8.5%
Croatia	1	0	0	0	0	0	0	0		-100.0%
Czech Republic	2	1	0	1	1	0	0	0		-100.0%
Denmark	275	273	154	90	78	82	56	46	-18.1%	-9.0%
Germany	64	14	14	7	2	0	0	2		-16.4%
Greece	0	18	17	2	3	3	4	5	20.3%	
Hungary	0	7	0	2	1	3	8	3	-64.3%	
Ireland	0	0	2	0	0	6	0	1		
Italy	0	15	6	14	12	15	10	0	-100.0%	
Lithuania	6	3	2	1	1	1	1	0	-100.0%	-100.0%
Netherlands	4	21	10	6	7	8	9	8	-9.4%	4.1%
Norway	2,875	2,316	1,586	1,223	1,363	1,348	1,243	1,222	-1.7%	-4.4%
Poland	3	5	4	5	4	4	6	5	-17.9%	3.4%
Romania	0	0	2	1	0	1	0	0		
Slovakia	0	1	0	1	0	1	0	0	-25.0%	-7.0%
Sweden	0	0	0	0	0	16	0	6		
Ukraine	5	2	0	0	0	2	0	0		-100.0%
United Kingdom	1,719	978	733	589	616	686	810	817	0.9%	-3.8%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia										
Russia	2,916	5,100	4,912	4,937	5,105	5,092	5,103	5,273	3.3%	3.2%
Azerbaijan	113	286	853	657	650	610	606	585	-3.5%	9.0%
Georgia	2	1	1	3	0	0	0	0	-100.0%	-100.0%
Kazakhstan	588	1,093	1,386	1,272	1,219	1,374	1,406	1,412	0.4%	4.7%
Kyrgyzstan	0	0	0	0	0	0	1	1	-29.1%	
Turkmenistan	32	50	26	69	50	34	31	30	-3.3%	-0.3%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East										
Iran	2,492	2,394	2,248	1,081	1,922	2,125	1,850	651	-64.8%	-6.8%
Iraq	2,040	1,472	1,890	3,005	3,804	3,802	3,862	3,968	2.8%	3.6%
Kuwait	1,231	1,651	1,430	1,964	2,128	2,010	2,050	1,986	-3.1%	2.6%
Oman	895	718	745	844	882	806	793	839	5.9%	-0.3%
Qatar	607	697	650	580	576	527	540	535	-0.9%	-0.7%
Saudi Arabia	6,253	7,209	6,644	7,163	7,463	6,968	7,372	7,038	-4.5%	0.6%
Syria	331	208	163	0	0	0	0	0		-100.0%
United Arab Emirates	1,815	2,195	2,104	2,441	2,408	2,379	2,296	2,414	5.1%	1.5%
Yemen	368	296	183	9	0	0	0	0		-100.0%

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa										
Algeria	462	968	709	642	668	633	571	584	2.3%	1.2%
Angola	749	947	1,711	1,711	1,670	1,577	1,421	1,319	-7.2%	3.0%
Cameroon	113	82	56	84	83	69	62	59	-4.5%	-3.3%
Chad	0	174	122	111	103	104	101	116	15.6%	
Congo	272	235	288	227	254	261	307	309	0.7%	0.7%
Côte d'Ivoire	7	40	38	27	30	37	31	48	55.3%	10.9%
Dem. Rep. Congo	24	25	22	21	20	24	27	18	-32.7%	-1.5%
Egypt	197	41	188	247	227	191	269	211	-21.6%	0.4%
Equatorial Guinea	91	275	206	182	158	125	121	110	-8.9%	1.0%
Gabon	300	249	225	206	205	188	174	207	18.9%	-1.9%
Ghana	0	0	0	104	85	163	158	165	4.7%	
Libya	1,005	1,306	1,299	288	350	792	999	1,036	3.7%	0.2%
Mauritania	0	0	8	5	6	3	3	0	-100.0%	
Mozambique	0	0	1	0	0	0	0	0		
Nigeria	1,986	2,326	2,464	2,114	1,738	1,811	1,979	2,008	1.5%	0.1%
South Africa	4	0	0	0	0	0	0	0		-100.0%
Sudan	132	236	387	12	7	6	7	7	0.0%	-14.4%
Tunisia	61	59	77	38	37	33	28	26	-7.9%	-4.4%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific										
Australia	380	226	311	219	198	178	213	246	16.0%	-2.3%
Brunei	183	198	148	116	105	98	92	107	16.7%	-2.8%
China	207	162	61	57	59	97	53	16	-69.2%	-12.5%
Indonesia	610	433	323	315	344	281	204	71	-65.0%	-10.7%
Malaysia	347	382	345	324	334	301	316	253	-19.9%	-1.7%
Mongolia	0	1	6	22	22	21	17	18	6.1%	27.4%
Myanmar	2	7	0	2	3	5	5	5	0.0%	5.5%
New Zealand	24	12	47	39	30	26	21	22	0.7%	-0.5%
Pakistan	9	0	0	6	4	8	13	13	-2.3%	2.0%
Papua New Guinea	73	47	9	0	0	0	0	0		-100.0%
Philippines	0	15	19	16	15	13	10	10	0.5%	
Singapore	0	3	9	15	15	16	13	13	1.2%	
Thailand	9	66	29	1	31	33	31	26	-16.5%	5.4%
Vietnam	308	361	161	184	137	136	79	73	-8.3%	-7.3%

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas										
Argentina	278	149	56	37	45	29	59	85	44.5%	-6.0%
Barbados	1	1	1	1	1	1	1	1	68.9%	0.7%
Bolivia	4	4	0	1	0	0	0	0		-100.0%
Brazil	19	275	632	737	847	1,042	1,078	1,224	13.5%	24.6%
Canada	1,380	1,578	1,948	3,029	3,104	3,318	3,651	3,778	3.5%	5.4%
Colombia	385	229	470	790	626	630	597	617	3.3%	2.5%
Ecuador	239	344	326	390	370	355	345	349	1.1%	2.0%
Guatemala	19	16	10	9	7	8	6	7	13.1%	-5.1%
Mexico	1,831	2,002	1,446	1,235	1,265	1,252	1,271	1,187	-6.7%	-2.3%
Peru	14	13	19	8	2	2	7	7	10.4%	-3.3%
Suriname	2	0	0	0	0	0	0	0		-100.0%
Trinidad and Tobago	52	72	45	31	28	27	22	48	117.8%	-0.5%
United States	52	34	42	465	593	1,158	2,003	2,912	45.4%	23.6%
Venezuela	2,004	2,198	1,562	1,974	1,835	1,596	1,273	847	-33.5%	-4.4%

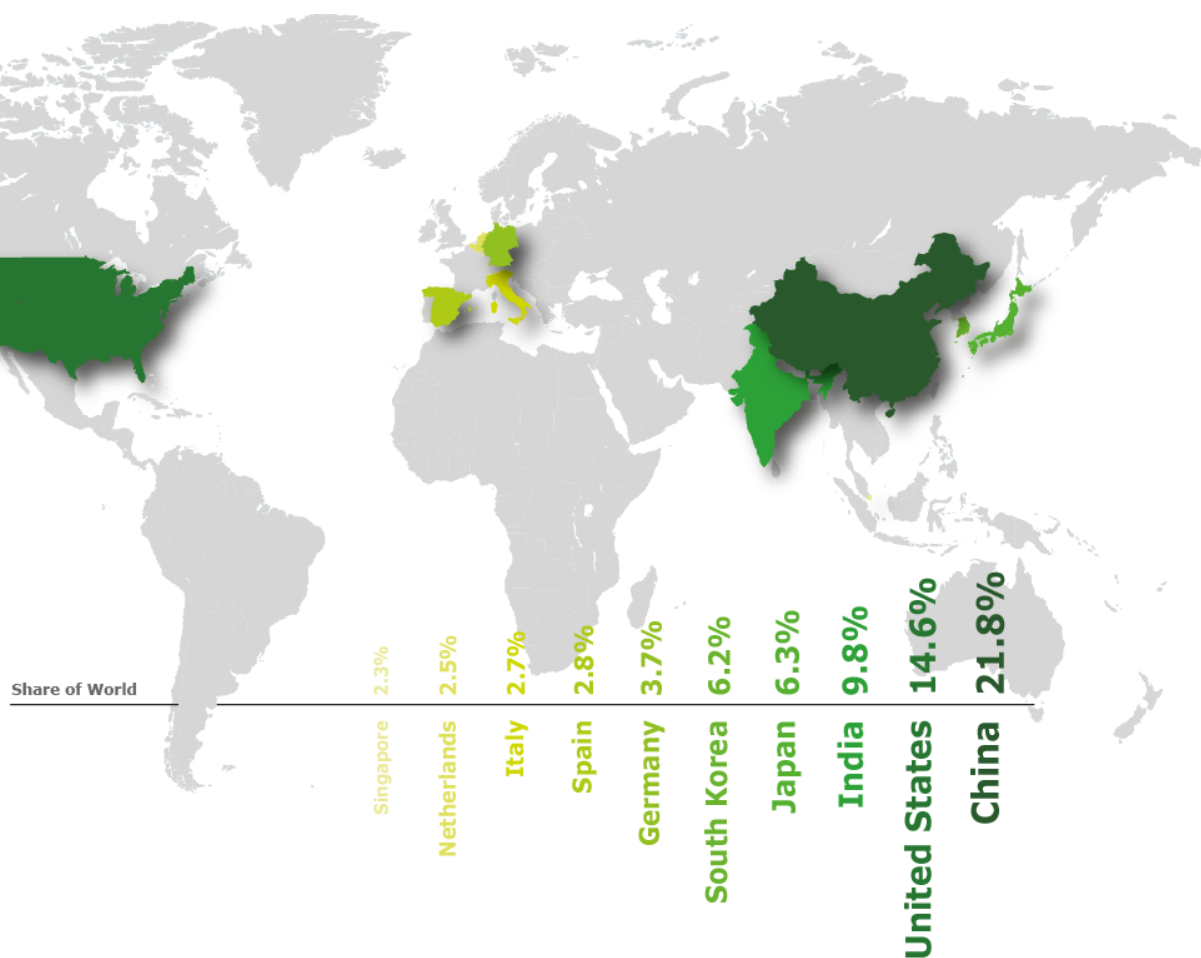
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The World Top 10 Importers^(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
China	1,409	2,543	4,767	6,728	7,641	8,412	9,262	10,142	9.5%	10.9%
United States	9,815	10,921	9,862	7,363	7,872	7,973	7,761	6,788	-12.5%	-1.9%
India	1,510	2,026	3,335	4,135	4,361	4,493	4,620	4,579	-0.9%	6.0%
Japan	4,205	4,173	3,436	3,203	3,137	3,158	2,995	2,953	-1.4%	-1.8%
South Korea	2,437	2,380	2,355	2,755	2,905	3,012	3,006	2,896	-3.6%	0.9%
Germany	2,074	2,246	1,865	1,825	1,825	1,815	1,704	1,721	1.0%	-1.0%
Spain	1,150	1,191	1,049	1,295	1,283	1,319	1,352	1,326	-1.9%	0.8%
Italy	1,673	1,790	1,570	1,251	1,218	1,327	1,241	1,263	1.8%	-1.5%
Netherlands	1,089	1,046	1,023	1,046	1,083	1,081	1,086	1,142	5.1%	0.2%
Singapore	842	1,180	896	976	1,042	1,144	1,117	1,049	-6.1%	1.2%
Rest of the World	13,027	14,255	12,770	12,677	12,542	12,920	12,873	12,734	-1.1%	-0.1%
World	39,231	43,752	42,928	43,253	44,909	46,654	47,016	46,593	-0.9%	0.9%

The World Top 10 (2019)



^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe										
Austria	143	157	135	162	147	144	167	172	3.1%	1.0%
Belarus	240	386	295	458	363	363	365	360	-1.3%	2.2%
Belgium	678	639	668	642	637	682	660	690	4.5%	0.1%
Bosnia-Herzegovina	11	3	23	19	19	17	14	18	25.4%	2.8%
Bulgaria	106	121	109	122	124	138	118	137	16.3%	1.4%
Croatia	80	81	72	47	51	57	56	37	-32.6%	-3.9%
Cyprus	23	0	0	0	0	0	0	0		-100.0%
Czech Republic	114	155	155	143	107	156	149	155	4.0%	1.6%
Denmark	82	54	54	83	77	96	94	101	6.8%	1.1%
Finland	217	191	215	203	221	237	236	236	0.2%	0.5%
France	1,698	1,685	1,283	1,135	1,085	1,138	1,051	967	-8.0%	-2.9%
Germany	2,074	2,246	1,865	1,825	1,825	1,815	1,704	1,721	1.0%	-1.0%
Greece	387	374	403	442	469	473	487	457	-6.2%	0.9%
Hungary	116	129	115	124	120	119	134	122	-8.5%	0.3%
Ireland	59	65	61	73	64	64	60	52	-13.1%	-0.7%
Italy	1,673	1,790	1,570	1,251	1,218	1,327	1,241	1,263	1.8%	-1.5%
Lithuania	94	107	122	126	126	126	125	193	53.8%	3.9%
Macedonia	16	20	17	0	0	0	0	0		-100.0%
Netherlands	1,089	1,046	1,023	1,046	1,083	1,081	1,086	1,142	5.1%	0.2%
Norway	18	16	11	22	11	36	63	61	-1.8%	6.6%
Poland	360	358	454	530	491	493	537	532	-0.8%	2.1%
Portugal	235	261	220	282	269	284	252	225	-10.8%	-0.2%
Romania	98	179	120	136	154	159	170	178	4.6%	3.2%
Serbia	6	62	38	37	45	50	55	47	-14.0%	11.7%
Slovakia	107	110	109	118	117	112	109	103	-5.4%	-0.2%
Slovenia	2	0	0	0	0	0	0	0		-100.0%
Spain	1,150	1,191	1,049	1,295	1,283	1,319	1,352	1,326	-1.9%	0.8%
Sweden	419	402	397	402	394	397	398	341	-14.4%	-1.1%
Switzerland	92	95	90	56	59	57	60	55	-9.5%	-2.7%
Turkey	433	468	339	501	499	515	419	622	48.2%	1.9%
Ukraine	116	292	155	5	10	18	14	15	2.9%	-10.3%
United Kingdom	845	1,044	953	847	792	885	883	902	2.1%	0.3%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia										
Russia	119	49	0	58	0	0	0	0		-100.0%
Azerbaijan	0	0	0	0	0	1	0	0		
Georgia	0	0	0	3	1	1	0	0	-100.0%	
Kazakhstan	20	75	120	1	0	1	1	1	6.3%	-16.3%
Kyrgyzstan	0	0	0	4	5	6	8	8	0.0%	16.5%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East										
Bahrain	71	80	85	66	58	67	69	67	-3.0%	-0.3%
Iran	12	43	13	0	0	0	0	0		-100.0%
Israel	211	204	221	234	207	234	231	247	7.0%	0.8%
Jordan	74	90	68	68	58	56	47	47	-0.7%	-2.4%
Syria	0	0	0	110	102	98	91	90	-1.0%	
Yemen	16	0	0	0	0	0	0	0		-100.0%

^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2020) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Countries(*)

Crude and non conventional oil
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa										
Algeria	6	6	6	6	5	5	5	3	-37.1%	-3.0%
Cameroon	31	30	34	28	27	22	20	19	-4.5%	-2.5%
Côte d'Ivoire	59	76	59	62	34	48	47	55	17.1%	-0.4%
Egypt	0	50	73	64	119	125	204	173	-14.9%	
Ghana	26	39	33	6	29	5	4	4	4.7%	-9.2%
Kenya	49	35	31	14	15	16	16	16	-1.4%	-5.7%
Madagascar	9	10	0	0	0	0	0	0		-100.0%
Morocco	143	144	109	56	0	0	0	0		-100.0%
Senegal	18	20	13	22	23	25	21	21	1.4%	0.9%
Sierra Leone	4	3	3	4	4	4	4	0	-100.0%	-100.0%
Somalia	2	0	0	0	0	0	0	0		-100.0%
South Africa	393	405	385	364	366	349	379	394	3.9%	0.0%
Sudan	0	0	0	6	18	14	23	23	0.0%	
Tunisia	24	23	4	19	19	13	11	9	-19.5%	-5.3%
Zambia	1	8	13	13	10	10	12	12	-3.0%	17.5%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific										
Australia	372	379	469	315	330	331	357	325	-8.9%	-0.7%
Bangladesh	26	22	26	22	27	24	22	24	8.9%	-0.5%
China	1,409	2,543	4,767	6,728	7,641	8,412	9,262	10,142	9.5%	10.9%
India	1,510	2,026	3,335	4,135	4,361	4,493	4,620	4,579	-0.9%	6.0%
Indonesia	224	332	284	384	415	396	316	208	-34.3%	-0.4%
Japan	4,205	4,173	3,436	3,203	3,137	3,158	2,995	2,953	-1.4%	-1.8%
Malaysia	148	164	159	171	222	207	203	259	27.8%	3.0%
Myanmar	13	0	0	0	0	0	0	0		-100.0%
New Zealand	90	90	98	102	106	110	99	103	3.7%	0.7%
North Korea	8	10	11	11	11	11	11	11	3.3%	1.8%
Pakistan	144	176	136	177	177	211	226	228	0.9%	2.5%
Papua New Guinea	0	18	20	13	27	28	26	30	13.3%	
Philippines	314	215	184	213	215	211	233	230	-1.2%	-1.6%
Singapore	842	1,180	896	976	1,042	1,144	1,117	1,049	-6.1%	1.2%
South Korea	2,437	2,380	2,355	2,755	2,905	3,012	3,006	2,896	-3.6%	0.9%
Sri-lanka	47	40	36	34	34	30	32	32	1.4%	-2.0%
Taiwan	743	1,045	876	841	859	853	880	889	1.0%	0.9%
Thailand	676	828	849	891	878	927	980	888	-9.4%	1.4%
Vietnam	0	0	0	4	9	24	39	2	-96.1%	

