



World
Energy
Review

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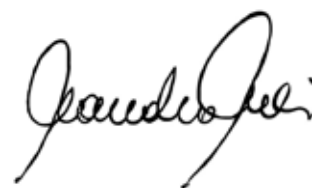
In 2021 the easing of Covid-19 restrictions and the ensuing economic recovery led to a rebound in energy demand, barely met by the available resources that were constrained by a legacy of limited investment into the Oil & Gas sector. The unstable balance resulted in higher commodity prices, highlighting the vulnerabilities in the energy system. This year the war in Ukraine has further emphasised the importance of energy security.

The main challenge that the energy industry is facing is to **improve universal access to affordable energy while, at the same time, accelerating the transition process towards a more sustainable energy mix.**

By acknowledging the ongoing process of change, the **World Energy Review**, now in its **21st edition**, this year comes out in an **interactive and modular version**, and also **introduces the topic of critical minerals**. The transition from fossil fuels to low-carbon energy sources calls for the massive deployment of a wide range of clean energy technologies, many of which in turn rely on these critical minerals concentrated in a few countries. Ensuring energy transition as well as energy security in the future must take into consideration this important aspect.

Looking at the evolution of the world of oil, natural gas, modern renewable sources and critical minerals, the following highlights emerge:

- **Oil prices were up** by 70% in 2021 as **demand recovered** (+6.1% YoY) but remained below pre-pandemic levels. OPEC+ kept a "close eye" on production and market balance, delivering a gradual easing of cuts in the second half of the year while by the year-end bringing down global inventories to below the previous five-year average. Production capacity growth struggled to keep pace with the recovery in demand.
- **World oil production increased** by 1.4% YoY in 2021. There was no significant change in terms of crude quality. It was confirmed that the process of the lightening barrel halted, most notably due to broadly unchanged US production growth.
- **Gas prices were up in all markets** (~+400% in Europe, + 300% in Asia and + 90% in US), with a marked uptick in the second half of the year. The post-Covid rebound in energy consumption and the challenge of adjusting supply up in a timely fashion (also due to the unplanned stoppages of some liquefaction plants) were the main drivers underlying this upward trend.
- In 2021 **global gas demand returned to growth** (+3.9%) after the decline in 2020, notably in Russia (+11.8%) and Europe (+6.7%). Among the top-10 gas consuming countries, the U.S., albeit still at the first place, confirmed the negative trend of 2020 with a -1.6% fall, while China recorded an increase of 4.2%, retaining its position as the largest global importer.
- **Global gas production also reported a 3.5% increase**, after the slowdown in 2020, mainly accounted for by Russia (+9.8%) and Africa (+11.9%, especially Algeria and Egypt).
- In 2021 **LNG saw its share on total traded gas** at 39% (40% in 2020), **downwards** for the first time since 2015. However, in 2021 the LNG traded volumes grew to 488 Bcm, of which around 70% was imported into Asian countries. Over the year, the U.S. increased its LNG exports by 9%.
- **In 2021, solar and wind share on total power generation reached 10%**, increasing by 1 percentage point with respect to the previous year.
- In 2021 **solar power continued to dominate renewable capacity expansion** with 138 GW of new installations, half of which was installed in China (53 GW) and US (20 GW). Global installed solar capacity reached 855 GW (+19% YoY), almost entirely photovoltaic.
- In 2021 **wind also kept growing**: global capacity reached 823 GW (+12.6% YoY). Compared with 2020 (+111 GW), new installations decreased to 92 GW, roughly half of which were installed in China (+47 GW).
- **All critical minerals** included in this review (cobalt, copper, lithium, nickel and rare earths) **saw an increase of production** in 2021, reflecting an uptick in demand and prices, after the constraints of the health emergency in 2020.



Claudio Descalzi
Chief Executive Officer and General Manager

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Introduction



LIST OF COUNTRIES

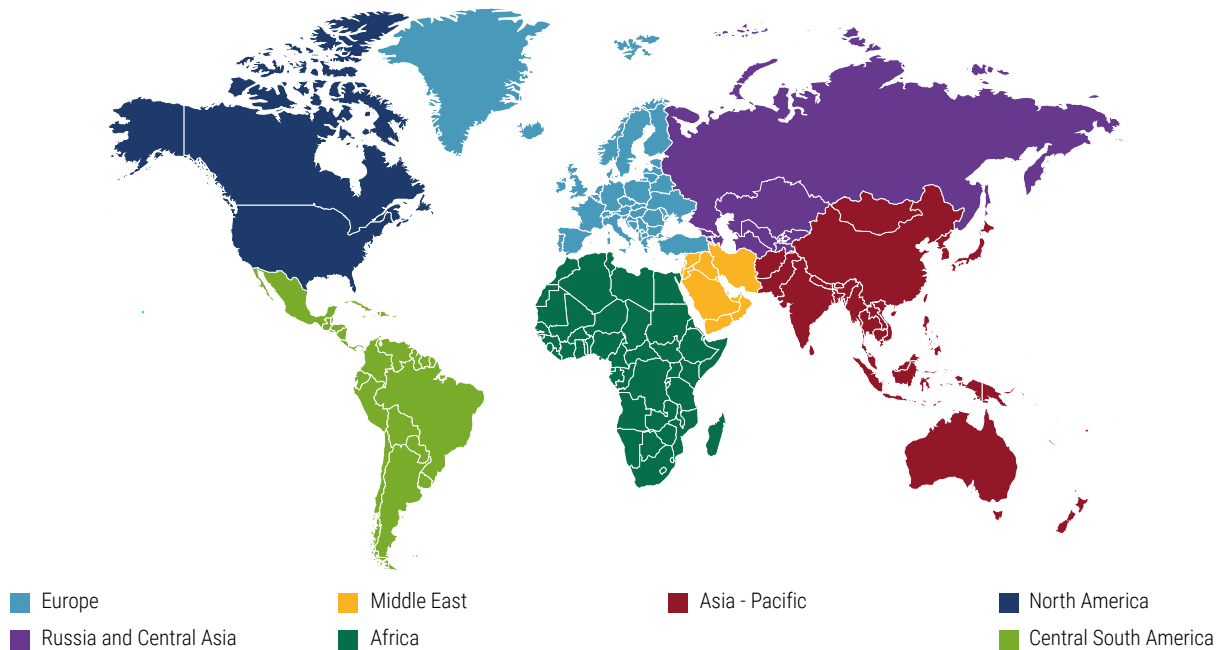


NOTES AND METHODS



WORLD ENERGY MIX

List of Countries



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, Malta, Moldova, Montenegro, Netherlands, North Macedonia, 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, Curacao, Dominican Republic, Ecuador, El Salvador, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela.
- **European Union 27:** 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 and Sweden.
- **OECD:** Australia, Austria, Belgium, Canada, Chile, Colombia, 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, 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 Market Scenarios and Strategic Options Unit.

Notes and Methods

Oil

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 Ecological Transition, JODI, 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.

Supply and Demand - Trade and Prices

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

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

Production Quality

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

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

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

For the definition of the qualitative parameters for single crudes, the data of “Eni-R&M 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	Hydrosulf-diesel	0.00	2.50
Alkylation-hydrofluoric	0.00	10.00	Hydrosulf-gasoline	0.00	2.50
Alkylation-sulfonic	0.00	10.00	Hydrosulf-kero	0.00	2.50
Asphalt	0.25	1.50	Hydrosulf-mid-distillates	0.00	2.50
Coking-delayed	1.35	6.00	Hydrosulf-naphta	0.00	2.50
Coking-f/d	1.35	6.00	Hydrosulf-residue	0.20	2.50
Coking-fluid	1.35	6.00	Hydrosulf-gvgo	0.05	2.50
Coking-fxc	1.35	6.00	Isomerization-c4	0.00	15.00
Condensate distillation	0.00	1.00	Isomerization-In	0.00	15.00
Crude	0.00	1.00	Lube	0.50	60.00
Deasphalting	0.00	1.50	Polymerization	0.00	10.00
Deasphalting-c3	0.00	1.50	Reforming-aromax	0.00	5.00
Deasphalting-c4	0.00	1.50	Reforming-btx	0.00	5.00
Deep 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

Natural Gas - Renewables

The sources of the data are: Cedigaz, DECC, EIA DOE, Enerdata, International Energy Agency (IEA), International Renewable Energy Agency (IRENA), IHS Global Insight, Italian Ministry for Ecological Transition, Norwegian Petroleum Directorate, Oil & Gas Journal, OPEC, Wood MacKenzie and other official sources.

Blank spaces in the tables indicate that the figure was not available, zero indicates a figure that is not significant (except for the two chapters "**Imports by Country of Origin**" and "**LNG Liquefaction and Regasification Capacity**" in the section "Natural Gas" and for the whole section "Renewables").

Total may differ from the sum of the individual figures as a result of rounding up/down.

Percentages have been calculated before rounding.

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

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

In the chapters "**Production**", "**Consumption**", "**Exports**" and "**Imports**" of natural gas, figures are assessed by using the same calorific value per cubic metre (40 MJ/cm, GCV), in order to make data among countries comparable.

In the chapter "**Production**" of natural gas, the figures concern traded production and do not include quantities of flared, dispersed or re-injected gas.

In the chapter "**Imports**" of natural gas, the figure reported as total imports for a single country may differ from the sum of "Imports by LNG and pipeline" for the same country, because of the different sources and different calorific attached to the cubic metre. The imports of liquefied natural gas cover only the dry marketable equivalent after regasification.

In all the chapters, the list of the "The world top 10 or 5..." 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**" of natural gas, 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**" of natural gas, 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.

In the chapter "**Trade and Prices**" of natural gas, the annual averages of gas prices are calculated by taking into account the delivery period of the quotations.

Critical Minerals

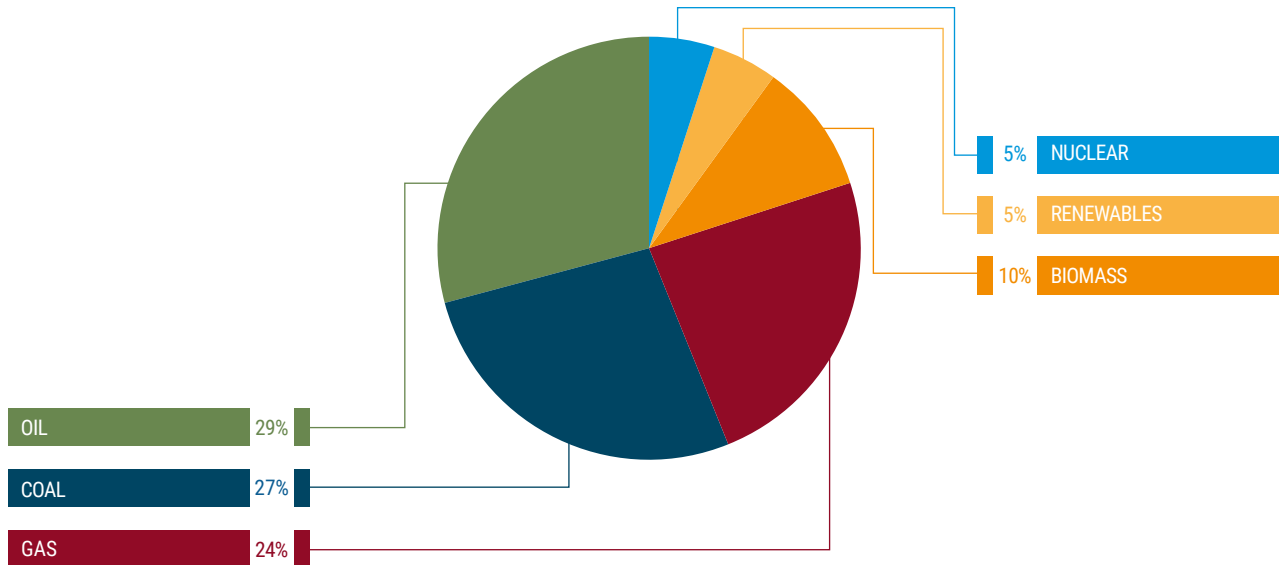
The source of the data is U.S. Geological Survey.

In all the chapters, the list of the "The World Top ..." is drawn up by ordering the countries on the basis of the last available year.

World Energy Mix

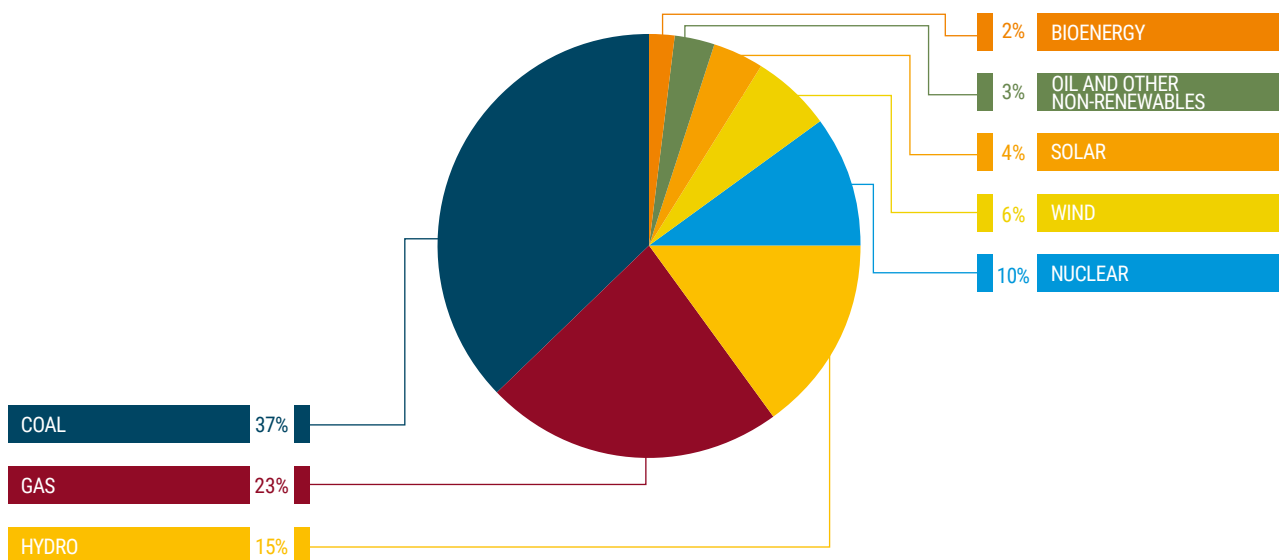
World Energy Mix 2021^(*)

(14,5 Gtoe)



World Power Generation Mix 2021^(*)

(28 thousand TWh)



^(*) Eni's estimates.

Oil - Supply and Demand

RESERVES

Areas and Aggregates
The World Top 10 Reserves Holders
Countries

PRODUCTION

Areas and Aggregates
The World Top 10 Producers
Countries
The World Top 10 Natural Gas Liquids Producers

RESERVES/PRODUCTION RATIO

Areas and Aggregates
The World Top 10 Producers Ranked by Reserves/Production Ratio
Countries

CONSUMPTION

Areas and Aggregates
The World Top 10 Consumers
Countries

PER CAPITA CONSUMPTION

Areas and Aggregates
The World Top 10 Consumers Ranked by Per Capita Consumption Ratio
Countries

PRODUCTION/CONSUMPTION RATIO

Areas and Aggregates
The World Top 10 Producers Ranked by Production/Consumption Ratio
Countries

Reserves

Areas and Aggregates^(*)

(million barrels as at 31st December)

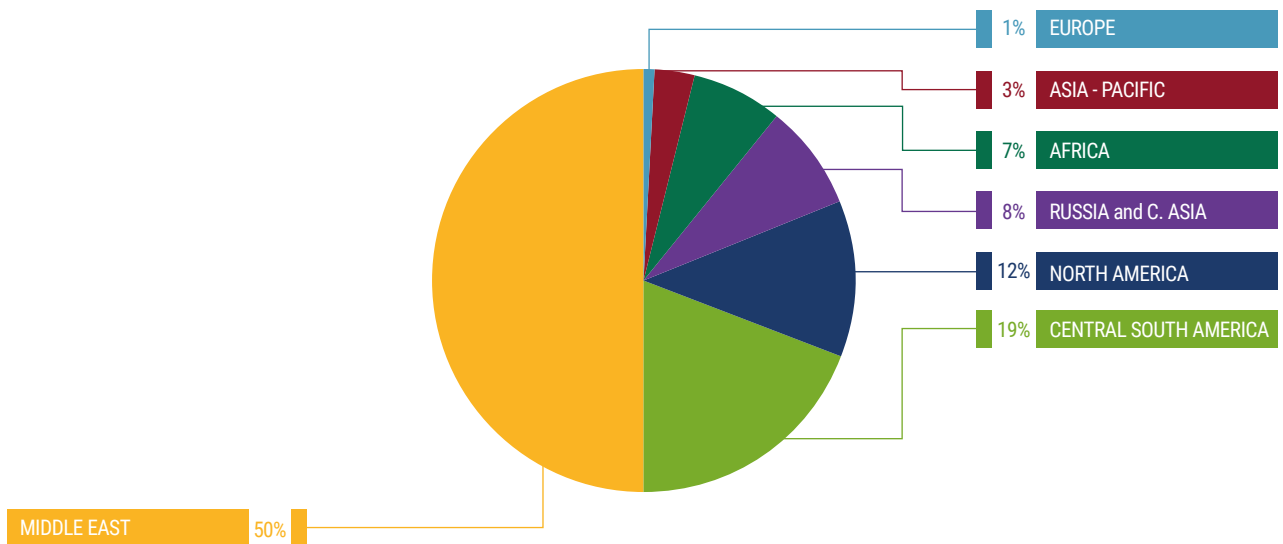
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	18,106	14,565	15,265	14,415	14,849	15,747	15,496	14,873	14,143	-4.9%	-0.3%
Russia and Central Asia	121,633	144,121	140,704	144,608	144,913	145,541	146,130	146,133	146,133	0.0%	0.1%
Middle East	754,313	793,956	802,907	807,784	804,688	803,248	863,503	865,516	869,609	0.5%	0.8%
Africa	111,954	125,244	126,833	127,106	125,882	125,042	123,534	122,885	118,206	-3.8%	-0.5%
Asia - Pacific	42,887	47,668	46,915	46,764	47,028	47,018	47,014	46,247	45,157	-2.4%	-0.5%
Americas	323,575	539,335	546,594	544,591	551,641	556,705	554,933	544,293	536,299	-1.5%	-0.1%
- North America	203,063	200,029	206,742	205,741	213,782	217,785	216,232	206,300	199,232	-3.4%	0.0%
- Central South America	120,511	339,306	339,851	338,849	337,860	338,920	338,701	337,993	337,068	-0.3%	-0.1%
World	1,372,467	1,664,887	1,679,218	1,685,268	1,689,001	1,693,300	1,750,609	1,739,946	1,729,546	-0.6%	0.3%
European Union 27	3,367	3,314	2,958	2,790	2,770	2,761	2,760	2,723	2,854	4.8%	-1.3%
MENA	812,328	858,179	867,370	872,157	869,002	867,434	927,638	929,651	933,744	0.4%	0.8%
OECD	241,644	232,485	234,628	231,522	238,734	243,079	241,440	231,215	222,838	-3.6%	-0.4%
NON OECD	1,130,824	1,432,402	1,444,590	1,453,746	1,450,268	1,450,221	1,509,169	1,508,730	1,506,707	-0.1%	0.5%
OPEC	899,653	1,165,844	1,180,767	1,187,345	1,183,674	1,182,528	1,241,281	1,242,377	1,241,819	0.0%	0.6%
NON OPEC	472,814	499,043	498,451	497,923	505,327	510,772	509,328	497,569	487,727	-2.0%	-0.2%

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

Reserves

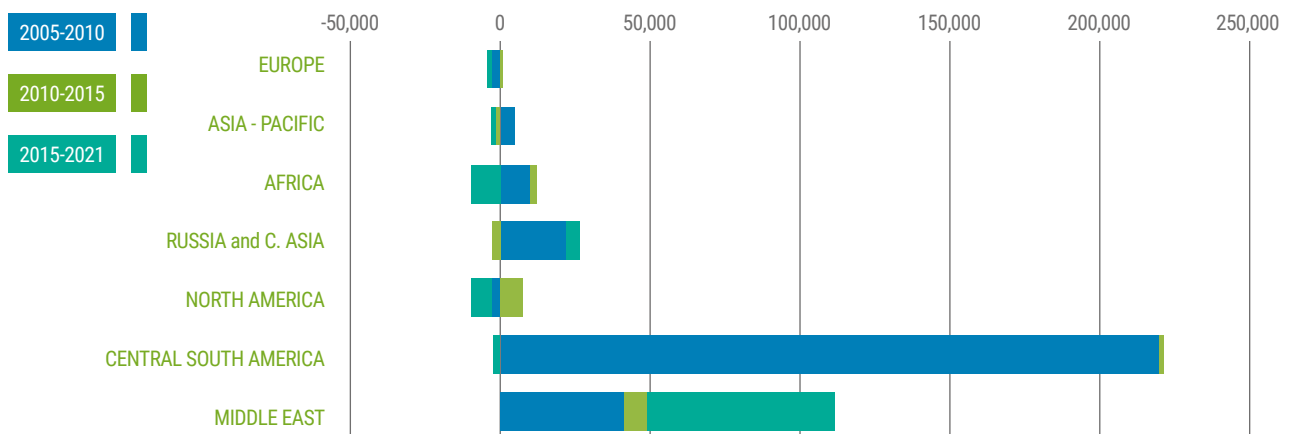
World Oil Reserves (2021)

1,729,546 million barrels as at 31st December



World Oil Reserves Growth (2005-2021)

357,078 million barrels as at 31st December



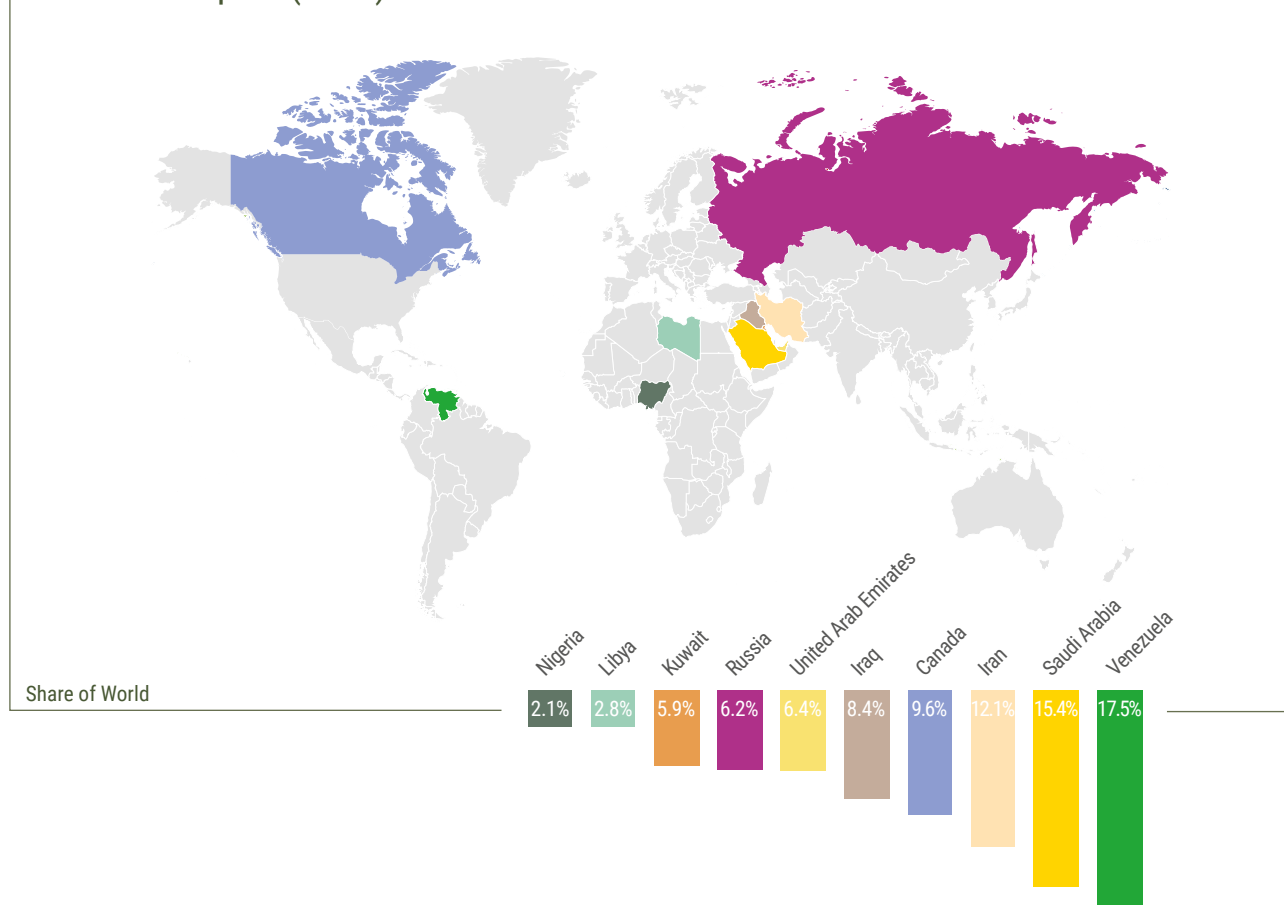
Reserves

The World Top 10 Reserves Holders^(*)

(million barrels as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Venezuela	80,012	296,501	300,878	302,250	302,809	303,806	303,806	303,561	303,468	0.0%	0.2%
Saudi Arabia	264,211	264,516	266,455	266,208	266,260	267,026	267,073	267,082	267,192	0.0%	0.1%
Iran	136,270	151,170	158,400	157,200	155,600	155,600	208,600	208,600	208,600	0.0%	3.0%
Canada	180,044	174,848	171,512	170,528	171,792	170,732	169,125	168,088	165,916	-1.3%	-0.5%
Iraq	115,000	143,100	142,503	148,766	147,223	145,019	145,019	145,019	145,019	0.0%	0.1%
United Arab Emirates	97,800	97,800	97,800	97,800	97,800	97,800	105,000	107,000	111,000	3.7%	1.2%
Russia	104,405	105,800	102,375	106,283	106,592	107,221	107,804	107,804	107,804	0.0%	0.2%
Kuwait	101,500	101,500	101,500	101,500	101,500	101,500	101,500	101,500	101,500	0.0%	0.0%
Libya	41,464	47,097	48,363	48,363	48,363	48,363	48,363	48,363	48,363	0.0%	0.2%
Nigeria	36,220	37,200	37,062	37,453	37,453	36,972	36,890	36,910	37,050	0.4%	0.0%
The World Top 10	1,156,926	1,419,532	1,426,849	1,436,351	1,435,391	1,434,039	1,493,180	1,493,927	1,495,912	0.1%	0.5%
Rest of the World	215,542	245,355	252,370	248,917	253,610	259,261	257,428	246,019	233,633	-5.0%	-0.4%
World	1,372,467	1,664,887	1,679,218	1,685,268	1,689,001	1,693,300	1,750,609	1,739,946	1,729,546	-0.6%	0.3%

The World Top 10 (2021)



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

Reserves

Countries^(*)

(million barrels as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	18,106	14,565	15,265	14,415	14,849	15,747	15,496	14,873	14,143	-4.9%	-0.3%
Albania	200	289	309	301	292	289	301	307	307	0.0%	0.6%
Austria	63	73	78	76	73	73	76	77	75	-3.4%	0.3%
Belarus	200	287	308	299	291	287	299	306	306	0.0%	0.6%
Bulgaria	15	22	23	23	22	22	23	23	23	0.0%	0.6%
Croatia	70	106	113	110	107	106	110	113	113	0.0%	0.6%
Czech Republic	15	22	23	23	22	22	23	23	23	0.0%	0.6%
Denmark	1,277	899	491	440	428	440	428	428	415	-3.0%	-6.8%
France	160	147	157	153	148	146	153	156	326	109.3%	7.6%
Germany	371	301	249	235	205	213	205	132	150	13.8%	-6.1%
Greece	7	15	16	15	15	15	15	15	15	0.0%	0.6%
Hungary	104	39	42	41	40	39	41	42	46	9.9%	1.4%
Italy ^(**)	443	559	595	521	571	554	532	547	582	6.3%	0.4%
Lithuania	12	17	19	18	18	17	18	19	19	0.0%	0.6%
Netherlands	107	145	155	151	147	145	151	154	82	-47.0%	-5.1%
Norway	9,688	6,804	8,005	7,601	7,918	8,645	8,523	7,902	7,534	-4.6%	0.9%
Poland	97	139	149	145	141	139	145	148	140	-5.3%	0.1%
Romania	458	600	600	600	600	600	600	600	600	0.0%	0.0%
Serbia	79	113	121	118	114	113	118	120	120	0.0%	0.6%
Slovakia	9	13	14	14	13	13	14	14	14	0.0%	0.6%
Spain	160	218	233	227	220	218	227	232	232	0.0%	0.6%
Turkey	303	380	407	396	384	380	396	405	410	1.4%	0.7%
Ukraine	399	573	614	597	580	573	597	610	610	0.0%	0.6%
United Kingdom	3,870	2,805	2,542	2,313	2,500	2,700	2,500	2,500	2,000	-20.0%	-3.0%

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

^(**) The original data are from Italian Ministry for Ecological Transition. They have been converted by Eni considering 1 ton of oil equal to 7.3 barrels.

Reserves

Countries^(*)

(million barrels as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	121,633	144,121	140,704	144,608	144,913	145,541	146,130	146,133	146,133	0.0%	0.1%
Russia	104,405	105,800	102,375	106,283	106,592	107,221	107,804	107,804	107,804	0.0%	0.2%
Azerbaijan	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	0.0%	0.0%
Georgia	35	51	54	53	51	51	53	54	54	0.0%	0.6%
Kazakhstan	9,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	0.0%	0.0%
Kyrgyzstan	40	58	62	60	59	58	61	62	62	0.0%	0.6%
Tajikistan	12	17	19	18	18	17	18	19	19	0.0%	0.6%
Turkmenistan	546	600	600	600	600	600	600	600	600	0.0%	0.0%
Uzbekistan	594	594	594	594	594	594	594	594	594	0.0%	0.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Middle East	754,313	793,956	802,907	807,784	804,688	803,248	863,503	865,516	869,609	0.5%	0.8%
Bahrain	126	181	194	189	183	181	189	193	176	-8.9%	-0.3%
Iran	136,270	151,170	158,400	157,200	155,600	155,600	208,600	208,600	208,600	0.0%	3.0%
Iraq	115,000	143,100	142,503	148,766	147,223	145,019	145,019	145,019	145,019	0.0%	0.1%
Israel	2	3	3	3	3	3	3	3	3	0.0%	0.6%
Jordan	1	1	2	2	1	1	2	2	2	0.0%	0.6%
Kuwait	101,500	101,500	101,500	101,500	101,500	101,500	101,500	101,500	101,500	0.0%	0.0%
Oman	5,572	5,500	5,306	5,373	5,373	5,373	5,373	5,373	5,373	0.0%	9.0%
Qatar	27,910	24,684	25,244	25,244	25,244	25,244	25,244	25,244	25,244	0.0%	0.2%
Saudi Arabia	264,211	264,516	266,455	266,208	266,260	267,026	267,073	267,082	267,192	0.0%	0.1%
Syria	3,000	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	0.0%	0.0%
United Arab Emirates	97,800	97,800	97,800	97,800	97,800	97,800	105,000	107,000	111,000	3.7%	1.2%
Yemen	2,921	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	0.0%	0.0%

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

Reserves

Countries^(*)

(million barrels as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	111,954	125,244	126,833	127,106	125,882	125,042	123,534	122,885	118,206	-3.8%	-0.5%
Algeria	12,270	12,200	12,200	12,200	12,200	12,200	12,200	12,200	12,200	0.0%	0.0%
Angola	9,050	9,055	9,524	9,523	8,384	8,160	7,783	7,231	2,516	-65.2%	-11.0%
Benin	9	8	12	11	12	12	12	12	12	0.0%	4.0%
Cameroon	404	290	311	302	293	290	303	309	309	0.0%	0.6%
Chad	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	0.0%	0.0%
Congo	1,905	2,000	2,982	2,982	2,982	2,982	1,947	1,811	1,811	0.0%	-0.9%
Côte d'Ivoire	101	145	155	151	147	145	151	154	154	0.0%	0.6%
Dem. Rep. Congo	189	261	280	272	264	261	272	278	175	-37.2%	-3.6%
Egypt	3,720	4,500	3,473	3,384	3,325	3,197	3,146	3,146	3,146	0.0%	-3.2%
Equatorial Guinea	1,805	1,705	1,100	1,100	1,100	1,100	1,100	1,100	1,100	0.0%	-3.9%
Gabon	2,146	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	0.0%	0.0%
Ghana	17	677	660	660	660	660	660	660	660	0.0%	-0.2%
Libya	41,464	47,097	48,363	48,363	48,363	48,363	48,363	48,363	48,363	0.0%	0.2%
Mauritania	0	145	155	151	147	145	151	154	154	0.0%	0.6%
Morocco	1	1	2	2	1	1	2	2	2	0.0%	0.6%
Mozambique	15	15	15	15	15	15	15	15	15	0.0%	0.2%
Niger	0	0	147	147	145	147	147	147	147	0.0%	
Nigeria	36,220	37,200	37,062	37,453	37,453	36,972	36,890	36,910	37,050	0.4%	0.0%
Sierra Leone	0	0	440	440	440	440	440	440	440	0.0%	
South Africa	16	22	23	23	22	22	23	23	23	0.0%	0.6%
South Sudan			3,500	3,500	3,500	3,500	3,500	3,500	3,500	0.0%	
Sudan	563	5,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	100.0%	0.0%
Tunisia	560	425	425	425	425	425	425	425	425	0.0%	0.0%
Uganda	0	997	1,004	1,004	1,004	1,004	1,004	1,004	1,004	0.0%	0.1%

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

Reserves

Countries^(*)

(million barrels as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	42,887	47,668	46,915	46,764	47,028	47,018	47,014	46,247	45,157	-2.4%	-0.5%
Afghanistan	0	0	0	0	88	88	88	88	88	0.0%	
Australia	3,718	3,831	2,390	2,390	2,390	2,390	2,390	2,390	1,762	-26.3%	-6.8%
Bangladesh	28	41	44	42	41	41	42	43	43	0.0%	0.6%
Brunei	1,105	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	0.0%	0.0%
China	18,250	23,268	25,626	25,664	25,948	26,190	25,963	25,963	26,430	1.8%	1.2%
India	5,919	5,833	4,790	4,680	4,550	4,480	4,660	4,540	3,618	-20.3%	-4.2%
Indonesia	4,188	3,990	3,230	3,230	3,310	3,170	3,150	2,480	2,440	-1.6%	-4.4%
Japan	60	64	68	66	65	64	67	68	68	0.0%	0.6%
Malaysia	5,252	3,739	3,600	3,600	3,600	3,600	3,600	3,600	3,600	0.0%	-0.3%
Mongolia	15	15	257	257	257	257	315	315	315	0.0%	32.2%
Myanmar	50	73	78	76	73	73	76	77	77	0.0%	0.6%
New Zealand	54	87	93	91	88	87	91	93	94	1.7%	0.7%
Pakistan	292	454	487	473	459	454	473	483	483	0.0%	0.6%
Papua New Guinea	242	128	137	133	129	128	133	136	122	-10.2%	-0.4%
Philippines	140	202	216	210	204	202	210	215	215	0.0%	0.6%
Taiwan	2	3	3	3	3	3	3	3	3	0.0%	0.6%
Thailand	453	442	396	349	323	293	253	253	298	17.8%	-3.5%
Vietnam	3,119	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	0.0%	0.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	323,575	539,335	546,594	544,591	551,641	556,705	554,933	544,293	536,299	-1.5%	-0.1%
Argentina	2,180	2,524	2,395	2,162	2,017	2,387	2,483	2,483	2,411	-2.9%	-0.4%
Barbados	3	3	3	3	3	3	3	3	3	-0.6%	0.5%
Belize	0	10	11	11	10	10	11	11	11	0.0%	0.6%
Bolivia	445	675	723	702	682	674	703	718	718	0.0%	0.6%
Brazil	11,773	13,987	13,034	12,666	12,835	13,239	12,713	11,925	11,152	-6.5%	-2.0%
Canada	180,044	174,848	171,512	170,528	171,792	170,732	169,125	168,088	165,916	-1.3%	-0.5%
Chile	151	218	233	227	220	218	227	232	232	0.0%	0.6%
Colombia	1,453	1,900	2,308	2,002	1,665	1,782	1,960	2,036	1,820	-10.6%	-0.4%
Cuba	757	180	193	187	182	180	188	192	192	0.0%	0.6%
Ecuador	5,180	7,206	8,273	8,273	8,273	8,273	8,273	8,273	8,273	0.0%	1.3%
Guatemala	93	120	129	125	122	120	126	128	107	-16.7%	-1.1%
Mexico	16,470	13,796	9,632	8,652	7,695	7,010	7,042	7,319	7,584	3.6%	-5.3%
Peru	1,078	1,240	1,187	1,225	985	859	803	746	732	-2.0%	-4.7%
Suriname	112	116	124	121	117	116	121	124	124	0.4%	0.6%
Trinidad and Tobago	803	830	728	243	243	243	243	243	243	0.0%	-10.6%
United States	23,019	25,181	35,230	35,213	41,990	47,053	47,107	38,212	33,315	-12.8%	2.6%
Venezuela	80,012	296,501	300,878	302,250	302,809	303,806	303,806	303,561	303,468	0.0%	0.2%

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

Production

Areas and Aggregates^(*)

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

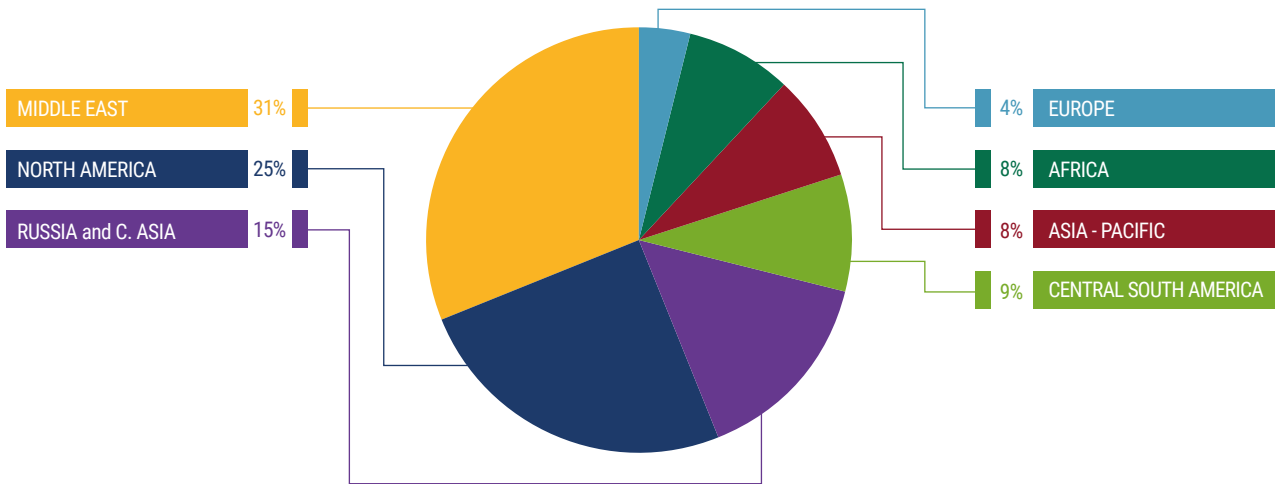
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	5,892	4,408	3,714	3,733	3,686	3,671	3,565	3,766	3,588	-4.7%	-1.9%
Russia and Central Asia	11,700	13,414	13,949	14,123	14,233	14,488	14,554	13,411	13,686	2.1%	0.2%
Middle East	25,563	25,366	29,671	31,416	30,959	31,495	30,023	27,596	27,934	1.2%	0.9%
Africa	9,906	10,240	8,323	7,796	8,205	8,298	8,456	7,029	7,404	5.3%	-2.9%
Asia - Pacific	7,960	8,376	8,316	7,997	7,779	7,646	7,694	7,509	7,423	-1.1%	-1.1%
Americas	21,067	21,550	27,996	27,114	27,783	29,609	31,069	29,742	30,247	1.7%	3.1%
- North America	10,203	11,217	17,554	17,121	18,284	20,897	22,816	21,905	22,348	2.0%	6.5%
- Central South America	10,864	10,333	10,442	9,993	9,499	8,712	8,253	7,837	7,899	0.8%	-2.4%
World	82,088	83,355	91,971	92,178	92,644	95,207	95,361	89,053	90,282	1.4%	0.7%
European Union 27	888	715	616	543	543	532	494	497	472	-5.0%	-3.7%
MENA	29,937	29,531	32,450	34,164	34,051	34,729	33,343	29,970	31,140	3.9%	0.5%
OECD	20,868	19,523	24,886	24,447	25,342	27,870	29,627	28,937	29,113	0.6%	3.7%
NON OECD	61,220	63,832	67,084	67,731	67,303	67,337	65,733	60,116	61,169	1.8%	-0.4%
OPEC	33,935	33,309	36,030	37,097	36,821	36,788	34,961	30,800	31,578	2.5%	-0.5%
NON OPEC	48,152	50,046	55,941	55,081	55,824	58,420	60,399	58,253	58,703	0.8%	1.5%

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* data. All rights reserved.

Production

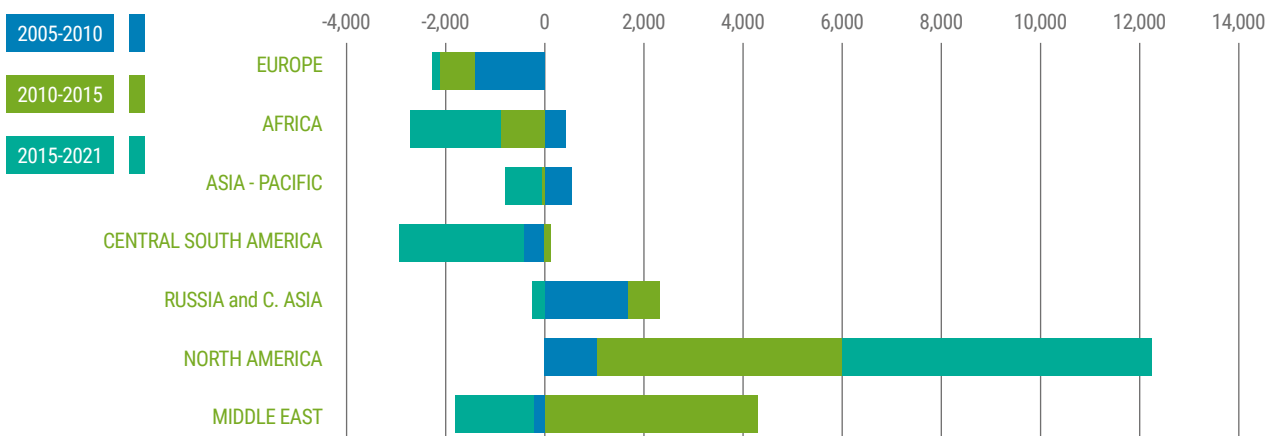
World Oil Production (2021)

90,282 thousand barrels/day



World Oil Production Growth (2005-2021)

8,194 thousand barrels/day



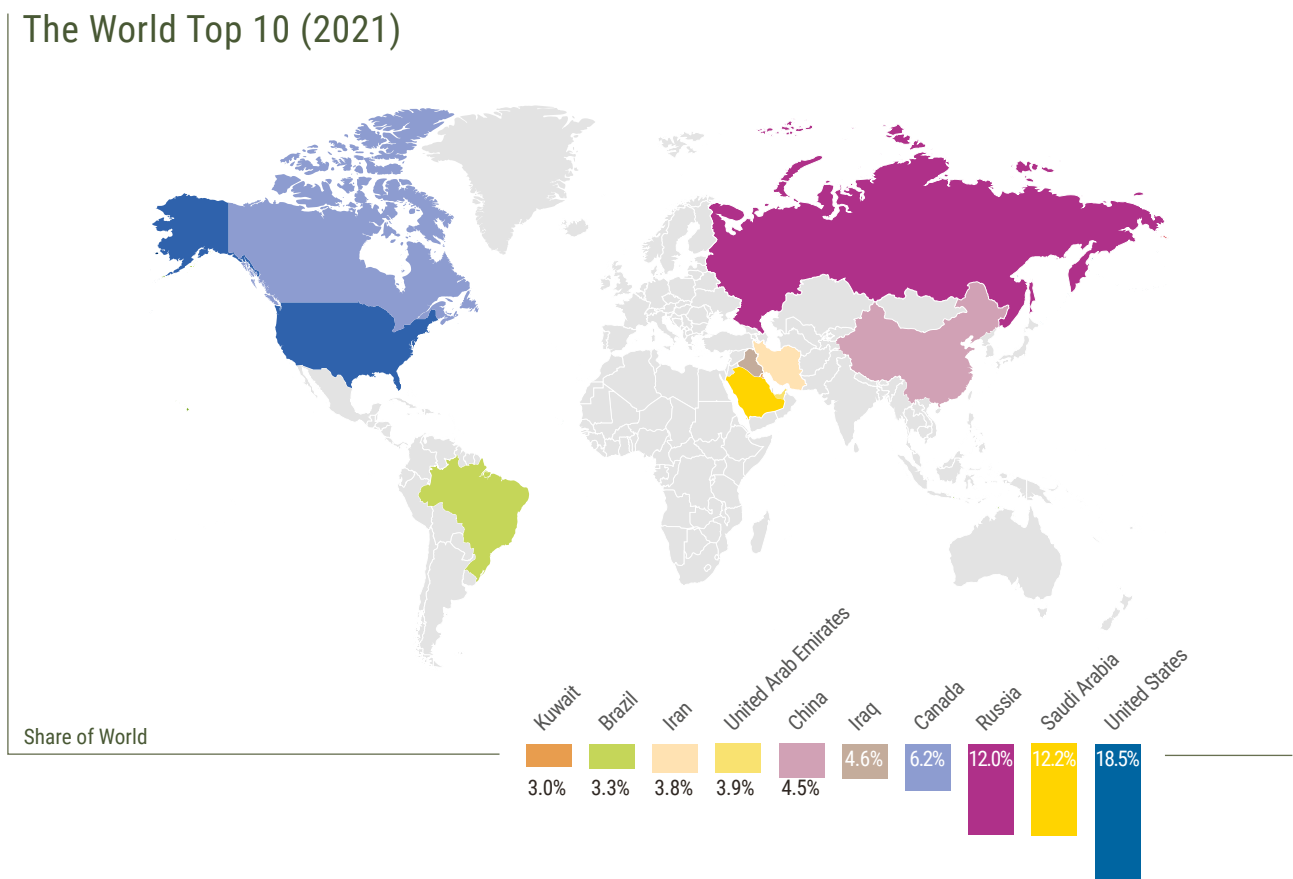
Production

The World Top 10 Producers^(*)

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

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
United States	7,078	7,758	13,018	12,506	13,294	15,489	17,206	16,556	16,723	1.0%	7.2%
Saudi Arabia	10,927	9,971	12,045	12,344	11,876	12,345	11,914	11,106	11,036	-0.6%	0.9%
Russia	9,636	10,390	11,084	11,328	11,321	11,494	11,582	10,607	10,867	2.5%	0.4%
Canada	3,125	3,458	4,536	4,615	4,990	5,408	5,610	5,349	5,625	5.2%	4.5%
Iraq	1,833	2,430	4,078	4,503	4,563	4,663	4,812	4,148	4,132	-0.4%	4.9%
China	3,596	4,038	4,271	3,982	3,892	3,848	3,921	3,970	4,060	2.2%	0.0%
United Arab Emirates	2,994	2,831	3,762	3,848	3,740	3,801	4,009	3,694	3,561	-3.6%	2.1%
Iran	4,200	4,215	3,573	4,402	4,722	4,552	3,290	2,918	3,396	16.4%	-1.9%
Brazil	1,708	2,152	2,547	2,628	2,755	2,713	2,897	3,044	3,004	-1.3%	3.1%
Kuwait	2,548	2,498	3,097	3,194	3,014	3,050	2,987	2,717	2,719	0.1%	0.8%
The World Top 10	47,645	49,741	62,011	63,350	64,167	67,362	68,228	64,108	65,123	1.6%	2.5%
Rest of the World	34,443	33,614	29,959	28,828	28,478	27,845	27,133	24,944	25,159	0.9%	-2.6%
World	82,088	83,355	91,971	92,178	92,644	95,207	95,361	89,053	90,282	1.4%	0.7%

The World Top 10 (2021)



^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

Production

Countries^(*)

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

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	5,892	4,408	3,714	3,733	3,686	3,671	3,565	3,766	3,588	-4.7%	-1.9%
Albania	7	13	23	19	17	16	18	17	16	-6.8%	2.0%
Austria	19	21	17	15	14	13	13	11	11	1.7%	-5.8%
Belarus	36	34	33	33	32	34	34	34	34	-1.2%	0.0%
Bulgaria	1	1	1	1	1	1	1	1	1	0.0%	0.0%
Croatia	20	18	14	15	15	15	14	13	12	-4.5%	-3.3%
Czech Republic	6	5	7	5	7	6	5	6	6	0.4%	2.0%
Denmark	388	255	157	141	138	116	102	75	71	-6.0%	-11.0%
Estonia	5	10	16	14	18	22	23	23	22	-4.7%	7.2%
France	25	42	31	31	30	21	34	35	40	16.4%	-0.4%
Germany	78	76	67	68	67	67	62	76	60	-21.1%	-2.2%
Greece	2	2	1	3	3	4	3	2	1	-35.6%	-5.9%
Hungary	32	25	18	21	22	23	23	20	22	9.4%	-1.0%
Italy	121	97	131	96	97	110	89	111	108	-3.0%	0.9%
Netherlands	47	33	36	24	24	23	18	20	19	-2.9%	-5.0%
Norway	2,962	2,138	1,948	1,995	1,969	1,850	1,740	2,007	2,041	1.7%	-0.4%
Poland	25	24	28	22	24	32	30	30	28	-8.0%	1.2%
Portugal	0	1	0	1	1	0	1	0	0	-93.5%	-25.6%
Romania	112	89	82	78	74	73	73	70	67	-4.2%	-2.5%
Serbia	13	17	20	18	18	17	17	16	15	-6.8%	-1.0%
Slovakia	4	4	5	4	6	3	3	3	4	13.5%	0.5%
Spain	3	12	5	3	2	2	1	1	0	-76.1%	-33.5%
Turkey	43	48	48	49	49	55	58	62	66	7.7%	2.9%
Ukraine	97	79	54	50	49	51	55	54	54	-0.2%	-3.3%
United Kingdom	1,845	1,365	972	1,026	1,009	1,116	1,150	1,078	889	-17.5%	-3.8%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	11,700	13,414	13,949	14,123	14,233	14,488	14,554	13,411	13,686	2.1%	0.2%
Russia	9,636	10,390	11,084	11,328	11,321	11,494	11,582	10,607	10,867	2.5%	0.4%
Azerbaijan	449	1,042	849	829	784	793	765	699	704	0.7%	-3.5%
Georgia	1	1	1	0	0	0	0	0	0	-6.6%	-9.1%
Kazakhstan	1,293	1,694	1,694	1,669	1,848	1,937	1,942	1,836	1,846	0.5%	0.8%
Kyrgyzstan	2	1	1	1	1	1	1	1	1	-6.7%	-2.3%
Tajikistan	0	0	0	0	0	0	0	0	0	0.3%	5.0%
Turkmenistan	210	211	268	247	232	219	223	229	227	-1.1%	0.7%
Uzbekistan	108	75	52	48	46	43	40	38	41	7.5%	-5.4%

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Production

Countries^(*)

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

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Middle East	25,563	25,366	29,671	31,416	30,959	31,495	30,023	27,596	27,934	1.2%	0.9%
Bahrain	198	192	213	213	210	208	208	181	185	2.1%	-0.3%
Iran	4,200	4,215	3,573	4,402	4,722	4,552	3,290	2,918	3,396	16.4%	-1.9%
Iraq	1,833	2,430	4,078	4,503	4,563	4,663	4,812	4,148	4,132	-0.4%	4.9%
Kuwait	2,548	2,498	3,097	3,194	3,014	3,050	2,987	2,717	2,719	0.1%	0.8%
Oman	777	871	988	1,012	978	986	979	957	979	2.3%	1.1%
Qatar	1,216	1,668	1,856	1,859	1,787	1,800	1,724	1,771	1,822	2.9%	0.8%
Saudi Arabia	10,927	9,971	12,045	12,344	11,876	12,345	11,914	11,106	11,036	-0.6%	0.9%
Syria	448	385	27	25	25	24	34	43	43	1.1%	-18.0%
United Arab Emirates	2,994	2,831	3,762	3,848	3,740	3,801	4,009	3,694	3,561	-3.6%	2.1%
Yemen	421	306	32	16	44	67	67	60	60	-1.1%	-13.8%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	9,906	10,240	8,323	7,796	8,205	8,298	8,456	7,029	7,404	5.3%	-2.9%
Algeria	1,931	1,720	1,590	1,605	1,530	1,512	1,490	1,356	1,373	1.2%	-2.0%
Angola	1,245	1,800	1,796	1,743	1,701	1,543	1,449	1,328	1,178	-11.3%	-3.8%
Cameroon	89	64	93	92	76	69	71	73	68	-7.6%	0.5%
Chad	170	120	139	129	112	128	118	106	96	-9.8%	-2.0%
Congo	247	313	234	217	266	331	339	303	275	-9.3%	-1.2%
Côte d'Ivoire	40	39	26	32	40	33	36	28	28	-0.4%	-3.0%
Dem. Rep. Congo	25	22	21	19	24	23	23	22	21	-4.9%	-0.3%
Egypt	649	700	696	664	639	649	633	597	571	-4.4%	-1.8%
Equatorial Guinea	380	311	276	231	212	208	196	190	180	-5.7%	-4.9%
Gabon	270	249	230	227	200	190	212	198	182	-8.4%	-2.8%
Ghana	6	7	106	92	157	177	207	196	166	-15.1%	33.6%
Libya	1,721	1,661	437	426	877	1,029	1,159	384	1,225	218.7%	-2.7%
Mauritania	0	9	5	4	3	0	0	0	0		-100.0%
Niger	0	0	15	14	15	16	15	14	12	-9.6%	
Nigeria	2,546	2,535	2,246	1,928	1,986	2,030	2,123	1,879	1,681	-10.5%	-3.7%
South Africa	208	141	106	103	106	102	104	92	98	6.6%	-3.3%
South Sudan	0	0	148	137	147	144	172	165	153	-7.3%	
Sudan	305	465	105	81	67	71	69	61	62	0.9%	-16.8%
Tunisia	73	84	55	53	46	43	39	37	38	3.1%	-7.0%

^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

Production

Countries^(*)

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

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	7,960	8,376	8,316	7,997	7,779	7,646	7,694	7,509	7,423	-1.1%	-1.1%
Australia	545	549	371	345	315	342	453	453	440	-2.9%	-2.0%
Bangladesh	3	7	8	11	12	12	11	11	10	-3.0%	3.7%
Brunei	206	169	127	121	113	111	121	110	109	-1.2%	-3.9%
China	3,596	4,038	4,271	3,982	3,892	3,848	3,921	3,970	4,060	2.2%	0.0%
East Timor	89	88	45	30	21	15	23	14	14	0.0%	-15.4%
India	778	880	872	852	861	845	803	750	728	-2.9%	-1.7%
Indonesia	1,086	991	817	866	824	798	772	734	683	-7.0%	-3.3%
Japan	19	18	12	11	12	10	11	10	10	-3.6%	-5.4%
Malaysia	778	717	701	737	729	723	670	604	566	-6.3%	-2.1%
Mongolia	1	6	24	22	20	19	18	18	17	-4.9%	9.8%
Myanmar	22	18	11	11	11	9	8	8	8	-3.0%	-7.5%
New Zealand	24	60	48	41	37	30	30	26	23	-11.2%	-8.2%
Pakistan	75	72	100	102	106	106	104	102	100	-2.4%	3.0%
Papua New Guinea	54	32	58	56	50	36	35	39	37	-5.4%	1.4%
Philippines	15	20	15	15	13	13	11	11	10	-3.0%	-5.7%
South Korea	10	21	22	24	25	29	28	34	37	9.0%	5.4%
Taiwan	1	0	0	0	0	0	0	0	0		
Thailand	289	382	452	462	457	446	443	411	380	-7.5%	0.0%
Vietnam	371	308	363	310	280	252	232	204	191	-6.2%	-4.2%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	21,067	21,550	27,996	27,114	27,783	29,609	31,069	29,742	30,247	1.7%	3.1%
Argentina	807	734	650	625	595	621	647	609	644	5.8%	-1.2%
Barbados	1	1	1	1	1	1	1	1	1	-5.0%	-5.6%
Bolivia	50	56	78	78	76	72	68	64	63	-1.3%	1.2%
Brazil	1,708	2,152	2,547	2,628	2,755	2,713	2,897	3,044	3,004	-1.3%	3.1%
Canada	3,125	3,458	4,536	4,615	4,990	5,408	5,610	5,349	5,625	5.2%	4.5%
Chile	8	13	6	5	6	9	12	9	9	-6.4%	-4.0%
Colombia	528	788	1,014	906	862	873	893	788	744	-5.6%	-0.5%
Cuba	53	55	53	48	48	47	42	40	38	-6.6%	-3.4%
Ecuador	536	470	548	555	537	523	536	484	477	-1.6%	0.1%
Guatemala	18	11	10	8	9	9	9	8	8	-9.5%	-3.2%
Guyana	0	0	0	0	0	0	1	70	110	56.4%	
Mexico	3,766	2,959	2,597	2,463	2,229	2,073	1,928	1,926	1,952	1.3%	-3.7%
Peru	116	156	150	134	133	133	140	125	121	-3.2%	-2.3%
Suriname	12	15	16	16	16	16	16	16	15	-4.9%	-0.1%
Trinidad and Tobago	171	148	109	97	99	87	82	76	75	-1.9%	-6.1%
United States	7,078	7,758	13,018	12,506	13,294	15,489	17,206	16,556	16,723	1.0%	7.2%
Venezuela	3,093	2,775	2,665	2,429	2,133	1,534	982	578	641	11.0%	-12.5%

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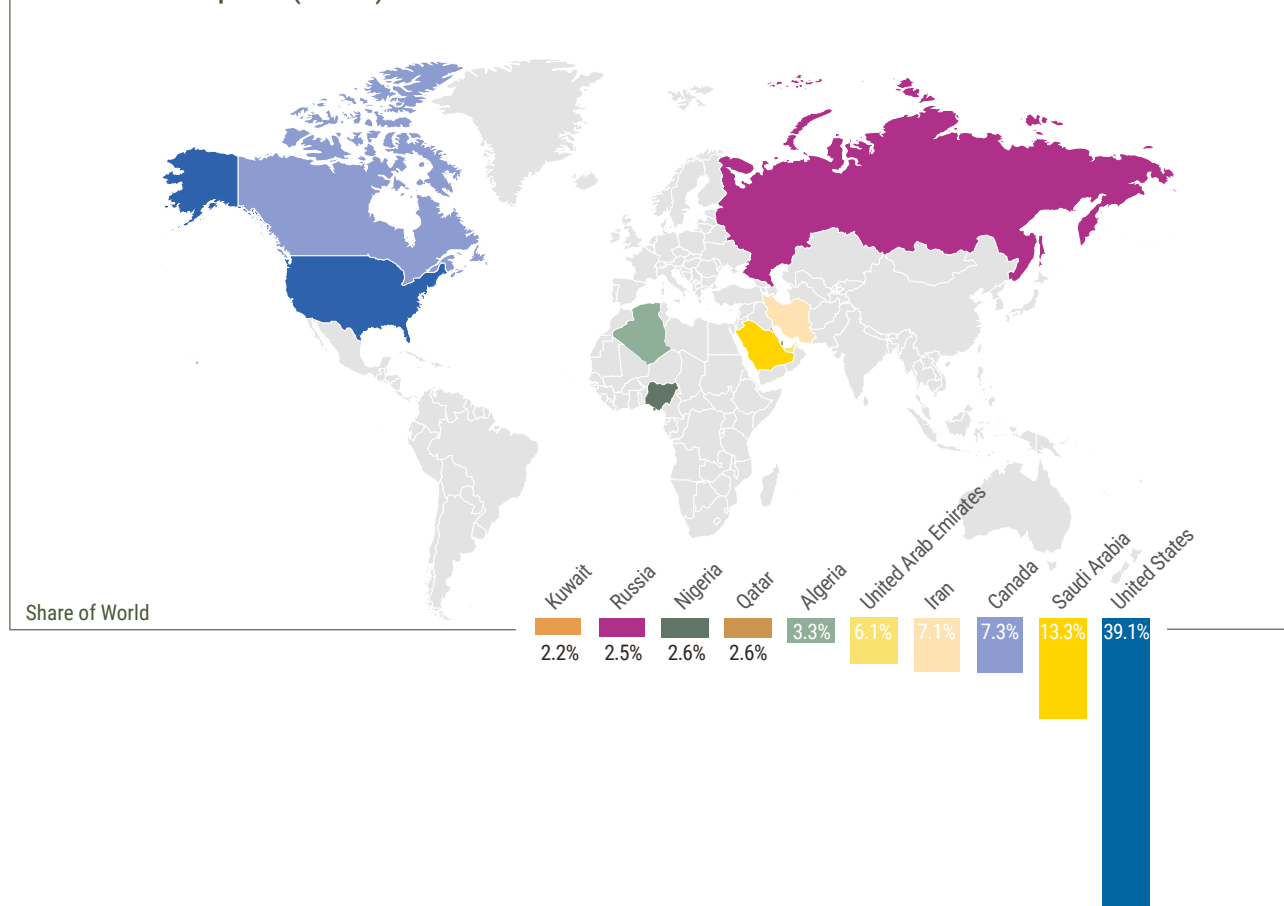
Production

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

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
United States	1,717	2,074	3,342	3,509	3,783	4,369	4,825	5,175	5,397	4.3%	9.1%
Saudi Arabia	1,493	1,710	1,805	1,848	1,838	1,939	1,890	1,816	1,833	0.9%	0.6%
Canada	668	608	708	792	839	904	961	949	1,007	6.1%	4.7%
Iran	321	510	727	850	910	973	931	922	977	6.0%	6.1%
United Arab Emirates	536	520	816	798	807	803	832	831	842	1.3%	4.5%
Algeria	603	515	481	494	483	470	466	458	462	0.8%	-1.0%
Qatar	258	339	351	351	351	351	351	351	360	2.5%	0.5%
Nigeria	141	464	459	446	443	413	377	369	355	-3.8%	-2.4%
Russia	145	251	365	364	341	333	332	338	343	1.5%	2.9%
Kuwait	125	200	310	310	307	305	305	303	303	0.2%	3.9%
The World Top 10	6,008	7,190	9,363	9,762	10,102	10,860	11,269	11,512	11,879	3.2%	4.7%
Rest of the World	2,263	2,448	2,254	2,256	2,297	2,235	2,199	2,035	1,932	-5.0%	-2.1%
World	8,272	9,638	11,617	12,018	12,399	13,095	13,467	13,547	13,811	1.9%	3.3%

The World Top 10 (2021)



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Reserves/Production Ratio

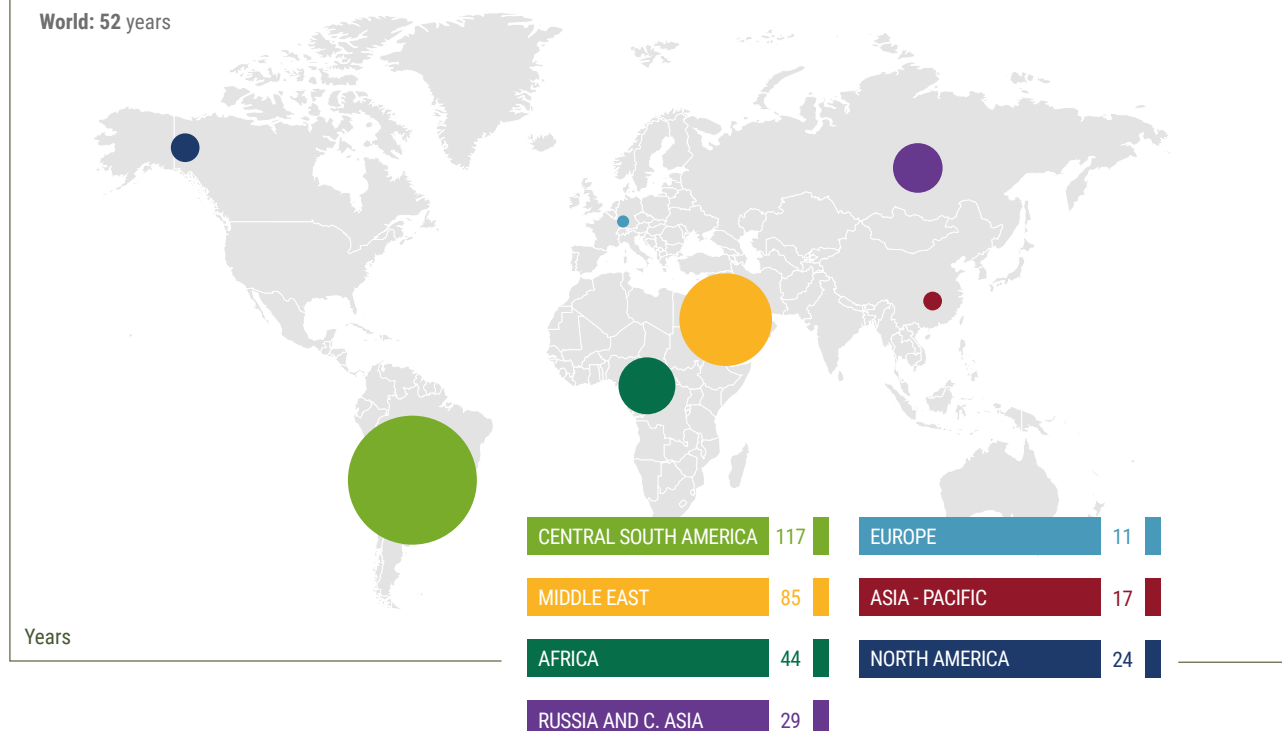
Areas and Aggregates^(*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	8	9	11	11	11	12	12	11	11
Russia and Central Asia	28	29	28	28	28	28	28	30	29
Middle East	81	86	74	70	71	70	79	86	85
Africa	31	34	42	45	42	41	40	48	44
Asia - Pacific	15	16	15	16	17	17	17	17	17
Americas	42	69	53	55	54	52	49	50	49
- North America	55	49	32	33	32	29	26	26	24
- Central South America	30	90	89	93	97	107	112	118	117
World	46	55	50	50	50	49	50	54	52
European Union 27	10	13	13	14	14	14	15	15	17
MENA	74	80	73	70	70	68	76	85	82
OECD	32	33	26	26	26	24	22	22	21
NON OECD	51	61	59	59	59	59	63	69	67
OPEC	73	96	90	88	88	88	97	111	108
NON OPEC	27	27	24	25	25	24	23	23	23

Reserves/Production Ratio (2021)

World: 52 years



^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO2 Data*, IEA (2022) *Monthly Oil Data Services* and other official data sources. All rights reserved.

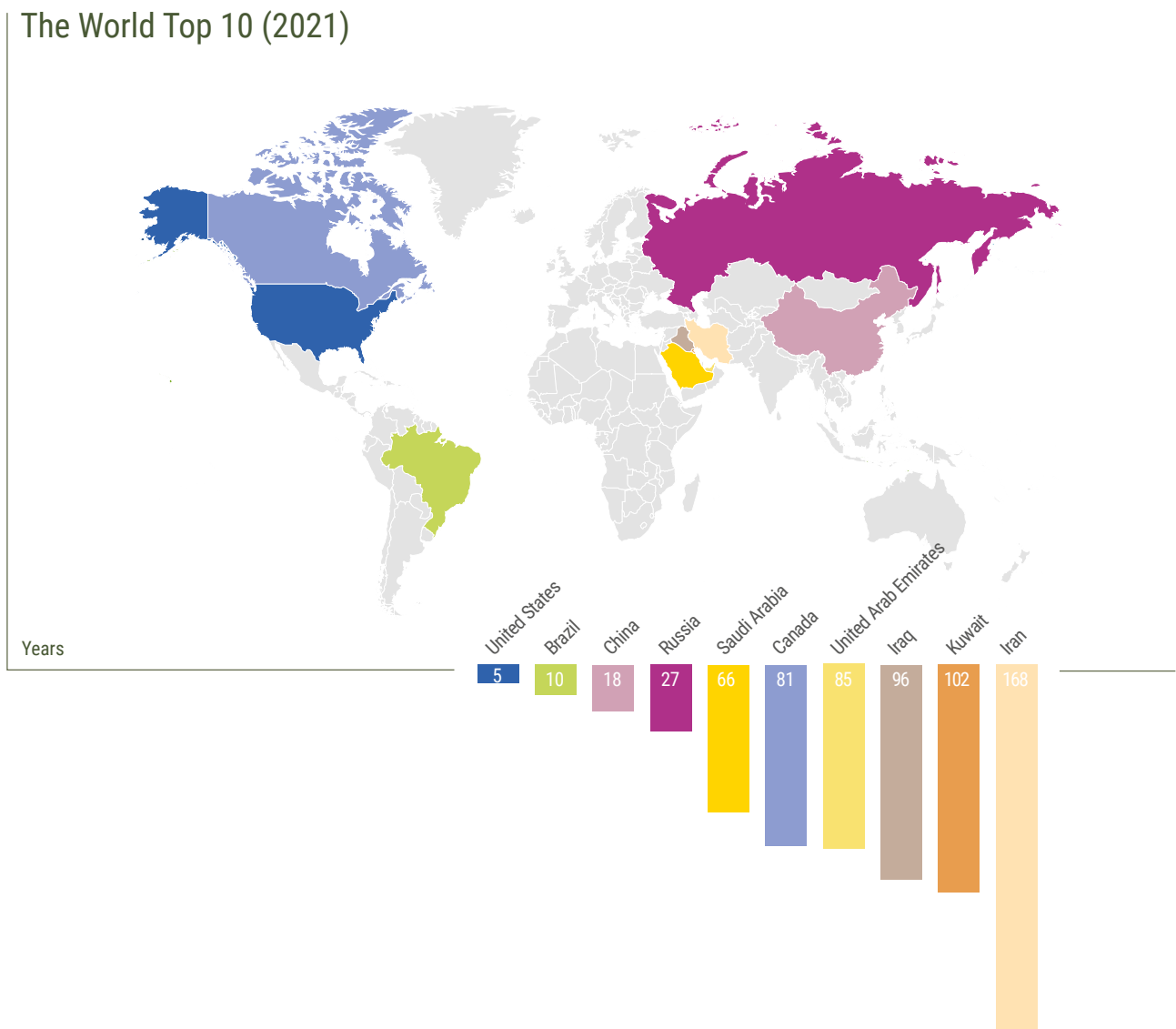
Reserves/Production Ratio

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

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Iran	89	98	121	98	90	94	174	196	168
Kuwait	109	111	90	87	92	91	93	102	102
Iraq	172	161	96	91	88	85	83	96	96
United Arab Emirates	89	95	71	70	72	70	72	79	85
Canada	158	139	104	101	94	86	83	86	81
Saudi Arabia	66	73	61	59	61	59	61	66	66
Russia	30	28	25	26	26	26	26	28	27
China	14	16	16	18	18	19	18	18	18
Brazil	19	18	14	13	13	13	12	11	10
United States	9	9	7	8	9	8	8	6	5

The World Top 10 (2021)



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Reserves/Production Ratio

Countries^(*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	8	9	11	11	11	12	12	11	11
Albania	78	61	37	43	47	49	46	49	52
Austria	9	9	12	14	14	15	17	20	19
Belarus	15	23	26	25	25	23	24	24	25
Bulgaria	42	60	64	62	60	60	62	63	63
Croatia	9	16	23	20	20	20	21	24	25
Czech Republic	7	12	9	11	8	10	13	10	10
Denmark	9	10	9	9	8	10	11	16	16
France	18	10	14	13	13	19	12	12	22
Germany	13	11	10	9	8	9	9	5	7
Greece	9	17	34	13	14	10	12	23	36
Hungary	9	4	6	5	5	5	5	6	6
Italy	10	16	12	15	16	14	16	13	15
Netherlands	6	12	12	17	17	17	23	22	12
Norway	9	9	11	10	11	13	13	11	10
Poland	11	16	15	18	16	12	13	14	14
Romania	11	19	20	21	22	22	23	23	24
Serbia	17	18	17	18	17	18	19	20	22
Slovakia	6	10	9	10	6	12	13	12	10
Spain	129	51	135	217	251	331	763	1,156	
Turkey	19	22	23	22	21	19	19	18	17
Ukraine	11	20	31	32	33	31	30	31	31
United Kingdom	6	6	7	6	7	7	6	6	6
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia and Central Asia	28	29	28	28	28	28	28	30	29
Russia	30	28	25	26	26	26	26	28	27
Azerbaijan	43	18	23	23	24	24	25	27	27
Georgia	73	165	292						
Kazakhstan	19	49	49	49	44	42	42	45	45
Kyrgyzstan	51	175	140	151	162	177	203	224	240
Turkmenistan	7	8	6	7	7	8	7	7	7
Uzbekistan	15	22	31	34	35	38	41	43	40

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Reserves/Production Ratio

Countries^(*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Middle East	81	86	74	70	71	70	79	86	85
Bahrain	2	3	3	2	2	2	2	3	3
Iran	89	98	121	98	90	94	174	196	168
Iraq	172	161	96	91	88	85	83	96	96
Kuwait	109	111	90	87	92	91	93	102	102
Oman	20	17	15	15	15	15	15	15	15
Qatar	63	41	37	37	39	38	40	39	38
Saudi Arabia	66	73	61	59	61	59	61	66	66
Syria	18	18	258	272	278	285	204	159	157
United Arab Emirates	89	95	71	70	72	70	72	79	85
Yemen	19	27	257	505	187	124	123	136	138
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Africa	31	34	42	45	42	41	40	48	44
Algeria	17	19	21	21	22	22	22	25	24
Angola	20	14	15	15	14	14	15	15	6
Cameroon	12	12	9	9	11	12	12	12	12
Chad	24	34	30	32	37	32	35	39	43
Congo	21	18	35	38	31	25	16	16	18
Côte d'Ivoire	7	10	16	13	10	12	11	15	15
Dem. Rep. Congo	21	33	37	39	30	31	32	34	23
Egypt	16	18	14	14	14	13	14	14	15
Equatorial Guinea	13	15	11	13	14	15	15	16	17
Gabon	22	22	24	24	27	29	26	28	30
Ghana	8	271	17	20	11	10	9	9	11
Libya	66	78	303	311	151	129	114	345	108
Mauritania		43	92	99	117				
Niger			26	29	26	25	27	30	33
Nigeria	39	40	45	53	52	50	48	54	60
South Sudan			65	70	65	66	56	58	63
Sudan	5	29	39	51	61	58	59	67	67
Tunisia	21	14	21	22	26	27	30	32	31

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Reserves/Production Ratio

Countries^(*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Asia - Pacific	15	16	15	16	17	17	17	17	17
Australia	19	19	18	19	21	19	14	14	11
Bangladesh	26	16	15	11	9	9	11	11	11
Brunei	15	18	24	25	27	27	25	27	28
China	14	16	16	18	18	19	18	18	18
India	21	18	15	15	14	15	16	17	14
Indonesia	11	11	11	10	11	11	11	9	10
Japan	9	10	15	16	15	17	17	18	19
Malaysia	18	14	14	13	14	14	15	16	17
Mongolia	74	7	29	32	35	36	47	49	52
Myanmar	6	11	19	19	18	22	26	27	28
New Zealand	6	4	5	6	6	8	8	10	11
Pakistan	11	17	13	13	12	12	12	13	13
Papua New Guinea	12	11	6	7	7	10	10	9	9
Philippines	26	28	39	38	43	42	52	54	56
Taiwan	12								
Thailand	4	3	2	2	2	2	2	2	2
Vietnam	23	39	33	39	43	48	52	59	63
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Americas	42	69	53	55	54	52	49	50	49
Argentina	7	9	10	9	9	11	11	11	10
Barbados	8	8	12	12	13	13	14	15	16
Bolivia	25	33	25	25	25	26	29	31	31
Brazil	19	18	14	13	13	13	12	11	10
Canada	158	139	104	101	94	86	83	86	81
Chile	54	45	102	120	97	66	53	69	74
Colombia	8	7	6	6	5	6	6	7	7
Cuba	39	9	10	11	10	10	12	13	14
Ecuador	26	42	41	41	42	43	42	47	48
Guatemala	14	30	35	43	37	37	38	41	38
Mexico	12	13	10	10	9	9	10	10	11
Peru	25	22	22	25	20	18	16	16	17
Suriname	26	21	21	21	20	20	21	22	23
Trinidad and Tobago	13	15	18	7	7	8	8	9	9
United States	9	9	7	8	9	8	8	6	5
Venezuela	71	293	309	341	389	542	848	1,440	1,297

^(*) Data source: Eni's calculations on Enerdata *Global Energy Market & CO₂ Data*, IEA (2022) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Consumption

Areas and Aggregates^(*)

(thousand barrels/day)

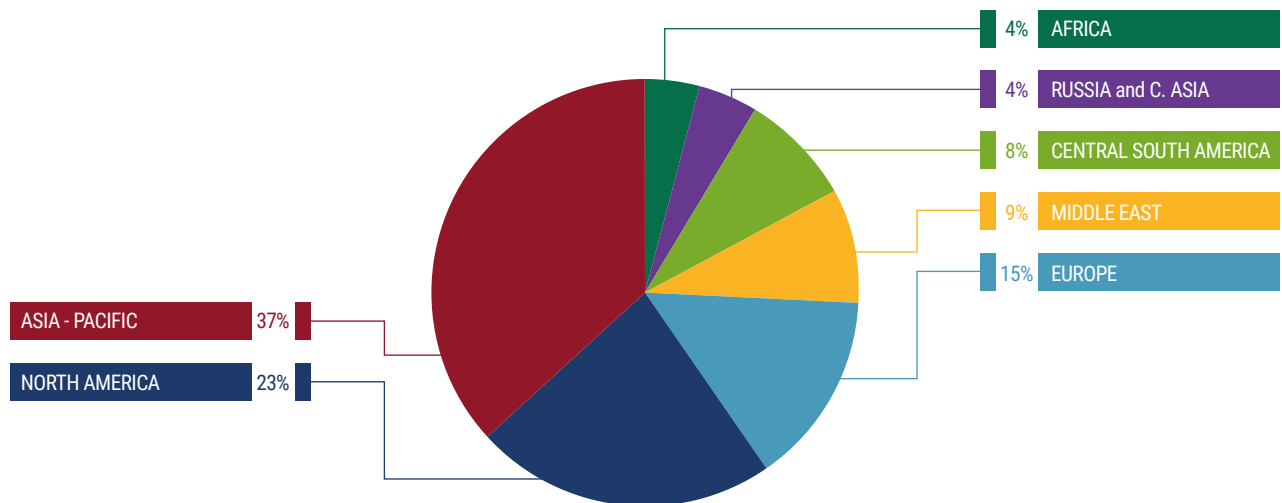
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	17,093	15,921	14,955	15,181	15,565	15,476	15,506	13,563	14,243	5.0%	-1.0%
Russia and Central Asia	3,310	3,424	4,213	4,086	4,259	4,269	4,311	4,108	4,394	7.0%	2.3%
Middle East	6,140	7,932	8,973	8,936	9,029	8,949	8,945	8,408	8,741	4.0%	0.9%
Africa	2,910	3,607	4,191	4,139	4,163	4,217	4,251	3,819	4,030	5.5%	1.0%
Asia - Pacific	24,298	27,540	32,207	32,978	34,194	34,890	35,600	33,858	35,855	5.9%	2.4%
Americas	30,807	30,218	31,123	31,132	31,268	31,664	31,825	28,163	30,262	7.5%	0.0%
- North America	23,484	21,755	22,127	22,292	22,505	23,115	23,212	20,651	22,273	7.9%	0.2%
- Central South America	7,323	8,463	8,996	8,840	8,763	8,549	8,613	7,512	7,989	6.3%	-0.5%
World	84,558	88,642	95,662	96,452	98,478	99,465	100,438	91,919	97,525	6.1%	0.9%
European Union 27	13,391	12,396	11,424	11,519	11,827	11,762	11,789	10,351	10,883	5.1%	-1.2%
MENA	7,498	9,624	10,798	10,698	10,754	10,671	10,643	9,918	10,370	4.6%	0.7%
OECD	50,777	47,313	46,830	47,273	47,795	48,079	48,150	42,450	45,104	6.3%	-0.4%
NON OECD	33,781	41,329	48,832	49,179	50,683	51,386	52,288	49,469	52,421	6.0%	2.2%
OPEC	6,607	8,510	9,768	9,616	9,551	9,383	9,329	8,692	9,101	4.7%	0.6%
NON OPEC	77,951	80,132	85,894	86,836	88,927	90,082	91,109	83,227	88,424	6.2%	0.9%

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* data. All rights reserved.

Consumption

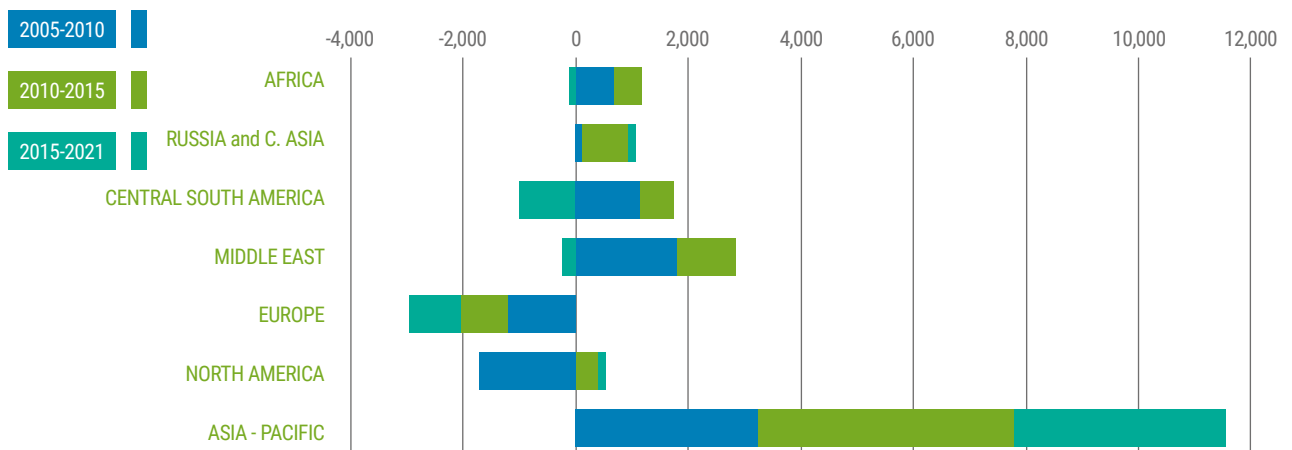
World Oil Consumption (2021)

97,525 thousand barrels/day



World Oil Consumption Growth (2005-2021)

12,967 thousand barrels/day



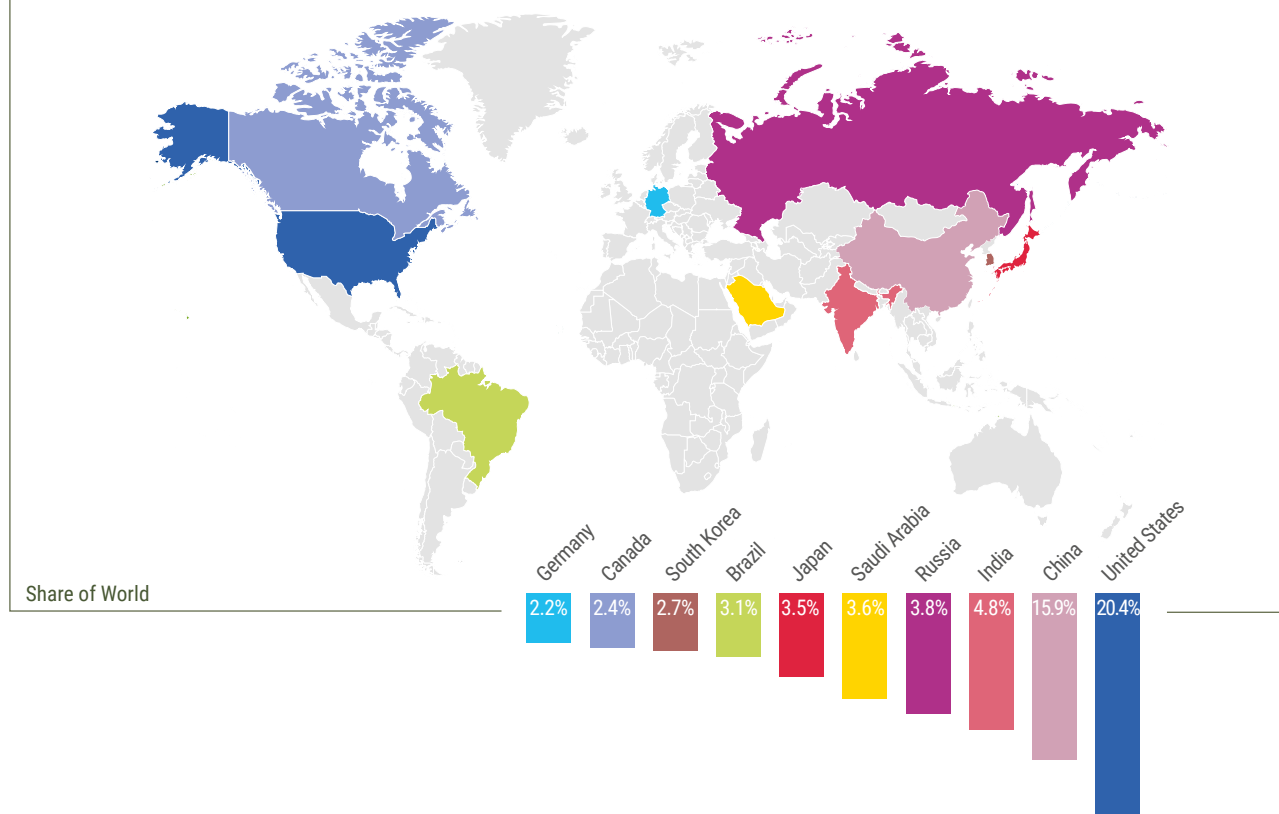
Consumption

The World Top 10 Consumers^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
United States	21,168	19,391	19,687	19,827	20,042	20,595	20,583	18,348	19,926	8.6%	0.2%
China	6,766	9,031	11,639	12,013	12,574	13,122	13,905	14,298	15,521	8.6%	5.0%
India	2,639	3,366	4,288	4,493	4,764	4,927	4,991	4,540	4,711	3.8%	3.1%
Russia	2,732	2,828	3,472	3,308	3,496	3,494	3,568	3,421	3,661	7.0%	2.4%
Saudi Arabia	1,941	3,121	3,836	3,818	3,701	3,558	3,589	3,471	3,498	0.8%	1.0%
Japan	5,292	4,400	4,167	4,035	3,945	3,850	3,739	3,326	3,415	2.7%	-2.3%
Brazil	2,173	2,774	3,191	3,004	3,043	2,976	3,078	2,928	3,068	4.8%	0.9%
South Korea	2,191	2,269	2,473	2,605	2,630	2,567	2,599	2,437	2,587	6.2%	1.2%
Canada	2,316	2,364	2,440	2,465	2,463	2,520	2,629	2,303	2,347	1.9%	-0.1%
Germany	2,624	2,467	2,368	2,383	2,450	2,326	2,346	2,149	2,136	-0.6%	-1.3%
The World Top 10	49,842	52,011	57,561	57,951	59,108	59,935	61,027	57,221	60,870	6.4%	1.4%
Rest of the World	34,716	36,631	38,101	38,501	39,370	39,530	39,411	34,698	36,655	5.6%	0.0%
World	84,558	88,642	95,662	96,452	98,478	99,465	100,438	91,919	97,525	6.1%	0.9%

The World Top 10 (2021)



^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

Consumption

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	17,093	15,921	14,955	15,181	15,565	15,476	15,506	13,563	14,243	5.0%	-1.0%
Albania	29	26	26	28	30	27	29	27	28	3.7%	0.7%
Austria	297	278	258	262	263	269	279	238	246	3.4%	-1.1%
Belarus	149	151	139	137	137	151	146	138	141	2.2%	-0.6%
Belgium	660	653	623	632	638	683	642	565	636	12.6%	-0.2%
Bosnia Herzegovina	23	34	31	35	35	35	34	32	32	0.0%	-0.5%
Bulgaria	99	84	95	96	98	100	104	95	99	4.2%	1.5%
Croatia	94	78	69	68	73	72	71	63	66	4.8%	-1.5%
Cyprus	57	57	48	52	53	53	53	47	49	4.3%	-1.4%
Czech Republic	213	202	196	180	214	217	219	193	212	9.8%	0.4%
Denmark	183	167	154	158	159	161	165	137	140	2.2%	-1.6%
Estonia	26	27	29	29	30	30	28	26	27	3.8%	0.0%
Finland	221	214	207	210	209	211	207	187	180	-3.7%	-1.6%
France	1,989	1,817	1,747	1,710	1,737	1,686	1,689	1,421	1,542	8.5%	-1.5%
Germany	2,624	2,467	2,368	2,383	2,450	2,326	2,346	2,149	2,136	-0.6%	-1.3%
Gibraltar	79	83	74	75	84	82	84	84	84	0.0%	0.1%
Greece	424	370	295	296	303	300	310	250	266	6.4%	-3.0%
Hungary	155	149	155	154	167	179	181	166	177	6.6%	1.6%
Iceland	17	15	17	19	21	23	20	15	14	-6.7%	-0.6%
Ireland	197	163	145	152	154	159	159	135	142	5.2%	-1.2%
Italy	1,781	1,544	1,274	1,237	1,244	1,272	1,255	1,050	1,176	12.0%	-2.4%
Kosovo	10	11	14	14	15	15	16	15	15	0.0%	2.9%
Latvia	36	37	37	38	38	35	40	35	37	5.7%	0.0%
Lithuania	59	56	57	62	64	68	68	64	67	4.7%	1.6%
Luxembourg	65	60	56	56	59	63	64	51	53	3.9%	-1.1%
Malta	31	47	43	45	51	52	54	49	51	4.1%	0.7%
Moldova	14	17	18	19	20	21	21	19	20	5.3%	1.5%
Montenegro	6	7	6	7	8	8	9	7	8	14.3%	1.2%
Netherlands	1,046	985	919	935	943	929	915	858	803	-6.4%	-1.8%
North Macedonia	18	18	20	22	21	21	22	21	21	0.0%	1.4%
Norway	222	229	227	216	219	227	229	226	243	7.5%	0.5%
Poland	471	568	541	582	658	680	698	663	703	6.0%	2.0%
Portugal	337	274	237	237	242	231	249	203	211	3.9%	-2.3%
Romania	224	176	194	204	217	214	228	227	238	4.8%	2.8%
Serbia	83	81	71	77	77	76	78	74	77	4.1%	-0.5%
Slovakia	78	84	79	82	90	92	86	80	85	6.3%	0.1%
Slovenia	54	55	49	52	54	57	55	45	47	4.4%	-1.4%
Spain	1,607	1,441	1,247	1,290	1,297	1,332	1,328	1,088	1,190	9.4%	-1.7%
Sweden	363	343	302	317	322	291	296	266	304	14.3%	-1.1%
Switzerland	267	261	227	228	225	222	220	185	185	0.0%	-3.1%
Turkey	659	675	881	942	991	958	987	923	982	6.4%	3.5%
Ukraine	307	293	220	244	236	243	244	231	236	2.2%	-1.9%
United Kingdom	1,819	1,624	1,560	1,599	1,619	1,605	1,578	1,215	1,274	4.9%	-2.2%

^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

Consumption

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	3,310	3,424	4,213	4,086	4,259	4,269	4,311	4,108	4,394	7.0%	2.3%
Russia	2,732	2,828	3,472	3,308	3,496	3,494	3,568	3,421	3,661	7.0%	2.4%
Armenia	9	9	7	7	8	8	10	9	9	0.0%	0.0%
Azerbaijan	104	74	96	96	102	103	110	97	101	4.1%	2.9%
Georgia	17	22	26	32	31	29	31	28	29	3.6%	2.5%
Kazakhstan	198	233	322	349	334	326	290	266	294	10.5%	2.1%
Kyrgyzstan	14	27	36	38	32	41	30	33	34	3.0%	2.1%
Tajikistan	6	11	22	22	21	24	27	26	28	7.7%	8.9%
Turkmenistan	117	126	151	149	150	151	152	138	144	4.3%	1.2%
Uzbekistan	113	94	81	85	85	93	93	90	94	4.4%	0.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Middle East	6,140	7,932	8,973	8,936	9,029	8,949	8,945	8,408	8,741	4.0%	0.9%
Bahrain	62	61	61	60	63	65	64	54	57	5.6%	-0.6%
Iran	1,723	1,848	2,002	1,845	1,895	1,975	1,929	1,875	1,953	4.2%	0.5%
Iraq	496	565	606	655	689	713	756	689	703	2.0%	2.0%
Israel	233	251	217	221	238	232	234	203	215	5.9%	-1.4%
Jordan	113	102	134	110	124	111	112	102	105	2.9%	0.3%
Kuwait	327	450	448	439	438	438	415	390	482	23.6%	0.6%
Lebanon	97	120	162	169	179	168	169	134	130	-3.0%	0.7%
Oman	75	126	185	194	191	233	214	196	237	20.9%	5.9%
Qatar	89	173	228	222	251	269	297	236	245	3.8%	3.2%
Saudi Arabia	1,941	3,121	3,836	3,818	3,701	3,558	3,589	3,471	3,498	0.8%	1.0%
Syria	324	307	126	138	153	144	131	128	129	0.8%	-7.6%
United Arab Emirates	521	660	895	1,003	1,049	985	969	872	929	6.5%	3.2%
Yemen	139	148	73	62	58	58	66	58	58	0.0%	-8.2%

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Consumption

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	2,910	3,607	4,191	4,139	4,163	4,217	4,251	3,819	4,030	5.5%	1.0%
Algeria	271	351	447	430	425	437	446	406	422	3.9%	1.7%
Angola	42	99	154	135	119	117	125	115	114	-0.9%	1.3%
Benin	19	35	36	45	45	51	50	48	50	4.2%	3.3%
Cameroon	22	34	39	39	38	38	38	35	36	2.9%	0.5%
Congo	6	12	15	13	12	12	12	11	11	0.0%	-0.8%
Côte d'Ivoire	24	24	45	50	50	52	56	53	55	3.8%	7.8%
Dem. Rep. Congo	12	16	21	16	18	17	18	15	15	0.0%	-0.6%
Egypt	616	763	858	829	773	758	723	635	682	7.4%	-1.0%
Ethiopia	33	44	69	81	87	99	106	98	98	0.0%	7.6%
Gabon	15	19	22	23	14	14	14	13	13	0.0%	-3.4%
Ghana	48	71	85	94	95	103	107	101	104	3.0%	3.5%
Kenya	62	102	121	127	136	124	125	112	116	3.6%	1.2%
Libya	265	304	218	199	205	211	207	175	222	26.9%	-2.8%
Morocco	192	257	274	277	293	288	297	271	280	3.3%	0.8%
Mozambique	12	16	26	28	28	28	30	28	28	0.0%	5.2%
Nigeria	301	293	415	427	431	434	465	453	502	10.8%	5.0%
Senegal	36	38	47	48	46	51	53	51	52	2.0%	2.9%
South Africa	496	587	640	607	643	659	647	555	576	3.8%	-0.2%
South Sudan	0	0	14	13	12	12	13	11	12	9.1%	
Sudan	72	114	117	133	134	133	131	122	122	0.0%	0.6%
Tanzania	14	17	28	27	29	28	25	23	23	0.0%	2.8%
Tunisia	91	88	102	98	104	103	103	91	92	1.1%	0.4%
Zambia	30	33	59	55	54	54	53	51	52	2.0%	4.2%
Zimbabwe	14	14	27	24	25	31	28	25	25	0.0%	5.4%
Others Africa	217	276	312	321	347	363	379	321	328	2.2%	1.6%

^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

Consumption

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	24,298	27,540	32,207	32,978	34,194	34,890	35,600	33,858	35,855	5.9%	2.4%
Australia	962	1,045	1,123	1,117	1,168	1,185	1,178	1,022	1,044	2.2%	0.0%
Bangladesh	80	80	111	111	124	145	133	127	133	4.7%	4.7%
Brunei	14	16	17	15	15	17	20	43	60	39.5%	12.8%
China	6,766	9,031	11,639	12,013	12,574	13,122	13,905	14,298	15,521	8.6%	5.0%
Hong Kong	283	415	371	384	433	438	412	273	249	-8.8%	-4.5%
India	2,639	3,366	4,288	4,493	4,764	4,927	4,991	4,540	4,711	3.8%	3.1%
Indonesia	1,317	1,406	1,683	1,594	1,703	1,858	1,835	1,579	1,717	8.7%	1.8%
Japan	5,292	4,400	4,167	4,035	3,945	3,850	3,739	3,326	3,415	2.7%	-2.3%
Malaysia	509	586	688	708	731	712	740	632	681	7.8%	1.4%
Myanmar	42	24	74	89	141	143	148	143	120	-16.1%	15.8%
Nepal	16	22	27	44	54	60	54	50	51	2.0%	7.9%
New Zealand	153	153	161	168	177	180	185	152	147	-3.3%	-0.4%
North Korea	18	17	18	20	18	18	19	18	18	0.0%	0.5%
Pakistan	335	400	526	577	575	462	466	437	500	14.4%	2.0%
Philippines	312	314	401	430	461	467	478	386	422	9.3%	2.7%
Singapore	861	1,162	1,294	1,349	1,408	1,404	1,370	1,293	1,309	1.2%	1.1%
South Korea	2,191	2,269	2,473	2,605	2,630	2,567	2,599	2,437	2,587	6.2%	1.2%
Sri Lanka	96	88	110	126	136	127	137	123	127	3.3%	3.4%
Taiwan	1,011	1,047	1,046	1,051	1,037	1,041	987	949	993	4.6%	-0.5%
Thailand	1,008	1,118	1,362	1,392	1,418	1,457	1,462	1,350	1,354	0.3%	1.8%
Vietnam	263	395	415	449	467	480	495	456	469	2.9%	1.6%
Others Asia - Pacific	130	186	213	208	215	230	247	224	227	1.3%	1.8%

^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

Consumption

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	30,807	30,218	31,123	31,132	31,268	31,664	31,825	28,163	30,262	7.5%	0.0%
Argentina	481	656	682	677	666	648	625	535	611	14.2%	-0.6%
Bolivia	46	60	81	83	88	90	88	78	81	3.8%	2.8%
Brazil	2,173	2,774	3,191	3,004	3,043	2,976	3,078	2,928	3,068	4.8%	0.9%
Canada	2,316	2,364	2,440	2,465	2,463	2,520	2,629	2,303	2,347	1.9%	-0.1%
Chile	272	322	331	352	357	363	362	324	351	8.3%	0.8%
Colombia	251	266	338	372	346	349	369	320	353	10.3%	2.6%
Costa Rica	44	50	53	57	59	60	60	54	56	3.7%	1.0%
Cuba	178	182	184	168	168	168	162	164	163	-0.6%	-1.0%
Curacao	79	73	66	60	54	50	46	42	45	7.1%	-4.3%
Dominican Republic	122	123	133	142	133	145	154	138	149	8.0%	1.8%
Ecuador	183	235	268	256	253	273	268	241	247	2.5%	0.5%
El Salvador	45	45	50	50	46	51	59	52	56	7.7%	2.0%
Guatemala	72	70	89	92	93	100	109	103	108	4.9%	4.0%
Haiti	11	16	22	23	23	23	23	21	20	-4.8%	2.0%
Honduras	41	46	60	57	54	57	57	51	53	3.9%	1.3%
Jamaica	70	51	52	56	53	60	60	52	55	5.8%	0.7%
Mexico	2,069	2,094	2,006	2,053	2,019	1,932	1,959	1,581	1,641	3.8%	-2.2%
Nicaragua	28	29	34	36	36	33	34	32	34	6.3%	1.5%
Panama	91	122	144	151	164	139	150	110	132	20.0%	0.7%
Paraguay	25	36	47	53	60	63	62	59	61	3.4%	4.9%
Peru	156	200	236	248	262	266	274	220	265	20.5%	2.6%
Trinidad and Tobago	44	43	46	47	44	37	31	25	26	4.0%	-4.5%
United States	21,168	19,391	19,687	19,827	20,042	20,595	20,583	18,348	19,926	8.6%	0.2%
Uruguay	42	51	52	51	49	52	52	47	48	2.1%	-0.5%
Venezuela	699	788	710	629	573	489	402	222	252	13.5%	-9.8%
Others Americas	101	131	121	123	120	125	129	113	114	0.9%	-1.3%

^(*) Data source: IEA (2022) *Monthly Oil Data Services*. All rights reserved.

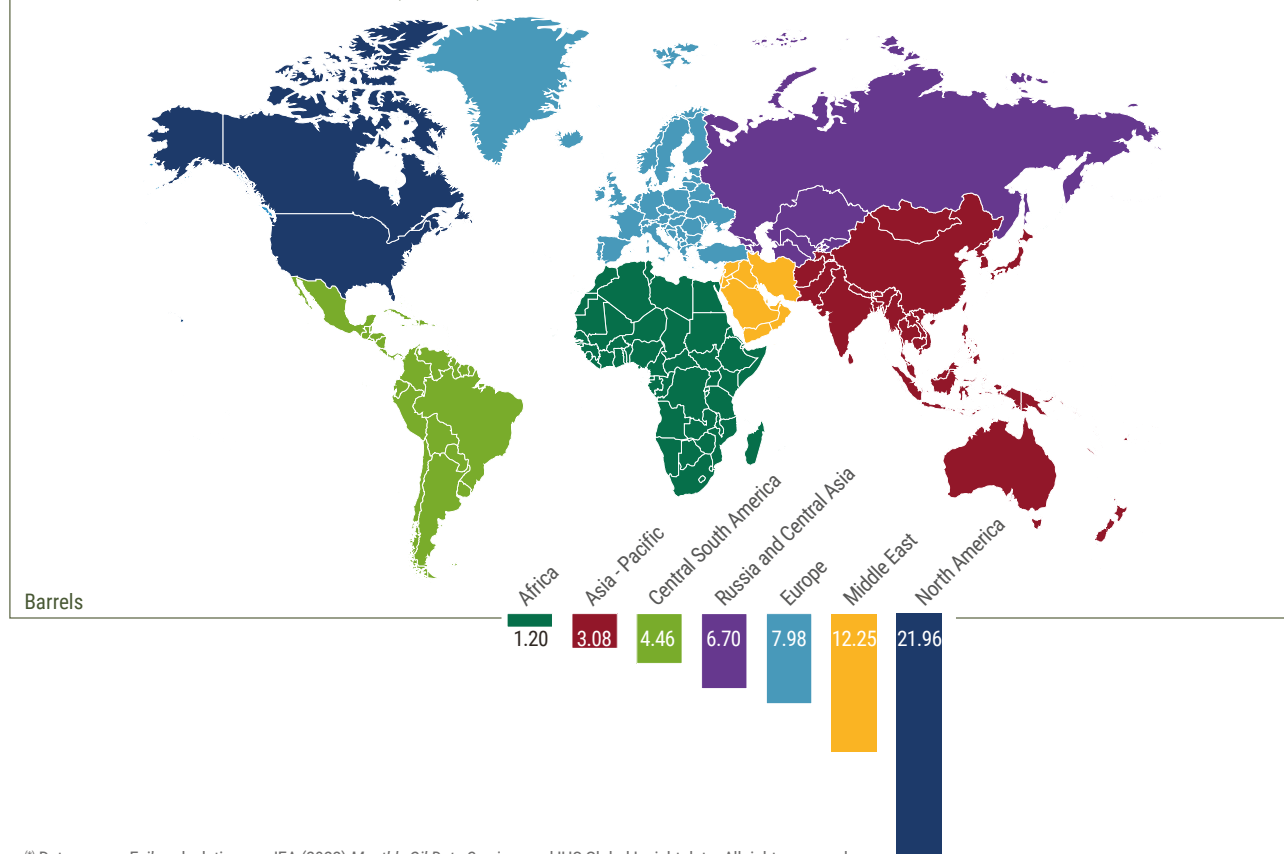
Per Capita Consumption

Areas and Aggregates^(*)

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	10.21	9.30	8.55	8.65	8.83	8.75	8.73	7.62	7.98
Russia and Central Asia	5.19	5.36	6.50	6.28	6.54	6.54	6.59	6.27	6.70
Middle East	11.98	13.65	13.90	13.61	13.52	13.18	12.95	11.99	12.25
Africa	1.28	1.41	1.45	1.40	1.37	1.35	1.33	1.17	1.20
Asia - Pacific	2.43	2.61	2.91	2.95	3.03	3.07	3.11	2.93	3.08
Americas	12.79	11.88	11.65	11.54	11.49	11.54	11.50	10.10	10.79
- North America	26.08	23.11	22.57	22.55	22.60	23.06	23.02	20.40	21.96
- Central South America	4.85	5.28	5.32	5.17	5.08	4.91	4.90	4.23	4.46
World	4.74	4.68	4.76	4.75	4.79	4.79	4.78	4.33	4.55
European Union 27	11.20	10.25	9.38	9.45	9.69	9.62	9.63	8.45	8.89
MENA	8.00	9.24	9.38	9.13	9.02	8.80	8.62	7.91	8.13
OECD	14.93	13.42	12.87	12.91	12.97	12.97	12.93	11.35	12.02
NON OECD	2.34	2.68	2.97	2.95	3.01	3.01	3.03	2.83	2.97
OPEC	6.76	7.73	7.89	7.60	7.40	7.13	6.95	6.34	6.51
NON OPEC	4.63	4.49	4.56	4.56	4.62	4.63	4.64	4.19	4.41

Per Capita Consumption (2021)



^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

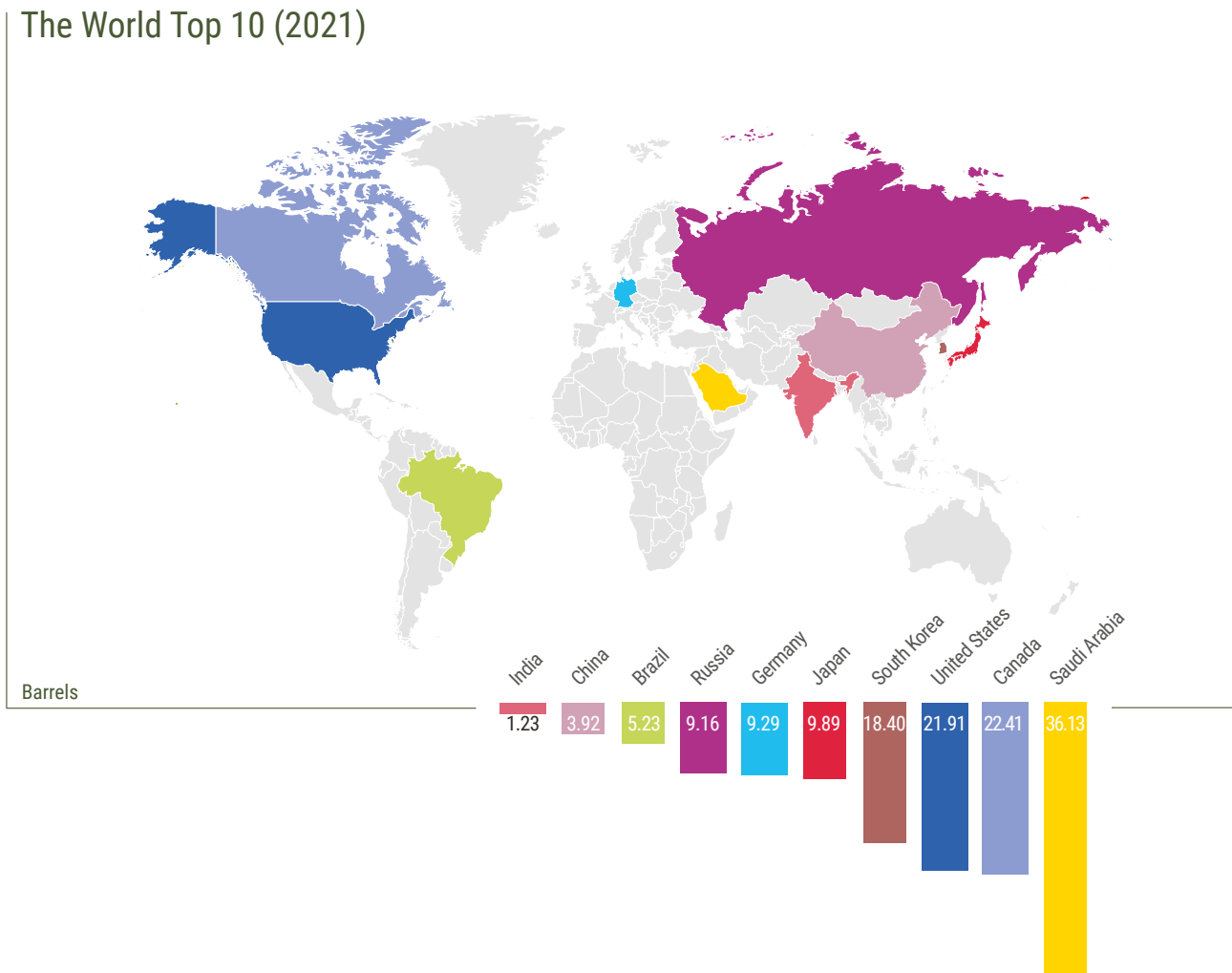
Per Capita Consumption

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

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Saudi Arabia	29.75	41.54	44.14	42.95	40.81	38.53	38.23	36.39	36.13
Canada	26.25	25.41	24.96	24.96	24.63	24.86	25.56	22.12	22.41
United States	26.06	22.86	22.30	22.29	22.37	22.86	22.74	20.20	21.91
South Korea	16.42	16.72	17.76	18.65	18.79	18.31	18.52	17.35	18.40
Japan	15.05	12.49	11.88	11.53	11.29	11.05	10.76	9.60	9.89
Germany	11.74	11.14	10.57	10.58	10.82	10.21	10.25	9.36	9.29
Russia	6.94	7.19	8.74	8.31	8.77	8.75	8.93	8.56	9.16
Brazil	4.26	5.17	5.70	5.32	5.34	5.19	5.32	5.03	5.23
China	1.86	2.41	3.02	3.10	3.23	3.35	3.54	3.63	3.92
India	0.84	1.00	1.19	1.24	1.30	1.33	1.33	1.20	1.23

The World Top 10 (2021)



^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Per Capita Consumption

Countries^(*)

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	10.21	9.30	8.55	8.65	8.83	8.75	8.73	7.62	7.98
Albania	3.43	3.25	3.29	3.55	3.81	3.43	3.70	3.46	3.60
Austria	13.13	12.07	10.85	10.93	10.88	11.04	11.37	9.65	9.93
Belarus	5.69	5.85	5.37	5.29	5.29	5.83	5.64	5.33	5.45
Belgium	22.84	21.79	20.14	20.32	20.39	21.71	20.31	17.79	19.96
Bosnia Herzegovina	2.23	3.35	3.30	3.77	3.81	3.84	3.76	3.56	3.58
Bulgaria	4.70	4.13	4.82	4.90	5.04	5.18	5.42	4.99	5.24
Croatia	7.84	6.58	5.95	5.90	6.37	6.32	6.27	5.60	5.90
Cyprus	28.38	25.40	20.68	22.37	22.63	22.38	22.09	19.36	19.96
Czech Republic	7.58	7.00	6.75	6.19	7.34	7.43	7.48	6.58	7.22
Denmark	12.32	10.97	9.88	10.10	10.12	10.22	10.43	8.63	8.79
Estonia	7.00	7.40	8.05	8.04	8.30	8.28	7.71	7.15	7.44
Finland	15.34	14.56	13.78	13.94	13.84	13.95	13.66	12.32	11.84
France	11.88	10.55	9.89	9.65	9.78	9.47	9.47	7.95	8.60
Germany	11.74	11.14	10.57	10.58	10.82	10.21	10.25	9.36	9.29
Greece	13.79	12.40	10.10	10.18	10.46	10.41	10.80	8.75	9.36
Hungary	5.61	5.48	5.79	5.76	6.26	6.73	6.82	6.27	6.71
Iceland	21.04	17.09	18.79	20.88	22.92	24.93	21.53	16.04	14.88
Ireland	17.36	13.06	11.38	11.81	11.83	12.04	11.89	9.98	10.40
Italy	11.15	9.50	7.68	7.44	7.48	7.66	7.57	6.34	7.11
Kosovo	2.14	2.26	2.84	2.88	3.07	3.06	3.25	3.04	3.03
Latvia	5.83	6.37	6.76	7.03	7.11	6.62	7.66	6.77	7.23
Lithuania	6.44	6.54	7.10	7.83	8.21	8.86	8.99	8.58	9.09
Luxembourg	51.82	43.12	36.07	35.29	36.38	38.06	37.94	29.74	30.47
Malta	28.10	41.43	35.70	36.47	40.44	39.90	40.50	35.93	36.59
Moldova	1.76	2.16	2.31	2.46	2.63	2.81	2.85	2.62	2.81
Montenegro	3.57	4.12	3.52	4.11	4.69	4.69	5.28	4.11	4.69
Netherlands	23.33	21.55	19.80	20.10	20.22	19.88	19.53	18.28	17.07
North Macedonia	3.23	3.17	3.51	3.86	3.68	3.68	3.85	3.68	3.68
Norway	17.49	17.11	15.93	15.01	15.09	15.52	15.54	15.22	16.23
Poland	4.48	5.41	5.19	5.59	6.33	6.55	6.72	6.39	6.79
Portugal	11.71	9.44	8.34	8.38	8.59	8.22	8.89	7.27	7.57
Romania	3.82	3.14	3.55	3.76	4.03	4.00	4.30	4.31	4.54
Serbia	4.07	4.05	3.65	3.98	4.00	3.97	4.10	3.91	4.09
Slovakia	5.27	5.67	5.30	5.50	6.03	6.16	5.75	5.35	5.68
Slovenia	9.88	9.82	8.64	9.15	9.49	10.01	9.66	7.90	8.25
Spain	13.33	11.21	9.75	10.10	10.15	10.41	10.37	8.49	9.29
Sweden	14.66	13.33	11.29	11.76	11.87	10.65	10.76	9.61	10.92
Switzerland	13.19	12.20	9.99	9.93	9.71	9.50	9.35	7.80	7.75
Turkey	3.54	3.41	4.09	4.31	4.46	4.25	4.32	3.99	4.21
Ukraine	2.39	2.34	1.79	1.99	1.94	2.00	2.02	1.93	1.98
United Kingdom	11.01	9.34	8.65	8.80	8.86	8.73	8.53	6.53	6.82

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Per Capita Consumption

Countries^(*)

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia and Central Asia	5.19	5.36	6.50	6.28	6.54	6.54	6.59	6.27	6.70
Russia	6.94	7.19	8.74	8.31	8.77	8.75	8.93	8.56	9.16
Armenia	1.10	1.14	0.87	0.87	0.99	0.99	1.23	1.11	1.11
Azerbaijan	4.45	2.99	3.64	3.60	3.78	3.78	4.00	3.49	3.61
Georgia	1.47	1.96	2.36	2.91	2.82	2.64	2.83	2.56	2.66
Kazakhstan	4.69	5.23	6.69	7.14	6.74	6.50	5.71	5.17	5.65
Kyrgyzstan	1.01	1.82	2.21	2.28	1.89	2.37	1.71	1.85	1.87
Tajikistan	0.32	0.53	0.95	0.93	0.86	0.96	1.06	1.00	1.05
Turkmenistan	8.98	9.04	9.90	9.60	9.51	9.42	9.34	8.35	8.59
Uzbekistan	1.56	1.20	0.96	0.99	0.97	1.05	1.03	0.98	1.01
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Middle East	11.98	13.65	13.90	13.61	13.52	13.18	12.95	11.99	12.25
Bahrain	25.45	17.94	16.23	15.36	15.39	15.12	14.23	11.58	11.90
Iran	9.01	9.14	9.31	8.46	8.57	8.81	8.49	8.15	8.38
Iraq	6.72	6.93	6.22	6.53	6.70	6.77	7.02	6.25	6.23
Israel	13.02	12.47	9.93	9.95	10.54	10.10	10.03	8.56	8.93
Jordan	7.16	5.56	5.12	4.10	4.50	3.93	3.87	3.45	3.47
Kuwait	53.25	56.11	43.22	40.95	39.76	38.95	36.12	34.46	42.82
Lebanon	7.53	8.84	9.05	9.19	9.58	8.94	9.00	7.17	7.01
Oman	10.90	15.12	15.82	15.81	14.94	17.61	15.70	14.79	17.49
Qatar	37.54	34.02	32.44	30.53	33.62	35.30	38.28	30.93	32.31
Saudi Arabia	29.75	41.54	44.14	42.95	40.81	38.53	38.23	36.39	36.13
Syria	6.44	5.25	2.56	2.88	3.27	3.10	2.80	2.67	2.58
United Arab Emirates	41.45	28.18	35.27	39.11	40.36	37.33	36.20	32.18	33.94
Yemen	2.52	2.33	1.01	0.83	0.76	0.74	0.83	0.71	0.69

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Per Capita Consumption

Countries^(*)

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Africa	1.28	1.41	1.45	1.40	1.37	1.35	1.33	1.17	1.20
Algeria	2.98	3.56	4.11	3.87	3.75	3.78	3.78	3.38	3.45
Angola	0.79	1.55	2.02	1.71	1.46	1.39	1.43	1.28	1.23
Benin	0.87	1.39	1.24	1.51	1.47	1.62	1.55	1.45	1.47
Cameroon	0.45	0.61	0.61	0.59	0.56	0.55	0.54	0.48	0.48
Congo	0.60	1.02	1.13	0.95	0.86	0.84	0.81	0.73	0.71
Côte d'Ivoire	0.48	0.43	0.71	0.77	0.75	0.76	0.79	0.73	0.74
Dem. Rep. Congo	0.08	0.09	0.10	0.07	0.08	0.07	0.08	0.06	0.06
Egypt	2.98	3.37	3.39	3.20	2.93	2.81	2.63	2.26	2.39
Ethiopia	0.16	0.18	0.25	0.29	0.31	0.34	0.36	0.32	0.31
Gabon	3.97	4.46	4.59	4.69	2.79	2.73	2.67	2.43	2.38
Ghana	0.80	1.05	1.11	1.20	1.19	1.26	1.28	1.19	1.20
Kenya	0.62	0.89	0.92	0.95	0.99	0.88	0.87	0.76	0.77
Libya	16.68	17.90	12.40	11.19	11.37	11.53	11.15	9.30	11.64
Morocco	2.30	2.90	2.89	2.88	3.01	2.92	2.97	2.68	2.74
Mozambique	0.21	0.25	0.35	0.37	0.36	0.35	0.36	0.33	0.32
Nigeria	0.79	0.67	0.84	0.84	0.82	0.81	0.84	0.80	0.87
Senegal	1.18	1.09	1.18	1.17	1.09	1.17	1.19	1.11	1.10
South Africa	3.78	4.18	4.22	3.94	4.12	4.16	4.03	3.42	3.50
South Sudan			0.48	0.44	0.40	0.40	0.43	0.36	0.38
Sudan	0.68	0.96	1.10	1.23	1.21	1.17	1.13	1.03	1.01
Tanzania	0.86	0.72	0.72	0.67	0.69	0.67	0.65	0.56	0.55
Tunisia	3.29	3.02	3.33	3.16	3.32	3.25	3.21	2.81	2.81
Zambia	0.43	0.46	0.64	0.60	0.63	0.59	0.51	0.46	0.44
Zimbabwe	0.42	0.40	0.71	0.62	0.64	0.78	0.70	0.61	0.60

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Per Capita Consumption

Countries^(*)

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Asia - Pacific	2.43	2.61	2.91	2.95	3.03	3.07	3.11	2.93	3.08
Australia	17.40	17.22	17.13	16.80	17.34	17.37	17.06	14.63	14.78
Bangladesh	0.21	0.20	0.26	0.26	0.28	0.33	0.30	0.28	0.29
Brunei	14.00	15.03	14.95	13.04	12.90	14.47	16.85	35.88	49.60
China	1.86	2.41	3.02	3.10	3.23	3.35	3.54	3.63	3.92
Hong Kong	15.26	21.74	18.84	19.35	21.63	21.69	20.22	13.29	12.03
India	0.84	1.00	1.19	1.24	1.30	1.33	1.33	1.20	1.23
Indonesia	2.12	2.12	2.38	2.22	2.35	2.53	2.47	2.11	2.27
Japan	15.05	12.49	11.88	11.53	11.29	11.05	10.76	9.60	9.89
Malaysia	7.23	7.58	8.30	8.42	8.58	8.24	8.45	7.13	7.58
Myanmar	0.31	0.17	0.51	0.61	0.96	0.97	1.00	0.96	0.80
Nepal	0.23	0.30	0.36	0.59	0.71	0.78	0.69	0.63	0.63
New Zealand	13.50	12.78	12.73	13.16	13.74	13.85	14.12	11.51	11.04
North Korea	0.27	0.25	0.26	0.29	0.26	0.26	0.27	0.25	0.25
Pakistan	0.76	0.81	0.96	1.03	1.01	0.79	0.79	0.72	0.81
Philippines	1.32	1.22	1.43	1.51	1.60	1.60	1.61	1.29	1.39
Singapore	73.67	82.66	84.46	87.09	90.03	89.01	86.15	80.67	81.03
South Korea	16.42	16.72	17.76	18.65	18.79	18.31	18.52	17.35	18.40
Sri Lanka	1.79	1.59	1.92	2.19	2.35	2.18	2.35	2.10	2.16
Taiwan	16.33	16.54	16.26	16.28	16.02	16.04	15.16	14.54	15.18
Thailand	5.62	6.07	7.23	7.37	7.48	7.66	7.66	7.06	7.07
Vietnam	1.15	1.64	1.63	1.75	1.80	1.83	1.87	1.71	1.74

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Per Capita Consumption

Countries^(*)

(barrels)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Americas	12.79	11.88	11.65	11.54	11.49	11.54	11.50	10.10	10.79
Argentina	4.51	5.85	5.78	5.68	5.53	5.33	5.09	4.32	4.89
Bolivia	1.82	2.18	2.72	2.75	2.87	2.89	2.79	2.44	2.50
Brazil	4.26	5.17	5.70	5.32	5.34	5.19	5.32	5.03	5.23
Canada	26.25	25.41	24.96	24.96	24.63	24.86	25.56	22.12	22.41
Chile	6.13	6.89	6.72	7.06	7.05	7.07	6.97	6.19	6.67
Colombia	2.15	2.15	2.60	2.82	2.58	2.57	2.68	2.30	2.51
Costa Rica	3.75	3.99	3.99	4.25	4.35	4.38	4.34	3.87	3.98
Cuba	5.77	5.92	5.93	5.41	5.41	5.41	5.22	5.28	5.26
Curacao	222.85	180.51	152.46	137.42	122.77	112.95	103.29	93.76	99.87
Dominican Republic	4.89	4.63	4.72	4.98	4.62	4.98	5.23	4.64	4.96
Ecuador	4.83	5.71	6.03	5.67	5.50	5.83	5.63	4.99	5.04
El Salvador	2.71	2.66	2.89	2.87	2.63	2.90	3.34	2.93	3.14
Guatemala	2.01	1.75	2.00	2.02	2.01	2.12	2.26	2.10	2.16
Haiti	0.44	0.59	0.75	0.77	0.76	0.75	0.75	0.67	0.63
Honduras	2.01	2.02	2.40	2.24	2.09	2.17	2.13	1.88	1.92
Jamaica	9.32	6.62	6.57	7.03	6.62	7.46	7.43	6.41	6.75
Mexico	7.12	6.70	6.01	6.08	5.91	5.59	5.60	4.48	4.60
Nicaragua	1.88	1.82	1.99	2.08	2.06	1.86	1.90	1.76	1.85
Panama	9.97	12.22	13.24	13.65	14.58	12.15	12.89	9.31	11.00
Paraguay	1.57	2.10	2.56	2.85	3.19	3.31	3.21	3.02	3.08
Peru	2.04	2.51	2.83	2.93	3.04	3.04	3.08	2.44	2.90
Trinidad and Tobago	12.39	11.82	12.25	12.45	11.60	9.72	8.11	6.52	6.76
United States	26.06	22.86	22.30	22.29	22.37	22.86	22.74	20.20	21.91
Uruguay	4.61	5.54	5.56	5.44	5.20	5.50	5.48	4.94	5.03
Venezuela	9.65	10.11	8.61	7.69	7.11	6.18	5.15	2.85	3.20

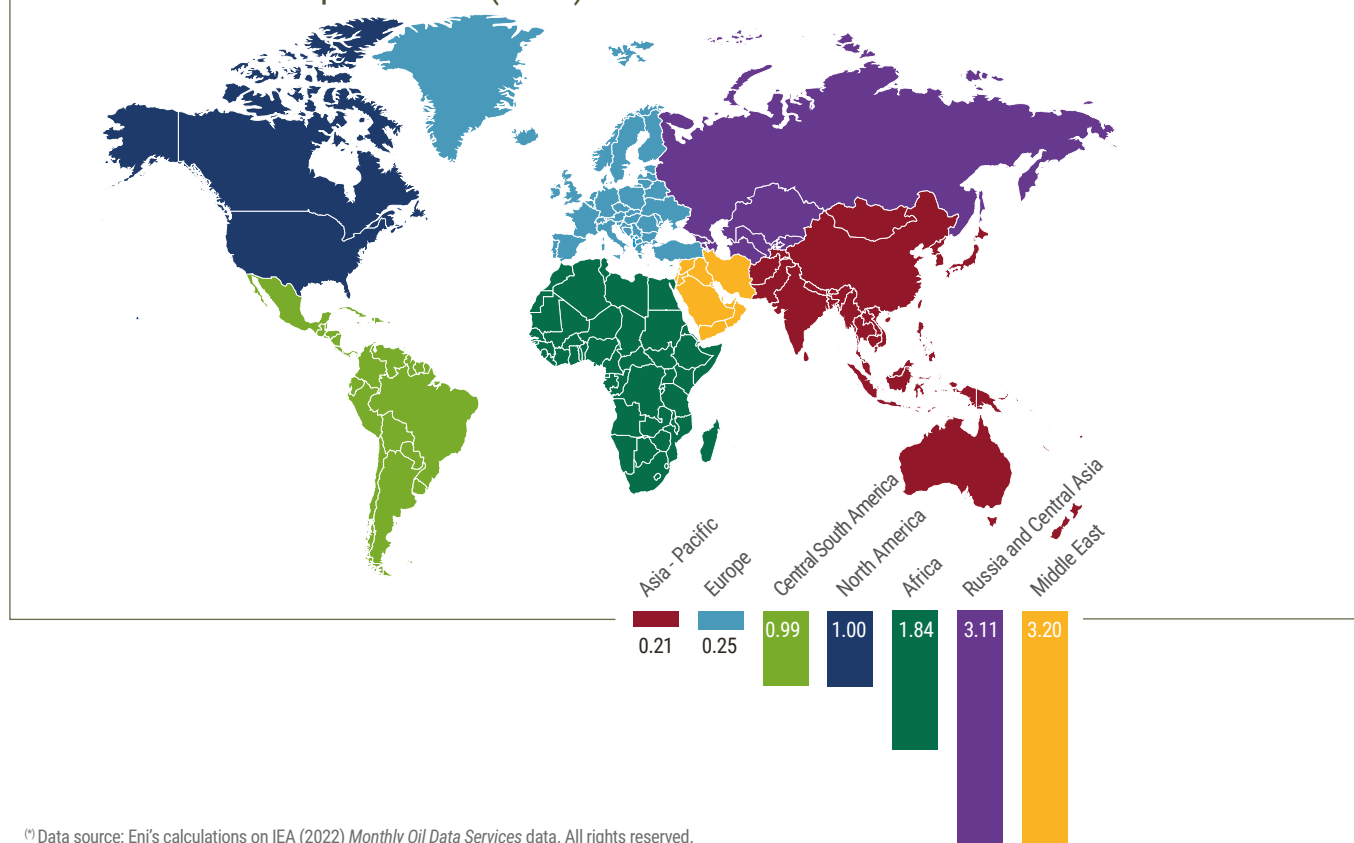
^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* and IHS Global Insight data. All rights reserved.

Production/Consumption Ratio

Areas and Aggregates^(*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	0.34	0.28	0.25	0.25	0.24	0.24	0.23	0.28	0.25
Russia and Central Asia	3.53	3.92	3.31	3.46	3.34	3.39	3.38	3.26	3.11
Middle East	4.16	3.20	3.31	3.52	3.43	3.52	3.36	3.28	3.20
Africa	3.40	2.84	1.99	1.88	1.97	1.97	1.99	1.84	1.84
Asia - Pacific	0.33	0.30	0.26	0.24	0.23	0.22	0.22	0.22	0.21
Americas	0.68	0.71	0.90	0.87	0.89	0.94	0.98	1.06	1.00
- North America	0.43	0.52	0.79	0.77	0.81	0.90	0.98	1.06	1.00
- Central South America	1.48	1.22	1.16	1.13	1.08	1.02	0.96	1.04	0.99
World	0.97	0.94	0.96	0.96	0.94	0.96	0.95	0.97	0.93
European Union 27	0.07	0.06	0.05	0.05	0.05	0.05	0.04	0.05	0.04
MENA	3.99	3.07	3.01	3.19	3.17	3.25	3.13	3.02	3.00
OECD	0.41	0.41	0.53	0.52	0.53	0.58	0.62	0.68	0.65
NON OECD	1.81	1.54	1.37	1.38	1.33	1.31	1.26	1.22	1.17
OPEC	5.14	3.91	3.69	3.86	3.86	3.92	3.75	3.54	3.47
NON OPEC	0.62	0.62	0.65	0.63	0.63	0.65	0.66	0.70	0.66

Production/Consumption Ratio (2021)



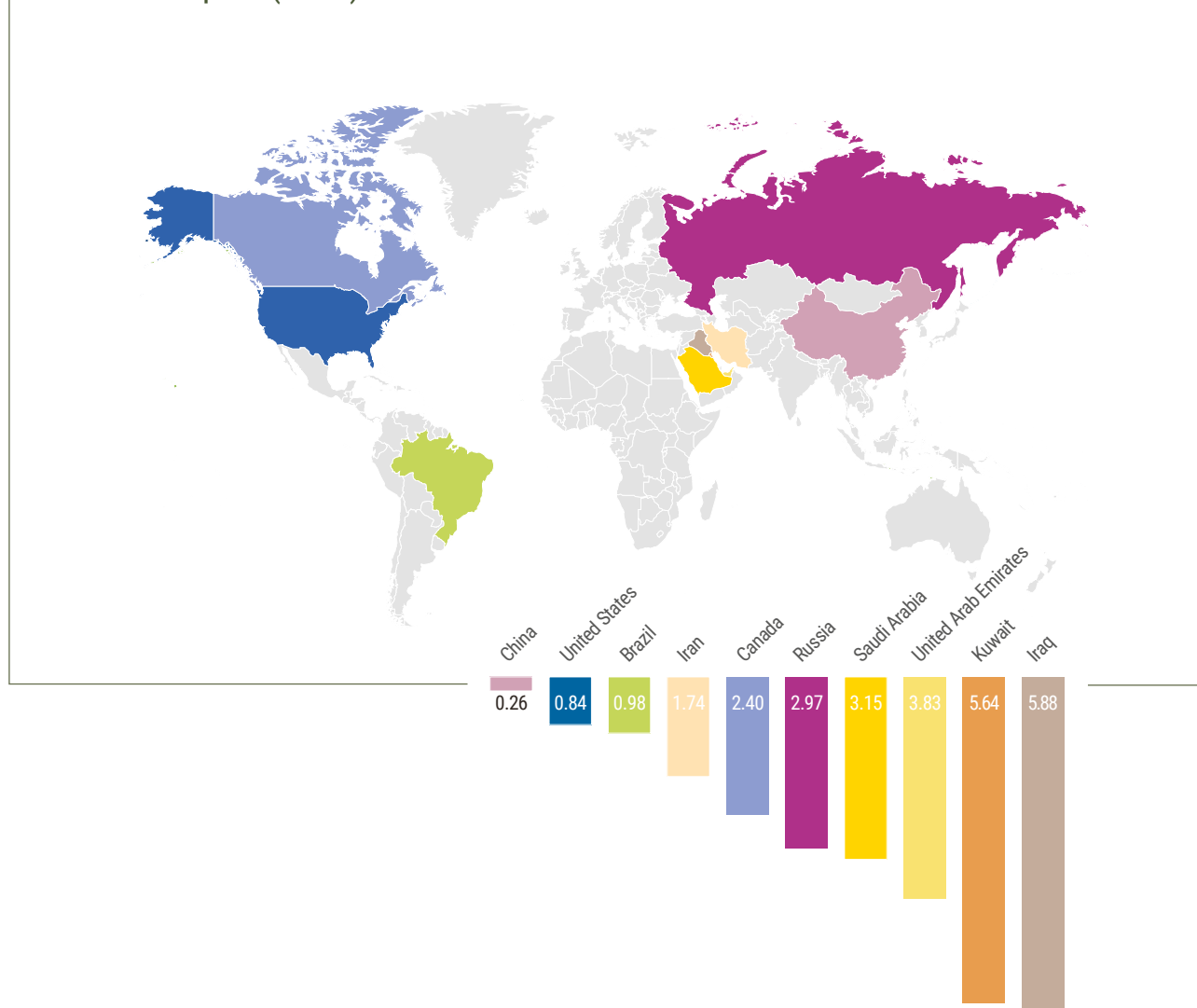
^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* data. All rights reserved.

Production/Consumption Ratio

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

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Iraq	3.70	4.30	6.73	6.88	6.62	6.54	6.36	6.02	5.88
Kuwait	7.79	5.55	6.91	7.27	6.88	6.96	7.20	6.97	5.64
United Arab Emirates	5.75	4.29	4.20	3.84	3.56	3.86	4.14	4.24	3.83
Saudi Arabia	5.63	3.19	3.14	3.23	3.21	3.47	3.32	3.20	3.15
Russia	3.53	3.67	3.19	3.42	3.24	3.29	3.25	3.10	2.97
Canada	1.35	1.46	1.86	1.87	2.03	2.15	2.13	2.32	2.40
Iran	2.44	2.28	1.78	2.39	2.49	2.30	1.71	1.56	1.74
Brazil	0.79	0.78	0.80	0.87	0.91	0.91	0.94	1.04	0.98
United States	0.33	0.40	0.66	0.63	0.66	0.75	0.84	0.90	0.84
China	0.53	0.45	0.37	0.33	0.31	0.29	0.28	0.28	0.26

The World Top 10 (2021)



^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* data. All rights reserved.

Production/Consumption Ratio

Countries^(*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	0.34	0.28	0.25	0.25	0.24	0.24	0.23	0.28	0.25
Albania	0.24	0.50	0.88	0.68	0.57	0.59	0.62	0.64	0.57
Austria	0.06	0.08	0.07	0.06	0.05	0.05	0.04	0.05	0.04
Belarus	0.24	0.23	0.24	0.24	0.23	0.22	0.23	0.25	0.24
Bulgaria	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Croatia	0.21	0.23	0.20	0.22	0.20	0.21	0.20	0.20	0.19
Czech Republic	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.03	0.03
Denmark	2.12	1.53	1.02	0.89	0.87	0.72	0.62	0.55	0.50
Estonia	0.18	0.38	0.55	0.49	0.61	0.72	0.81	0.88	0.81
France	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.03
Germany	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03
Greece	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00
Hungary	0.21	0.17	0.12	0.14	0.13	0.13	0.13	0.12	0.13
Italy	0.07	0.06	0.10	0.08	0.08	0.09	0.07	0.11	0.09
Netherlands	0.04	0.03	0.04	0.03	0.03	0.02	0.02	0.02	0.02
Norway	13.34	9.34	8.58	9.23	8.99	8.15	7.60	8.88	8.40
Poland	0.05	0.04	0.05	0.04	0.04	0.05	0.04	0.05	0.04
Romania	0.50	0.50	0.42	0.38	0.34	0.34	0.32	0.31	0.28
Serbia	0.16	0.21	0.28	0.23	0.23	0.22	0.22	0.22	0.20
Slovakia	0.05	0.04	0.06	0.05	0.07	0.03	0.03	0.04	0.04
Spain	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turkey	0.07	0.07	0.05	0.05	0.05	0.06	0.06	0.07	0.07
Ukraine	0.31	0.27	0.25	0.21	0.21	0.21	0.23	0.23	0.23
United Kingdom	1.01	0.84	0.62	0.64	0.62	0.70	0.73	0.89	0.70
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia and Central Asia	3.53	3.92	3.31	3.46	3.34	3.39	3.38	3.26	3.11
Russia	3.53	3.67	3.19	3.42	3.24	3.29	3.25	3.10	2.97
Azerbaijan	4.31	14.08	8.85	8.63	7.69	7.70	6.96	7.20	6.97
Georgia	0.08	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Kazakhstan	6.53	7.27	5.26	4.78	5.53	5.94	6.70	6.90	6.28
Kyrgyzstan	0.16	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02
Tajikistan	0.06	0.02	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Turkmenistan	1.79	1.67	1.78	1.66	1.55	1.45	1.47	1.66	1.58
Uzbekistan	0.96	0.80	0.64	0.56	0.54	0.46	0.43	0.42	0.43

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* data. All rights reserved.

Production/Consumption Ratio

Countries^(*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Middle East	4.16	3.20	3.31	3.52	3.43	3.52	3.36	3.28	3.20
Bahrain	3.20	3.14	3.49	3.54	3.33	3.20	3.25	3.36	3.25
Iran	2.44	2.28	1.78	2.39	2.49	2.30	1.71	1.56	1.74
Iraq	3.70	4.30	6.73	6.88	6.62	6.54	6.36	6.02	5.88
Kuwait	7.79	5.55	6.91	7.27	6.88	6.96	7.20	6.97	5.64
Oman	10.36	6.91	5.34	5.22	5.12	4.23	4.57	4.88	4.13
Qatar	13.67	9.64	8.14	8.37	7.12	6.69	5.81	7.50	7.44
Saudi Arabia	5.63	3.19	3.14	3.23	3.21	3.47	3.32	3.20	3.15
Syria	1.38	1.25	0.21	0.18	0.16	0.17	0.26	0.34	0.34
United Arab Emirates	5.75	4.29	4.20	3.84	3.56	3.86	4.14	4.24	3.83
Yemen	3.03	2.07	0.44	0.26	0.76	1.15	1.02	1.04	1.03
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Africa	3.40	2.84	1.99	1.88	1.97	1.97	1.99	1.84	1.84
Algeria	7.12	4.90	3.56	3.73	3.60	3.46	3.34	3.34	3.25
Angola	29.65	18.19	11.66	12.91	14.30	13.19	11.59	11.55	10.33
Cameroon	4.07	1.88	2.38	2.35	1.99	1.81	1.87	2.09	1.88
Congo	41.13	26.07	15.61	16.72	22.16	27.55	28.28	27.58	25.02
Côte d'Ivoire	1.67	1.63	0.58	0.64	0.80	0.63	0.65	0.53	0.50
Dem. Rep. Congo	2.08	1.38	1.00	1.19	1.33	1.35	1.28	1.49	1.42
Egypt	1.05	0.92	0.81	0.80	0.83	0.86	0.87	0.94	0.84
Gabon	18.00	13.11	10.44	9.87	14.32	13.57	15.18	15.25	13.97
Ghana	0.13	0.10	1.24	0.97	1.66	1.72	1.93	1.94	1.60
Libya	6.50	5.47	2.01	2.14	4.28	4.88	5.60	2.20	5.52
Nigeria	8.46	8.65	5.41	4.52	4.61	4.68	4.57	4.15	3.35
South Africa	0.42	0.24	0.17	0.17	0.17	0.15	0.16	0.17	0.17
South Sudan			10.55	10.51	12.27	12.02	13.19	14.96	12.71
Sudan	4.24	4.08	0.90	0.61	0.50	0.54	0.53	0.50	0.51
Tunisia	0.80	0.95	0.54	0.54	0.44	0.42	0.38	0.40	0.41

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Production/Consumption Ratio

Countries^(*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Asia - Pacific	0.33	0.30	0.26	0.24	0.23	0.22	0.22	0.22	0.21
Australia	0.57	0.53	0.33	0.31	0.27	0.29	0.38	0.44	0.42
Bangladesh	0.04	0.09	0.07	0.10	0.10	0.08	0.08	0.09	0.08
Brunei	14.69	10.57	7.46	8.06	7.54	6.56	6.05	2.56	1.81
China	0.53	0.45	0.37	0.33	0.31	0.29	0.28	0.28	0.26
India	0.29	0.26	0.20	0.19	0.18	0.17	0.16	0.17	0.15
Indonesia	0.82	0.70	0.49	0.54	0.48	0.43	0.42	0.46	0.40
Malaysia	1.53	1.22	1.02	1.04	1.00	1.02	0.91	0.96	0.83
Myanmar	0.52	0.75	0.15	0.12	0.08	0.06	0.05	0.05	0.06
New Zealand	0.16	0.39	0.30	0.24	0.21	0.17	0.16	0.17	0.16
Pakistan	0.22	0.18	0.19	0.18	0.18	0.23	0.22	0.23	0.20
Philippines	0.05	0.06	0.04	0.03	0.03	0.03	0.02	0.03	0.02
South Korea	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Thailand	0.29	0.34	0.33	0.33	0.32	0.31	0.30	0.30	0.28
Vietnam	1.41	0.78	0.88	0.69	0.60	0.53	0.47	0.45	0.41
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Americas	0.68	0.71	0.90	0.87	0.89	0.94	0.98	1.06	1.00
Argentina	1.68	1.12	0.95	0.92	0.89	0.96	1.04	1.14	1.05
Bolivia	1.08	0.93	0.96	0.94	0.86	0.80	0.77	0.82	0.78
Brazil	0.79	0.78	0.80	0.87	0.91	0.91	0.94	1.04	0.98
Canada	1.35	1.46	1.86	1.87	2.03	2.15	2.13	2.32	2.40
Chile	0.03	0.04	0.02	0.01	0.02	0.02	0.03	0.03	0.02
Colombia	2.10	2.96	3.00	2.44	2.49	2.50	2.42	2.46	2.11
Cuba	0.30	0.30	0.29	0.29	0.29	0.28	0.26	0.25	0.23
Ecuador	2.93	2.00	2.04	2.17	2.12	1.92	2.00	2.01	1.93
Guatemala	0.25	0.16	0.11	0.09	0.10	0.09	0.08	0.08	0.07
Mexico	1.82	1.41	1.29	1.20	1.10	1.07	0.98	1.22	1.19
Peru	0.75	0.78	0.63	0.54	0.51	0.50	0.51	0.57	0.46
Trinidad and Tobago	3.88	3.45	2.36	2.06	2.24	2.36	2.65	3.04	2.87
United States	0.33	0.40	0.66	0.63	0.66	0.75	0.84	0.90	0.84
Venezuela	4.42	3.52	3.75	3.86	3.72	3.14	2.44	2.60	2.54

^(*) Data source: Eni's calculations on IEA (2022) *Monthly Oil Data Services* data. All rights reserved.



Oil - Trade and Prices

REGIONAL CRUDE BALANCES

Crude Surplus Deficit by Area

EXPORTS

The World Top 10 Exporters
Countries

IMPORTS

The World Top 10 Importers
Countries

CRUDE FUTURE PRICES AND OPEN INTERESTS

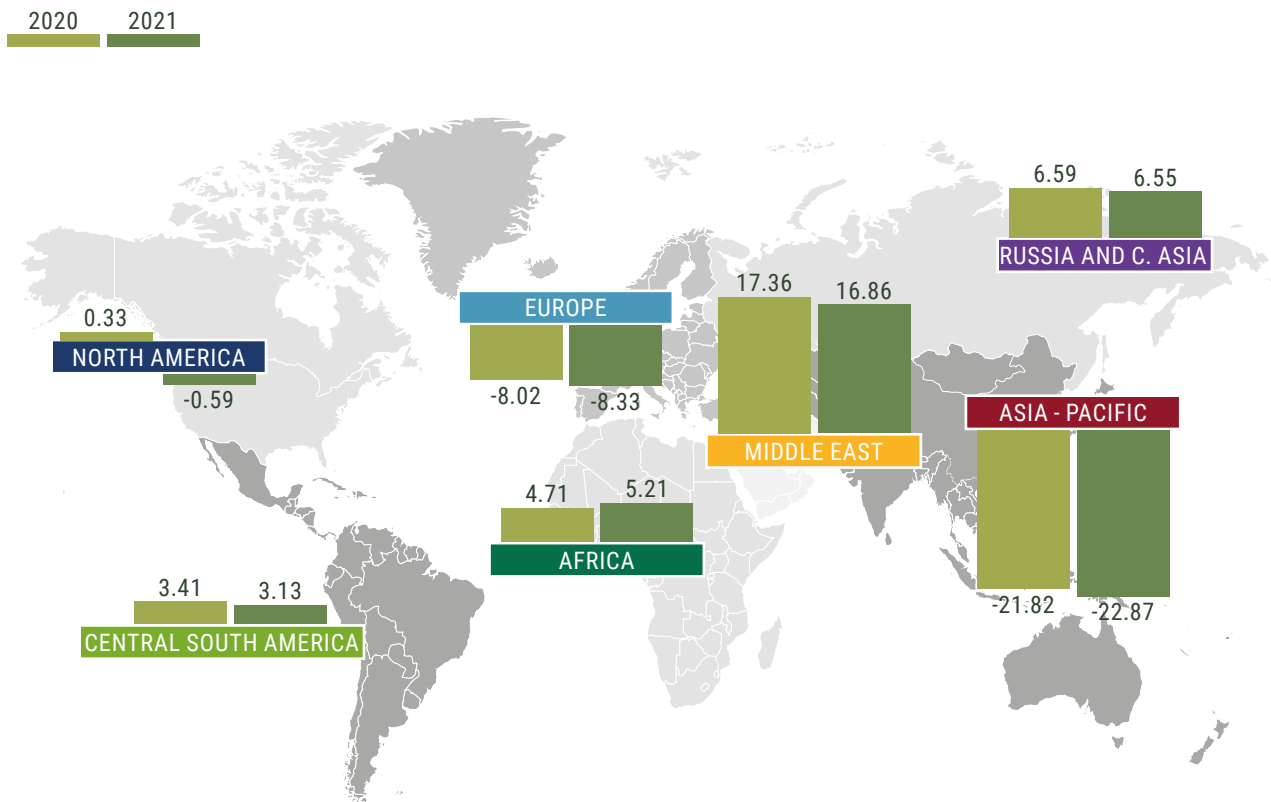
Regional Crude Balances^(*)

Crude Surplus Deficit by Area^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ (2021-2020)	Δ (2021-2010)
Europe	-9,783	-9,449	-9,675	-9,531	-9,978	-9,726	-9,749	-8,015	-8,327	-312	1,122
Russia and Central Asia	6,344	7,127	6,734	7,056	7,194	7,290	7,374	6,595	6,550	-45	-577
Middle East	17,054	16,040	19,304	20,552	19,912	20,252	18,894	17,355	16,862	-493	822
Africa	6,686	7,251	5,828	5,305	5,736	5,787	5,948	4,706	5,213	507	-2,039
Asia - Pacific	-13,240	-15,970	-19,260	-20,598	-21,702	-22,678	-23,178	-21,824	-22,868	-1,044	-6,898
Americas	-5,940	-4,639	-241	-647	-345	794	2,464	3,746	2,542	-1,204	7,181
- North America	-9,653	-8,161	-4,286	-4,698	-4,334	-2,721	-878	332	-592	-924	7,569
- Central South America	3,713	3,522	4,045	4,051	3,989	3,515	3,342	3,414	3,134	-280	-388
World	1,121	360	2,691	2,137	816	1,720	1,752	2,561	-28	-2,590	-389

Crude Surplus Deficit by Area (2020 and 2021)



^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Services* and Wood MacKenzie data. All rights reserved.

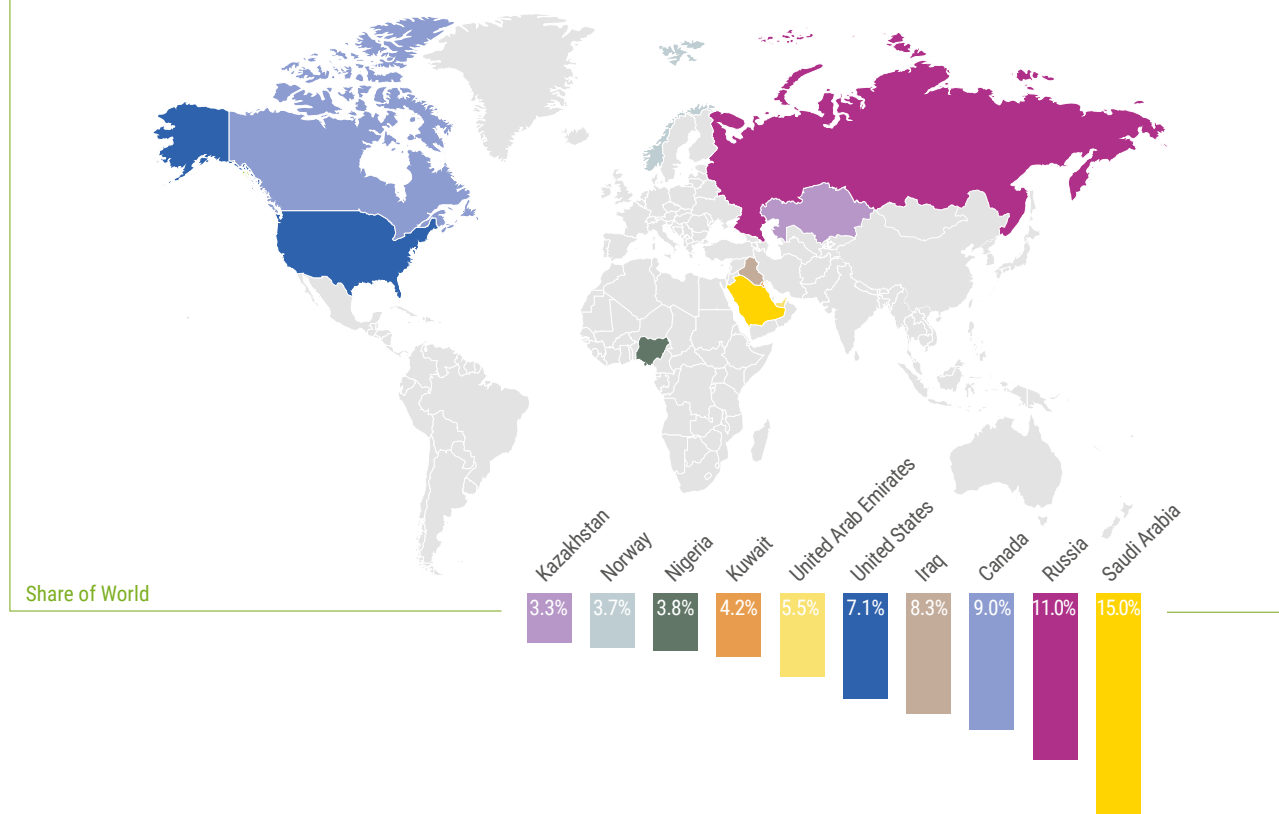
Exports

The World Top 10 Exporters (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Saudi Arabia	7,209	6,644	7,163	7,463	6,968	7,372	7,038	6,659	6,227	-6.5%	-0.6%
Russia	5,100	4,912	4,937	5,105	5,092	5,246	5,398	4,715	4,565	-3.2%	-0.7%
Canada	1,578	1,948	3,029	3,104	3,318	3,651	3,778	3,633	3,755	3.3%	6.1%
Iraq	1,472	1,890	3,005	3,804	3,802	3,862	3,968	3,428	3,440	0.3%	5.6%
United States	34	42	465	593	1,158	2,048	2,982	3,175	2,951	-7.0%	47.3%
United Arab Emirates	2,195	2,104	2,441	2,408	2,379	2,296	2,414	2,418	2,305	-4.7%	0.8%
Kuwait	1,651	1,430	1,964	2,128	2,010	2,050	1,986	1,826	1,740	-4.7%	1.8%
Nigeria	2,326	2,464	2,114	1,738	1,811	1,979	2,008	1,879	1,592	-15.3%	-3.9%
Norway	2,316	1,586	1,223	1,363	1,348	1,243	1,222	1,492	1,549	3.8%	-0.2%
Kazakhstan	1,093	1,386	1,255	1,206	1,385	1,396	1,400	1,412	1,355	-4.0%	-0.2%
Rest of the World	18,019	17,422	14,747	15,393	15,637	14,995	13,405	11,742	12,139	3.4%	-3.2%
World	42,993	41,828	42,344	44,304	44,908	46,138	45,599	42,379	41,618	-1.8%	0.0%

The World Top 10 (2021)



(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2022) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Exports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe											
Albania	0	9	18	16	9	11	11	11	9	-20.3%	0.0%
Belarus	27	0	32	32	32	33	33	24	11	-53.0%	
Belgium	0	0	0	0	0	0	0	0	4		
Croatia	0	0	0	0	0	0	2	11	11	-2.5%	
Czech Republic	1	0	1	1	0	0	0	0	0		
Denmark	273	154	90	78	82	56	46	22	17	-21.7%	-18.1%
France	0	0	0	0	0	0	0	0	2		
Germany	14	14	7	2	0	0	2	0	0		-100.0%
Greece	18	17	2	3	3	4	5	2	2	-5.6%	-18.8%
Hungary	7	0	2	1	3	8	3	4	3	-8.5%	
Ireland	0	2	0	0	6	0	1	4	2	-58.6%	-1.0%
Italy	15	6	14	12	15	10	0	4	3	-2.3%	-5.2%
Lithuania	3	2	1	1	1	1	1	1	1	-29.7%	-12.5%
Netherlands	21	10	6	7	8	9	8	8	6	-17.8%	-4.2%
Norway	2,316	1,586	1,223	1,363	1,348	1,243	1,222	1,492	1,549	3.8%	-0.2%
Poland	5	4	5	4	4	6	5	4	4	-9.1%	-1.4%
Romania	0	2	1	0	1	0	0	0	0	-2.9%	-18.1%
Slovakia	1	0	1	0	1	0	0	0	0		-15.6%
Sweden	0	0	0	0	16	0	6	1	21	2048.0%	
United Kingdom	978	733	589	616	686	810	827	721	598	-17.1%	-1.8%
Ukraine	2	0	0	0	2	0	0	2	2	12.5%	

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Exports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia											
Russia	5,100	4,912	4,937	5,105	5,092	5,246	5,398	4,715	4,565	-3.2%	-0.7%
Azerbaijan	286	853	657	650	610	603	554	497	483	-2.8%	-5.0%
Georgia	0	0	3	0	0	0	0	0	0		
Kazakhstan	1,093	1,386	1,255	1,206	1,385	1,396	1,400	1,412	1,355	-4.0%	-0.2%
Kyrgyzstan	0	0	0	0	0	1	1	1	0	-100.0%	
Turkmenistan	50	26	69	50	34	21	16	12	10	-18.1%	-8.3%
Middle East											
Bahrain	150	151	149	155	152	154	153	148	152	2.6%	0.1%
Iran	2,394	2,248	1,081	1,922	2,125	1,850	651	404	763	88.6%	-9.4%
Iraq	1,472	1,890	3,005	3,804	3,802	3,862	3,968	3,428	3,440	0.3%	5.6%
Kuwait	1,651	1,430	1,964	2,128	2,010	2,050	1,986	1,826	1,740	-4.7%	1.8%
Oman	718	745	844	882	806	793	850	786	804	2.3%	0.7%
Qatar	697	650	580	576	527	528	571	568	581	2.3%	-1.0%
Saudi Arabia	7,209	6,644	7,163	7,463	6,968	7,372	7,038	6,659	6,227	-6.5%	-0.6%
Syria	208	163	0	0	0	0	0	0	0		-100.0%
United Arab Emirates	2,195	2,104	2,441	2,408	2,379	2,296	2,414	2,418	2,305	-4.7%	0.8%
Yemen	296	183	9	0	0	0	0	0	0		-100.0%

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Exports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa											
Algeria	968	709	642	669	633	571	584	439	446	1.7%	-4.1%
Angola	947	1,711	1,711	1,670	1,577	1,421	1,319	1,220	1,080	-11.5%	-4.1%
Cameroon	82	56	84	86	69	57	65	63	58	-7.6%	0.4%
Chad	174	122	95	103	84	102	113	106	96	-9.8%	-2.2%
Congo	235	288	227	254	261	307	309	282	251	-11.2%	-1.2%
Dem. Rep. Congo	25	22	21	20	24	23	23	22	21	-5.1%	-0.4%
Egypt	41	188	247	227	210	214	168	181	198	9.3%	0.5%
Equatorial Guinea	275	206	182	158	125	121	110	115	93	-18.9%	-7.0%
Gabon	249	225	206	205	188	174	207	196	181	-7.6%	-2.0%
Ghana	0	0	104	85	163	177	203	193	160	-17.0%	
Ivory Coast	40	38	27	30	37	30	35	27	28	4.0%	-2.8%
Libya	1,306	1,299	288	350	792	999	1,036	347	1,091	214.2%	-1.6%
Mauritania	0	8	5	6	3	3	2	0	0		-100.0%
Mozambique	0	1	0	0	0	0	0	0	0		-100.0%
Nigeria	2,326	2,464	2,114	1,738	1,811	1,979	2,008	1,879	1,592	-15.3%	-3.9%
South Africa	0	0	0	0	0	0	0	0	16		83.6%
South Sudan	0	0	148	137	147	144	168	156	140	-10.2%	
Sudan	236	387	12	7	0	0	0	0	0		-100.0%
Tunisia	59	77	38	37	33	28	33	25	27	9.6%	-9.1%

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Exports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific											
Australia	226	311	219	198	178	213	246	251	254	0.9%	-1.8%
Brunei	198	148	116	105	98	92	107	68	0	-100.0%	-100.0%
China	162	61	57	59	97	53	16	33	52	59.2%	-1.4%
Indonesia	433	323	315	344	281	208	72	87	121	39.2%	-8.5%
Malaysia	382	345	323	334	301	302	300	313	230	-26.6%	-3.6%
Mongolia	1	6	22	22	21	17	18	11	17	49.8%	10.3%
Myanmar	7	0	2	3	5	5	4	3	4	27.6%	
New Zealand	12	47	39	30	26	21	22	18	13	-26.5%	-10.9%
Pakistan	0	0	6	4	8	11	11	7	6	-3.0%	
Papua New Guinea	47	9	0	0	0	0	0	0	0		-100.0%
Philippines	15	19	16	15	13	13	12	31	30	-3.7%	4.3%
Singapore	3	9	15	15	16	15	14	14	14	-2.6%	3.6%
Thailand	66	29	1	31	33	31	26	23	15	-34.2%	-6.0%
Vietnam	359	161	184	137	136	78	88	103	96	-6.5%	-4.6%
Americas											
Argentina	151	92	37	45	29	59	66	78	59	-24.4%	-4.0%
Barbados	1	1	1	1	1	1	1	1	1	-46.8%	-4.0%
Bolivia	4	0	0	0	0	0	0	0	0		
Brazil	275	632	737	847	1,042	1,078	1,228	1,371	1,335	-2.6%	7.0%
Canada	1,578	1,948	3,029	3,104	3,318	3,651	3,778	3,633	3,755	3.3%	6.1%
Chile	0	0	0	0	0	0	0	1	0	-100.0%	
Colombia	229	501	790	626	630	597	573	556	499	-10.2%	0.0%
Ecuador	344	336	412	389	365	355	375	346	320	-7.6%	-0.4%
Guatemala	16	10	9	7	8	6	5	4	3	-21.8%	-10.5%
Guyana	0	0	0	0	0	0	0	73	110	50.4%	
Mexico	2,002	1,446	1,235	1,265	1,252	1,271	1,189	1,190	1,081	-9.2%	-2.6%
Peru	13	19	8	2	2	7	6	11	0	-100.0%	-100.0%
Trinidad and Tobago	72	45	31	28	27	22	58	56	58	4.8%	2.3%
United States	34	42	465	593	1,158	2,048	2,982	3,175	2,951	-7.0%	47.3%
Venezuela	2,198	1,562	1,974	1,835	1,596	1,273	847	487	448	-8.0%	-10.7%

(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2022) *Monthly Oil Data Services* and other official data sources. All rights reserved.

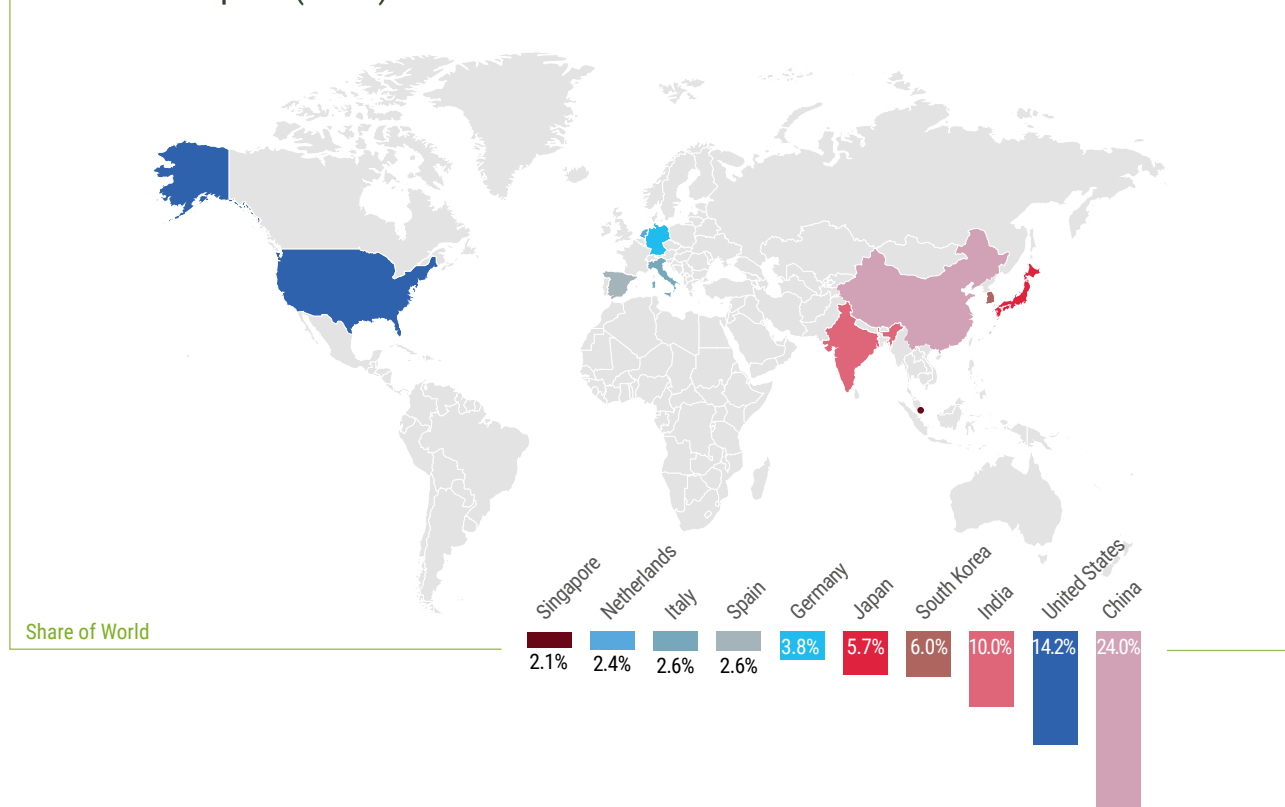
Imports

The World Top 10 Importers (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
China	2,543	4,767	6,728	7,641	8,412	9,263	10,141	10,882	10,294	-5.4%	7.2%
United States	10,921	9,862	7,363	7,872	7,973	7,770	6,801	5,877	6,108	3.9%	-4.3%
India	2,026	3,335	4,135	4,361	4,493	4,617	4,626	4,005	4,289	7.1%	2.3%
South Korea	2,309	2,355	2,755	2,905	3,012	3,006	2,896	2,642	2,588	-2.0%	0.9%
Japan	4,093	3,436	3,203	3,137	3,158	2,995	2,953	2,416	2,455	1.6%	-3.0%
Germany	2,246	1,865	1,825	1,825	1,815	1,704	1,721	1,655	1,629	-1.5%	-1.2%
Spain	1,191	1,049	1,295	1,283	1,319	1,352	1,326	1,097	1,123	2.4%	0.6%
Italy	1,790	1,570	1,251	1,218	1,327	1,241	1,263	1,007	1,134	12.6%	-2.9%
Netherlands	1,046	1,023	1,046	1,083	1,081	1,086	1,142	991	1,050	5.9%	0.2%
Singapore	1,180	896	976	1,042	1,156	1,129	1,074	929	900	-3.1%	0.0%
Rest of the World	14,468	13,001	12,946	12,889	13,191	13,037	12,903	11,340	11,343	0.0%	-1.2%
World	43,814	43,159	43,522	45,256	46,937	47,200	46,846	42,839	42,913	0.2%	-0.1%

The World Top 10 (2021)



(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data*, IEA (2022) *Monthly Oil Data Services* and other official data sources. All rights reserved.