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

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas										
Argentina	26	4	0	16	15	22	10	13	24.0%	-3.9%
Brazil	398	343	339	298	155	145	186	189	1.7%	-3.8%
Canada	912	928	770	570	806	822	759	784	3.3%	-0.8%
Chile	193	204	158	169	169	175	171	183	7.0%	-0.3%
Colombia	4	7	0	0	0	0	0	0		-100.0%
Costa Rica	1	11	10	0	0	0	0	0		-100.0%
Cuba	29	39	89	78	66	60	52	50	-5.0%	2.9%
Dominican Republic	41	42	27	16	23	20	25	25	0.0%	-2.6%
El Salvador	19	20	15	0	0	0	0	0		-100.0%
Guatemala	17	5	0	0	0	0	0	0		-100.0%
Jamaica	21	9	23	24	24	20	21	21	-1.7%	0.0%
Mexico	0	0	0	0	0	0	4	0	-98.4%	
Nicaragua	16	15	15	15	12	14	13	13	0.1%	-1.2%
Netherland Antilles	222	232	89	185	162	136	118	118	-0.1%	-3.3%
Panama	44	0	0	0	0	0	0	0		-100.0%
Paraguay	2	1	0	0	0	0	0	0		-100.0%
Peru	62	98	97	87	107	128	115	100	-13.2%	2.5%
Trinidad and Tobago	97	92	68	78	101	88	63	3	-95.4%	-16.9%
United States	9,815	10,921	9,862	7,363	7,872	7,973	7,761	6,788	-12.5%	-1.9%
Uruguay	35	41	39	40	41	10	43	43	-0.1%	1.1%

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Crude Future Prices and Open Interests^(*)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Crude Future Prices										
(US\$/barrel)										
ICE Brent	28.5	55.3	80.3	53.6	45.1	54.7	71.7	64.2	-10.5%	4.4%
CME WTI	30.3	56.7	79.6	48.8	43.5	50.9	64.9	57.0	-12.1%	3.4%
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	2,379,096	0.4%	12.2%
CME WTI	469,685	819,675	1,341,531	1,679,710	1,818,925	2,282,425	2,378,026	2,077,109	-12.7%	8.1%

ICE Brent Price 1 Month^(*)

(US\$/barrel)



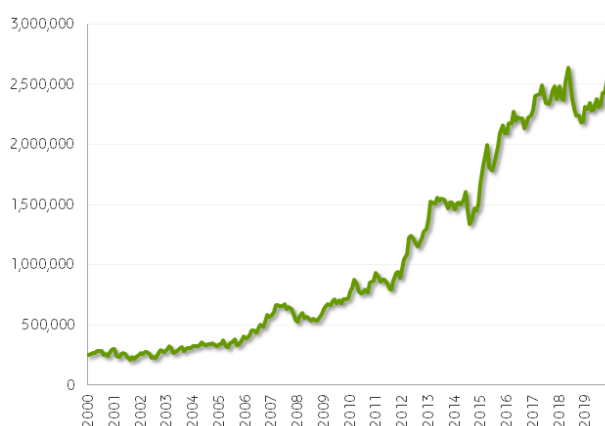
WTI vs Brent 1 Month Differential^(*)

(US\$/barrel)



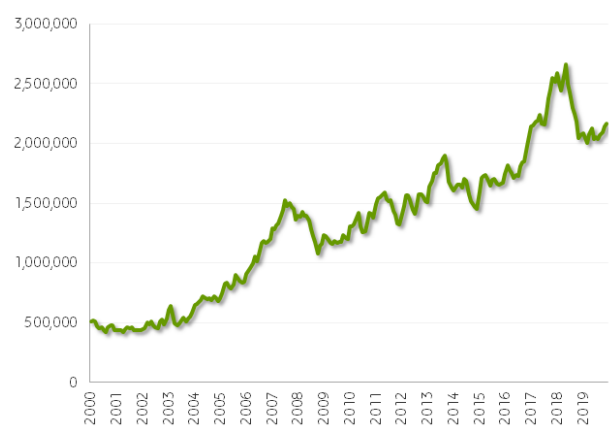
ICE Brent Total Open Interests^(*)

(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	2019	Share of total	
									2000	2019
World (A)	68,239	74,746	74,790	80,852	80,639	80,685	82,470	81,971		
Ultra Light	1,211	1,840	2,158	2,888	2,859	2,816	2,869	2,950	1.8%	3.6%
Light & Sweet	14,960	13,771	13,652	14,904	14,182	15,108	17,134	18,341	21.9%	22.4%
Light & Medium Sour	2,675	2,948	3,975	4,086	3,906	4,126	4,159	4,224	3.9%	5.2%
Light & Sour	2,430	2,360	2,179	2,488	2,539	2,613	2,738	2,777	3.6%	3.4%
Medium & Sweet	6,965	8,528	8,392	8,894	8,118	8,353	8,000	8,364	10.2%	10.2%
Medium & Medium Sour	2,599	2,742	2,955	3,138	3,209	3,275	3,753	4,026	3.8%	4.9%
Medium & Sour	28,160	31,763	30,851	32,392	34,083	32,930	32,519	30,397	41.3%	37.1%
Heavy & Sweet	1,168	1,373	1,694	1,524	1,513	1,364	1,380	1,489	1.7%	1.8%
Heavy & Medium Sour	1,851	2,168	2,513	2,522	2,337	2,256	2,144	1,746	2.7%	2.1%
Heavy & Sour	5,456	6,454	5,723	7,339	7,275	7,247	7,185	7,061	8.0%	8.6%
Unassigned production: (B)	765	799	698	676	620	598	589	596	1.1%	0.7%
% Unassigned production (B/A)	1.1	1.1	0.9	0.8	0.8	0.7	0.7	0.7		

Crude Production by Gravity^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
World	68,239	74,746	74,790	80,852	80,639	80,685	82,470	81,971		
Light	21,275	20,919	21,964	24,367	23,485	24,663	26,900	28,292	31.2%	34.5%
Medium	37,724	43,033	42,198	44,424	45,410	44,558	44,272	42,787	55.3%	52.2%
Heavy	8,474	9,996	9,930	11,385	11,125	10,866	10,709	10,296	12.4%	12.6%
Unassigned production	765	799	698	676	620	598	589	596	1.1%	0.7%

Crude Production by Sulphur Content^(*)

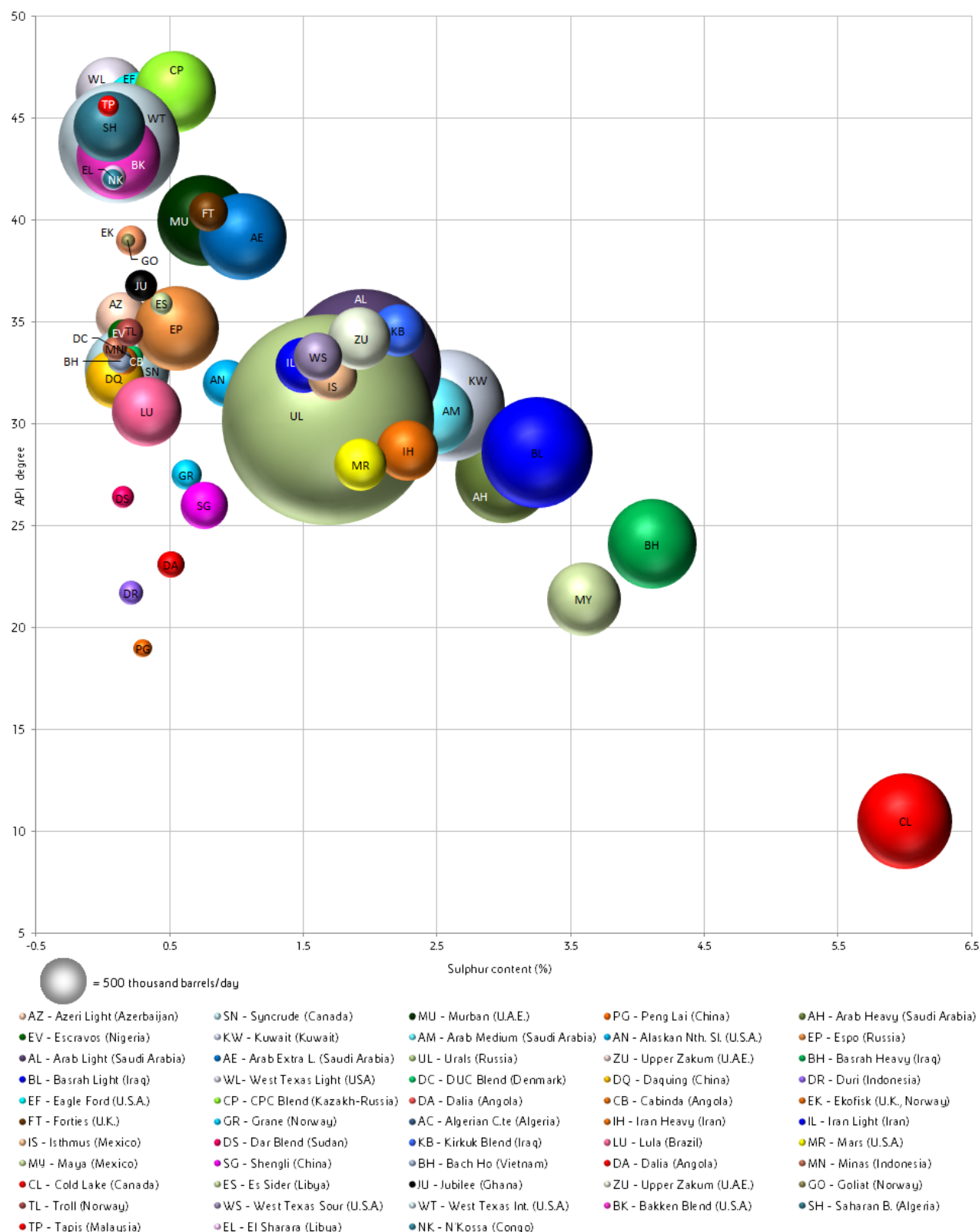
(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
World	68,239	74,746	74,790	80,852	80,639	80,685	82,470	81,971		
Sweet	24,304	25,513	25,896	28,210	26,671	27,641	29,383	31,144	35.6%	38.0%
Medium Sour	7,125	7,858	9,443	9,746	9,452	9,657	10,055	9,996	10.4%	12.2%
Sour	36,045	40,577	38,753	42,220	43,897	42,789	42,443	40,236	52.8%	49.1%
Unassigned production	765	799	698	676	620	598	589	596	1.1%	0.7%

^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

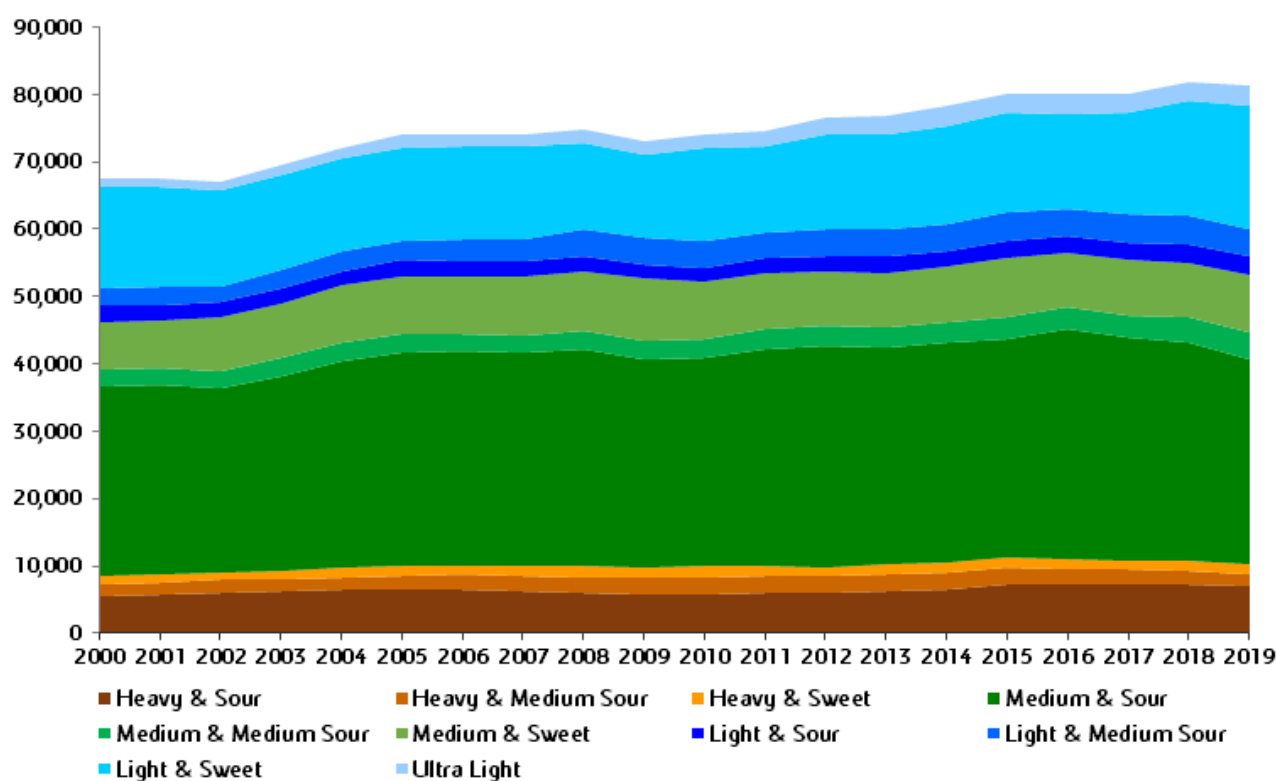
Quality and Production Volume of Main 2019 Crudes^(*)

(thousand barrels/day)

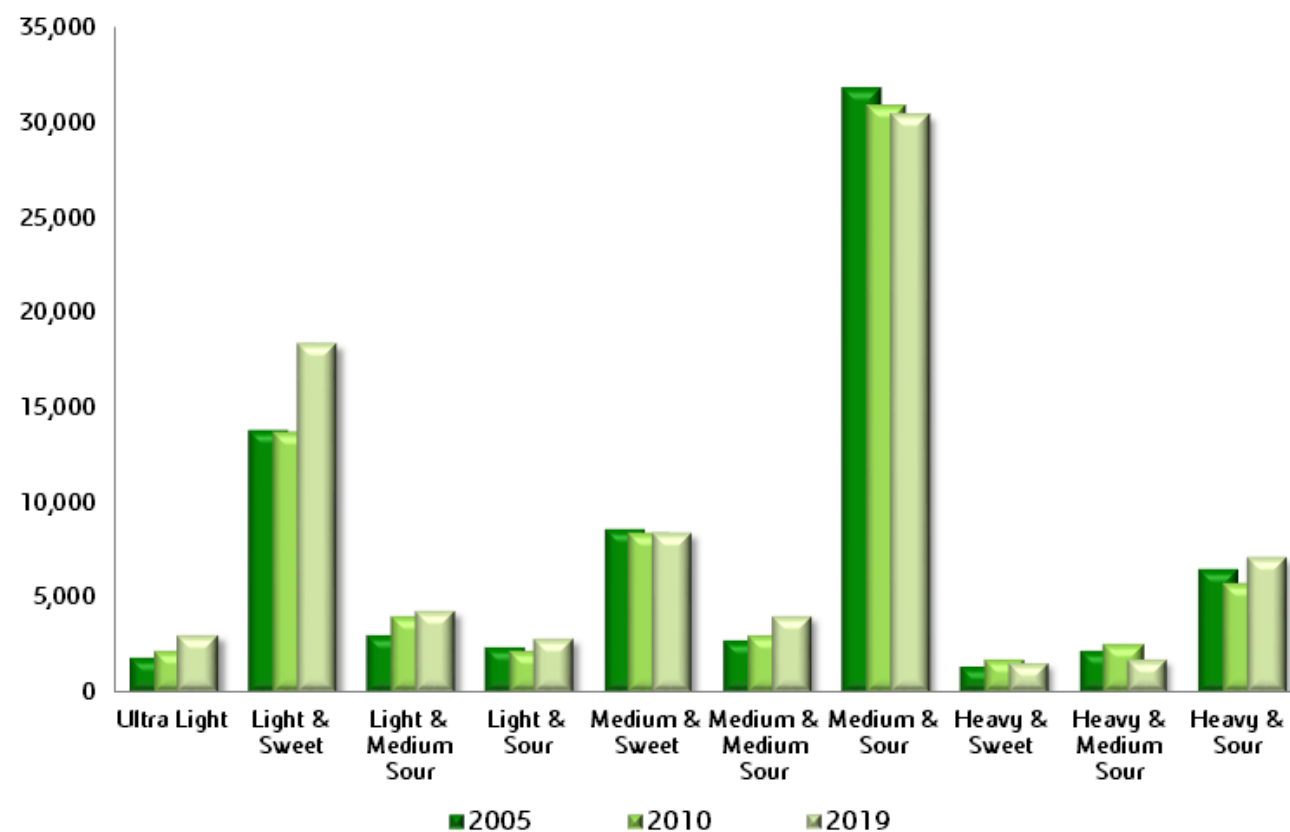
^(*) Data source: Eni.

Crude Production by Quality^(*)

(thousand barrels/day)

Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

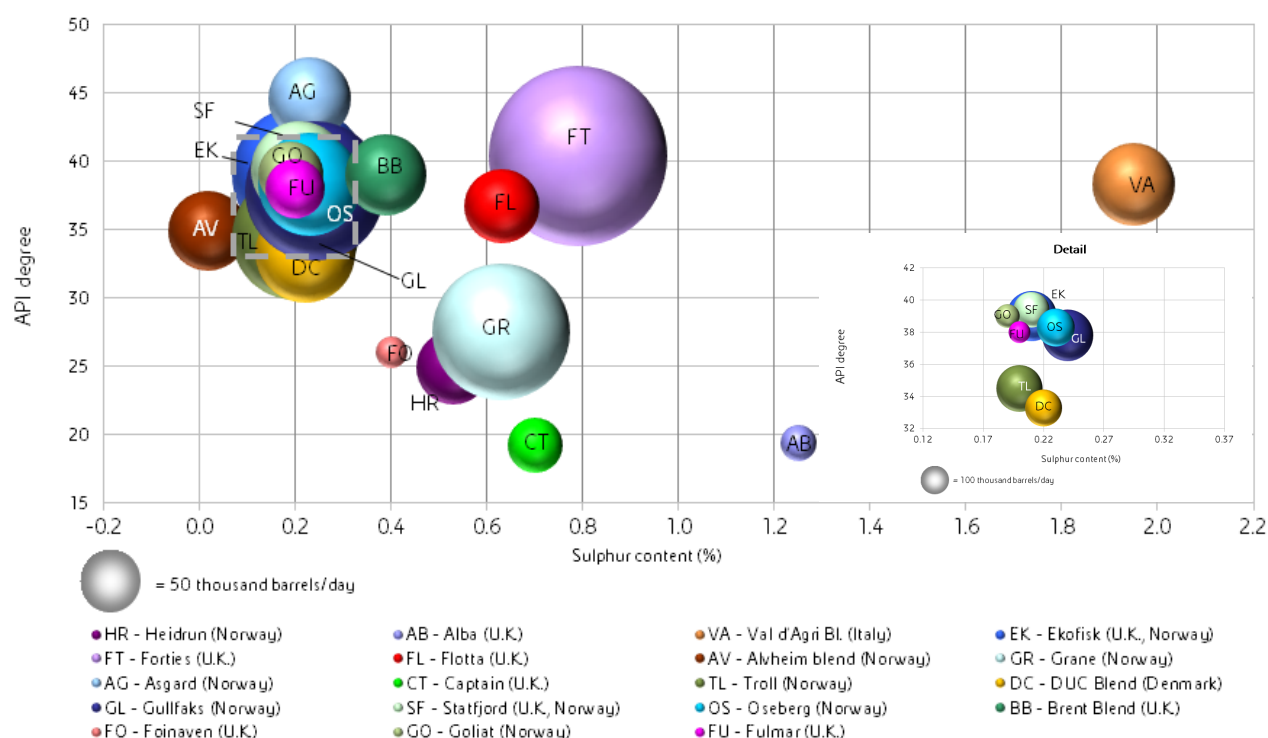
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Europe (A)	6,631	5,313	3,865	3,162	3,173	3,109	3,094	3,000		
Ultra Light	93	139	72	117	113	119	120	108	1.4%	3.6%
Light & Sweet	4,429	3,109	1,667	1,312	1,274	1,108	1,124	1,105	66.8%	36.8%
Light & Medium Sour	0	86	649	512	524	534	504	436		14.5%
Light & Sour	20	89	68	77	51	62	75	64	0.3%	2.1%
Medium & Sweet	1,011	890	553	449	495	487	410	338	15.3%	11.3%
Medium & Medium Sour	124	106	86	79	76	112	124	393	1.9%	13.1%
Medium & Sour	147	1	29	15	6	0	0	0	2.2%	
Heavy & Sweet	17	55	85	39	43	69	122	145	0.3%	4.8%
Heavy & Medium Sour	308	398	276	199	249	293	282	91	4.6%	3.0%
Heavy & Sour	99	79	57	40	39	32	32	26	1.5%	0.9%
Unassigned production (B)	383	362	322	323	304	293	301	294	5.8%	9.8%
% Unassigned production (B/A)	5.8	6.8	8.3	10.2	9.6	9.4	9.7	9.8		

Quality and Production Volume of Main Crudes 2019^(**)

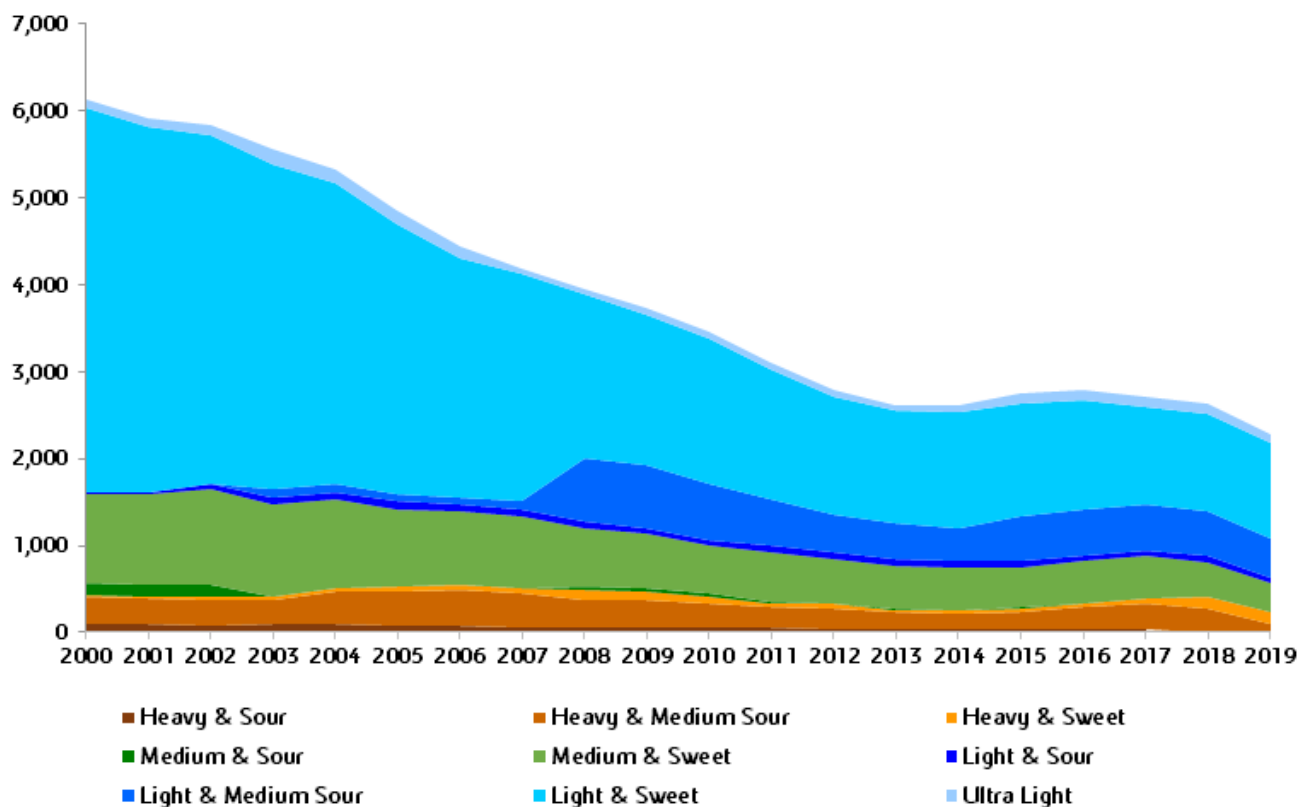
(thousand barrels/day)

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

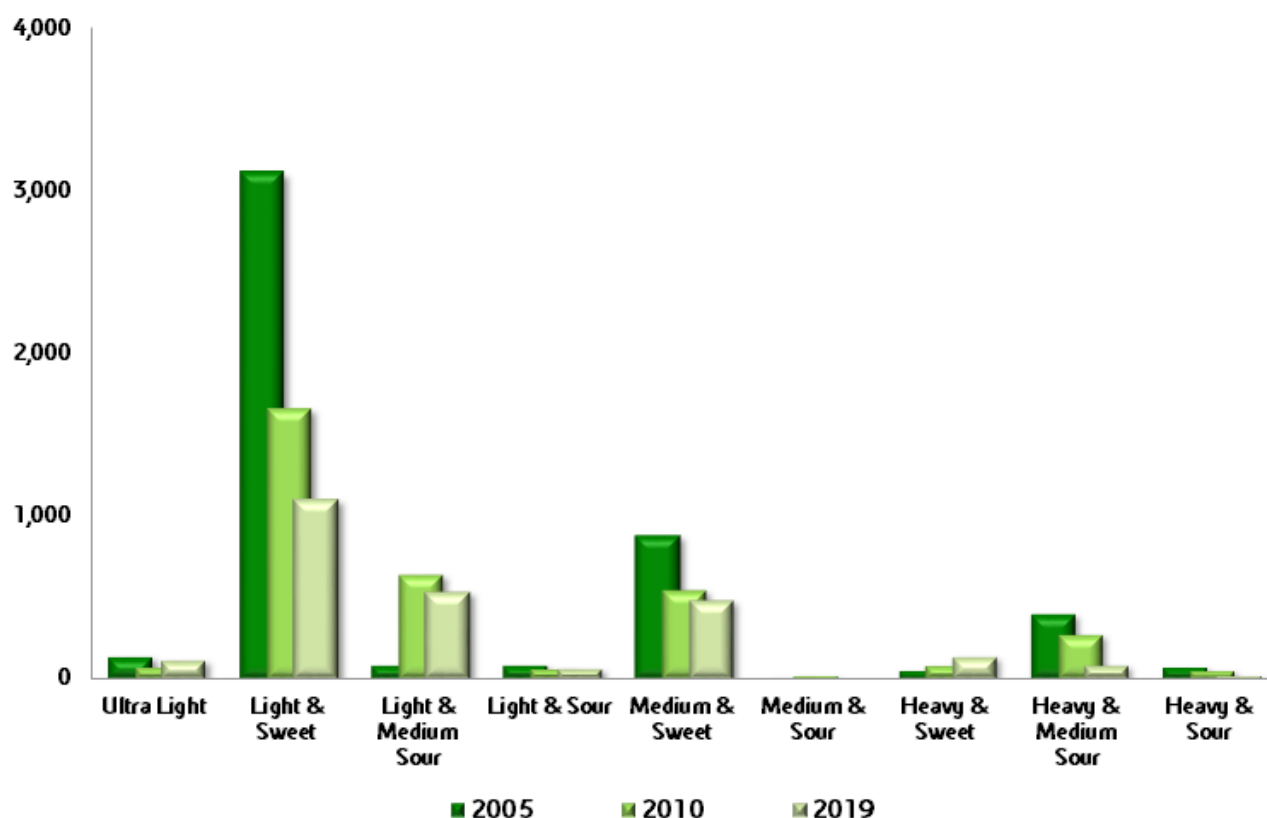
(**) Data source: Eni.

Crude Production by Quality^(*)

(thousand barrels/day)

Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Denmark	363	388	255	156	141	137	114	101		
Light & Sweet	132	120	24	9	9	7	5	4	36.4%	4.2%
Medium & Sweet	231	268	231	147	132	130	109	97	63.6%	95.8%
Italy	74	115	96	100	71	78	89	78		
Light & Sweet	31	4	6	1	0	0	0	0	41.3%	0.5%
Light & Sour	20	89	68	77	51	62	75	64	27.6%	82.1%
Medium & Sour	2	1							2.2%	
Heavy & Sour	21	21	21	23	20	16	14	14	29.0%	17.5%
Norway	3,207	2,690	1,871	1,610	1,648	1,617	1,515	1,437		
Ultra Light	93	139	72	117	113	119	120	108	2.9%	7.5%
Light & Sweet	2,386	1,774	1,242	1,031	969	856	809	717	74.4%	49.9%
Light & Medium Sour			31	14	14	11	8	5		0.4%
Medium & Sweet	546	459	275	271	322	326	278	232	17.0%	16.1%
Medium & Medium Sour					0	39	53	323		22.5%
Medium & Sour			29	15	6					
Heavy & Medium Sour	182	318	222	162	225	265	247	52	5.7%	3.6%
Romania	124	106	86	79	75	72	71	70		
Medium & Medium Sour	124	106	86	79	75	72	71	70	100.0%	100.0%
United Kingdom	2,480	1,652	1,235	894	934	912	1,004	1,020		
Light & Sweet	1,881	1,211	395	271	296	245	309	384	75.8%	37.7%
Light & Medium Sour		86	618	499	510	523	496	431		42.3%
Medium & Sweet	234	163	47	31	41	30	24	9	9.4%	0.9%
Medium & Sour	146								5.9%	
Heavy & Sweet	17	55	85	39	43	69	122	145	0.7%	14.2%
Heavy & Medium Sour	126	80	54	36	24	29	36	39	5.1%	3.8%
Heavy & Sour	78	58	36	18	19	16	18	12	3.1%	1.2%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

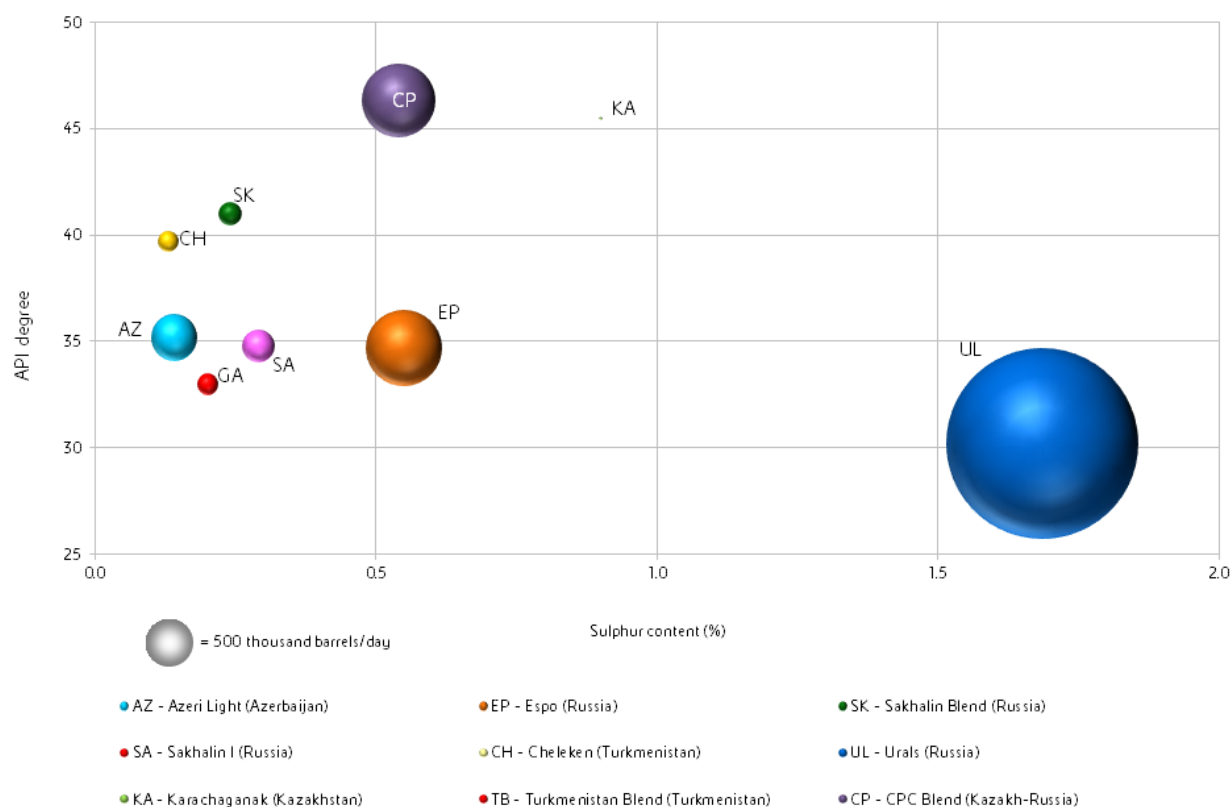
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Russia and Central Asia (A)	7,803	11,553	13,162	13,583	13,754	13,882	14,143	14,212		
Ultra Light	10	222	225	243	246	265	260	241	0.1%	1.7%
Light & Sweet	297	284	1,570	1,037	1,032	991	991	960	3.8%	6.8%
Light & Medium Sour	723	1,201	1,369	1,554	1,496	1,695	1,814	1,872	9.3%	13.2%
Light & Sour	42	46	30	13	15	12	19		0.5%	
Medium & Sweet	290	513	281	360	344	336	380	408	3.7%	2.9%
Medium & Medium Sour			318	1,069	1,104	1,164	1,373	1,463		10.3%
Medium & Sour	6,438	9,284	9,367	9,305	9,516	9,419	9,305	9,268	82.5%	65.2%
Heavy & Sweet										
Heavy & Medium Sour										
Heavy & Sour										
Unassigned production (B)	4	3	2	2	1	1	1	1	0.1%	0.0%
% Unassigned production (B/A)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Quality and Production Volume of Main Crudes 2019^(**)