Imports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe											
Austria	157	135	162	147	144	167	172	149	151	1.7%	1.0%
Belarus	386	295	458	363	363	365	360	319	320	0.2%	0.7%
Belgium	639	668	642	637	682	660	690	547	574	4.9%	-1.4%
Bosnia-Herzegovina	3	23	19	19	17	14	0	0	0		-100.0%
Bulgaria	121	109	122	124	138	118	140	98	79	-19.0%	-2.9%
Croatia	81	72	47	51	57	60	41	40	42	6.3%	-4.8%
Czech Republic	155	155	143	107	156	149	155	123	137	10.8%	-1.1%
Denmark	54	54	83	77	96	94	101	93	104	11.1%	6.1%
Finland	191	215	203	221	237	236	236	209	159	-23.8%	-2.7%
France	1,685	1,283	1,135	1,085	1,138	1,051	967	662	677	2.3%	-5.6%
Germany	2,246	1,865	1,825	1,825	1,815	1,704	1,721	1,655	1,629	-1.5%	-1.2%
Greece	374	403	442	469	473	487	457	455	456	0.2%	1.1%
Hungary	129	115	124	120	119	134	122	122	120	-1.6%	0.4%
Ireland	65	61	73	64	64	60	52	62	61	-1.7%	0.0%
Italy	1,790	1,570	1,251	1,218	1,327	1,241	1,263	1,007	1,134	12.6%	-2.9%
Lithuania	178	180	170	186	196	193	193	157	160	2.1%	-1.1%
Netherlands	1,046	1,023	1,046	1,083	1,081	1,086	1,142	991	1,050	5.9%	0.2%
North Macedonia	20	17	0	0	0	0	0	0	0		-100.0%
Norway	16	11	22	11	36	63	61	61	48	-21.3%	14.1%
Poland	358	454	530	491	493	537	532	498	472	-5.2%	0.4%
Portugal	261	220	282	269	284	252	225	211	187	-11.1%	-1.4%
Romania	179	120	136	154	159	170	178	145	143	-1.9%	1.6%
Serbia	62	38	37	45	50	55	48	52	59	13.5%	4.0%
Slovakia	110	109	118	117	112	109	103	113	109	-3.3%	0.0%
Spain	1,191	1,049	1,295	1,283	1,319	1,352	1,326	1,097	1,123	2.4%	0.6%
Sweden	402	397	402	394	397	398	341	372	360	-3.3%	-0.9%
Switzerland	95	90	56	59	57	60	55	56	46	-18.9%	-6.0%
Turkey	468	339	501	499	515	419	622	587	628	7.0%	5.8%
United Kingdom	1,044	953	847	792	885	883	902	708	720	1.7%	-2.5%
Ukraine	292	155	5	10	18	14	16	25	31	25.4%	-13.6%

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Imports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia											
Russia	49	0	58	0	0	0	0	0	0	0.0%	
Azerbaijan	0	0	0	0	1	0	0	0	0		
Georgia	0	0	3	1	1	0	0	0	0	-100.0%	
Kazakhstan	75	120	1	0	1	0	1	0	1	103.1%	-38.6%
Tajikistan	0	0	0	0	0	1	0	0	0	-100.0%	
Uzbekistan	0	13	17	22	21	24	13	14	16	9.2%	1.9%
Middle East											
Bahrain	230	235	216	210	220	220	223	177	183	3.2%	-2.3%
Iran	43	13	0	0	0	0	0	0	0		-100.0%
Israel	204	221	234	207	234	231	247	247	247	0.0%	1.0%
Jordan	90	68	68	58	56	47	47	42	42	-0.7%	-4.3%
Syria	0	0	110	122	138	119	99	75	75	-0.6%	
United Arab Emirates	0	0	38	52	68	42	53	163	187	14.7%	

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Imports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa											
Algeria	6	6	6	5	5	5	3	0	0	-100.0%	
Cameroon	30	34	28	30	20	11	6	0	0	-100.0%	
Egypt	50	73	64	119	120	122	104	97	83	-13.9%	1.2%
Ghana	39	33	6	29	5	4	17	14	10	-27.8%	-10.3%
Ivory Coast	76	59	62	34	48	49	58	51	51	-0.8%	-1.4%
Kenya	35	31	0	0	0	0	0	0	0	-100.0%	
Morocco	144	109	56	0	0	0	0	0	0	-100.0%	
Senegal	20	13	22	23	24	20	20	19	19	1.8%	3.4%
Sierra Leone	4	4	6	6	6	5	5	0	0	-100.0%	
South Africa	405	385	364	413	347	379	440	361	285	-21.1%	-2.7%
Sudan	0	0	6	18	14	15	15	9	15	66.5%	
Tunisia	23	4	19	19	13	11	3	17	16	-5.9%	13.8%
Zambia	8	13	13	10	10	12	14	6	0	-100.0%	-100.0%

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Imports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific											
Australia	379	469	315	330	331	357	325	236	195	-17.6%	-7.7%
Bangladesh	22	26	22	27	24	22	24	26	28	9.2%	0.7%
Brunei	0	0	0	0	0	0	29	66	0	-100.0%	
China	2,543	4,767	6,728	7,641	8,412	9,263	10,141	10,882	10,294	-5.4%	7.2%
India	2,026	3,335	4,135	4,361	4,493	4,617	4,626	4,005	4,289	7.1%	2.3%
Indonesia	332	284	384	415	396	316	210	188	267	42.0%	-0.6%
Japan	4,093	3,436	3,203	3,137	3,158	2,995	2,953	2,416	2,455	1.6%	-3.0%
Laos	0	0	4	5	6	8	3	0	0	-100.0%	-100.0%
Malaysia	164	159	171	222	207	189	198	185	100	-46.2%	-4.1%
New Zealand	10	11	11	11	11	11	11	11	11	1.1%	0.4%
North Korea	90	98	102	106	110	99	103	79	68	-12.9%	-3.2%
Pakistan	176	136	177	177	211	183	180	203	311	53.2%	7.8%
Papua New Guinea	18	20	13	27	28	26	26	30	28	-6.7%	3.3%
Philippines	215	184	213	215	211	235	171	93	90	-3.2%	-6.3%
Singapore	1,180	896	976	1,042	1,156	1,129	1,074	929	900	-3.1%	0.0%
Sri-Lanka	40	36	34	34	30	35	37	33	37	10.9%	0.2%
South Korea	2,309	2,355	2,755	2,905	3,012	3,006	2,896	2,642	2,588	-2.0%	0.9%
Taiwan	1,045	876	841	859	853	880	889	740	763	3.1%	-1.3%
Thailand	828	849	891	878	927	980	873	853	880	3.2%	0.3%
Vietnam	0	0	4	9	24	109	155	234	290	23.7%	

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Imports

Countries (*)

Crude and non conventional oil
(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas											
Argentina	4	0	16	15	22	10	0	0	0		
Brazil	343	339	298	155	145	186	172	168	202	20.2%	-4.6%
Canada	928	770	570	806	822	759	922	720	702	-2.4%	-0.8%
Chile	204	158	169	169	175	171	183	146	163	11.2%	0.3%
Colombia	7	0	0	0	0	0	0	1	1	10.6%	
Costa Rica	11	10	0	0	0	0	0	0	0		-100.0%
Cuba	39	89	78	66	50	45	44	41	45	10.7%	-6.0%
Dominican Republic	42	27	16	23	20	25	24	10	10	4.9%	-8.7%
El Salvador	20	15	0	0	0	0	0	0	0		-100.0%
Guatemala	5	0	0	0	0	0	0	0	0		
Jamaica	9	23	24	24	20	21	27	22	22	-0.8%	-0.4%
Mexico	0	0	0	0	0	4	0	0	0		
Netherland Antilles	232	89	185	162	87	65	0	0	0		-100.0%
Nicaragua	15	15	15	12	14	13	11	10	10	-0.5%	-3.6%
Paraguay	1	0	0	0	0	0	0	0	0		
Peru	98	97	87	107	128	115	107	42	0	-100.0%	-100.0%
Trinidad and Tobago	92	68	78	101	88	63	0	0	0		-100.0%
United States	10,921	9,862	7,363	7,872	7,973	7,770	6,801	5,877	6,108	3.9%	-4.3%
Uruguay	41	39	39	39	10	42	39	38	40	4.7%	0.4%
Venezuela	0	9	33	6	1	2	4	6	6	0.3%	-3.7%

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Crude Future Prices and Open Interests^(*)

Crude Future Prices

(US\$/barrel)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
ICE Brent	55.3	80.3	53.6	45.1	54.7	71.7	64.2	43.2	70.9	64.2%	-1.1%
CME WTI	56.7	79.6	48.8	43.5	50.9	64.9	57.0	39.3	68.1	73.1%	-1.4%

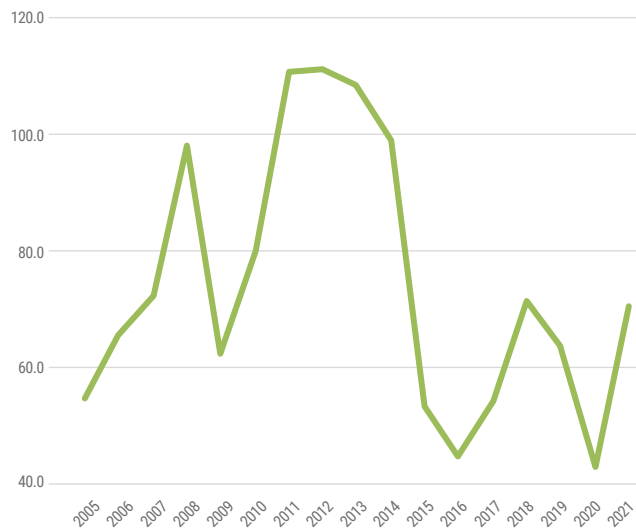
Total Open Interests

(no. contracts - daily totals)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
ICE Brent	350,337	813,445	1,922,243	2,195,065	2,401,096	2,369,529	2,379,096	2,544,098	2,418,589	-4.9%	10.4%
CME WTI	819,675	1,341,531	1,679,710	1,818,925	2,282,425	2,378,026	2,077,109	2,126,738	2,265,907	6.5%	4.9%

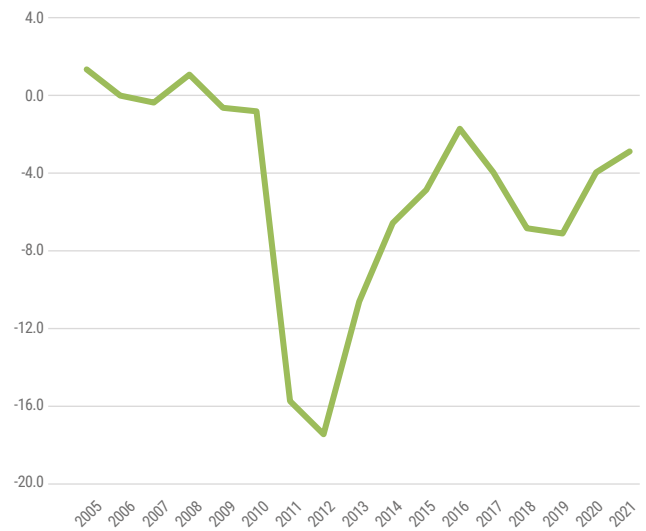
ICE Brent Price 1 Month^(*)

(US\$/barrel)



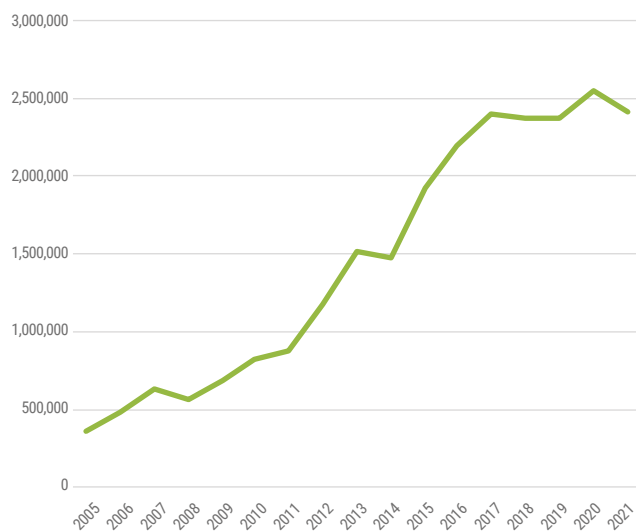
WTI vs Brent 1 Month Differential^(*)

(US\$/barrel)



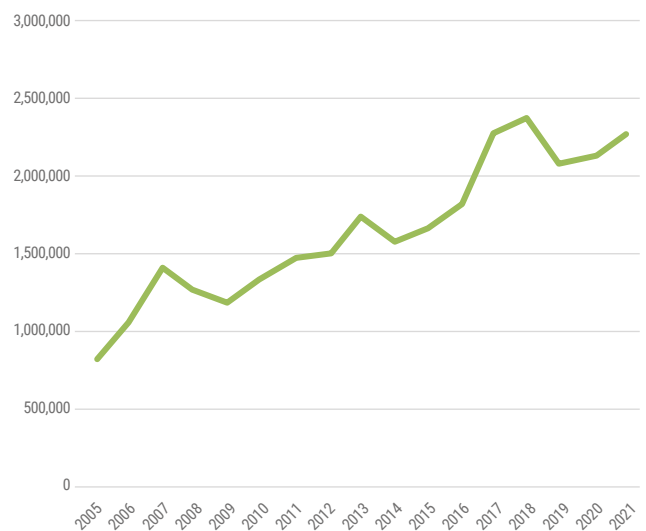
ICE Brent Total Open Interests^(*)

(no. contracts - daily totals)



CME WTI Total Open Interests^(*)

(no. contracts - daily totals)



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



Oil - Production Quality

WORLD

Crude Production by Quality
Crude Production by Gravity
Crude Production by Sulphur Content
Quality and Production Volume of Main Crudes

EUROPE

Crude Production by Quality
Quality and Production Volume of Main Crudes
Countries

RUSSIA AND CENTRAL ASIA

Crude Production by Quality
Quality and Production Volume of Main Crudes
Countries

MIDDLE EAST

Crude Production by Quality
Quality and Production Volume of Main Crudes
Countries

AFRICA

Crude Production by Quality
Quality and Production Volume of Main Crudes
Countries

ASIA - PACIFIC

Crude Production by Quality
Quality and Production Volume of Main Crudes
Countries

AMERICAS

Crude Production by Quality
Quality and Production Volume of Main Crudes
Countries

World

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

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
World (A)	74,091	74,227	80,680	80,555	80,615	82,359	82,151	75,731	76,648		
Ultra Light	1,952	2,334	2,825	2,791	2,747	2,762	2,769	2,682	2,640	3.1%	3.4%
Light & Sweet	13,918	13,360	14,718	14,246	14,852	16,871	18,070	15,992	16,189	18.0%	21.1%
Light & Medium Sour	2,645	3,707	3,834	3,673	3,863	3,941	3,812	3,354	3,290	5.0%	4.3%
Light & Sour	2,340	2,156	2,606	2,633	2,639	2,764	3,019	2,878	2,924	2.9%	3.8%
Medium & Sweet	8,277	8,788	9,371	8,608	8,780	8,334	8,703	8,710	8,658	11.8%	11.3%
Medium & Medium Sour	2,691	2,861	2,983	3,044	3,175	3,623	4,160	4,488	4,516	3.9%	5.9%
Medium & Sour	31,229	30,362	32,284	33,886	33,118	32,844	31,068	27,966	28,258	40.9%	36.9%
Heavy & Sweet	1,602	1,705	1,506	1,490	1,313	1,315	1,305	1,222	1,200	2.3%	1.6%
Heavy & Medium Sour	2,213	2,549	2,551	2,366	2,326	2,217	1,803	1,662	1,660	3.4%	2.2%
Heavy & Sour	6,447	5,718	7,333	7,209	7,206	7,101	6,872	6,169	6,672	7.7%	8.7%
Unassigned production: (B)	777	687	668	610	595	588	572	609	639	0.9%	0.8%
% Unassigned production (B/A)	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.8	0.8		

Crude Production by Gravity ^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
World	74,091	74,227	80,680	80,555	80,615	82,359	82,151	75,731	76,648		
Light	20,854	21,556	23,983	23,342	24,101	26,338	27,669	24,906	25,044	29.0%	32.7%
Medium	42,197	42,012	44,638	45,538	45,074	44,801	43,931	41,164	41,432	56.6%	54.1%
Heavy	10,263	9,972	11,390	11,065	10,845	10,633	9,979	9,053	9,532	13.4%	12.4%
Unassigned production	777	687	668	610	595	588	572	609	639	0.9%	0.8%

Crude Production by Sulphur Content ^(*)

(thousand barrels/day)

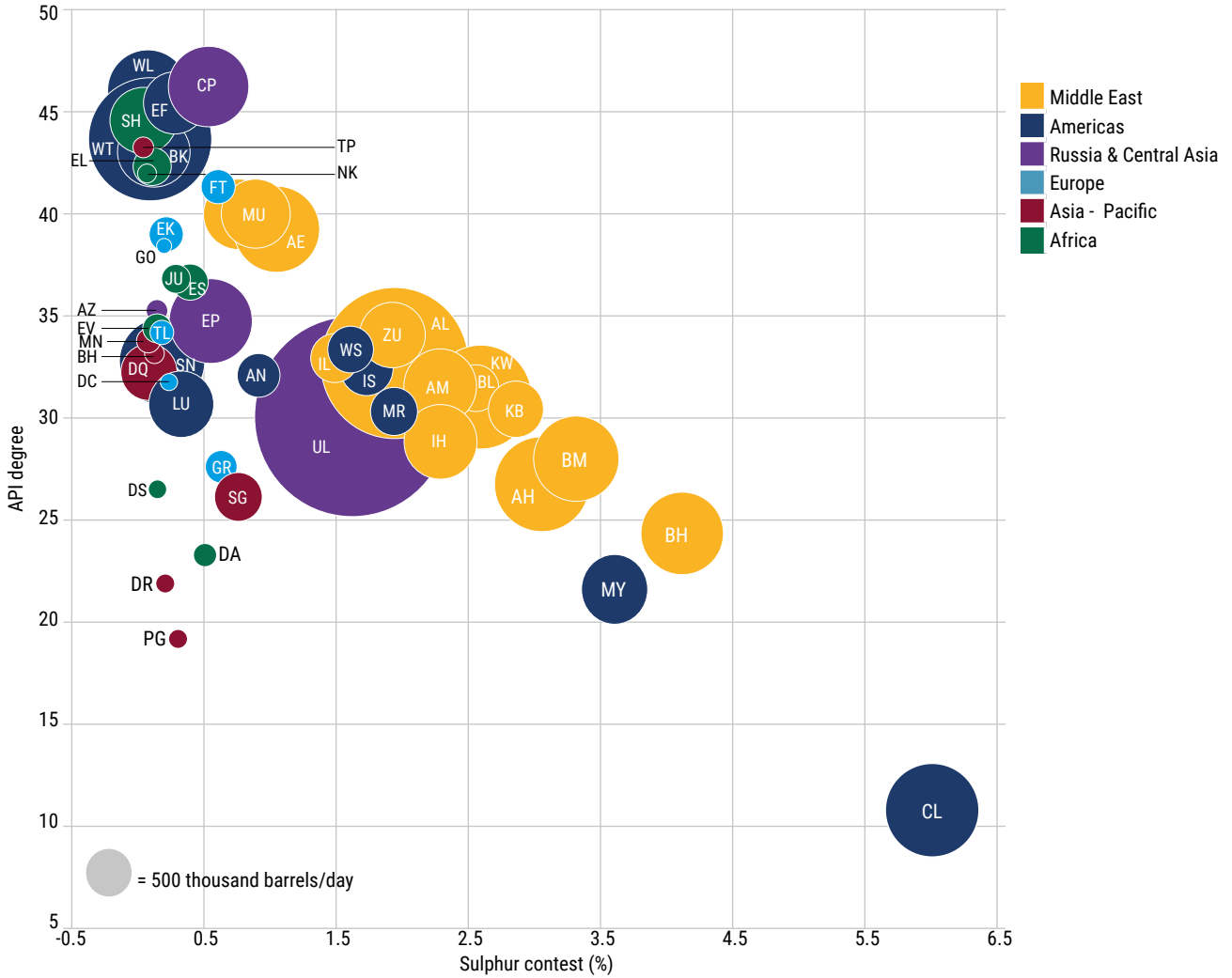
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
World	74,091	74,227	80,680	80,555	80,615	82,359	82,151	75,731	76,648		
Sweet	25,749	26,187	28,420	27,134	27,693	29,282	30,846	28,606	28,688	35.3%	37.4%
Medium Sour	7,549	9,118	9,368	9,083	9,364	9,780	9,774	9,504	9,466	12.3%	12.3%
Sour	40,016	38,236	42,223	43,728	42,963	42,709	40,959	37,013	37,855	51.5%	49.4%
Unassigned production	777	687	668	610	595	588	572	609	639	0.9%	0.8%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

World

Quality and Production Volume of Main Crudes 2021 (*)

(thousand barrels/day)



- AC Algerian C.te (Algeria)
- AE Arab Extra L. (Saudi Arabia)
- AH Arab Heavy (Saudi Arabia)
- AL Arab Light (Saudi Arabia)
- AM Arab Medium (Saudi Arabia)
- AN Alaskan Nth. Sl. (U.S.A.)
- AZ Azeri Light (Azerbaijan)
- BH Bach Ho (Vietnam)
- BH Basrah Heavy (Iraq)
- BK Bakken Blend (U.S.A.)
- BL Basrah Light (Iraq)
- BM Basrah Medium (Iraq)
- CB Cabinda (Angola)
- CH Changqing (China)

- CL Cold Lake (Canada)
- CP CPC Blend (Kazakh-Russia)
- DA Dalia (Angola)
- DC DUC Blend (Denmark)
- DQ Daqing (China)
- DR Duri (Indonesia)
- DS Dar Blend (Sudan)
- EF Eagle Ford (U.S.A.)
- EK Ekofisk (U.K., Norway)
- EL El Sharara (Libya)
- EP Espo (Russia)
- ES Es Sider (Libya)
- EV Escravos (Nigeria)
- FT Forties (U.K.)

- GO Goliat (Norway)
- GR Grane (Norway)
- IH Iran Heavy (Iran)
- IL Iran Light (Iran)
- IS Isthmus (Mexico)
- JU Jubilee (Ghana)
- KB Kirkuk Blend (Iraq)
- KW Kuwait (Kuwait)
- LU Lula (Brazil)
- MN Minas (Indonesia)
- MR Mars (U.S.A.)
- MU Murban (U.A.E.)
- MY Maya (Mexico)
- NK N'Kossa (Congo)

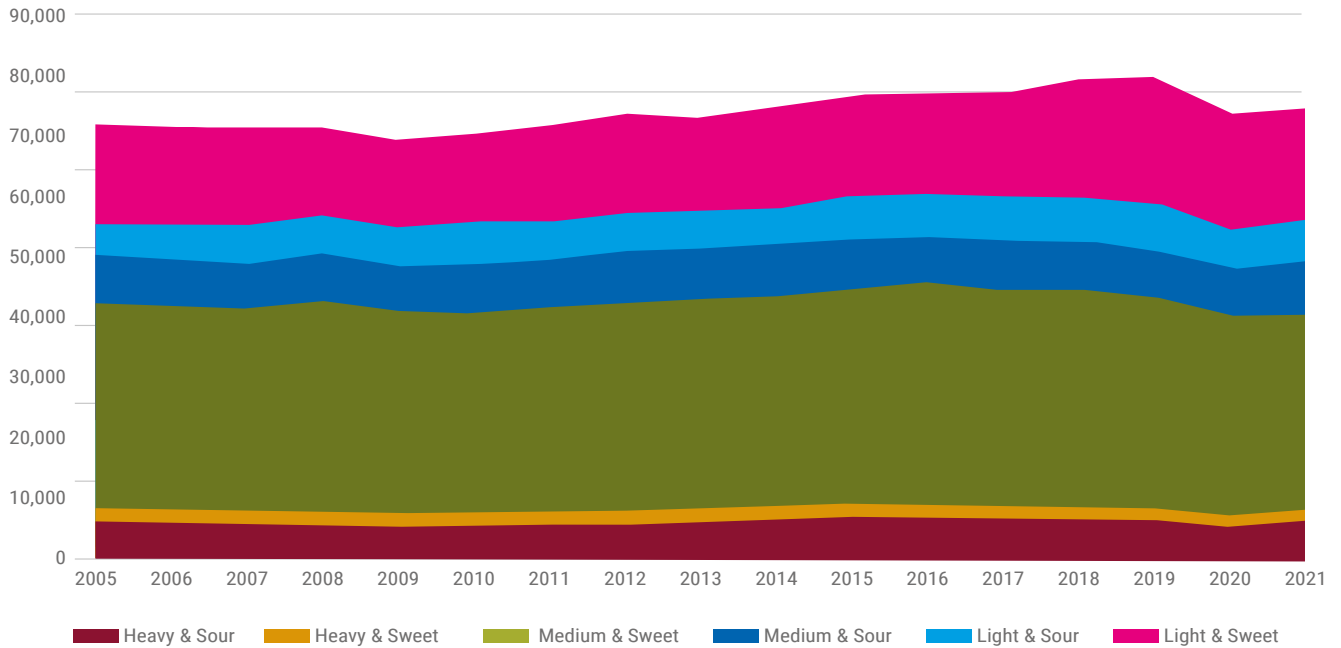
- PG Peng Lai (China)
- SG Shengli (China)
- SH Saharan B. (Algeria)
- SN Syncrude (Canada)
- TL Troll (Norway)
- TP Tapis (Malaysia)
- UL Urals (Russia)
- WL West Texas Light (USA)
- WS West Texas Sour (U.S.A.)
- WT West Texas Int. (U.S.A.)
- ZU Upper Zakum (U.A.E.)

(*) Data source: Eni.

World

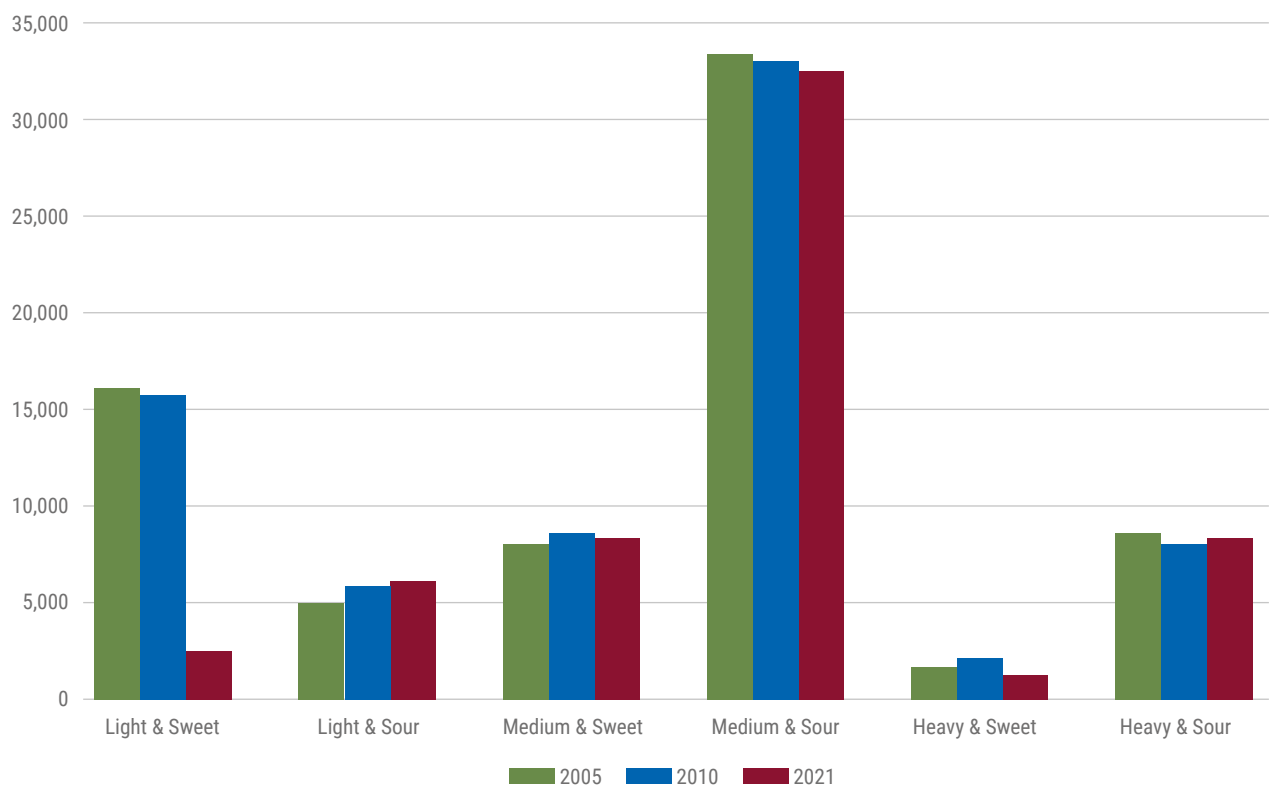
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Europe

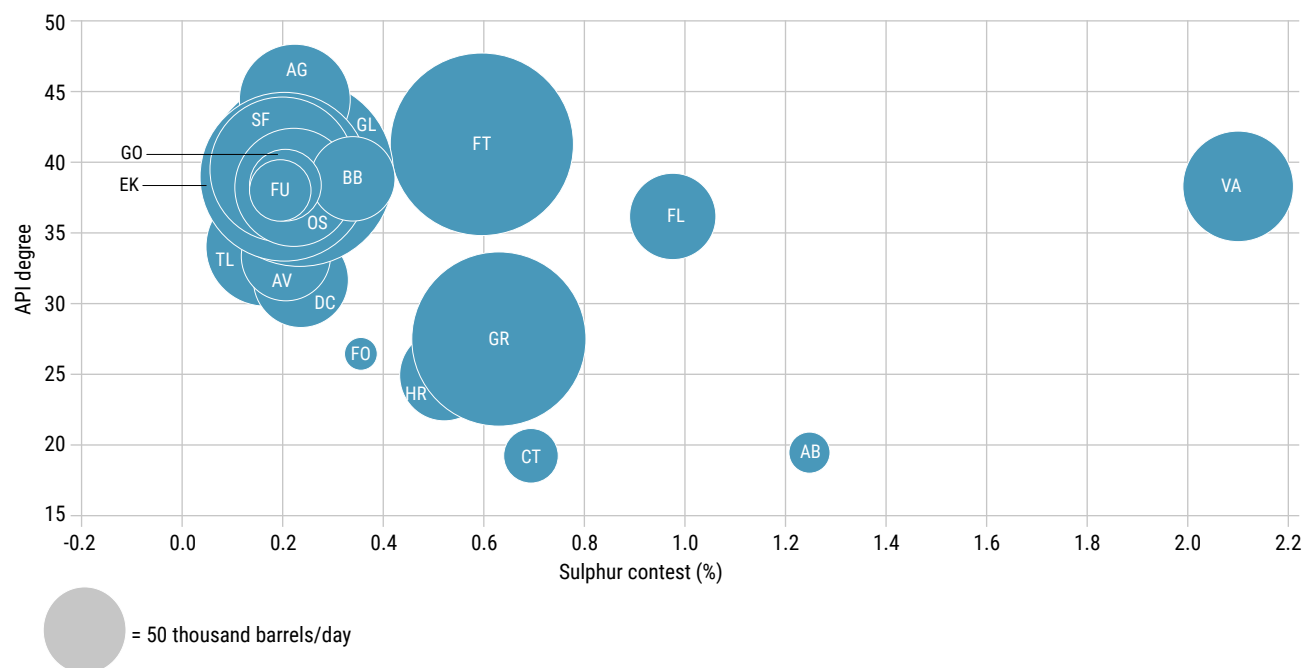
Crude Production by Quality^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Europe (A)	5,313	3,862	3,162	3,173	3,110	3,102	3,028	3,215	3,120	
Ultra Light	139	72	48	36	33	31	30	25	15	1.9% 0.5%
Light & Sweet	3,092	1,670	1,386	1,354	1,188	1,191	1,114	1,105	1,070	43.2% 34.3%
Light & Medium Sour	103	646	512	524	541	534	522	465	372	16.7% 11.9%
Light & Sour	88	68	77	51	62	75	64	82	84	1.8% 2.7%
Medium & Sweet	890	553	445	493	487	410	342	283	249	14.3% 8.0%
Medium & Medium Sour	106	86	79	75	72	71	393	716	797	2.2% 25.5%
Medium & Sour	1	29	15	6	0	0	0	0	0	0.8% 0.0%
Heavy & Sweet	55	85	39	43	69	132	157	142	141	2.2% 4.5%
Heavy & Medium Sour	398	276	199	249	332	325	80	75	76	7.1% 2.4%
Heavy & Sour	79	57	40	39	32	32	28	31	26	1.5% 0.8%
Unassigned production (B)	362	319	322	304	294	301	298	291	290	8.3% 9.3%
% Unassigned production (B/A)	6.8	8.3	10.2	9.6	9.4	9.7	9.8	9.0	9.3	

Quality and Production Volume of Main Crudes 2021^(**)

(thousand barrels/day)



AB Alba (U.K.)

AG Asgard (Norway)

AV Alvheim blend (Norway)

BB Brent Blend (U.K.)

CT Captain (U.K.)

DC DUC Blend (Denmark)

EK Ekofisk (U.K., Norway)

FL Flotta (U.K.)

FO Foinaven (U.K.)

FT Forties (U.K.)

FU Fulmar (U.K.)

GO Goliat (Norway)

GL Gullfaks (Norway)

GR Grane (Norway)

HR Heidrun (Norway)

OS Oseberg (Norway)

SF Statfjord (U.K., Norway)

TL Troll (Norway)

VA Val d'Agri Blend (Italy)

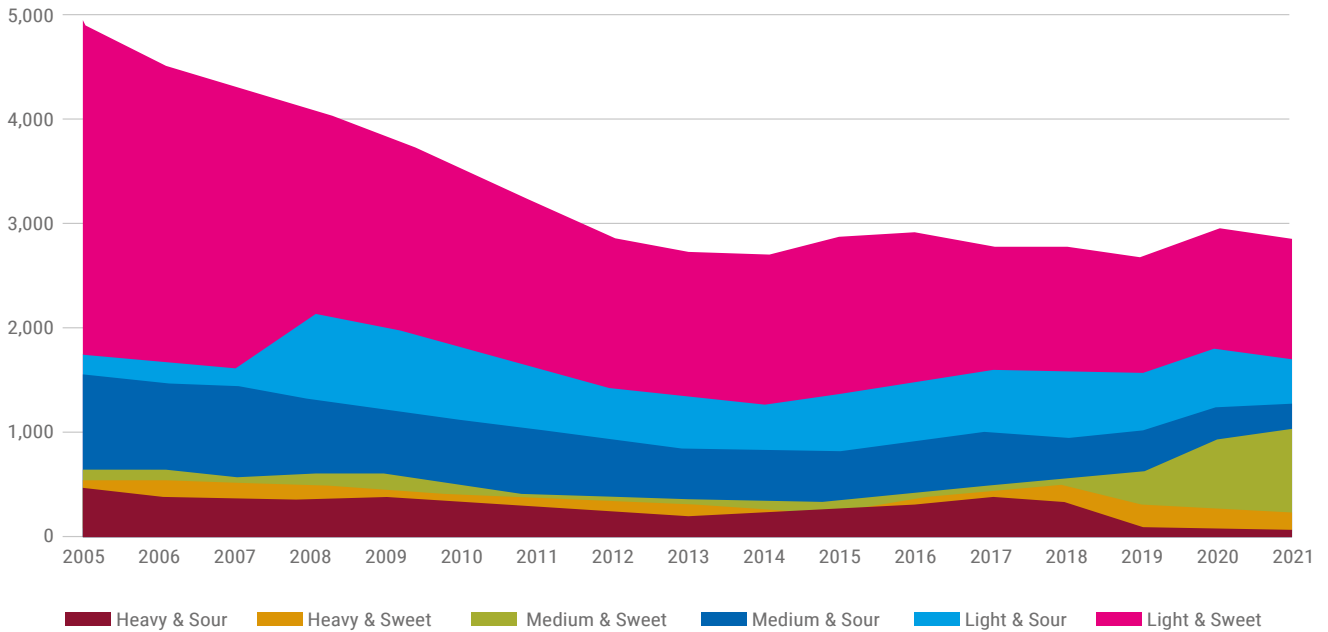
(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

(**) Data source: Eni.

Europe

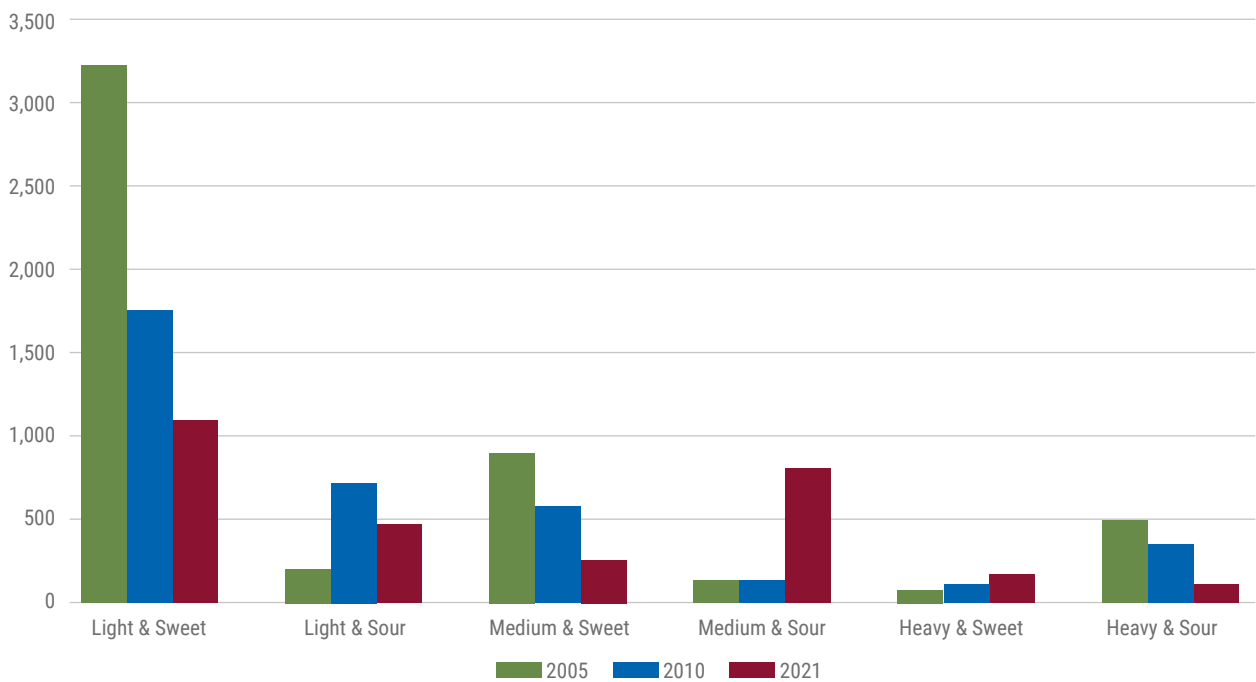
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Europe

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Denmark	388	255	156	141	137	114	101	71	66		
Light & Sweet	120	24	9	9	7	5	4	3	3	9.5%	3.8%
Medium & Sweet	268	231	147	132	130	109	97	68	63	90.5%	96.2%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Italy	115	96	100	71	78	89	78	101	100		
Light & Sweet	4	6	1	0	0	0	0	0	0	6.4%	0.4%
Light & Sour	88	68	77	51	62	75	64	82	84	71.3%	83.7%
Medium & Sour	1										
Heavy & Sour	21	21	23	20	16	14	14	18	16	22.3%	15.9%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Norway	2,690	1,871	1,610	1,648	1,617	1,515	1,441	1,719	1,792		
Ultra Light	139	72	48	36	33	31	30	25	15	3.9%	0.8%
Light & Sweet	1,773	1,242	1,105	1,048	944	898	799	790	808	66.4%	45.1%
Light & Medium Sour		31	14	14	11	8	5	5	3	1.6%	0.2%
Medium & Sweet	459	275	266	319	326	278	232	201	179	14.7%	10.0%
Medium & Medium Sour							323	649	732	40.8%	
Medium & Sour		29	15	6						1.6%	
Heavy & Medium Sour	318	222	162	225	304	300	52	49	55	11.9%	3.1%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Romania	106	86	79	75	72	71	70	68	65		
Medium & Medium Sour	106	86	79	75	72	71	70	68	65	100.0%	100.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
United Kingdom	1,652	1,235	894	934	912	1,012	1,041	965	807		
Light & Sweet	1,194	398	272	296	238	287	310	311	259	32.2%	32.1%
Light & Medium Sour	103	616	499	510	530	526	517	460	369	49.8%	45.7%
Medium & Sweet	163	47	31	41	30	24	14	13	7	3.8%	0.9%
Medium & Sour											
Heavy & Sweet	55	85	39	43	69	132	157	142	141	6.8%	17.5%
Heavy & Medium Sour	80	54	36	24	29	26	28	26	20	4.4%	2.5%
Heavy & Sour	58	36	18	19	16	18	15	13	10	2.9%	1.2%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Russia and Central Asia

Crude Production by Quality^(*)

(thousand barrels/day)

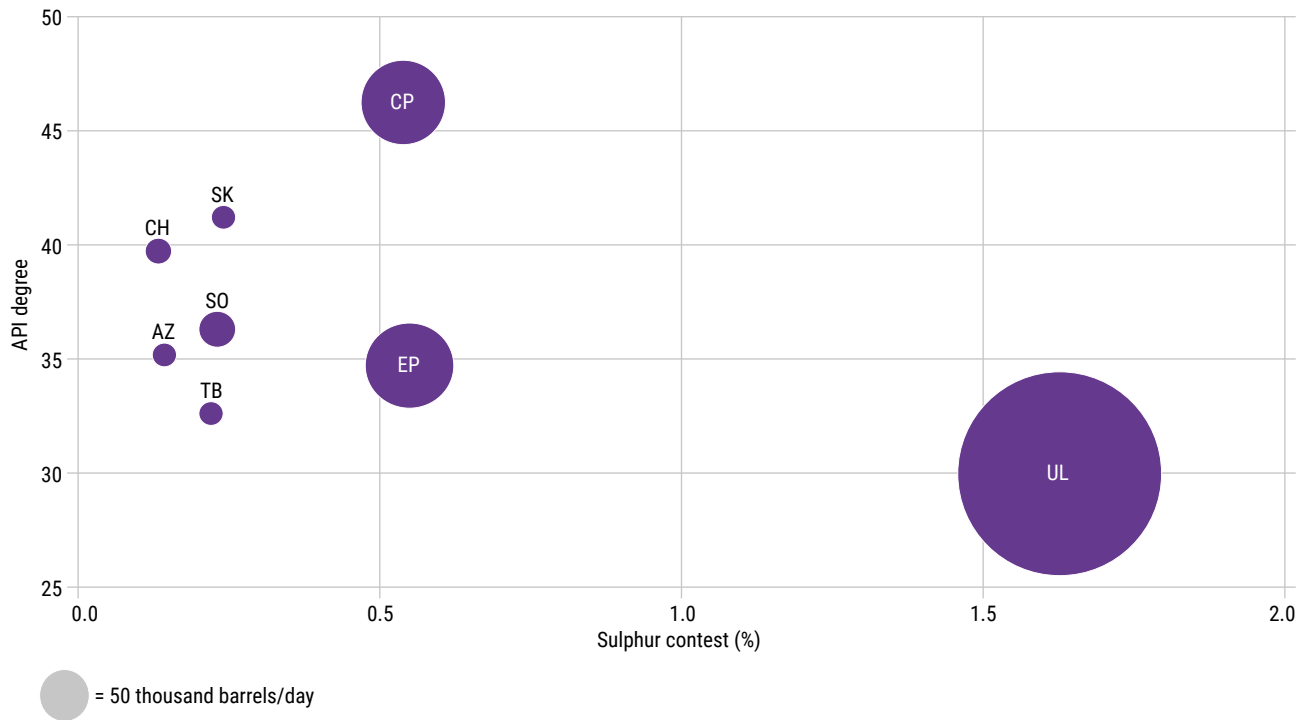
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Russia and Central Asia (A)	11,554	13,162	13,583	13,757	13,891	14,154	14,221	13,072	13,338		
Ultra Light	247	250	286	286	305	298	276	286	276	1.9%	2.1%
Light & Sweet	442	1,458	1,100	1,120	1,082	1,129	1,101	1,029	1,025	11.1%	7.7%
Light & Medium Sour	885	1,045	1,278	1,250	1,423	1,571	1,648	1,528	1,592	7.9%	11.9%
Light & Sour	62	45	41	35	36	26				0.3%	
Medium & Sweet	355	393	298	256	245	238	248	248	233	3.0%	1.7%
Medium & Medium Sour	291	617	1,301	1,313	1,404	1,589	1,663	1,668	1,679	4.7%	12.6%
Medium & Sour	9,267	9,352	9,278	9,496	9,395	9,303	9,284	8,312	8,531	71.1%	64.0%
Heavy & Sweet											
Heavy & Medium Sour											
Heavy & Sour											
Unassigned production (B)	4	2	2	2	1	2	1	1	1	0.0%	0.0%
% Unassigned production (B/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Russia and Central Asia

Quality and Production Volume of Main Crudes 2021^(*)

(thousand barrels/day)



- AZ Azeri Light (Azerbaijan)
- CH Cheleken (Turkmenistan)
- CP CPC Blend (Kazakh-Russia)
- EP Espo (Russia)
- SK Sakhalin Blend (Russia)

- SO Sokol
- TB Turkmenistan Blend (Turkmenistan)
- UL Urals (Russia)
- UL Urals Druzhba
- UL Urals Novorossiysk

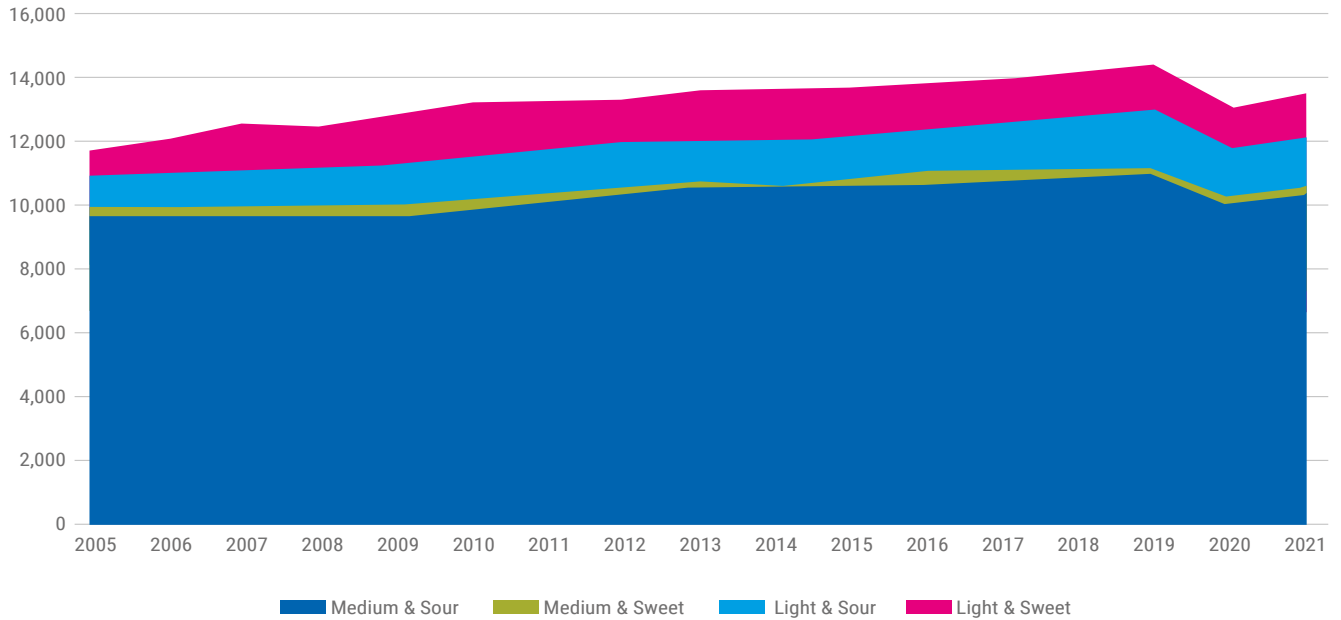
- Urals Odessa
- Urals Baltico
- Other Urals

^(*) Data source: Eni.

Russia and Central Asia

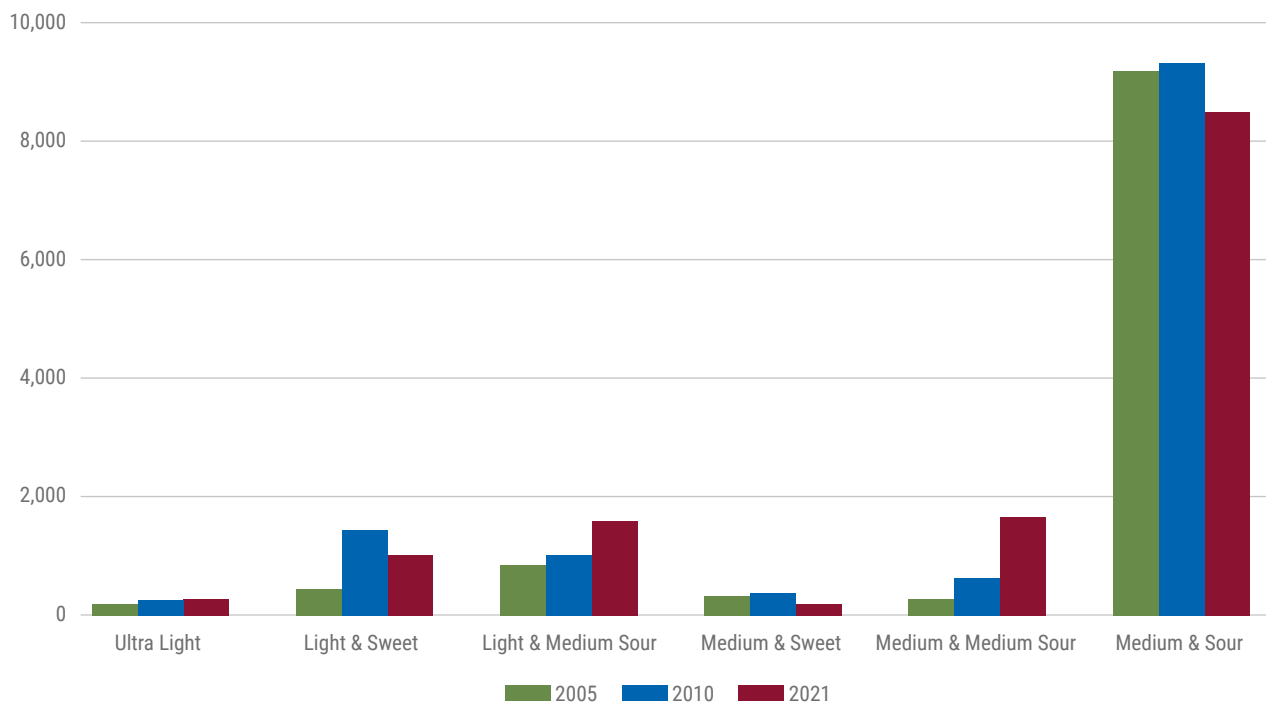
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Russia and Central Asia

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Russia	9,491	10,139	10,719	10,964	10,980	11,161	11,251	10,269	10,524		
Light & Sweet	139	267	281	301	312	355	362	350	328	2.6%	3.1%
Light & Medium Sour	130	136	103	76	120	147	161	157	166	1.3%	1.6%
Medium & Sweet		96								1.0%	
Medium & Medium Sour		318	1,069	1,104	1,164	1,373	1,463	1,455	1,502	3.1%	14.3%
Medium & Sour	9,222	9,322	9,267	9,483	9,384	9,286	9,265	8,307	8,528	91.9%	81.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Azerbaijan	448	1,041	848	828	783	792	764	698	703		
Light & Sweet	303	900	710	703	660	668	639	575	590	86.4%	84.0%
Medium & Sweet	145	141	139	125	123	125	125	123	112	13.6%	16.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Kazakhstan	1,293	1,694	1,694	1,669	1,848	1,937	1,942	1,836	1,846		
Ultra Light	247	250	286	286	305	298	276	286	276	14.8%	15.0%
Light & Sweet		236								13.9%	
Light & Medium Sour	755	909	1,175	1,174	1,303	1,423	1,466	1,338	1,392	53.7%	75.4%
Medium & Medium Sour	291	299	233	209	240	217	200	212	177	17.6%	9.6%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Turkmenistan	210	211	268	247	232	219	223	229	227		
Light & Sweet		55	109	116	110	106	99	104	107	26.1%	47.0%
Medium & Sweet	210	156	159	132	122	113	124	126	120	73.9%	53.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Uzbekistan	108	75	52	48	46	43	40	38	36		
Light & Medium Sour							21	34	33		92,2%
Light & Sour	62	45	41	35	36	26				60,4%	
Medium & Sour	46	30	11	13	10	17	19	4	3	39,6%	7,8%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Middle East

Crude Production by Quality^(*)

(thousand barrels/day)

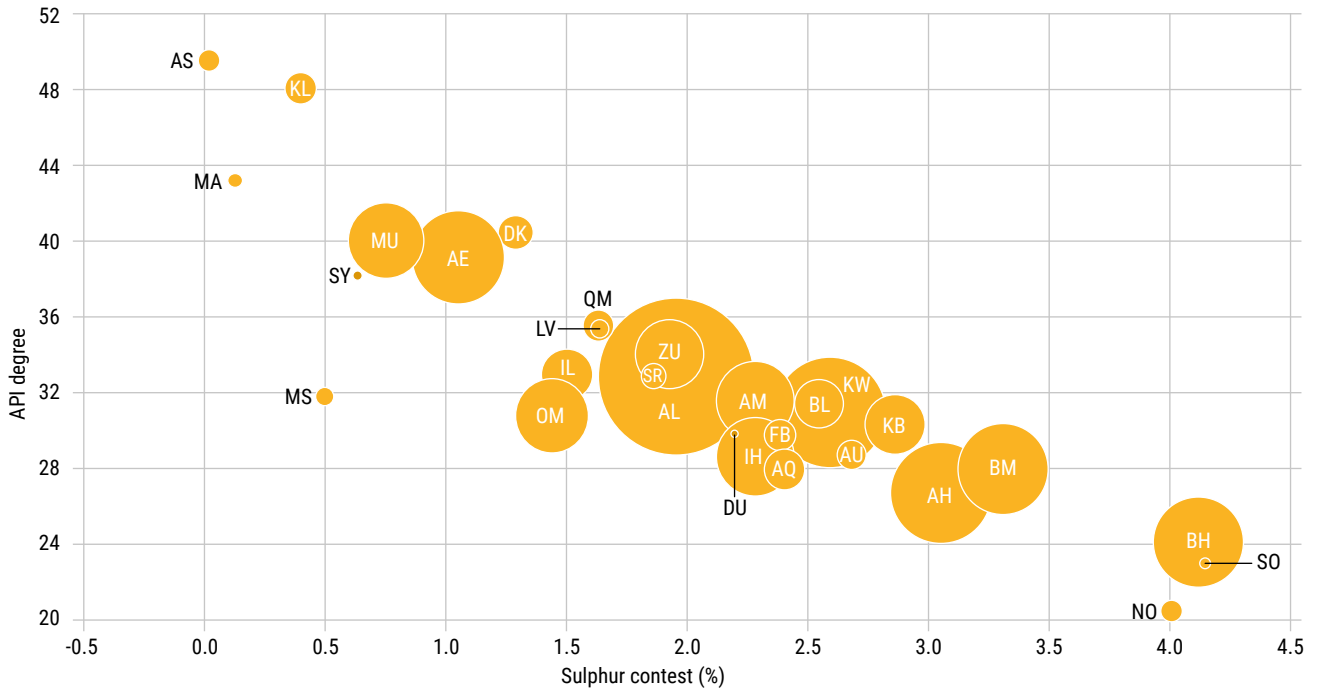
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total	
										(2010)	(2021)
Middle East	22,660	21,831	25,329	26,914	26,423	26,782	25,365	23,020	23,251		
Ultra Light	185	559	705	705	701	701	636	671	689	2.6%	3.0%
Light & Sweet	223	228	132	123	117	200	204	224	250	1.0%	1.1%
Light & Medium Sour	1,437	1,511	1,635	1,522	1,567	1,510	1,362	1,086	955	6.9%	4.1%
Light & Sour	2,170	1,974	2,433	2,527	2,523	2,647	2,941	2,783	2,826	9.0%	12.2%
Medium & Sweet											
Medium & Medium Sour	298	112	12	11	35	35	61	36	39	0.5%	0.2%
Medium & Sour	17,745	16,842	18,970	20,512	19,867	20,036	18,503	16,804	16,817	77.1%	72.3%
Heavy & Sweet											
Heavy & Medium Sour											
Heavy & Sour	603	605	1,442	1,514	1,613	1,653	1,657	1,415	1,676	2.8%	7.2%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Middle East

Quality and Production Volume of Main Crudes 2021^(*)

(thousand barrels/day)



● = 1,000 thousand barrels/day

- AU Abu Safah (Bahrain)
- AE Arab Extra Light (Saudi Arabia)
- AH Arab Heavy (Saudi Arabia)
- AL Arab Light (Saudi Arabia)
- AM Arab Medium (Saudi Arabia)
- AQ Al Shaheen (Qatar)
- AS Arab Super Light (Saudi Arabia)
- BL Basrah Light (Iraq)
- BM Basrah Medium (Iraq)
- BH Basrah Heavy (Iraq)

- DU Dubai (U.A.E.)
- DK Dukham (Qatar)
- FB Foroozan Blend (Iran)
- IH Iran Heavy (Iran)
- IL Iran Light (Iran)
- KB Kirkuk Blend (Iraq)
- KW Kuwait (Kuwait)
- KL Kuwait Super Light (Kuwait)
- LV Lavan Blend (Iran)
- MA Marib (Yemen)

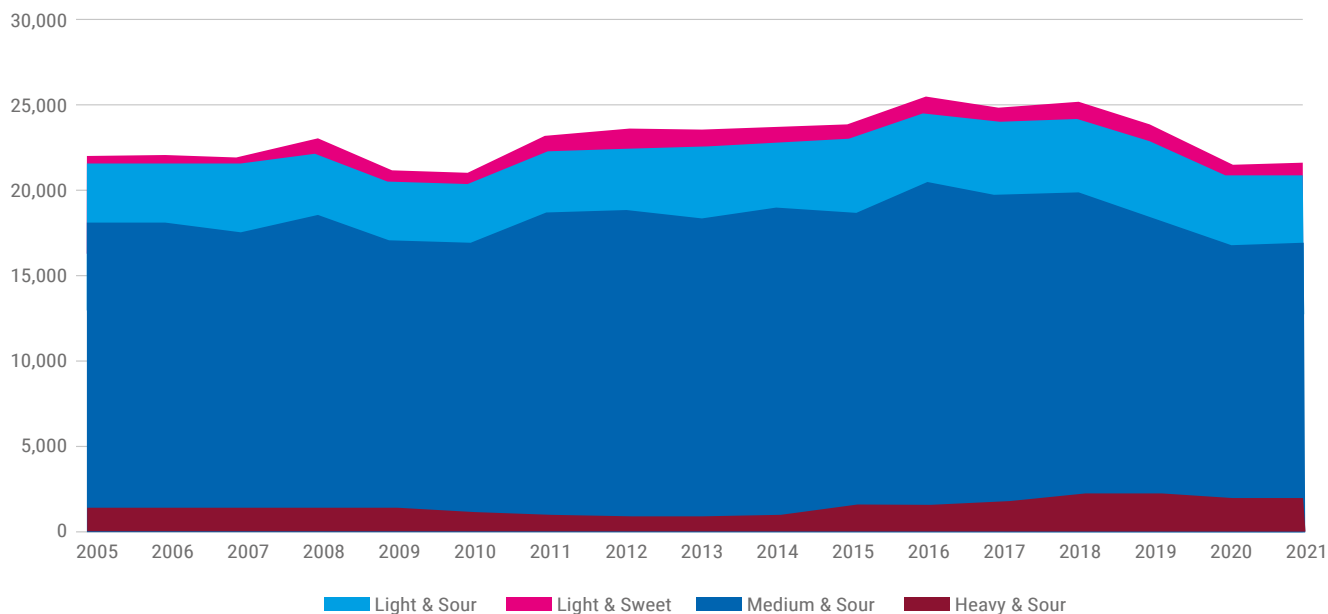
- MS Masila (Yemen)
- MU Murban (U.A.E.)
- NO Nowrooz (Iran)
- OM Oman (Oman)
- QM Qatar Marine (Qatar)
- SY Syrian Light (Syria)
- SO Souedieh (Syria)
- SR Sirri (Iran)
- ZU Upper Zakum (U.A.E.)

^(*)Data source: Eni.

Middle East

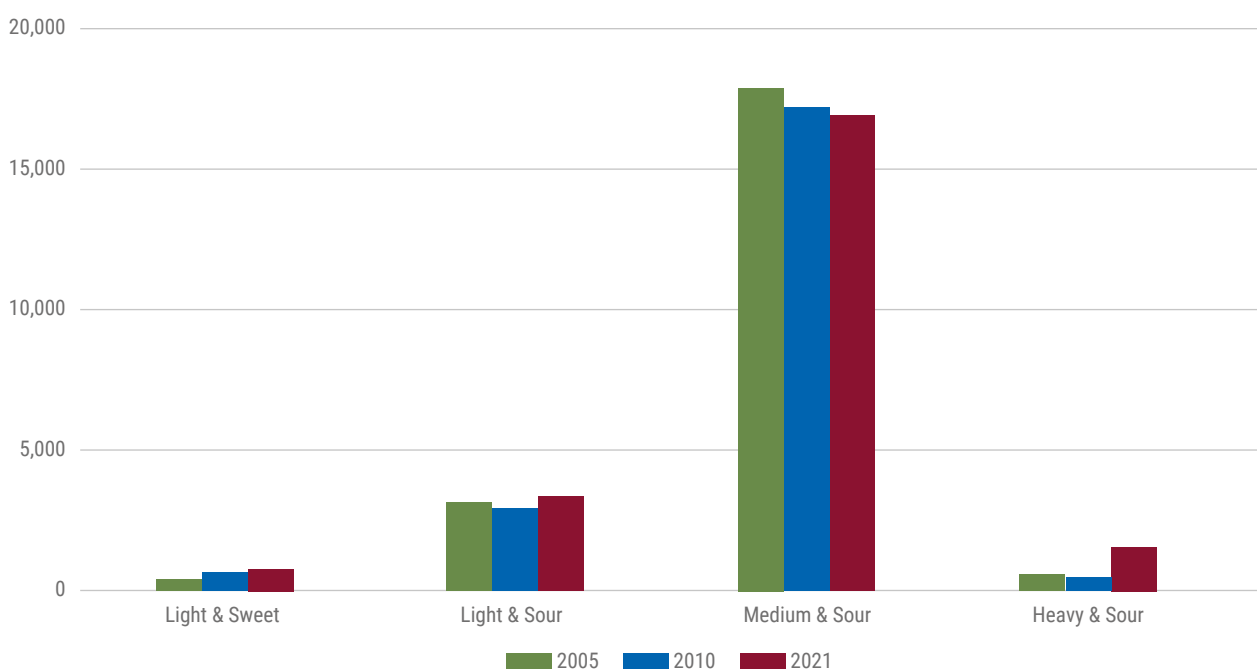
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2022) Monthly Oil Data Service data. All rights reserved.

Middle East

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Bahrain	187	182	202	202	200	197	197	171	175	
Medium & Sour	187	182	202	202	200	197	197	171	175	100.0% 100.0%
Iran	3,879	3,705	2,846	3,552	3,811	3,579	2,361	1,997	2,420	
Light & Sour					63	72	77	75	71	2.9%
Medium & Sour	3,771	3,558	2,729	3,432	3,623	3,378	2,154	1,791	2,218	96.0% 91.7%
Heavy & Sour	108	147	118	120	125	129	129	131	131	4.0% 5.4%
Iraq	1,813	2,364	4,002	4,418	4,473	4,568	4,712	4,049	4,032	
Medium & Sour	1,813	2,364	2,759	3,037	2,999	3,052	3,196	2,857	2,593	100.0% 64.3%
Heavy & Sour			1,243	1,381	1,474	1,516	1,516	1,192	1,439	35.7%
Kuwait	2,423	2,298	2,787	2,884	2,707	2,745	2,682	2,414	2,415	
Light & Sweet						57	99	126	157	6.5%
Medium & Sour	2,268	2,157	2,751	2,884	2,707	2,688	2,583	2,253	2,217	93.9% 91.8%
Heavy & Sour	1	55	140	35				35	42	6.1% 1.7%
Oman	774	865	982	1,004	971	978	971	949	971	
Medium & Sour	774	865	982	1,004	971	978	971	949	971	100.0% 100.0%
Qatar	959	1,297	1,356	1,355	1,310	1,308	1,231	1,274	1,303	
Ultra Light	185	559	705	705	701	701	636	671	689	43.1% 52.8%
Light & Sour	556	452	356	354	334	340	330	337	345	34.9% 26.5%
Medium & Sour	218	286	296	296	275	268	265	266	270	22.0% 20.7%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Middle East

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Saudi Arabia	9,353	8,177	10,160	10,416	9,958	10,326	9,943	9,210	9,123		
Light & Sweet	115	56	115	118	109	111	100	74	72	0.7%	0.8%
Light & Sour	1,076	1,101	1,331	1,397	1,459	1,518	1,580	1,507	1,533	13.5%	16.8%
Medium & Sour	8,007	6,879	8,677	8,902	8,390	8,697	8,264	7,593	7,476	84.1%	82.0%
Heavy & Sour	155	140	35					35	42	1.7%	0.5%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Syria	413	350	19	17	17	16	25	33	33		
Light & Medium Sour	228	172	9	4	3	8	13	11	11	49.2%	33.0%
Heavy & Sour	185	178	10	13	14	8	12	22	22	50.8%	67.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
United Arab Emirates	2,458	2,311	2,946	3,050	2,932	2,998	3,177	2,862	2,719		
Light & Medium Sour	1,209	1,339	1,626	1,518	1,564	1,502	1,349	1,075	944	57.9%	34.7%
Light & Sour	538	421	746	776	667	717	954	864	878	18.2%	32.3%
Medium & Medium Sour	6										
Medium & Sour	707	551	574	756	701	778	873	923	897	23.9%	33.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Yemen	400	284	28	16	44	67	67	60	60		
Light & Sweet	108	172	17	5	9	32	6	25	21	60.5%	35.1%
Medium & Medium Sour	292	112	12	11	35	35	61	36	39	39.5%	64.9%

^(*)Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Africa

Crude Production by Quality^(*)

(thousand barrels/day)

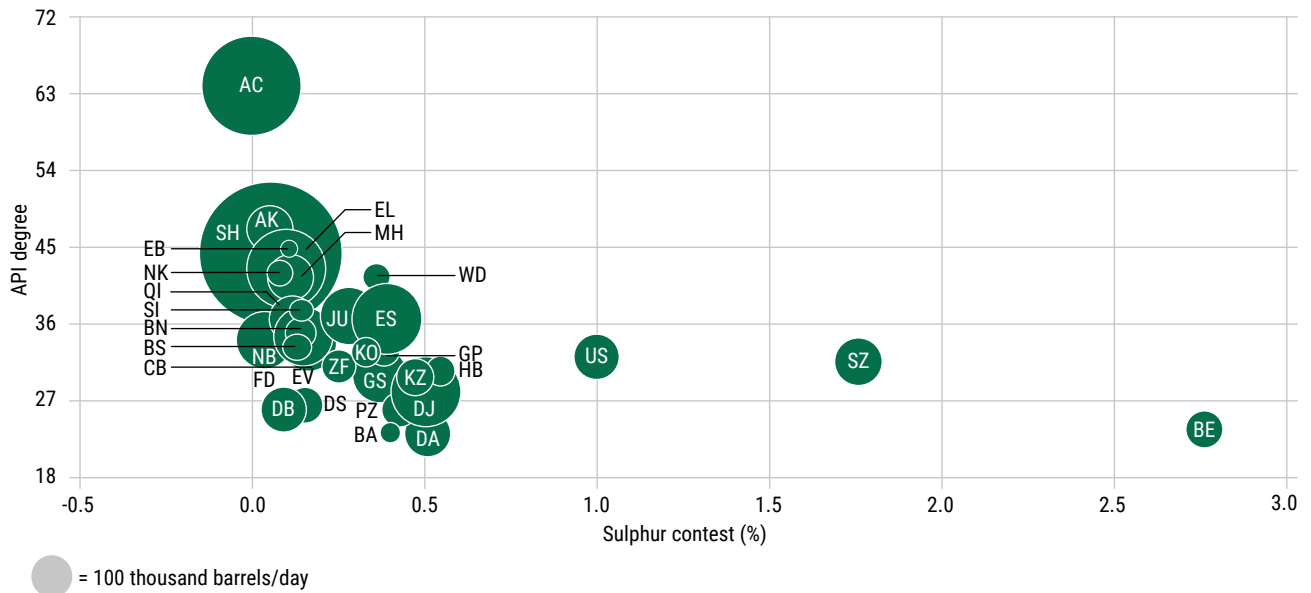
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Africa (A)	9,573	9,893	8,085	7,561	7,930	8,029	8,162	6,791	7,111		
Ultra Light	603	589	581	583	569	556	552	537	542	6.0%	7.6%
Light & Sweet	5,033	4,934	3,578	3,364	3,688	3,991	4,145	3,105	3,581	49.9%	50.4%
Light & Medium Sour		136	94	75	66	63	59	18	90	1.4%	1.3%
Light & Sour	20	33	23	20	18	16	14	13	14	0.3%	0.2%
Medium & Sweet	2,642	2,609	2,301	2,158	2,224	1,828	1,748	1,580	1,419	26.4%	20.0%
Medium & Medium Sour	293	177	143	127	110	368	509	547	508	1.8%	7.1%
Medium & Sour	530	522	551	601	676	668	650	585	573	5.3%	8.1%
Heavy & Sweet	221	422	481	406	273	271	252	215	207	4.3%	2.9%
Heavy & Medium Sour	56	317	219	205	213	183	147	106	96	3.2%	1.4%
Heavy & Sour	159	131	92		72	69	69	69	67	1.3%	0.9%
Unassigned production (B)	16	24	23	21	21	17	16	15	13	0.2%	0.2%
% unassigned production (B/A)	0	0	0	0	0	0	0	0	0		

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Africa

Quality and Production Volume of Main Crudes 2021^(*)

(thousand barrels/day)



AC Algerian Condensate (Algeria)

AK Agbami-Ekoli (Nigeria)

BA Baobab (Costa d'Avorio)

BE Belayim Blend (Egypt)

BN Bonny Light (Nigeria)

BS Nigerian Brass River (Nigeria)

CB Cabinda (Angola)

CL CLOV (Cravo, Lirio, Orquidea and Violeta)

DA Dalia Camelia (Angola)

DB Doba Blend (Chad)

DJ Djeno (Congo)

DS Dar Blend (Sudan)

EB El Borma (Tunisia)

EL El Sharara (Libya)

ES Es Sider (Libya)

EV Escravos Light (Nigeria)

FD Forcados (Nigeria)

GP Greater Plutonio (Angola)

GS Girassol (Angola)

HB Hungo Blend (KizombaA) (Angola)

JU Jubilee (Ghana)

KO Kole Blend (Cameroon)

KZ Kissanje Blend (KizombaB) (Angola)

MH Mellitah (Libya)

NE Nemba (Nigeria)

NB Nile Blend (Sudan)

NK N'Kossa (Congo)

PZ Pazflor (Angola)

QI Qua Iboe (Nigeria)

RE Rabi Light (Gabon)

SH Saharan Blend (Algeria)

SI Sarir (Libya)

ST Saturno (Angola)

SZ Suez Blend (Egypt)

WD Western Desert (Egypt)

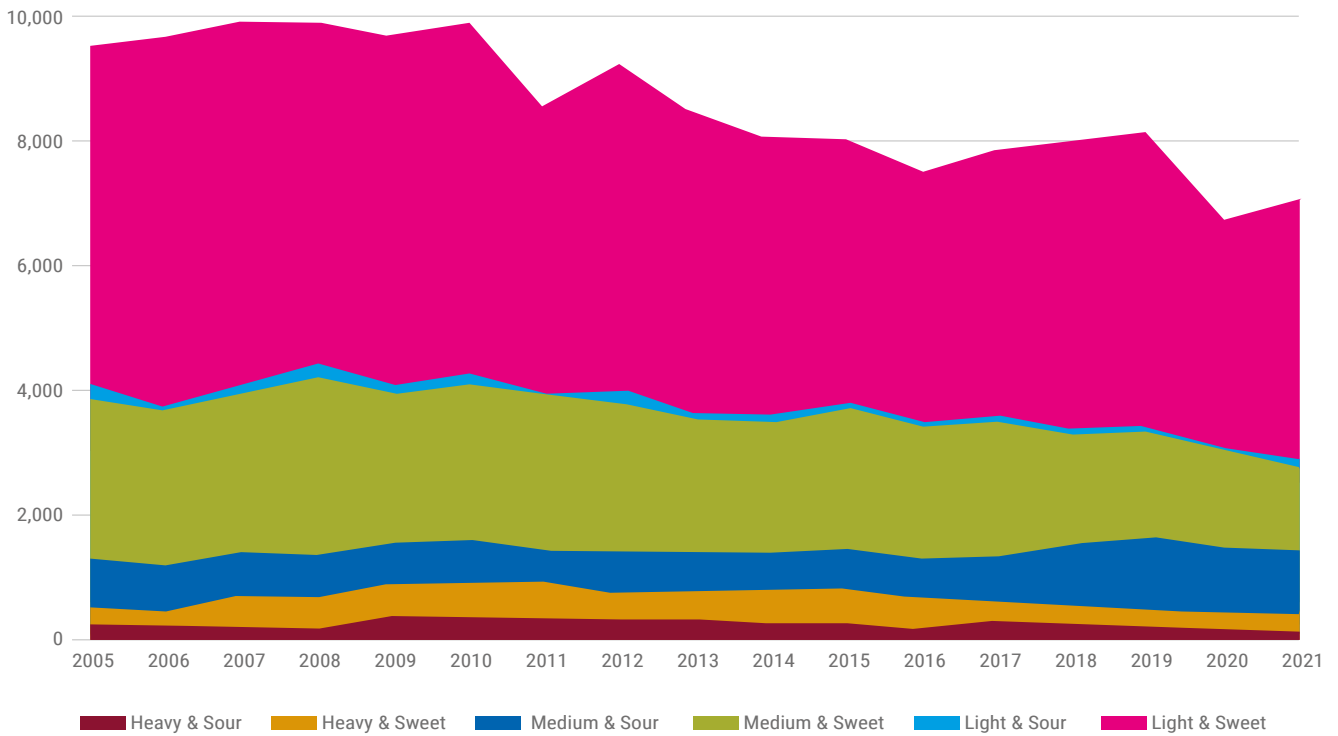
ZF Zafiro (Equatorial Guinea)

^(*) Data source: Eni.