(thousand barrels/day)

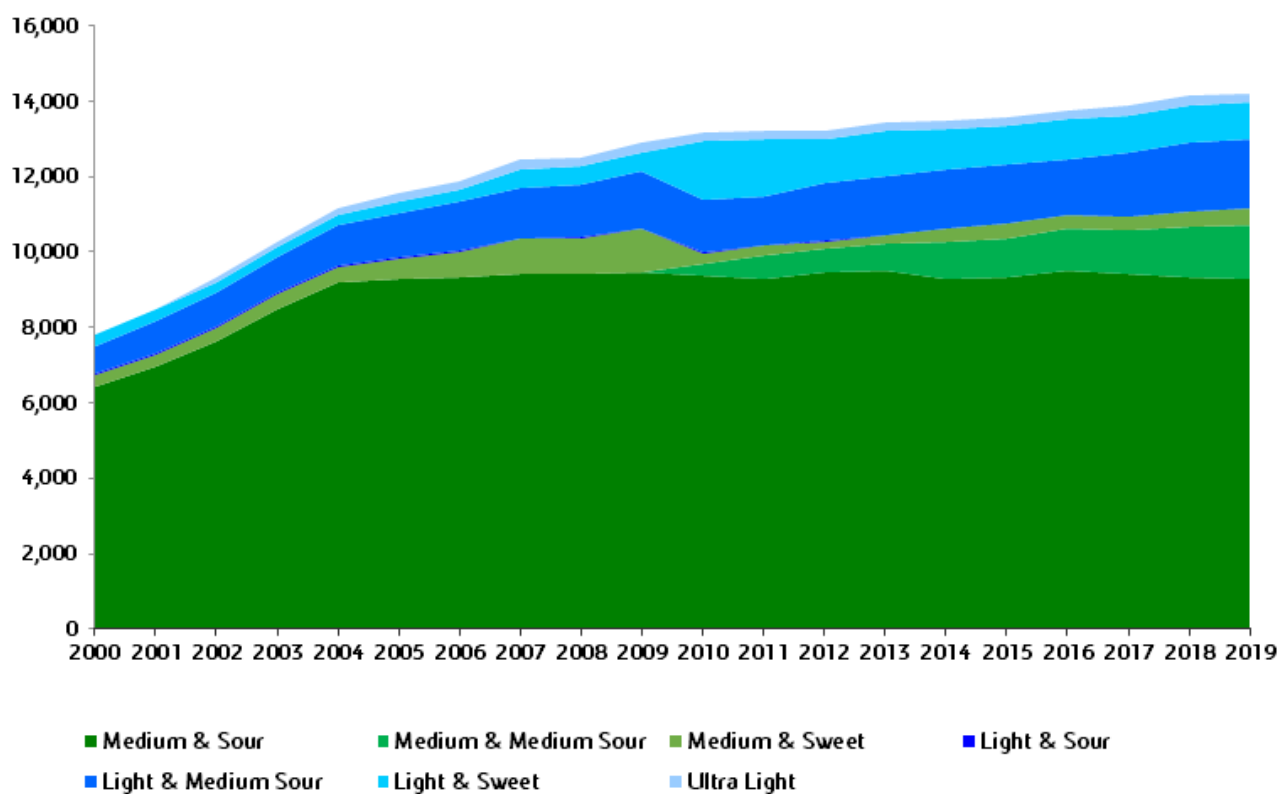


^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

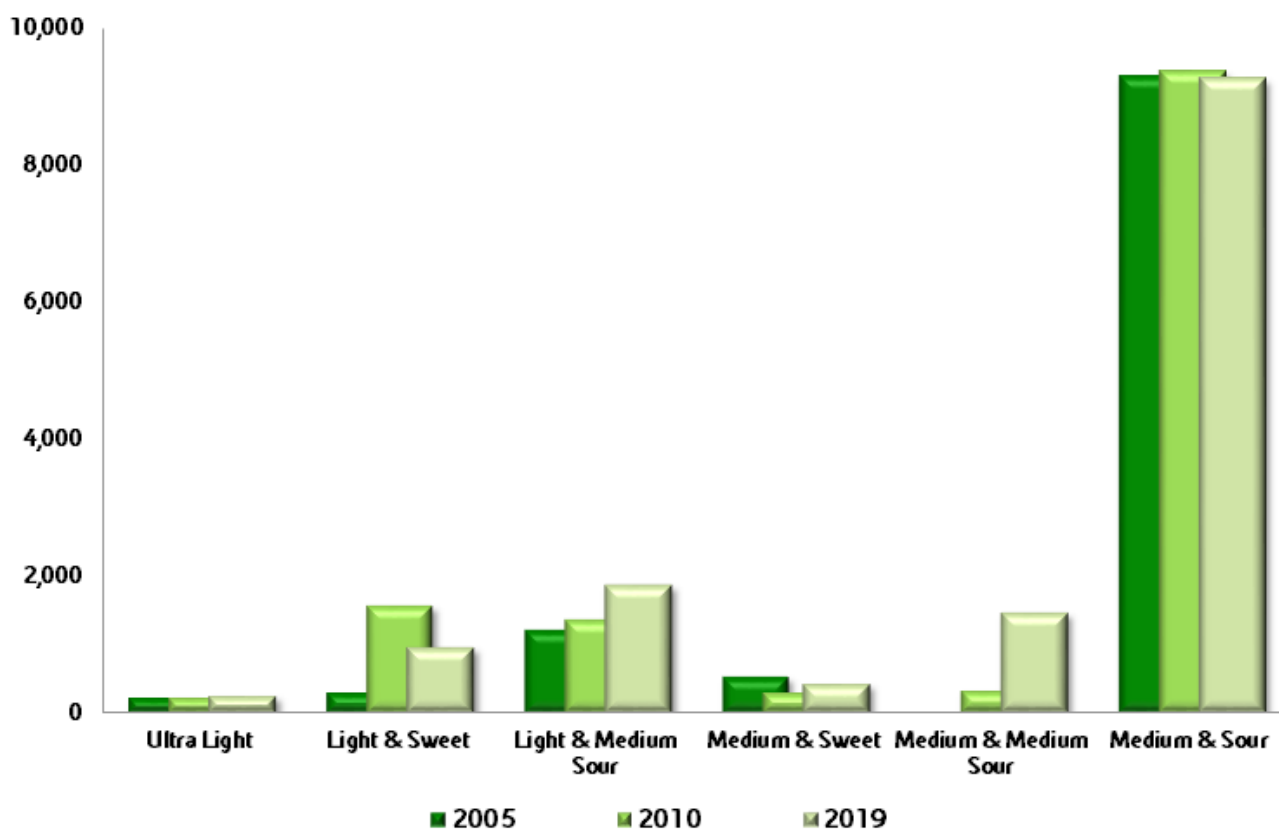
^(**) Data source: Eni.

Crude Production by Quality^(*)

(thousand barrels/day)

Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Russia	6,477	9,491	10,139	10,719	10,964	10,980	11,161	11,251		
Light & Sweet	148	139	267	109	118	126	124	121	2.3%	1.1%
Light & Medium Sour		130	136	103	76	120	147	160		1.4%
Medium & Sweet			96	172	183	186	236	260		2.3%
Medium & Medium Sour			318	1,069	1,104	1,164	1,373	1,463		13.0%
Medium & Sour	6,329	9,222	9,322	9,266	9,483	9,384	9,281	9,247	97.7%	82.2%
Azerbaijan	281	448	1,041	848	828	783	792	764		
Light & Sweet	149	145	1,012	820	803	758	766	739	53.0%	96.7%
Medium & Sweet	132	303	29	28	26	25	26	26	47.0%	3.3%
Kazakhstan	733	1,293	1,694	1,694	1,666	1,840	1,927	1,933		
Ultra Light	10	222	225	243	246	265	260	241	1.3%	12.4%
Light & Sweet			236							
Light & Medium Sour	723	1,071	1,233	1,451	1,420	1,575	1,667	1,692	98.7%	87.6%
Turkmenistan	158	210	211	268	247	232	219	223		
Light & Sweet			55	108	112	107	100	100		45.0%
Medium & Sweet	158	210	156	160	135	125	119	123	100.0%	55.0%
Uzbekistan	150	108	75	52	48	46	43	40		
Light & Medium Sour								19		48.0%
Light & Sour	42	46	30	13	15	12	19		27.8%	
Medium & Sour	108	62	45	39	33	34	24	21	72.2%	52.0%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

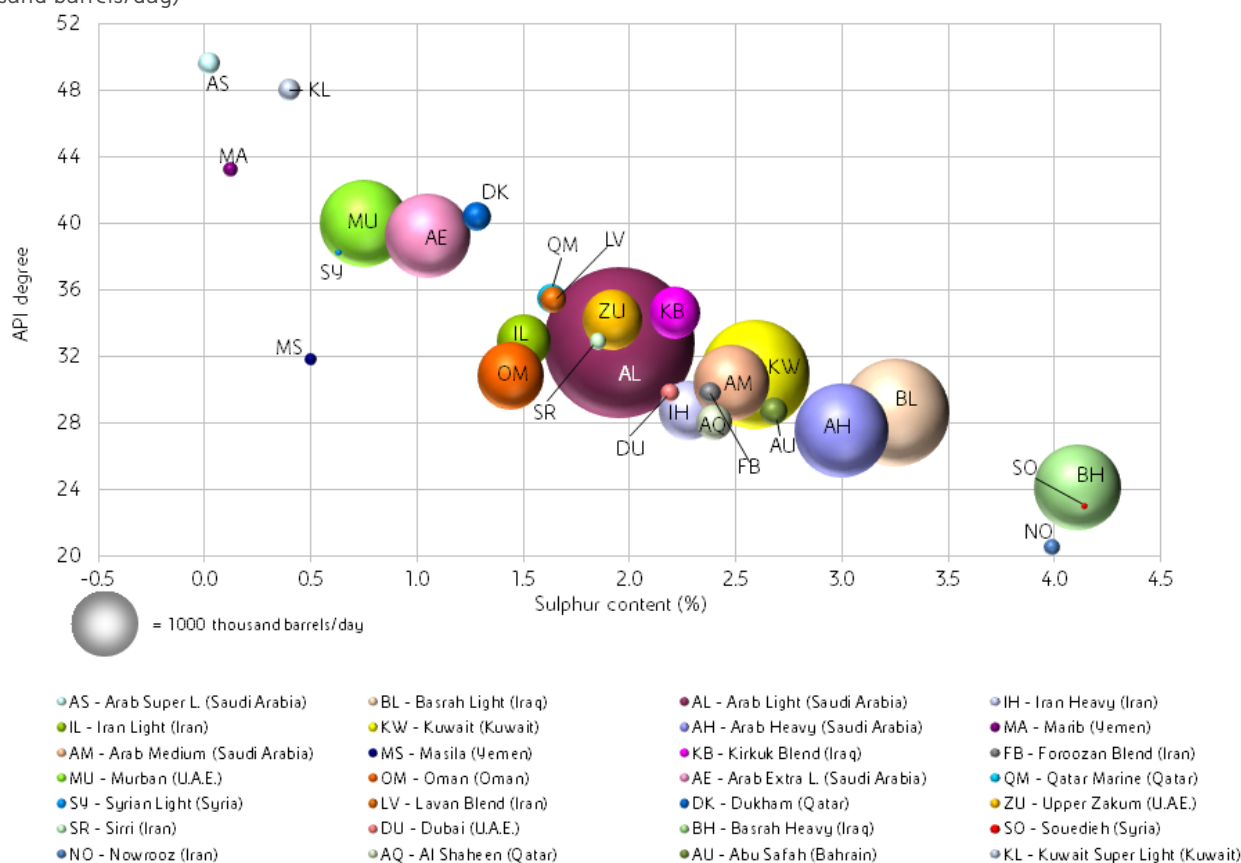
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Middle East	21,626	23,239	22,366	25,464	26,979	26,484	26,843	25,342		
Ultra Light		185	559	770	770	760	760	760		3.0%
Light & Sweet	308	228	132	128	118	110	174	237	1.4%	0.9%
Light & Medium Sour	1,368	1,434	1,509	1,650	1,536	1,581	1,546	1,669	6.3%	6.6%
Light & Sour	2,345	2,206	2,013	2,344	2,451	2,520	2,626	2,689	10.8%	10.6%
Medium & Sweet										
Medium & Medium Sour	302	297	210	16	16	42	63	30	1.4%	0.1%
Medium & Sour	16,839	18,286	17,338	19,115	20,517	19,830	20,001	18,184	77.9%	71.8%
Heavy & Sweet										
Heavy & Medium Sour										
Heavy & Sour	464	603	605	1,441	1,571	1,641	1,672	1,773	2.1%	7.0%

Quality and Production Volume of Main Crudes 2019^(**)

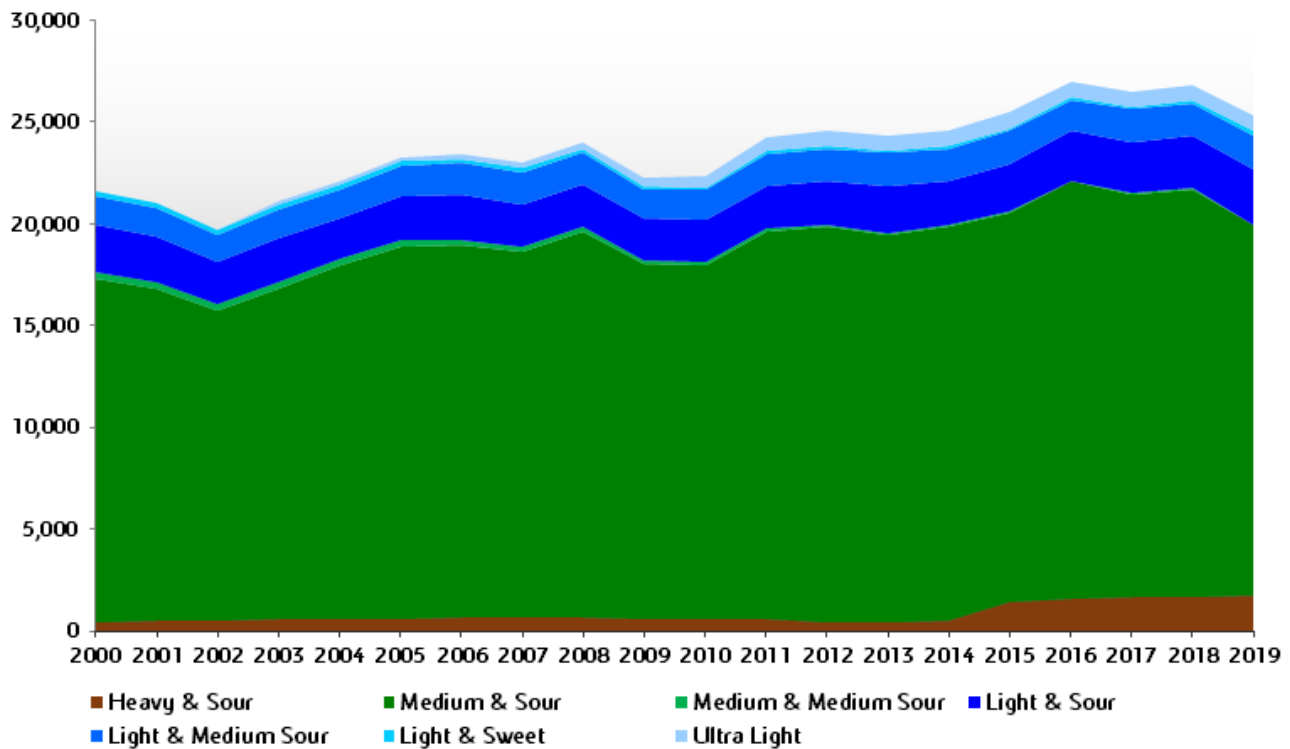
(thousand barrels/day)

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

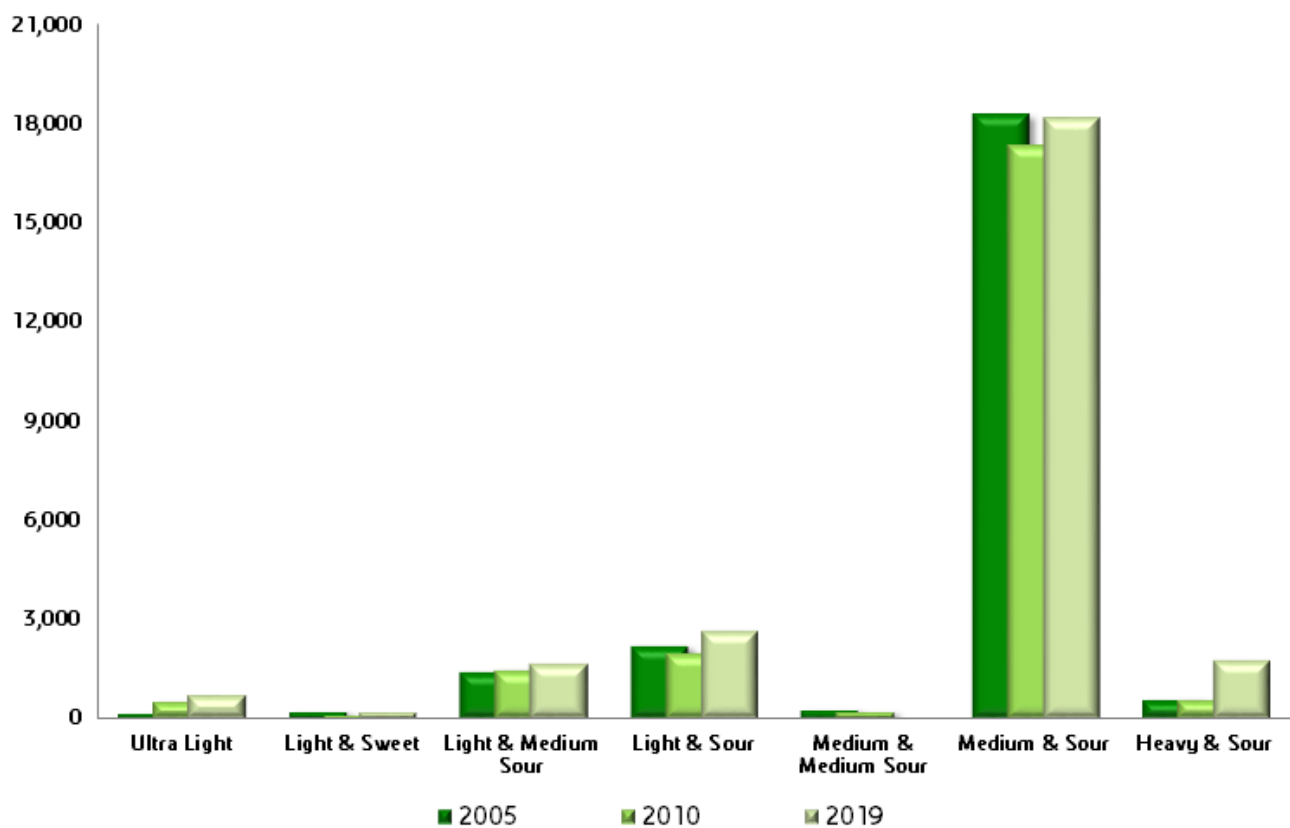
(**) Data source: Eni.

Crude Production by Quality^(*)

(thousand barrels/day)

Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Bahrain	187	187	182	202	202	200	197	197		
Medium & Sour	187	187	182	202	202	200	197	197	100.0%	100.0%
Iran	3,685	3,879	3,705	2,846	3,552	3,812	3,578	2,359		
Light & Sour						126	131	133		5.6%
Medium & Sour	3,685	3,771	3,558	2,728	3,432	3,561	3,317	2,097	100.0%	88.9%
Heavy & Sour		108	147	118	120	125	129	129		5.5%
Iraq	2,567	1,813	2,364	4,002	4,418	4,473	4,568	4,712		
Medium & Sour	2,567	1,813	2,364	2,759	2,980	2,970	3,033	3,076	100.0%	65.3%
Heavy & Sour				1,243	1,438	1,503	1,535	1,636		34.7%
Kuwait	2,046	2,713	2,565	2,823	2,884	2,707	2,745	2,682		
Light & Sweet							57	99		3.7%
Medium & Sour	1,889	2,558	2,425	2,787	2,884	2,707	2,688	2,583	92.3%	96.3%
Heavy & Sour	157	155	140	36					7.7%	
Oman	956	774	865	982	1,004	971	978	971		
Medium & Sour	956	774	865	982	1,004	971	978	971	100.0%	100.0%
Qatar	688	959	1,297	1,421	1,420	1,369	1,367	1,355		
Ultra Light		185	559	770	770	760	760	760		56.1%
Light & Sour	584	556	452	356	354	334	340	330	84.9%	24.4%
Medium & Sour	104	218	286	295	296	275	267	265	15.1%	19.6%
Saudi Arabia	8,278	9,643	8,444	10,196	10,416	9,958	10,326	9,803		
Light & Sweet	162	119	58	116	118	109	111	98	2.0%	1.0%
Light & Sour	1,269	1,110	1,139	1,336	1,397	1,459	1,518	1,557	15.3%	15.9%
Medium & Sour	6,690	8,259	7,107	8,708	8,901	8,391	8,697	8,147	80.8%	83.1%
Heavy & Sour	157	155	140	36					1.9%	
Syria	545	413	350	19	17	17	16	16		
Light & Medium Sour	394	228	172	9	4	3	8	8	72.2%	50.7%
Heavy & Sour	151	185	178	10	13	14	8	8	27.8%	49.3%
United Arab Emirates	2,238	2,458	2,311	2,946	3,050	2,933	2,998	3,177		
Light & Medium Sour	974	1,206	1,337	1,641	1,532	1,578	1,539	1,661	43.5%	52.3%
Light & Sour	492	539	423	652	700	600	636	669	22.0%	21.0%
Medium & Medium Sour	11	6							0.5%	
Medium & Sour	761	706	551	653	818	755	823	848	34.0%	26.7%
Yemen	437	400	284	28	16	44	70	70		
Light & Sweet	146	109	74	12	0	2	7	40	33.5%	57.1%
Medium & Medium Sour	291	291	210	16	16	42	63	30	66.5%	42.9%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

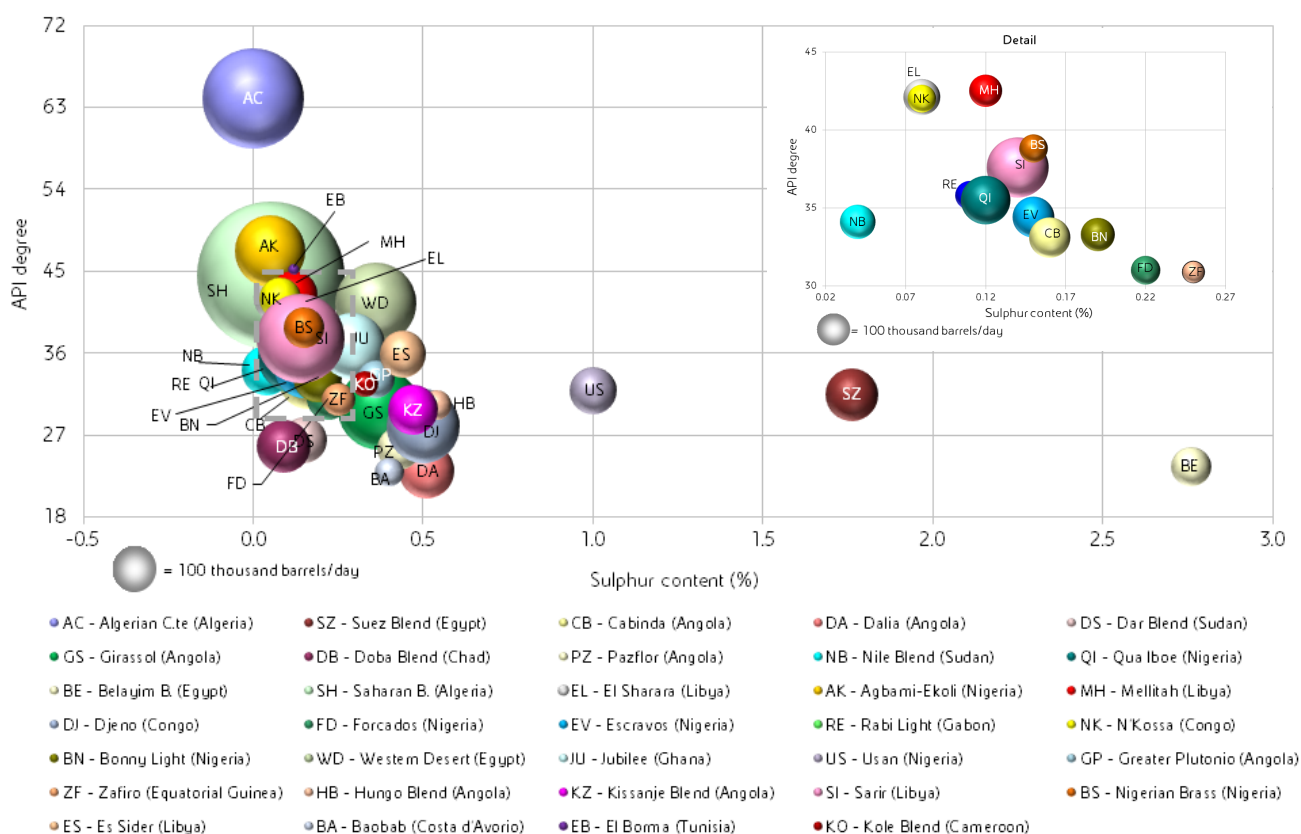
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Africa (A)	7,538	9,573	9,896	8,099	7,556	7,917	8,019	8,156		
Ultra Light	630	603	589	581	584	569	556	552	8.4%	6.8%
Light & Sweet	4,282	4,970	4,920	3,622	3,187	3,882	4,281	4,393	56.8%	53.9%
Light & Medium Sour			77	53	47	46	51	51		0.6%
Light & Sour	23	20	33	23	22	19	18	24	0.3%	0.3%
Medium & Sweet	1,769	2,665	2,643	2,171	1,985	2,057	1,733	1,811	23.5%	22.2%
Medium & Medium Sour	23	293	177	305	295	256	451	417	0.3%	5.1%
Medium & Sour	702	523	517	524	800	508	386	383	9.3%	4.7%
Heavy & Sweet	33	269	478	485	408	275	281	280	0.4%	3.4%
Heavy & Medium Sour	61	56	320	222	205	213	175	143	0.8%	1.7%
Heavy & Sour		159	131	92		72	69	69		0.8%
Unassigned production (B)	16	15	12	23	24	20	17	34	0.2%	0.4%
% Unassigned production (B/A)	0.2	0.2	0.1	0.3	0.3	0.3	0.2	0.4		

Quality and Production Volume of Main Crudes 2019^(**)

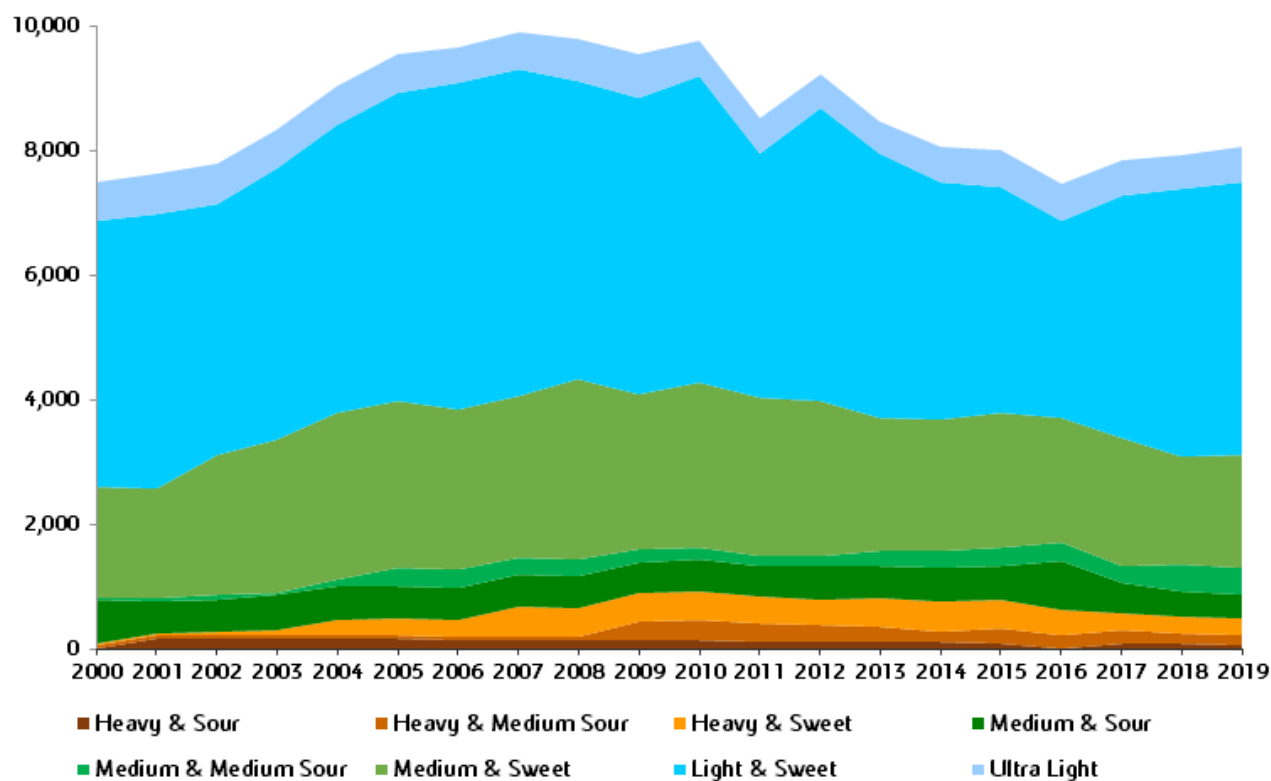
(thousand barrels/day)

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

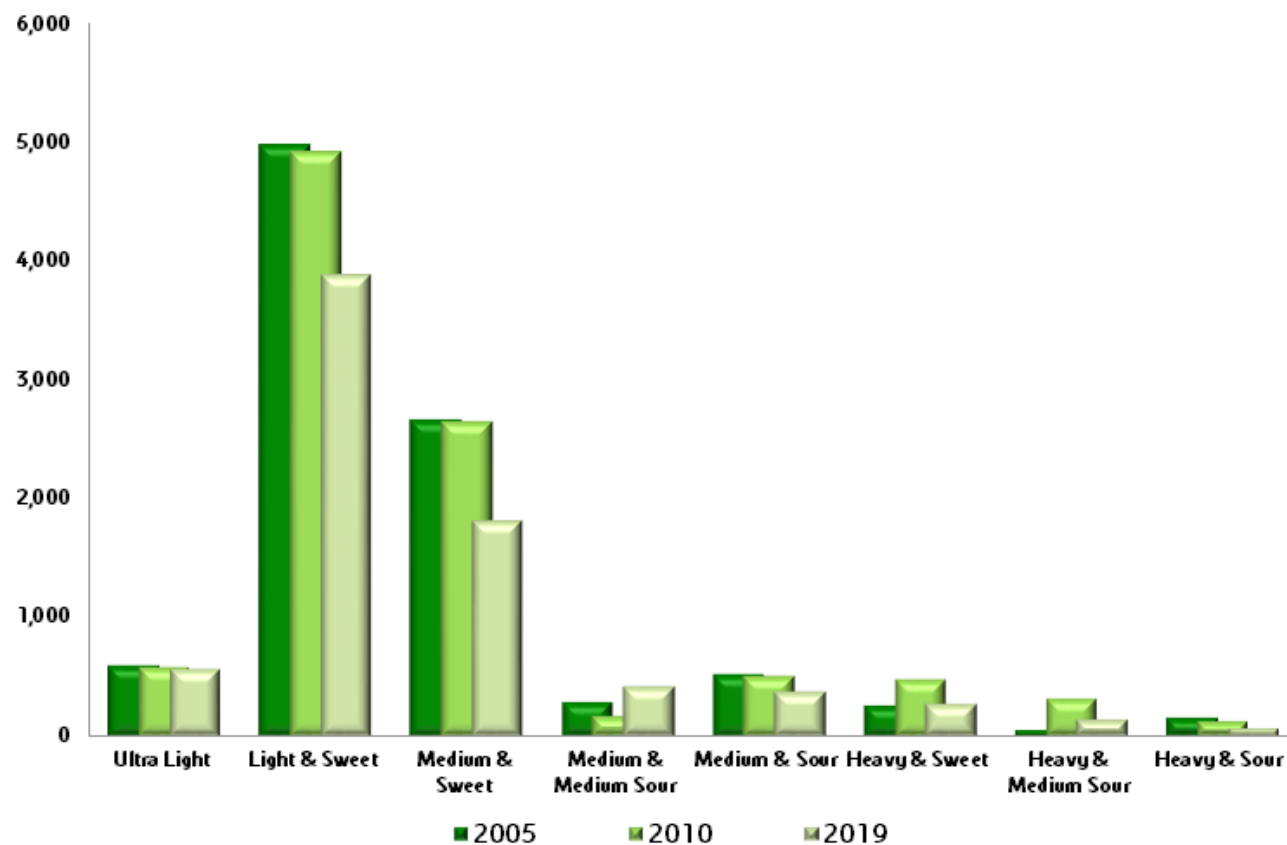
(**) Data source: Eni.