Africa

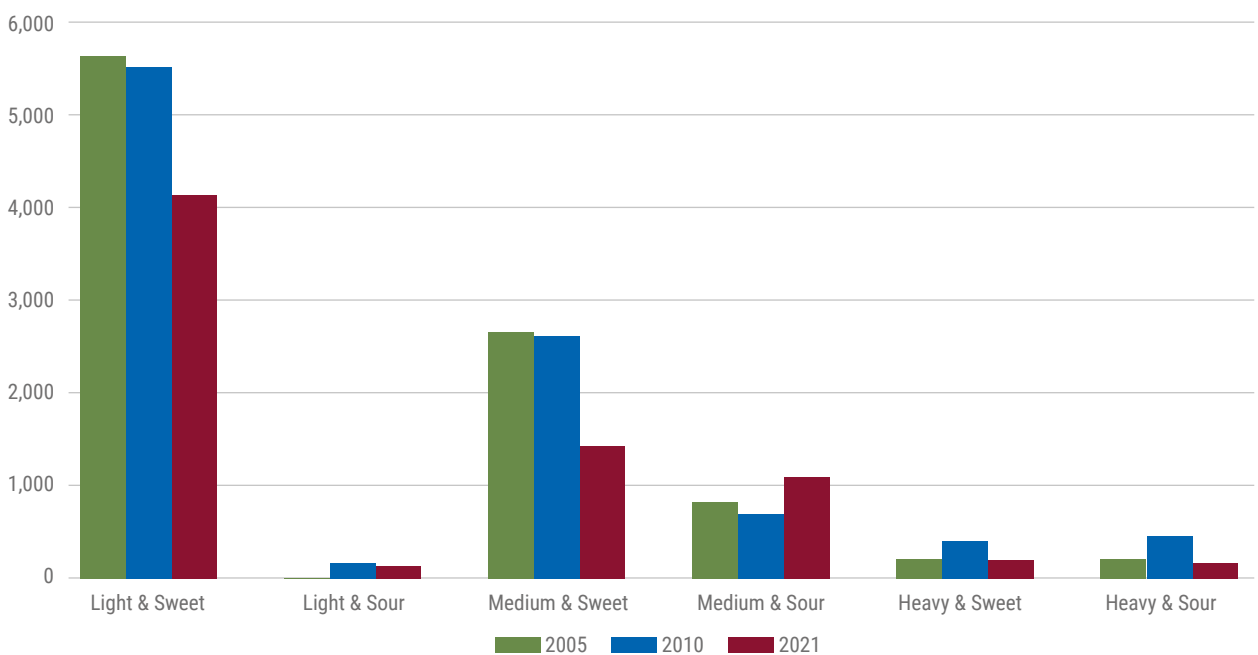
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*)Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Africa

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Algeria	1,931	1,720	1,590	1,605	1,530	1,512	1,490	1,356	1,373		
Ultra Light	603	515	481	494	483	470	466	458	462	29.9%	33.6%
Light & Sweet	1,327	1,205	1,109	1,111	1,047	1,042	1,023	898	911	70.1%	66.4%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Angola	1,228	1,739	1,760	1,708	1,642	1,491	1,389	1,270	1,124		
Light & Sweet	280	356	248	245	203	169	143	135	125	20.5%	11.1%
Medium & Sweet	657	902	988	1,045	1,057	963	820	698	594	51.9%	52.8%
Medium & Medium Sour	235	165	139	84	67	84	200	271	246	9.5%	21.9%
Heavy & Sweet		166	129	103	92	78	60		63		5.6%
Heavy & Medium Sour	56	317	219	205	213	183	147	106	96	18.2%	8.6%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Cameroon	89	64	93	92	76	69	71	73	68		
Medium & Sweet	57	36	61	54	43	38	40	44	40	57.0%	59.6%
Heavy & Sweet	32	28	31	38	33	31	32	29	27	43.0%	40.4%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Chad	170	120	139	129	112	128	118	106	96		
Heavy & Sweet	170	120	139	129	112	128	118	106	96	100.0%	100.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Congo	239	306	227	210	259	324	332	297	268		
Light & Sweet	121	89	51	62	74	87	66	52	40	29.1%	14.9%
Medium & Sweet	118	217	176	148	185					70.9%	
Medium & Medium Sour						237	266	245	228		85.1%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Cote d'Ivoire	40	39	26	32	40	33	36	28	28		
Medium & Sweet	22	15	15	13	16	13	12	8	7	39.1%	24.7%
Heavy & Sweet	18	24	11	19	24	20	24	20	21	60.9%	75.3%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Africa

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Dem. Rep. Congo	25	22	21	19	24	23	23	22	21		
Medium & Sweet	25	22	21	19	24	23	23	22	21	100.0%	100.0%
Egypt	618	664	660	629	605	617	601	565	539		
Light & Sweet	153	202	234	219	31	38	40	39	37	30.4%	6.9%
Medium & Sour	306	331	335	410	502	510	492	456	434	49.9%	80.6%
Heavy & Sour	159	131	92		72	69	69	69	67	19.7%	12.5%
Equatoria Guinea	380	311	276	231	212	208	196	190	180		
Ultra Light		74	100	90	86	86	86	79	80	23.9%	44.8%
Light & Sweet	75										
Medium & Sweet	263	237	176	102	86	80	72	84	69	76.1%	38.6%
Medium & Medium Sour	42			40	39	42	38	27	30		16.6%
Gabon	270	249	230	227	200	190	212	198	182		
Light & Sweet	89	105					94	88	80	42.2%	44.2%
Medium & Sweet	53	31	115	124	111	105	24	22	20	12.6%	11.2%
Medium & Sour	128	113	114	103	89	85	95	88	81	45.2%	44.5%
Ghana	6	7	106	92	157	177	206	194	160		
Light & Sweet	6	7	106	92	157	177	206	194	160	100.0%	100.0%
Libya	1,640	1,550	402	391	827	971	1,087	354	1,146		
Light & Sweet	1,543	1,335	211	234	681	839	968	300	1,001	86.1%	87.4%
Light & Medium Sour		136	94	75	66	63	59	18	90	8.8%	7.9%
Medium & Sour	97	79	97	82	81	69	59	36	55	5.1%	4.8%

^(*)Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Africa

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Nigeria	2,546	2,535	2,231	1,913	1,970	2,015	2,108	1,864	1,666		
Light & Sweet	1,403	1,601	1,602	1,385	1,482	1,624	1,591	1,389	1,213	63.2%	72.8%
Medium & Sweet	1,143	934	629	528	488	391	517	475	453	36.8%	27.2%
Heavy & Sweet											
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Sudan	305	465	253	218	215	216	241	226	214		
Medium & Sweet	305	214	119	126	215	216	241	226	214	46.0%	100.0%
Heavy & Sweet		251	134	92						54.0%	
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Tunisia	71	79	49	46	40	38	35	33	34		
Light & Sweet	35	34	18	16	14	13	12	12	13	43.3%	37.9%
Light & Sour	20	33	23	20	18	16	14	13	14	41.4%	42.0%
Medium & Medium Sour	16	12	4	4	4	4	4	4	3	15.2%	8.9%
Medium & Sour			4	6	4	5	5	4	4		11.2%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Asia - Pacific

Crude Production by Quality^(*)

(thousand barrels/day)

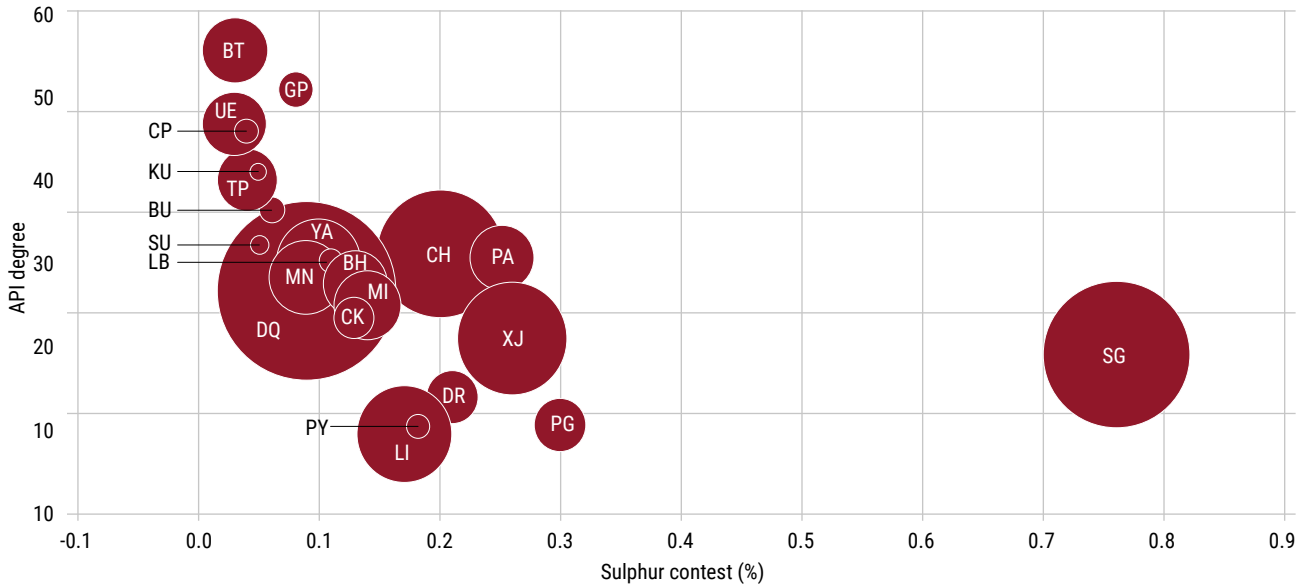
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Asia - Pacific (A)	7,518	7,836	7,729	7,375	7,106	6,923	6,929	6,766	6,708		
Ultra Light	597	698	544	509	530	561	616	552	554	8.9%	8.3%
Light & Sweet	2,549	2,160	1,981	2,445	2,445	2,435	2,419	2,225	2,008	27.6%	29.9%
Light & Medium Sour	33				24	23	31	30	31		0.5%
Light & Sour		35	32								0.4%
Medium & Sweet	2,901	3,640	3,999	3,195	2,962	2,801	2,780	2,863	3,018	46.5%	45.0%
Medium & Medium Sour	536	554	547	480	472	471	453	453	450	7.1%	6.7%
Medium & Sour	63	56	62	86	59	58	56	56	57	0.7%	0.9%
Heavy & Sweet	795	643	510	609	567	529	534	546	552	8.2%	8.2%
Heavy & Medium Sour											
Heavy & Sour											
Unassigned production (B)	45	49	54	52	48	45	42	41	39	0.6%	0.6%
% Unassigned production (B/A)	1	1	1	1	1	1	1	1	1		

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Asia - Pacific

Quality and Production Volume of Main Crudes 2021^(*)

(thousand barrels/day)



● = 100 thousand barrels/day

BH Bach Ho (Vietnam)
BT Bintulu Condensate (Malaysia)
BU Brunei Light (Brunei)
CE Cepu (Indonesia)
CH Changqing (ordos - yangchang) (China)
CK Cossack (Australia)
CM Champion (Brunei)
DQ Daqing (China)

DR Duri (Sumatran Heavy) (Indonesia)
GP Gippsland (Australia)
KU Kutubu Blend (Papua N. G.)
LB Labuan (Malaysia)
LI Liaohe (China)
MI Miri (Malaysia)
MN Minas (Sumatran Light) (Indonesia)
PA Panyu (China)

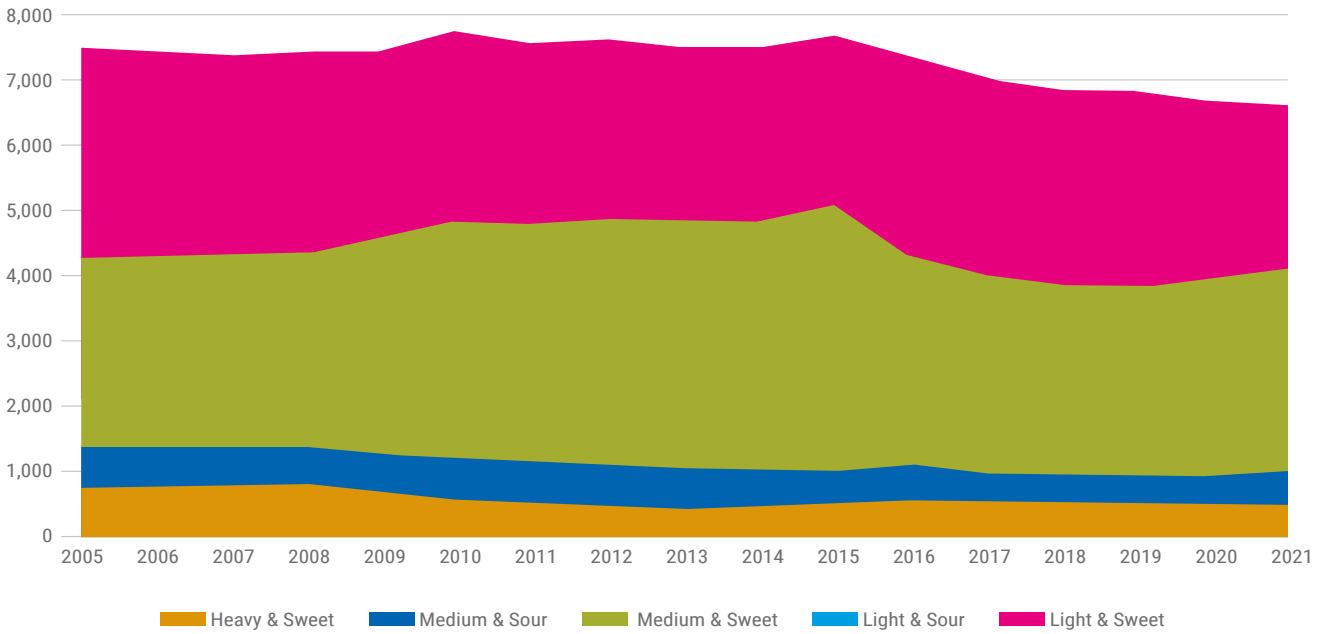
PG Peng Lai (China)
PY Pyrenees (Australia)
SG Shengli (China)
SU Su Tu Den (Vietnam)
TP Tapis (Malaysia)
XJ Xinjang (China)
YA Yanchang (China)
UE UEPL (Pakistan)

^(*) Data source: Eni.

Asia - Pacific

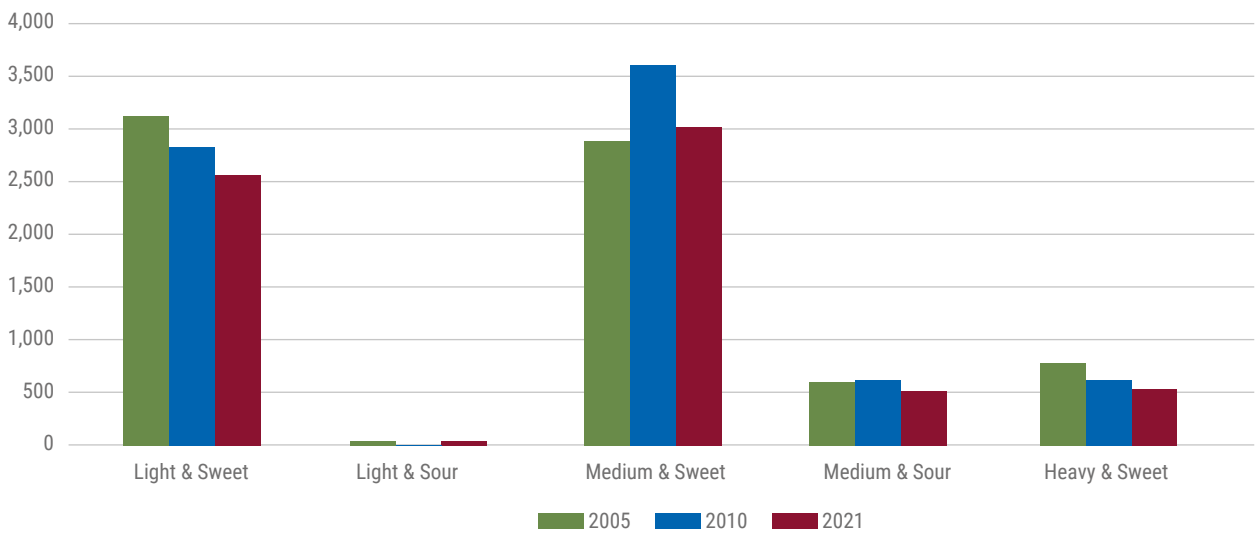
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*)Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Asia - Pacific

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Australia	456	479	322	290	263	284	361	351	341		
Ultra Light	139	221	155	167	156	199	257	243	250	46.1%	73.2%
Light & Sweet	317	121	78	50	48	51	60	52	35	25.3%	10.2%
Heavy & Sweet		137	89	73	59	34	44	57	57	28.6%	16.6%
Heavy & Medium Sour											
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Brunei	206	169	127	121	113	111	121	110	109		
Ultra Light	18	16	11	12	13	12	11	10	9	9.5%	8.4%
Light & Sweet	149	118	14	10	49	10	71	62	61	69.9%	56.2%
Medium & Sweet	3	35	101	99	51	89	39	38	38	20.6%	35.4%
Heavy & Sweet	36										
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
China	3,594	4,020	4,222	3,910	3,788	3,716	3,768	3,832	3,931		
Light & Sweet	395	318	273	711	705	790	812	757	599	7.9%	15.2%
Light & Medium Sour	33				24	23	31	30	31		0.8%
Light & Sour		35	32								0.9%
Medium & Sweet	2,112	2,759	3,039	2,221	2,118	1,963	1,994	2,111	2,361	68.6%	60.1%
Medium & Medium Sour	536	554	547	480	472	471	453	453	450	13.8%	11.4%
Medium & Sour	63	56	62	86	59	58	56	56	57	1.4%	1.5%
Heavy & Sweet	454	298	269	413	410	411	422	425	434	7.4%	11.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
East Timor	89	88	45	30	21	15	23	14	14		
Ultra light	89	88	45	30	21	15	23	14	14	100.0%	100.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
India	663	755	764	737	737	712	670	630	615		
Light & Sweet	568	657	676	651	647	623	585	549	534	87.1%	86.7%
Medium & Sweet	27	95	87	85	89	89	84	80	81	12.6%	13.1%
Heavy & Sweet	67	3	1	1	1	1	1	1	1	0.3%	0.2%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Asia - Pacific

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Indonesia	1,061	945	776	831	795	770	745	708	658	
Ultra Light	162	166	126	100	97	96	90	86	81	17.5% 12.4%
Light & Sweet	341	336	264	290	269	261	249	216	172	35.5% 26.1%
Medium & Sweet	321	238	235	319	332	330	340	343	345	25.2% 52.4%
Heavy & Sweet	238	206	150	122	97	83	67	64	61	21.8% 9.2%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Malaysia	726	638	654	667	660	653	604	541	506	
Ultra Light	85	98	70	65	106	112	103	83	88	15.4% 17.5%
Light & Sweet	435	228	293	349	361	360	321	280	319	35.7% 63.1%
Medium & Sweet	207	312	291	253	193	181	180	178	98	48.9% 19.4%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
New Zealand	19	55	41	35	31	24	24	21	18	
Light & Sweet	19	38	29	25	23	18	18	15	13	70.1% 73.6%
Medium & Sweet		16	12	9	8	6	6	5	5	29.9% 26.4%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Pakistan	65	65	86	88	89	88	86	84	82	
Light & Sweet	65	65	86	88	89	88	86	84	82	100.0% 100.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Papua New Guinea	54	32	58	56	50	36	35	39	37	
Ultra Light	34	21	40	41	38	28	29	32	31	65.2% 83.9%
Light & Sweet	19	11	17	15	12	8	6	7	6	34.8% 16.1%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Thailand	183	242	248	258	240	228	228	202	177	
Ultra Light	70	89	96	95	99	99	102	85	80	36.6% 44.9%
Light & Sweet	114	153	152	163	141	129	126	117	98	63.4% 55.1%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)
Vietnam	358	299	332	301	271	241	221	193	180	
Light & Sweet	127	114	98	92	101	97	84	86	90	38.2% 49.9%
Medium & Sweet	231	185	234	210	170	144	137	107	90	61.8% 50.1%

^(*)Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Americas

Crude Production by Quality^(*)

(thousand barrels/day)

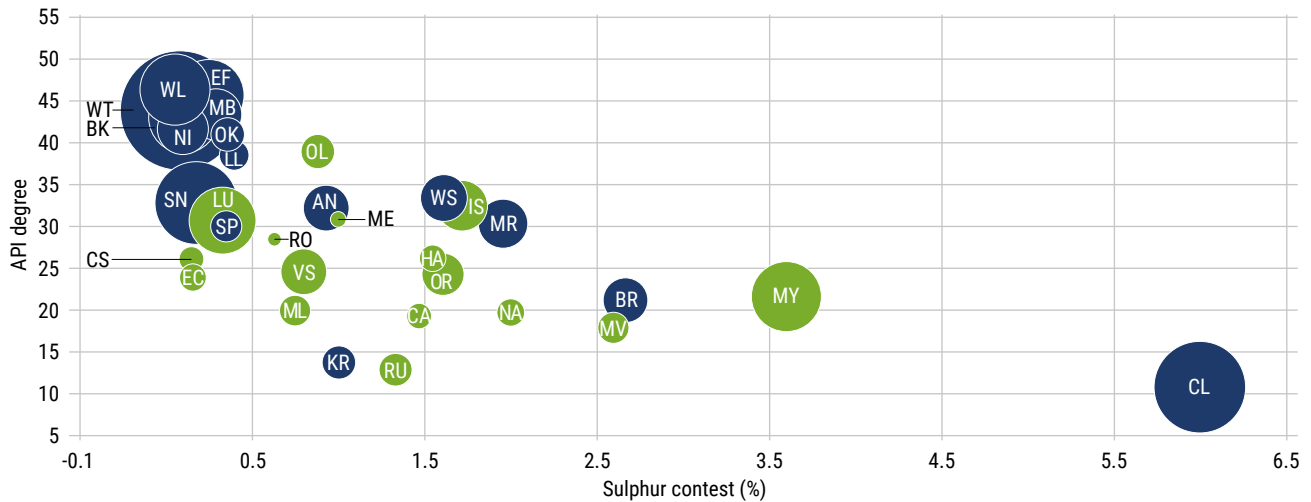
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Americas (A)	17,474	17,644	22,792	21,774	22,155	23,368	24,446	22,867	23,120		
Ultra Light	181	166	662	672	609	616	659	610	565	0.9%	2.4%
Light & Sweet	2,579	2,911	6,540	5,840	6,332	7,925	9,088	8,303	8,255	16.5%	35.7%
Light & Medium Sour	187	368	315	302	242	240	189	227	249	2.1%	1.1%
Light & Sour											
Medium & Sweet	1,490	1,593	2,329	2,506	2,863	3,057	3,584	3,737	3,740	9.0%	16.2%
Medium & Medium Sour	1,166	1,316	902	1,038	1,082	1,089	1,081	1,068	1,045	7.5%	4.5%
Medium & Sour	3,622	3,560	3,408	3,185	3,121	2,779	2,575	2,209	2,280	20.2%	9.9%
Heavy & Sweet	532	555	476	432	405	383	362	319	300	3.1%	1.3%
Heavy & Medium Sour	1,760	1,957	2,134	1,911	1,780	1,709	1,575	1,481	1,488	11.1%	6.4%
Heavy & Sour	5,606	4,925	5,760	5,656	5,490	5,347	5,117	4,653	4,903	27.9%	21.2%
Unassigned production (B)	351	293	267	231	231	223	215	261	296	1.7%	1.3%
% Unassigned production (B/A)	2	2	1	1	1	1	1	1	1		

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Americas

Quality and Production Volume of Main Crudes 2021^(*)

(thousand barrels/day)



● = 100 thousand barrels/day

AN Alaskan North Slope (U.S.A.)

BK Bakken Blend (U.S.A.)

BR Bow River (Alberta H.) (Canada)

CA Castilla (Colombia)

CL Cold Lake (Alberta bt.) (Canada)

CN Cerro Negro - Petromonagas (Venezuela)

CS Canadon Seco (Argentina)

EC Escalante (Argentina)

EF Eagle Ford (U.S.A.)

HA Hamaca-Petroprariar (Venezuela)

SN Syncrude (Canada)

IS Isthmus Crudo (Mexico)

KR Kern River (U.S.A.)

LL LLS Louisiana Light Sweet (U.S.A.)

LU Lula (ex Tupi) (Brazil)

MB Mixed Blend Sweet (Canada)

MD Medanito (Argentina)

ME Mesa (light sour) (Venezuela)

ML Marlim (Brazil)

MR Mars (U.S.A.)

MV Merey (heavy sour conv) (Venezuela)

MY Maya Crudo (Mexico)

NA Napo (OCP) (Ecuador)

NI Niobrara (U.S.A.)

OK Oklahoma sweet (U.S.A.)

OL Olmeca (Mexico)

OR Oriente (SOTE) (Ecuador)

PE Sincor-Petrocedeno (Venezuela)

PR Peregrino (Brazil)

PP Petrozuata-Petroanzoategui (Venezuela)

RO Roncador (Brazil)

RU Rubiales (Colombia)

SP Sapinhoa (Brazil)

VS Vasconia (Colombia)

WL WTL West Texas Light (USA)

WS WTS West Texas Sour (U.S.A.)

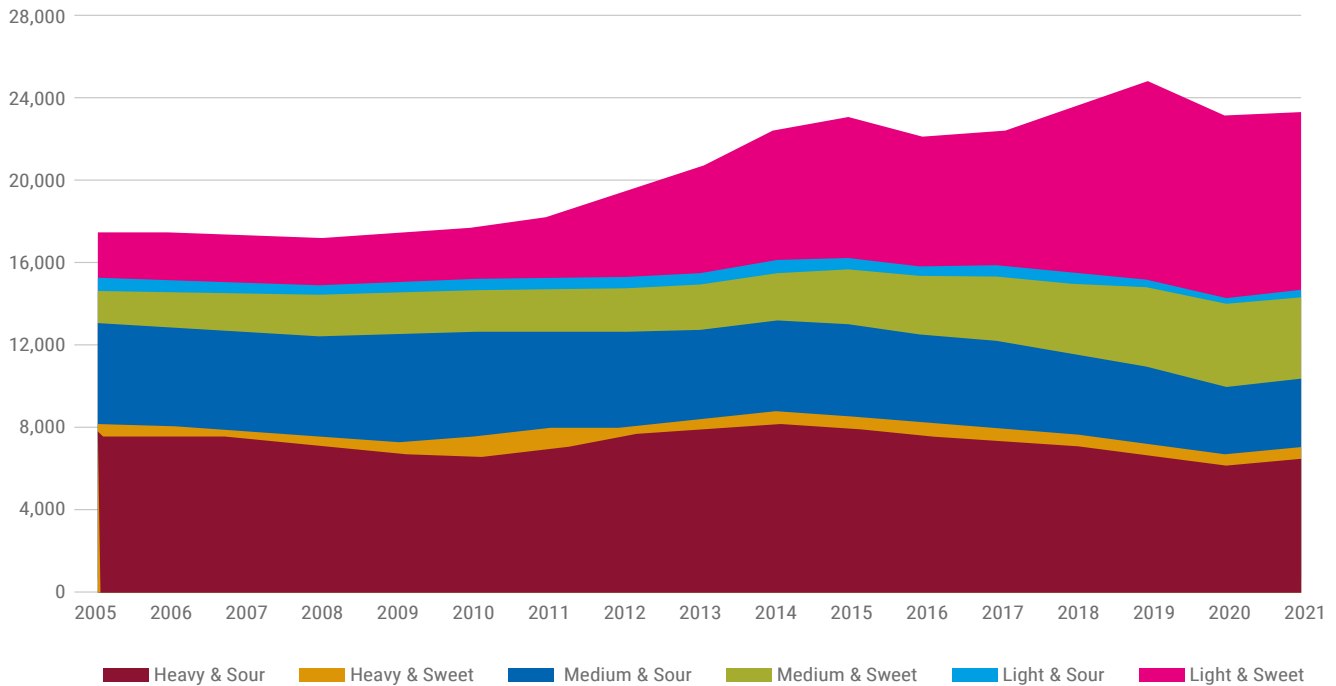
WT WTI West Texas Int. (U.S.A.)

^(*) Data source: Eni.

Americas

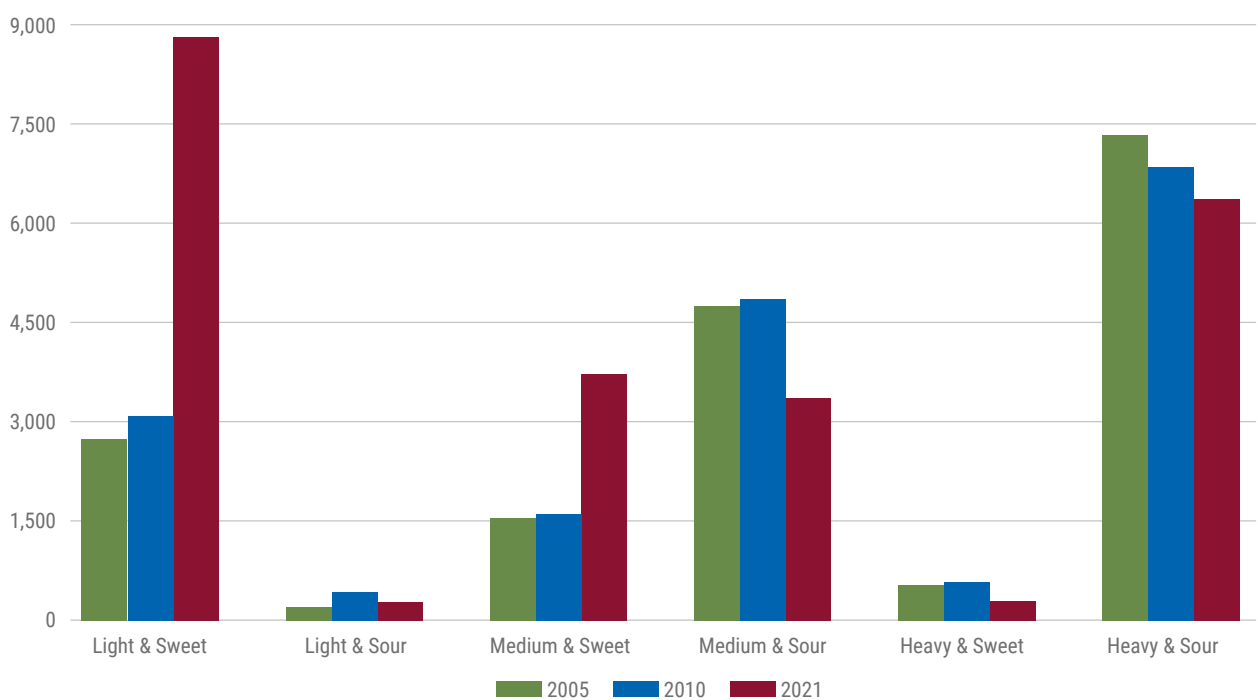
Crude Production by Quality^(*)

(thousand barrels/day)



Crude Production by Quality^(*)

(selected years, thousand barrels/day)



^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Americas

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Argentina	665	589	532	511	480	489	509	480	514		
Ultra light	38	22	21	22	22	23	26	26	28	3,7%	5,4%
Light & Sweet	94	85	77	73	69	70	72	68	73	14,5%	14,2%
Medium & Sweet			21	27	35	55	89	108	152		29,6%
Heavy & Sweet	532	483	414	388	354	342	321	279	261	81,9%	50,8%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Brazil	1,639	2,063	2,451	2,525	2,638	2,599	2,788	2,937	2,907		
Light & Sweet			6	5	4	3	2	7	0		0.0%
Light & Medium Sour	43	49	38	36	32	33	32	28	23	2.4%	0.8%
Medium & Sweet		0	581	813	1,042	1,169	1,504	1,750	1,731		59.5%
Medium & Medium Sour	282	451	127	143	126	115	172	164	162	21.9%	5.6%
Heavy & Sweet		72	62	44	50	41	41	40	39	3.5%	1.3%
Heavy & Medium Sour	1,314	1,472	1,559	1,416	1,311	1,170	970	920	937	71.4%	32.2%
Heavy & Sour		19	79	69	72	68	68	29	14	0.9%	0.5%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Canada	2,456	2,850	3,828	3,823	4,151	4,504	4,649	4,400	4,618		
Light & Sweet	729	678	669	574	586	640	639	551	538	23.8%	11.7%
Medium & Sweet	757	1,047	1,197	1,193	1,333	1,399	1,525	1,507	1,526	36.7%	33.0%
Medium & Medium Sour			127	169	176	144	133	118	99		2.1%
Heavy & Medium Sour					2	62	112	141	139		3.0%
Heavy & Sour	971	1,125	1,836	1,887	2,054	2,259	2,240	2,083	2,316	39.5%	50.2%
<i>Memo: Syncrude production is included in Medium & Sweet</i>	651	926	1,151	1,152	1,290	1,374	1,508	1,482	1,506	32.5%	293.0%
<i>Memo: bitumen production is included in Heavy & Sour</i>	445	697	1,406	1,485	1,648	1,856	1,837	1,718	1,921	24.4%	373.8%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Colombia	526	786	1,006	898	854	865	886	781	737		
Light & Sweet		15	5	5	4	3	2	2		2.0%	
Medium & Sweet	73	60	40							7.7%	
Medium & Medium Sour				40	36	36	36	29	8		1.1%
Heavy & Medium Sour	445	484	575	495	467	477	494	420	412	61.6%	56.0%
Heavy & Sour	8	226	385	357	347	349	354	330	316	28.8%	42.9%

^(*)Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.

Americas

Countries^(*)

(thousand barrels/day)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Share of total (2010) (2021)	
Ecuador	532	466	541	549	531	517	531	479	472		
Heavy & Sour	532	466	541	549	531	517	531	479	472	100.0%	100.0%
Mexico	3,333	2,577	2,267	2,154	1,948	1,831	1,705	1,716	1,780		
Light & Medium Sour	144	320	277	266	210	208	157	199	226	12.4%	12.7%
Medium & Sour	802	834	838	785	689	552	483	472	539	32.4%	30.3%
Heavy & Sour	2,387	1,423	1,152	1,103	1,049	1,071	1,064	1,045	1,015	55.2%	57.0%
United States	5,184	5,484	9,441	8,844	9,357	10,940	12,289	11,283	11,185		
Ultra light	11	49	547	564	540	585	633	584	537	0.9%	4.8%
Light & Sweet	1,756	2,132	5,783	5,182	5,668	7,209	8,371	7,675	7,643	38.9%	68.3%
Medium & Sweet	505	371	381	375	362	372	430	372	330	6.8%	3.0%
Medium & Medium Sour	885	865	648	686	744	705	687	718	733	15.8%	6.6%
Medium & Sour	1,390	1,498	1,533	1,519	1,542	1,634	1,739	1,547	1,566	27.3%	14.0%
Heavy & Sour	637	569	548	517	501	435	428	387	375	10.4%	3.4%
Venezuela	2,788	2,535	2,460	2,239	1,966	1,398	874	529	611		
Ultra light	131	96	94	86	48	8				3.8%	
Medium & Sweet	156	114	109	98	91	61	36			4.5%	
Medium & Medium Sour						89	53	39	42		6.9%
Medium & Sour	1,429	1,228	1,037	881	891	592	352	190	175	48.4%	28.6%
Heavy & Sour	1,071	1,097	1,220	1,173	936	647	433	300	395	43.3%	64.6%

^(*) Data source: Eni's elaborations on IEA (2022) *Monthly Oil Data Service* data. All rights reserved.



Oil - Refining Industry



REFINING CAPACITY

Areas and Aggregates

Refining Capacity

Areas and Aggregates^(*)

2005	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio	
					FCC eqv. (%)	NCI
Europe	137	873	17,476	280	34%	8.7
Russia and Central Asia	61	370	7,438	63	17%	6.7
Middle East	47	361	7,319	61	17%	5.5
Africa	46	158	3,152	27	17%	5.6
Asia - Pacific	260	1,236	24,765	536	43%	7.3
Americas	253	1,358	27,174	862	63%	10.0
- North America	175	1,034	20,686	716	69%	11.2
- Central South America	78	324	6,488	146	45%	7.2
World	804	4,355	87,324	1,828	43%	8.2

2010	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio	
					FCC eqv. (%)	NCI
Europe	128	840	16,812	290	37%	8.9
Russia and Central Asia	66	378	7,612	66	18%	6.9
Middle East	58	393	8,003	79	20%	6.0
Africa	46	159	3,189	28	17%	5.7
Asia - Pacific	298	1,485	29,792	781	53%	8.2
Americas	242	1,353	27,087	881	65%	10.6
- North America	167	1,034	20,688	729	70%	11.6
- Central South America	75	319	6,399	152	47%	7.4
World	838	4,609	92,495	2,125	47%	8.7

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

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

Refining Capacity

Areas and Aggregates^(*)

2015	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio	
					FCC eqv. (%)	NCI
Europe	113	772	15,443	293	41%	9.2
Russia and Central Asia	70	414	8,350	79	19%	7.0
Middle East	58	441	8,950	118	27%	6.8
Africa	48	159	3,195	32	20%	6.1
Asia - Pacific	325	1,717	34,448	1,020	59%	9.0
Americas	239	1,366	27,350	922	67%	10.9
- North America	164	1,070	21,417	777	73%	11.8
- Central South America	75	296	5,933	145	49%	7.7
World	853	4,868	97,736	2,464	51%	9.1

2021	Refineries (no.)	Primary Capacity (mmtons)	Primary Capacity (kbb/d)	Conversion Capacity (FCC eqv.) (mmtons)	Complexity Ratio	
					FCC eqv. (%)	NCI
Europe	109	751	15,027	314	44%	9.4
Russia and Central Asia	72	435	8,758	130	30%	8.0
Middle East	64	553	11,300	157	28%	7.3
Africa	52	150	3,014	36	24%	6.4
Asia - Pacific	312	1,871	37,610	1,244	66%	10.1
Americas	233	1,367	27,385	913	67%	10.8
- North America	160	1,058	21,203	748	71%	11.6
- Central South America	73	309	6,182	165	53%	8.0
World	842	5,126	103,094	2,816	55%	9.6

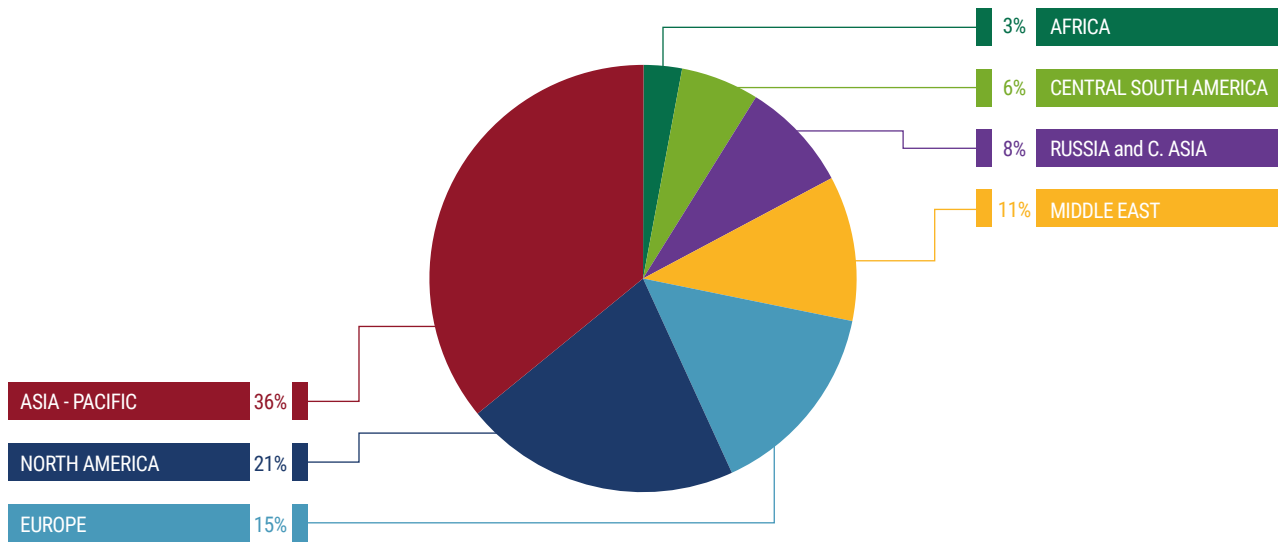
^(*) Data source: Eni's calculations on Icis Consulting data.

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

Refining Capacity

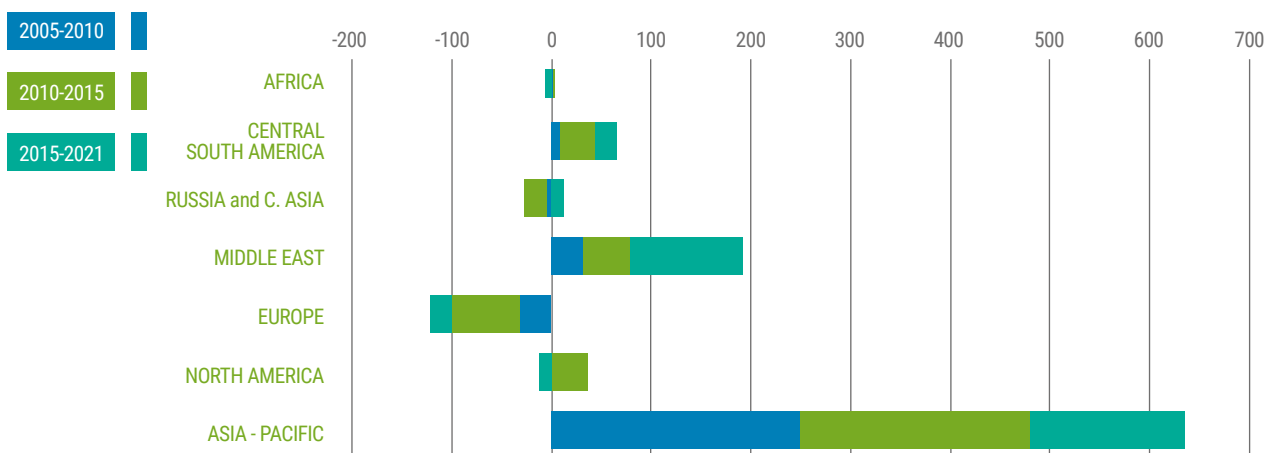
World Primary Capacity (2021)

5,126 million tons



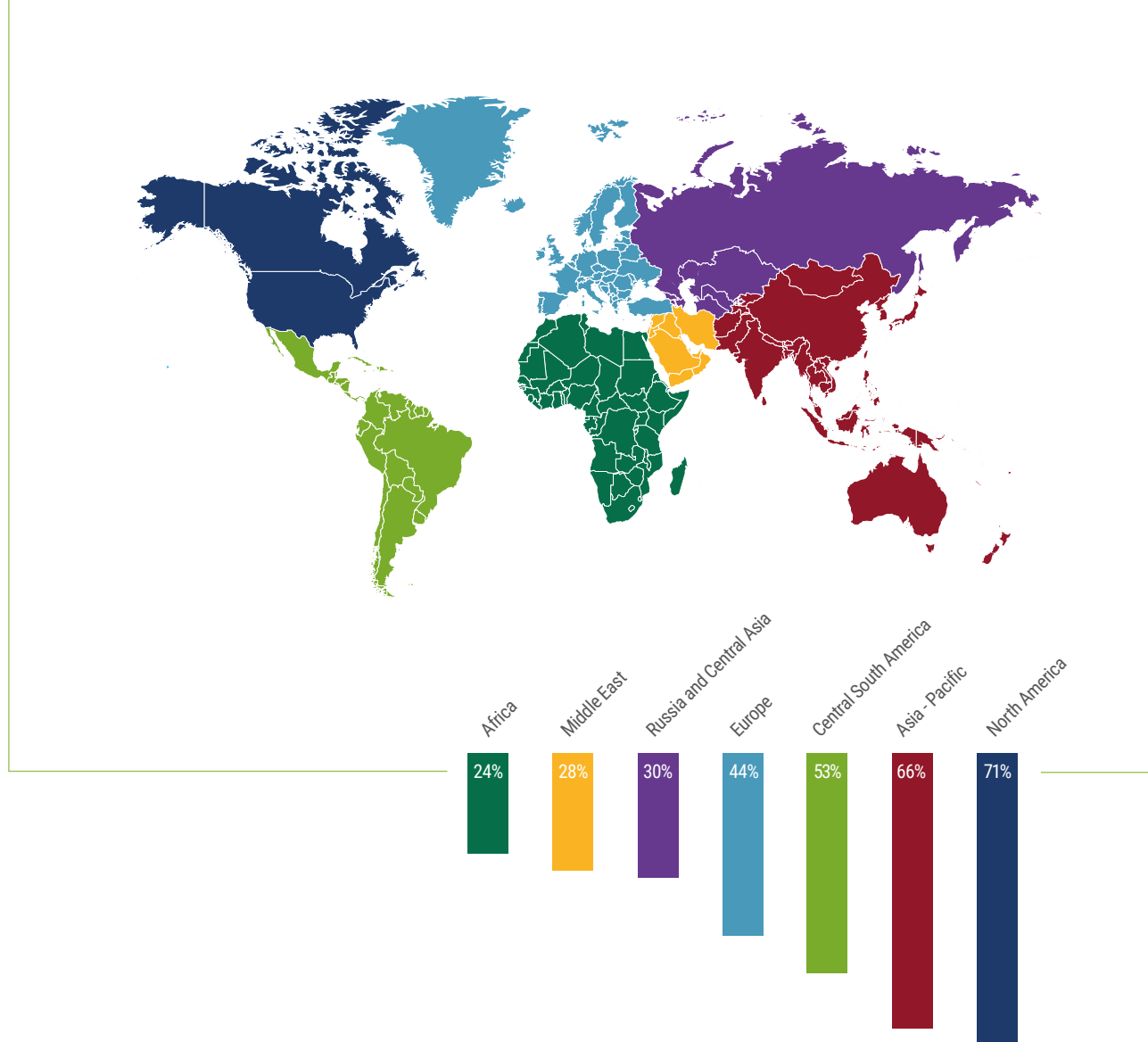
World Primary Capacity Growth (2005-2021)

771 million tons



Refining Capacity

2021 Complexity ratio (FCC eqv.%)



Natural Gas - Supply and Demand

RESERVES

Areas and Aggregates
The World Top 10 Reserves Holders
Countries

PRODUCTION

Areas and Aggregates
The World Top 10 Producers
Countries

RESERVES/PRODUCTION RATIO

Areas and Aggregates
The World Top 10 Producers Ranked by Reserves/Production Ratio
Countries

CONSUMPTION

Areas and Aggregates
The World Top 10 Consumers
Countries

PER CAPITA CONSUMPTION

Areas and Aggregates
The World Top 10 Consumers Ranked by Per Capita Consumption Ratio
Countries

PRODUCTION/CONSUMPTION RATIO

Areas and Aggregates
The World Top 10 Producers Ranked by Production/Consumption Ratio
Countries

Reserves

Areas and Aggregates^(*)

(billion cubic metres as at 31st December)

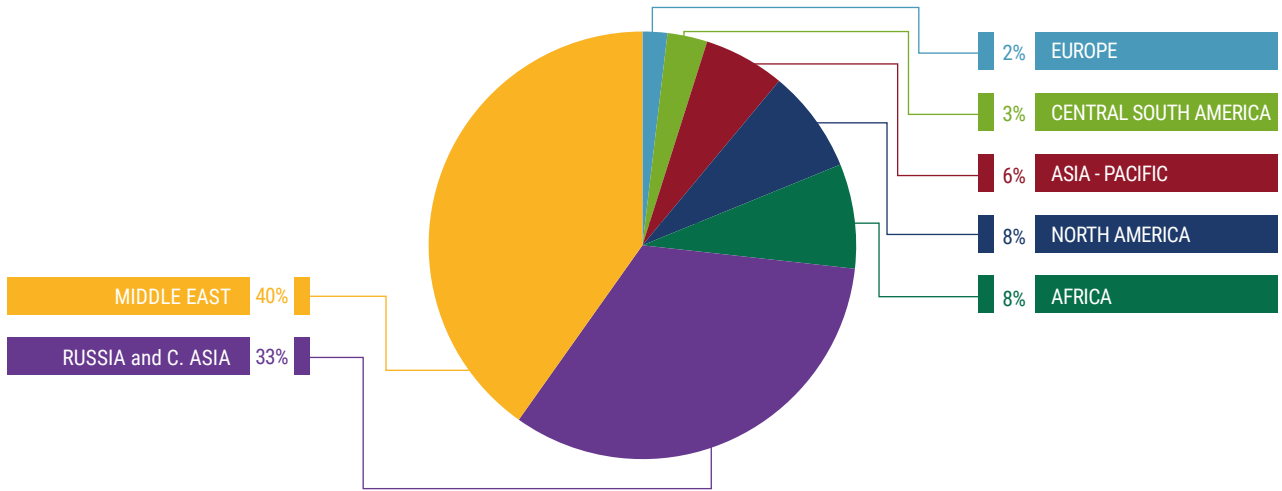
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	7,103	6,038	4,941	4,691	4,531	3,998	3,877	3,774	3,768	-0.2%	-4.2%
Russia and Central Asia	51,087	60,900	73,816	74,205	74,485	73,894	73,959	77,126	66,373	-13.9%	0.8%
Middle East	72,513	78,963	79,263	80,271	80,177	80,571	81,013	81,359	80,665	-0.9%	0.2%
Africa	14,163	14,493	14,594	15,042	15,314	15,370	15,439	15,467	15,888	2.7%	0.8%
Asia - Pacific	13,259	15,683	15,503	14,982	14,637	14,445	14,348	13,277	12,331	-7.1%	-2.2%
Americas	14,618	18,446	18,769	19,060	22,223	22,960	22,719	22,250	23,153	4.1%	2.1%
- North America	7,419	10,597	10,880	11,216	14,491	15,445	15,232	14,813	15,642	5.6%	3.6%
- Central South America	7,199	7,849	7,889	7,844	7,732	7,515	7,487	7,437	7,511	1.0%	-0.4%
World	172,742	194,524	206,887	208,251	211,367	211,239	211,355	213,253	202,179	-5.2%	0.4%
European Union 27	2,217	1,771	1,249	1,136	1,075	577	517	517	461	-10.8%	-11.5%
MENA	80,468	87,240	87,424	88,567	88,472	88,866	89,308	89,654	88,948	-0.8%	0.2%
OECD	16,302	20,030	18,649	18,950	22,097	22,456	22,140	21,633	21,954	1.5%	0.8%
NON OECD	156,440	174,494	188,239	189,301	189,270	188,783	189,215	191,620	180,225	-5.9%	0.3%
OPEC	61,261	69,315	70,783	72,052	72,260	72,666	73,135	73,643	73,135	-0.7%	0.5%
NON OPEC	111,481	125,209	136,104	136,199	139,106	138,573	138,220	139,610	129,044	-7.6%	0.3%

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

Reserves

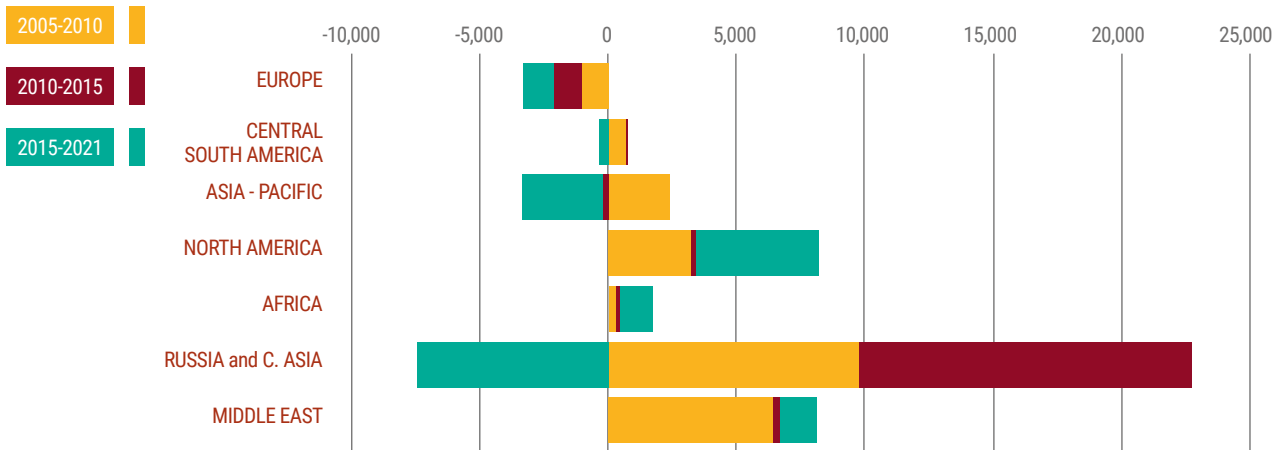
World Natural Gas Reserves (2021)

202,179 billion cubic metres as at 31st December



World Natural Gas Reserves Growth (2005-2021)

29,437 billion cubic metres as at 31st December



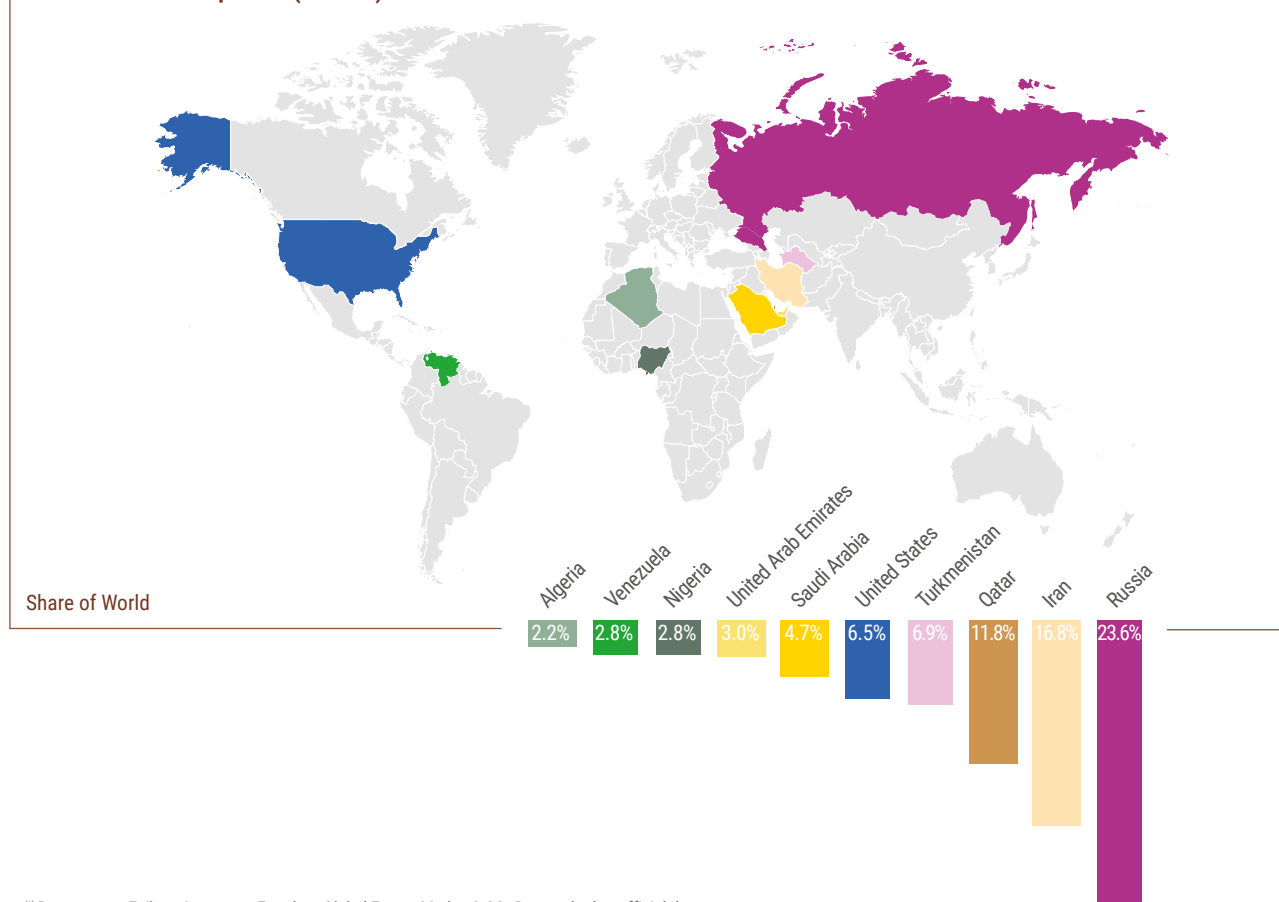
Reserves

The World Top 10 Reserves Holders^(*)

(billion cubic metres as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia	44,860	46,000	50,249	50,660	50,551	49,620	49,203	49,203	47,808	-2.8%	0.4%
Iran	27,580	33,090	33,500	33,721	33,810	33,899	33,988	34,077	33,988	-0.3%	0.2%
Qatar	25,636	25,201	24,299	24,073	23,861	23,846	23,831	23,831	23,831	0.0%	-0.5%
Turkmenistan	2,601	11,332	19,486	19,486	19,486	19,486	19,486	22,269	13,950	-37.4%	1.9%
United States	5,787	8,620	8,709	9,119	12,408	13,437	13,171	12,702	13,171	3.7%	3.9%
Saudi Arabia	6,900	8,016	8,588	8,619	8,715	9,069	9,423	9,791	9,423	-3.8%	1.5%
United Arab Emirates	6,060	6,090	6,090	6,090	6,090	6,090	6,090	6,090	6,090	0.0%	0.0%
Nigeria	5,154	5,110	5,284	5,475	5,627	5,675	5,761	5,848	5,761	-1.5%	1.1%
Venezuela	4,309	5,521	5,698	5,736	5,707	5,674	5,674	5,674	5,674	0.0%	0.2%
Algeria	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	0.0%	0.0%
The World Top 10	133,391	153,484	166,407	167,483	170,758	171,300	171,131	173,990	164,200	-5.6%	0.6%
Rest of the World	39,351	41,040	40,481	40,768	40,608	39,939	40,224	39,263	37,979	-3.3%	-0.7%
World	172,742	194,524	206,887	208,251	211,367	211,239	211,355	213,253	202,179	-5.2%	0.4%

The World Top 10 (2021)



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

Reserves

Countries^(*)

(billion cubic metres as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	7,103	6,038	4,941	4,691	4,531	3,998	3,877	3,774	3,768	-0.2%	-4.2%
Albania	0	0	0	0	0	1	1	1	1	0.0%	23.3%
Austria	21	15	9	8	8	7	6	6	5	-3.4%	-8.6%
Belarus	1	1	1	1	1	1	1	1	1	0.0%	-6.1%
Bulgaria	3	5	4	4	4	4	4	4	4	0.0%	-1.6%
Croatia	30	25	11	10	9	6	6	6	5	-19.1%	-14.0%
Czech Republic	3	3	3	3	3	3	3	3	3	-0.9%	0.9%
Denmark	122	101	80	77	72	69	66	66	65	-2.3%	-4.0%
France	7	5	9	9	9	9	9	8	9	2.9%	5.2%
Germany	178	87	46	42	37	30	25	20	22	9.2%	-11.6%
Greece	1	1	1	1	1	1	1	1	1	0.0%	0.0%
Hungary	21	12	8.5	7	6	7	4	3	5	102.4%	-7.3%
Ireland	25	25	30	30	30	29	28	28	27	-3.9%	0.7%
Italy ^(**)	117	66	49	38	45	48	43	41	40	-3.6%	-4.5%
Moldova	1	1	1	1	1	1	1	1	1	0.0%	-6.1%
Netherlands	1,431	1,236	825	740	695	196	147	155	103	-33.4%	-20.2%
Norway	3,108	2,762	2,461	2,388	2,334	2,226	2,165	2,062	2,095	1.6%	-2.5%
Poland	106	71	61	58	56	73	85	87	86	-0.6%	1.8%
Romania	143	110	103	99	92	87	81	81	77	-4.8%	-3.2%
Serbia and Montenegro	10	8	6	6	6	5	5	5	5	-4.0%	-4.9%
Slovakia	6	5	5	5	4	4	4	4	4	-1.6%	-1.9%
Slovenia	0	1	1	1	0	0	0	0	1		0.0%
Spain	3	3	3	3	3	3	3	3	3	-3.0%	0.9%
Turkey	8	6	6	6	6	6	6	6	6	0.0%	0.1%
Ukraine	1,030	969	884	865	846	906	906	906	952	5.1%	-0.2%
United Kingdom	728	520	333	288	263	276	276	276	247	-10.5%	-6.5%

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

^(**) Data source: Italian Ministry for Ecological Transition.

Reserves

Countries^(*)

(billion cubic metres as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	51,087	60,900	73,816	74,205	74,485	73,894	73,959	77,126	66,373	-13.9%	0.8%
Russia	44,860	46,000	50,249	50,660	50,551	49,620	49,203	49,203	47,808	-2.8%	0.4%
Azerbaijan	499	515	665	665	1,074	1,435	1,917	2,300	1,917	-16.7%	12.7%
Georgia	1	1	1	1	1	1	1	1	1	0.0%	-6.1%
Kazakhstan	1,389	1,389	1,830	1,830	1,830	1,830	1,830	1,830	1,830	0.0%	2.5%
Kyrgyzstan	1	1	1	1	1	1	1	1	1	0.0%	-6.1%
Tajikistan	1	1	1	1	1	1	1	1	1	0.0%	-6.1%
Turkmenistan	2,601	11,332	19,486	19,486	19,486	19,486	19,486	22,269	13,950	-37.4%	1.9%
Uzbekistan	1,735	1,661	1,585	1,564	1,543	1,522	1,522	1,522	867	-43.0%	-5.7%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Middle East	72,513	78,963	79,263	80,271	80,177	80,571	81,013	81,359	80,665	-0.9%	0.2%
Bahrain	110	110	163	224	210	210	193	81	68	-16.1%	-4.2%
Iran	27,580	33,090	33,500	33,721	33,810	33,899	33,988	34,077	33,988	-0.3%	0.2%
Iraq	3,170	3,158	3,158	3,820	3,744	3,729	3,714	3,714	3,714	0.0%	1.5%
Israel	45	215	206	465	488	497	547	547	538	-1.7%	8.7%
Jordan	6	6	6	6	6	6	6	6	6	0.0%	0.0%
Kuwait	1,572	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	0.0%	0.0%
Oman	670	520	705	705	705	677	674	674	673	-0.1%	2.4%
Qatar	25,636	25,201	24,299	24,073	23,861	23,846	23,831	23,831	23,831	0.0%	-0.5%
Saudi Arabia	6,900	8,016	8,588	8,619	8,715	9,069	9,423	9,791	9,423	-3.8%	1.5%
Syria	285	285	285	285	285	285	285	285	285	0.0%	0.0%
United Arab Emirates	6,060	6,090	6,090	6,090	6,090	6,090	6,090	6,090	6,090	0.0%	0.0%
Yemen	479	488	479	479	479	479	479	479	265	-44.7%	-5.4%

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

Reserves

Countries^(*)

(billion cubic metres as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	14,163	14,493	14,594	15,042	15,314	15,370	15,439	15,467	15,888	2.7%	0.8%
Algeria	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	0.0%	0.0%
Angola	270	310	308	440	422	384	343	307	343	11.7%	0.9%
Benin	1	1	0	0	0	0	0	0	1		0.0%
Cameroon	165	155	153	152	151	150	149	149	179	19.9%	1.3%
Chad	0	1	1	1	1	1	1	1	1	0.0%	0.0%
Congo	130	127	285	285	285	285	284	284	284	0.0%	7.6%
Côte d'Ivoire	31	27	22	21	20	18	18	18	18	0.0%	-3.6%
Dem. Rep. Congo	1	1	1	1	1	1	1	1	1	0.3%	0.0%
Egypt	1,920	2,210	2,086	2,221	2,221	2,221	2,221	2,221	2,209	-0.5%	0.0%
Equatorial Guinea	91	82	54	47	42	42	39	38	39	2.2%	-6.6%
Ethiopia	25	28	25	25	25	35	35	35	25	-28.6%	-1.0%
Gabon	30	28	25	26	26	26	26	26	26	0.1%	-0.7%
Ghana	24	27	27	27	58	56	55	55	55	0.0%	6.6%
Libya	1,491	1,495	1,505	1,505	1,505	1,505	1,505	1,505	1,505	0.0%	0.1%
Madagascar	2	2	2	2	2	2	2	2	2	0.0%	0.0%
Mauritania	0	28	28	28	28	50	50	50	50	0.0%	5.4%
Morocco	3	3	1	1	1	1	1	1	1	0.0%	-9.5%
Mozambique	61	75	75	75	186	186	186	186	650	250.0%	21.7%
Namibia	70	70	70	70	70	70	70	47	47	0.0%	-3.5%
Nigeria	5,154	5,110	5,284	5,475	5,627	5,675	5,761	5,848	5,761	-1.5%	1.1%
Senegal	11	10	2	2	2	21	52	52	52	0.0%	16.2%
Somalia	0	0	6	6	6	6	6	6	6	0.0%	
South Africa	29	12	3	2	3	2	2	2	1	-46.7%	-20.5%
Sudan	85	85	25	25	25	25	25	25	25	0.0%	-10.5%
Tanzania	28	37	37	37	40	40	39	39	39	0.0%	0.5%
Tunisia	37	65	65	65	64	64	64	64	64	0.0%	-0.1%

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

Reserves

Countries^(*)

(billion cubic metres as at 31st December)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	13,259	15,683	15,503	14,982	14,637	14,445	14,348	13,277	12,331	-7.1%	-2.2%
Afghanistan	100	100	99	99	99	99	98	98	98	0.0%	-0.2%
Australia	2,428	3,759	3,205	3,193	3,193	3,193	3,173	3,201	2,716	-15.2%	-2.9%
Bangladesh	407	354	385	365	337	325	312	312	275	-11.9%	-2.3%
Brunei	333	301	258	252	240	246	240	240	233	-2.8%	-2.3%
China	1,690	2,244	2,791	2,838	2,786	2,779	2,834	2,987	2,922	-2.2%	2.4%
India	1,162	1,210	1,313	1,288	1,284	1,340	1,381	1,423	1,372	-3.6%	1.1%
Indonesia	2,659	3,068	2,865	2,841	2,745	2,605	2,605	1,349	1,189	-11.9%	-8.3%
Japan	39	37	31	29	28	27	26	26	24	-4.7%	-3.7%
Malaysia	2,346	2,334	2,842	2,470	2,346	2,290	2,217	2,229	2,179	-2.3%	-0.6%
Myanmar	687	724	484	368	355	346	338	338	295	-12.8%	-7.8%
New Zealand	62	52	56	50	51	53	54	54	55	1.3%	0.4%
Pakistan	712	617	467	479	502	499	446	435	428	-1.5%	-3.3%
Papua New Guinea	3	263	216	238	226	217	205	198	192	-3.2%	-2.8%
Philippines	100	86	71	69	58	56	53	53	50	-4.7%	-4.8%
South Korea	3	3	3	3	3	3	3	3	3	-6.0%	-0.6%
Taiwan	4	4	3	3	3	3	3	3	2	-34.9%	-6.7%
Thailand	304	300	207	193	181	171	171	138	112	-19.1%	-8.6%
Vietnam	220	228	207	203	199	195	190	190	186	-2.4%	-1.8%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	14,618	18,446	18,769	19,060	22,223	22,960	22,719	22,250	23,153	4.1%	2.1%
Argentina	439	359	350	337	355	354	354	378	400	5.9%	1.0%
Barbados	2	2	2	0	1	1	1	1	1	0.0%	-8.0%
Bolivia	710	281	305	310	303	201	200	200	192	-4.2%	-3.4%
Brazil	306	417	429	378	370	368	365	360	360	0.1%	-1.3%
Canada	1,632	1,977	2,171	2,097	2,083	2,008	2,061	2,111	2,471	17.0%	2.0%
Chile	13	8	6	5	5	4	4	4	8	96.0%	0.1%
Colombia	113	153	123	114	110	107	90	73	83	13.8%	-5.4%
Cuba	17	14	9	8	8	8	8	8	8	-5.6%	-5.5%
Ecuador	9	7	11	11	11	11	11	11	10	-6.7%	3.3%
Mexico	412	353	257	208	199	188	183	183	201	10.2%	-5.0%
Peru	338	353	399	456	365	300	300	247	300	21.5%	-1.5%
Trinidad and Tobago	531	381	300	281	298	298	298	298	274	-8.1%	-2.9%
United States	5,787	8,620	8,709	9,119	12,408	13,437	13,171	12,702	13,171	3.7%	3.9%
Venezuela	4,309	5,521	5,698	5,736	5,707	5,674	5,674	5,674	5,674	0.0%	0.2%

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

Production

Areas and Aggregates^(*)

(billion cubic metres)

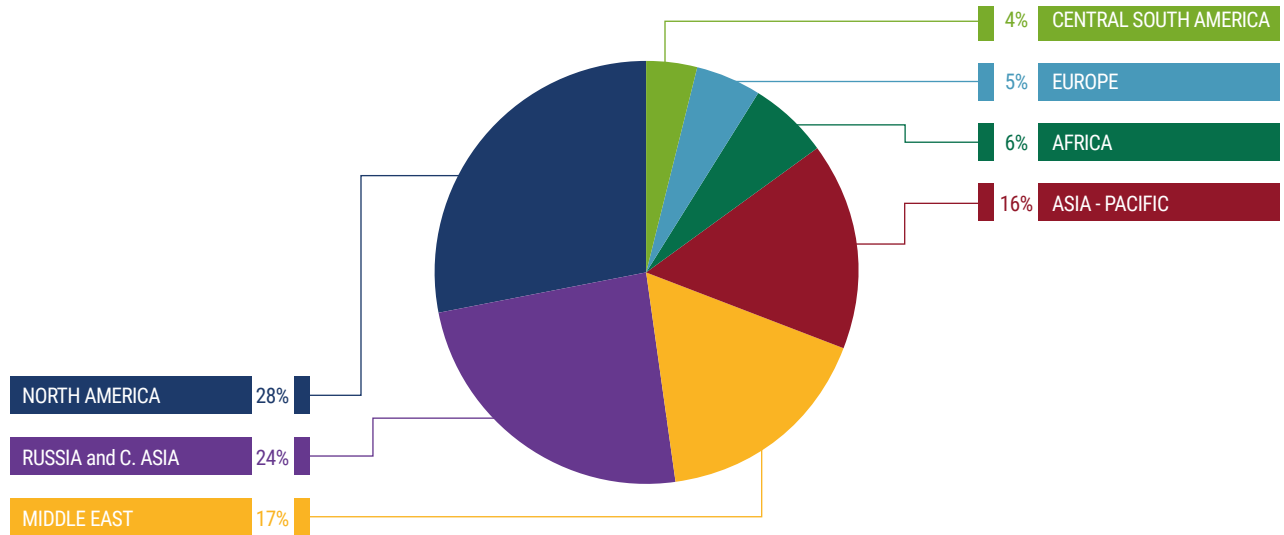
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	328.35	314.63	262.87	262.55	265.09	253.70	237.24	220.84	211.60	-4.2%	-3.5%
Russia and Central Asia	735.10	772.12	781.46	798.68	854.22	901.76	931.35	871.93	955.07	9.5%	2.0%
Middle East	294.94	458.21	575.08	596.99	614.11	624.15	642.86	647.06	663.68	2.6%	3.4%
Africa	181.74	202.74	197.36	211.72	228.93	240.31	241.32	229.90	257.16	11.9%	2.2%
Asia - Pacific	361.39	471.79	513.10	528.65	552.70	587.41	615.54	615.15	621.72	1.1%	2.5%
Americas	849.71	932.46	1,116.63	1,116.59	1,136.65	1,214.28	1,316.16	1,278.80	1,289.51	0.8%	3.0%
- North America	670.09	725.96	902.28	908.93	932.28	1,011.11	1,114.96	1,096.46	1,111.79	1.4%	4.0%
- Central South America	179.62	206.50	214.35	207.66	204.36	203.17	201.20	182.34	177.71	-2.5%	-1.4%
World	2,751.22	3,151.95	3,446.51	3,515.17	3,651.68	3,821.62	3,984.47	3,863.68	3,998.72	3.5%	2.2%
European Union 27	129.23	127.35	84.18	83.08	77.37	68.74	60.74	47.93	43.83	-8.6%	-9.2%
MENA	445.56	615.48	712.26	748.63	775.76	795.47	813.69	804.89	851.11	5.7%	3.0%
OECD	1,065.22	1,135.34	1,270.37	1,286.13	1,329.79	1,413.02	1,520.48	1,500.94	1,504.06	0.2%	2.6%
NON OECD	1,686.00	2,016.61	2,176.13	2,229.04	2,321.89	2,408.60	2,463.99	2,362.74	2,494.66	5.6%	2.0%
OPEC	356.76	435.74	514.71	548.21	572.36	576.99	580.92	573.20	598.48	4.4%	2.9%
NON OPEC	2,394.46	2,716.21	2,931.80	2,966.96	3,079.32	3,244.62	3,403.55	3,290.48	3,400.24	3.3%	2.1%

^(*) Data source: Eni's calculations. The original data are from IEA (2022) Extended Balances and, for Italy, from Italian Ministry for Ecological Transition. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Production

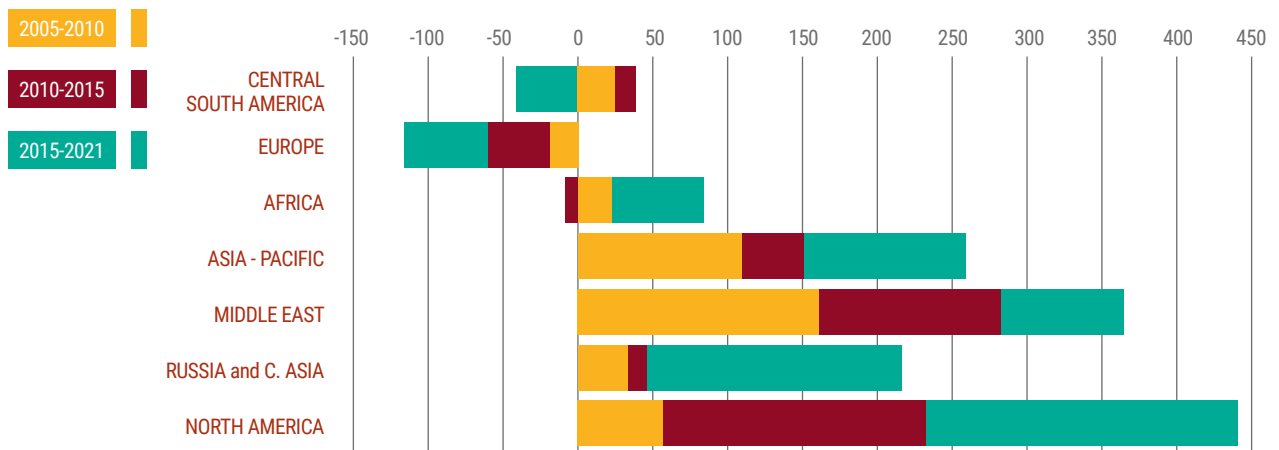
Areas and Aggregates^(*)

3,998.72 billion cubic metres as at 31st December



World Natural Gas Production Growth (2005-2021)^(*)

1,247.50 billion cubic metres



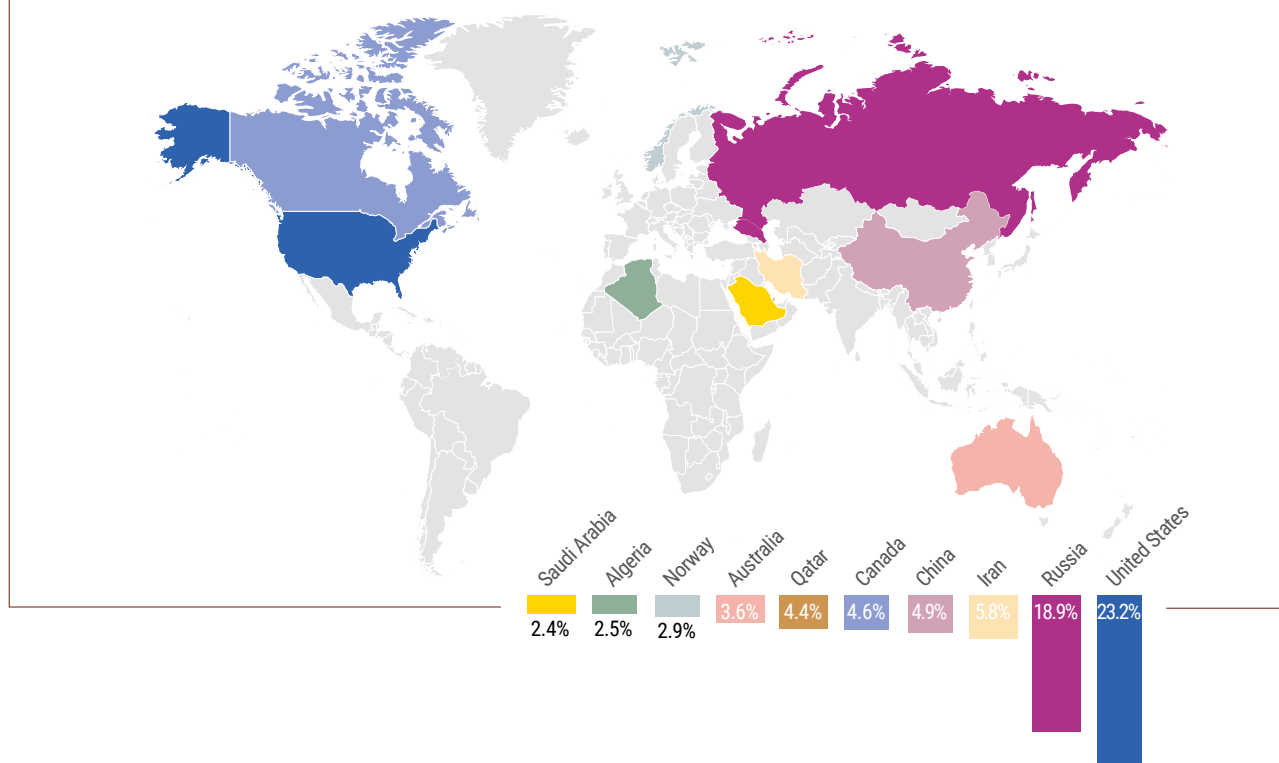
Production

The World Top 10 Producers (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
United States	490.27	575.44	740.45	729.57	746.27	819.16	930.32	916.23	926.60	1.1%	4.4%
Russia	599.92	628.20	609.79	626.16	675.65	705.49	734.42	690.08	757.71	9.8%	1.7%
Iran	97.07	141.56	181.12	196.62	214.69	224.18	228.91	228.91	232.28	1.5%	4.6%
China	48.00	93.23	131.01	133.21	144.08	155.88	171.47	187.35	194.74	3.9%	6.9%
Canada	179.81	150.52	161.83	179.36	186.01	191.95	184.64	180.23	185.19	2.8%	1.9%
Qatar	46.36	124.79	170.76	172.95	172.33	171.40	173.48	172.58	175.02	1.4%	3.1%
Australia	36.47	51.73	67.66	80.40	102.67	117.69	137.17	148.09	142.70	-3.6%	9.7%
Norway	87.27	110.24	119.68	119.05	126.90	124.17	117.32	114.02	117.24	2.8%	0.6%
Algeria	87.94	83.70	83.06	93.69	95.17	96.10	88.98	83.89	101.57	21.1%	1.8%
Saudi Arabia	53.46	69.66	82.89	86.25	90.72	92.00	93.27	93.85	95.23	1.5%	2.9%
The World Top 10	1,726.58	2,029.08	2,348.26	2,417.26	2,554.49	2,698.02	2,859.98	2,815.22	2,928.28	4.0%	3.4%
Rest of the World	1,024.65	1,122.88	1,098.25	1,097.90	1,097.20	1,123.59	1,124.49	1,048.46	1,070.44	2.1%	-0.4%
World	2,751.22	3,151.95	3,446.51	3,515.17	3,651.68	3,821.62	3,984.47	3,863.68	3,998.72	3.5%	2.2%

The World Top 10 (2021)



(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Production

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	328.35	314.63	262.87	262.55	265.08	253.70	237.23	220.83	211.59	-4.2%	-3.5%
Albania	0.01	0.01	0.03	0.04	0.04	0.04	0.07	0.05	0.05	7.4%	13.0%
Austria	1.55	1.62	1.21	1.13	1.21	1.00	0.90	0.74	0.66	-10.4%	-7.9%
Belarus	0.19	0.16	0.17	0.16	0.14	0.15	0.15	0.15	0.15	4.4%	-0.2%
Bulgaria	0.45	0.07	0.10	0.09	0.08	0.03	0.04	0.06	0.03	-44.0%	-6.9%
Croatia	2.17	2.58	1.71	1.59	1.43	1.18	0.99	0.82	0.73	-11.3%	-10.9%
Czech Republic	0.18	0.23	0.24	0.21	0.22	0.21	0.20	0.19	0.20	3.1%	-1.7%
Denmark	10.91	8.54	4.82	4.71	5.06	4.31	3.22	1.39	1.25	-9.6%	-16.0%
France	1.06	0.75	0.02	0.02	0.02	0.01	0.02	0.02	0.02	28.4%	-27.1%
Germany	16.67	12.92	7.37	7.62	7.01	5.48	5.09	4.69	4.30	-8.3%	-9.5%
Greece	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	-39.3%	-5.6%
Hungary	2.71	2.60	1.59	1.66	1.64	1.71	1.54	1.54	1.36	-11.5%	-5.7%
Ireland	0.57	0.27	0.13	2.89	3.31	3.20	2.49	1.92	1.47	-23.5%	16.5%
Italy	11.50	8.01	6.45	5.51	5.27	5.18	4.62	3.92	3.18	-18.8%	-8.0%
Netherlands	65.33	75.27	45.88	44.29	37.93	32.33	27.85	20.07	18.04	-10.1%	-12.2%
Norway	87.27	110.24	119.68	119.05	126.90	124.17	117.32	114.02	117.24	2.8%	0.6%
Poland	4.52	4.29	4.28	4.13	4.08	4.03	3.99	3.95	3.88	-1.7%	-0.9%
Romania	11.28	10.02	10.22	9.05	9.91	9.86	9.53	8.51	8.60	1.0%	-1.4%
Serbia	0.27	0.36	0.53	0.48	0.45	0.42	0.41	0.38	0.34	-11.4%	-0.6%
Slovakia	0.15	0.10	0.09	0.09	0.14	0.09	0.12	0.06	0.06	-10.7%	-5.2%
Slovenia	0.00	0.01	0.00	0.00	0.01	0.02	0.01	0.01	0.01	-5.3%	-2.9%
Spain	0.17	0.05	0.06	0.06	0.03	0.09	0.14	0.05	0.04	-18.3%	-2.4%
Turkey	0.86	0.65	0.36	0.35	0.34	0.41	0.45	0.42	0.38	-10.8%	-4.9%
Ukraine	18.19	17.95	17.26	17.64	17.99	19.17	18.98	18.44	16.93	-8.2%	-0.5%
United Kingdom	92.34	57.90	40.66	41.74	41.85	40.60	39.13	39.45	32.68	-17.2%	-5.1%

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Production

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	735.10	772.12	781.46	798.68	854.22	901.76	931.35	871.93	955.07	9.5%	2.0%
Russia	599.92	628.20	609.79	626.16	675.65	705.49	734.42	690.08	757.71	9.8%	1.7%
Azerbaijan	5.40	16.27	18.78	18.28	17.76	18.76	23.94	25.86	31.80	22.9%	6.3%
Georgia	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	68.0%	8.2%
Kazakhstan	18.41	28.62	27.14	30.93	36.38	39.18	33.50	30.61	29.50	-3.6%	0.3%
Kyrgyzstan	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-0.9%	-1.0%
Tajikistan	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.8%	-26.9%
Turkmenistan	59.68	42.91	79.28	75.56	76.25	79.98	82.12	78.34	85.32	8.9%	6.4%
Uzbekistan	51.62	56.07	46.41	47.71	48.15	58.32	57.34	47.01	50.71	7.9%	-0.9%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Middle East	294.94	458.21	575.08	596.99	614.11	624.15	642.86	647.06	663.68	2.6%	3.4%
Bahrain	9.71	12.29	14.15	13.99	14.01	14.18	15.66	15.76	16.35	3.8%	2.6%
Iran	97.07	141.56	181.12	196.62	214.69	224.18	228.91	228.91	232.28	1.5%	4.6%
Iraq	1.73	4.87	6.60	7.26	9.63	10.07	10.60	10.32	11.18	8.3%	7.8%
Israel	1.53	3.11	6.90	7.68	8.11	8.39	8.41	12.38	15.49	25.2%	15.7%
Jordan	0.21	0.16	0.12	0.10	0.10	0.09	0.10	0.15	0.15	-0.2%	-0.8%
Kuwait	11.69	11.14	16.06	16.24	16.05	17.01	18.57	20.43	20.04	-1.9%	5.5%
Oman	20.84	27.64	32.89	33.58	33.72	38.09	38.53	37.78	41.28	9.3%	3.7%
Qatar	46.36	124.79	170.76	172.95	172.33	171.40	173.48	172.58	175.02	1.4%	3.1%
Saudi Arabia	53.46	69.66	82.89	86.25	90.72	92.00	93.27	93.85	95.23	1.5%	2.9%
Syria	5.75	8.43	4.05	3.53	3.49	3.47	3.33	2.92	3.07	5.2%	-8.8%
United Arab Emirates	46.60	48.31	56.69	58.27	50.95	45.19	51.90	51.87	53.45	3.0%	0.9%
Yemen		6.26	2.86	0.50	0.30	0.10	0.10	0.13	0.13	0.0%	-29.7%

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Production

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	181.74	202.72	197.36	211.72	228.93	240.31	241.32	229.90	257.16	11.9%	2.2%
Algeria	87.94	83.70	83.06	93.69	95.17	96.10	88.98	83.89	101.57	21.1%	1.8%
Angola	0.62	0.70	0.73	1.62	5.51	6.17	6.46	7.17	5.59	-22.1%	20.7%
Cameroon		0.30	0.48	0.51	0.57	1.52	2.24	2.26	2.18	-3.4%	19.7%
Congo	0.02	0.10	0.50	0.57	0.60	0.68	0.96	1.00	1.00	-0.1%	23.5%
Côte d'Ivoire	1.46	1.54	1.96	1.97	2.19	2.03	2.16	2.22	2.36	6.6%	4.0%
Egypt	49.58	53.97	36.39	40.45	50.33	59.58	66.08	59.26	68.71	15.9%	2.2%
Equatorial Guinea	1.24	6.21	7.07	7.48	7.83	7.36	5.92	5.72	6.66	16.5%	0.6%
Gabon	0.14	0.31	0.52	0.52	0.46	0.45	0.47	0.49	0.44	-9.5%	3.3%
Ghana			0.70	0.62	0.89	0.86	1.56	2.51	2.91	16.0%	
Libya	10.74	15.97	14.72	14.79	13.59	13.19	13.48	12.35	14.47	17.2%	-0.9%
Morocco	0.04	0.05	0.08	0.07	0.07	0.08	0.09	0.09	0.10	11.9%	5.8%
Mozambique	2.17	3.12	4.74	4.83	4.79	4.80	4.76	4.63	4.61	-0.5%	3.6%
Nigeria	23.00	30.91	41.50	40.09	42.85	43.42	43.87	44.13	42.04	-4.7%	2.8%
Senegal	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	-2.6%	-4.0%
South Africa	2.07	1.47	1.12	1.02	0.82	0.98	1.12	1.07	1.01	-5.7%	-3.3%
Tanzania	0.39	0.75	0.85	0.81	0.75	0.72	0.95	0.85	0.89	5.7%	1.6%
Tunisia	2.32	3.58	2.93	2.64	2.49	2.38	2.20	2.24	2.59	15.6%	-2.9%
Others Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.1%	1.7%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	361.39	471.79	513.10	528.65	552.70	587.41	615.54	615.15	621.72	1.1%	2.5%
Australia	36.47	51.73	67.66	80.40	102.67	117.69	137.17	148.09	142.70	-3.6%	9.7%
Bangladesh	12.57	19.28	24.88	27.18	27.19	27.12	26.94	24.79	25.20	1.7%	2.5%
Brunei	11.63	11.94	10.95	10.56	11.57	12.39	10.67	10.36	9.45	-8.8%	-2.1%
China	48.00	93.23	131.01	133.21	144.08	155.88	171.47	187.35	194.74	3.9%	6.9%
India	30.17	49.97	30.35	30.08	30.94	31.25	29.50	27.09	30.48	12.5%	-4.4%
Indonesia	76.27	87.00	76.16	75.08	72.70	72.80	67.58	59.54	59.28	-0.4%	-3.4%
Japan	3.37	3.73	2.76	2.85	2.98	2.62	2.43	2.26	2.33	3.1%	-4.2%
Malaysia	64.40	59.32	67.27	66.56	65.23	68.80	71.46	66.00	70.54	6.9%	1.6%
Myanmar	11.98	11.83	17.18	18.61	18.55	17.08	17.49	16.93	16.38	-3.2%	3.0%
New Zealand	3.75	4.48	4.70	4.92	4.86	4.31	4.64	4.53	3.94	-13.0%	-1.2%
Pakistan	29.82	31.38	28.21	26.15	22.03	28.37	25.90	24.79	25.27	1.9%	-2.0%
Philippines	3.14	3.55	3.34	3.83	3.78	4.22	4.25	3.85	3.29	-14.6%	-0.7%
South Korea	0.51	0.56	0.20	0.16	0.36	0.30	0.25	0.19	0.06	-70.3%	-18.8%
Taiwan	0.51	0.28	0.35	0.30	0.25	0.18	0.16	0.10	0.10	4.4%	-8.6%
Thailand	21.52	28.76	30.00	29.42	27.47	26.59	28.05	25.16	25.42	1.0%	-1.1%
Vietnam	6.96	9.45	9.19	10.48	9.60	9.61	9.93	8.61	6.98	-18.9%	-2.7%
Others Asia Pacific	0.32	5.29	8.89	8.86	8.45	8.18	7.64	5.51	5.57	1.1%	0.5%

(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Production (*)

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	849.71	932.46	1,116.63	1,116.59	1,136.65	1,214.28	1,316.16	1,278.80	1,289.51	0.8%	3.0%
Argentina	46.43	40.25	38.86	39.91	40.54	41.58	43.33	39.74	39.55	-0.5%	-0.2%
Bolivia	11.88	14.30	21.02	20.06	19.46	18.11	15.79	15.22	15.93	4.7%	1.0%
Brazil	11.34	15.34	24.42	24.66	27.90	25.79	27.00	25.12	25.26	0.6%	4.6%
Canada	179.81	150.52	161.83	179.36	186.01	191.95	184.64	180.23	185.19	2.8%	1.9%
Chile	1.87	1.80	0.98	1.18	1.20	1.22	1.49	1.14	1.32	15.2%	-2.8%
Colombia	7.12	10.96	12.07	11.14	11.41	11.90	12.16	11.83	11.24	-5.0%	0.2%
Cuba	0.69	0.99	1.15	1.10	0.97	0.90	0.88	0.83	0.83	0.0%	-1.6%
Ecuador	0.32	0.49	0.65	0.70	0.63	0.55	0.48	0.41	0.42	3.4%	-1.4%
Mexico	44.73	49.52	39.97	35.39	30.90	32.62	31.89	31.61	30.41	-3.8%	-4.3%
Peru	1.89	8.87	14.76	16.34	14.54	14.29	15.08	13.54	13.32	-1.6%	3.8%
Trinidad and Tobago	30.82	41.67	37.20	32.37	32.49	35.00	35.55	29.80	24.88	-16.5%	-4.6%
United States	490.27	575.44	740.45	729.57	746.27	819.16	930.32	916.23	926.60	1.1%	4.4%
Venezuela	22.53	22.28	23.24	24.78	24.30	21.19	17.52	13.07	14.53	11.2%	-3.8%
Others Americas	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	-1.7%	1.4%

(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Reserves/Production Ratio

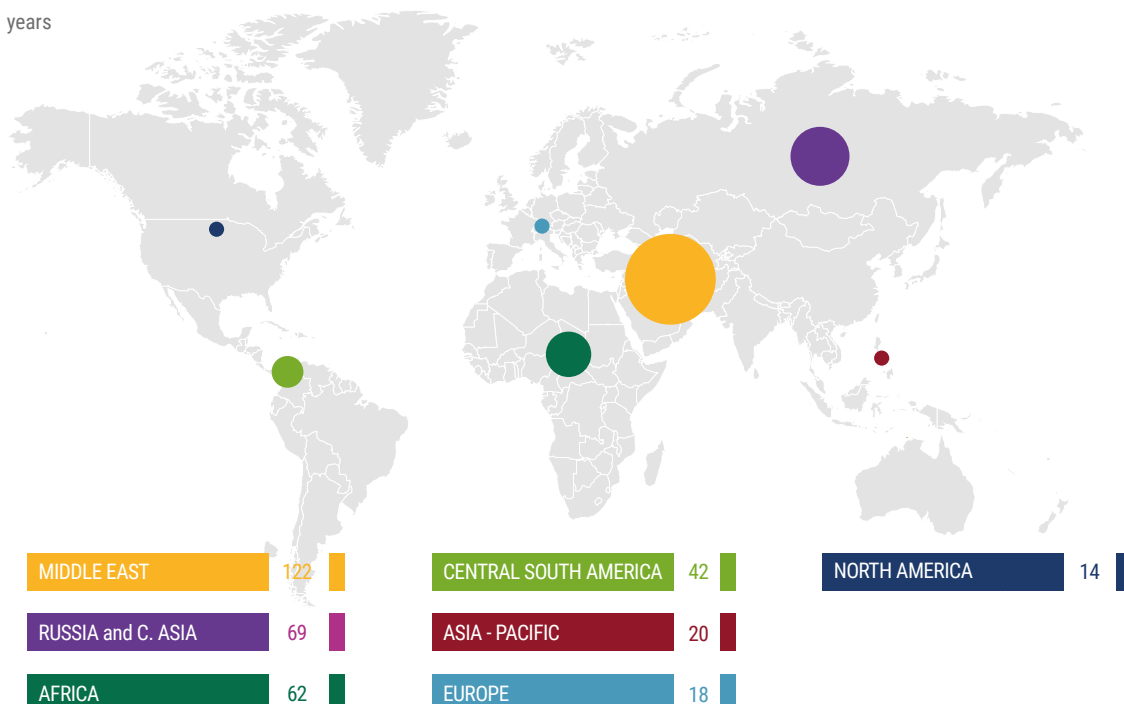
Areas and Aggregates^(*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	22	19	19	18	17	16	16	17	18
Russia and Central Asia	69	79	94	93	87	82	79	88	69
Middle East	246	172	138	134	131	129	126	126	122
Africa	78	71	74	71	67	64	64	67	62
Asia - Pacific	37	33	30	28	26	25	23	22	20
Americas	17	20	17	17	20	19	17	17	18
- North America	11	15	12	12	16	15	14	14	14
- Central South America	40	38	37	38	38	37	37	41	42
World	63	62	60	59	58	55	53	55	51
European Union 27	17	14	15	14	14	8	9	11	11
MENA	181	142	123	118	114	112	110	111	105
OECD	15	18	15	15	17	16	15	14	15
NON OECD	93	87	87	85	82	78	77	81	72
OPEC	172	159	138	131	126	126	126	128	122
NON OPEC	47	46	46	46	45	43	41	42	38

Reserves/Production Ratio (2021)

World: 51 years



^(*) Data source: Eni's calculations on Enerdata *Global Energy & CO₂ Data*, IEA (2022) *Extended Balances* and other official data sources. All rights reserved.

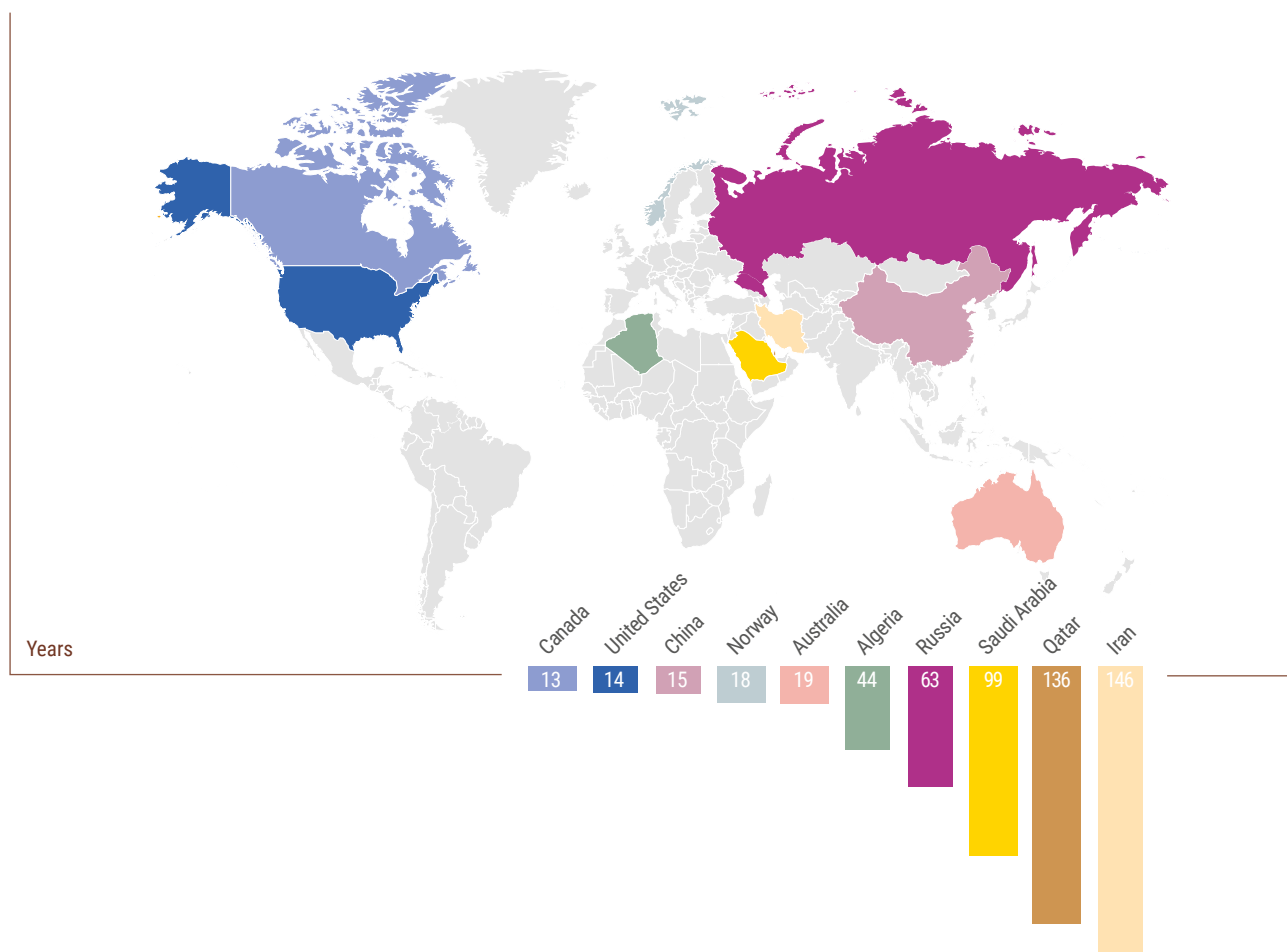
Reserves/Production Ratio

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

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Iran	284	234	185	172	157	151	148	149	146
Qatar	553	202	142	139	138	139	137	138	136
Saudi Arabia	129	115	104	100	96	99	101	104	99
Russia	75	73	82	81	75	70	67	71	63
Algeria	51	54	54	48	47	47	51	54	44
Australia	67	73	47	40	31	27	23	22	19
Norway	36	25	21	20	18	18	18	18	18
China	35	24	21	21	19	18	17	16	15
United States	12	15	12	12	17	16	14	14	14
Canada	9	13	13	12	11	10	11	12	13

The World Top 10 (2021)



(*) Data source: Eni's calculations on Enerdata Global Energy & CO₂ Data, IEA (2022) *Extended Balances* and other official data sources. All rights reserved.

Reserves/Production Ratio

Countries (*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	22	19	19	18	17	16	16	17	18
Albania	29	7	3	2	2	27	15	21	19
Austria	14	9	7	7	6	7	7	8	8
Belarus	5	6	3	3	3	3	3	3	3
Bulgaria	7	73	45	48	55	127	112	76	135
Croatia	14	10	7	6	6	5	6	7	7
Czech Republic	17	13	14	16	15	16	17	18	17
Denmark	11	12	17	16	14	16	21	48	52
France	7	7	391	416	529	965	521	467	374
Germany	11	7	6	6	5	5	5	4	5
Greece	47	113	183	90	95	68	90	129	212
Hungary	8	5	5	4	4	4	3	2	4
Ireland	44	92	229	10	9	9	11	15	18
Italy	10	8	8	7	8	9	9	11	13
Netherlands	22	16	18	17	18	6	5	8	6
Norway	36	25	21	20	18	18	18	18	18
Poland	23	17	14	14	14	18	21	22	22
Romania	13	11	10	11	9	9	8	10	9
Serbia and Montenegro	36	23	12	12	12	12	12	13	14
Slovakia	39	51	51	51	32	49	36	67	74
Slovenia	0	143	333	201	0	0	0	0	198
Spain	20	56	55	61	122	38	24	68	81
Turkey	9	9	17	18	18	15	13	14	16
Ukraine	57	54	51	49	47	47	48	49	56
United Kingdom	8	9	8	7	6	7	7	7	8

(*) Data source: Eni's calculations on Enerdata *Global Energy & CO₂ Data*, IEA (2022) *Extended Balances* and other official data sources. All rights reserved.

Reserves/Production Ratio

Countries (*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia and Central Asia	69	79	94	93	87	82	79	88	69
Russia	75	73	82	81	75	70	67	71	63
Azerbaijan	92	32	35	36	60	77	80	89	60
Georgia	56	159	46	79	60	50	52	56	33
Kazakhstan	75	49	67	59	50	47	55	60	62
Kyrgyzstan	41	45	17	19	21	20	23	25	25
Tajikistan	39	46	128	164	443	826	826	823	723
Turkmenistan	44	264	246	258	256	244	237	284	164
Uzbekistan	34	30	34	33	32	26	27	32	17
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Middle East	246	172	138	134	131	129	126	126	122
Bahrain	11	9	12	16	15	15	12	5	4
Iran	284	234	185	172	157	151	148	149	146
Iraq	1,833	648	478	526	389	370	350	360	332
Israel	29	69	30	61	60	59	65	44	35
Jordan	29	38	51	60	62	66	62	41	41
Kuwait	135	160	111	110	111	105	96	87	89
Oman	32	19	21	21	21	18	17	18	16
Qatar	553	202	142	139	138	139	137	138	136
Saudi Arabia	129	115	104	100	96	99	101	104	99
Syria	50	34	70	81	82	82	86	98	93
United Arab Emirates	130	126	107	105	120	135	117	117	114
Yemen		78	168	956	1,593	4,779	4,779	3,676	2,035

(*) Data source: Eni's calculations on Enerdata *Global Energy & CO₂ Data*, IEA (2022) *Extended Balances* and other official data sources. All rights reserved.

Reserves/Production Ratio

Countries (*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Africa	78	71	74	71	67	64	64	67	62
Algeria	51	54	54	48	47	47	51	54	44
Angola	437	441	421	271	77	62	53	43	61
Cameroon		514	319	297	266	99	67	66	82
Congo	5,836	1,295	571	499	474	417	296	284	284
Côte d'Ivoire	21	18	11	11	9	9	8	8	8
Egypt	39	41	57	55	44	37	34	37	32
Equatorial Guinea	74	13	8	6	5	6	7	7	6
Gabon	211	90	48	49	56	58	56	53	58
Ghana			39	44	65	65	35	22	19
Libya	139	94	102	102	111	114	112	122	104
Morocco	76	57	13	14	14	13	11	12	10
Mozambique	28	24	16	16	39	39	39	40	141
Nigeria	224	165	127	137	131	131	131	133	137
Senegal	662	402	85	91	84	1,730	3,724	3,203	3,289
South Africa	14	8	2	2	3	2	2	2	1
Tanzania	72	49	44	46	53	55	41	46	44
Tunisia	16	18	22	25	26	27	29	29	25
Others Africa	0	386,597	466,583	466,583	411,691	633,219	633,219	630,774	631,587

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Asia - Pacific	37	33	30	28	26	25	23	22	20
Australia	67	73	47	40	31	27	23	22	19
Bangladesh	32	18	15	13	12	12	12	13	11
Brunei	29	25	24	24	21	20	23	23	25
China	35	24	21	21	19	18	17	16	15
India	39	24	43	43	42	43	47	53	45
Indonesia	35	35	38	38	38	36	39	23	20
Japan	12	10	11	10	9	10	11	11	10
Malaysia	36	39	42	37	36	33	31	34	31
Myanmar	57	61	28	20	19	20	19	20	18
New Zealand	17	12	12	10	11	12	12	12	14
Pakistan	24	20	17	18	23	18	17	18	17
Philippines	32	24	21	18	15	13	12	14	15
South Korea	6	5	15	19	8	10	12	16	49
Taiwan	8	13	8	9	11	14	17	26	16
Thailand	14	10	7	7	7	6	6	5	4
Vietnam	32	24	23	19	21	20	19	22	27

(*) Data source: Eni's calculations on Enerdata *Global Energy & CO₂ Data*, IEA (2022) *Extended Balances* and other official data sources. All rights reserved.

Reserves/Production Ratio

Countries (*)

(years)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Americas	17	20	17	17	20	19	17	17	18
Argentina	9	9	9	8	9	9	8	10	10
Bolivia	60	20	15	15	16	11	13	13	12
Brazil	27	27	18	15	13	14	14	14	14
Canada	9	13	13	12	11	10	11	12	13
Chile	7	5	6	4	4	4	3	4	6
Colombia	16	14	10	10	10	9	7	6	7
Cuba	25	14	8	7	8	9	9	10	9
Ecuador	28	14	17	16	17	20	22	26	24
Mexico	9	7	6	6	6	6	6	6	7
Peru	179	40	27	28	25	21	20	18	23
Trinidad and Tobago	17	9	8	9	9	9	8	10	11
United States	12	15	12	12	17	16	14	14	14
Venezuela	191	248	245	232	235	268	324	434	391

(*) Data source: Eni's calculations on Enerdata *Global Energy & CO₂ Data*, IEA (2022) *Extended Balances* and other official data sources. All rights reserved.

Consumption

Areas and Aggregates (*)

(billion cubic metres)

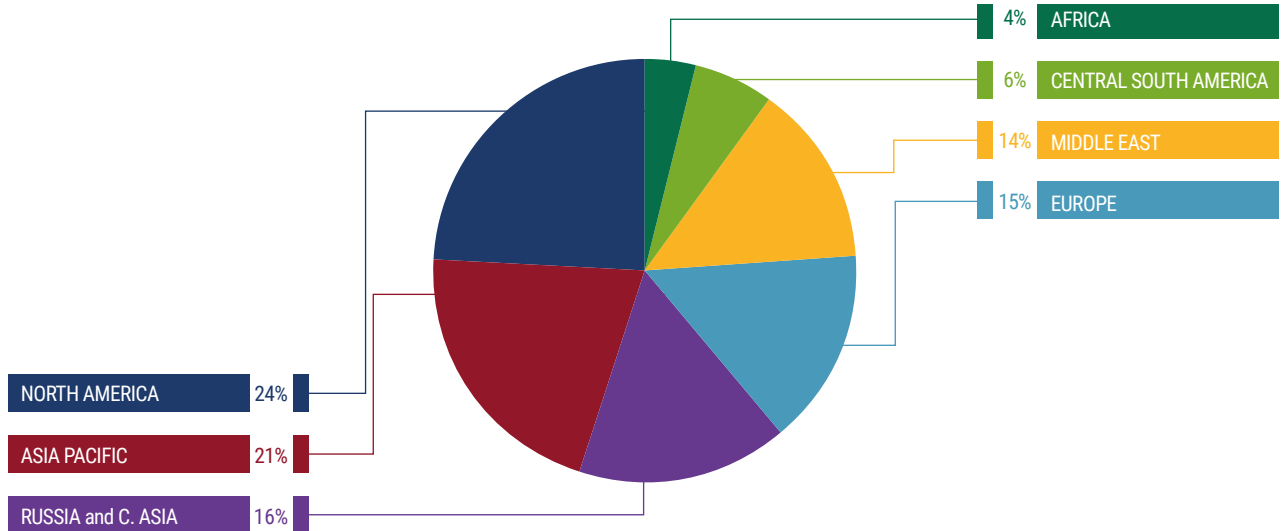
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	653.68	658.52	526.21	552.48	576.19	567.89	569.76	557.25	594.36	6.7%	-0.9%
Russia and Central Asia	492.46	549.35	507.41	521.32	538.78	603.46	595.42	582.15	643.72	10.6%	1.5%
Middle East	248.61	361.50	455.51	474.51	491.79	498.57	511.11	517.78	535.43	3.4%	3.6%
Africa	85.91	102.57	128.25	137.44	145.96	154.44	157.50	154.56	168.41	9.0%	4.6%
Asia - Pacific	398.03	563.46	682.40	706.89	734.44	790.08	818.36	828.16	845.94	2.1%	3.8%
Americas	860.67	942.12	1,097.27	1,121.35	1,116.79	1,188.54	1,239.78	1,204.92	1,208.00	0.3%	2.3%
- North America	684.28	734.75	851.24	879.75	878.32	942.88	1,000.04	967.15	956.76	-1.1%	2.4%
- Central South America	176.40	207.37	246.03	241.60	238.47	245.66	239.74	237.77	251.24	5.7%	1.8%
World	2,739.37	3,177.50	3,397.05	3,513.98	3,603.95	3,802.98	3,891.92	3,844.81	3,995.86	3.9%	2.1%
European Union 27	418.28	421.92	344.28	364.37	384.63	377.58	389.53	379.76	399.63	5.2%	-0.5%
MENA	316.93	443.55	553.33	580.54	607.13	620.39	634.54	636.90	665.32	4.5%	3.8%
OECD	1,424.23	1,548.57	1,612.47	1,672.11	1,689.97	1,757.28	1,817.07	1,790.21	1,817.09	1.5%	1.5%
NON OECD	1,315.14	1,628.94	1,784.58	1,841.87	1,913.98	2,045.70	2,074.85	2,054.60	2,178.77	6.0%	2.7%
OPEC	269.78	358.72	451.63	475.74	488.60	494.23	502.58	504.10	524.34	4.0%	3.5%
NON OPEC	2,469.58	2,818.78	2,945.42	3,038.24	3,115.35	3,308.75	3,389.34	3,340.72	3,471.53	3.9%	1.9%

(*) Data source: Eni's calculations. The original data are from IEA (2022) *Extended Balances* and, for Italy, from Italian Ministry for Ecological Transition. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Consumption

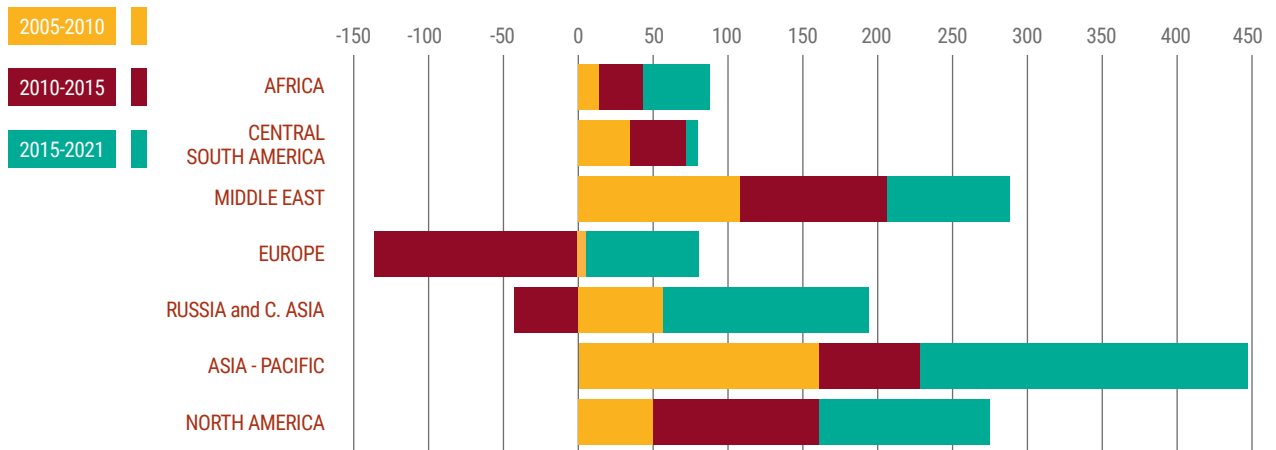
World Natural Gas Consumption (2021)

3,995.86 billion cubic metres



World Natural Gas Consumption Growth (2005-2021)

1,256.50 billion cubic metres



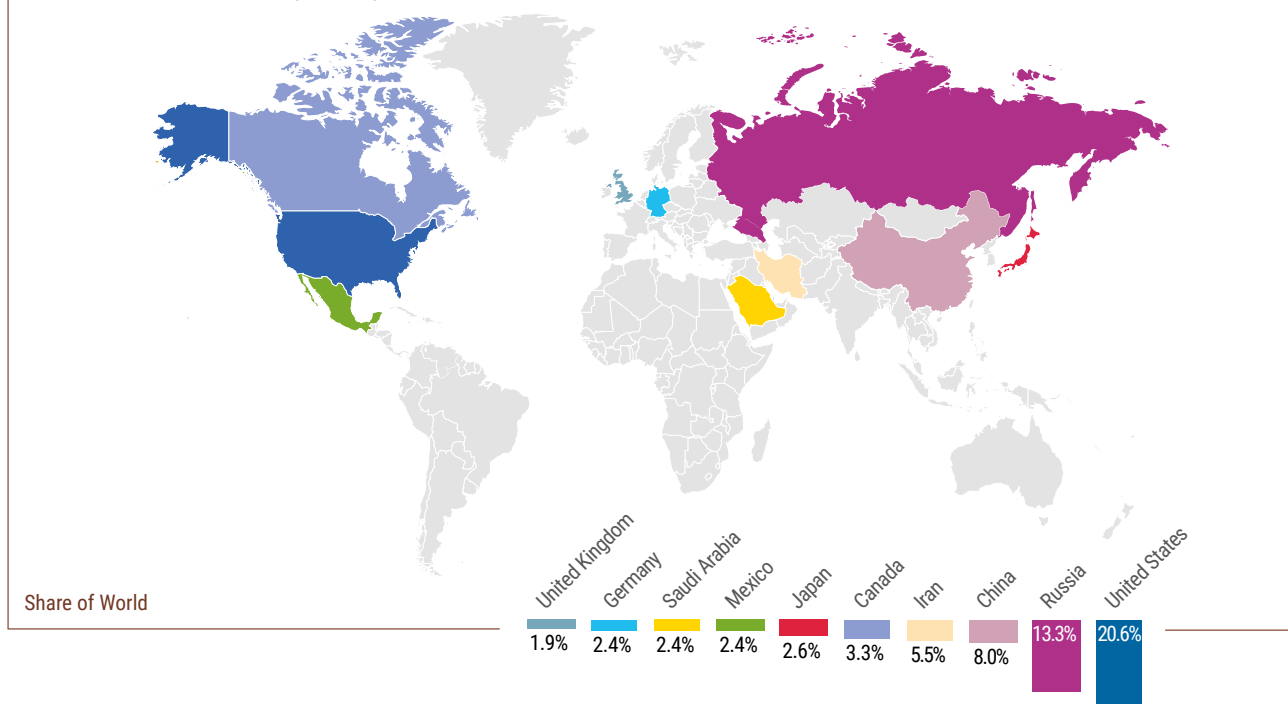
Consumption

The World Top 10 Consumers (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
United States	589.89	646.72	751.89	759.30	748.90	807.08	863.29	836.24	822.96	-1.6%	2.2%
Russia	406.67	446.06	423.63	431.84	447.71	497.85	486.17	475.31	531.28	11.8%	1.6%
China	45.11	103.95	184.44	198.61	227.01	265.92	288.63	308.37	321.18	4.2%	10.8%
Iran	97.50	142.06	180.63	193.48	205.47	212.58	210.96	213.14	218.04	2.3%	4.0%
Canada	94.39	88.03	99.36	120.44	129.42	135.80	136.75	130.91	133.80	2.2%	3.9%
Japan	82.17	100.02	116.83	119.71	116.29	111.40	106.99	107.18	104.57	-2.4%	0.4%
Mexico	53.62	63.08	75.20	76.97	72.80	84.31	79.84	93.24	95.35	2.3%	3.8%
Saudi Arabia	53.46	69.66	82.89	86.25	90.72	92.00	93.27	93.85	95.23	1.5%	2.9%
Germany	90.46	88.28	75.77	81.79	87.62	85.54	87.95	86.76	94.80	9.3%	0.7%
United Kingdom	99.40	98.64	71.97	80.41	78.24	77.60	76.33	71.99	76.43	6.2%	-2.3%
The World Top 10	1,612.67	1,846.50	2,062.61	2,148.81	2,204.18	2,370.09	2,430.19	2,417.00	2,493.64	3.2%	2.8%
Rest of the World	1,126.69	1,331.00	1,334.45	1,365.17	1,399.77	1,432.89	1,461.73	1,427.82	1,502.22	5.2%	1.1%
World	2,739.37	3,177.50	3,397.05	3,513.98	3,603.95	3,802.98	3,891.92	3,844.81	3,995.86	3.9%	2.1%

The World Top 10 (2021)



(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Consumption

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	653.68	658.52	526.21	552.48	576.19	567.89	569.76	557.25	594.36	6.7%	-0.9%
Albania	0.01	0.01	0.03	0.04	0.04	0.04	0.07	0.05	0.05	7.4%	13.0%
Austria	9.40	9.45	8.03	8.42	9.04	8.56	8.93	8.47	8.99	6.2%	-0.4%
Belarus	19.67	21.06	18.41	18.30	18.73	19.87	18.99	17.54	18.52	5.6%	-1.2%
Belgium	17.14	19.48	16.22	16.55	16.91	17.45	17.67	17.59	17.67	0.4%	-0.9%
Bosnia Herzegovina	0.35	0.23	0.21	0.21	0.23	0.23	0.22	0.20	0.23	15.4%	-0.1%
Bulgaria	3.26	2.68	3.02	3.12	3.21	3.04	2.84	2.93	3.30	12.9%	1.9%
Croatia	2.76	3.06	2.42	2.52	2.90	2.67	2.80	2.94	2.85	-2.9%	-0.6%
Czech Republic	8.96	9.38	7.54	8.16	8.37	7.93	8.32	8.46	9.07	7.2%	-0.3%
Denmark	5.12	5.14	3.32	3.35	3.20	3.11	2.94	2.46	2.17	-11.5%	-7.5%
Estonia	0.93	0.65	0.45	0.50	0.47	0.48	0.44	0.40	0.44	8.1%	-3.6%
Finland	4.19	4.46	2.60	2.39	2.25	2.53	2.47	2.46	2.46	0.2%	-5.3%
France	47.71	49.56	40.75	44.53	44.77	42.84	43.66	40.58	43.04	6.1%	-1.3%
Germany	90.46	88.28	75.77	81.79	87.62	85.54	87.95	86.76	94.80	9.3%	0.7%
Greece	2.74	3.76	3.11	4.06	4.89	4.79	5.22	5.73	6.34	10.6%	4.9%
Hungary	14.07	11.42	8.71	9.34	9.93	9.62	9.84	10.19	10.80	5.9%	-0.5%
Ireland	4.07	5.47	4.37	4.94	5.02	5.22	5.30	5.30	5.09	-3.9%	-0.6%
Italy	82.17	79.15	64.32	67.55	71.58	69.21	70.93	67.88	72.76	7.2%	-0.8%
Latvia	1.58	1.70	1.28	1.29	1.15	1.36	1.28	1.06	1.12	5.9%	-3.7%
Lithuania	2.88	2.90	2.40	2.14	2.23	2.07	2.17	2.29	2.18	-4.8%	-2.5%
Luxembourg	1.37	1.39	0.89	0.82	0.81	0.80	0.80	0.72	0.78	7.8%	-5.1%
Malta	0.00	0.00	0.00	0.00	0.28	0.34	0.36	0.37	0.37	0.2%	
Moldova	2.78	2.69	2.48	2.50	2.30	2.49	2.55	2.54	2.76	8.6%	0.2%
Netherlands	41.08	46.60	33.30	34.93	36.10	35.74	37.27	36.56	35.06	-4.1%	-2.6%
North Macedonia	0.07	0.11	0.13	0.20	0.26	0.24	0.28	0.32	0.41	26.1%	12.6%
Norway	4.74	7.42	7.21	6.48	5.79	6.41	5.79	5.28	5.83	10.4%	-2.2%
Poland	14.23	14.89	16.02	17.02	17.96	18.75	18.87	19.90	21.20	6.6%	3.3%
Portugal	4.36	5.22	4.71	5.03	6.30	5.84	6.14	6.01	5.76	-4.2%	0.9%
Romania	16.19	12.55	10.37	10.49	11.18	11.45	10.67	11.15	11.64	4.4%	-0.7%
Serbia	2.26	2.16	2.04	2.20	2.46	2.48	2.32	2.31	2.78	20.3%	2.4%
Slovakia	6.84	5.82	4.51	4.53	4.81	4.74	4.75	4.75	5.29	11.3%	-0.9%
Slovenia	1.08	1.00	0.77	0.82	0.86	0.84	0.86	0.86	0.90	5.4%	-1.0%
Spain	34.71	36.20	28.54	29.12	31.71	31.50	35.93	32.48	34.21	5.3%	-0.5%
Sweden	0.98	1.70	0.84	0.95	1.07	1.16	1.10	1.46	1.32	-9.2%	-2.3%
Switzerland	3.24	3.50	3.32	3.48	3.50	3.32	3.41	3.31	3.60	8.7%	0.3%
Turkey	26.51	36.51	45.80	44.50	51.44	47.70	43.08	46.19	57.12	23.7%	4.2%
Ukraine	76.37	64.26	30.33	29.77	28.56	29.93	27.19	27.73	26.99	-2.7%	-7.6%
United Kingdom	99.40	98.64	71.97	80.41	78.24	77.60	76.33	71.99	76.43	6.2%	-2.3%

(*) Data source: the original data are from IEA (2022) *Extended Balances* and, for Italy, from Italian Ministry for Ecological Transition. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Consumption

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	492.46	549.35	507.41	521.32	538.78	603.46	595.42	582.15	643.72	10.6%	1.5%
Russia	406.67	446.06	423.63	431.84	447.71	497.85	486.17	475.31	531.28	11.8%	1.6%
Armenia	1.56	1.50	2.25	2.15	2.27	2.38	2.48	2.49	2.69	7.9%	5.4%
Azerbaijan	9.42	9.13	11.15	10.93	10.62	10.82	12.26	12.37	12.72	2.8%	3.1%
Georgia	1.23	1.18	2.41	2.27	2.39	2.38	2.70	2.70	2.55	-5.7%	7.3%
Kazakhstan	14.49	25.95	12.34	16.64	16.28	21.66	23.40	23.46	20.97	-10.6%	-1.9%
Kyrgyzstan	0.72	0.29	0.27	0.28	0.30	0.33	0.31	0.33	0.33	0.0%	1.3%
Tajikistan	0.62	0.19	0.00	0.00	0.00	0.06	0.23	0.23	0.23	0.0%	1.7%
Turkmenistan	15.16	20.17	20.07	20.07	20.07	20.07	20.91	21.76	24.17	11.1%	1.7%
Uzbekistan	42.59	44.88	35.30	37.14	39.16	47.93	46.95	43.50	48.79	12.2%	0.8%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Middle East	248.61	361.50	455.51	474.51	491.79	498.57	511.11	517.78	535.43	3.4%	3.6%
Bahrain	9.71	12.29	14.15	13.99	14.01	14.18	15.66	15.76	16.35	3.8%	2.6%
Iran	97.50	142.06	180.63	193.48	205.47	212.58	210.96	213.14	218.04	2.3%	4.0%
Iraq	1.73	4.87	6.60	7.26	11.01	14.05	16.41	17.18	20.45	19.1%	13.9%
Israel	1.53	5.12	7.01	7.97	8.48	8.98	8.95	9.51	9.90	4.1%	6.2%
Jordan	1.61	2.66	2.26	3.94	4.08	4.00	3.92	3.74	3.08	-17.6%	1.3%
Kuwait	11.69	13.79	19.86	20.97	21.31	21.74	23.51	26.27	27.70	5.5%	6.5%
Lebanon	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Oman	8.65	17.33	24.52	24.62	24.14	26.48	26.60	26.09	28.69	10.0%	4.7%
Qatar	16.02	26.03	42.54	41.06	44.26	44.29	44.43	44.12	46.97	6.5%	5.5%
Saudi Arabia	53.46	69.66	82.89	86.25	90.72	92.00	93.27	93.85	95.23	1.5%	2.9%
Syria	5.75	9.08	4.05	3.53	3.49	3.47	3.33	2.92	3.07	5.2%	-9.4%
United Arab Emirates	40.96	57.39	70.05	70.94	64.52	56.71	63.96	65.07	65.79	1.1%	1.2%
Yemen		0.95	0.96	0.50	0.30	0.10	0.10	0.13	0.13	0.0%	-16.5%

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Consumption

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	85.91	102.57	128.25	137.44	145.96	154.44	157.50	154.56	168.41	9.0%	4.6%
Algeria	23.87	27.12	40.03	40.31	41.75	45.24	46.67	44.86	47.42	5.7%	5.2%
Angola	0.62	0.70	0.73	0.76	0.80	1.10	1.24	1.26	0.87	-30.8%	2.0%
Cameroon	0.00	0.30	0.48	0.51	0.57	0.74	0.67	0.86	0.66	-23.5%	7.4%
Congo	0.02	0.10	0.50	0.57	0.60	0.68	0.96	1.00	1.00	-0.1%	23.5%
Côte d'Ivoire	1.46	1.54	1.96	1.97	2.19	2.03	2.16	2.22	2.36	6.6%	4.0%
Dem. Rep. Congo	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Egypt	34.87	41.65	42.77	48.22	56.84	60.20	61.25	59.27	64.86	9.4%	4.1%
Equatorial Guinea	1.24	1.50	1.78	2.17	1.95	2.13	1.71	1.90	2.21	16.3%	3.6%
Gabon	0.14	0.31	0.52	0.52	0.46	0.45	0.47	0.49	0.44	-9.5%	3.3%
Ghana	0.00	0.41	1.24	0.72	1.20	1.53	2.17	3.15	3.55	12.7%	21.6%
Libya	5.55	6.71	7.96	10.23	9.22	8.91	8.07	8.07	10.20	26.3%	3.9%
Morocco	0.44	0.66	1.18	1.20	1.19	1.07	1.02	0.79	0.79	-0.1%	1.6%
Mozambique	0.02	0.08	0.86	0.91	0.82	0.82	0.88	0.84	0.82	-2.8%	23.7%
Nigeria	10.48	10.26	16.49	17.50	16.47	17.45	17.84	17.94	20.45	14.0%	6.5%
Senegal	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	-2.6%	-3.8%
South Africa	3.21	4.51	4.99	4.94	4.79	4.95	5.00	4.90	5.23	6.7%	1.4%
Tanzania	0.39	0.75	0.85	0.81	0.75	0.72	0.95	0.85	0.89	5.7%	1.6%
Tunisia	3.60	5.91	5.88	6.06	6.32	6.39	6.43	6.13	6.62	8.1%	1.0%
Others Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.1%	1.7%

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Consumption

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	398.03	563.46	682.40	706.89	734.44	790.08	818.36	828.16	845.94	2.1%	3.8%
Australia	22.06	31.84	38.53	35.46	36.38	37.85	39.83	44.12	41.88	-5.1%	2.5%
Bangladesh	12.57	19.28	24.88	27.18	27.19	27.12	30.19	30.49	32.38	6.2%	4.8%
Brunei	2.14	3.11	2.49	2.71	3.43	3.45	3.03	2.71	2.42	-10.5%	-2.2%
China	45.11	103.95	184.44	198.61	227.01	265.92	288.63	308.37	321.18	4.2%	10.8%
Hong Kong	2.55	3.64	3.09	3.17	3.16	3.06	3.16	5.01	5.11	2.0%	3.1%
India	37.00	63.27	52.48	55.80	59.34	60.95	64.53	61.16	61.03	-0.2%	-0.3%
Indonesia	34.04	45.15	44.04	45.46	45.06	45.28	45.60	39.66	39.41	-0.6%	-1.2%
Japan	82.17	100.02	116.83	119.71	116.29	111.40	106.99	107.18	104.57	-2.4%	0.4%
Malaysia	37.07	36.28	43.66	41.59	37.46	45.11	45.62	41.79	43.18	3.3%	1.6%
Myanmar	2.66	1.49	3.52	4.10	4.23	3.76	3.08	3.54	3.02	-14.7%	6.6%
New Zealand	3.75	4.34	4.76	4.90	4.94	4.48	4.65	4.51	3.84	-15.0%	-1.1%
Pakistan	29.82	31.40	30.89	31.05	30.28	36.87	35.12	33.78	35.19	4.2%	1.0%
Philippines	3.14	3.55	3.34	3.83	3.78	4.22	4.25	3.85	3.29	-14.6%	-0.7%
Singapore	5.83	7.55	9.94	10.19	10.24	10.46	10.62	10.36	10.40	0.4%	3.0%
South Korea	31.84	44.93	45.76	48.05	50.26	55.27	56.84	57.55	63.09	9.6%	3.1%
Taiwan	10.35	15.42	20.12	21.03	23.12	23.34	22.99	24.83	27.23	9.6%	5.3%
Thailand	30.16	38.34	43.90	42.96	41.88	41.30	42.61	40.14	41.21	2.7%	0.7%
Vietnam	5.46	9.45	9.19	10.48	9.60	9.61	9.93	8.61	6.98	-18.9%	-2.7%
Others Asia Pacific	0.32	0.44	0.56	0.61	0.80	0.63	0.67	0.49	0.55	12.8%	2.0%

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Consumption

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	860.67	942.12	1,097.27	1,121.35	1,116.79	1,188.54	1,239.78	1,204.92	1,208.00	0.3%	2.3%
Argentina	41.46	43.26	49.89	50.47	51.55	50.62	49.71	46.57	46.68	0.3%	0.7%
Bolivia	2.24	2.89	3.88	4.33	4.39	4.42	4.13	3.36	4.08	21.5%	3.2%
Brazil	20.55	28.28	43.25	36.67	38.87	36.63	37.04	34.96	42.71	22.2%	3.8%
Canada	94.39	88.03	99.36	120.44	129.42	135.80	136.75	130.91	133.80	2.2%	3.9%
Chile	7.91	5.20	4.63	5.06	5.05	5.07	6.12	5.61	5.75	2.5%	0.9%
Colombia	7.12	9.57	11.74	11.15	11.42	11.92	12.31	12.17	11.50	-5.5%	1.7%
Cuba	0.69	0.99	1.15	1.10	0.97	0.90	0.88	0.83	0.83	0.0%	-1.6%
Dominican Republic	0.20	0.79	1.09	1.03	1.18	1.18	1.26	1.31	1.71	30.1%	7.3%
Ecuador	0.32	0.49	0.65	0.70	0.63	0.55	0.48	0.41	0.42	3.4%	-1.4%
Jamaica	0.00	0.00	0.00	0.03	0.19	0.23	0.27	0.65	0.49	-24.9%	
Mexico	53.62	63.08	75.20	76.97	72.80	84.31	79.84	93.24	95.35	2.3%	3.8%
Panama	0.00	0.00	0.00	0.00	0.00	0.26	0.80	0.43	0.41	-4.4%	
Peru	1.89	6.39	9.17	9.65	8.16	8.44	8.85	7.44	8.96	20.4%	3.1%
Trinidad and Tobago	17.10	21.35	20.16	17.89	17.57	18.18	18.51	15.74	15.81	0.5%	-2.7%
United States	589.89	646.72	751.89	759.30	748.90	807.08	863.29	836.24	822.96	-1.6%	2.2%
Uruguay	0.10	0.07	0.05	0.06	0.07	0.06	0.09	0.07	0.08	14.7%	0.6%
Venezuela	22.53	24.23	23.60	24.78	24.30	21.19	17.52	13.07	14.53	11.2%	-4.5%
Others Americas	0.67	0.77	1.55	1.72	1.31	1.69	1.92	1.92	1.92	-0.1%	8.6%

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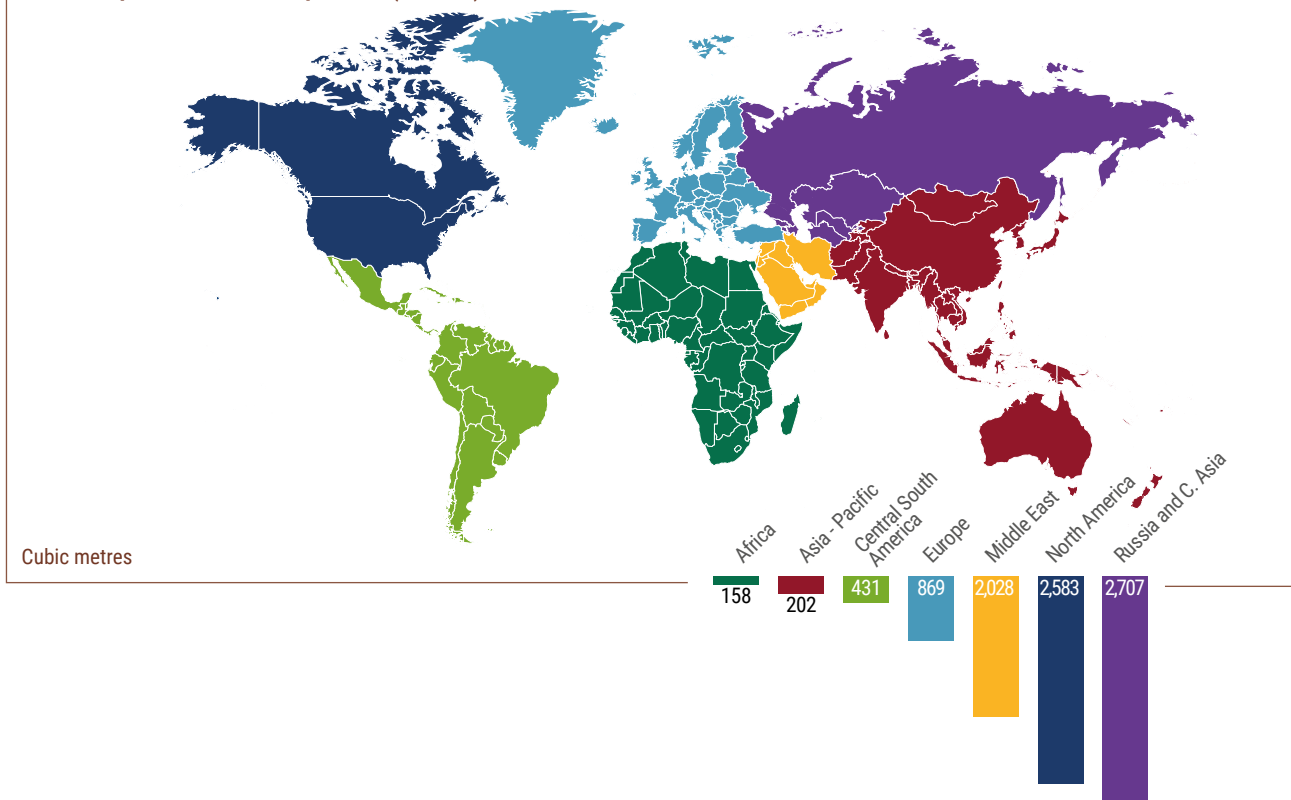
Per Capita Consumption

Areas and Aggregates (*)

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	1,003	991	779	815	848	834	835	815	869
Russia and Central Asia	2,258	2,470	2,206	2,250	2,309	2,570	2,522	2,455	2,707
Middle East	1,311	1,667	1,886	1,931	1,970	1,965	1,983	1,986	2,028
Africa	120	127	140	146	151	156	155	149	158
Asia - Pacific	111	149	171	176	181	193	198	199	202
Americas	1,033	1,074	1,194	1,209	1,194	1,261	1,306	1,262	1,260
- North America	2,082	2,136	2,377	2,437	2,416	2,576	2,716	2,616	2,583
- Central South America	376	408	452	438	428	435	420	412	431
World	442	483	487	499	506	528	536	524	541
European Union 27	849	840	679	717	756	741	763	743	781
MENA	910	1,139	1,282	1,322	1,360	1,367	1,376	1,363	1,405
OECD	1,150	1,206	1,216	1,254	1,260	1,303	1,340	1,316	1,332
NON OECD	265	308	316	322	331	350	351	344	362
OPEC	748	876	979	1,008	1,014	1,006	1,004	990	1,013
NON OPEC	423	457	453	462	469	493	501	490	505

Per Capita Consumption (2021)



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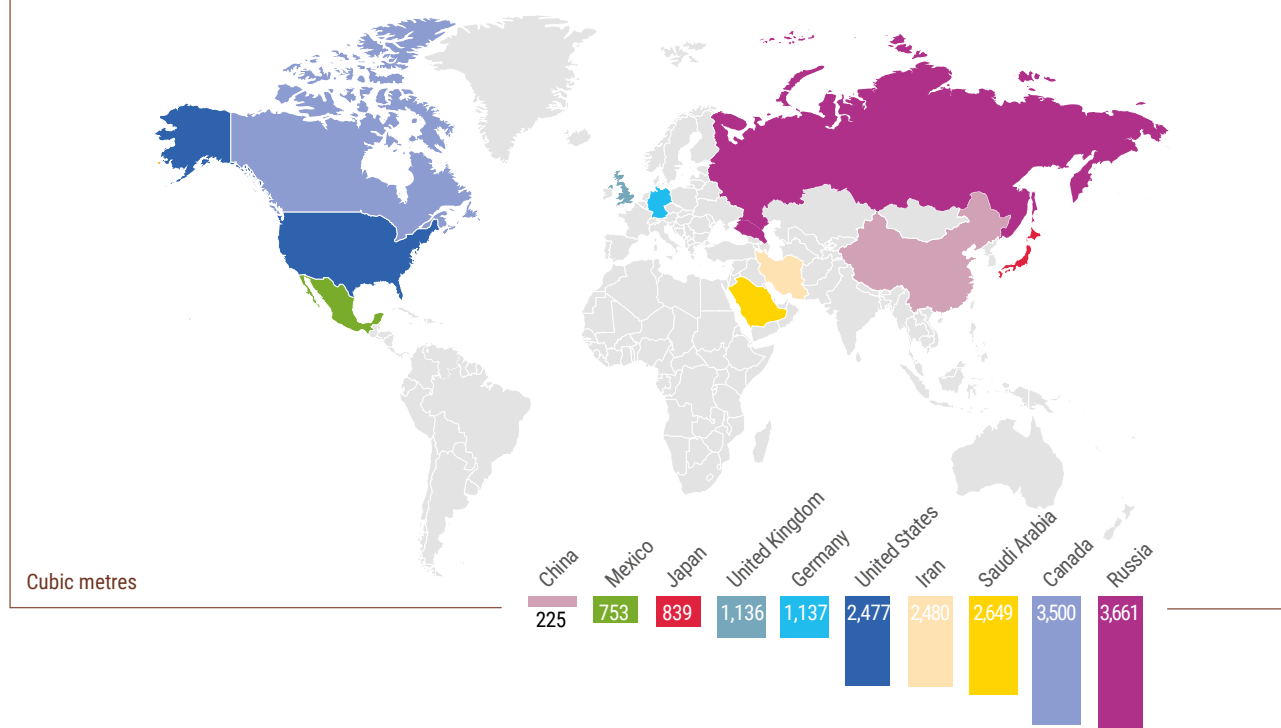
Per Capita Consumption

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

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia	2,828	3,114	2,928	2,976	3,078	3,418	3,336	3,264	3,661
Canada	2,931	2,592	2,785	3,341	3,546	3,670	3,643	3,445	3,500
Saudi Arabia	2,191	2,369	2,531	2,581	2,653	2,627	2,603	2,607	2,649
Iran	1,389	1,885	2,208	2,322	2,431	2,483	2,437	2,442	2,480
United States	1,990	2,086	2,332	2,337	2,289	2,453	2,611	2,521	2,477
Germany	1,114	1,085	923	993	1,060	1,032	1,058	1,041	1,137
United Kingdom	1,646	1,572	1,103	1,225	1,184	1,168	1,143	1,074	1,136
Japan	643	781	918	943	918	882	851	856	839
Mexico	509	561	626	633	593	680	638	740	753
China	35	77	132	142	161	188	203	216	225

The World Top 10 (2021)



(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* and IHS Global Insight data. All rights reserved.

Per Capita Consumption

Countries (*)

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	1,003	991	779	815	848	834	835	815	869
Albania	3	5	11	14	15	13	23	17	18
Austria	1,143	1,130	930	964	1,028	969	1,005	951	1,008
Belarus	2,057	2,235	1,951	1,938	1,982	2,102	2,009	1,856	1,962
Belgium	1,630	1,790	1,442	1,462	1,485	1,524	1,535	1,522	1,522
Bosnia Herzegovina	93	63	60	63	69	70	66	61	71
Bulgaria	424	360	419	437	452	431	406	421	479
Croatia	622	701	569	598	692	641	678	717	702
Czech Republic	873	891	711	768	787	744	779	790	846
Denmark	941	926	585	587	557	539	508	422	371
Estonia	686	491	345	378	358	364	334	305	330
Finland	800	832	475	436	408	458	448	444	444
France	789	794	639	696	698	666	678	629	667
Germany	1,114	1,085	923	993	1,060	1,032	1,058	1,041	1,137
Greece	246	341	288	378	457	450	494	545	607
Hungary	1,395	1,150	891	957	1,021	991	1,016	1,055	1,121
Ireland	986	1,209	937	1,047	1,051	1,080	1,083	1,071	1,021
Italy	1,412	1,323	1,068	1,124	1,193	1,156	1,188	1,141	1,228
Latvia	707	809	641	656	591	702	670	558	598
Lithuania	854	923	811	730	769	718	761	813	783
Luxembourg	2,943	2,744	1,571	1,414	1,352	1,308	1,283	1,146	1,218
Malta	0	0	0	0	586	693	707	718	704
Moldova	960	937	871	885	827	911	949	963	1,065
Netherlands	2,526	2,804	1,954	2,040	2,098	2,068	2,146	2,097	2,003
North Macedonia	36	54	63	98	126	117	136	156	196
Norway	1,024	1,518	1,389	1,237	1,098	1,206	1,083	982	1,079
Poland	371	389	421	448	473	495	498	526	561
Portugal	415	493	455	487	611	568	597	584	560
Romania	756	613	520	530	569	587	551	579	608
Serbia	304	296	287	312	351	355	334	335	405
Slovakia	1,267	1,077	830	832	883	870	871	871	969
Slovenia	539	488	371	392	409	400	405	404	425
Spain	795	777	615	627	681	673	762	686	720
Sweden	108	182	85	96	106	115	107	141	126
Switzerland	436	447	401	416	414	390	397	384	415
Turkey	386	499	575	549	627	576	516	549	674
Ukraine	1,628	1,407	674	664	639	673	615	632	620
United Kingdom	1,646	1,572	1,103	1,225	1,184	1,168	1,143	1,074	1,136

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Per Capita Consumption

Countries (*)

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia and Central Asia	2,258	2,470	2,206	2,250	2,309	2,570	2,522	2,455	2,707
Russia	2,828	3,114	2,928	2,976	3,078	3,418	3,336	3,264	3,661
Armenia	522	522	769	733	770	805	840	840	905
Azerbaijan	1,088	988	1,130	1,096	1,054	1,065	1,198	1,202	1,233
Georgia	312	308	640	602	634	631	715	718	679
Kazakhstan	926	1,561	692	921	889	1,168	1,248	1,236	1,092
Kyrgyzstan	141	53	45	46	48	52	49	51	50
Tajikistan	92	25	0	0	0	6	24	24	23
Turkmenistan	3,188	3,964	3,606	3,544	3,485	3,430	3,519	3,607	3,951
Uzbekistan	1,612	1,574	1,141	1,181	1,225	1,476	1,424	1,300	1,438
	2005	2010	2015	2016	2017	2018	2019	2020	2021
Middle East	1,311	1,667	1,886	1,931	1,970	1,965	1,983	1,986	2,028
Bahrain	10,771	10,128	10,385	9,926	9,617	9,531	10,483	10,664	11,175
Iran	1,389	1,885	2,208	2,322	2,431	2,483	2,437	2,442	2,480
Iraq	60	156	175	188	278	346	395	404	470
Israel	227	699	875	977	1,021	1,062	1,040	1,086	1,112
Jordan	280	397	237	402	406	388	372	346	279
Kuwait	5,227	4,686	5,080	5,179	5,166	5,035	5,294	6,024	6,518
Lebanon	0	49	0	0	0	0	0	0	0
Oman	3,440	6,015	5,850	5,597	5,315	5,756	5,779	5,902	6,423
Qatar	18,873	15,190	17,617	15,821	16,320	16,007	15,828	15,984	17,474
Saudi Arabia	2,191	2,369	2,531	2,581	2,653	2,627	2,603	2,607	2,649
Syria	313	425	225	202	204	205	195	167	168
United Arab Emirates	9,569	6,767	7,856	7,887	7,115	6,205	6,943	7,006	7,025
Yemen	0	41	36	18	11	4	3	4	4

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Per Capita Consumption

Countries (*)

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Africa	120	127	140	146	151	156	155	149	158
Algeria	724	756	1,012	999	1,015	1,079	1,093	1,032	1,073
Angola	32	30	26	26	26	35	38	38	25
Cameroon	0	15	21	22	23	30	26	33	24
Congo	6	23	103	115	118	130	178	181	177
Côte d'Ivoire	77	73	83	81	88	80	83	83	86
Egypt	441	477	438	483	558	580	580	552	594
Equatorial Guinea	1,648	1,591	1,520	1,789	1,546	1,627	1,264	1,353	1,522
Gabon	103	201	296	290	251	239	244	251	223
Ghana	0	16	43	25	40	49	69	98	108
Libya	957	1,082	1,241	1,576	1,402	1,334	1,190	1,175	1,465
Morocco	14	20	34	34	34	30	28	22	21
Mozambique	1	3	32	33	29	28	29	27	26
Nigeria	75	64	90	93	85	88	88	86	96
Senegal	2	2	2	1	2	1	1	1	1
South Africa	65	87	89	88	85	86	86	83	88
Tanzania	10	17	16	15	13	12	16	14	14
Tunisia	346	543	509	518	535	536	533	504	540
Others Africa	0	0	0	0	0	0	0	0	0

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Per Capita Consumption

Countries (*)

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Asia - Pacific	111	149	171	176	181	193	198	199	202
Australia	1,094	1,446	1,617	1,466	1,479	1,515	1,571	1,719	1,615
Bangladesh	89	130	158	170	168	166	182	182	191
Brunei	5,856	8,012	5,991	6,465	8,073	8,034	7,004	6,192	5,492
China	35	77	132	142	161	188	203	216	225
Hong Kong	367	511	417	426	423	409	421	668	682
India	32	51	40	42	44	45	47	44	43
Indonesia	149	185	170	174	170	170	169	146	144
Japan	643	781	918	943	918	882	851	856	839
Malaysia	1,430	1,263	1,405	1,319	1,172	1,392	1,391	1,259	1,286
Myanmar	54	30	67	77	79	70	57	65	55
New Zealand	908	998	1,036	1,049	1,040	925	939	892	748
Pakistan	171	161	146	145	140	168	157	149	152
Philippines	36	37	32	37	35	39	38	34	29
Singapore	1,342	1,462	1,759	1,783	1,777	1,799	1,810	1,754	1,751
South Korea	665	921	897	936	976	1,070	1,097	1,110	1,217
Taiwan	454	668	856	891	977	984	967	1,042	1,141
Thailand	458	562	625	608	591	581	598	562	576
Vietnam	66	108	100	112	102	101	104	89	72
Others Asia - Pacific	9	11	12	12	16	12	13	9	10

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Per Capita Consumption

Countries (*)

(cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Americas	1,033	1,074	1,194	1,209	1,194	1,261	1,306	1,262	1,260
Argentina	1,061	1,053	1,153	1,156	1,170	1,140	1,111	1,034	1,031
Bolivia	239	282	350	384	383	381	350	281	338
Brazil	110	144	211	177	186	174	175	164	199
Canada	2,931	2,592	2,785	3,341	3,546	3,670	3,643	3,445	3,500
Chile	489	306	259	280	275	271	322	291	295
Colombia	169	214	249	234	236	242	245	239	223
Cuba	61	88	102	97	86	79	78	73	73
Dominican Republic	22	80	105	98	111	109	115	119	154
Ecuador	23	33	40	43	38	32	28	23	24
Jamaica	0	0	0	11	69	83	96	229	172
Mexico	509	561	626	633	593	680	638	740	753
Panama	0	0	0	0	0	62	190	101	95
Peru	67	219	299	310	258	262	270	223	266
Trinidad and Tobago	13,188	16,074	14,710	12,987	12,696	13,081	13,267	11,244	11,269
United States	1,990	2,086	2,332	2,337	2,289	2,453	2,611	2,521	2,477
Uruguay	31	22	16	18	20	19	27	20	23
Venezuela	845	844	773	806	795	711	605	459	515
Others Americas	111	127	287	323	251	332	384	389	390

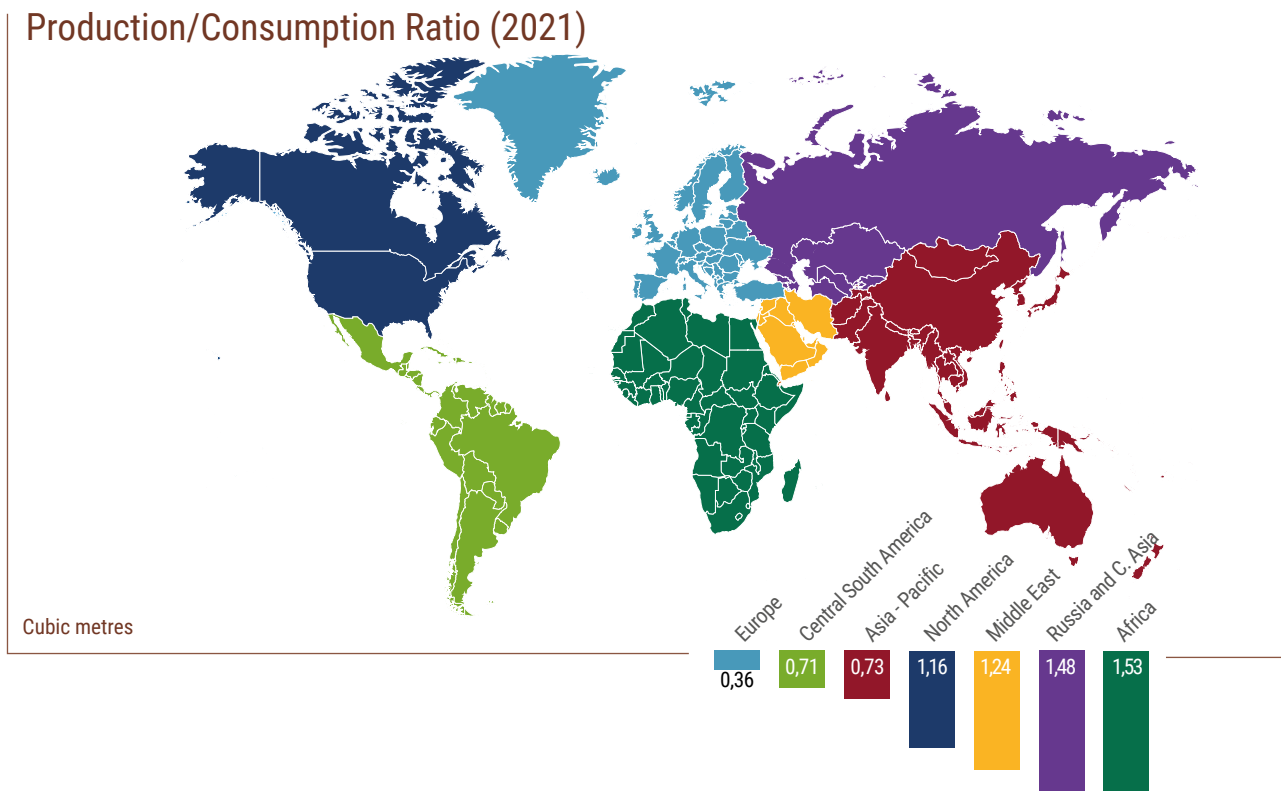
(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* and IHS Global Insight data. All rights reserved.

Production/Consumption Ratio

Areas and Aggregates (*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	0.50	0.48	0.50	0.48	0.46	0.45	0.42	0.40	0.36
Russia and Central Asia	1.49	1.41	1.54	1.53	1.59	1.49	1.56	1.50	1.48
Middle East	1.19	1.27	1.26	1.26	1.25	1.25	1.26	1.25	1.24
Africa	2.12	1.98	1.54	1.54	1.57	1.56	1.53	1.49	1.53
Asia - Pacific	0.91	0.84	0.75	0.75	0.75	0.74	0.75	0.74	0.73
Americas	0.99	0.99	1.02	1.00	1.02	1.02	1.06	1.06	1.07
- North America	0.98	0.99	1.06	1.03	1.06	1.07	1.11	1.13	1.16
- Central South America	1.02	1.00	0.87	0.86	0.86	0.83	0.84	0.77	0.71
World	1.00	0.99	1.01	1.00	1.01	1.00	1.02	1.00	1.00
European Union 27	0.31	0.30	0.24	0.23	0.20	0.18	0.16	0.13	0.11
MENA	1.41	1.39	1.29	1.29	1.28	1.28	1.28	1.26	1.28
OECD	0.75	0.73	0.79	0.77	0.79	0.80	0.84	0.84	0.83
NON OECD	1.28	1.24	1.22	1.21	1.21	1.18	1.19	1.15	1.14
OPEC	1.32	1.21	1.14	1.15	1.17	1.17	1.16	1.14	1.14
NON OPEC	0.97	0.96	1.00	0.98	0.99	0.98	1.00	0.98	0.98

Production/Consumption Ratio (2021)



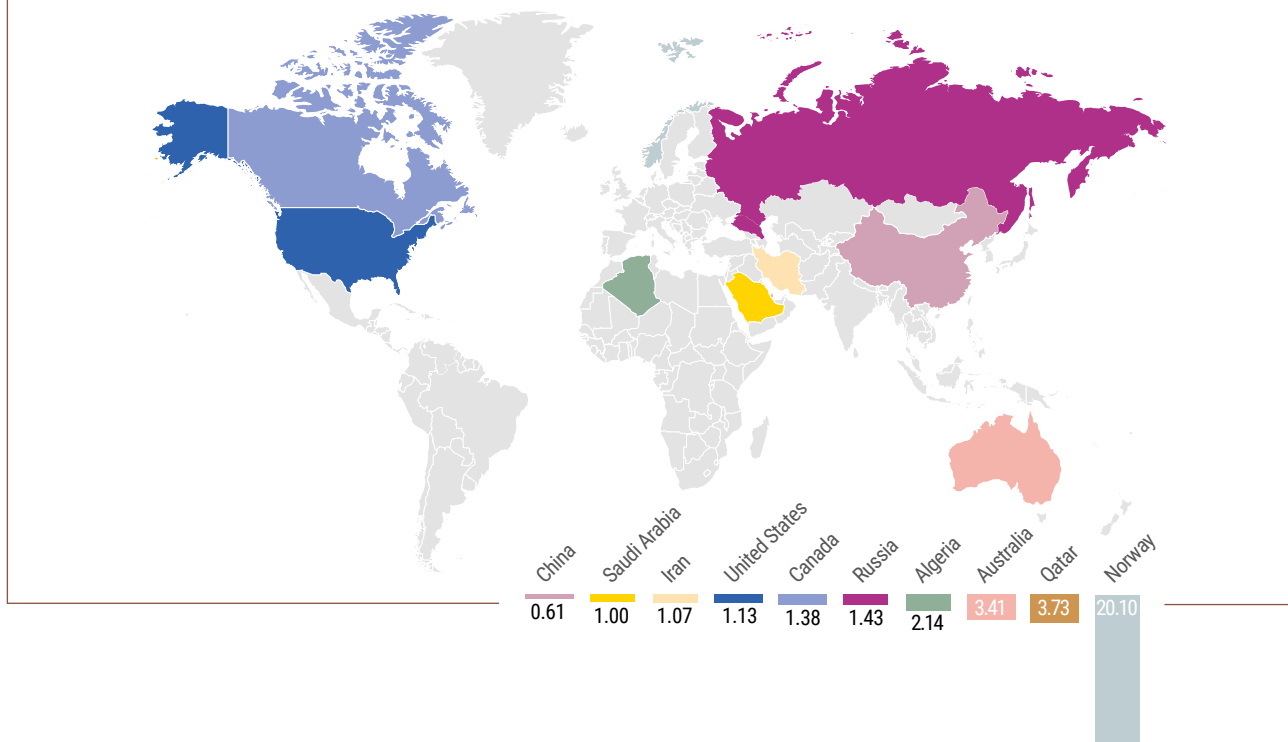
(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* and, for Italy, on Ministry for Ecological Transition data. All rights reserved.

Production/Consumption Ratio

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

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Norway	18.43	14.85	16.60	18.38	21.90	19.38	20.25	21.58	20.10
Qatar	2.89	4.79	4.01	4.21	3.89	3.87	3.90	3.91	3.73
Australia	1.65	1.62	1.76	2.27	2.82	3.11	3.44	3.36	3.41
Algeria	3.68	3.09	2.08	2.32	2.28	2.12	1.91	1.87	2.14
Russia	1.48	1.41	1.44	1.45	1.51	1.42	1.51	1.45	1.43
Canada	1.91	1.71	1.63	1.49	1.44	1.41	1.35	1.38	1.38
United States	0.83	0.89	0.98	0.96	1.00	1.01	1.08	1.10	1.13
Iran	1.00	1.00	1.00	1.02	1.04	1.05	1.09	1.07	1.07
Saudi Arabia	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
China	1.06	0.90	0.71	0.67	0.63	0.59	0.59	0.61	0.61

The World Top 10 (2021)



(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* data. All rights reserved.

Production/Consumption Ratio

Countries (*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	0.50	0.48	0.50	0.48	0.46	0.45	0.42	0.40	0.36
Albania	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Austria	0.16	0.17	0.15	0.13	0.13	0.12	0.10	0.09	0.07
Belarus	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bulgaria	0.14	0.03	0.03	0.03	0.02	0.01	0.01	0.02	0.01
Croatia	0.79	0.84	0.71	0.63	0.49	0.44	0.35	0.28	0.25
Czech Republic	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02
Denmark	2.13	1.66	1.45	1.41	1.58	1.38	1.09	0.56	0.58
France	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Germany	0.18	0.15	0.10	0.09	0.08	0.06	0.06	0.05	0.05
Greece	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hungary	0.19	0.23	0.18	0.18	0.17	0.18	0.16	0.15	0.13
Ireland	0.14	0.05	0.03	0.59	0.66	0.61	0.47	0.36	0.29
Italy	0.14	0.10	0.10	0.08	0.07	0.07	0.07	0.06	0.04
Netherlands	1.59	1.62	1.38	1.27	1.05	0.90	0.75	0.55	0.51
Norway	18.43	14.85	16.60	18.38	21.90	19.38	20.25	21.58	20.10
Poland	0.32	0.29	0.27	0.24	0.23	0.22	0.21	0.20	0.18
Romania	0.70	0.80	0.99	0.86	0.89	0.86	0.89	0.76	0.74
Serbia	0.12	0.17	0.26	0.22	0.18	0.17	0.18	0.16	0.12
Slovakia	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.01	0.01
Slovenia	0.00	0.01	0.00	0.01	0.01	0.02	0.01	0.01	0.01
Spain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turkey	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ukraine	0.24	0.28	0.57	0.59	0.63	0.64	0.70	0.66	0.63
United Kingdom	0.93	0.59	0.56	0.52	0.53	0.52	0.51	0.55	0.43

(*) Data source: Eni's calculations on IEA (2021) *Extended Balances* and, for Italy, on Ministry for Ecological Transition data. All rights reserved.

Production/Consumption Ratio

Countries (*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Russia and Central Asia	1.49	1.41	1.54	1.53	1.59	1.49	1.56	1.50	1.48
Russia	1.48	1.41	1.44	1.45	1.51	1.42	1.51	1.45	1.43
Azerbaijan	0.57	1.78	1.69	1.67	1.67	1.73	1.95	2.09	2.50
Georgia	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Kazakhstan	1.27	1.10	2.20	1.86	2.23	1.81	1.43	1.30	1.41
Kyrgyzstan	0.03	0.08	0.11	0.09	0.08	0.08	0.07	0.06	0.06
Tajikistan	0.04	0.12	1.00	1.00	1.00	0.01	0.00	0.00	0.00
Turkmenistan	3.94	2.13	3.95	3.77	3.80	3.99	3.93	3.60	3.53
Uzbekistan	1.21	1.25	1.31	1.28	1.23	1.22	1.22	1.08	1.04
Middle East	1.19	1.27	1.26	1.26	1.25	1.25	1.26	1.25	1.24
Bahrain	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Iran	1.00	1.00	1.00	1.02	1.04	1.05	1.09	1.07	1.07
Iraq	1.00	1.00	1.00	1.00	0.87	0.72	0.65	0.60	0.55
Israel	1.00	0.61	0.98	0.96	0.96	0.93	0.94	1.30	1.57
Jordan	0.13	0.06	0.05	0.03	0.02	0.02	0.02	0.04	0.05
Kuwait	1.00	0.81	0.81	0.77	0.75	0.78	0.79	0.78	0.72
Oman	2.41	1.59	1.34	1.36	1.40	1.44	1.45	1.45	1.44
Qatar	2.89	4.79	4.01	4.21	3.89	3.87	3.90	3.91	3.73
Saudi Arabia	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Syria	1.00	0.93	1.00	1.00	1.00	1.00	1.00	1.00	1.00
United Arab Emirates	1.14	0.84	0.81	0.82	0.79	0.80	0.81	0.80	0.81
Yemen		6.57	2.97	1.00	1.00	1.00	1.00	1.00	1.00

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Production/Consumption Ratio

Countries (*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Africa	2.12	1.98	1.54	1.54	1.57	1.56	1.53	1.49	1.53
Algeria	3.68	3.09	2.08	2.32	2.28	2.12	1.91	1.87	2.14
Angola	1.00	1.00	1.00	2.14	6.90	5.59	5.23	5.68	6.40
Cameroon		1.00	1.00	1.00	1.00	2.05	3.32	2.62	3.30
Congo	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Côte d'Ivoire	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Egypt	1.42	1.30	0.85	0.84	0.89	0.99	1.08	1.00	1.06
Equatorial Guinea	1.00	4.14	3.98	3.44	4.01	3.46	3.46	3.02	3.02
Gabon	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ghana		0.00	0.56	0.85	0.74	0.56	0.72	0.80	0.82
Libya	1.94	2.38	1.85	1.45	1.47	1.48	1.67	1.53	1.42
Morocco	0.09	0.08	0.07	0.06	0.06	0.07	0.09	0.11	0.12
Mozambique	104.68	39.54	5.48	5.30	5.85	5.84	5.41	5.49	5.62
Nigeria	2.19	3.01	2.52	2.29	2.60	2.49	2.46	2.46	2.06
Senegal	1.00	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00
South Africa	0.65	0.33	0.22	0.21	0.17	0.20	0.22	0.22	0.19
Tanzania	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tunisia	0.64	0.61	0.50	0.44	0.39	0.37	0.34	0.37	0.39
Others Africa	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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Production/Consumption Ratio

Countries ^(*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Asia - Pacific	0.91	0.84	0.75	0.75	0.75	0.74	0.75	0.74	0.73
Australia	1.65	1.62	1.76	2.27	2.82	3.11	3.44	3.36	3.41
Bangladesh	1.00	1.00	1.00	1.00	1.00	1.00	0.89	0.81	0.78
Brunei	5.44	3.84	4.40	3.89	3.38	3.60	3.51	3.83	3.90
China	1.06	0.90	0.71	0.67	0.63	0.59	0.59	0.61	0.61
India	0.82	0.79	0.58	0.54	0.52	0.51	0.46	0.44	0.50
Indonesia	2.24	1.93	1.73	1.65	1.61	1.61	1.48	1.50	1.50
Japan	0.04	0.04	0.02	0.02	0.03	0.02	0.02	0.02	0.02
Malaysia	1.74	1.64	1.54	1.60	1.74	1.53	1.57	1.58	1.63
Myanmar	4.50	7.92	4.87	4.53	4.39	4.54	5.68	4.78	5.42
New Zealand	1.00	1.03	0.99	1.00	0.98	0.96	1.00	1.00	1.03
Pakistan	1.00	1.00	0.91	0.84	0.73	0.77	0.74	0.73	0.72
Philippines	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
South Korea	0.02	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Taiwan	0.05	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00
Thailand	0.71	0.75	0.68	0.68	0.66	0.64	0.66	0.63	0.62
Vietnam	1.28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Others Asia - Pacific	1.00	12.04	15.96	14.59	10.59	12.91	11.42	11.36	10.19

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Production/Consumption Ratio

Countries (*)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Americas	0.99	0.99	1.02	1.00	1.02	1.02	1.06	1.06	1.07
Argentina	1.12	0.93	0.78	0.79	0.79	0.82	0.87	0.85	0.85
Bolivia	5.30	4.96	5.41	4.63	4.44	4.09	3.83	4.53	3.90
Brazil	0.55	0.54	0.56	0.67	0.72	0.70	0.73	0.72	0.59
Canada	1.91	1.71	1.63	1.49	1.44	1.41	1.35	1.38	1.38
Chile	0.24	0.35	0.21	0.23	0.24	0.24	0.24	0.20	0.23
Colombia	1.00	1.15	1.03	1.00	1.00	1.00	0.99	0.97	0.98
Cuba	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ecuador	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mexico	0.83	0.79	0.53	0.46	0.42	0.39	0.40	0.34	0.32
Peru	1.00	1.39	1.61	1.69	1.78	1.69	1.70	1.82	1.49
Trinidad and Tobago	1.80	1.95	1.85	1.81	1.85	1.93	1.92	1.89	1.57
United States	0.83	0.89	0.98	0.96	1.00	1.01	1.08	1.10	1.13
Venezuela	1.00	0.92	0.98	1.00	1.00	1.00	1.00	1.00	1.00
Others Americas	0.02	0.03	0.01	0.01	0.02	0.02	0.01	0.01	0.01

(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* data. All rights reserved.