Crude Production by Quality^(*)

(thousand barrels/day)

Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total 2000 2019	
Algeria	1,436	1,931	1,720	1,590	1,604	1,530	1,512	1,490		
Ultra Light	630	603	515	481	494	483	470	466	43.9%	31.3%
Light & Sweet	806	1,328	1,205	1,109	1,110	1,047	1,042	1,024	56.1%	68.7%
Angola	745	1,228	1,750	1,760	1,708	1,642	1,491	1,389		
Light & Sweet	355	280	356	248	245	203	169	143	47.7%	10.3%
Medium & Sweet	329	657	909	821	876	909	888	894	44.1%	64.4%
Medium & Medium Sour		235	165	301	252	214	170	126		9.1%
Heavy & Sweet				168	129	104	89	83		6.0%
Heavy & Medium Sour	61	56	320	222	205	213	175	143	8.2%	10.3%
Cameroon	114	89	64	93	92	75	67	64		
Medium & Sweet	81	57	36	62	54	42	33	30	70.8%	47.5%
Heavy & Sweet	33	32	28	31	38	33	34	34	29.2%	52.5%
Chad		170	120	139	129	112	128	128		
Heavy & Sweet		170	120	139	129	112	128	128		100.0%
Congo	256	239	306	227	210	259	324	332		
Light & Sweet	131	121	89	51	62	74	87	84	51.2%	25.3%
Medium & Sweet	125	118	217	176	148	185			48.8%	
Medium & Medium Sour							237	248		74.7%
Cote d'Ivoire	7	40	39	26	32	40	41	48		
Medium & Sweet	7	25	16	14	14	13	11	13	100.0%	26.1%
Heavy & Sweet		15	23	12	18	27	30	35		73.9%
Dem. Rep. Congo	23	25	25	22	21	20	19	18		
Medium & Sweet	23	25	25	22	21	20	19	18	100.0%	100.0%
Egypt	689	618	664	660	629	605	617	600		
Light & Sweet	120	153	203	233		200	318	304	17.4%	50.7%
Medium & Sour	569	306	330	335	629	333	230	227	82.6%	37.9%
Heavy & Sour		159	131	92		72	69	69		11.4%
Equatoria Guinea	145	380	311	276	232	211	208	196		
Ultra Light			74	100	90	86	86	86		43.9%
Light & Sweet	12	75							8.3%	
Medium & Sweet	128	263	237	176	102	86	80	69	88.3%	35.0%
Medium & Medium Sour	5	42			40	39	42	41	3.4%	21.1%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Gabon	276	270	249	230	227	200	190	212		
Light & Sweet		78	85					80	37.8%	
Medium & Sweet	201	65	50	116	123	111	106	38	73.0%	17.8%
Medium & Sour	75	127	114	114	104	89	84	94	27.0%	44.4%
Ghana	7	6	7	106	92	167	190	199		
Light & Sweet	7	6	7	106	92	167	190	199	100.0%	100.0%
Libya	1,411	1,640	1,550	402	391	827	971	1,087		
Light & Sweet	1,353	1,550	1,400	279	282	700	852	978	95.9%	90.0%
Light & Medium Sour			77	53	47	46	51	51		4.7%
Medium & Sour	58	90	73	70	63	81	68	58	4.1%	5.3%
Nigeria	2,160	2,546	2,535	2,243	1,921	1,980	2,007	2,112		
Light & Sweet	1,462	1,344	1,541	1,578	1,380	1,478	1,610	1,575	67.7%	74.6%
Medium & Sweet	698	1,150	944	665	541	502	397	537	32.3%	25.4%
Heavy & Sweet		52	50							
Sudan	177	305	465	253	198	189	199	212		
Medium & Sweet	177	305	208	118	104	189	199	212	100.0%	100.0%
Heavy & Sweet			257	135	94					
Tunisia	76	71	79	49	46	40	38	35		
Light & Sweet	36	35	34	18	16	14	13	6	47.0%	15.9%
Light & Sour	23	20	33	23	22	19	18	24	29.7%	69.3%
Medium & Medium Sour	18	16	12	4	3	2	2	2	23.3%	4.7%
Medium & Sour				5	5	5	4	4		10.1%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

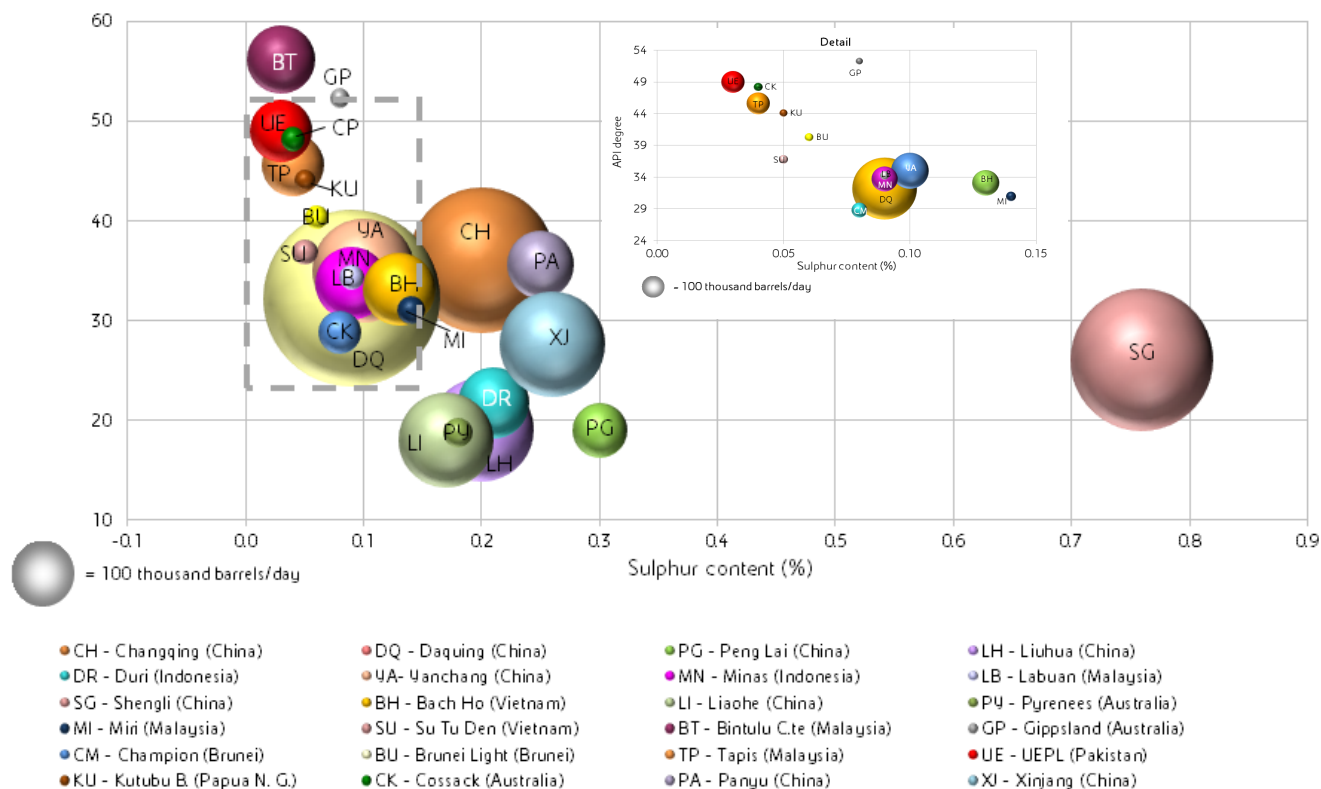
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Asia - Pacific (A)	7,443	7,546	7,843	7,749	7,400	7,136	6,953	6,947		
Ultra Light	414	508	568	544	499	519	582	649	5.6%	9.3%
Light & Sweet	2,608	2,611	2,444	2,229	2,688	2,632	2,621	2,534	35.0%	36.5%
Light & Medium Sour	31	33				24	23	31	0.4%	0.4%
Light & Sour			35	32						
Medium & Sweet	3,010	2,970	3,320	3,564	2,784	2,606	2,415	2,364	40.4%	34.0%
Medium & Medium Sour	517	536	554	547	480	472	471	452	6.9%	6.5%
Medium & Sour	40	44	37	45	71	46	45	46	0.5%	0.7%
Heavy & Sweet	797	784	830	732	821	784	748	819	10.7%	11.8%
Heavy & Medium Sour										
Heavy & Sour										
Unassigned production (B)	25	60	55	58	57	54	50	51	0.3%	0.7%
% Unassigned production (B/A)	0.3	0.8	0.7	0.7	0.8	0.8	0.7	0.7		

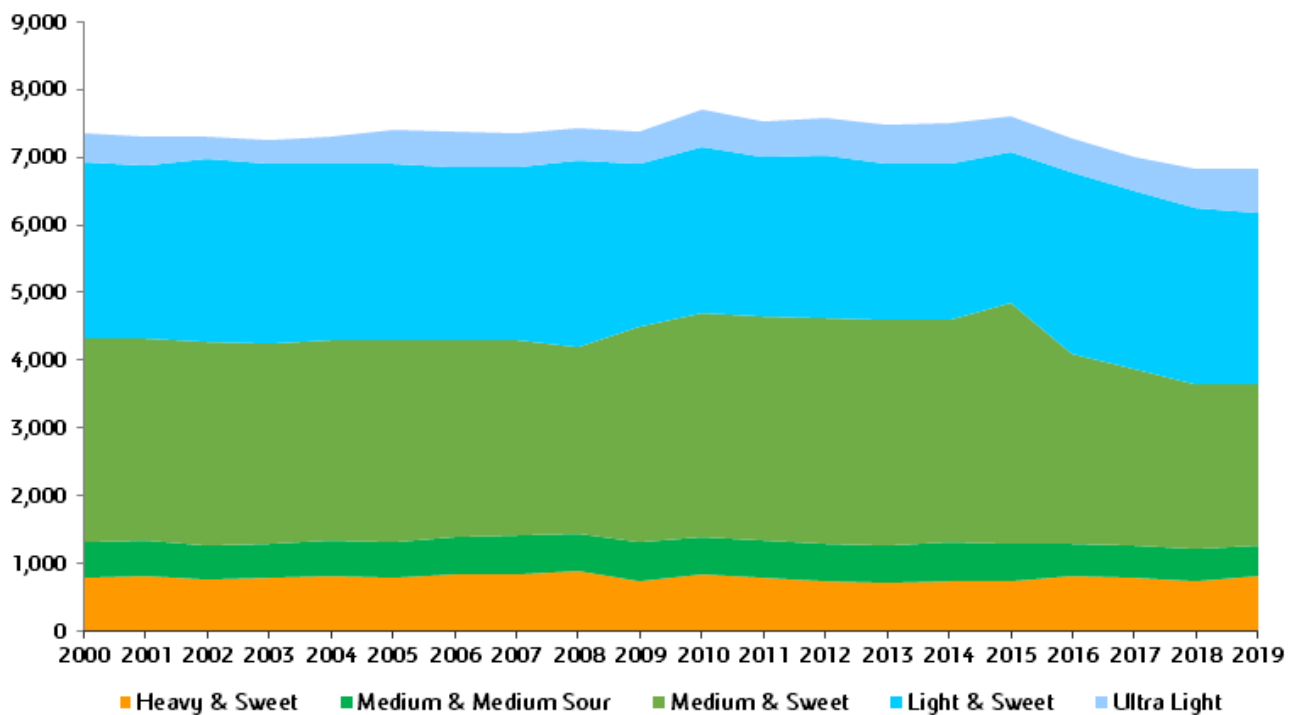
Quality and Production Volume of Main Crudes 2019^(**)

(thousand barrels/day)

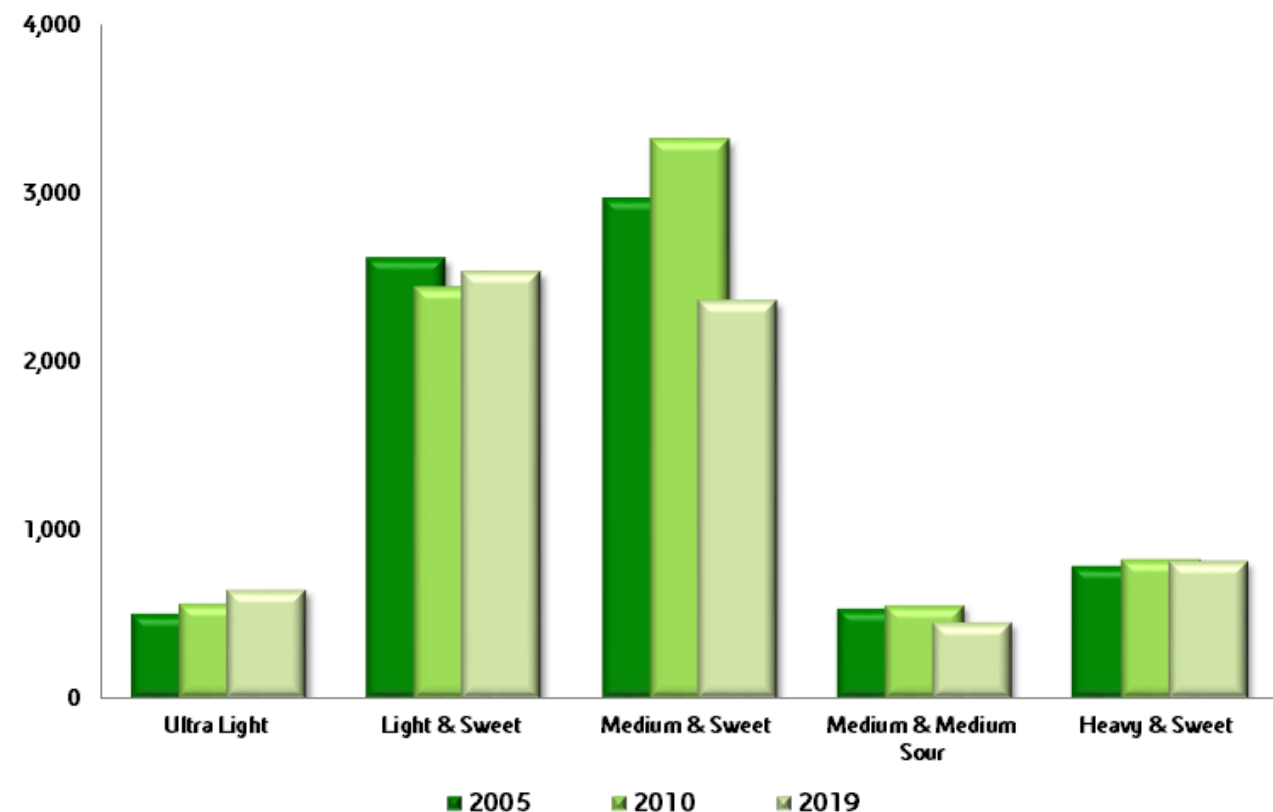
(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

(**) 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 (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total 2000 2019	
Australia	721	456	479	322	290	263	284	361		
Ultra Light	114	39	91	140	146	136	185	247	15.7%	68.5%
Light & Sweet	592	417	251	93	72	69	66	70	82.1%	19.4%
Heavy & Sweet	15		137	89	73	59	34	44	2.1%	12.1%
Heavy & Medium Sour										
Brunei	195	206	169	127	121	113	111	121		
Ultra Light	16	18	16	11	12	13	12	11	8.2%	9.1%
Light & Sweet	118	149	118	15	10	49	10	71	60.6%	59.0%
Medium & Sweet	6	3	35	101	99	51	89	39	3.1%	31.9%
Heavy & Sweet	55	36							28.1%	
China	3,214	3,594	4,020	4,222	3,910	3,788	3,716	3,768		
Light & Sweet	170	244	318	273	711	705	812	818	5.3%	21.7%
Light & Medium Sour	31	33				24	23	31	1.0%	0.8%
Light & Sour			35	32						
Medium & Sweet	2,112	2,293	2,592	2,836	2,025	1,916	1,734	1,758	65.7%	46.7%
Medium & Medium Sour	517	536	554	547	480	472	471	452	16.1%	12.0%
Medium & Sour	40	44	37	45	71	46	45	46	1.2%	1.2%
Heavy & Sweet	345	444	484	491	623	625	631	663	10.7%	17.6%
East Timor		100	88	60	49	40	33	28		
Ultra light		100	88	60	49	40	33	28		100.0%
India	659	663	755	764	737	735	710	668		
Light & Sweet	553	569	657	676	651	645	620	583	83.9%	87.3%
Medium & Sweet	40	27	95	87	85	89	89	84	6.1%	12.6%
Heavy & Sweet	66	67	3	1	1	1	1	1	10.1%	0.2%
Indonesia	1,415	1,061	945	776	831	802	770	736		
Ultra Light	157	162	166	126	92	88	106	116	11.1%	15.8%
Light & Sweet	463	341	336	264	293	275	257	176	32.7%	24.0%
Medium & Sweet	479	320	238	235	322	340	325	332	33.9%	45.1%
Heavy & Sweet	316	237	206	150	124	99	82	111	22.3%	15.1%
Malaysia	619	726	638	654	667	660	653	604		
Ultra Light	45	85	98	70	65	106	112	103	7.3%	17.0%
Light & Sweet	467	550	381	503	552	512	505	474	75.5%	78.4%
Medium & Sweet	107	91	159	81	50	42	37	28	17.3%	4.6%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
New Zealand	36	19	55	41	35	31	24	24		
Light & Sweet	36	19	39	29	26	23	18	18	100.0%	75.4%
Medium & Sweet			16	12	9	8	6	6		24.6%
Pakistan	58	66	66	87	88	89	88	86		
Light & Sweet	58	66	66	87	88	89	88	86	100.0%	100.0%
Papua New Guinea	64	54	32	58	56	50	45	51		
Ultra Light	31	35	21	41	41	38	36	42		82.2%
Light & Sweet	33	19	11	17	15	12	9	9	51.6%	17.8%
Thailand	120	183	242	248	258	240	228	228		
Ultra Light	52	70	89	96	95	99	99	102	43.5%	44.9%
Light & Sweet	68	114	153	152	164	141	129	126	56.5%	55.1%
Vietnam	317	358	299	332	301	271	241	221		
Light & Sweet	51	123	114	120	107	112	106	103	16.1%	46.7%
Medium & Sweet	266	235	185	212	194	159	135	118	83.9%	53.3%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

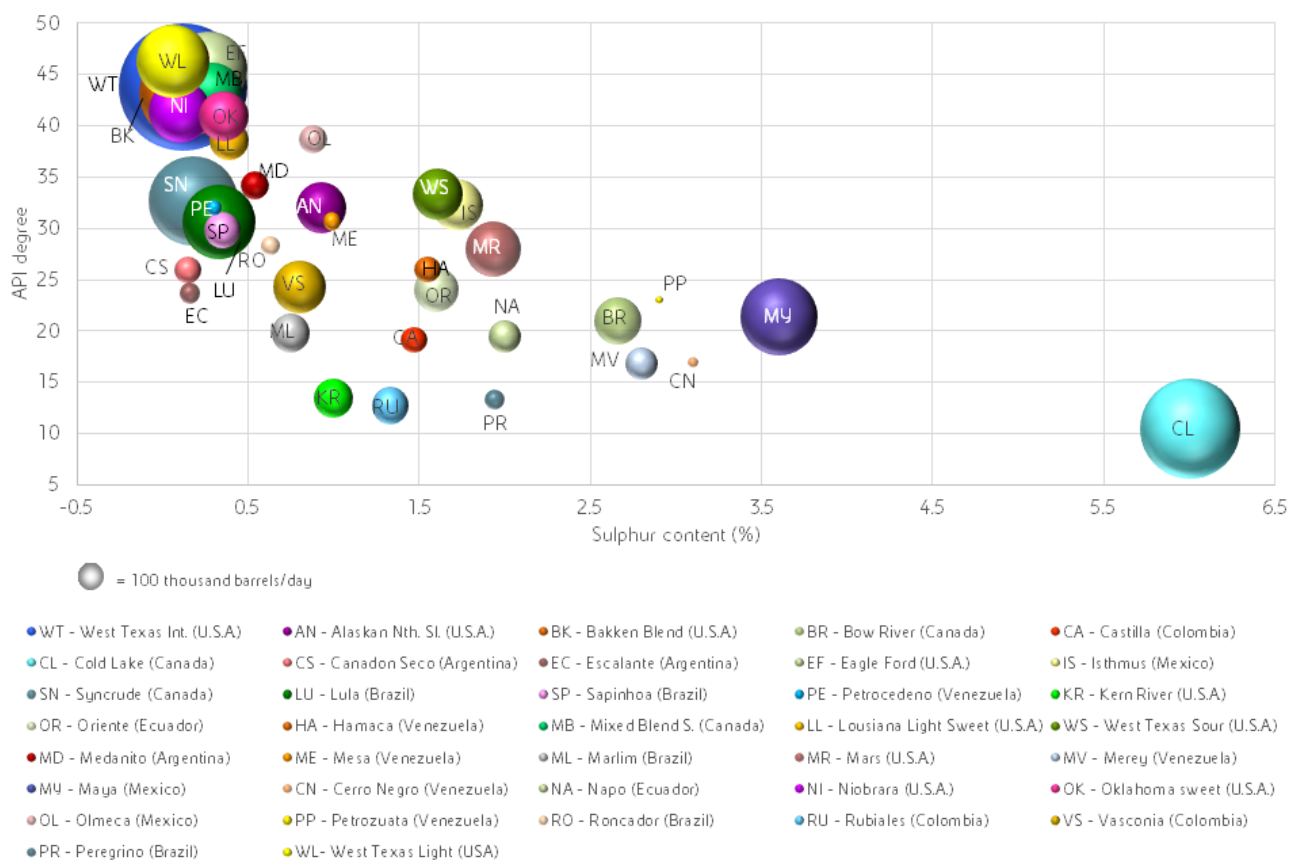
Crude Production by Quality^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Americas (A)	17,198	17,522	17,658	22,795	21,777	22,157	23,418	24,314		
Ultra Light	64	183	145	633	647	584	592	640	0.4%	2.5%
Light & Sweet	3,036	2,569	2,918	6,577	5,883	6,385	7,943	9,111	17.7%	33.9%
Light & Medium Sour	552	193	370	317	303	246	221	165	3.2%	0.9%
Light & Sour										
Medium & Sweet	885	1,491	1,595	2,350	2,510	2,867	3,062	3,443	5.1%	13.1%
Medium & Medium Sour	1,635	1,509	1,611	1,123	1,239	1,230	1,271	1,271	9.5%	5.4%
Medium & Sour	3,994	3,623	3,563	3,388	3,173	3,127	2,782	2,517	23.2%	11.9%
Heavy & Sweet	320	266	302	269	241	236	230	245	1.9%	1.0%
Heavy & Medium Sour	1,482	1,715	1,917	2,102	1,883	1,750	1,686	1,513	8.6%	7.2%
Heavy & Sour	4,892	5,614	4,930	5,766	5,664	5,501	5,412	5,193	28.4%	23.1%
Unassigned production (B)	337	359	307	270	234	230	220	216	2.0%	0.9%
% Unassigned production (B/A)	2.0	2.0	1.7	1.2	1.1	1.0	0.9	0.9		

Quality and Production Volume of Main Crudes 2019^(**)

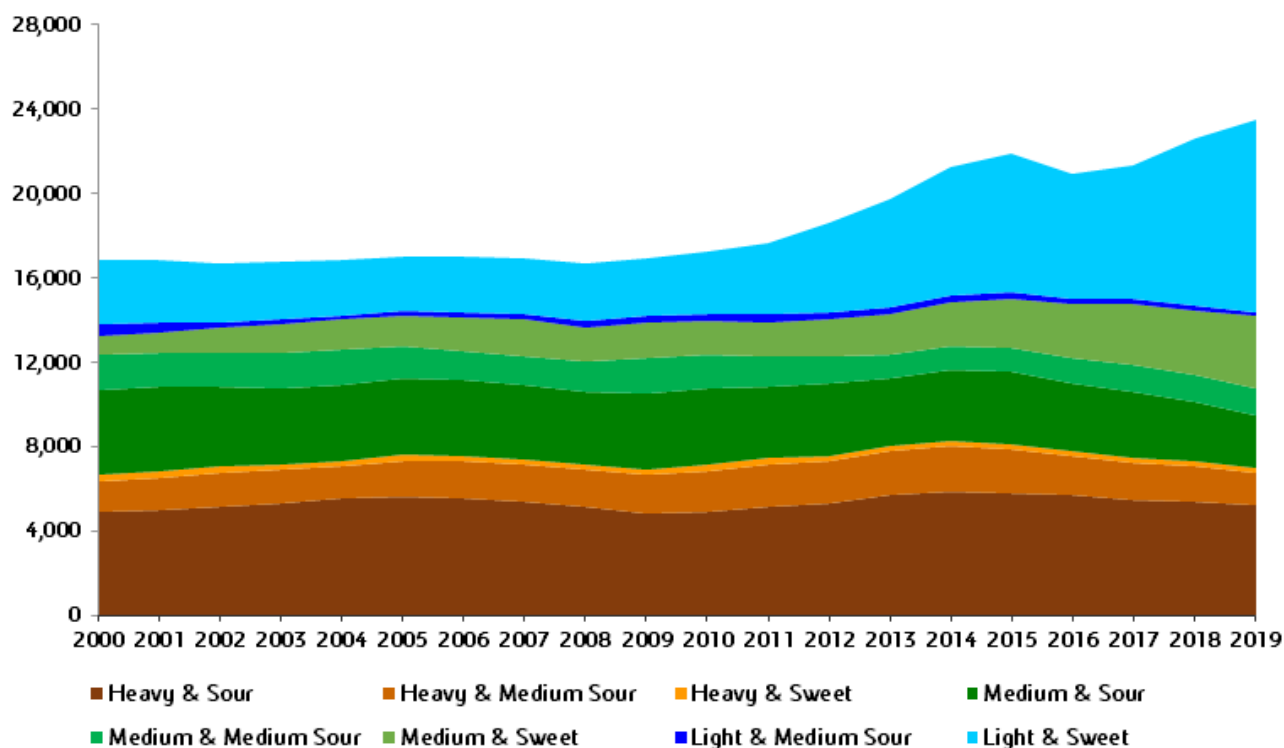
(thousand barrels/day)

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

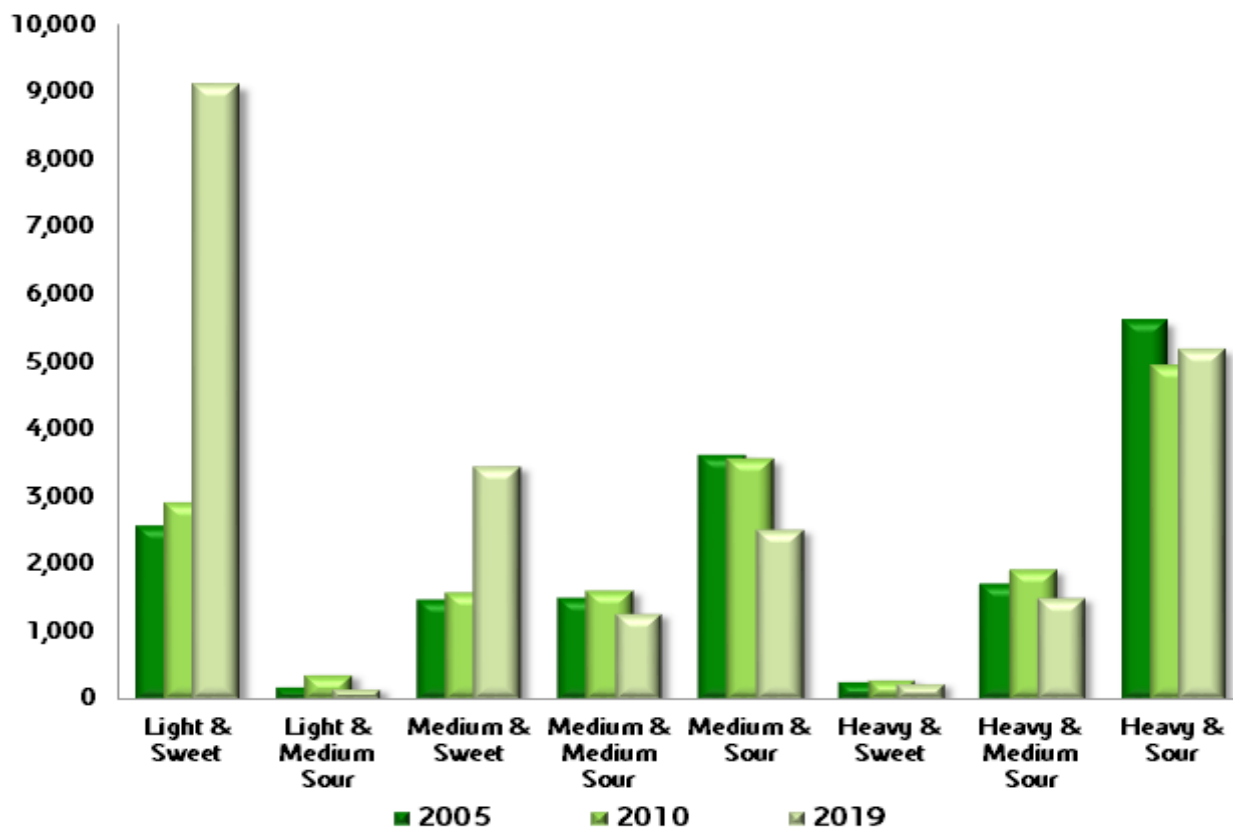
(**) Data source: Eni.

Crude Production by Quality^(*)

(thousand barrels/day)

Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total 2000 2019	
Argentina	801	705	589	532	511	480	489	509		
Ultra light		41	22	21	22	22	23	26		5.1%
Light & Sweet	120	100	85	77	73	69	70	72	15.0%	14.2%
Medium & Sweet				21	27	35	55	89		17.5%
Medium & Medium Sour	360	299	255	209	193	171	155	128	45.0%	25.2%
Heavy & Sweet	320	266	227	204	196	183	187	193	40.0%	38.0%
Brazil	1,231	1,639	2,063	2,451	2,525	2,638	2,599	2,788		
Light & Sweet				6	6	4	4	3		0.1%
Light & Medium Sour	48	49	50	40	37	35	32	33	3.9%	1.2%
Medium & Sweet			0	602	819	1,050	1,177	1,502		53.9%
Medium & Medium Sour	273	319	484	130	158	139	121	219	22.2%	7.8%
Heavy & Sweet			75	64	46	53	43	52		1.9%
Heavy & Medium Sour	910	1,271	1,433	1,528	1,389	1,283	1,148	906	73.9%	32.5%
Heavy & Sour			20	81	71	75	74	73		2.6%
Canada	2,016	2,456	2,851	3,829	3,823	4,151	4,503	4,578		
Light & Sweet	832	729	678	669	574	586	640	635	41.3%	13.9%
Medium & Sweet	336	756	1,048	1,198	1,193	1,333	1,399	1,461	16.7%	31.9%
Medium & Medium Sour				127	169	176	144	133		2.9%
Heavy & Medium Sour						2	62	112		2.4%
Heavy & Sour	849	971	1,125	1,836	1,887	2,054	2,259	2,238	42.1%	48.9%
<i>Memo: Syncrude production is included in Medium & Sweet</i>	<i>336</i>	<i>651</i>	<i>926</i>	<i>1,152</i>	<i>1,152</i>	<i>1,290</i>	<i>1,374</i>	<i>1,443</i>	<i>16.7%</i>	<i>31.1%</i>
<i>Memo: bitumen production is included in Heavy & Sour</i>	<i>288</i>	<i>445</i>	<i>697</i>	<i>1,406</i>	<i>1,485</i>	<i>1,648</i>	<i>1,856</i>	<i>1,837</i>	<i>14.3%</i>	<i>39.7%</i>
Colombia	684	526	786	1,006	898	854	865	886		
Light & Sweet			15	5	5	4	3	2		0.3%
Medium & Sweet	105	74	61	42					15.4%	
Medium & Medium Sour					42	38	36	35		4.0%
Heavy & Medium Sour	573	444	484	574	493	465	476	495	83.7%	55.8%
Heavy & Sour	6	8	226	385	357	347	350	354	0.9%	39.9%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Countries^(*)

(thousand barrels/day)

	2000	2005	2010	2015	2016	2017	2018	2019	Share of total	
									2000	2019
Ecuador	401	532	466	541	547	531	523	529		
Heavy & Sour	401	532	466	541	547	531	523	529	100.0%	100.0%
Mexico	3,012	3,333	2,577	2,267	2,161	1,955	1,831	1,705		
Light & Medium Sour	504	144	320	277	267	211	189	133	16.7%	7.8%
Medium & Sour	733	802	834	838	788	691	546	475	24.3%	27.9%
Heavy & Sour	1,775	2,387	1,422	1,152	1,107	1,053	1,096	1,097	58.9%	64.3%
United States	5,822	5,184	5,484	9,439	8,839	9,352	10,990	12,229		
Ultra light	21	11	28	519	540	515	560	614	0.4%	5.0%
Light & Sweet	2,084	1,741	2,139	5,821	5,224	5,721	7,226	8,398	35.8%	68.7%
Medium & Sweet	444	505	372	378	372	359	370	356	7.6%	2.9%
Medium & Medium Sour	1,001	891	871	657	677	706	726	700	17.2%	5.7%
Medium & Sour	1,472	1,392	1,500	1,513	1,504	1,545	1,644	1,700	25.3%	13.9%
Heavy & Sour	800	644	574	551	522	506	463	461	13.7%	3.8%
Venezuela	2,894	2,788	2,535	2,460	2,239	1,966	1,398	874		
Ultra light	43	131	96	94	86	48	8		1.5%	
Medium & Sweet		156	114	109	98	91	61	36		4.1%
Medium & Medium Sour							89	56		6.4%
Medium & Sour	1,789	1,430	1,228	1,037	882	891	592	341	61.8%	39.0%
Heavy & Sour	1,062	1,071	1,097	1,220	1,173	936	647	441	36.7%	50.5%

(*) Data source: Eni's elaborations on IEA (2020) *Monthly Oil Data Services* data. All rights reserved.