Natural Gas - Trade and Prices

EXPORTS

The World Top 10 Exporters
Countries

IMPORTS

The World Top 10 Importers
Countries
Imports by Country of Origin - Pipeline and LNG 2021
Imports by Country of Origin - Pipeline 2021
Imports by Country of Origin - LNG 2021

TRADED GAS

LNG - LIQUEFACTION AND REGASIFICATION CAPACITY

Liquefaction Capacity - Countries
Regasification Capacity - Countries

NATURAL GAS BALANCE - ITALY

NATURAL GAS PRICES

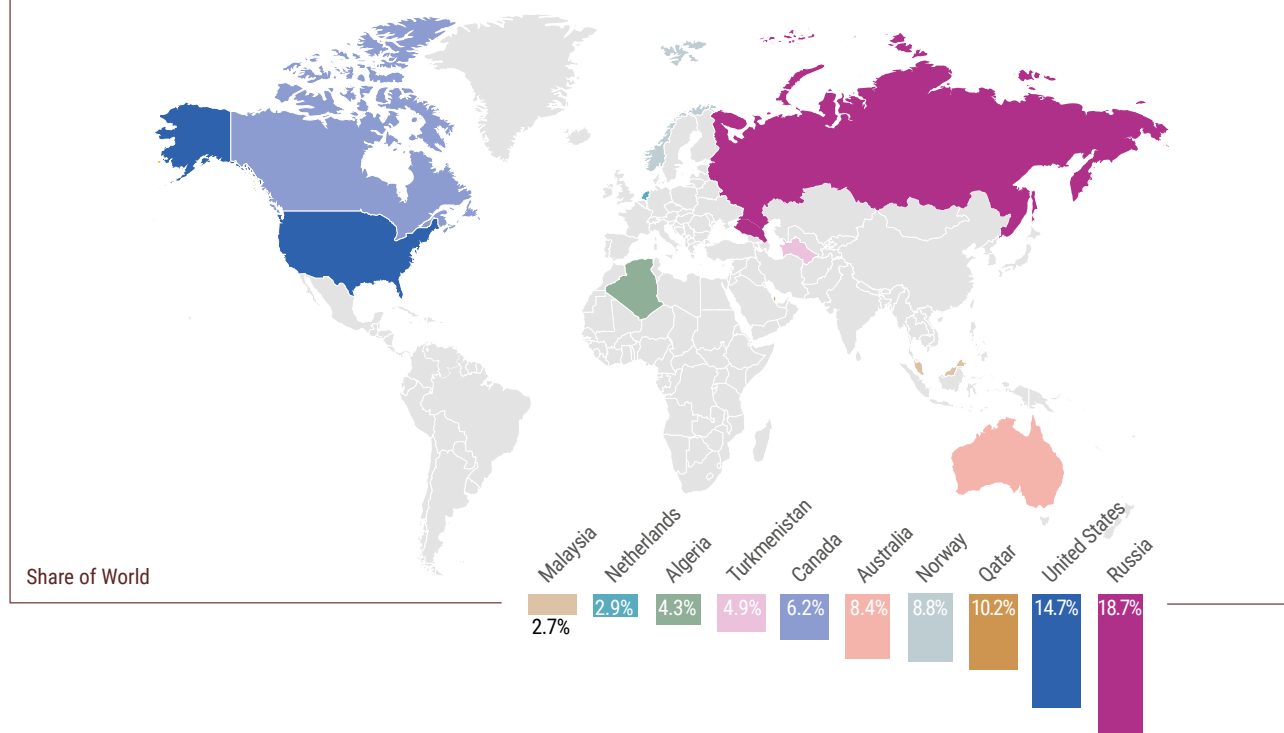
Exports

The World Top 10 Exporters (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia	194.71	179.31	191.86	203.66	218.13	234.27	248.35	228.22	235.52	3.2%	2.5%
United States	19.42	30.42	47.33	61.26	86.57	98.58	127.49	144.53	185.48	28.3%	17.9%
Qatar	30.35	98.76	128.23	131.89	128.07	127.11	129.04	128.45	128.05	-0.3%	2.4%
Norway	82.54	102.90	112.52	112.54	120.94	117.77	111.55	108.71	111.36	2.4%	0.7%
Australia	14.40	24.33	34.15	50.60	71.45	84.50	102.39	108.46	106.02	-2.3%	14.3%
Canada	101.65	92.05	76.37	82.63	83.47	78.21	74.79	69.23	77.80	12.4%	-1.5%
Turkmenistan	44.52	22.74	59.22	55.49	56.19	59.92	61.22	56.58	61.15	8.1%	9.4%
Algeria	64.07	56.58	43.03	53.38	53.42	50.86	42.31	39.03	54.15	38.7%	-0.4%
Netherlands	43.47	49.61	46.12	49.71	46.78	45.40	39.73	33.32	36.07	8.3%	-2.9%
Malaysia	28.89	31.20	32.70	32.91	35.91	31.78	34.31	32.19	34.64	7.6%	1.0%
The World Top 10	624.00	687.90	771.53	834.08	900.92	928.40	971.18	948.72	1,030.23	8.6%	3.7%
Rest of the World	219.81	265.94	281.30	260.00	286.12	259.77	268.70	248.68	230.01	-7.5%	-1.3%
World	843.82	953.84	1,052.83	1,094.08	1,187.04	1,188.17	1,239.88	1,197.40	1,260.24	5.2%	2.6%

The World Top 10 (2021)



(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Exports

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe											
Austria	1.03	4.74	5.59	6.69	5.26	5.04	2.71	9.70	5.60	-42.3%	1.5%
Belgium	0.00	3.20	1.66	0.67	0.31	1.32	4.35	3.37	2.94	-12.7%	-0.8%
Bulgaria	0.00	0.00	0.00	0.00	0.03	0.01	0.01	0.01	0.00	-100.0%	
Croatia	0.42	0.46	0.35	0.38	0.19	0.11	0.07	0.05	0.10	104.4%	-12.6%
Czech Republic	0.08	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Denmark	5.83	3.67	2.29	2.21	2.33	1.60	1.37	1.66	1.64	-0.9%	-7.1%
France	1.05	2.97	5.66	3.88	6.31	6.19	11.26	9.50	4.38	-53.9%	3.6%
Germany	19.72	19.95	31.68	22.48	31.29	0.00	0.00	0.00	0.00		-100.0%
Greece	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	-52.9%	
Hungary	0.00	0.22	0.53	1.04	3.42	4.85	6.78	4.14	2.10	-49.3%	22.9%
Italy	0.38	0.13	0.21	0.20	0.26	0.38	0.31	0.30	1.47	388.3%	24.3%
Lithuania	0.00	0.00	0.09	0.04	0.20	0.18	0.50	0.50	0.13	-74.3%	
Netherlands	43.47	49.61	46.12	49.71	46.78	45.40	39.73	33.32	36.07	8.3%	-2.9%
Norway	82.54	102.90	112.52	112.54	120.94	117.77	111.55	108.71	111.36	2.4%	0.7%
Poland	0.04	0.04	0.05	0.83	1.18	0.66	1.28	1.35	0.11	-91.9%	8.7%
Romania	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.13	0.70	430.9%	
Slovakia	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31		
Slovenia	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00		
Spain	0.00	1.17	5.12	4.03	2.91	3.29	1.14	1.19	3.06	157.8%	9.1%
Sweden	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.06	94.8%	
Turkey	0.00	0.62	0.60	0.65	0.60	0.64	0.73	0.55	0.37	-33.8%	-4.7%
Ukraine	2.59	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14		34.8%
United Kingdom	8.66	15.14	13.80	10.30	11.20	7.46	8.14	9.53	6.81	-28.5%	-7.0%

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Exports

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia											
Russia	194.71	179.31	191.86	203.66	218.13	234.27	248.35	228.22	235.52	3.2%	2.5%
Azerbaijan	0.00	6.04	7.95	7.86	8.65	9.68	11.55	13.51	18.49	36.8%	10.7%
Georgia	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00		
Kazakhstan	15.05	6.08	20.11	21.50	26.22	26.79	26.25	20.33	16.42	-19.2%	9.5%
Turkmenistan	44.52	22.74	59.22	55.49	56.19	59.92	61.22	56.58	61.15	8.1%	9.4%
Uzbekistan	10.54	11.05	10.19	9.93	8.70	11.55	11.55	2.88	1.92	-33.5%	-14.7%
Middle East											
Iran	4.66	8.35	8.92	8.92	13.01	13.68	17.97	15.79	14.26	-9.7%	5.0%
Israel	0.00	0.00	0.00	0.00	0.06	0.10	0.18	3.41	5.73	68.0%	
Jordan	0.00	0.00	0.00	0.80	1.06	0.29	0.29	0.29	0.29	-0.1%	
Oman	12.19	12.27	10.42	11.00	11.62	13.68	14.00	13.34	13.97	4.7%	1.2%
Qatar	30.35	98.76	128.23	131.89	128.07	127.11	129.04	128.45	128.05	-0.3%	2.4%
United Arab Emirates	6.96	7.45	7.05	7.12	6.70	7.00	7.17	6.32	7.01	10.9%	-0.6%
Yemen	0.00	5.30	1.89	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Africa											
Algeria	64.07	56.58	43.03	53.38	53.42	50.86	42.31	39.03	54.15	38.7%	-0.4%
Angola	0.00	0.00	0.00	0.86	4.71	5.06	5.22	5.91	4.72	-20.2%	
Cameroon	0.00	0.00	0.00	0.00	0.00	0.78	1.57	1.40	1.52	9.1%	
Egypt	14.71	12.33	0.24	1.31	1.12	2.28	4.83	2.03	3.84	89.0%	-10.1%
Equatorial Guinea	0.00	4.71	5.29	5.31	5.87	5.23	4.21	3.82	4.46	16.6%	-0.5%
Libya	5.20	9.26	6.75	4.56	4.37	4.27	5.41	4.27	4.27	0.0%	-6.8%
Mozambique	2.15	3.04	3.87	3.92	3.97	3.98	3.88	3.79	3.79	0.0%	2.0%
Nigeria	12.52	20.65	25.01	22.59	26.37	25.96	26.03	26.19	21.59	-17.6%	0.4%

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Exports

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific											
Australia	14.40	24.33	34.15	50.60	71.45	84.50	102.39	108.46	106.02	-2.3%	14.3%
Brunei	9.49	8.83	8.36	7.88	8.23	8.91	7.62	7.65	7.02	-8.2%	-2.1%
China	2.89	3.92	3.16	3.29	3.44	3.27	3.50	5.02	5.25	4.6%	2.7%
Indonesia	42.22	41.85	32.13	29.62	27.64	27.52	21.98	19.88	19.87	-0.1%	-6.5%
Malaysia	28.89	31.20	32.70	32.91	35.91	31.78	34.31	32.19	34.64	7.6%	1.0%
Myanmar	9.32	10.34	13.66	14.51	14.31	13.32	14.41	13.39	13.36	-0.2%	2.4%
Vietnam	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Others Asia Pacific	0.00	5.00	8.34	8.26	7.82	7.64	7.10	5.12	5.12	0.0%	0.2%
Americas											
Argentina	6.65	0.46	0.09	0.06	0.08	0.43	0.27	0.18	0.85	373.4%	5.8%
Bolivia	9.64	11.41	17.14	15.74	15.08	13.68	11.66	11.86	11.85	-0.1%	0.3%
Canada	101.65	92.05	76.37	82.63	83.47	78.21	74.79	69.23	77.80	12.4%	-1.5%
Chile	0.00	0.00	0.00	0.35	0.21	0.16	0.00	0.00	0.00		
Colombia	0.00	1.39	0.33	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Dominican Republic	0.00	0.00	0.00	0.00	0.04	0.03	0.04	0.07	0.05	-30.2%	
Mexico	0.25	0.92	0.03	0.03	0.02	0.01	0.01	0.00	0.00	-100.0%	-100.0%
Peru	0.00	2.48	5.58	6.69	6.37	5.84	6.23	6.10	4.36	-28.5%	5.3%
Trinidad and Tobago	13.72	20.33	17.05	14.48	14.92	16.82	17.04	14.07	9.06	-35.6%	-7.1%
United States	19.42	30.42	47.33	61.26	86.57	98.58	127.49	144.53	185.48	28.3%	17.9%

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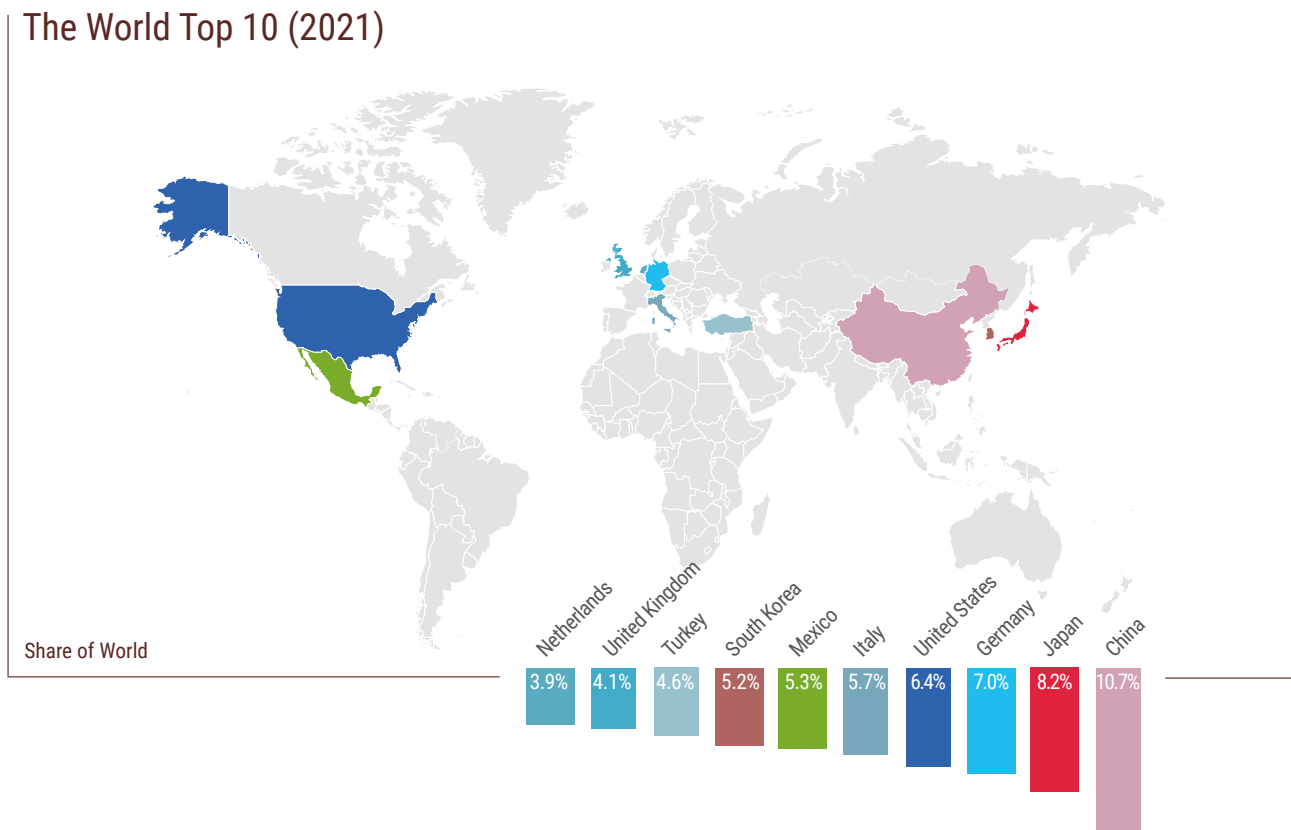
Imports

The World Top 10 Importers (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
China	0.00	14.64	56.58	68.69	86.37	113.31	120.66	126.04	131.69	4.5%	22.1%
Japan	78.92	96.12	113.79	115.39	114.22	110.16	104.64	104.47	101.09	-3.2%	0.5%
Germany	91.76	91.65	99.92	94.92	111.35	82.03	88.01	77.31	85.50	10.6%	-0.6%
United States	117.32	101.09	73.15	80.88	81.88	77.63	73.74	68.63	78.29	14.1%	-2.3%
Italy	69.97	71.77	58.36	62.18	66.34	64.65	67.69	63.24	69.53	9.9%	-0.3%
Mexico	8.94	14.70	35.09	41.35	41.53	51.37	47.71	61.43	64.93	5.7%	14.5%
South Korea	30.37	45.69	45.29	46.06	50.74	57.74	56.05	55.89	63.48	13.6%	3.0%
Turkey	25.74	36.42	46.38	44.39	52.90	48.15	43.29	46.08	56.21	22.0%	4.0%
United Kingdom	15.60	54.56	44.59	47.42	46.53	46.54	46.01	43.04	50.20	16.6%	-0.8%
Netherlands	19.12	21.46	33.91	38.26	45.20	50.75	49.42	49.84	47.91	-3.9%	7.6%
The World Top 10	457.74	548.12	607.06	639.54	697.06	702.33	697.21	695.97	748.83	7.6%	2.9%
Rest of the World	367.21	410.73	417.47	427.52	457.54	452.85	493.86	468.88	476.60	1.6%	1.4%
World	824.94	958.84	1,024.52	1,067.07	1,154.60	1,155.18	1,191.06	1,164.86	1,225.44	5.2%	2.3%

The World Top 10 (2021)



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Imports

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe											
Austria	9.35	11.85	11.42	13.93	13.42	12.59	13.68	15.91	10.19	-35.9%	-1.4%
Belarus	19.43	20.83	18.14	18.00	18.36	19.63	18.84	17.42	18.37	5.5%	-1.1%
Belgium	17.23	22.73	17.77	17.31	16.96	18.88	22.35	20.81	20.60	-1.0%	-0.9%
Bosnia Herzegovina	0.35	0.23	0.21	0.21	0.23	0.23	0.22	0.20	0.23	15.4%	-0.1%
Bulgaria	2.86	2.48	2.93	3.02	3.17	3.01	2.86	2.83	3.18	12.3%	2.3%
Croatia	1.08	1.01	1.01	1.22	1.75	1.53	1.93	2.07	2.23	7.8%	7.5%
Czech Republic	8.84	8.11	7.17	7.81	8.53	7.68	9.14	7.28	8.35	14.7%	0.3%
Denmark	0.00	0.16	0.69	0.71	0.54	0.40	1.16	2.58	2.41	-6.4%	28.1%
Estonia	0.93	0.65	0.45	0.50	0.47	0.48	0.47	0.43	0.47	8.2%	-3.0%
Finland	4.19	4.46	2.60	2.39	2.23	2.53	2.49	2.46	2.45	-0.4%	-5.3%
France	48.41	48.98	45.80	47.96	50.19	51.04	56.88	47.94	45.76	-4.6%	-0.6%
Germany	91.76	91.65	99.92	94.92	111.35	82.03	88.01	77.31	85.50	10.6%	-0.6%
Greece	2.71	3.76	3.11	4.03	4.91	4.82	5.18	5.80	6.31	8.8%	4.8%
Hungary	11.41	9.20	6.60	8.40	12.98	12.35	18.12	11.85	9.37	-20.9%	0.2%
Ireland	3.50	5.21	4.21	1.98	1.64	2.02	2.81	3.38	3.62	7.3%	-3.3%
Italy	69.97	71.77	58.36	62.18	66.34	64.65	67.69	63.24	69.53	9.9%	-0.3%
Latvia	1.67	1.05	1.26	1.07	1.18	1.34	1.28	1.06	1.12	5.8%	0.6%
Lithuania	2.90	2.89	2.49	2.20	2.42	2.22	2.67	2.77	2.33	-15.9%	-1.9%
Luxembourg	1.37	1.39	0.89	0.82	0.81	0.80	0.80	0.72	0.78	7.8%	-5.1%
Malta	0.00	0.00	0.00	0.00	0.30	0.37	0.37	0.36	0.38	7.9%	
Moldova	2.78	2.69	2.48	2.50	2.30	2.49	2.55	2.54	2.76	8.8%	0.3%
Netherlands	19.12	21.46	33.91	38.26	45.20	50.75	49.42	49.84	47.91	-3.9%	7.6%
North Macedonia	0.07	0.11	0.13	0.20	0.26	0.24	0.28	0.32	0.41	26.0%	12.6%
Norway	0.00	0.01	0.00	0.00	0.00	0.01	0.03	0.03	0.16	374.7%	34.7%
Poland	9.96	10.36	11.62	14.17	15.15	15.21	16.82	16.83	17.83	5.9%	5.1%
Portugal	4.53	5.24	4.73	4.96	6.32	5.90	6.14	5.97	5.77	-3.4%	0.9%
Romania	4.87	2.11	0.19	1.37	1.11	1.41	2.48	1.99	3.44	73.2%	4.5%
Serbia	2.00	1.82	1.61	1.66	2.02	2.04	2.10	1.84	2.19	18.8%	1.7%
Slovakia	7.03	5.82	4.29	4.21	5.08	4.25	6.49	4.19	4.97	18.6%	-1.4%
Slovenia	1.08	1.00	0.77	0.82	0.85	0.84	0.85	0.85	0.90	5.5%	-1.0%
Spain	35.18	37.16	32.78	32.79	35.04	35.23	37.65	32.87	37.41	13.8%	0.1%
Sweden	0.98	1.70	0.84	0.95	1.10	1.21	1.14	1.51	1.40	-7.2%	-1.8%
Switzerland	3.24	3.50	3.32	3.48	3.50	3.32	3.41	3.31	3.60	8.7%	0.3%
Turkey	25.74	36.42	46.38	44.39	52.90	48.15	43.29	46.08	56.21	22.0%	4.0%
Ukraine	58.72	34.38	15.46	10.24	13.10	9.84	11.06	8.59	7.47	-13.0%	-13.0%
United Kingdom	15.60	54.56	44.59	47.42	46.53	46.54	46.01	43.04	50.20	16.6%	-0.8%

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Imports

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia											
Russia	7.21	4.07	8.41	8.54	8.39	8.97	8.71	8.59	9.09	5.9%	7.6%
Armenia	1.56	1.59	2.28	2.15	2.29	2.36	2.47	2.50	2.69	7.6%	4.9%
Azerbaijan	4.41	0.00	0.00	0.29	2.06	1.76	0.00	0.00	0.00		
Georgia	1.22	1.17	2.50	2.26	2.38	2.37	2.69	2.70	2.54	-5.9%	7.3%
Kazakhstan	10.95	3.43	5.45	6.82	6.42	9.70	16.18	12.77	7.89	-38.2%	7.9%
Kyrgyzstan	0.69	0.27	0.24	0.25	0.27	0.30	0.29	0.31	0.31	0.0%	1.4%
Tajikistan	0.60	0.17	0.00	0.00	0.00	0.05	0.23	0.23	0.22	0.0%	2.8%
Uzbekistan	0.94	0.02	0.07	0.07	0.00	0.00	0.00	0.00	0.00		-100.0%
Middle East											
Iran	5.09	8.85	8.43	5.77	3.80	2.08	0.02	0.02	0.02	0.2%	-42.4%
Iraq	0.00	0.00	0.00	0.00	1.38	3.98	5.80	6.86	9.27	35.2%	
Israel	0.00	2.01	0.11	0.30	0.43	0.70	0.72	0.54	0.13	-75.7%	-22.0%
Jordan	1.40	2.50	2.14	4.64	5.05	4.20	4.12	3.88	3.23	-17.0%	2.3%
Kuwait	0.00	2.65	3.79	4.72	5.25	4.73	4.94	5.84	7.66	31.2%	10.1%
Lebanon	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Oman	0.00	1.97	2.06	2.04	2.04	2.07	2.07	1.66	1.38	-16.7%	-3.2%
Syria	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
United Arab Emirates	1.33	16.54	20.41	19.79	20.27	18.52	19.23	19.52	19.35	-0.9%	1.4%
Africa											
Egypt	0.00	0.00	6.62	9.08	7.64	2.91	0.00	2.04	0.00	-100.0%	
Ghana	0.00	0.41	0.54	0.11	0.31	0.67	0.61	0.64	0.64	-0.1%	4.1%
Morocco	0.40	0.61	1.10	1.13	1.12	1.00	0.93	0.70	0.69	-1.6%	1.2%
South Africa	1.13	3.04	3.87	3.92	3.97	3.98	3.88	3.83	4.22	10.2%	3.0%
Tunisia	1.28	2.34	2.95	3.41	3.83	4.01	4.22	3.89	3.98	2.4%	5.0%

(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Imports

Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific											
Australia	0.00	4.44	5.02	5.66	5.16	4.66	5.05	4.49	5.19	15.5%	1.4%
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	3.25	5.70	7.18	25.9%	
China	0.00	14.64	56.58	68.69	86.37	113.31	120.66	126.04	131.69	4.5%	22.1%
Hong Kong	2.55	3.64	3.09	3.17	3.16	3.06	3.16	5.01	5.11	2.0%	3.1%
India	6.83	13.30	22.14	25.72	28.40	29.70	35.03	34.08	30.55	-10.3%	7.9%
Japan	78.92	96.12	113.79	115.39	114.22	110.16	104.64	104.47	101.09	-3.2%	0.5%
Malaysia	1.56	8.16	9.09	7.94	8.14	8.09	8.47	7.98	7.27	-8.9%	-1.0%
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Pakistan	0.00	0.00	2.66	4.92	8.28	9.85	9.85	8.98	9.91	10.3%	
Singapore	5.83	7.55	9.89	10.13	10.33	10.42	10.62	10.36	10.40	0.4%	3.0%
South Korea	30.37	45.69	45.29	46.06	50.74	57.74	56.05	55.89	63.48	13.6%	3.0%
Taiwan	9.81	15.20	19.83	20.67	23.00	23.48	23.10	24.79	27.12	9.4%	5.4%
Thailand	8.64	9.58	13.91	13.54	14.41	14.71	14.56	14.99	15.80	5.4%	4.7%
Others Asia - Pacific	0.00	0.15	0.00	0.01	0.17	0.09	0.13	0.10	0.10	0.4%	-4.1%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas											
Argentina	1.68	3.47	11.12	10.63	11.07	9.49	6.63	7.03	7.98	13.5%	7.9%
Brazil	9.21	12.94	18.84	12.00	10.97	10.84	10.03	9.84	17.25	75.3%	2.6%
Canada	9.11	21.78	19.25	21.84	24.77	22.76	25.45	23.08	23.65	2.5%	0.8%
Chile	6.14	3.50	3.64	4.25	4.08	4.02	4.69	4.42	4.41	-0.3%	2.1%
Colombia	0.00	0.00	0.00	0.01	0.01	0.01	0.15	0.34	0.26	-23.5%	
Dominican Republic	0.24	0.79	1.11	1.02	1.22	1.19	1.31	1.40	1.76	25.7%	7.5%
Jamaica	0.00	0.00	0.00	0.03	0.19	0.23	0.24	0.67	0.49	-27.8%	
Mexico	8.94	14.70	35.09	41.35	41.53	51.37	47.71	61.43	64.93	5.7%	14.5%
Panama	0.00	0.00	0.00	0.00	0.00	0.26	0.80	0.43	0.41	-4.4%	
United States	117.32	101.09	73.15	80.88	81.88	77.63	73.74	68.63	78.29	14.1%	-2.3%
Uruguay	0.10	0.07	0.05	0.06	0.07	0.06	0.09	0.07	0.08	14.7%	0.6%
Venezuela	0.00	1.95	0.36	0.00	0.00	0.00	0.00	0.00	0.00		-100.0%
Others Americas	0.65	0.75	1.53	1.69	1.28	1.66	1.90	1.90	1.90	0.0%	8.8%

(*) Data source: the original data are from IEA (2022) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Natural Gas - Imports by Country of Origin - Pipeline 2021

(billion cubic metres)

		EUROPE																																	
		Austria	Belgium	Belarus	Bosnia Herzegovina	Bulgaria	Croatia	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy	Latvia	Lithuania	Luxembourg	North Macedonia	Moldova	Netherlands	Poland	Portugal	Romania	Serbia	Slovakia	Slovenia	Spain	Sweden	Switzerland	Turkey	Ukraine	United Kingdom
Importers	►																																		
Exporters	▼																																		
Europe																																			
Austria					0.06																							0.86					0.33		
Belgium											0.45									0.09									0.00					1.83	
Bulgaria																									0.69										
Croatia																	0.02																		
Czech Republic						0.03																	0.41											0.48	
Denmark																	0.00						1.02							0.81					
Estonia										0.59																									
France		0.16										0.22											4.55	3.27						1.70	0.39		0.02		
Germany		0.11						2.50											0.01												2.77		0.52		
Greece						0.37																				0.00									
Hungary						0.33																		0.00	0.14									0.63	
Italy																												0.00				0.13			
Netherlands			7.69									3.89	9.50			0.29			0.38												0.50		0.25	2.33	
Norway			9.12								15.92	16.39			1.98			0.21					23.28						1.05					32.47	
Moldova																										0.01									
Portugal																													0.32						
Romania						0.02																													
Slovakia																																		0.21	
Slovenia						0.21										0.01																			
Spain											0.82																								
Turkey														0.37																					
Ukraine																								0.36											
United Kingdom		0.04														0.00			0.01			8.84											0.08		
Russia and C. Asia																																			
Azerbaijan					0.26								1.22			7.21																	8.82		
Kazakhstan																																			
Russia			19.80	0.24	2.64		8.72		0.46	1.76	7.03	56.23	2.60	7.11	29.17	1.18	0.99					3.27	9.47	10.39		2.88	2.37	3.54	0.08				26.34		
Turkmenistan																																			
Uzbekistan																																			
Middle East																																			
Iran																																		9.43	
Qatar																																			
Africa																																			
Algeria																21.17								0.08						13.75					
Libya																3.23																			
Nigeria																																			
Asia-Pacific																																			
China																																			
East Timor																																			
Indonesia																																			
Myanmar																																			
Americas																																			
Argentina																																			
Bolivia																																			
Canada																																			
Mexico																																			
United States																																		0.49	
Non-specified/Others		4.75				0.01					0.00	2.59		0.37	3.66						0.42			0.35				1.60						4.80	
TOTAL BY COUNTRY		4.8	17.1	19.8	0.2	3.3	0.6	8.7	2.5	0.5	2.3	28.3	84.7	4.2	7.5	3.7	63.1	1.2	1.0	0.8	0.4	3.3	47.2	14.4	0.4	3.7	2.4	5.1	0.9	16.8	0.8	3.8	44.6	7.8	36.6

(*) Data source: IEA (2022) *Natural Gas Information*. All rights reserved.

RUSSIA AND CENTRAL ASIA						MIDDLE EAST				AFRICA					ASIA - PACIFIC								AMERICAS					TOTAL BY COUNTRY	
Russia	Armenia	Georgia	Kazakhstan	Kyrgyzstan	Tajikistan	Iran	Iraq	Oman	United Arab Emirates	Benin	Ghana	Morocco	South Africa	Togo	Tunisia	Australia	China	Hong Kong	Malaysia	Singapore	Thailand	Others Asia - Pacific	Argentina	Brazil	Canada	Mexico	United States	Uruguay	TOTAL BY COUNTRY
																													1.3
																													2.4
																													0.7
																													0.0
																													0.9
																													1.8
																													0.6
																													2.4
																													14.0
																													0.4
																													1.1
																													0.1
																													24.8
																													100.4
																													0.0
																													0.3
																													0.0
																													0.2
																													0.2
																													0.8
																													0.4
																													0.4
																													9.0
																													17.5
9.52																4.21													13.7
	2.45		7.70	0.31												2.69													209.4
																26.03													26.0
				0.01	0.23											4.29													4.5
	0.34							9.77																					19.5
								1.33	18.89																				20.2
												0.71		3.99															39.7
												0.68																	3.2
																		5.38											0.7
																4.94													5.4
																													4.9
																		4.72	6.08										10.8
																4.16					9.40								13.6
																													0.1
																											0.08		0.1
																								6.15	10.48				16.6
																											78.85		78.9
																											0.05		0.0
																									23.48				24.0
	2.54					0.02				0.29			4.45	0.10								0.10				62.34			88.4
9.5	2.8	2.5	7.7	0.3	0.2	0.0	9.8	1.3	18.9	0.3	0.7	0.7	4.4	0.1	4.0	4.9	41.4	5.4	4.7	6.1	9.4	0.1	6.2	10.5	23.5	62.3	78.9	0.1	759.4

Natural Gas - Imports by Country of Origin - LNG 2021

(billion cubic metres)

Importers ▶ Exporters ▼	EUROPE																			MIDDLE EAST			
	Belgium	Croatia	Denmark	France	Finland	Gibraltar	Greece	Italy	Lithuania	Malta	Netherlands	Norway	Poland	Portugal	Spain	Sweden	Turkey	United Kingdom	Others Europe	Israel	Jordan	Kuwait	United Arab Emirates
Europe																							
Belgium		0.08									0.01	0.00			0.00		0.09						
France		0.08					0.00								0.09		0.10						
Finland															0.24								
Germany															0.06								
Gibraltar															0.03								
Lithuania					0.06							0.01						0.03					
Netherlands											0.02	0.01			0.12								
Norway								0.15							0.08								
Spain							0.09										0.11						
Sweden											0.01												
United Kingdom											0.90												
Russia and C. Asia																							
Russia	1.41			4.08	0.16						3.69	0.13	0.08	0.80	3.29	0.03		3.12	0.01				0.28
Middle East																							
Oman											0.00											0.26	0.29
Qatar	2.43	0.17		0.57			0.43	6.86			0.15		2.37		2.33		0.30	5.69			0.12	4.20	
United Arab Emirates																							
Africa																							
Algeria	0.09			4.47			0.48	1.29			0.10				2.08		5.99	0.75				0.12	
Angola							0.08				0.21				0.37							0.47	0.17
Cameroon											0.08											0.11	
Egypt	0.08	0.09					0.10	0.25	0.09						0.35		1.35					0.11	
Equatorial Guinea									0.09		0.09				0.79							0.11	
Nigeria		0.18		3.50				0.27			0.34			2.62	4.24		1.43	0.08			0.29	1.29	0.28
Asia-Pacific																							
Australia																							
Brunei																							
Indonesia																							
Malaysia																							
Papua New Guinea															0.01								
Americas																							
Argentina																							
Canada																							
Peru											0.37				0.08			0.83					
Trinidad and Tobago		0.08							0.16	0.26	0.10				1.09		0.19	0.16			0.56	0.17	
United States	0.18	0.96		3.12			1.14	1.12	0.93	0.13	3.94		1.60	1.88	5.32	0.00	4.74	3.63		0.14	0.30	0.66	0.29
Non-specified/Others			0.00	0.17		0.08					0.37	0.00			0.07						2.85	0.75	
TOTAL BY COUNTRY	4.2	1.7	0.0	15.9	0.2	0.1	2.2	9.9	1.4	0.4	10.3	0.2	4.1	5.3	20.2	0.5	14.1	14.4	0.0	0.1	4.1	8.1	1.5

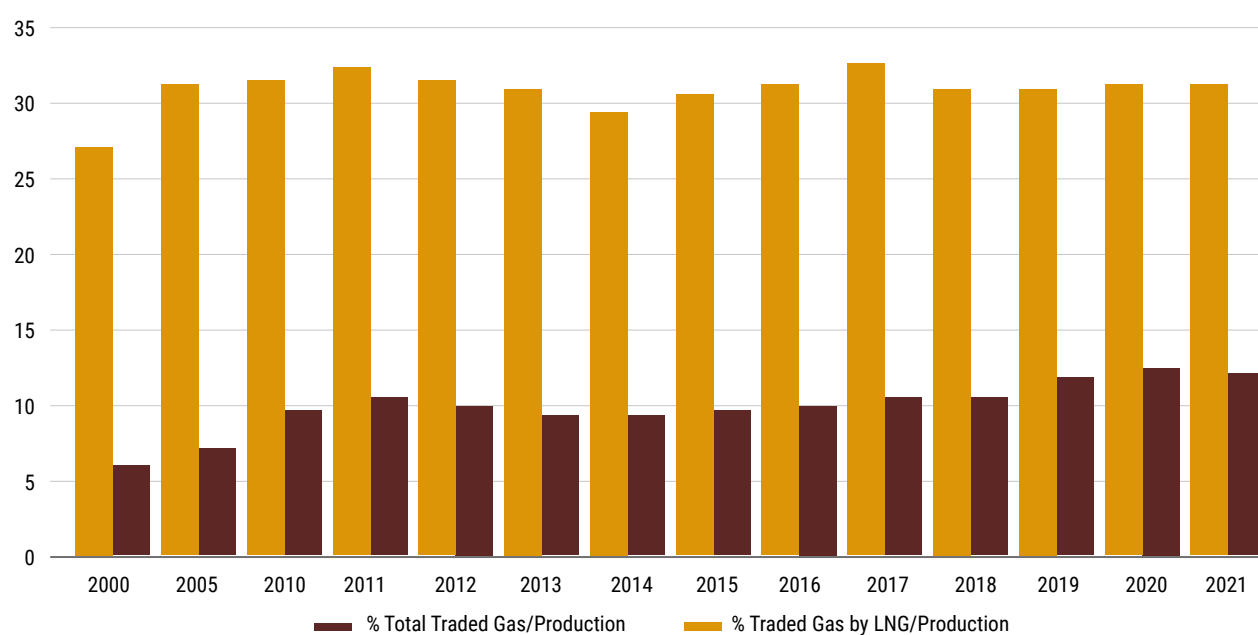
ASIA - PACIFIC										AMERICAS										TOTAL BY COUNTRY			
Bangladesh	China	India	Japan	Malaysia	Pakistan	Singapore	South Korea	Taiwan	Thailand	Argentina	Brazil	Canada	Chile	Colombia	Dominican Republic	Jamaica	Mexico	Panama	United States		Others Americas		
							0.52															0.7	
																							0.3
																							0.2
																							0.1
																							0.0
																							0.1
							0.16									0.09							0.3
																							0.3
																							0.2
																							0.0
																							0.9
0.12	6.86	0.82	9.34		0.17	0.07	3.19	3.16		0.12													40.9
	1.61	1.43	3.06		0.26	0.15	6.00	0.09	0.21														13.4
5.68	11.33	13.37	9.70		5.94	0.53	15.30	7.21	3.09	0.93													98.7
	0.42	4.07	1.92		0.42		0.32	0.26															7.4
0.12	0.08	0.24	0.05		0.35					0.06													16.3
	0.48	2.82	0.09		0.09	0.23	0.16				0.19				0.09								5.5
	0.54	0.50					0.18		0.09														1.5
	0.18	0.16	0.25		0.41	0.07	0.25	0.17	0.10														4.0
0.11	0.20	0.67	0.26			0.09	0.17		0.07				0.90										3.5
0.97	3.52	3.58	0.74	0.07	0.59		0.94	0.57	0.27	0.07													25.8
	39.64	1.01	37.57	1.92		2.65	12.66	6.88	0.93				0.12										103.4
	0.92	0.09	5.51	0.70		0.07	0.26	0.36	0.27														8.2
	7.42		2.98		0.17	0.25	2.96	1.66	0.30														15.7
	8.85		13.45		0.08		5.15	1.03	1.39														29.9
	4.01		4.79				0.24	2.36	0.10							0.02							11.5
										0.12													0.1
																				0.01			0.0
	1.56		0.39				1.12					0.07											4.4
	0.26	0.61	0.15			0.08	0.06	0.17	0.18	0.38	0.61	0.58	0.90		0.87	0.22			0.61	2.00		10.4	
0.40	6.32	3.08	7.70		1.01	0.69	11.24	2.00	0.98	0.55	5.56	0.05	2.60		0.98	0.27						73.5	
			0.24		0.66		0.02							0.29			4.82	0.44					10.8
7.4	94.2	32.4	98.2	2.7	10.1	4.9	60.9	25.9	8.0	2.0	6.5	0.7	4.5	0.3	2.0	0.5	4.8	0.4	0.6	2.0		488.1	

Traded Gas

	Traded Gas by LNG/ Total Traded Gas (%)	Traded Gas by Pipeline/ Total Traded Gas (%)	Total Traded Gas/ Production (%)	Traded Gas by LNG/ Production (%)	Traded Gas by Pipeline/ Production (%)
2000	22	78	27	6	21
2005	23	77	31	7	24
2010	31	69	31	10	22
2011	32	68	32	10	22
2012	31	69	31	10	22
2013	30	70	31	9	22
2014	32	68	29	9	20
2015	31	69	30	9	21
2016	31	69	31	10	21
2017	32	68	33	11	22
2018	34	66	31	11	20
2019	38	62	31	12	19
2020	40	60	31	13	19
2021	39	61	31	12	19

Total Traded Gas on Production

(percentage)



LNG - Liquefaction and Regasification Capacity

Liquefaction Capacity - Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Norway		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Russia and Central Asia		13.0	15.0	15.0	15.7	26.3	38.2	38.3	39.1
Russia		13.0	15.0	15.0	15.7	26.3	38.2	38.3	39.1
Middle East	47.5	113.2	136.5	136.5	136.5	136.5	136.5	136.5	137.0
Oman	10.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.7
Qatar	29.8	83.4	105.6	105.6	105.6	105.6	105.6	105.6	105.7
United Arab Emirates	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Yemen		8.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Africa	55.0	82.3	85.5	85.5	85.5	87.5	88.8	84.7	90.9
Algeria	28.1	27.9	33.0	33.0	33.0	33.0	33.0	28.9	28.9
Angola			7.1	7.1	7.1	7.1	7.1	7.1	7.1
Cameroon						2.0	3.3	3.3	3.2
Egypt	11.1	16.6	9.8	9.8	9.8	9.8	9.8	9.8	16.0
Equatorial Guinea		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Libya	2.2	2.2							
Nigeria	13.6	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
Asia - Pacific	92.4	114.1	126.8	155.4	180.7	195.0	209.6	211.6	213.3
Australia	16.1	28.2	45.1	70.5	91.0	104.0	121.3	123.4	123.4
Brunei	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Indonesia	35.7	42.6	27.0	28.9	28.9	28.9	25.2	25.2	25.2
Malaysia	30.8	33.7	34.9	36.2	41.0	41.4	41.4	41.4	43.1
Papua New Guinea			10.1	10.1	10.1	10.9	11.9	11.9	11.9
Americas	15.6	26.0	28.7	36.8	51.1	62.1	86.2	123.3	128.8
Argentina							0.4	0.5	
Peru		3.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Trinidad and Tobago	13.6	20.6	20.6	20.7	20.7	20.7	20.7	20.7	16.3
United States	2.0	2.0	2.0	10.1	24.4	35.4	59.1	96.1	106.5
World	210.5	354.2	398.1	434.8	475.1	512.9	564.7	600.1	614.6

(*) Nominal Capacity. Data source: Wood Mackenzie LNG Tool.

LNG - Liquefaction and Regasification Capacity

Regasification Capacity - Countries (*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Europe	73.5	177.0	202.8	215.3	227.6	238.8	249.3	251.8	252.6
Belgium	4.5	10.9	10.9	11.2	11.2	11.2	11.2	11.2	11.2
Croatia									2.6
Finland							0.3	0.5	0.5
France	15.7	25.7	23.1	29.5	36.2	36.2	36.2	36.4	36.0
Greece	1.3	5.4	5.4	5.4	5.4	5.4	7.0	7.6	7.6
Italy	3.5	11.5	15.3	15.3	15.3	15.3	15.3	15.3	15.4
Lithuania			3.8	3.8	3.8	3.8	3.8	3.8	3.8
Malta				0.1	0.6	0.6	0.6	0.6	0.6
Netherlands			12.0	12.0	12.0	12.0	12.0	12.0	12.0
Poland			0.3	5.0	5.0	5.0	5.0	5.0	5.0
Portugal	5.6	5.6	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Spain	34.2	62.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6
Turkey	6.3	12.3	12.3	12.5	17.5	28.7	37.2	38.7	37.2
United Kingdom	2.3	43.2	47.9	48.9	48.9	48.9	48.9	48.9	48.9
Russia and Central Asia							3.6	3.7	3.7
Russia							3.6	3.7	3.7
Middle East		5.5	18.5	27.6	30.7	30.7	30.7	30.7	34.7
Bahrain									0.1
Israel			2.7	2.7	2.7	2.7	2.7	2.7	2.7
Jordan			4.5	7.4	7.4	7.4	7.4	7.4	7.4
Kuwait		5.2	6.6	6.6	6.6	6.6	6.6	6.6	10.6
United Arab Emirates		0.3	4.7	10.9	14.0	14.0	14.0	14.0	14.0
Africa			4.8	10.3	10.3	9.3	5.2	5.2	5.2
Egypt			4.8	10.3	10.3	9.3	5.2	5.2	5.2
Senegal									0.1
Asia - Pacific	346.2	428.7	565.0	587.3	620.6	657.2	680.4	702.9	741.5
Bangladesh						3.9	8.7	10.3	10.3
China		17.5	61.9	69.9	82.3	92.0	100.2	111.3	133.0
India	9.4	18.4	34.1	36.3	41.5	41.8	48.2	57.2	62.4
Indonesia		11.3	12.4	12.5	12.5	12.5	12.5		15.0
Japan	243.3	258.6	283.2	288.1	290.4	294.5	294.6	294.6	298.9
Malaysia			5.2	5.2	6.0	10.0	10.0	10.0	10.0
Myanmar								0.7	1.4
Philippines									2.1
Pakistan			5.4	7.1	7.7	13.3	13.3	13.3	14.1
Singapore			8.2	8.2	8.2	15.1	15.1	15.1	15.1
South Korea	82.8	115.1	128.0	130.4	136.2	136.5	136.7	136.7	138.0
Taiwan	10.7	19.1	21.0	22.8	22.8	24.0	25.5	25.5	25.5
Thailand			6.8	6.8	13.1	13.7	15.7	15.7	15.7
Americas	34.5	188.9	243.7	244.9	249.0	251.3	255.1	264.5	275.7
Argentina		4.1	11.3	11.3	11.3	10.4	8.3	8.3	11.4
Brazil		7.7	14.9	14.9	14.9	14.9	16.8	25.1	32.8
Canada		10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
Chile		5.3	7.3	7.5	7.5	7.5	7.5	7.5	7.5
Colombia				0.7	4.1	4.1	4.1	4.1	4.1
Dominican Republic			3.9	3.9	3.9	3.9	3.9	3.9	3.9
Jamaica				0.4	1.0	3.4	5.8	5.8	5.8
Mexico		15.5	20.7	20.7	20.7	20.7	20.7	20.7	20.9
Panama						0.8	2.4	2.4	2.4
United States (**)	31.9	143.4	175.3	175.3	175.3	175.3	175.4	176.5	176.7
World	454.1	800.1	1,034.7	1,085.5	1,138.2	1,187.2	1,224.2	1,258.8	1,313.3

(*) Data source: Wood Mackenzie LNG Tool.

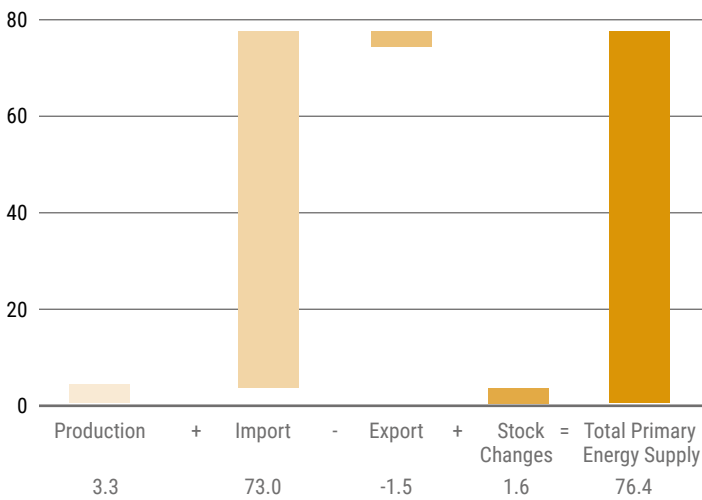
(**) The United States includes Puerto Rico.

Natural Gas Balance - Italy^(*)

(billion cubic metres)

	2005	2010	2015	2016	2017	2018	2019	2020	2021
Production	12.1	8.4	6.8	5.8	5.5	5.4	4.9	4.1	3.3
Imports	73.5	75.4	61.3	65.3	69.7	67.9	71.1	66.4	73.0
Exports	-0.4	-0.1	-0.2	-0.2	-0.3	-0.4	-0.3	-0.3	-1.5
Stock Changes	1.1	-0.5	-0.3	0.1	0.2	-0.3	-1.1	1.1	1.6
Total Primary Energy Supply	86.3	83.1	67.5	70.9	75.2	72.7	74.5	71.3	76.4

2021



Imports 2021^(**)



^(*) Data source: Italian Ministry for Ecological Transition. Gas volumes are quoted in Italian calorific value of 38.1 MJ/cm.

^(**) Data source: Eni's elaborations on Italian Ministry for Ecological Transition data.

Natural Gas Prices

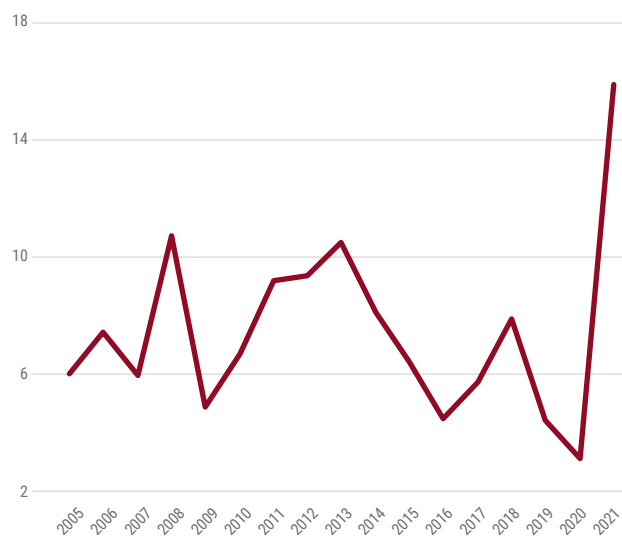
Natural Gas Prices

(\$/Mbtu)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
TTF	6.1	6.7	6.4	4.5	5.8	7.9	4.5	3.2	15.9	402.5%	8.1%
Henry Hub	8.7	4.4	2.6	2.5	3.0	3.2	2.6	2.0	3.9	91.7%	-1.0%
Japan		7.7	7.9	6.2	7.6	10.2	5.9	4.7	18.8	296.8%	8.4%

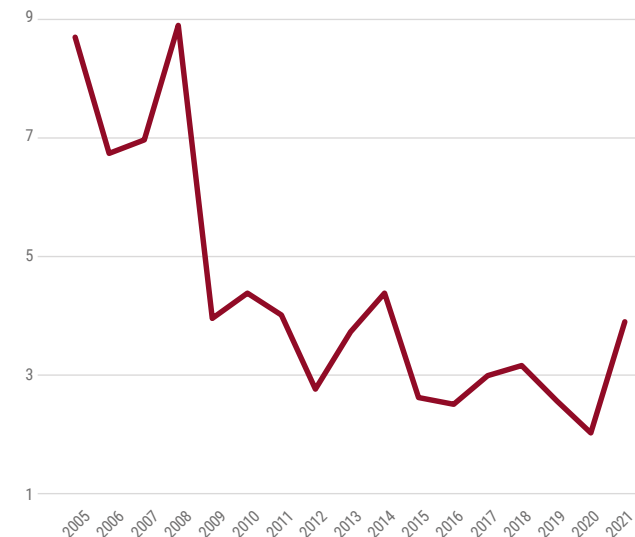
TTF

(\$/Mbtu)



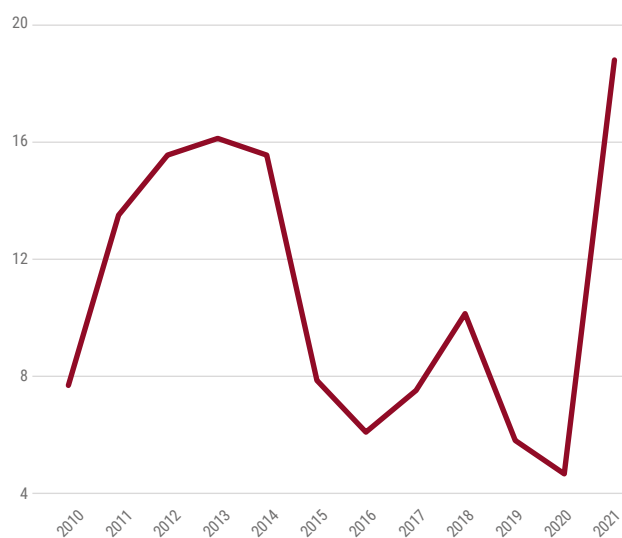
Henry Hub

(\$/Mbtu)



Japan(*)

(\$/Mbtu)



(*) Data source: Woodmackenzie and EIA DOE.

Renewables

SOLAR RESOURCES MAP

SOLAR PHOTOVOLTAIC POWER CAPACITY

Areas and Aggregates

The World Top 10

Countries

SOLAR PHOTOVOLTAIC POWER GENERATION

Areas and Aggregates

The World Top 10

Countries

CONCENTRATED SOLAR POWER CAPACITY

Areas and Aggregates

The World Top 10

Countries

CONCENTRATED SOLAR POWER GENERATION

Areas and Aggregates

The World Top 5

Countries

WIND RESOURCES MAP

WIND POWER CAPACITY

Areas and Aggregates

The World Top 10

Countries

WIND POWER GENERATION

Areas and Aggregates

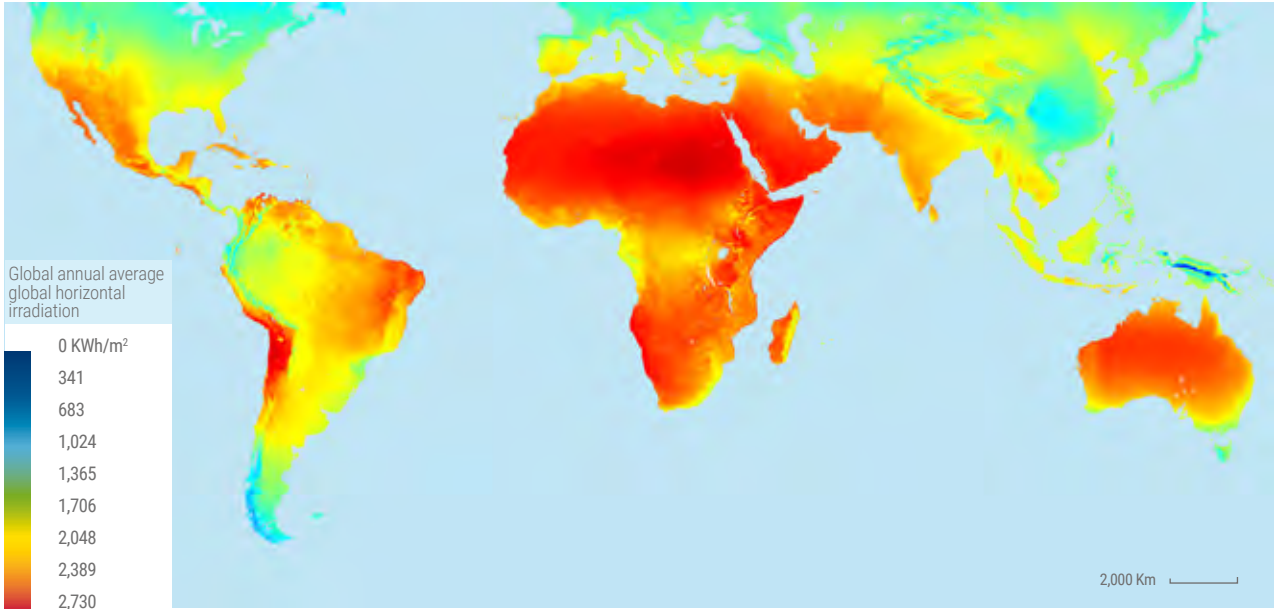
The World Top 10

Countries

BIOFUELS PRODUCTION

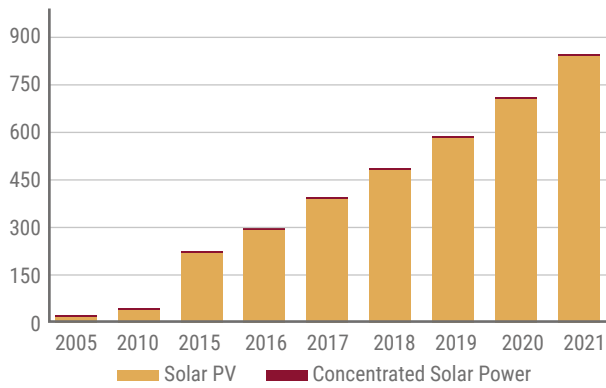
Solar Resources Map (Global Horizontal Irradiance)^(*)

(W/m²/day)



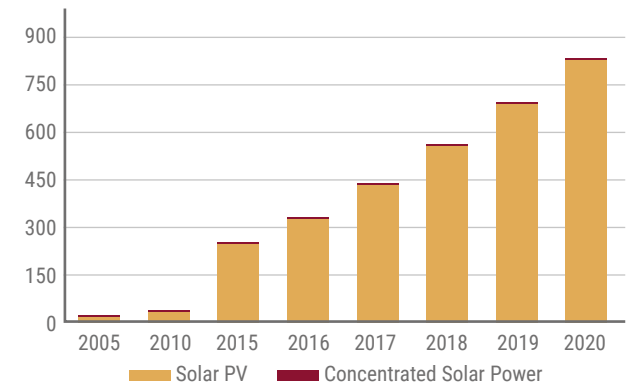
Solar Power Capacity

(GW)



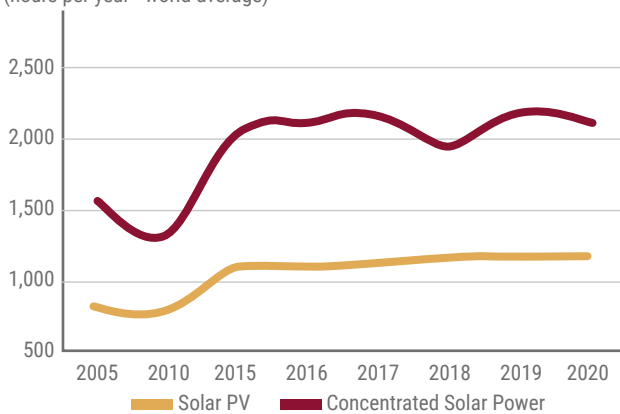
Solar Power Generation

(TWh)

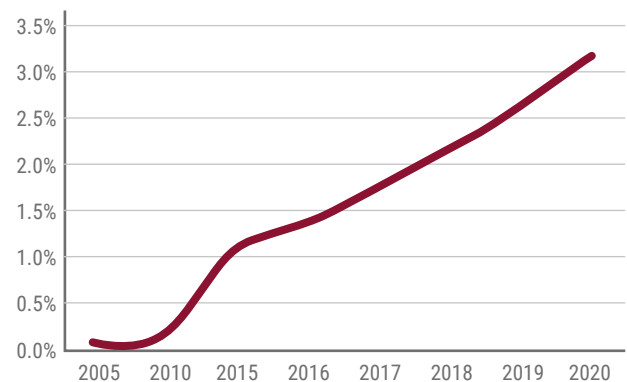


Capacity Factor

(hours per year - world average)



Share of Solar on Total Power Generation



^(*) IRENA: Global Atlas, Map data: VAISALA, 2022.

Solar Photovoltaic Power Capacity

Areas and Aggregates^(*)

(MW)

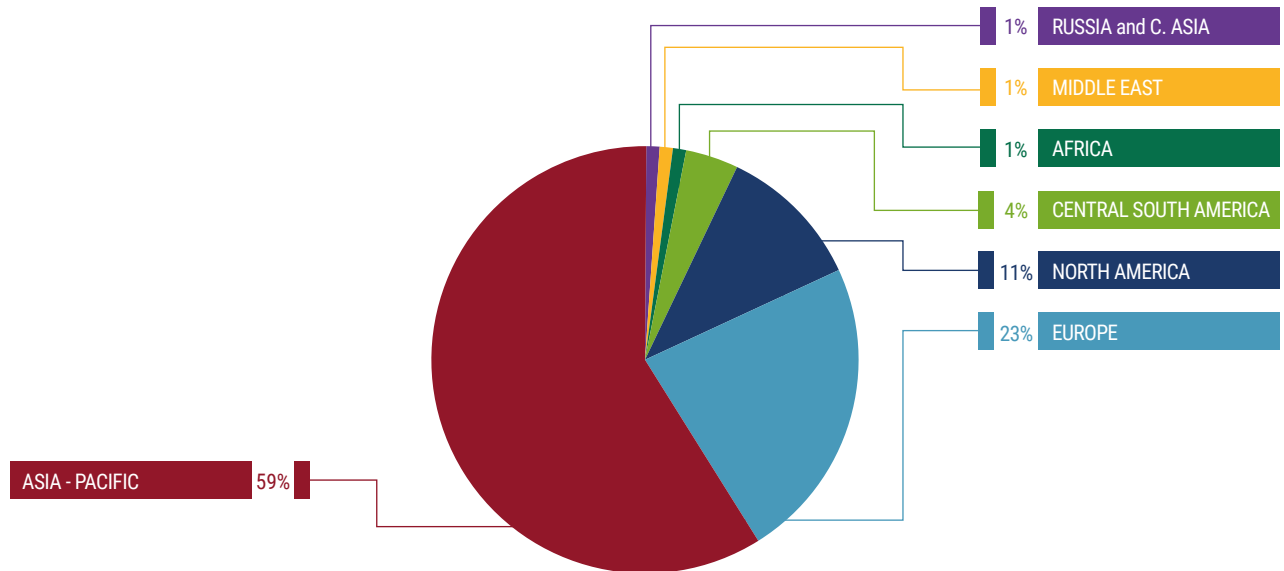
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	2,318	30,125	97,542	104,692	113,406	124,347	145,958	167,102	192,854	15.4%	18.4%
Russia and Central Asia	0	2	211	262	435	1,081	2,513	3,281	4,822	47.0%	107.4%
Middle East	1	85	970	1,476	2,111	3,254	5,733	6,786	7,903	16.5%	51.0%
Africa	26	194	1,931	2,988	4,711	7,211	8,417	9,708	10,308	6.2%	43.5%
Asia - Pacific	1,659	6,625	96,157	146,799	218,843	284,142	344,157	425,975	505,332	18.6%	48.3%
Americas	544	3,308	26,393	39,012	50,698	62,956	77,845	97,849	127,185	30.0%	39.3%
- North America	511	3,158	24,203	35,623	44,289	52,907	62,395	77,156	97,343	26.2%	36.6%
- Central South America	33	150	2,190	3,389	6,409	10,049	15,450	20,693	29,842	44.2%	61.8%
World	4,548	40,338	223,204	295,229	390,204	482,990	584,623	710,700	848,404	19.4%	31.9%
European Union 27	2,268	29,883	85,387	89,193	93,926	101,746	117,916	136,137	159,079	16.9%	16.4%
MENA	14	119	1,087	1,798	2,747	4,683	8,062	9,159	10,317	12.6%	50.0%
OECD	4,332	38,703	163,673	192,537	220,344	251,236	296,459	346,693	407,763	17.6%	23.9%
NON OECD	216	1,635	59,530	102,692	169,859	231,754	288,164	364,007	440,642	21.1%	66.3%
OPEC	2	28	197	437	986	1,366	2,780	3,008	3,886	29.2%	56.8%
NON OPEC	4,546	40,310	223,007	294,792	389,217	481,624	581,843	707,693	844,518	19.3%	31.9%

^(*) Data source: Eni's calculations on IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi data.

Solar Photovoltaic Power Capacity

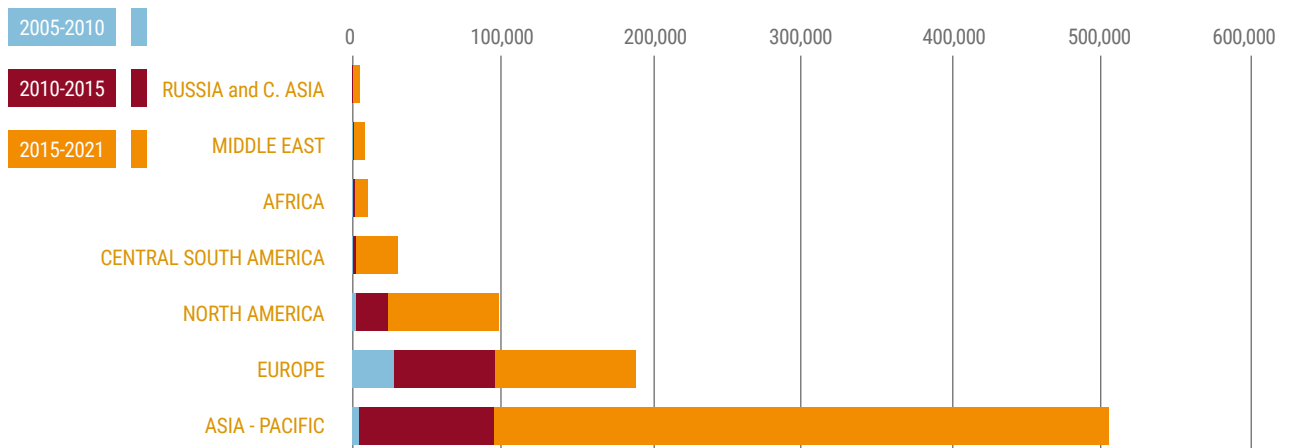
World Solar Photovoltaic Power Capacity (2021)

848,404 MW



World Solar Photovoltaic Power Capacity Growth (2005-2021)

843,856 MW



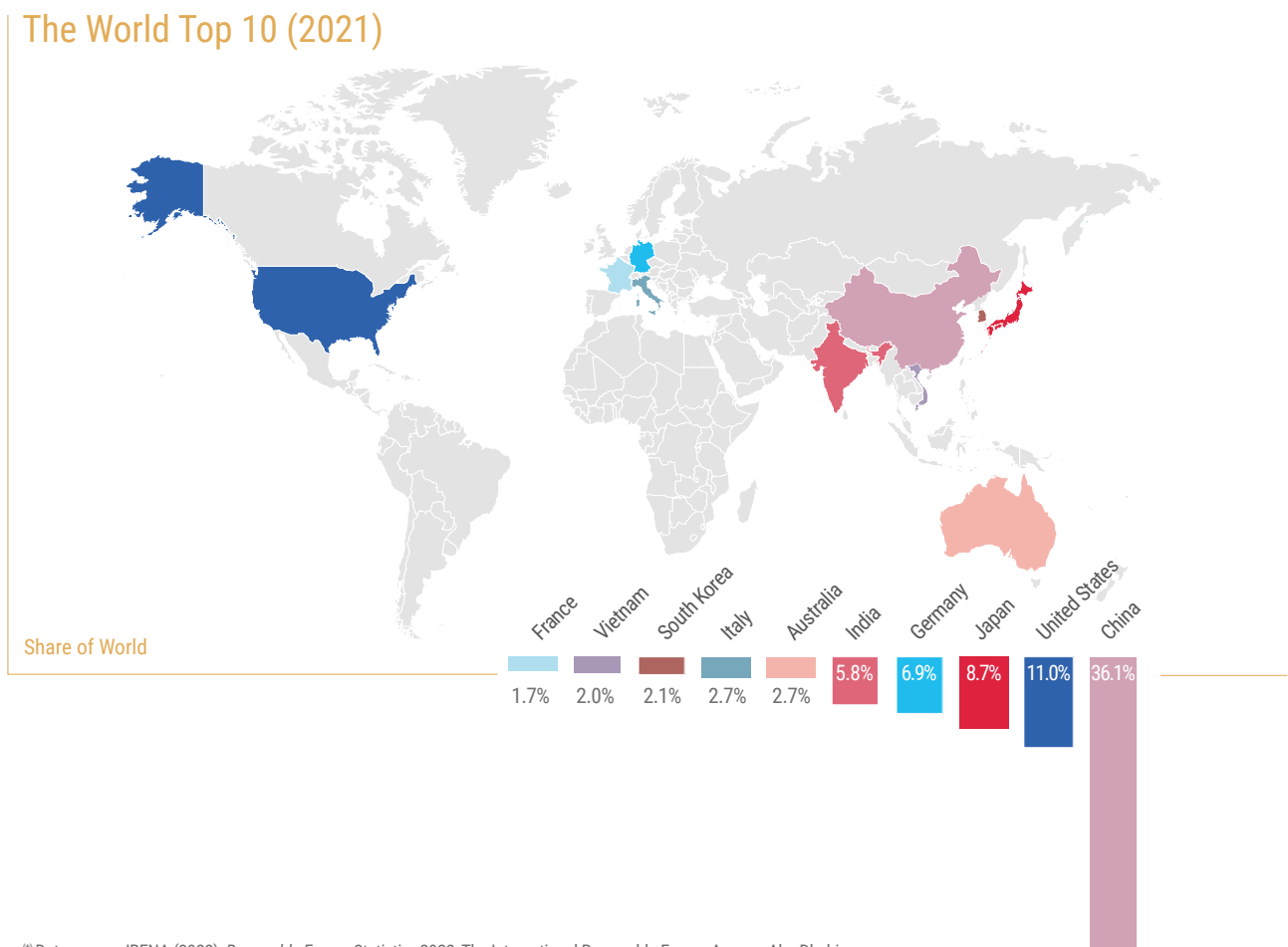
Solar Photovoltaic Power Capacity

The World Top 10^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
China	141	1,022	43,538	77,788	130,801	175,016	204,575	253,418	306,403	20.9%	67.9%
United States	493	2,909	21,684	32,958	41,357	49,812	59,068	73,814	93,713	27.0%	37.1%
Japan	1,422	3,618	34,150	42,040	49,500	56,162	63,192	69,764	74,191	6.3%	31.6%
Germany	2,056	18,004	39,222	40,677	42,291	45,156	48,912	53,719	58,726	9.3%	11.3%
India	12	65	5,365	9,651	17,923	27,125	34,861	39,043	49,342	26.4%	82.7%
Australia	52	1,088	5,943	6,686	7,352	8,623	12,967	17,983	22,867	27.2%	31.9%
Italy	34	3,592	18,901	19,283	19,682	20,108	20,865	21,650	22,692	4.8%	18.2%
South Korea	14	650	3,615	4,502	5,835	8,099	11,952	14,575	18,161	24.6%	35.4%
Vietnam	2	5	5	5	8	105	4,993	16,660	16,660	0.0%	111.0%
France	13	1,044	7,138	7,702	8,610	9,672	10,808	12,022	14,709	22.4%	27.2%
The World Top 10	4,239	31,997	179,561	241,292	323,360	399,877	472,193	572,648	677,464	18.3%	32.0%
Rest of the World	309	8,341	43,643	53,937	66,843	83,113	112,430	138,052	170,941	23.8%	31.6%
World	4,548	40,338	223,204	295,229	390,204	482,990	584,623	710,700	848,404	19.4%	31.9%

The World Top 10 (2021)



^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Solar Photovoltaic Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	2,318	30,125	97,542	104,692	113,406	124,347	145,958	167,102	192,854	15.4%	18.4%
Albania	0	0	1	1	1	1	14	21	26	24.3%	46.2%
Austria	21	89	937	1,096	1,269	1,455	1,702	2,043	2,692	31.8%	36.4%
Belarus			6	47	80	154	154	160	160	0.0%	
Belgium	2	1,007	3,132	3,329	3,621	4,000	4,637	5,575	6,425	15.2%	18.4%
Bosnia Herzegovina	0	0	8	14	16	18	22	35	57	62.0%	61.0%
Bulgaria		25	1,029	1,028	1,036	1,033	1,048	1,097	1,186	8.1%	42.0%
Croatia		0	48	56	60	68	85	109	109	0.0%	70.8%
Cyprus	1	7	76	84	110	118	151	229	316	37.9%	41.4%
Czech Republic	1	1,727	2,075	2,068	2,070	2,075	2,086	2,123	2,119	-0.2%	1.9%
Denmark	3	7	782	851	906	998	1,080	1,304	1,540	18.1%	63.3%
Estonia		0	7	10	15	32	121	208	414	99.2%	113.2%
Finland	4	7	17	39	82	140	222	318	404	27.0%	44.6%
France	13	1,044	7,138	7,702	8,610	9,672	10,808	12,022	14,709	22.4%	27.2%
Germany	2,056	18,004	39,222	40,677	42,291	45,156	48,912	53,719	58,726	9.3%	11.3%
Greece	1	202	2,604	2,604	2,606	2,652	2,834	3,288	3,530	7.4%	29.7%
Hungary		2	172	235	344	728	1,400	2,131	2,131	0.0%	88.5%
Iceland			3	4	4	5	7	7	7	0.0%	
Ireland		1	2	6	17	32	58	93	136	46.8%	61.6%
Italy	34	3,592	18,901	19,283	19,682	20,108	20,865	21,650	22,692	4.8%	18.2%
Kosovo			0	2	7	7	10	10	10	0.0%	
Latvia			0	1	1	2	3	5	8	58.8%	
Lithuania		0	69	70	74	82	103	164	254	54.9%	104.0%
Luxembourg	24	29	116	122	128	131	160	187	209	11.8%	19.5%
Malta	0	1	75	94	112	132	155	188	196	4.3%	64.9%
Moldova			1	2	2	3	5	4	8	97.2%	
Montenegro		1	3	3	3	4	5	6	7	7.9%	24.5%
Netherlands	51	90	1,526	2,135	2,911	4,608	7,226	10,950	14,249	30.1%	58.5%
North Macedonia		0	17	17	17	21	26	94	94	0.0%	129.8%
Norway	7	9	15	27	45	68	120	160	225	40.7%	33.8%
Poland			108	187	287	562	1,539	3,955	7,665	93.8%	
Portugal	2	134	447	513	579	667	901	1,100	1,801	63.7%	26.6%
Romania		0	1,326	1,372	1,374	1,386	1,398	1,383	1,398	1.1%	138.2%
Serbia	1	3	16	17	18	21	23	31	52	69.9%	28.4%
Slovakia		19	533	533	528	472	590	535	536	0.2%	35.5%
Slovenia	0	12	238	233	247	247	278	370	376	1.6%	36.8%
Spain	52	3,873	4,704	4,713	4,723	4,764	8,839	10,285	13,648	32.7%	12.1%
Sweden	4	11	104	153	244	428	714	1,107	1,610	45.5%	57.4%
Switzerland	28	125	1,394	1,664	1,906	2,173	2,498	2,973	3,449	16.0%	35.2%
Türkiye	2	6	249	833	3,421	5,063	5,995	6,667	7,816	17.2%	92.8%
Ukraine		3	841	955	1,200	2,003	5,936	7,331	8,062	10.0%	108.4%
United Kingdom	11	95	9,601	11,914	12,760	13,059	13,224	13,462	13,799	2.5%	57.2%
Others Europe			0	0	0	1	2	3	4	28.2%	

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Solar Photovoltaic Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	0	2	211	262	435	1,081	2,513	3,281	4,822	47.0%	107.4%
Russia		0	61	76	225	535	1,276	1,428	1,661	16.3%	198.2%
Armenia				1	2	17	50	95	183	92.4%	
Azerbaijan		0	5	25	28	35	33	35	40	14.2%	56.1%
Georgia				0	0	0	1	1	1	0.0%	
Kazakhstan	0	1	144	157	175	490	1,150	1,719	2,834	64.9%	101.6%
Uzbekistan			1	2	3	4	4	4	104	2857.1%	
Middle East	1	85	970	1,476	2,111	3,254	5,733	6,786	7,903	16.5%	51.0%
Bahrain		0	5	6	6	6	9	10	11	16.1%	106.0%
Iran	0	0	9	43	184	286	346	430	456	6.1%	90.1%
Iraq			37	37	37	37	37	37	37	0.0%	
Israel	1	70	766	874	982	1,285	1,807	2,230	2,313	3.7%	37.5%
Jordan	0	0	6	287	397	700	1,186	1,448	1,521	5.0%	185.2%
Kuwait			3	31	32	43	43	43	43	0.0%	
Lebanon		0	9	22	35	58	79	79	79	0.0%	64.4%
Oman			2	2	8	8	9	112	138	23.3%	
Qatar			4	5	5	5	5	5	5	0.0%	
Saudi Arabia	0	2	24	24	34	34	59	59	389	555.7%	59.1%
Syria					0	1	2	2	2	0.0%	
United Arab Emirates		11	33	40	255	498	1,818	1,961	2,478	26.4%	63.9%
Yemen		1	60	80	100	250	250	253	253	0.0%	65.3%
Others Middle East			12	25	35	40	82	117	178	51.6%	

(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Solar Photovoltaic Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Africa	26	194	1,931	2,988	4,711	7,211	8,417	9,708	10,308	6.2%	43.5%
Algeria			49	219	400	423	423	423	423	0.0%	
Angola	1	7	13	13	13	13	13	13	13	0.0%	5.9%
Benin			1	3	3	3	3	3	3	0.0%	
Cameroon	0	1	7	9	12	14	14	14	14	0.9%	27.5%
Chad		0	0	0	0	0	0	1	1	0.0%	70.9%
Congo			0	0	1	1	1	1	1	0.0%	
Côte d'Ivoire	0	2	5	5	8	13	13	13	13	0.0%	21.4%
Dem. Rep. Congo			1	3	5	20	20	20	20	0.0%	
Egypt	1	15	16	39	160	744	1,627	1,655	1,656	0.0%	53.4%
Equatorial Guinea									0		
Ethiopia		0	10	14	12	12	12	20	21	5.0%	82.7%
Gabon	0	1	1	1	1	1	1		1	0.0%	0.0%
Ghana		31	38	47	78	85	108		108	0.0%	
Kenya	0	0	30	31	38	105	106	106	147	38.7%	82.5%
Libya	1	4	5	5	5	5	5	5	6	23.9%	5.0%
Madagascar	0	2	9	11	13	33	33	33	33	0.0%	32.4%
Mauritania			18	35	35	87	88	88	88	0.0%	
Morocco	10	14	20	22	24	194	194	194	234	20.8%	29.6%
Mozambique			10	13	15	55	55	55	55	0.0%	
Namibia	2	4	21	36	75	93	145	145	145	0.0%	38.0%
Niger	1	2	7	8	9	27	27	27	27	0.0%	26.2%
Nigeria			17	18	19	19	28	28	33	14.9%	
Rwanda		0	14	19	28	38	38	38	38	0.0%	57.7%
Senegal	2	3	9	42	107	148	171	171	238	38.9%	47.6%
Sierra Leone	0	0	0	0	4	4	4	4	4	0.9%	41.9%
Somalia			0	5	7	7	7	16	24	51.5%	
South Africa		2	1,252	1,974	3,147	4,401	4,405	5,490	5,721	4.2%	106.6%
South Sudan			0	0	0	1	1	1	1	53.1%	
Sudan	0	2	20	26	36	59	80	117	136	16.0%	45.1%
Tanzania		0	13	19	22	26	24	24	24	0.0%	82.8%
Tunisia	1	2	28	38	47	64	80	95	95	0.0%	43.3%
Uganda	3	15	22	24	44	67	77	87	92	5.1%	18.0%
Zambia			0	0	0	1	96	96	96	0.0%	
Zimbabwe		0	4	5	6	11	16	18	30	64.2%	139.7%
Others Africa	4	118	296	311	368	443	523	597	768	28.6%	18.6%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Solar Photovoltaic Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	1,659	6,625	96,157	146,799	218,843	284,142	344,157	425,975	505,332	18.6%	48.3%
Afghanistan		0	19	20	22	22	31	31	31	0.0%	68.0%
Australia	52	1,088	5,943	6,686	7,352	8,623	12,967	17,983	22,867	27.2%	31.9%
Bangladesh	2	32	145	161	185	201	239	284	329	15.9%	23.5%
Brunei		1	1	1	1	1	1	1	5	242.7%	13.4%
China	141	1,022	43,538	77,788	130,801	175,016	204,575	253,418	306,403	20.9%	67.9%
East Timor	0	0	1	1	1	1	1	1	1	-0.9%	20.4%
Hong Kong					1	1	89	91	95	4.8%	
India	12	65	5,365	9,651	17,923	27,125	34,861	39,043	49,342	26.4%	82.7%
Indonesia	1	15	79	88	98	65	155	185	211	14.1%	27.5%
Japan	1,422	3,618	34,150	42,040	49,500	56,162	63,192	69,764	74,191	6.3%	31.6%
Malaysia		1	266	344	394	545	894	1,483	1,787	20.5%	108.8%
Mongolia	0	5	5	15	48	64	89	95	95	0.2%	31.7%
Myanmar		0	21	32	44	48	88	84	80	-4.8%	62.0%
Nepal	2	4	13	14	54	52	51	67	93	39.3%	32.3%
New Zealand		3	37	53	70	91	117	144	148	3.0%	42.6%
North Korea	0	1	23	32	35	38	42	42	52	23.9%	43.8%
Pakistan		9	266	590	655	679	763	860	1,083	25.9%	54.2%
Papua New Guinea	0	0	1	1	1	1	3	3	3	0.0%	21.9%
Philippines	2	2	173	784	908	917	982	1,058	1,370	29.5%	80.9%
Singapore		3	46	97	116	161	276	336	433	28.9%	57.1%
South Korea	14	650	3,615	4,502	5,835	8,099	11,952	14,575	18,161	24.6%	35.4%
Sri Lanka	4	7	31	63	131	185	285	371	434	17.1%	45.6%
Taiwan	1	35	884	1,245	1,768	2,738	4,150	5,817	7,700	32.4%	63.5%
Thailand		49	1,420	2,446	2,697	2,962	2,983	2,983	3,044	2.0%	45.7%
Vietnam	2	5	5	5	8	105	4,993	16,660	16,660	0.0%	111.0%
Others Asia - Pacific	3	11	112	141	195	239	377	596	714	19.7%	46.5%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Solar Photovoltaic Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	544	3,308	26,393	39,012	50,698	62,956	77,845	97,849	127,185	30.0%	39.3%
Argentina	0	0	9	9	9	191	442	764	1,071	40.2%	162.7%
Barbados	0	1	9	20	21	22	35	50	50	0.0%	42.7%
Belize	0	1	4	4	4	4	6	7	7	0.0%	23.1%
Bolivia	1	3	6	6	8	70	120	120	170	41.6%	44.5%
Brazil	1	1	46	128	1,207	2,435	4,613	7,879	13,055	65.7%	140.1%
Canada	18	249	2,519	2,665	2,932	3,095	3,327	3,342	3,630	8.6%	27.6%
Chile			576	1,125	1,809	2,137	2,654	3,205	4,360	36.0%	
Colombia	1	1	1	2	11	13	26	86	184	115.2%	57.2%
Costa Rica	3	6	22	24	28	28	48	57	74	29.8%	25.2%
Cuba			24	37	65	128	159	217	246	13.4%	
Curacao			10	11	11	12	12	13	13	0.0%	
Dominican Republic			25	73	106	205	315	386	490	27.0%	
Ecuador	0	0	26	26	26	27	28	28	28	0.1%	93.0%
El Salvador	0	0	24	25	121	198	403	478	478	0.0%	132.8%
Guatemala	0	1	93	93	99	101	101	101	101	0.5%	59.4%
Guyana	0	0	2	2	3	6	8	8	8	0.0%	42.3%
Haiti		1	2	2	3	3	3	3	3	0.0%	15.0%
Honduras	3	4	393	414	454	514	514	514	514	0.0%	56.5%
Jamaica	0	1	7	28	56	56	93	93	93	0.0%	50.9%
Mexico	16	30	287	633	1,126	2,541	4,426	5,149	7,026	36.5%	64.3%
Nicaragua			1	1	14	14	16	16	16	0.0%	
Panama	1	2	49	93	147	210	222	242	465	92.1%	65.1%
Paraguay		0	0	0	0	0	0	0	0	0.0%	44.4%
Peru	5	13	135	146	298	324	335	335	336	0.4%	34.9%
Suriname		0	6	7	8	9	9	9	9	0.0%	45.4%
Trinidad and Tobago	2	3	4	4	4	4	4	4	4	0.0%	2.1%
United States	493	2,909	21,684	32,958	41,357	49,812	59,068	73,814	93,713	27.0%	37.1%
Uruguay		0	6	10	243	248	254	258	258	0.0%	97.7%
Venezuela		2	5	5	5	4	5	5	5	0.0%	10.4%
Others Americas	1	81	420	464	526	546	599	666	778	16.7%	22.8%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Solar Photovoltaic Power Generation