Oil – Refining Industry

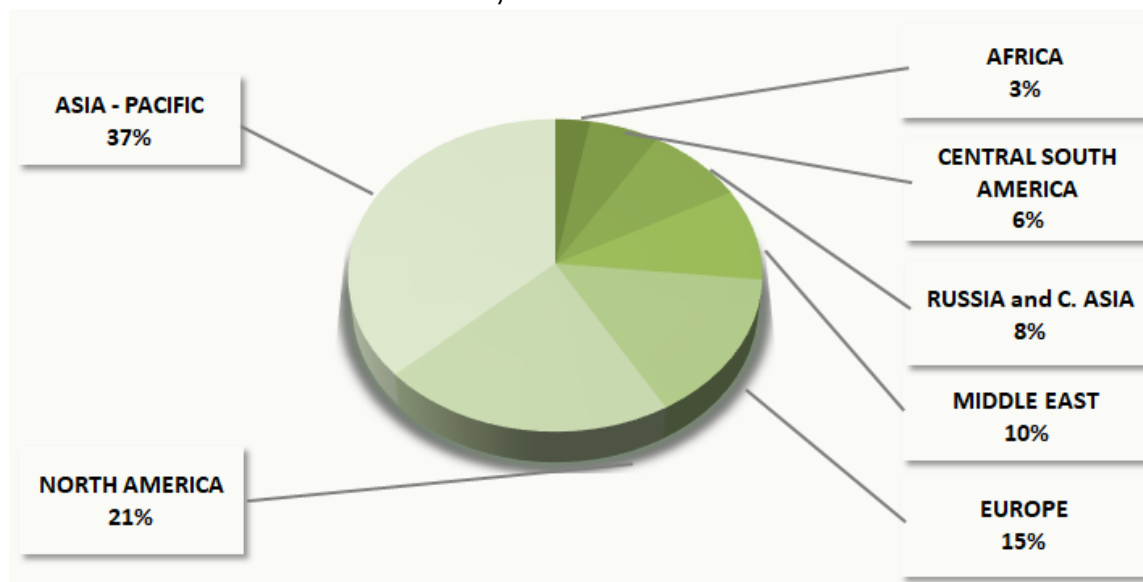
Refining Capacity

Areas and Aggregates^(*)

	2000						2010					
	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio FCC eqv. (%)	NCI	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio FCC eqv. (%)	NCI
Europe ^(**)	148	852	17,058	268	31%	8.3	128	840	16,812	309	37%	8.9
Russia and Central Asia	58	404	8,123	55	14%	5.8	66	378	7,612	66	18%	6.9
Middle East	46	325	6,527	52	16%	5.4	58	393	8,003	79	20%	5.8
Africa	47	142	2,837	17	12%	4.9	46	159	3,189	28	17%	5.7
Asia - Pacific	235	1,113	22,297	387	35%	6.9	298	1,486	29,802	788	53%	8.3
Americas	256	1,313	26,267	790	60%	9.9	242	1,353	27,087	881	65%	10.6
- North America	182	997	19,942	662	66%	10.9	167	1,034	20,688	729	70%	11.6
- Central South America	74	316	6,325	128	41%	7.1	75	319	6,399	152	48%	7.4
World	790	4,148	83,109	1,569	38%	7.9	838	4,610	92,505	2,152	47%	8.7

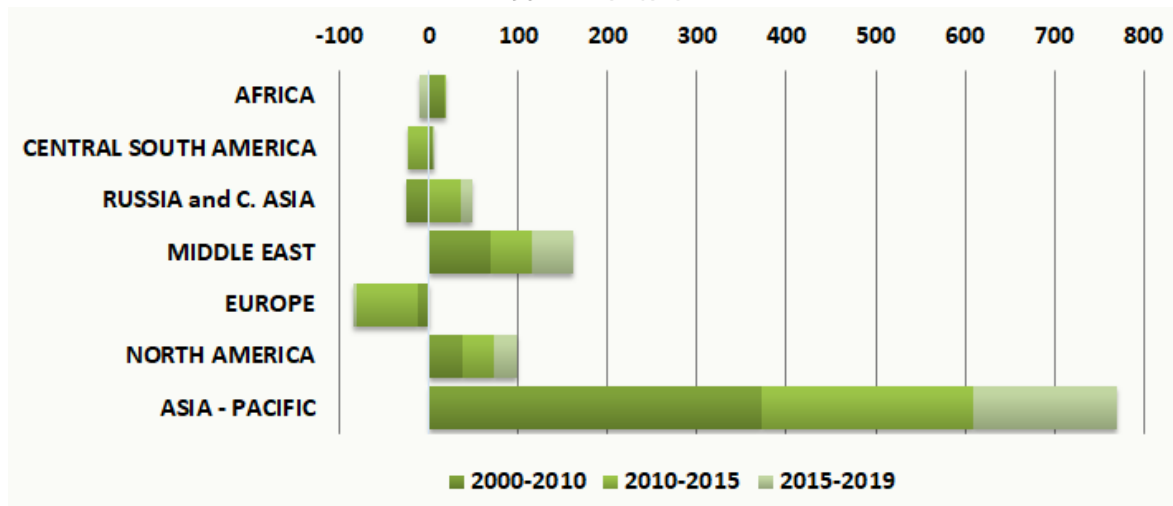
World Primary Capacity (2019)

5,105 million tons



World Primary Capacity Growth (2000-2019)

957 million tons

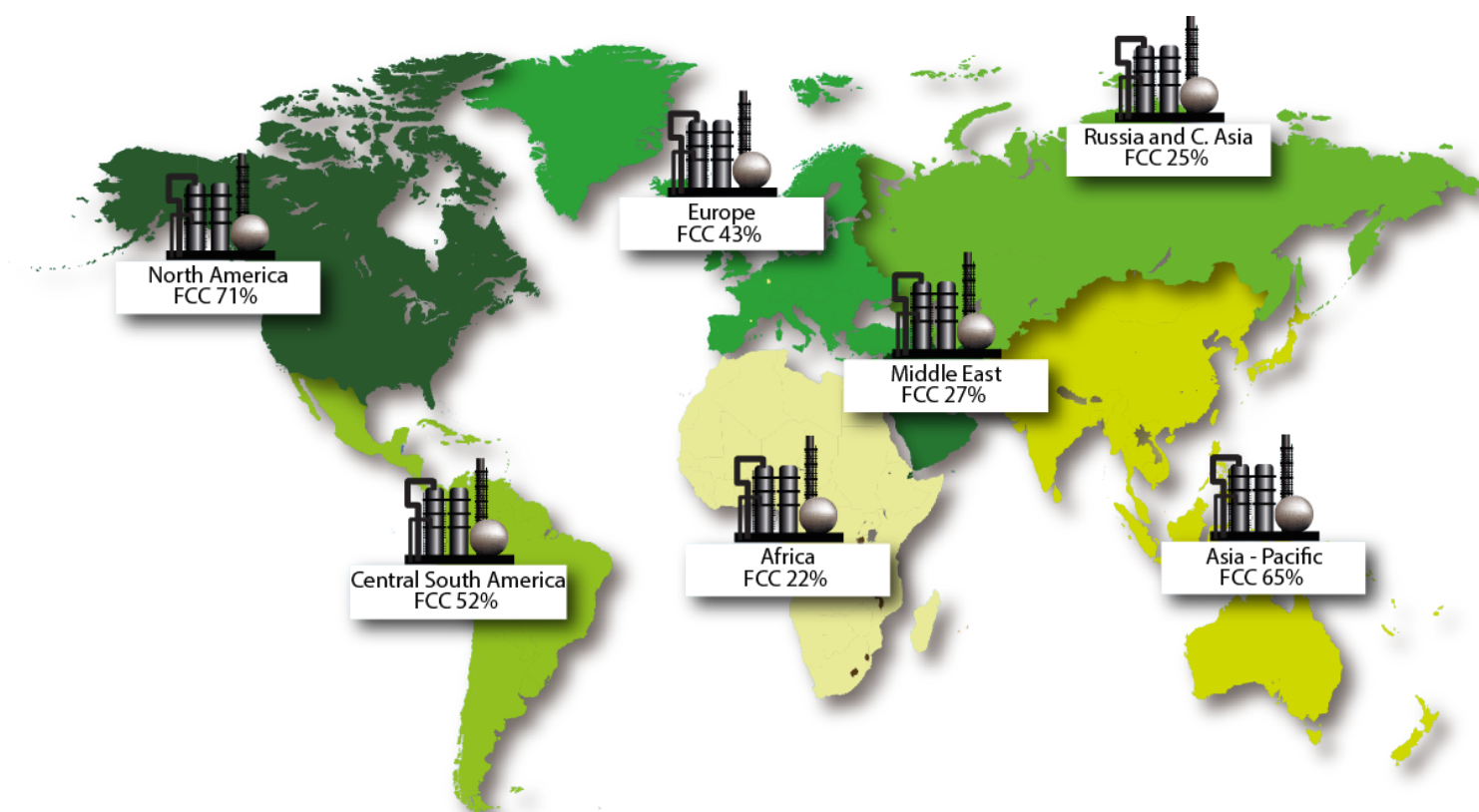


(*) Data source: Eni's calculations on Icis Consulting data.

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

2015						2019						
Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio		Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbbbl/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio		
				FCC eqv. (%)	NCI					FCC eqv. (%)	NCI	
113	772	15,443	313	40%	9.2	109	767	15,347	332	43%	9.3	Europe (**)
70	414	8,350	79	19%	7.0	72	426	8,589	106	25%	7.7	Russia and Central Asia
58	441	8,950	118	27%	6.5	62	486	9,913	132	27%	7.0	Middle East
48	159	3,195	32	20%	6.1	51	149	2,991	33	22%	6.2	Africa
328	1,721	34,539	1,041	60%	9.0	330	1,882	37,823	1,216	65%	9.8	Asia - Pacific
239	1,366	27,354	881	65%	10.6	238	1,395	27,956	940	67%	10.8	Americas
164	1,070	21,421	777	73%	11.8	165	1,096	21,969	781	71%	11.6	North America -
75	296	5,933	145	49%	7.7	73	299	5,987	157	52%	7.9	Central South America -
856	4,873	97,831	2,463	51%	9.1	862	5,105	102,619	2,760	54%	9.5	World

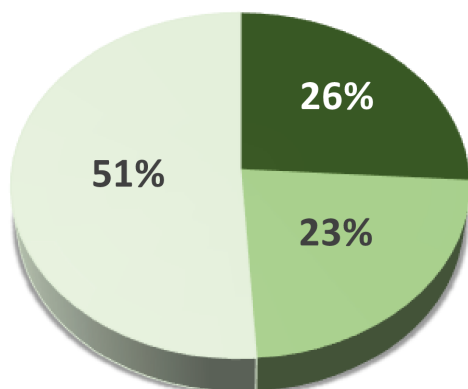
2019 Complexity ratio (FCC eqv. %)



Primary Capacity bu Cluster of Companies^(*)

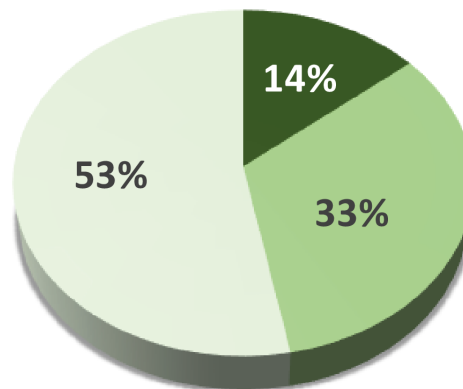
2000

World: 4,148 million tons



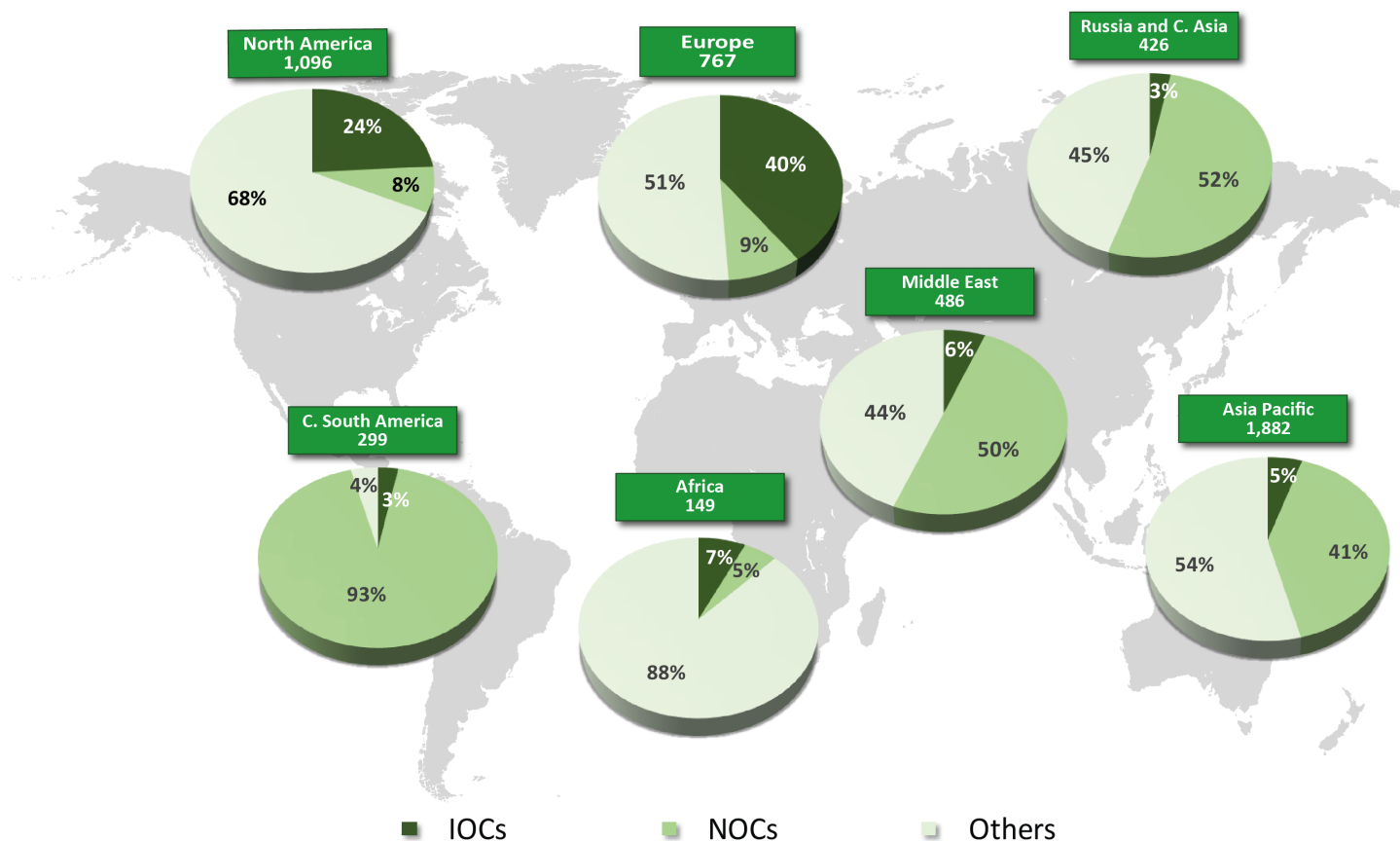
2019

World: 5,105 million tons



2019

(million tons)



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

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



Eni SpA

Headquarters

Piazzale Enrico Mattei, 1 - Rome - Italy

Capital Stock: € 4,005,358,876.00 fully paid up

Rome Companies

Register Tax Identification Number 00484960588

Branches

Via Emilia, 1 - San Donato Milanese (MI) - Italy

Piazza Ezio Vanoni, 1 - San Donato Milanese (MI) - Italy

Web site

eni.com

Produced by

Eni SpA

Page layout and supervision

Scenarios, Positioning

and Medium - Long Term Plan Department

Cover Photo

Head Office Rome - P.le Enrico Mattei, 1

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volume 1
World Oil Review 2020



Eni SpA
Piazzale Enrico Mattei, 1
00144 Roma
Ph. +39 0659821 - Fax +39 06 59822141

eni.com