Areas and Aggregates^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Europe	1,488	22,598	104,631	108,808	118,967	131,914	145,338	172,251		18.5%	22.5%
Russia and Central Asia			459	634	758	1,162	2,215	3,696		66.9%	
Middle East		94	1,412	2,326	3,383	5,138	9,643	13,715		87.7%	67.3%
Africa	20	347	2,589	3,777	5,224	6,988	10,776	11,581		54.2%	46.5%
Asia - Pacific	1,620	5,625	98,039	149,534	223,452	309,283	391,160	467,224		26.5%	60.2%
Americas	563	3,406	37,717	55,862	79,600	99,218	123,924	155,317		24.9%	49.1%
- North America	541	3,318	34,986	50,663	71,285	85,351	98,359	120,748	151,415	25.4%	41.5%
- Central South America	22	88	2,731	5,199	8,315	13,867	25,565	34,569		35.2%	81.7%
World	3,691	32,070	244,847	320,941	431,384	553,703	683,056	823,784		20.6%	38.3%
European Union 27	1,459	22,464	95,264	95,456	102,048	108,160	118,100	139,242	157,815	13.3%	19.4%
MENA	2	307	1,712	3,111	4,634	7,656	15,396	19,617		27.4%	51.5%
OECD	3,558	30,708	181,910	217,146	262,486	302,426	350,337	421,937	502,123	19.0%	28.9%
NON OECD	133	1,362	62,937	103,795	168,898	251,277	332,719	401,847		20.8%	76.6%
OPEC	2	29	259	296	1,316	2,252	5,093	7,317		43.7%	73.9%
NON OPEC	3,689	32,041	244,588	320,645	430,068	551,451	677,963	816,467		20.4%	38.2%

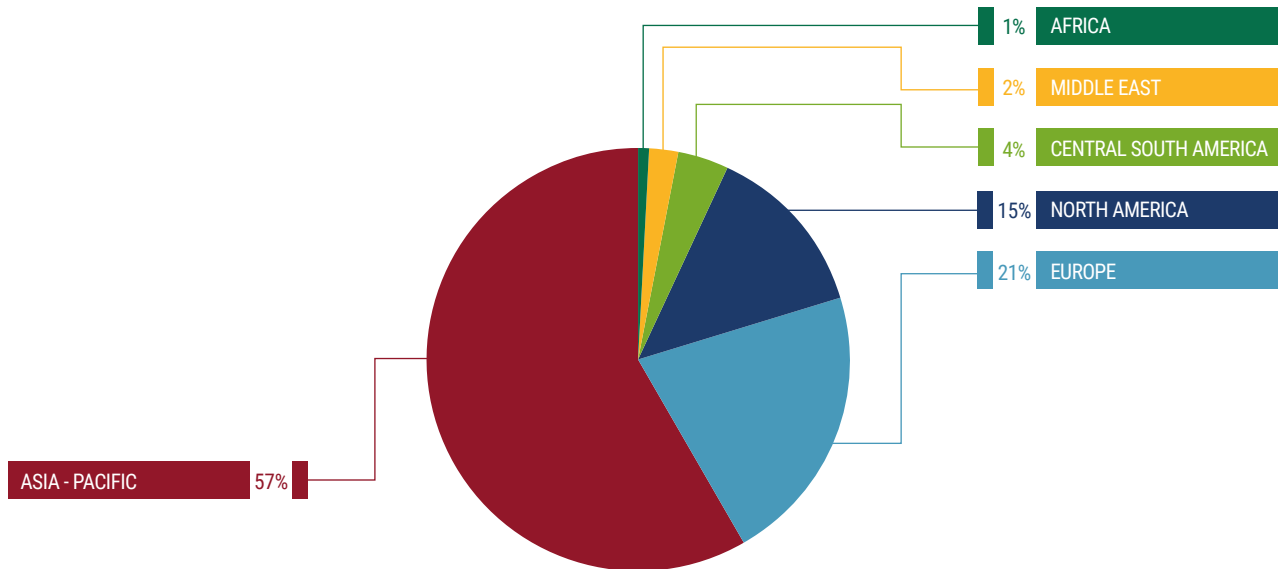
^(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* data. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Solar Photovoltaic Power Generation

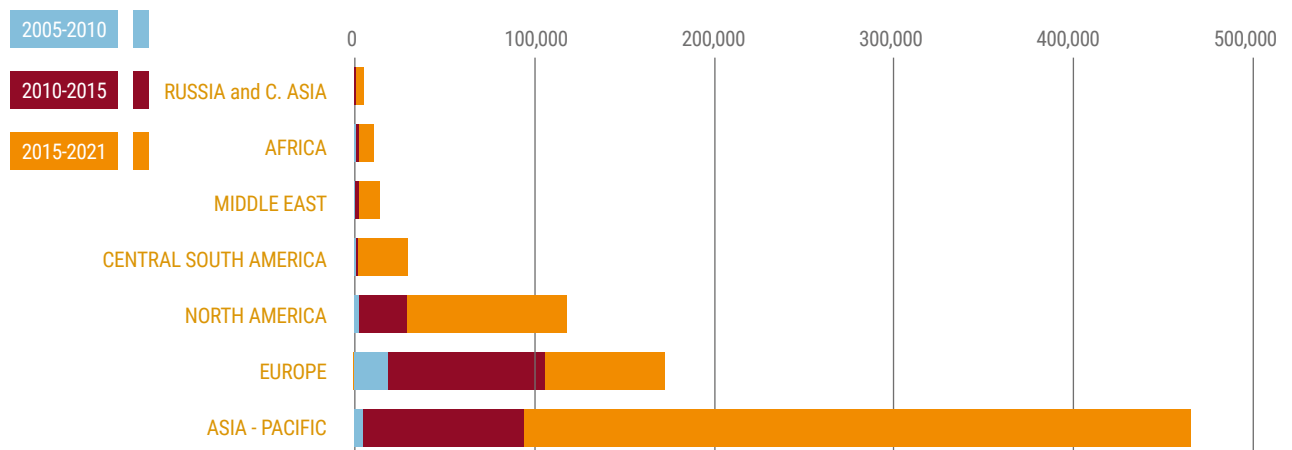
World Solar Photovoltaic Power Generation (2020)

823,784 GWh



World Solar Photovoltaic Power Generation Growth (2005-2021)

820,093 MW



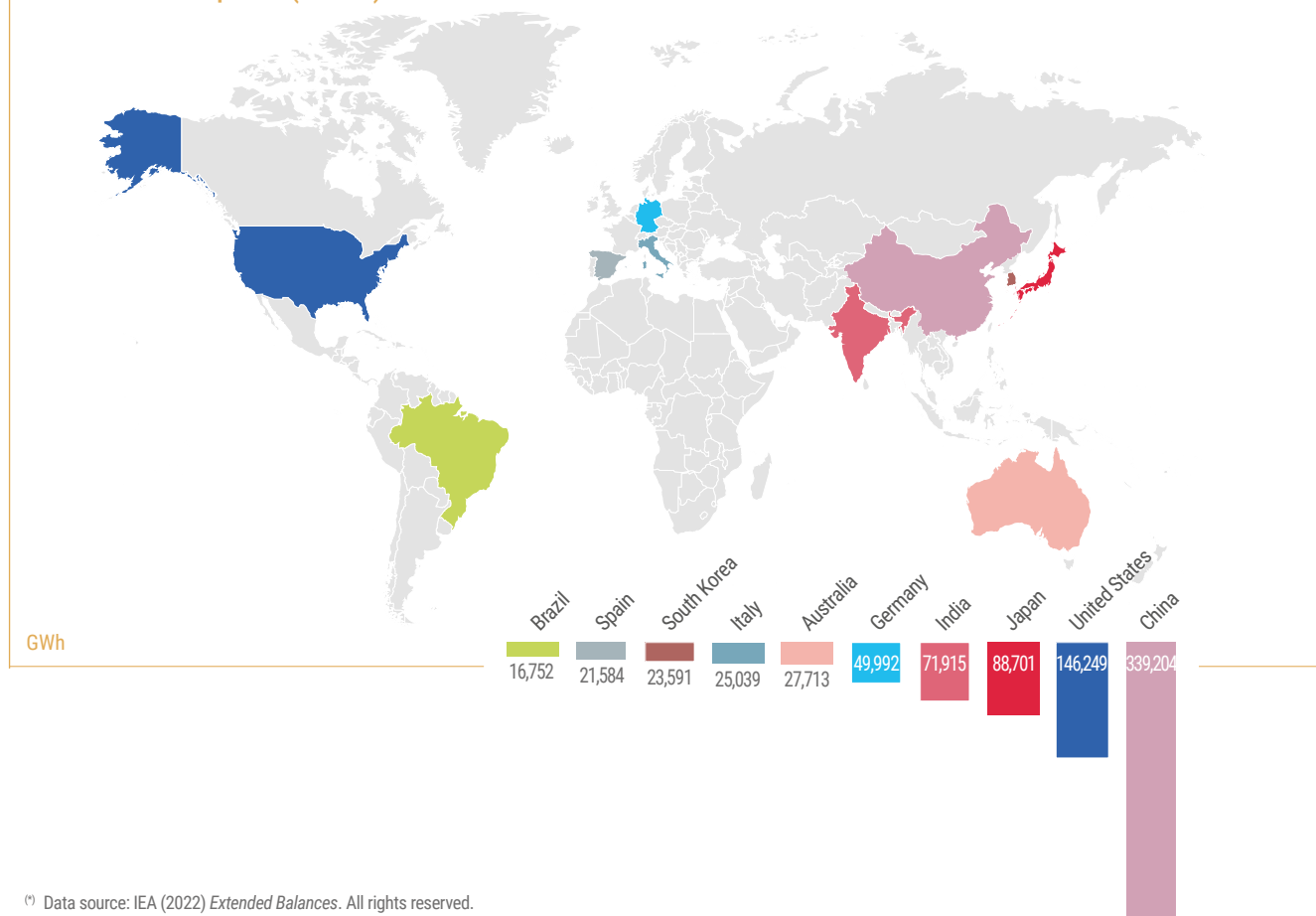
Solar Photovoltaic Power Generation

The World Top 10^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
China	84	699	39,500	66,500	117,800	176,900	224,300	260,500	339,204	30.2%	75.5%
United States	524	3,063	32,091	46,633	67,393	81,244	93,944	115,902	146,249	26.2%	42.1%
Japan	1,421	3,543	34,803	45,761	55,069	62,668	69,382	79,087	88,701	12.2%	34.0%
India	3	126	10,420	18,778	26,035	39,728	50,614	61,291	71,915	17.3%	78.1%
Germany	1,282	11,729	38,726	38,098	39,401	43,459	44,383	48,641	49,992	2.8%	14.1%
Australia	78	386	5,019	6,205	8,069	9,926	14,845	21,030	27,713	31.8%	47.5%
Italy	31	1,906	22,942	22,104	24,378	22,654	23,689	24,942	25,039	0.4%	26.4%
South Korea	15	772	3,975	5,123	7,056	9,208	12,996	17,967	23,591	31.3%	36.5%
Spain	48	6,425	8,266	8,064	8,514	7,877	9,420	15,675	21,584	37.7%	11.6%
Brazil			59	85	832	3,461	6,655	10,750	16,752	55.8%	
The World Top 10	3,486	28,649	195,801	257,351	354,547	457,125	550,228	655,785	810,740	23.6%	35.5%
Rest of the World	205	3,421	49,046	63,590	76,837	96,578	132,828	167,999		26.5%	47.6%
World	3,691	32,070	244,847	320,941	431,384	553,703	683,056	823,784		20.6%	38.3%

The World Top 10 (2021)



^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Solar Photovoltaic Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	$\Delta y/y$ (2021-2020)**	CAGR (2021-2010)**
Europe	1,488	22,598	104,631	108,808	118,967	131,914	145,338	172,251		18.5%	22.5%
Albania					1	1	22	32	71	121.9%	
Austria	21	89	937	1,096	1,269	1,455	1,702	2,043	2,809	37.5%	36.9%
Belarus			8	28	89	177	181	176		-2.8%	
Belgium	1	560	3,056	3,095	3,308	3,903	4,252	5,105	5,608	9.9%	23.3%
Bosnia Herzegovina				24	21	21	30	45	74	64.4%	
Bulgaria		15	1,383	1,386	1,403	1,343	1,442	1,481	1,451	-2.0%	51.5%
Croatia			57	66	79	75	83	96	149	55.2%	
Cyprus	1	6	127	146	172	199	218	296	477	61.1%	48.9%
Czech Republic		616	2,264	2,131	2,193	2,359	2,312	2,287	2,153	-5.9%	12.0%
Denmark	2	6	604	744	751	953	963	1,181	1,309	10.8%	63.2%
Estonia				10	14	31	74	123	305	148.0%	
Finland	3	5	11	22	49	90	147	218	305	39.9%	45.3%
France	11	620	7,754	8,660	9,586	10,891	12,227	13,398	15,095	12.7%	33.7%
Germany	1,282	11,729	38,726	38,098	39,401	43,459	44,383	48,641	49,992	2.8%	14.1%
Greece	1	158	3,900	3,930	3,991	3,791	4,429	4,447	5,106	14.8%	37.2%
Hungary		1	141	244	349	629	1,497	2,459	3,849	56.5%	111.8%
Ireland			4	6	12	22	40	64	79	23.4%	
Italy	31	1,906	22,942	22,104	24,378	22,654	23,689	24,942	25,039	0.4%	26.4%
Kosovo					1	2	11	10	46	360.0%	
Latvia						1	3	5	7	40.0%	
Lithuania			73	66	68	87	91	129	191	48.1%	
Luxembourg	18	21	104	100	108	119	130	161	244	51.6%	25.0%
Malta		1	95	128	162	190	195	237	256	8.0%	72.8%
Moldova			2	2	2	3	3	4	9	125.0%	
Montenegro								2			
Netherlands	35	56	1,108	1,602	2,208	3,708	5,401	8,765	11,332	29.3%	62.0%
North Macedonia			23	24	24	23	23	24	25	4.2%	
Norway						2	13	27	175	548.1%	
Poland			57	124	165	300	711	1,958	3,949	101.7%	
Portugal	3	211	796	871	992	1,006	1,342	1,716	2,196	28.0%	23.7%
Romania			1,982	1,820	1,856	1,771	1,778	1,733	1,703	-1.7%	
Serbia			11	12	13	13	14	13	14	7.7%	
Slovakia		17	506	533	506	585	589	663	667	0.6%	39.6%
Slovenia		13	274	267	284	255	303	368	453	23.1%	38.1%
Spain	48	6,425	8,266	8,064	8,514	7,877	9,420	15,675	21,584	37.7%	11.6%
Sweden	2	9	97	143	230	407	679	1,051	1,507	43.4%	59.3%
Switzerland	21	94	1,119	1,333	1,683	1,945	2,178	2,599	2,871	10.5%	36.5%
Türkiye			194	1,043	2,889	7,800	9,250	10,950	13,294	21.4%	
Ukraine			477	491	739	1,099	2,933	5,969	2,596	-56.5%	
United Kingdom	8	40	7,533	10,395	11,457	12,668	12,580	13,158	12,384	-5.9%	68.4%

(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

(**) When 2021 data is missing, the figure refers to the latest available years.

Solar Photovoltaic Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Russia and Central Asia			459	634	758	1,162	2,215	3,696		66.9%	
Russia			335	462	558	720	1,279	2,022	2,300	13.7%	
Armenia			1	1	3	19	61	137	90	-34.3%	
Azerbaijan			5	35	37	39	44	47	55	17.0%	
Kazakhstan			118	136	160	384	831	1,490		79.3%	
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Middle East		94	1,412	2,326	3,383	5,138	9,643	13,715		42.2%	64.6%
Iran			1	4	86	340	410	510		24.4%	
Iraq			57	57	57	57	57	57		0.0%	
Israel		70	1,115	1,544	1,511	1,574	2,609	3,525	4,635	31.5%	46.4%
Jordan			2	422	908	1,426	2,059	2,865		39.1%	
Kuwait			5	9	13	20	20	20		0.0%	
Lebanon		1	17	37	56	86	117	117		0.0%	61.0%
Oman			4	4	16	16	17	128		652.9%	
Saudi Arabia		4	46	46	65	65	320	779		143.4%	69.4%
United Arab Emirates		17	49	48	477	1,070	3,550	5,224		47.2%	77.3%
Yemen		2	116	155	194	484	484	490		1.2%	73.3%

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^(**) When 2021 data is missing, the figure refers to the latest available years.

Solar Photovoltaic Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Africa	20	347	2,589	3,777	5,224	6,988	10,776	11,581		7.5%	42.0%
Algeria			58	87	572	655	675	665		-1.5%	
Benin			5	5	5	5	8	7		-12.5%	
Cameroon		1	10	12	16	20	20	20		0.0%	34.9%
Congo			1	1	1	1	1	1		0.0%	
Côte d'Ivoire		2	5	5	7	7	11	11		0.0%	18.6%
Dem. Rep. Congo			1	5	7	28	28	30		7.1%	
Egypt		206	168	580	537	1,525	4,430	4,506		1.7%	36.1%
Ethiopia			18	21	22	20	20	32		60.0%	
Gabon			2	2	2	2	2	2		0.0%	
Ghana			3	27	28	33	51	57		11.8%	
Kenya		3	50	60	73	90	92	88		-4.3%	40.2%
Libya	2	6	8	8	8	8	8	8		0.0%	2.9%
Madagascar						15	32	23		-28.1%	
Morocco			1	1	1	156	395	390	467	19.7%	
Mozambique			1	2	2	1	31	70		125.8%	
Namibia	3	7	39	57	108	233	348	369		6.0%	48.7%
Niger	2	3	4	5	10	13	24	24		0.0%	23.1%
Nigeria			25	27	28	28	41	42		2.4%	
Rwanda			15	21	16	16	18	18		0.0%	
Senegal	3	3	4	6	91	252	291	385		32.3%	62.5%
South Africa			1,946	2,509	3,249	3,212	3,255	3,603	5,001	38.8%	
South Sudan			2	2	3	10	11	11		0.0%	
Tanzania	3	7	15	33	39	46	46	51		10.9%	22.0%
Tunisia		1	65	109	133	174	245	333		35.9%	78.7%
Uganda	4	22	32	39	62	71	117	118		0.9%	18.3%
Zambia							118	150	148	-1.3%	
Zimbabwe								24			
Others Africa	3	86	111	153	204	367	458	543		18.6%	20.2%

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^(**) When 2021 data is missing, the figure refers to the latest available years.

Solar Photovoltaic Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	$\Delta y/y$ (2021-2020)**	CAGR (2021-2010)**
Asia - Pacific	1,620	5,625	98,039	149,534	223,452	309,283	391,160	467,224		19.4%	55.6%
Australia	78	386	5,019	6,205	8,069	9,926	14,845	21,030	27,713	31.8%	47.5%
Bangladesh			210	233	268	291	347	401		15.6%	
Brunei			2	1	2	2	2	2		0.0%	
China	84	699	39,500	66,500	117,800	176,900	224,300	260,500	339,204	30.2%	75.5%
Hong Kong		1	4	4	6	6	17	18		5.9%	33.5%
India	3	126	10,420	18,778	26,035	39,728	50,614	61,291	71,915	17.3%	78.1%
Indonesia		1	5	21	29	90	118	171	193	12.9%	61.4%
Japan	1,421	3,543	34,803	45,761	55,069	62,668	69,382	79,087	88,701	12.2%	34.0%
Malaysia	1		273	310	330	573	1,404	2,338		66.5%	
Mongolia		8	8	8	27	34	81	71		-12.3%	24.4%
Myanmar			7	11	9	10	45	41		-8.9%	
Nepal			1	1	1	1	1	1		0.0%	
New Zealand		4	37	57	77	100	128	160	203	26.9%	42.9%
North Korea		1	11	13	14	15	16	16		0.0%	32.0%
Pakistan			207	630	768	629	705	795		12.8%	
Philippines	2	1	139	1,097	1,201	1,249	1,246	1,373		10.2%	106.0%
Singapore		5	69	146	175	237	410	497	668	34.4%	56.0%
South Korea	15	772	3,975	5,123	7,056	9,208	12,996	17,967	23,591	31.3%	36.5%
Sri Lanka	14	17	21	23	141	117	117	118		0.9%	21.4%
Taiwan	1	26	875	1,132	1,692	2,740	4,014	6,095		51.8%	72.6%
Thailand		20	2,378	3,377	4,543	4,537	5,146	5,031	4,288	-14.8%	62.9%
Vietnam						22	4,818	9,575		98.7%	
Others Asia-Pacific	1	15	75	103	140	200	408	646		58.3%	90.8%

^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Solar Photovoltaic Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Americas	563	3,406	37,717	55,862	79,600	99,218	123,924	155,317		25.3%	46.5%
Argentina			15	14	16	108	800	1,345	2,203	63.8%	
Bolivia			5	6	6	127	188	332	471	41.9%	
Brazil			59	85	832	3,461	6,655	10,750	16,752	55.8%	
Canada	17	255	2,895	4,030	3,892	4,107	4,415	4,846	5,166	6.6%	31.5%
Chile			1,261	2,639	3,915	5,218	6,419	7,971	10,602	33.0%	
Colombia	7	8	9	9	14	21	137	201	323	60.7%	40.0%
Costa Rica			3	30	40	59	77	76	61	-19.7%	
Cuba			29	39	58	149	232	242		4.3%	
Curacao			17	19	20	20	20	22		10.0%	
Dominican Republic			32	75	139	230	354	434		22.6%	
Ecuador			36	39	37	38	38	38	37	-2.6%	
El Salvador			7	24	164	285	490	902		84.1%	
Guatemala			150	193	199	205	232	219	227	3.7%	
Guyana			5	5	7	11	18	12		-33.3%	
Haiti			2	2	3	3	3	3		0.0%	
Honduras		2	420	887	926	995	1,118	1,046		-6.4%	87.0%
Jamaica				15	44	46	90	124		37.8%	
Mexico	9	31	239	464	1,085	1,363	7,057	9,115	12,437	36.4%	72.5%
Nicaragua			2	2	14	24	26	26		0.0%	
Panama			16	71	156	233	295	317		7.5%	
Peru			230	241	287	750	779	794	819	3.1%	
Suriname			9	9	9	10	10	10		0.0%	
Trinidad and Tobago	2	4	6	6	6	5	5	5		0.0%	2.3%
United States	524	3,063	32,091	46,633	67,393	81,244	93,944	115,902	146,249	26.2%	42.1%
Uruguay			49	151	269	414	424	462	483	4.5%	
Venezuela		2	7	7	7	6	9	9		0.0%	16.2%
Others Americas	4	41	123	167	62	86	89	114		28.1%	10.8%

^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Concentrated Solar Power Capacity

Areas and Aggregates^(*)

(MW)

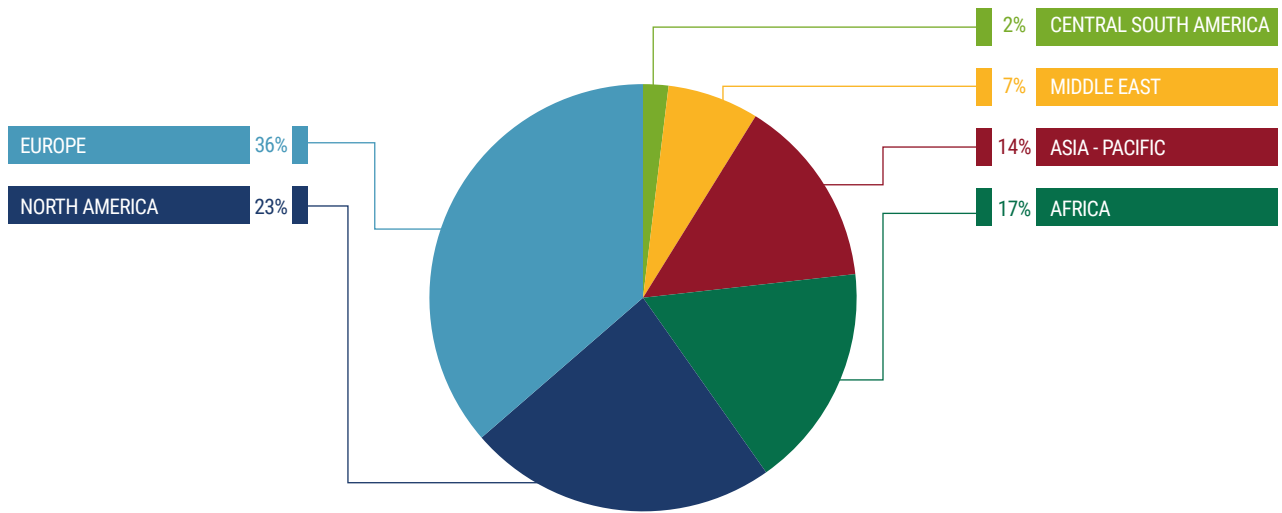
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe		739	2,313	2,313	2,313	2,313	2,322	2,322	2,322	0.0%	11.0%
Middle East		6	106	106	106	156	448	442	442	0.0%	47.6%
Africa		45	325	425	525	985	1,085	1,085	1,085	0.0%	33.6%
Asia - Pacific	0	3	348	368	367	583	747	897	921	2.7%	68.3%
Americas	388	473	1,758	1,758	1,758	1,774	1,775	1,765	1,621	-8.2%	11.8%
- North America	388	473	1,758	1,758	1,758	1,758	1,758	1,748	1,496	-14.4%	11.0%
- Central South America						16	17	17	125	636.9%	
World	388	1,266	4,850	4,970	5,069	5,811	6,377	6,511	6,390	-1.8%	15.9%
European Union 27		739	2,312	2,312	2,312	2,312	2,321	2,321	2,321	0.0%	11.0%
MENA		51	331	331	331	741	1,033	1,027	1,027	0.0%	31.4%
OECD	388	1,221	4,079	4,079	4,078	4,095	4,347	4,331	4,187	-3.3%	11.9%
NON OECD		45	770	890	990	1,716	2,030	2,180	2,204	1.1%	42.4%
OPEC		25	125	125	125	175	225	225	225	0.0%	22.1%
NON OPEC	388	1,241	4,725	4,845	4,944	5,636	6,152	6,285	6,165	-1.9%	15.7%

^(*) Data source: Eni's calculations on IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi data.

Concentrated Solar Power Capacity

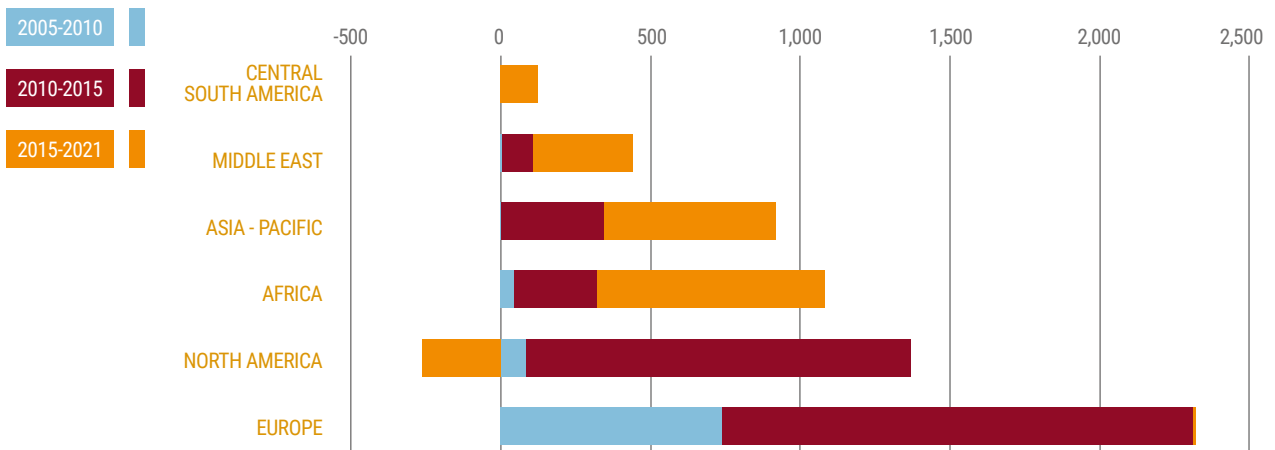
World Concentrated Solar Power Capacity (2021)

6,390 MW



World Concentrated Solar Power Capacity Growth (2005-2021)

6,002 MW



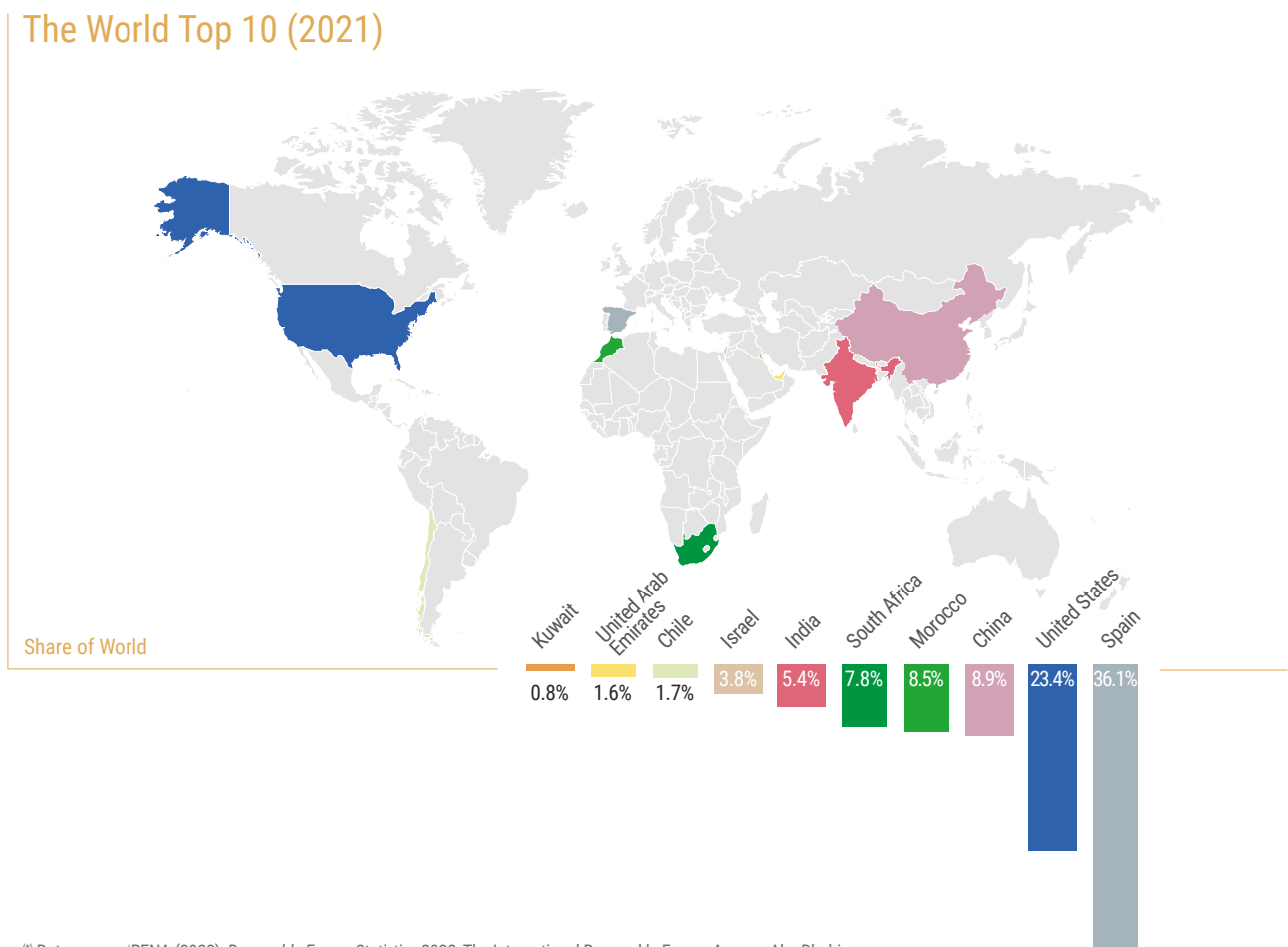
Concentrated Solar Power Capacity

The World Top 10^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Spain		732	2,304	2,304	2,304	2,304	2,304	2,304	2,304	0.0%	11.0%
United States	388	473	1,758	1,758	1,758	1,758	1,758	1,748	1,496	-14.4%	11.0%
China			11	31	31	246	396	546	570	4.4%	
Morocco		20	180	180	180	540	540	540	540	0.0%	34.9%
South Africa			100	200	300	400	500	500	500	0.0%	
India			329	329	329	329	343	343	343	0.0%	
Israel		6	6	6	6	6	248	242	242	0.0%	39.7%
Chile									108		
United Arab Emirates			100	100	100	100	100	100	100	0.0%	
Kuwait							50	50	50	0.0%	
The World Top 10	388	1,231	4,788	4,908	5,008	5,683	6,239	6,373	6,252	-1.9%	15.9%
Rest of the World	0	35	62	62	61	128	138	138	138	0.0%	13.4%
World	388	1,266	4,850	4,970	5,069	5,811	6,377	6,511	6,390	-1.8%	15.9%

The World Top 10 (2021)



^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Concentrated Solar Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe		739	2,313	2,313	2,313	2,313	2,322	2,322	2,322	0.0%	11.0%
France							9	9	9	0.0%	
Germany		2	2	2	2	2	2	2	2	0.0%	0.0%
Italy		5	6	6	6	6	6	6	6	0.0%	2.3%
Spain		732	2,304	2,304	2,304	2,304	2,304	2,304	2,304	0.0%	11.0%
Turkey			1	1	1	1	1	1	1	0.0%	
Middle East		6	106	106	106	156	448	442	442	0.0%	47.6%
Kuwait							50	50	50	0.0%	
Israel		6	6	6	6	6	248	242	242	0.0%	39.7%
Saudi Arabia						50	50	50	50	0.0%	
United Arab Emirates			100	100	100	100	100	100	100	0.0%	
Africa		45	325	425	525	985	1,085	1,085	1,085	0.0%	33.6%
Algeria		25	25	25	25	25	25	25	25	0.0%	0.0%
Egypt			20	20	20	20	20	20	20	0.0%	
Morocco		20	180	180	180	540	540	540	540	0.0%	34.9%
South Africa			100	200	300	400	500	500	500	0.0%	
Asia - Pacific		0	3	348	368	367	583	747	897	2.7%	68.3%
Australia		0	3	3	3	2	3	3	3	0.0%	0.0%
China			11	31	31	246	396	546	570	4.4%	
India			329	329	329	329	343	343	343	0.0%	
Thailand			5	5	5	5	5	5	5	0.0%	
Americas		388	473	1,758	1,758	1,758	1,774	1,775	1,765	-8.2%	11.8%
Chile									108		
Mexico						16	17	17	17	0.0%	
United States		388	473	1,758	1,758	1,758	1,758	1,748	1,496	-14.4%	11.0%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Concentrated Solar Power Generation

Areas and Aggregates^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Europe		761	5,593	5,579	5,883	4,867	5,683	4,992		-12.2%	20.7%
Middle East			243	261	257	233	810	1,050		29.6%	
Africa			194	898	1,101	1,823	2,740	2,558		-6.6%	
Asia - Pacific	1	5	33	33	44	383	1,098	1,687		53.6%	79.0%
Americas	596	879	3,544	3,701	3,587	3,940	3,535	3,427		-3.1%	14.6%
-North America	596	879	3,544	3,701	3,587	3,940	3,535	3,427	3,191	-6.9%	12.4%
World	597	1,645	9,607	10,472	10,872	11,246	13,866	13,715		-1.1%	23.6%
European Union 27		761	5,593	5,579	5,883	4,867	5,683	4,992	5,175	3.7%	19.0%
MENA			247	661	671	1,027	1,996	2,180		9.2%	
OECD	597	1,643	9,141	9,284	9,472	8,810	9,726	9,060	9,209	1.6%	17.0%
NON OECD		2	466	1,188	1,400	2,436	4,140	4,655		12.4%	117.1%
OPEC			243	261	257	233	305	412		35.1%	
NON OPEC	597	1,645	9,364	10,211	10,615	11,013	13,561	13,303		-1.9%	23.2%

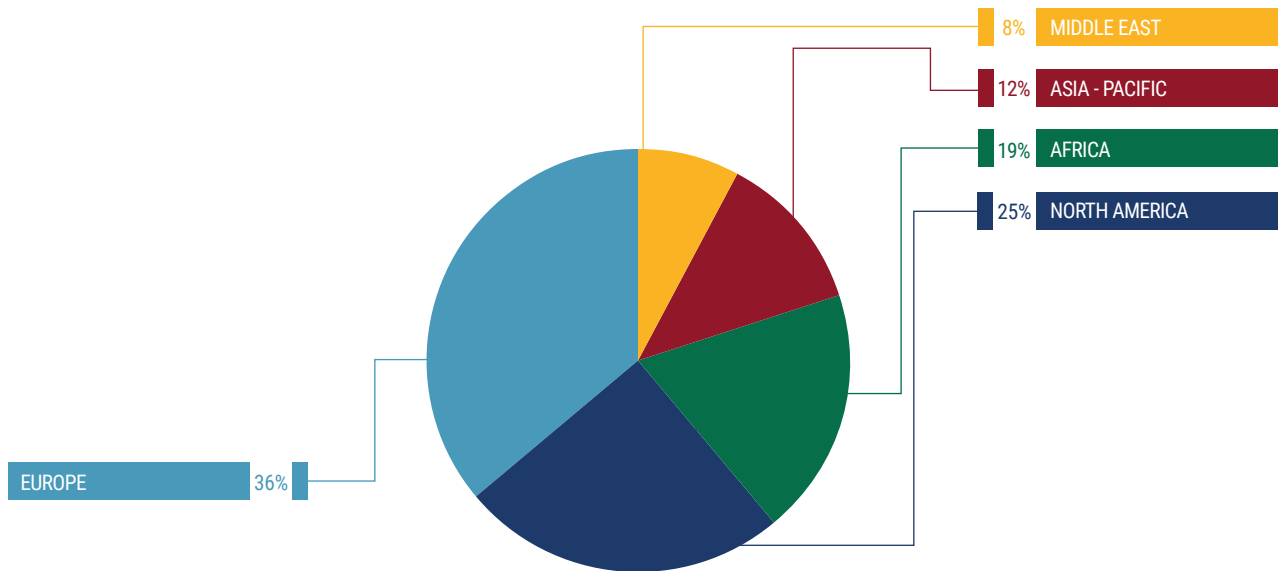
^(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* data. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Concentrated Solar Power Generation

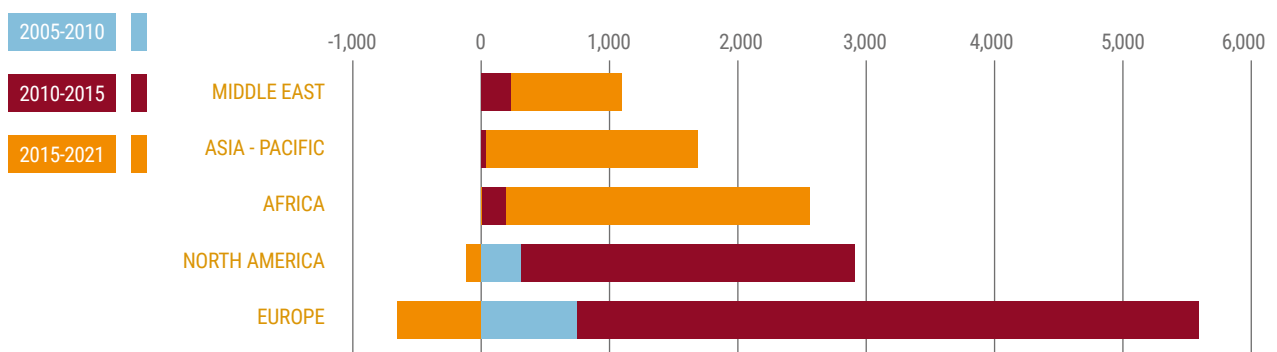
World Concentrated Solar Power Generation (2020)

13,715 GWh



World Concentrated Solar Power Generation Growth (2005-2020)

13,118 GWh



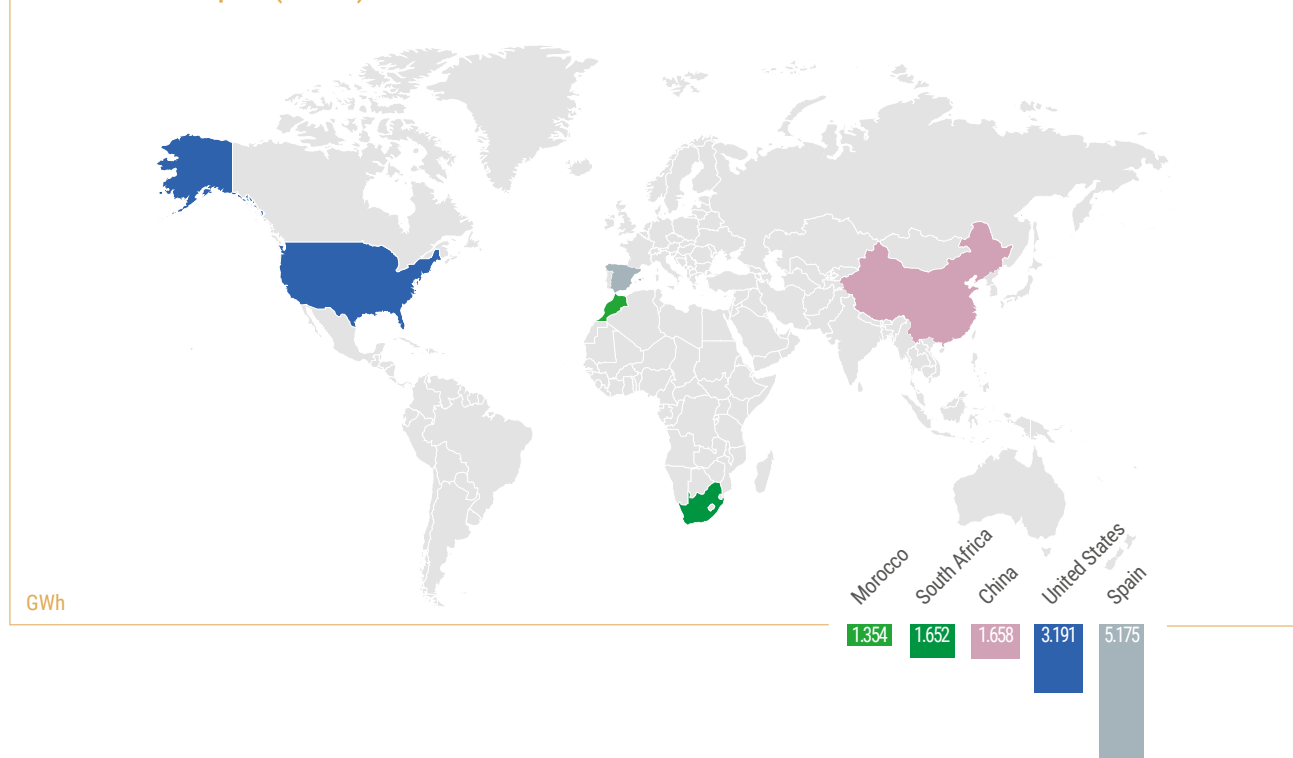
Concentrated Solar Power Generation

The World Top 5^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Spain		761	5,593	5,579	5,883	4,867	5,683	4,992	5,175	3.7%	19.0%
United States	596	879	3,544	3,701	3,587	3,940	3,535	3,427	3,191	-6.9%	12.4%
China		2	29	29	42	380	1,095	1,684	1,658	-1.5%	84.2%
South Africa			190	498	687	1,029	1,554	1,428	1,652	15.7%	
Morocco			4	400	414	794	1,186	1,130	1,354	19.8%	
The World Top 5	596	1,642	9,360	10,207	10,613	11,010	13,053	12,661	13,030	2.9%	20.7%
Rest of the World	1	3	247	265	259	236	813	1,054		29.6%	79.7%
World	597	1,645	9,607	10,472	10,872	11,246	13,866	13,715		-1.1%	23.6%

The World Top 5 (2021)



^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.
^(**) When 2021 data is missing, the figure refers to the latest available years.

Concentrated Solar Power Generation

Countries^(*)

(GWh)

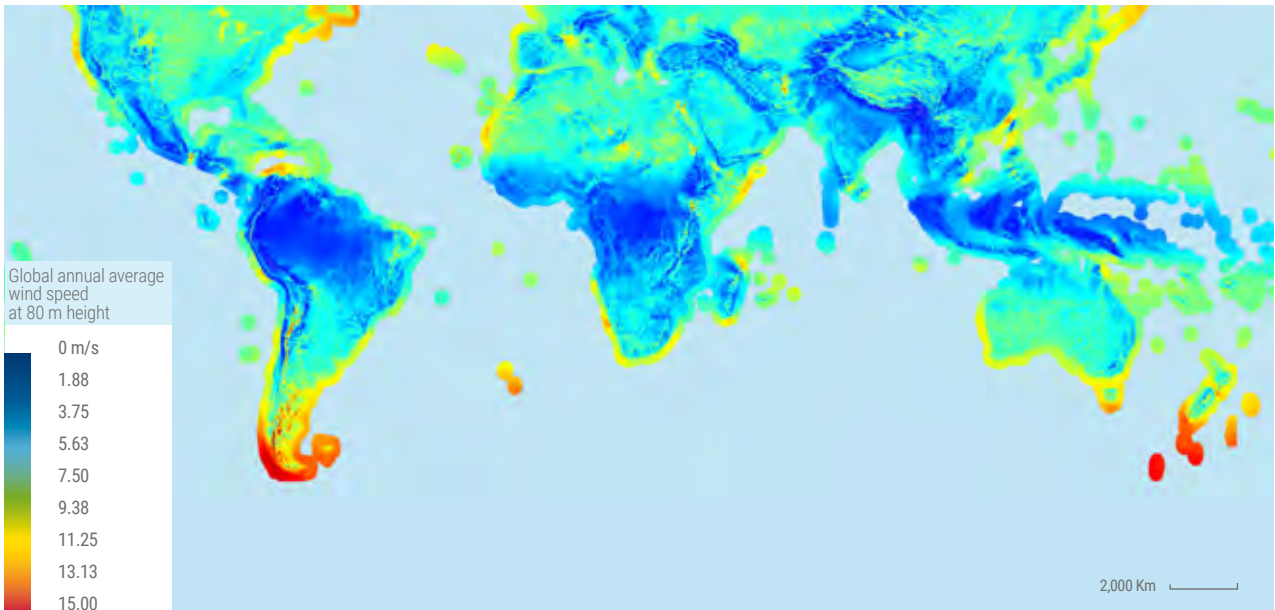
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Europe		761	5,593	5,579	5,883	4,867	5,683	4,992		-12.2%	20.7%
Spain		761	5,593	5,579	5,883	4,867	5,683	4,992	5,175	3.7%	19.0%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Middle East			243	261	257	233	810	1,050		29.6%	
Israel							505	638	839	31.5%	
Kuwait							75	160		113.3%	
United Arab Emirates			243	261	257	233	230	252		9.6%	
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Africa			194	898	1,101	1,823	2,740	2,558		-6.6%	
Morocco			4	400	414	794	1,186	1,130	1,354	19.8%	
South Africa			190	498	687	1,029	1,554	1,428	1,652	15.7%	
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Asia - Pacific	1	5	33	33	44	383	1,098	1,687		53.6%	79.0%
Australia	1	3	4	4	2	3	3	3	4	33.3%	2.6%
China		2	29	29	42	380	1,095	1,684	1,658	-1.5%	84.2%
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Americas	596	879	3,544	3,701	3,587	3,940	3,535	3,427		-3.1%	14.6%
United States	596	879	3,544	3,701	3,587	3,940	3,535	3,427	3,191	-6.9%	12.4%

(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

(**) When 2021 data is missing, the figure refers to the latest available years.

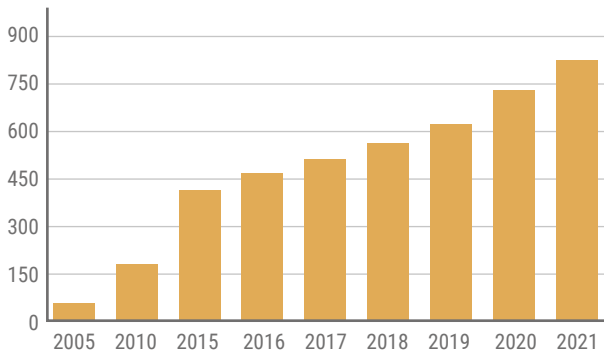
Wind Resources Map (Average Wind Speed at 80 m height)^(*)

(m/s)



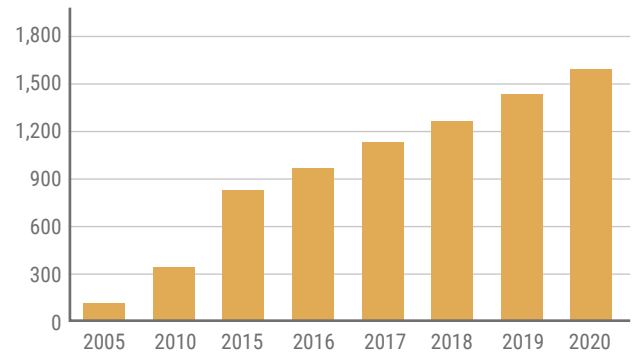
Wind Power Capacity

(GW)



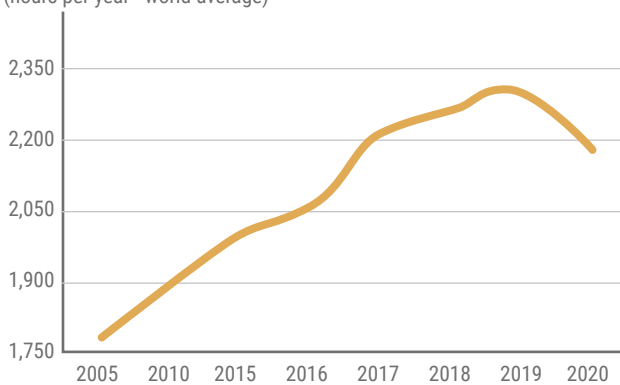
Wind Power Generation

(TWh)

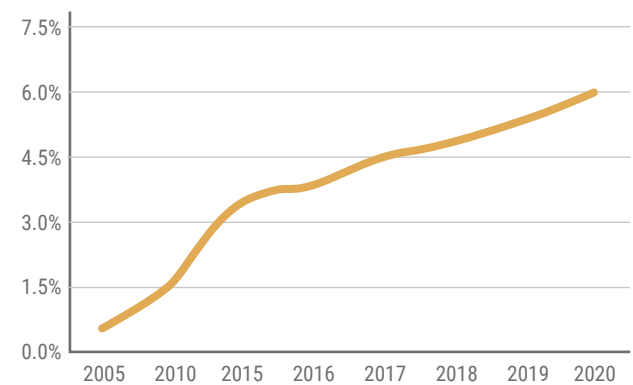


Capacity Factor

(hours per year - world average)



Share of Wind on Total Power Generation



^(*) IRENA: Global Atlas, Map data: VAISALA, 2022.

Wind Power Capacity

Areas and Aggregates^(*)

(MW)

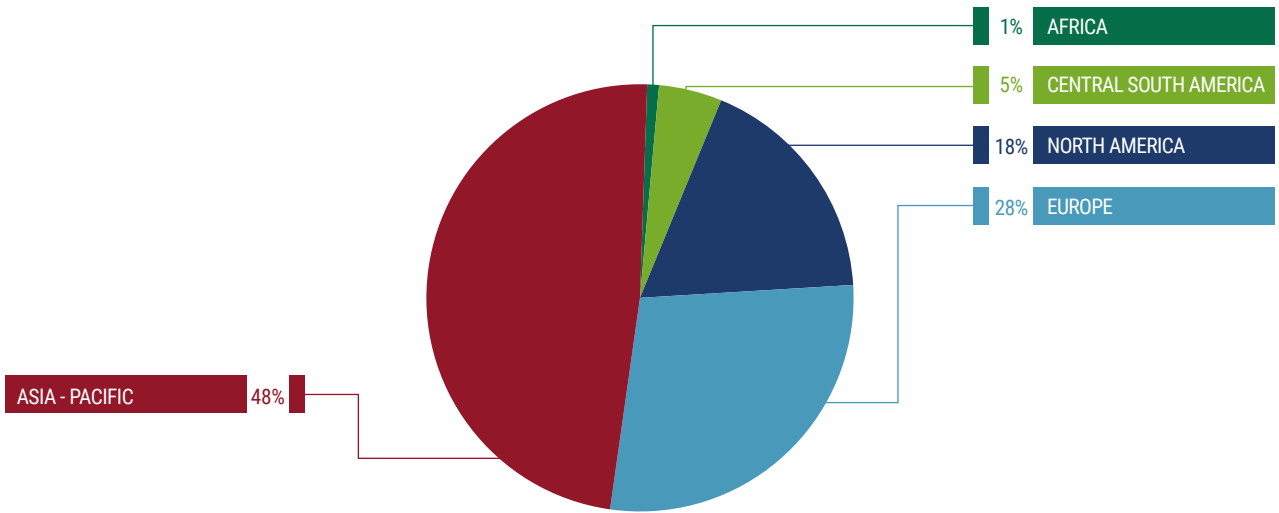
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	40,705	86,240	147,513	161,514	177,141	188,748	203,717	216,669	231,367	6.8%	9.4%
Russia and Central Asia	13	15	93	148	163	263	476	1,522	3,217	111.3%	63.3%
Middle East	45	104	286	423	504	609	775	923	1,029	11.4%	23.2%
Africa	240	865	3,320	3,826	4,579	5,472	5,529	6,485	7,334	13.1%	21.5%
Asia - Pacific	7,810	48,537	166,653	189,153	210,456	235,156	264,409	341,158	394,049	15.5%	21.0%
Americas	9,594	45,106	98,303	111,802	121,353	134,069	146,177	164,866	186,488	13.1%	13.8%
- North America	9,383	43,102	83,787	93,259	99,847	107,332	117,465	132,359	147,041	11.1%	11.8%
- Central South America	211	2,004	14,516	18,543	21,506	26,737	28,712	32,507	39,447	21.3%	31.1%
World	58,407	180,866	416,169	466,866	514,196	564,316	621,083	731,623	823,484	12.6%	14.8%
European Union 27	38,760	78,937	127,169	138,011	148,920	157,167	167,161	176,985	187,522	6.0%	8.2%
MENA	268	933	2,088	2,325	2,532	3,219	3,387	3,963	4,359	10.0%	15.0%
OECD	52,260	133,994	239,019	264,206	287,421	308,927	334,701	366,099	397,597	8.6%	10.4%
NON OECD	6,147	46,872	177,150	202,660	226,776	255,389	286,382	365,524	425,887	16.5%	22.2%
OPEC	37	95	239	275	356	378	402	405	407	0.5%	14.1%
NON OPEC	58,370	180,771	415,930	466,591	513,841	563,938	620,681	731,218	823,077	12.6%	14.8%

^(*) Data source: Eni's calculations on IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi data.

Wind Power Capacity

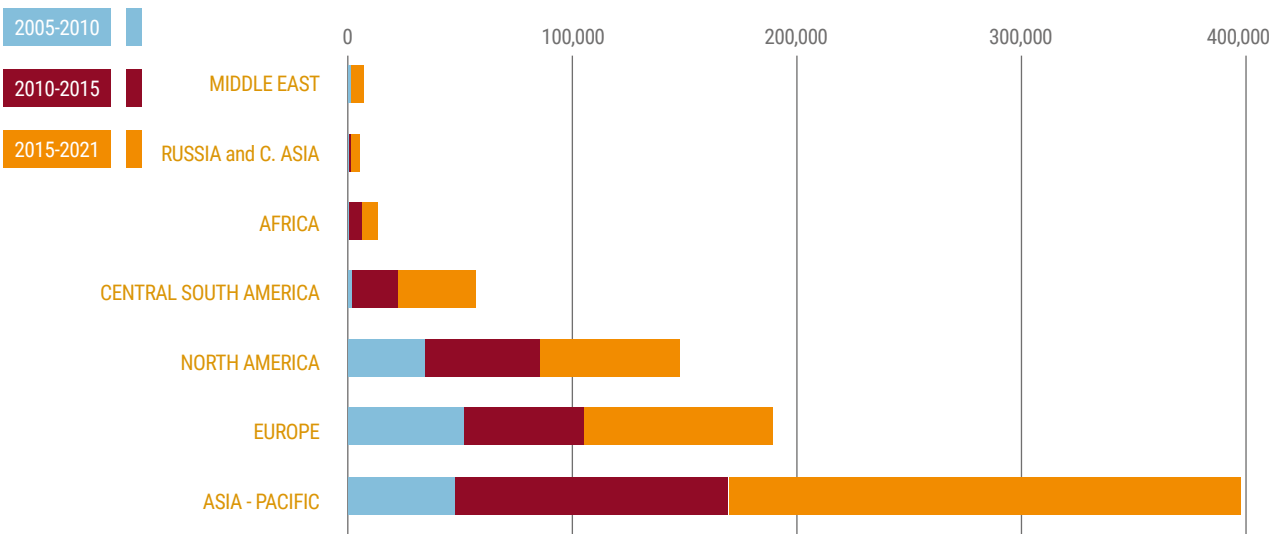
World Wind Power Capacity (2021)

823,484 MW



World Wind Power Capacity Growth (2005-2021)

765,077 MW



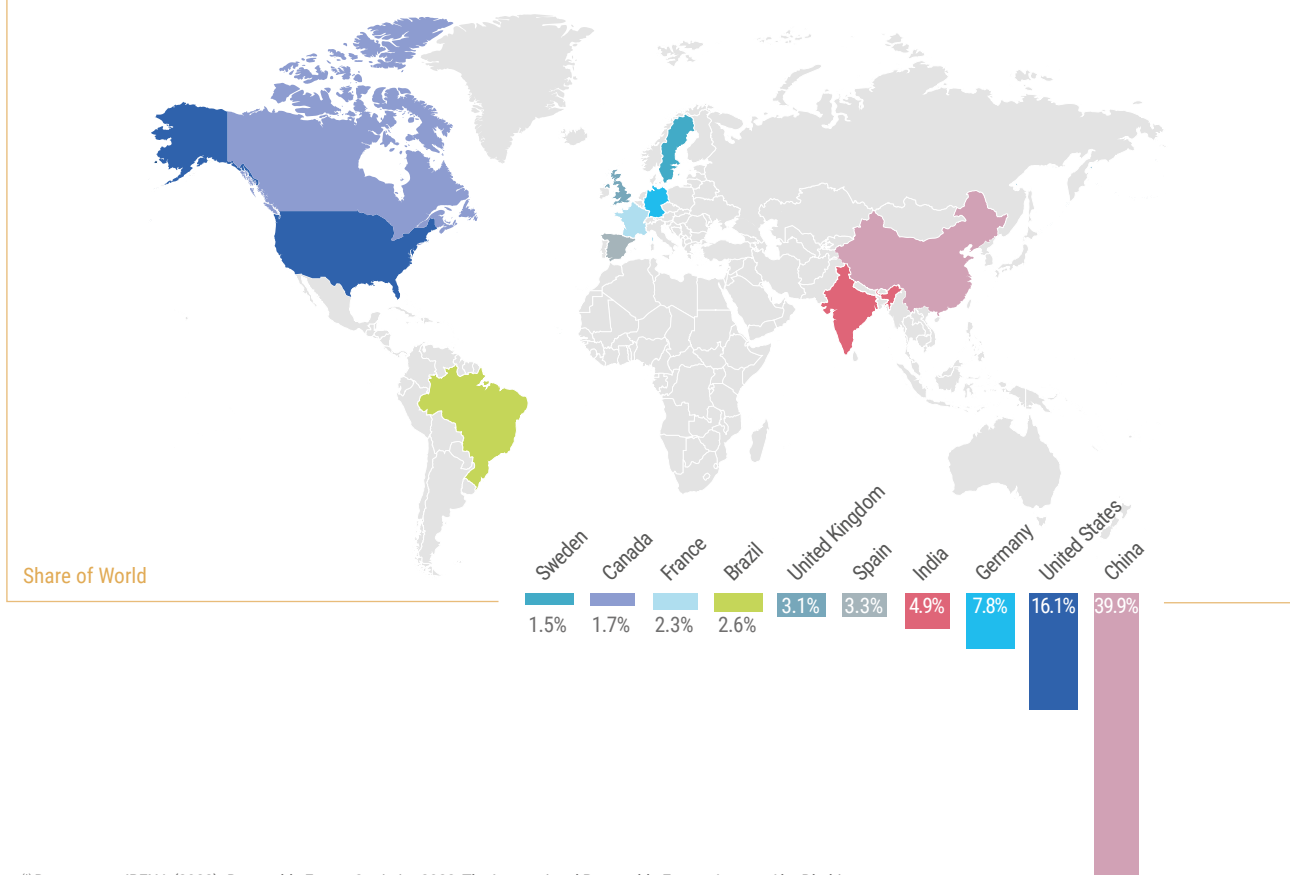
Wind Power Capacity

The World Top 10^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
China	1,060	29,633	131,048	148,517	164,374	184,665	209,582	282,113	328,973	16.6%	24.5%
United States	8,706	39,135	72,573	81,286	87,597	94,516	104,052	118,732	132,738	11.8%	11.7%
Germany	18,248	26,903	44,580	49,435	55,580	58,721	60,742	62,188	63,865	2.7%	8.2%
India	4,434	13,184	25,088	28,700	32,848	35,288	37,505	38,559	40,067	3.9%	10.6%
Spain	9,918	20,693	22,943	22,990	23,124	23,405	25,590	26,819	27,497	2.5%	2.6%
United Kingdom	1,565	5,421	14,306	16,126	19,585	21,605	23,882	24,485	25,730	5.1%	15.2%
Brazil	29	927	7,633	10,129	12,304	14,843	15,438	17,198	21,161	23.0%	32.9%
France	690	5,912	10,298	11,567	13,499	14,900	16,457	17,484	18,676	6.8%	11.0%
Canada	677	3,967	11,214	11,973	12,250	12,816	13,413	13,627	14,304	5.0%	12.4%
Sweden	522	2,017	5,819	6,435	6,611	7,300	8,681	9,976	12,080	21.1%	17.7%
The World Top 10	45,849	147,792	345,502	387,158	427,774	468,060	515,343	611,180	685,091	12.1%	15.0%
Rest of the World	12,558	33,074	70,667	79,708	86,422	96,256	105,741	120,443	138,393	14.9%	13.9%
World	58,407	180,866	416,169	466,866	514,196	564,316	621,083	731,623	823,484	12.6%	14.8%

The World Top 10 (2021)



^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Wind Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Europe	40,705	86,240	147,513	161,514	177,141	188,748	203,717	216,669	231,367	6.8%	9.4%
Austria	825	1,016	2,489	2,730	2,887	3,133	3,224	3,226	3,524	9.2%	12.0%
Belarus	1	2	22	62	84	92	112	112	112	-0.3%	44.8%
Belgium	167	912	2,176	2,370	2,788	3,268	3,863	4,681	4,780	2.1%	16.3%
Bosnia Herzegovina			0	0	0	51	87	87	135	55.2%	
Bulgaria	8	488	699	699	698	699	703	703	705	0.3%	3.4%
Croatia	6	79	418	483	576	586	646	801	988	23.3%	25.8%
Cyprus	0	82	158	158	158	158	158	158	158	0.0%	6.1%
Czech Republic	22	213	281	282	308	316	339	339	339	0.0%	4.3%
Denmark	3,128	3,802	5,077	5,245	5,489	6,115	6,103	6,259	7,014	12.0%	5.7%
Estonia	31	108	300	310	312	310	316	317	317	0.0%	10.3%
Finland	82	197	1,005	1,565	2,044	2,041	2,284	2,586	3,257	25.9%	29.1%
France	690	5,912	10,298	11,567	13,499	14,900	16,457	17,484	18,676	6.8%	11.0%
Germany	18,248	26,903	44,580	49,435	55,580	58,721	60,742	62,188	63,865	2.7%	8.2%
Greece	491	1,298	2,091	2,370	2,624	2,877	3,589	4,119	4,457	8.2%	11.9%
Hungary	17	293	329	329	329	329	323	321	321	0.0%	0.8%
Iceland			3	3	2	2	2	2	2	0.0%	
Ireland	493	1,390	2,451	2,802	3,319	3,674	4,126	4,307	4,332	0.6%	10.9%
Italy	1,635	5,794	9,137	9,384	9,737	10,230	10,679	10,871	11,276	3.7%	6.2%
Kosovo		1	1	1	34	34	34	34	139	311.1%	56.6%
Latvia	26	30	68	70	77	78	78	78	81	3.9%	9.4%
Lithuania	1	133	436	509	518	533	534	540	671	24.3%	15.9%
Luxembourg	35	44	64	120	120	123	136	153	157	2.6%	12.3%
Malta			0	0	0	0	0	0	0	0.0%	
Moldova			1	2	9	33	35	41	51	24.1%	
Montenegro					72	72	118	118	118	0.0%	
Netherlands	1,224	2,237	3,391	4,257	4,202	4,393	4,484	6,619	7,801	17.9%	12.0%
North Macedonia			37	37	37	37	37	37	37	0.0%	
Norway	265	425	867	883	1,207	1,710	2,914	4,030	4,650	15.4%	24.3%
Poland	121	1,108	4,886	5,747	5,759	5,766	5,837	6,298	6,958	10.5%	18.2%
Portugal	1,064	3,796	4,937	5,124	5,124	5,172	5,223	5,122	5,248	2.5%	3.0%
Romania	1	389	3,130	3,025	3,030	3,032	3,038	3,013	3,013	0.0%	20.5%
Serbia			10	17	25	227	398	398	398	0.0%	
Slovakia	5	3	3	3	4	3	4	4	4	0.0%	2.6%
Slovenia			3	3	3	3	3	3	3	-0.5%	
Spain	9,918	20,693	22,943	22,990	23,124	23,405	25,590	26,819	27,497	2.5%	2.6%
Sweden	522	2,017	5,819	6,435	6,611	7,300	8,681	9,976	12,080	21.1%	17.7%
Switzerland	12	42	60	75	75	75	75	87	87	0.0%	6.9%
Türkiye	21	1,320	4,503	5,751	6,516	7,005	7,591	8,832	10,607	20.1%	20.9%
Ukraine	77	88	514	526	553	621	1,258	1,402	1,761	25.6%	31.3%
United Kingdom	1,565	5,421	14,306	16,126	19,585	21,605	23,882	24,485	25,730	5.1%	15.2%
Others Europe	4	4	20	20	20	16	13	19	19	-0.8%	14.9%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Wind Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Russia and Central Asia	13	15	93	148	163	263	476	1,522	3,217	111.3%	63.3%
Russia	10	10	11	11	11	52	102	945	1,955	106.8%	61.5%
Armenia	3	3	3	3	3	3	3	3	3	0.0%	0.9%
Azerbaijan		2	8	16	16	66	66	66	67	1.7%	37.6%
Georgia				20	20	20	21	21	21	0.0%	
Kazakhstan			72	98	112	121	284	486	1,170	140.6%	
Uzbekistan					1	1	1	1	1	0.0%	
Middle East	45	104	286	423	504	609	775	923	1,029	11.4%	23.2%
Bahrain		1	1	1	1	1	1	1	1	0.0%	0.0%
Iran	37	95	153	191	259	282	305	308	310	0.7%	11.4%
Israel	6	6	6	27	27	27	27	27	27	0.0%	14.7%
Jordan	1	1	118	198	198	280	373	518	622	20.0%	74.0%
Kuwait			2	2	12	12	12	12	12	0.0%	
Lebanon			3	3	3	3	3	3	3	0.0%	
Oman							50	50	50	0.0%	
Saudi Arabia					3	3	3	3	3	0.0%	
Syria	1	1	1	1	1	1	1	1	1	0.0%	0.0%
Others Middle East			2								
Africa	240	865	3,320	3,826	4,579	5,472	5,529	6,485	7,334	13.1%	21.5%
Algeria			10	10	10	10	10	10	10	0.0%	
Chad				1	1	1	1	1	1	0.0%	
Egypt	150	555	755	755	755	1,130	1,132	1,380	1,640	18.8%	10.4%
Ethiopia			324	324	324	324	324	324	324	0.0%	
Ghana			0	0	0	0	0	0	0	0.0%	
Kenya	0	6	26	26	26	336	336	336	436	29.8%	48.5%
Madagascar		0	0	0	0	0	0	0	0	0.0%	0.3%
Mauritania			34	34	34	34	34	34	34	0.0%	
Morocco	54	221	797	897	1,023	1,225	1,225	1,405	1,435	2.1%	18.5%
Namibia	0	0	0	0	5	5	5	5	5	0.0%	33.4%
Senegal							55	159	159	0.0%	
Somalia			3	3	4	4	4	4	4	0.0%	
South Africa	3	10	1,079	1,473	2,094	2,094	2,094	2,516	2,956	17.5%	67.5%
Tanzania							2		2	0.0%	
Tunisia	19	54	240	240	240	245	245	245	245	0.0%	14.8%
Others Africa	13	19	51	62	62	63	63	63	83	31.8%	14.4%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Wind Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Asia - Pacific	7,810	48,537	166,653	189,153	210,456	235,156	264,409	341,158	394,049	15.5%	21.0%
Afghanistan			0	0	0	0	0	0	0	0.0%	
Australia	740	1,864	4,181	4,324	4,812	5,442	6,279	8,603	8,951	4.0%	15.3%
Bangladesh		2	3	3	3	3	3	3	3	0.0%	3.9%
China	1,060	29,633	131,048	148,517	164,374	184,665	209,582	282,113	328,973	16.6%	24.5%
Hong Kong					1	1	1	1	1	0.0%	
India	4,434	13,184	25,088	28,700	32,848	35,288	37,505	38,559	40,067	3.9%	10.6%
Indonesia		0	1	1	1	144	154	154	154	0.0%	74.4%
Japan	1,227	2,294	2,808	3,247	3,483	3,498	3,954	4,367	4,467	2.3%	6.2%
Mongolia	0	1	51	51	101	156	156	156	156	0.0%	64.1%
Myanmar			0	0	0	0	0	0	0	0.0%	
Nepal			0	0	0	0	0	0	0	0.0%	
New Zealand	167	539	688	689	689	689	689	689	822	19.3%	3.9%
North Korea		0	0	0	1	1	1	1	1	0.0%	10.5%
Pakistan		6	308	591	789	1,186	1,236	1,236	1,335	8.0%	63.5%
Philippines	33	33	427	427	427	427	443	443	443	0.0%	26.6%
Singapore					0	0	0	0	0	0.0%	
South Korea	99	382	847	1,067	1,215	1,420	1,494	1,636	1,708	4.4%	14.6%
Sri Lanka	3	34	131	131	131	128	128	179	253	41.1%	20.0%
Taiwan	24	476	647	682	692	713	845	937	1,033	10.3%	7.3%
Thailand		6	234	507	628	1,103	1,507	1,507	1,507	0.0%	66.3%
Vietnam	31	136	160	205	237	375	518		4,118	695.0%	56.0%
Others Asia - Pacific	23	52	55	55	55	56	57	57	57	0.0%	0.7%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Wind Power Capacity

Countries^(*)

(MW)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Americas	9,594	45,106	98,303	111,802	121,353	134,069	146,177	164,866	186,488	13.1%	13.8%
Argentina	28	28	187	187	227	750	1,609	2,624	3,292	25.5%	54.3%
Barbados				0	0	0	0	0	0	0.0%	
Belize	0	0	0	0	0	0	0	0	0	0.0%	0.0%
Bolivia		0	3	27	27	27	27	27	128	373.3%	91.6%
Brazil	29	927	7,633	10,129	12,304	14,843	15,438	17,198	21,161	23.0%	32.9%
Canada	677	3,967	11,214	11,973	12,250	12,816	13,413	13,627	14,304	5.0%	12.4%
Chile	2	163	910	1,039	1,305	1,524	1,620	2,149	3,137	46.0%	30.8%
Colombia	10	18	18	18	18	18	18	18	18	0.0%	0.0%
Costa Rica	69	116	272	365	378	408	411	394	394	0.0%	11.8%
Cuba	2	7	12	12	12	12	12	12	12	0.0%	4.5%
Curacao	12	8	30	30	47	47	47	47	47	0.0%	17.4%
Dominican Republic			85	135	135	183	370	370	370	0.0%	
Ecuador		2	21	21	21	21	21	21	21	0.0%	21.9%
El Salvador								36	36	0.0%	
Guatemala			76	76	76	107	107	107	107	0.0%	
Guyana	0	0	0	0	0	0	0	0	0	0.0%	20.8%
Haiti						0	0	0	0	0.0%	
Honduras			152	175	225	225	241	241	241	0.0%	
Jamaica	21	39	39	99	99	99	99	99	99	0.0%	8.9%
Mexico	18	519	3,271	4,051	4,180	5,887	6,073	6,504	7,692	18.3%	27.8%
Nicaragua		63	186	186	186	186	186	186	186	0.0%	10.4%
Panama			253	270	270	270	270	270	270	0.0%	
Peru	1	1	240	240	240	372	372	409	409	0.0%	78.4%
Trinidad and Tobago			0	0	0	0	0	0	0	0.0%	
United States	8,706	39,135	72,573	81,286	87,597	94,516	104,052	118,732	132,738	11.8%	11.7%
Uruguay	0	41	857	1,211	1,511	1,511	1,514	1,514	1,514	0.0%	39.0%
Venezuela			71	71	71	71	71	71	71	0.0%	
Others Americas	20	72	199	199	175	175	204	209	241	15.4%	11.6%

^(*) Data source: IRENA (2022), *Renewable Energy Statistics 2022*, The International Renewable Energy Agency, Abu Dhabi.

Wind Power Generation

Areas and Aggregates^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Europe	71,602	154,013	319,000	322,890	384,193	403,305	462,273	512,954		11.0%	12.8%
Russia and Central Asia	7	12	288	457	592	862	1,231	2,459		99.8%	70.3%
Middle East	85	174	362	660	967	1,452	1,667	2,188		31.3%	28.8%
Africa	819	2,372	8,563	10,462	11,558	15,280	18,525	17,633		-4.8%	22.2%
Asia - Pacific	11,748	77,064	245,699	312,612	382,522	467,893	518,850	580,622		11.9%	22.4%
Americas	20,044	108,570	260,090	315,947	355,051	387,548	426,320	482,224		13.1%	16.1%
- North America	19,448	103,872	219,956	260,401	288,760	308,976	330,948	377,456	419,795	11.2%	13.5%
- Central South America	596	4,698	40,134	55,546	66,291	78,572	95,372	104,768		9.9%	36.4%
World	104,305	342,205	834,002	963,028	1,134,883	1,276,340	1,428,866	1,598,080		11.8%	16.7%
European Union 27	68,093	139,842	263,204	266,813	312,311	320,613	367,177	397,418	385,666	-3.0%	9.7%
MENA	885	2,470	5,406	6,363	6,793	8,797	11,133	11,486		3.2%	16.6%
OECD	94,462	269,814	559,878	608,142	698,778	745,121	831,839	935,091	971,250	3.9%	12.3%
NON OECD	9,843	72,391	274,124	354,886	436,105	531,219	597,027	662,989		11.0%	24.8%
OPEC	71	163	335	373	428	655	694	695		0.1%	15.6%
NON OPEC	104,234	342,042	833,667	962,655	1,134,455	1,275,685	1,428,172	1,597,385		11.8%	16.7%

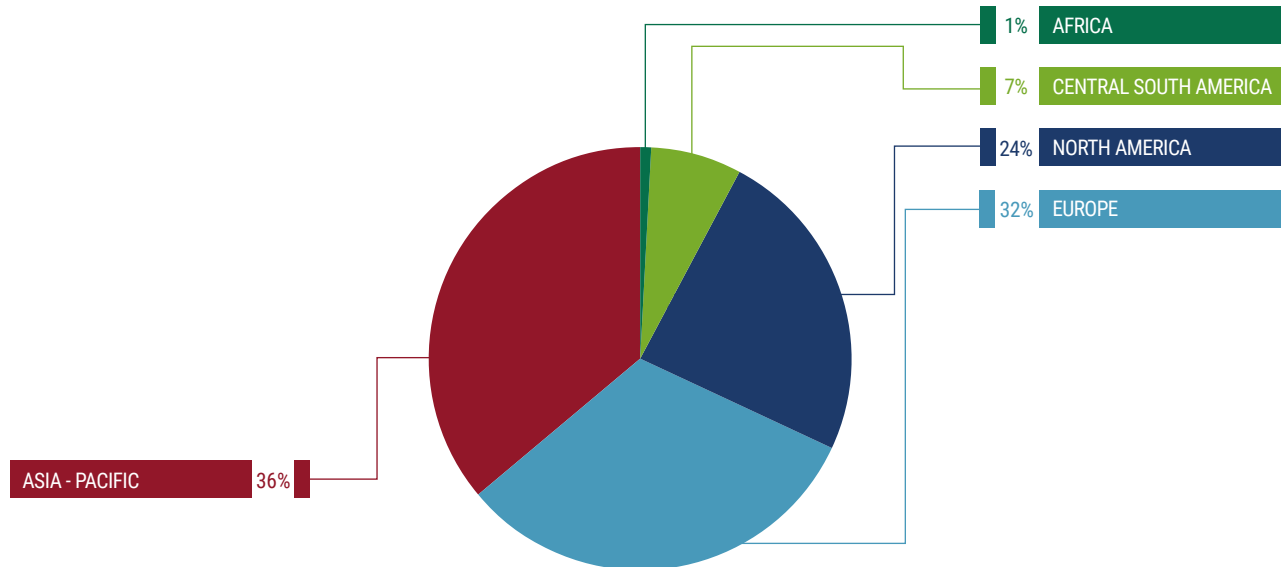
^(*) Data source: Eni's calculations on IEA (2022) *Extended Balances* data. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Wind Power Generation

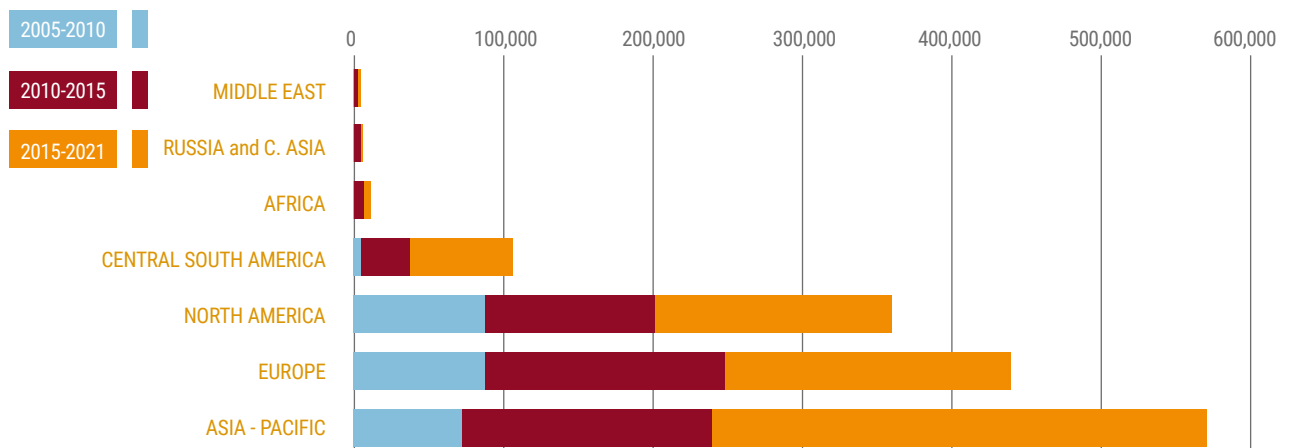
World Wind Power Generation (2020)

1,598,080 GWh



World Wind Power Generation Growth (2005-2020)

1,493,775 GWh



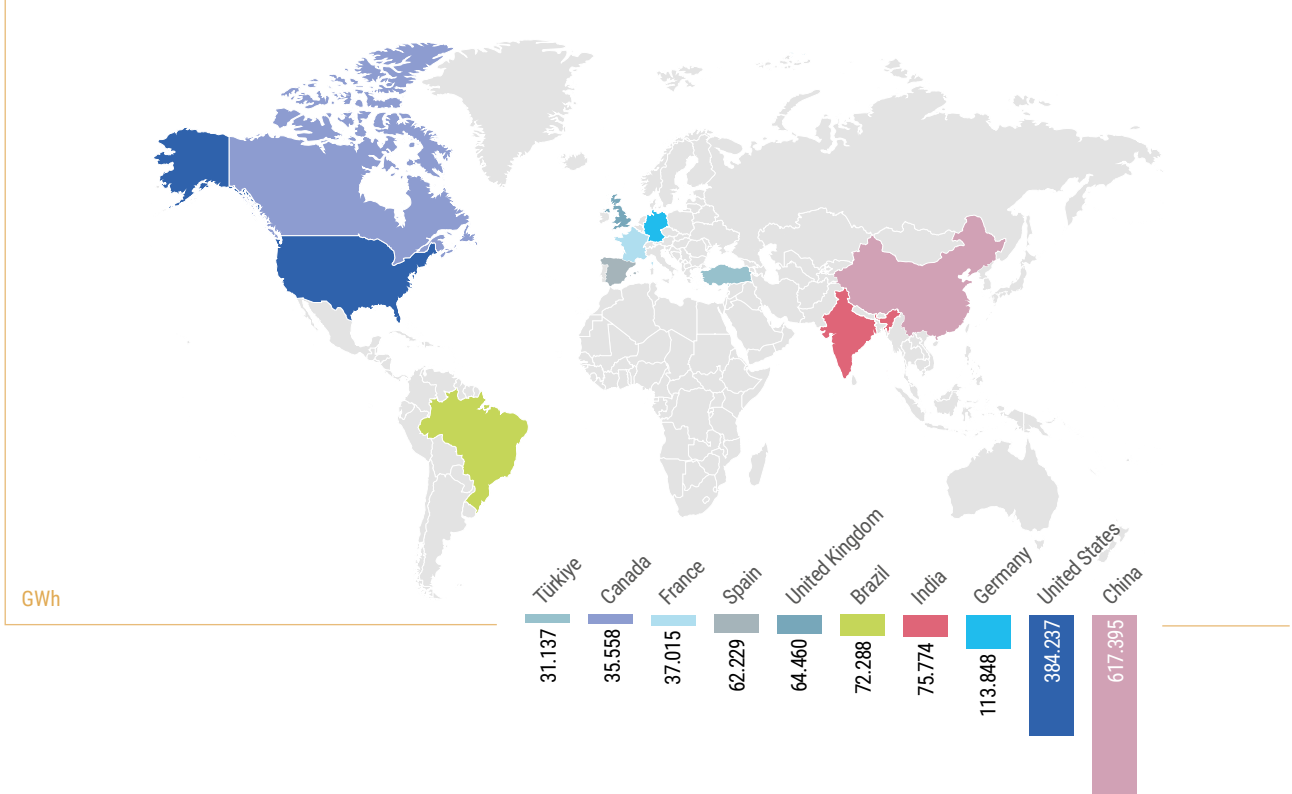
Wind Power Generation

The World Top 10^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
China	2,028	44,622	185,766	237,070	297,230	365,971	406,032	466,474	617,395	32.4%	27.0%
United States	17,881	95,148	192,992	229,471	257,249	275,834	298,200	341,818	384,237	12.4%	13.5%
Germany	27,774	38,547	80,624	79,924	105,693	109,951	125,894	132,102	113,848	-13.8%	10.3%
India	6,211	19,657	35,075	48,281	54,994	65,710	70,949	67,418	75,744	12.3%	13.0%
Brazil	93	2,177	21,626	33,488	42,373	48,475	55,986	57,051	72,286	26.7%	37.5%
United Kingdom	2,904	10,286	40,275	37,159	49,641	56,908	63,795	75,369	64,460	-14.5%	18.2%
Spain	21,176	44,271	49,325	48,905	49,127	50,896	55,647	56,444	62,229	10.2%	3.1%
France	962	9,945	21,421	21,381	24,609	28,599	34,787	39,792	37,015	-7.0%	12.7%
Canada	1,567	8,724	26,964	30,930	31,511	33,142	32,748	35,638	35,558	-0.2%	13.6%
Türkiye	59	2,916	11,652	15,517	17,904	19,949	21,731	24,828	31,137	25.4%	24.0%
The World Top 10	80,655	276,293	665,720	782,126	930,331	1,055,435	1,165,769	1,296,934	1,493,909	15.2%	16.6%
Rest of the World	23,650	65,912	168,282	180,902	204,552	220,905	263,097	301,146		14.5%	16.4%
World	104,305	342,205	834,002	963,028	1,134,883	1,276,340	1,428,866	1,598,080		11.8%	16.7%

The World Top 10 (2021)



(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

(**) When 2021 data is missing, the figure refers to the latest available years.

Wind Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Europe	71,602	154,013	319,000	322,890	384,193	403,305	462,273	512,954		11.0%	12.8%
Austria	1,331	2,064	4,840	5,235	6,572	6,030	7,450	6,792	6,740	-0.8%	11.4%
Belarus	1	1	26	75	97	99	178	194		9.0%	69.3%
Belgium	227	1,292	5,574	5,417	6,518	7,571	9,750	12,764	11,942	-6.4%	22.4%
Bosnia Herzegovina						103	254	262	383	46.2%	
Bulgaria	5	681	1,452	1,425	1,504	1,318	1,317	1,477	1,434	-2.9%	7.0%
Croatia	10	139	796	1,014	1,204	1,335	1,467	1,721	2,062	19.8%	27.8%
Cyprus		32	222	227	211	221	239	240	247	2.9%	20.4%
Czech Republic	21	335	573	497	591	609	700	699	602	-13.9%	5.5%
Denmark	6,614	7,809	14,133	12,782	14,780	13,902	16,150	16,330	16,054	-1.7%	6.8%
Estonia	54	277	715	594	723	636	687	844	731	-13.4%	9.2%
Finland	170	294	2,327	3,068	4,795	5,839	6,025	7,938	8,133	2.5%	35.2%
France	962	9,945	21,421	21,381	24,609	28,599	34,787	39,792	37,015	-7.0%	12.7%
Germany	27,774	38,547	80,624	79,924	105,693	109,951	125,894	132,102	113,848	-13.8%	10.3%
Greece	1,266	2,714	4,621	5,146	5,537	6,300	7,266	9,310	10,483	12.6%	13.1%
Hungary	10	534	693	684	758	607	729	655	661	0.9%	2.0%
Iceland			11	9	8	4	7	7	6	-14.3%	
Ireland	1,112	2,815	6,573	6,147	7,444	8,640	10,019	11,549	9,668	-16.3%	11.9%
Italy	2,344	9,126	14,844	17,689	17,742	17,716	20,202	18,762	20,789	10.8%	7.8%
Kosovo		1				30	91	90	90	0.0%	50.5%
Latvia	47	49	147	128	150	122	154	177	141	-20.3%	10.1%
Lithuania	2	224	810	1,136	1,364	1,144	1,499	1,552	1,362	-12.2%	17.8%
Luxembourg	52	55	102	101	235	255	281	351	331	-5.7%	17.7%
Moldova			2	3	7	23	43	51	78	52.9%	
Montenegro					97	143	295	315		6.8%	
Netherlands	2,067	3,994	7,550	8,170	10,569	10,549	11,508	15,339	17,980	17.2%	14.7%
North Macedonia			121	109	110	97	102	117	103	-12.0%	
Norway	499	879	2,515	2,116	2,854	3,876	5,536	9,911	11,769	18.7%	26.6%
Poland	135	1,664	10,858	12,588	14,909	12,799	15,107	15,800	16,247	2.8%	23.0%
Portugal	1,773	9,182	11,607	12,474	12,248	12,617	13,667	12,299	13,273	7.9%	3.4%
Romania		306	7,063	6,590	7,407	6,322	6,773	6,945	6,576	-5.3%	32.2%
Serbia				26	48	150	898	976	1,085	11.2%	
Slovakia	6	6	6	6	6	6	6	4	4	0.0%	-3.6%
Slovenia			6	6	6	6	6	6	6	0.0%	
Spain	21,176	44,271	49,325	48,905	49,127	50,896	55,647	56,444	62,229	10.2%	3.1%
Sweden	935	3,487	16,322	15,479	17,609	16,623	19,847	27,526	27,108	-1.5%	20.5%
Switzerland	8	37	110	109	133	122	146	145	146	0.7%	13.3%
Türkiye	59	2,916	11,652	15,517	17,904	19,949	21,731	24,828	31,137	25.4%	24.0%
Ukraine	38	51	1,084	954	983	1,188	2,020	3,271	2,833	-13.4%	44.1%
United Kingdom	2,904	10,286	40,275	37,159	49,641	56,908	63,795	75,369	64,460	-14.5%	18.2%

^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Wind Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Russia and Central Asia	7	12	288	457	592	862	1,231	2,459		99.8%	70.3%
Russia	7	4	148	148	140	232	331	1,241	3,893	213.7%	86.9%
Armenia		7	3	2	2	2	3	2	1	-50.0%	-16.2%
Azerbaijan		1	5	23	22	83	105	96	91	-5.2%	50.7%
Georgia				9	88	84	85	91	83	-8.8%	
Kazakhstan			132	275	340	461	707	1,029		45.5%	
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Middle East	85	174	362	660	967	1,452	1,667	2,188		31.3%	28.8%
Iran	71	163	221	250	307	518	560	566		1.1%	13.3%
Israel	11	8	7	7	180	183	190	204	194	-4.9%	33.6%
Jordan	3	3	121	391	449	707	875	1,379		57.6%	84.6%
Kuwait			6	6	25	38	36	33		-8.3%	
Lebanon			6	6	6	6	6	6		0.0%	
United Arab Emirates			1								
	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Africa	819	2,372	8,563	10,462	11,558	15,280	18,525	17,633		-4.8%	22.2%
Algeria			19	29	8	11	10	8		-20.0%	
Egypt	552	1,498	2,058	2,200	2,334	3,018	4,233	4,233		0.0%	10.9%
Ethiopia			759	782	533	847	609	608		-0.2%	
Kenya		17	60	56	61	375	1,563	1,331		-14.8%	54.7%
Morocco	206	659	2,519	3,000	3,035	3,863	4,723	4,592	5,107	11.2%	20.5%
Namibia	1	1	1	1	5	18	18	18		0.0%	33.5%
Senegal							23	217		843.5%	
South Africa	12	34	2,500	3,700	4,924	6,467	6,624	5,937	8,356	40.7%	64.9%
Tunisia	42	139	448	474	449	453	500	465		-7.0%	12.8%
Others Africa	6	24	199	220	209	228	222	224		0.9%	25.0%

(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

(**) When 2021 data is missing, the figure refers to the latest available years.

Wind Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Asia - Pacific	11,748	77,064	245,699	312,612	382,522	467,893	518,850	580,622		11.9%	22.4%
Australia	885	5,052	11,467	12,199	12,597	15,164	17,712	20,396	24,535	20.3%	15.4%
Bangladesh			6	6	6	6	6	6		0.0%	
China	2,028	44,622	185,766	237,070	297,230	365,971	406,032	466,474	617,395	32.4%	27.0%
Hong Kong		1	1	1	1	1	1	1		0.0%	0.0%
India	6,211	19,657	35,075	48,281	54,994	65,710	70,949	67,418	75,744	12.3%	13.0%
Indonesia		4	4	6	6	190	484	475	437	-8.0%	53.2%
Japan	1,751	4,016	5,580	6,166	6,490	7,481	7,617	8,970	9,874	10.1%	8.5%
Mongolia		1	154	154	136	301	476	476		0.0%	85.3%
Nepal			6	6	6	6	7	7		0.0%	
New Zealand	614	1,637	2,364	2,341	2,091	2,068	2,255	2,305	2,642	14.6%	4.4%
Pakistan			786	1,326	2,101	3,161	2,882	2,882		0.0%	
Philippines	17	62	748	975	1,094	1,153	1,042	1,026		-1.5%	32.4%
South Korea	130	817	1,342	1,683	2,169	2,465	2,681	3,151	3,167	0.5%	13.1%
Sri Lanka	2	53	343	345	365	325	348	342		-1.7%	20.5%
Taiwan	91	1,026	1,526	1,458	1,722	1,707	1,892	2,421		28.0%	9.0%
Thailand			329	345	1,110	1,641	3,670	3,220	4,301	33.6%	
Vietnam		50	124	201	350	487	724	982		35.6%	34.7%
Others Asia - Pacific	18	66	78	57	55	55	71	71		0.0%	0.7%

^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Wind Power Generation

Countries^(*)

(GWh)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)**	CAGR (2021-2010)**
Americas	20,044	108,570	260,090	315,947	355,051	387,548	426,320	482,224		13.1%	16.1%
Argentina	72	25	593	548	612	1,413	4,997	9,412	12,940	37.5%	76.5%
Bolivia			12	35	60	59	70	64	126	96.9%	
Brazil	93	2,177	21,626	33,488	42,373	48,475	55,986	57,051	72,286	26.7%	37.5%
Canada	1,567	8,724	26,964	30,930	31,511	33,142	32,748	35,638	35,558	-0.2%	13.6%
Chile	7	332	2,115	2,449	3,521	3,588	4,897	5,602	7,222	28.9%	32.3%
Colombia	49	39	68	51	3	43	63	10	60	500.0%	4.0%
Costa Rica	204	359	1,080	1,147	1,288	1,799	1,796	1,459	1,573	7.8%	14.4%
Cuba	2	12	21	21	23	19	19	19		0.0%	4.7%
Curacao	71	63	124	130	169	234	208	191		-8.2%	11.7%
Dominican Republic			290	323	390	497	789	1,139		44.4%	
Ecuador		3	99	84	73	80	86	77	62	-19.5%	31.7%
Guatemala			107	215	218	320	331	313	324	3.5%	
Honduras			665	583	578	929	818	707		-13.6%	
Jamaica	50	53	125	207	289	302	272	280		2.9%	18.1%
Mexico	19	1,239	8,745	10,378	10,442	12,877	16,880	19,702	20,896	6.1%	29.3%
Nicaragua		163	865	729	635	801	730	550		-24.7%	12.9%
Panama			419	625	491	588	725	584		-19.4%	
Peru	1	1	595	1,063	1,073	1,502	1,654	1,813	1,811	-0.1%	97.8%
United States	17,881	95,148	192,992	229,471	257,249	275,834	298,200	341,818	384,237	12.4%	13.5%
Uruguay		70	2,065	2,994	3,774	4,732	4,752	5,476	4,989	-8.9%	47.4%
Venezuela			88	88	88	88	88	88		0.0%	
Others Americas	28	162	432	388	191	226	211	231		9.5%	3.6%

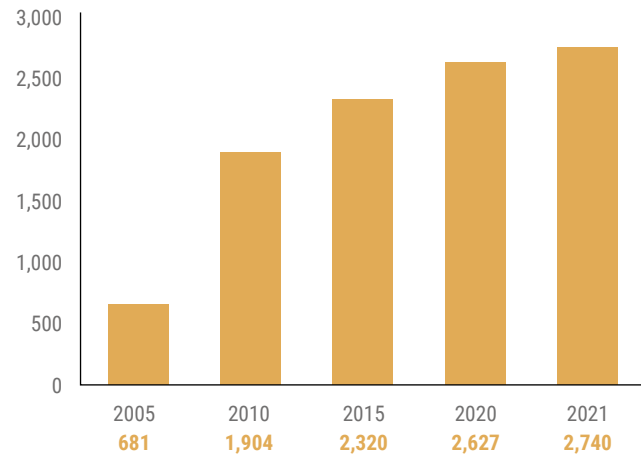
^(*) Data source: IEA (2022) *Extended Balances*. All rights reserved.

^(**) When 2021 data is missing, the figure refers to the latest available years.

Biofuels Production

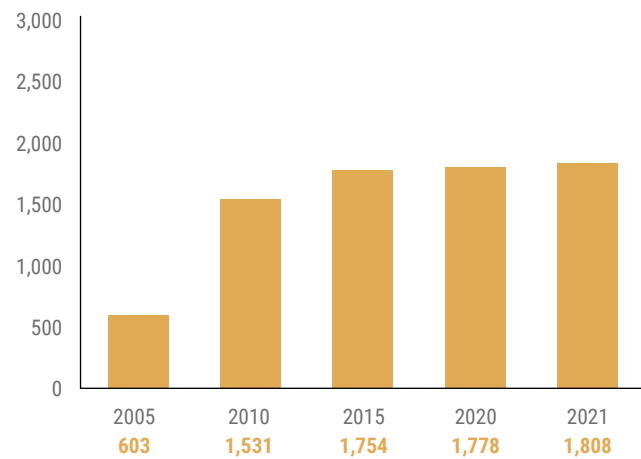
Total Biofuels (*)

(thousand barrels/day)



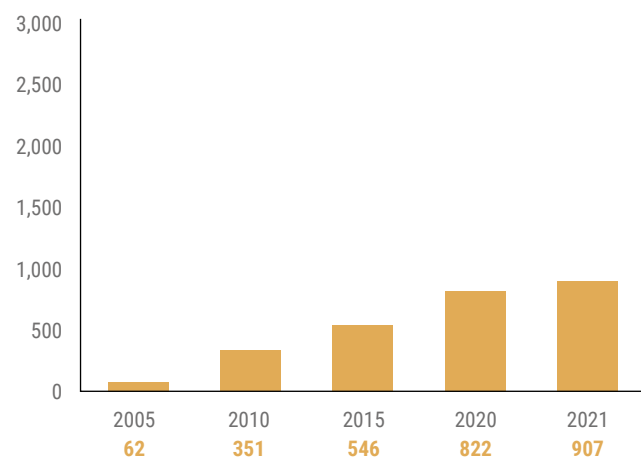
Biogasoline (*)

(thousand barrels/day)



Biodiesel (*)

(thousand barrels/day)



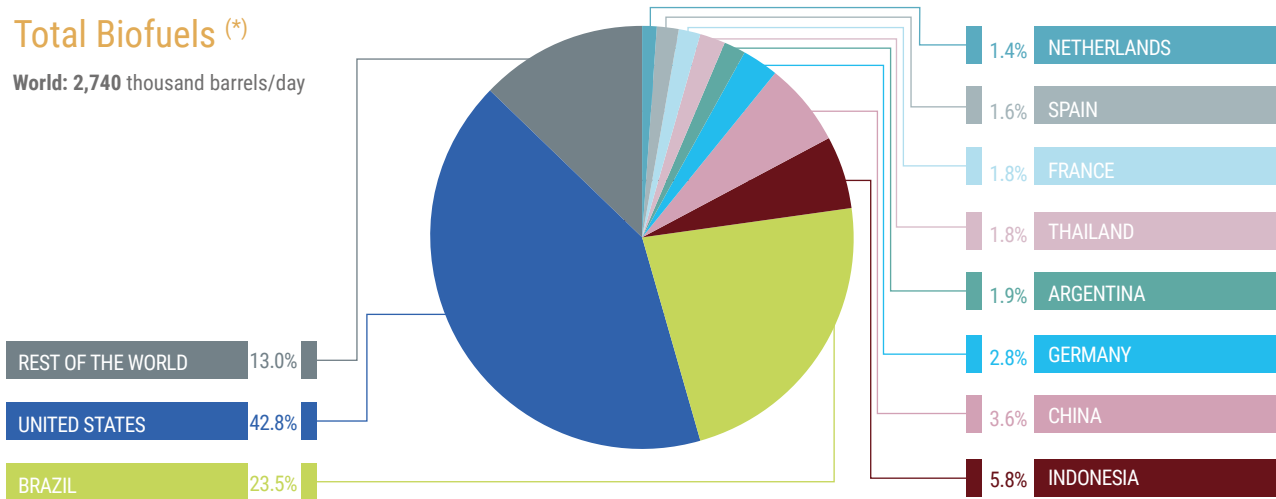
(*) Data source: IEA (2022) *Extended Balances* and EIA DOE. All rights reserved.

Total Biofuels include biogasoline (also ethanol used pure in Brazil "Hydrous"), biodiesel and other liquid biofuels.

Biofuels Production

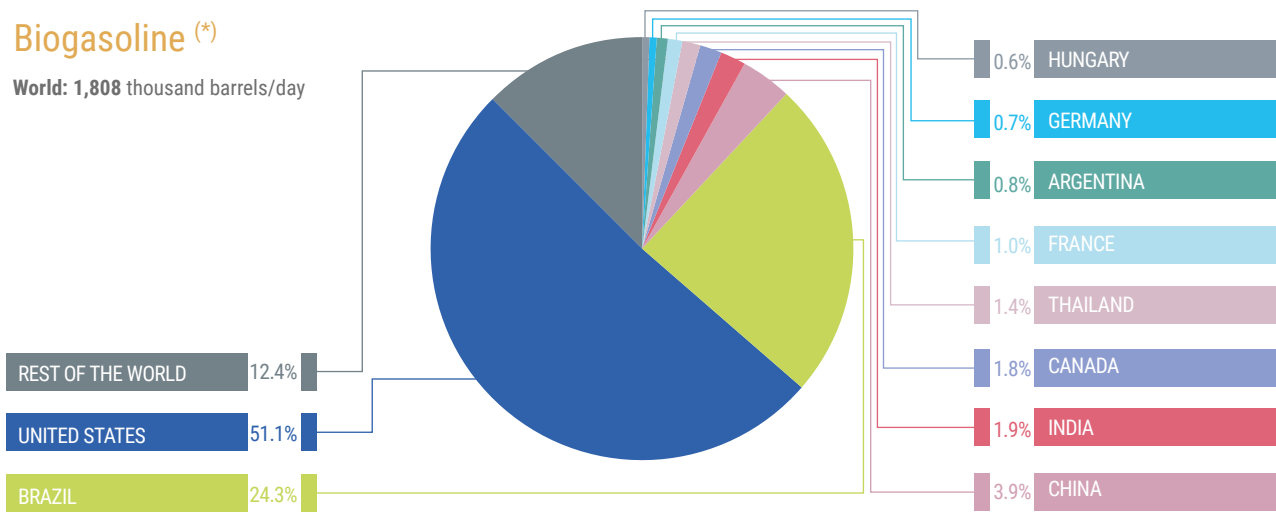
Total Biofuels (*)

World: 2,740 thousand barrels/day



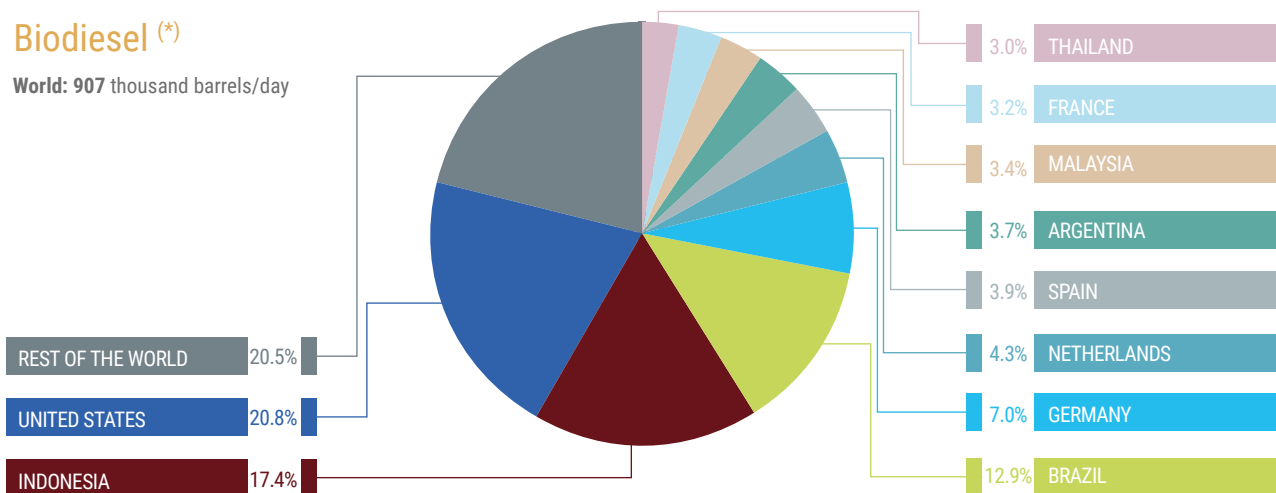
Biogasoline (*)

World: 1,808 thousand barrels/day



Biodiesel (*)

World: 907 thousand barrels/day



(*) Data source: IEA (2022) *Extended Balances* and EIA DOE. All rights reserved.
 Total Biofuels include biogasoline (also ethanol used pure in Brazil "Hydrous"), biodiesel and other liquid biofuels.

Critical Minerals

▶ COBALT

RESERVES

Countries
The World Top 10
World Cobalt Reserves

PRODUCTION

Countries
The World Top 10
World Cobalt Production

▶ COPPER

RESERVES

Countries
The World Top 10
World Copper Reserves

PRODUCTION

Countries
The World Top 10
World Copper Production

▶ LITHIUM

RESERVES

Countries
The World Top 8
World Lithium Reserves

PRODUCTION

Countries
The World Top 7
World Lithium Production

▶ NICKEL

RESERVES

Countries
The World Top 8
World Nickel Reserves

PRODUCTION

Countries
The World Top 9
World Nickel Production

▶ RARE EARTHS

RESERVES

Countries
The World Top 10
World Rare Earths Reserves

PRODUCTION

Countries
The World Top 10
World Rare Earths Production

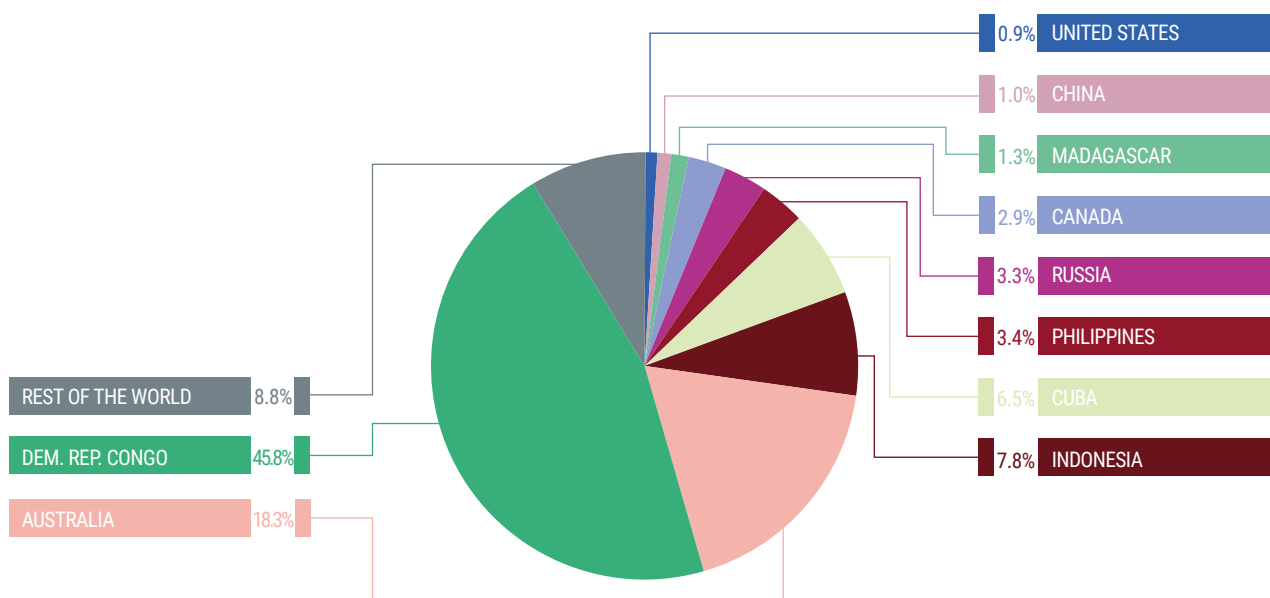
Cobalt - Reserves

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	1,300,000	1,400,000	1,100,000	1,000,000	1,200,000	1,200,000	1,200,000	1,400,000	1,400,000	0.0%	0.0%
Brazil	35,000	89,000	78,000								
Canada	130,000	150,000	240,000	270,000	250,000	250,000	230,000	220,000	220,000	0.0%	3.5%
China		80,000	80,000	80,000		80,000	80,000	80,000	80,000	0.0%	0.0%
Cuba	1,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	0.0%	0.0%
Dem. Rep. Congo	3,400,000	3,400,000	3,400,000	3,400,000	3,500,000	3,400,000	3,600,000	3,600,000	3,500,000	-2.8%	0.3%
Indonesia									600,000		
Madagascar			130,000	130,000	150,000	140,000	120,000	100,000	100,000	0.0%	
Morocco	20,000	20,000				17,000	18,000	14,000	13,000	-7.1%	-3.8%
New Caledonia	230,000	370,000	200,000	64,000							
Papua New Guinea					51,000	56,000	56,000	51,000	47,000	-7.8%	
Philippines			250,000	290,000	280,000	280,000	260,000	260,000	260,000	0.0%	
Russia	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	0.0%	0.0%
South Africa			31,000	29,000	29,000	24,000	50,000	40,000			
United States		33,000	23,000	21,000	23,000	38,000	55,000	53,000	69,000	30.2%	6.9%
Zambia	270,000	270,000	270,000	270,000	270,000						
Others	200,000	740,000	690,000	690,000	560,000	640,000	570,000	560,000	610,000	8.9%	-1.7%
World (rounded)	7,000,000	7,300,000	7,100,000	7,000,000	7,100,000	6,900,000	7,000,000	7,100,000	7,600,000	7.0%	0.4%

The World Top 10 (2021)

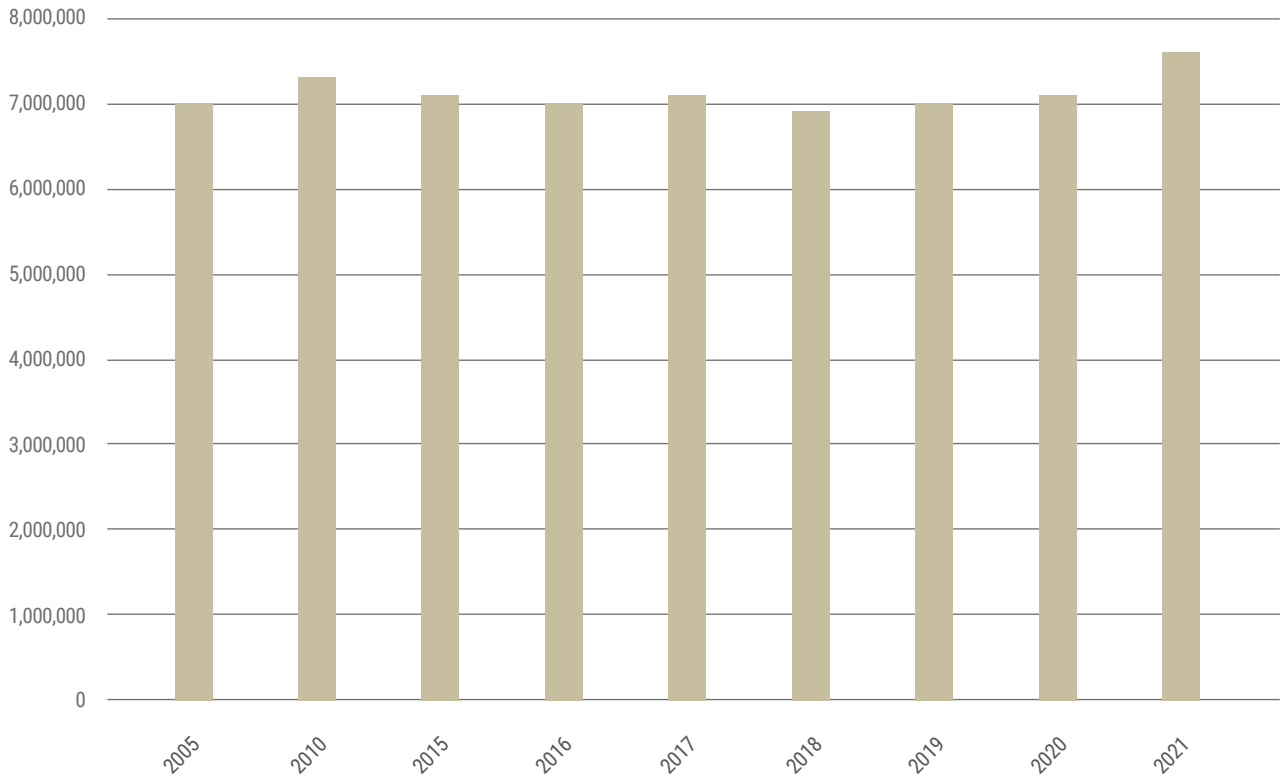


^(*) Data source: U.S. Geological Survey.

Cobalt - Reserves

World Cobalt Reserves

(tons)



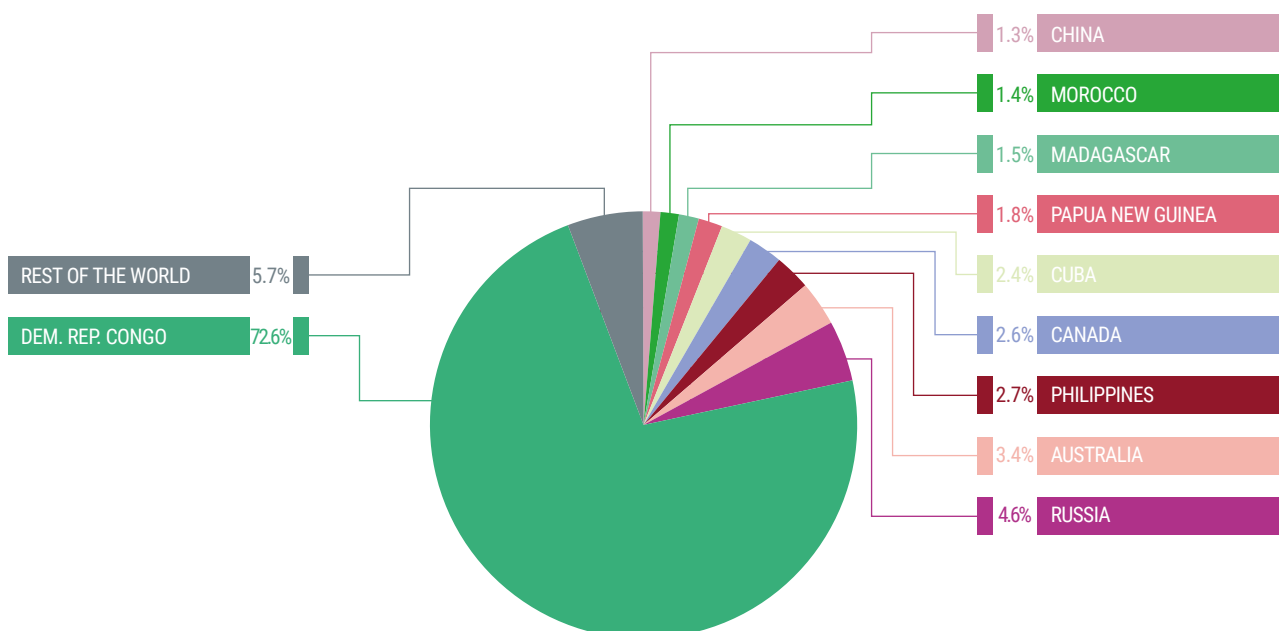
Cobalt - Production

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	6,000	3,850	6,000	5,500	5,030	4,880	5,740	5,630	5,600	-0.5%	3.5%
Brazil	1,200	1,600									
Canada	5,500	4,600	6,900	4,250	3,870	3,520	3,340	3,690	4,300	16.5%	-0.6%
China	1,300	6,500	7,700		3,100	2,000	2,500	2,200	2,200	0.0%	-9.4%
Cuba	3,600	3,600	4,300	4,200	5,000	3,500	3,800	3,800	3,900	2.6%	0.7%
Dem. Rep. Congo	22,000	47,400	63,000	64,000	73,000	104,000	100,000	98,000	120,000	22.4%	8.8%
Indonesia								1,100	2,100	90.9%	
Madagascar			3,700	3,800	3,500	3,300	3,400	850	2,500	194.1%	
Morocco	1,600	2,200			2,200	2,100	2,300	2,300	2,300	0.0%	0.4%
New Caledonia	1,200	1,000	3,680	3,390		2,100					
Papua New Guinea				2,190	3,310	3,280	2,910	2,940	3,000	2.0%	
Philippines			4,300	4,100	4,600	4,600	5,100	4,500	4,500	0.0%	
Russia	5,000	6,200	6,200	5,500	5,900	6,100	6,300	9,000	7,600	-15.6%	1.9%
South Africa			3,000	2,300	2,300	2,300	2,100				
United States			760	690	640	490	500	600	700	16.7%	
Zambia	9,300	5,700	4,600	3,000							
Others	1,200	6,800	11,600	7,600	7,650	5,540	6,320	7,640	6,600	-13.6%	-0.3%
World (rounded)	57,900	89,500	126,000	111,000	120,000	148,000	144,000	142,000	170,000	19.7%	6.0%

The World Top 10 (2021)

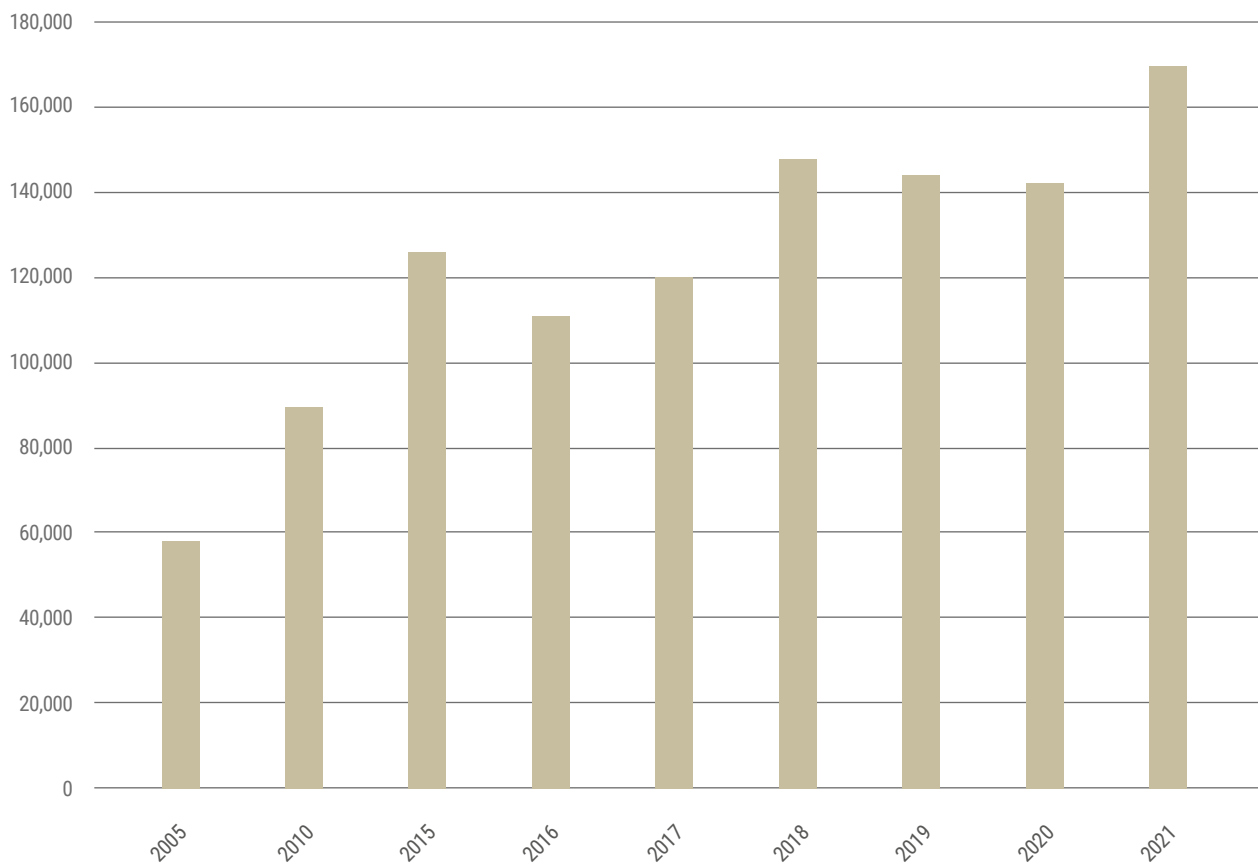


^(*) Data source: U.S. Geological Survey.

Cobalt - Production

World Cobalt Production

(tons)



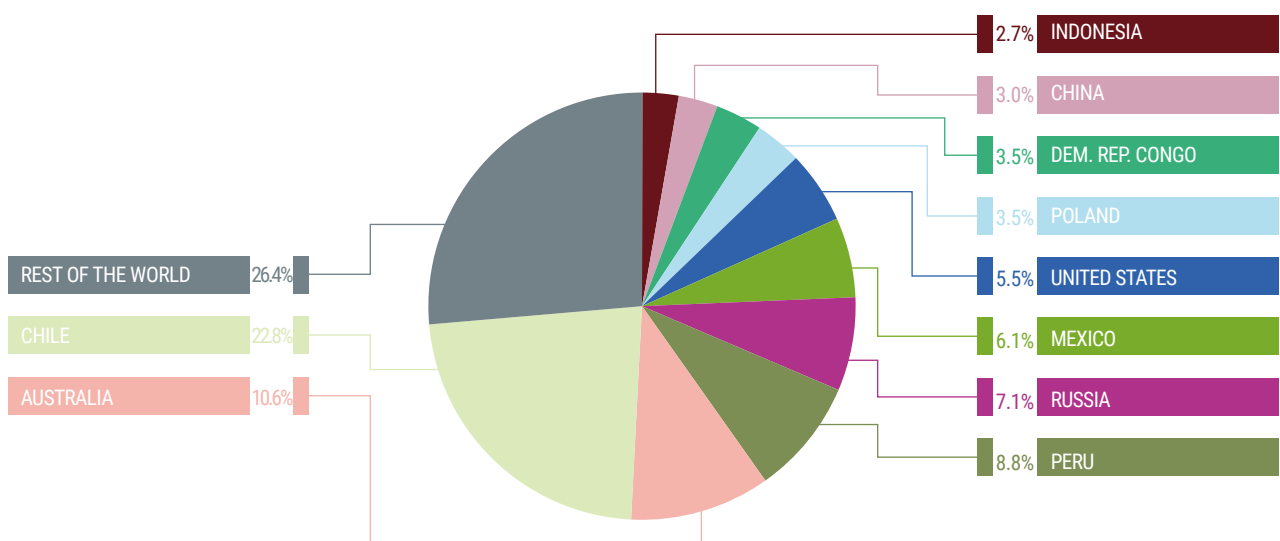
Copper - Reserves

Countries^(*)

(thousand tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	24,000	80,000	88,000	89,000	88,000	88,000	87,000	88,000	93,000	5.7%	1.4%
Canada	7,000	8,000	11,000	11,000	11,000			9,000	9,800	8.9%	1.9%
Chile	140,000	150,000	210,000	210,000	170,000	170,000	200,000	200,000	200,000	0.0%	2.6%
China	26,000	30,000	30,000	28,000	27,000	26,000	26,000	26,000	26,000	0.0%	-1.3%
Dem. Rep. Congo			20,000	20,000	20,000	20,000	19,000	19,000	31,000	63.2%	
Germany								2,000			
Indonesia	35,000	30,000			26,000	51,000	28,000		24,000		-2.0%
Kazakhstan	14,000	18,000					20,000	20,000	20,000	0.0%	1.0%
Mexico	27,000	38,000	46,000	46,000	46,000	50,000	53,000	53,000	53,000	0.0%	3.1%
Peru	30,000	90,000	82,000	81,000	81,000	83,000	87,000	92,000	77,000	-16.3%	-1.4%
Poland	30,000	26,000						32,000	31,000	-3.1%	1.6%
Russia	20,000	30,000	30,000	30,000		61,000	61,000	61,000	62,000	1.6%	6.8%
United States	35,000	35,000	33,000	35,000	45,000	48,000	51,000	48,000	48,000	0.0%	2.9%
Zambia	19,000	20,000	20,000	20,000	20,000	19,000	19,000	21,000	21,000	0.0%	0.4%
Others	60,000	80,000	150,000	150,000	260,000	210,000	220,000	200,000	180,000	-10.0%	7.7%
World (rounded)	470,000	630,000	720,000	720,000	790,000	830,000	870,000	870,000	880,000	1.1%	3.1%

The World Top 10 (2021)

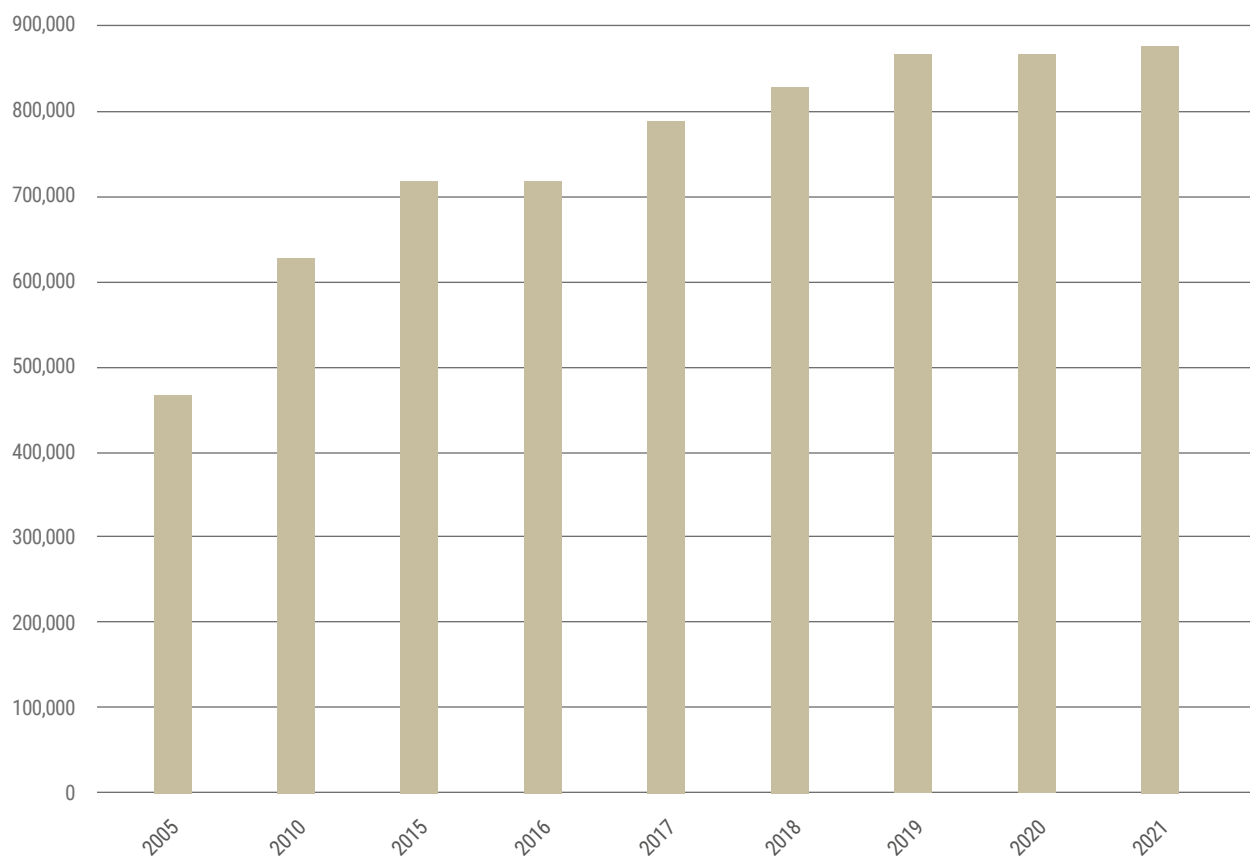


^(*) Data source: U.S. Geological Survey.

Copper - Reserves

World Copper Reserves

(thousand tons)



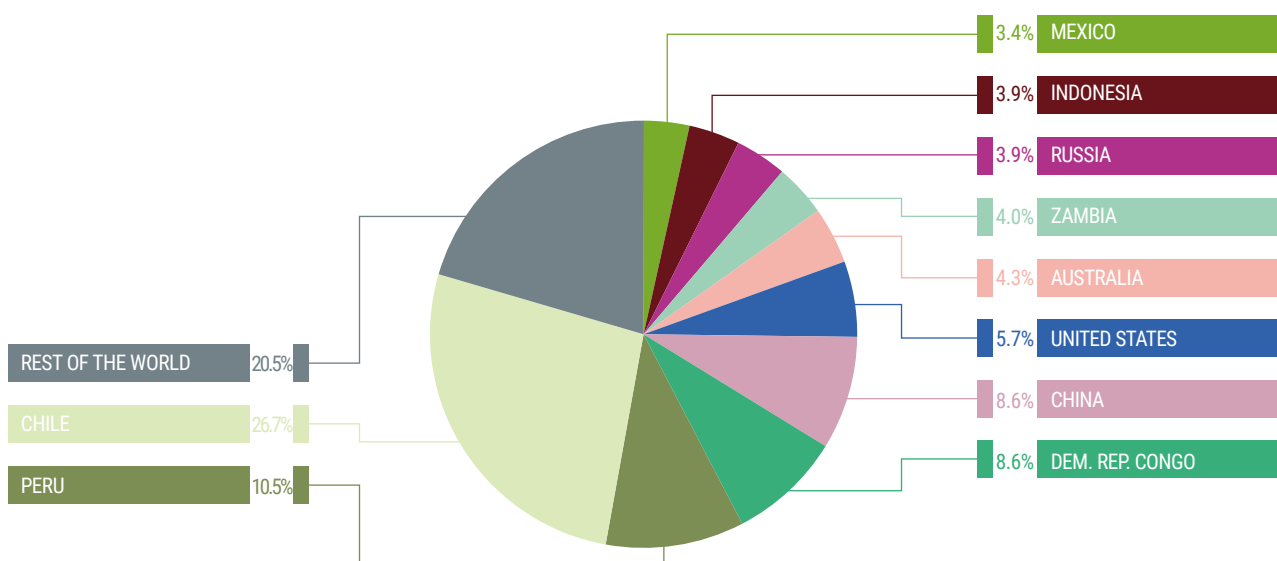
Copper - Production

Countries^(*)

(thousand tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	927	870	971	948	860	920	934	885	900	1.7%	0.3%
Canada	567	525	697	708			573	585	590	0.9%	1.1%
Chile	5,320	5,420	5,760	5,550	5,500	5,830	5,790	5,730	5,600	-2.3%	0.3%
China	755	1,190	1,710	1,900	1,710	1,590	1,680	1,720	1,800	4.7%	3.8%
Dem. Rep. Congo		343	1,020	846	1,090	1,230	1,290	1,600	1,800	12.5%	16.3%
Indonesia	1,070	872		727	622	651		505	810	60.4%	-0.7%
Kazakhstan	402	380				603	562	552	520	-5.8%	2.9%
Mexico	429	260	594	752	742	751	715	733	720	-1.8%	9.7%
Peru	1,010	1,250	1,700	2,350	2,450	2,400	2,460	2,150	2,200	2.3%	5.3%
Poland	523	425					399	393	390	-0.8%	-0.8%
Russia	700	703	732		705	751	801	810	820	1.2%	1.4%
United States	1,140	1,110	1,380	1,430	1,260	1,220	1,260	1,200	1,200	0.0%	0.7%
Zambia	436	690	712	763	794	854	797	853	820	-3.9%	1.6%
Others	1,720	1,900	3,800	4,160	4,250	3,540	3,100	2,840	2,800	-1.4%	3.6%
World (rounded)	15,000	15,900	19,100	20,100	20,000	20,400	20,400	20,600	21,000	1.9%	2.6%

The World Top 10 (2021)

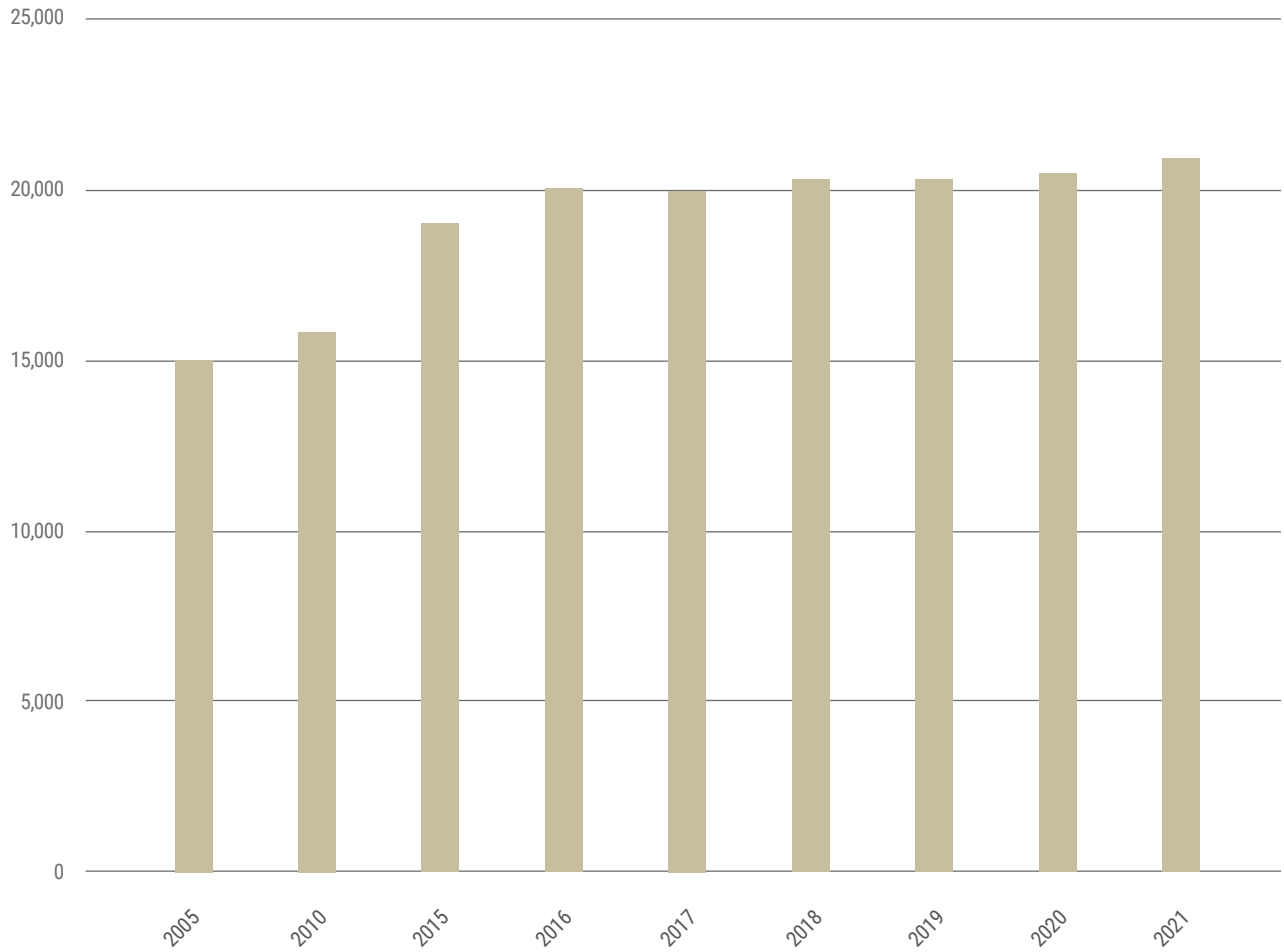


^(*) Data source: U.S. Geological Survey.

Copper - Production

World Copper Production

(thousand tons)



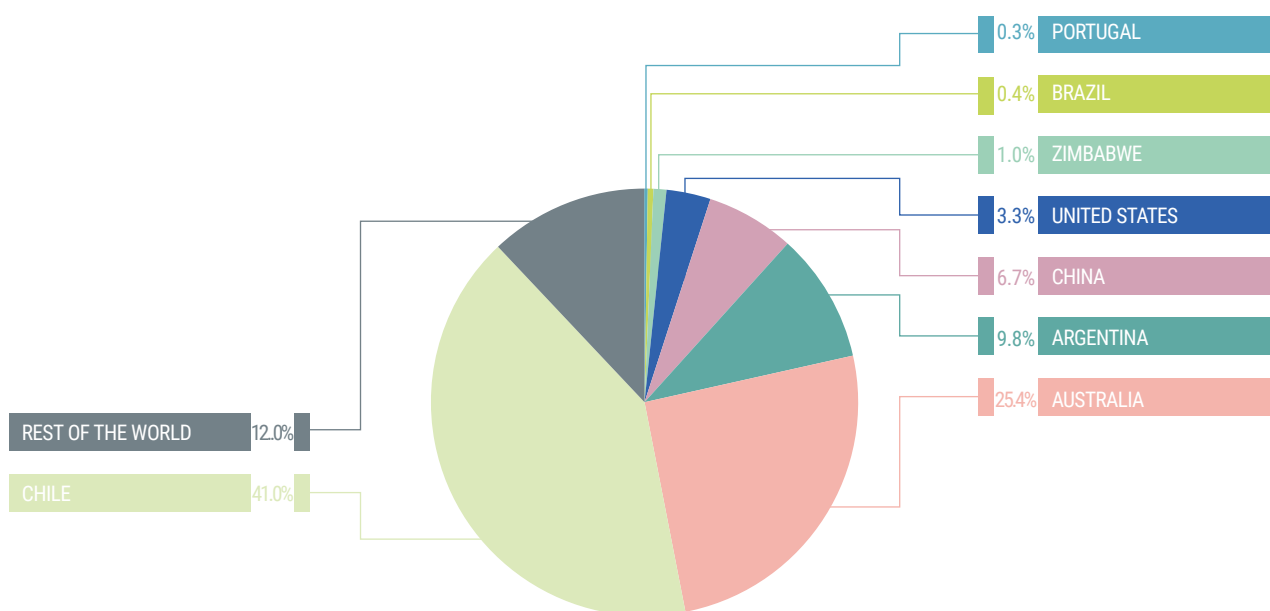
Lithium - Reserves

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Argentina		850,000	2,000,000	2,000,000	2,000,000	2,000,000	1,700,000	1,900,000	2,200,000	15.8%	9.0%
Australia	160,000	580,000	1,500,000	1,600,000	2,700,000	2,700,000	2,800,000	4,700,000	5,700,000	21.3%	23.1%
Brazil	190,000	64,000	48,000	48,000	48,000	54,000	95,000	95,000	95,000	0.0%	3.7%
Canada	180,000						370,000	530,000		-100.0%	
Chile	3,000,000	7,500,000	7,500,000	7,500,000	7,500,000	8,000,000	8,600,000	9,200,000	9,200,000	0.0%	1.9%
China	540,000	3,500,000	3,200,000	3,200,000	3,200,000	1,000,000	1,000,000	1,500,000	1,500,000	0.0%	-7.4%
Portugal		10,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	0.0%	17.7%
United States	38,000	38,000	38,000	38,000	35,000	35,000	630,000	750,000	750,000	0.0%	31.1%
Zimbabwe	23,000	23,000	23,000	23,000	23,000	70,000	230,000	220,000	220,000	0.0%	22.8%
Others							1,100,000	2,100,000	2,700,000	28.6%	
World (rounded)	4,100,000	13,000,000	14,000,000	14,000,000	16,000,000	14,000,000	17,000,000	21,000,000	22,000,000	4.8%	4.9%

The World Top 8 (2021)

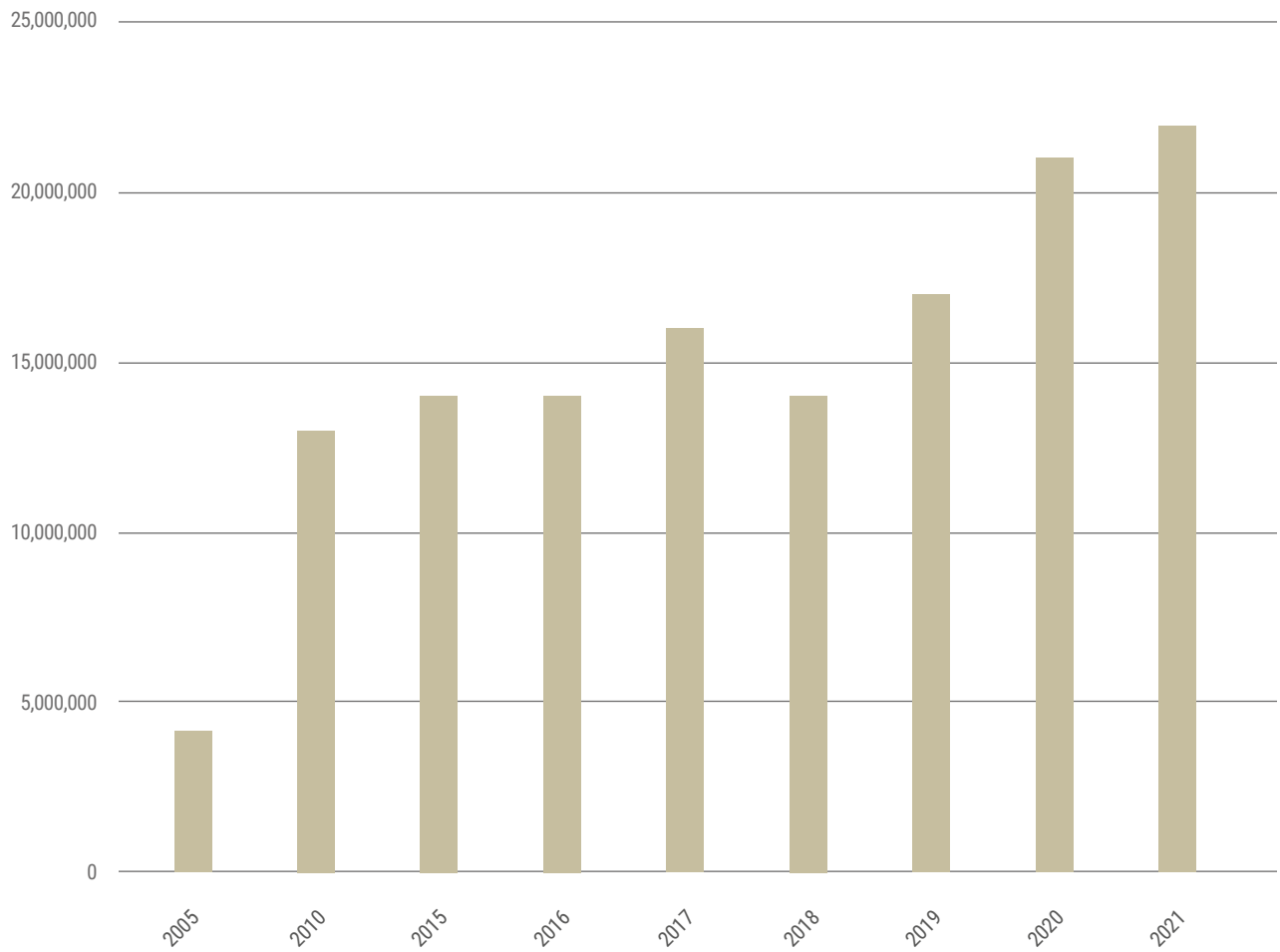


^(*) Data source: U.S. Geological Survey.

Lithium - Reserves

World Lithium Reserves

(tons)



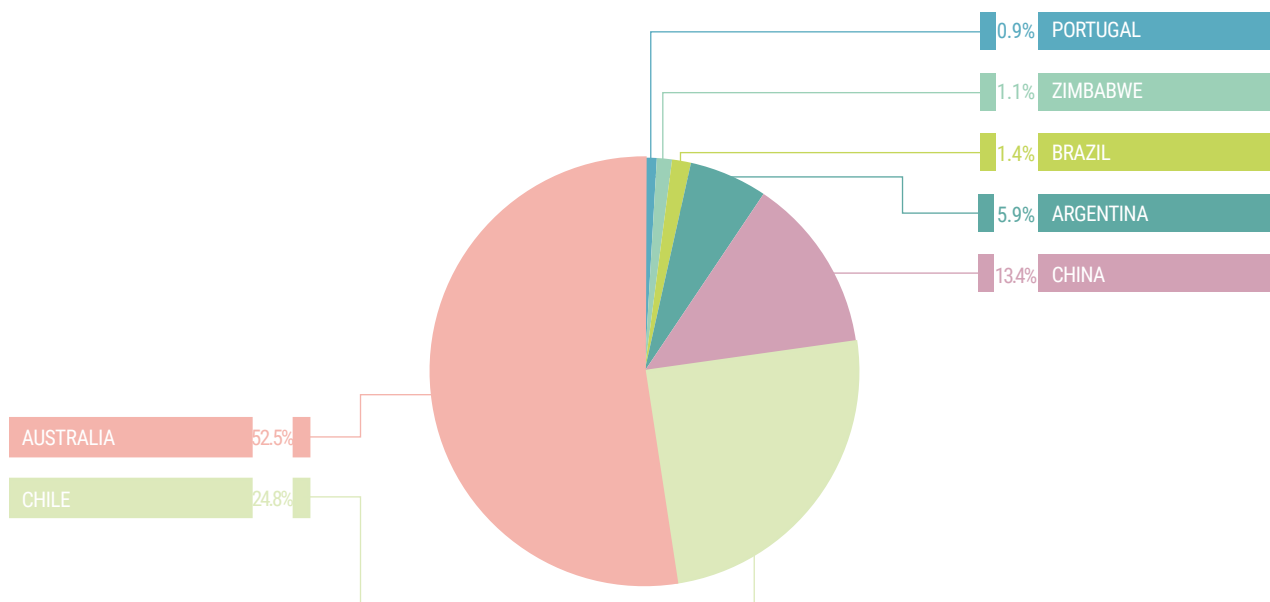
Lithium - Production

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Argentina	1,980	2,950	3,600	5,800	5,700	6,400	6,300	5,900	6,200	5.1%	7.0%
Australia	3,770	9,260	14,100	14,000	40,000	58,800	45,000	39,700	55,000	38.5%	17.6%
Brazil	242	160	200	200	200	300	2,400	1,420	1,500	5.6%	22.6%
Canada	707					2,400	200				
Chile	8,270	10,510	10,500	14,300	14,200	17,000	19,300	21,500	26,000	20.9%	8.6%
China	2,820	3,950	2,000	2,300	6,800	7,100	10,800	13,300	14,000	5.3%	12.2%
Namibia						500					
Portugal	320	800	200	400	800	800	900	348	900	158.6%	1.1%
Russia	2,200										
Zimbabwe	260	470	900	1,000	800	1,600	1,200	417	1,200	187.8%	8.9%
World (rounded)	20,600	28,100	31,500	38,000	69,000	95,000	86,000	82,500	100,000	21.2%	12.2%

The World Top 7 (2021)

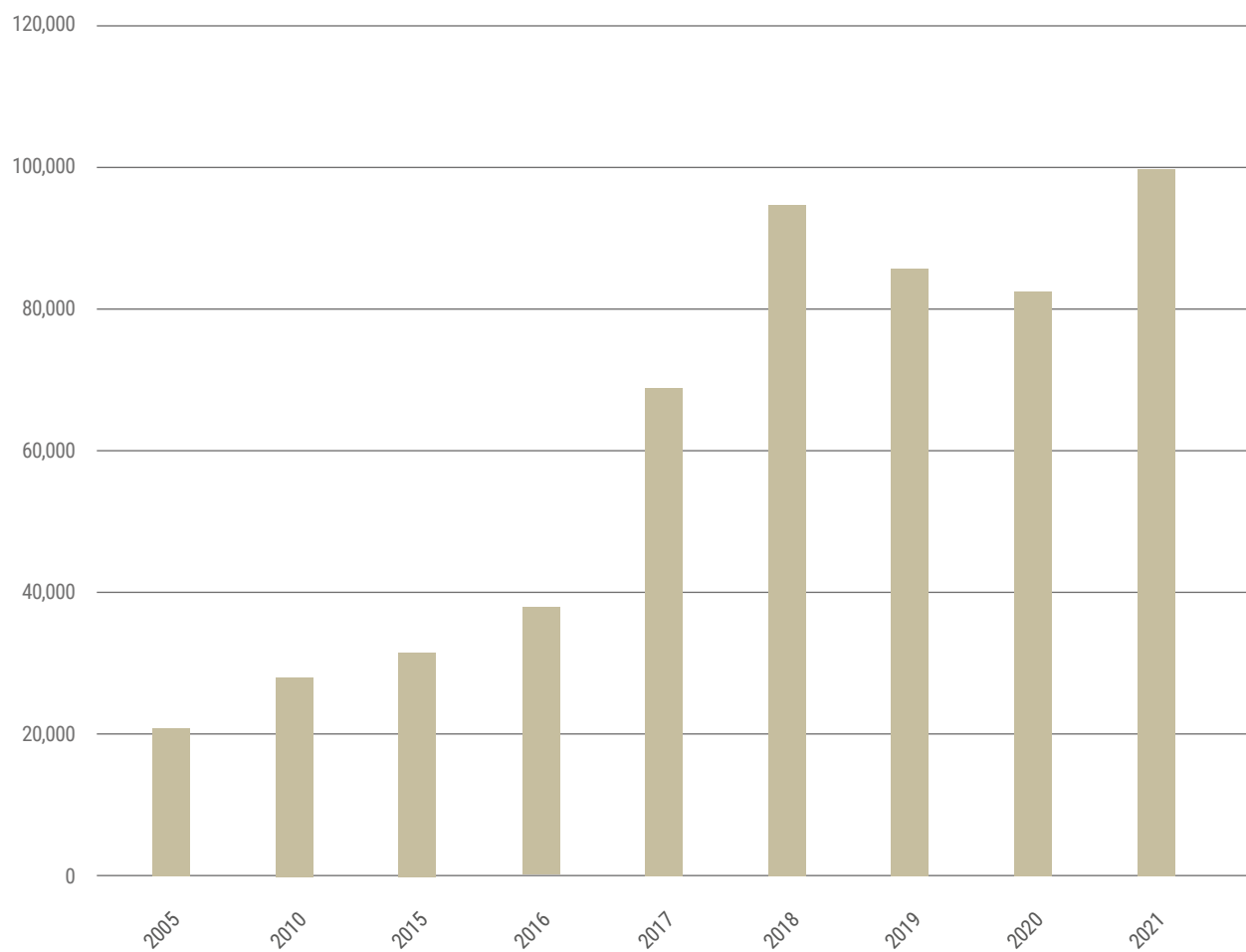


^(*) Data source: U.S. Geological Survey.

Lithium - Production

World Lithium Production

(tons)



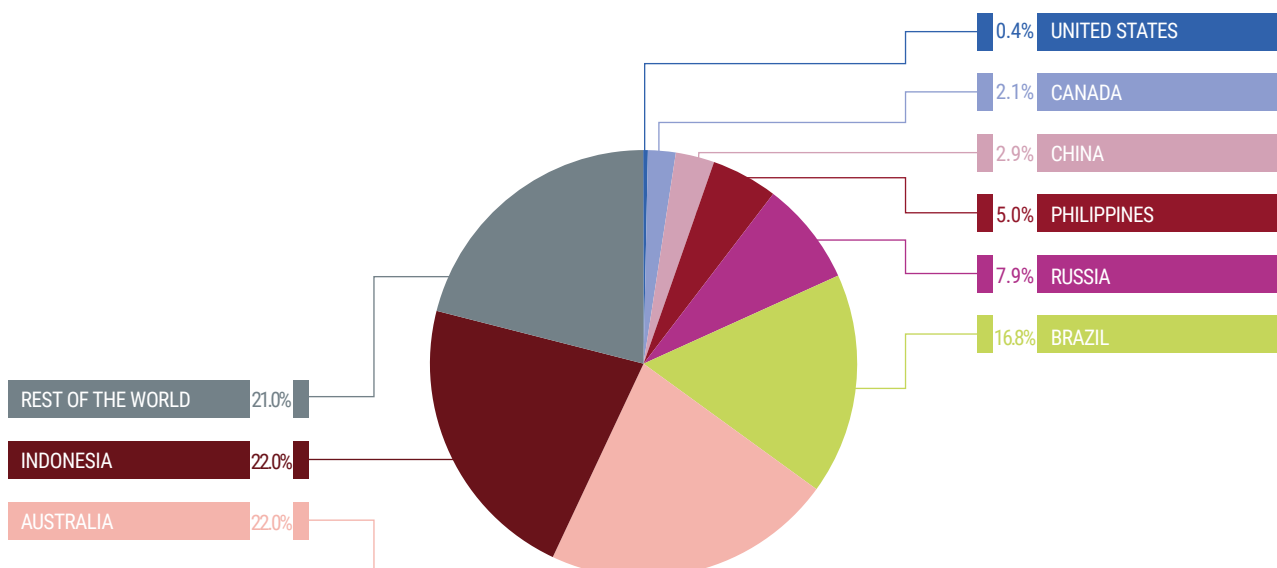
Nickel - Reserves

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	22,000,000	24,000,000	19,000,000	19,000,000	19,000,000	19,000,000	20,000,000	20,000,000	21,000,000	5.0%	-1.2%
Botswana	490,000	490,000									
Brazil	4,500,000	8,700,000	10,000,000	10,000,000	12,000,000	11,000,000	11,000,000	16,000,000	16,000,000	0.0%	5.7%
Canada	4,900,000	3,800,000	2,900,000	2,900,000	2,700,000	2,700,000	2,600,000	2,800,000	2,000,000	-28.6%	-5.7%
China	1,100,000	3,000,000	3,000,000	2,500,000	2,900,000	2,800,000	2,800,000	2,800,000	2,800,000	0.0%	-0.6%
Colombia	830,000	1,600,000	1,100,000	1,100,000	1,100,000	440,000					
Cuba	5,600,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000	5,500,000			
Dominican Republic	720,000	960,000									
Greece	490,000										
Guatemala			1,800,000	1,800,000	1,800,000	1,800,000					
Indonesia	3,200,000	3,900,000	4,500,000	4,500,000	4,500,000	21,000,000	21,000,000	21,000,000	21,000,000		16.5%
Madagascar		1,300,000	1,600,000	1,600,000	1,600,000	1,600,000					
New Caledonia	4,400,000	7,100,000	8,400,000	6,700,000							
Philippines	940,000		3,100,000	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000	0.0%	
Russia	6,600,000	6,000,000	7,900,000	7,600,000	7,600,000	7,600,000	6,900,000	6,900,000	7,500,000	8.7%	2.0%
South Africa	3,700,000	3,700,000	3,700,000	3,700,000	3,700,000	3,700,000					
United States			160,000	160,000	130,000	110,000	110,000	100,000	340,000	240.0%	
Venezuela	560,000	490,000									
Zimbabwe	15,000										
Others	2,100,000	4,500,000	6,500,000	6,500,000	6,500,000	6,500,000	14,000,000	14,000,000	20,000,000	42.9%	14.5%
World (rounded)	62,000,000	76,000,000	79,000,000	78,000,000	74,000,000	89,000,000	89,000,000	94,000,000	95,000,000	1.1%	2.0%

The World Top 8 (2021)

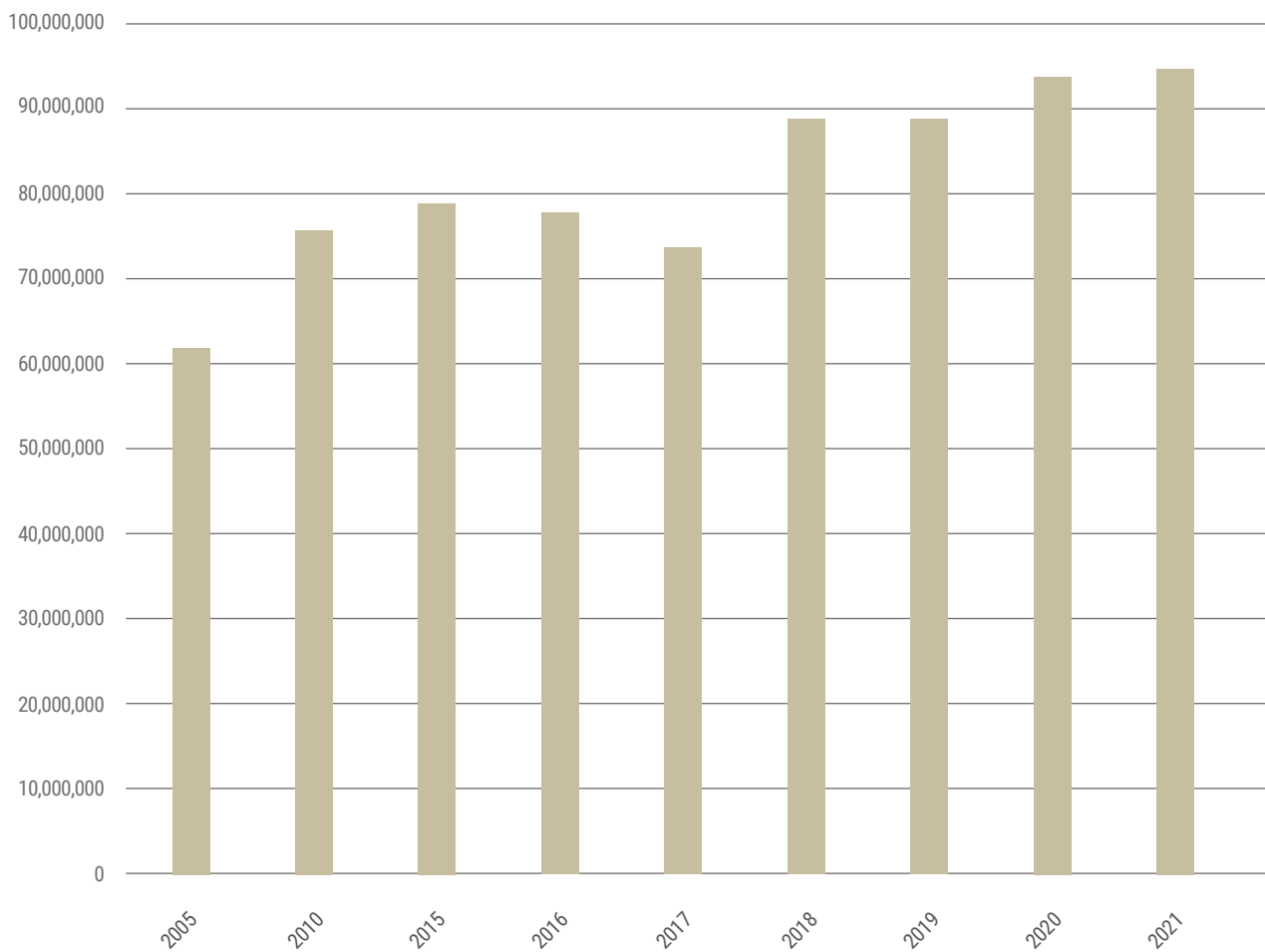


^(*) Data source: U.S. Geological Survey.

Nickel - Reserves

World Nickel Reserves

(tons)



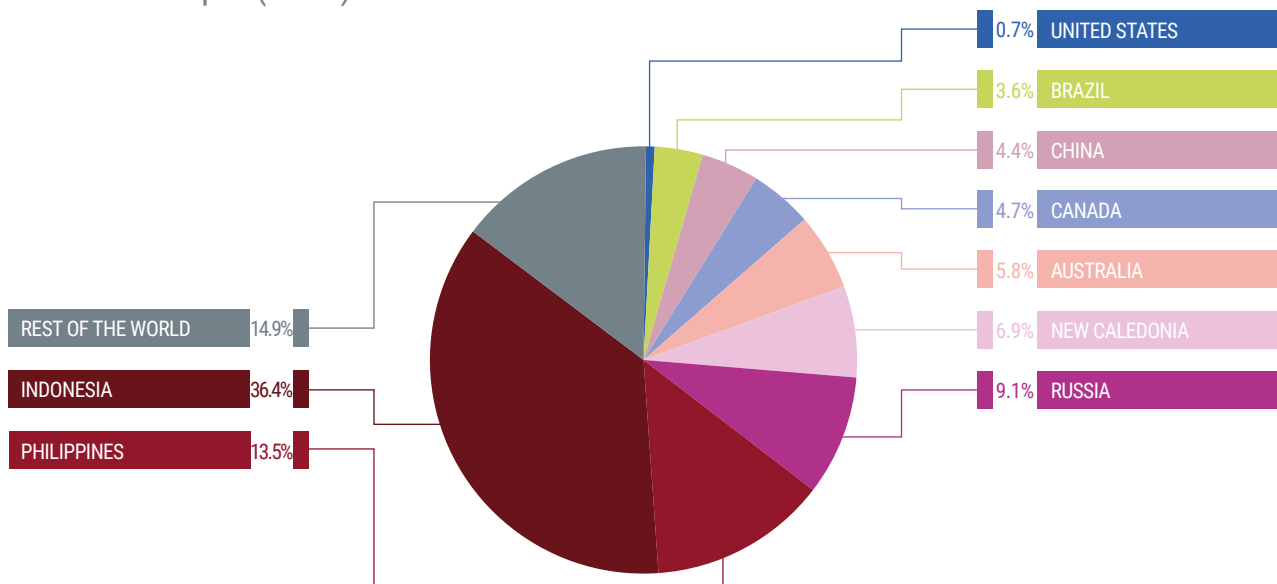
Nickel - Production

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	189,000	170,000	222,000	204,000	179,000	170,000	159,000	169,000	160,000	-5.3%	-0.5%
Botswana	28,000	28,000									
Brazil	52,000	59,100	160,000	160,000	78,600	74,400	60,600	77,100	100,000	29.7%	4.9%
Canada	198,000	158,000	235,000	236,000	214,000	176,000	181,000	167,000	130,000	-22.2%	-1.8%
China	77,000	79,000	92,900	98,000	103,000	110,000	120,000	120,000	120,000	0.0%	3.9%
Colombia	89,000	72,000	40,400	41,600	45,500						
Cuba	72,000	70,000	56,400	51,600	52,800	51,000	49,200				
Dominican Republic	46,000						56,900				
Finland					34,600						
Greece	23,200										
Guatemala			52,400	54,000	53,700						
Indonesia	160,000	232,000	130,000	199,000	345,000	606,000	853,000	771,000	1,000,000	29.7%	14.2%
Madagascar		15,000	45,000	49,000	41,700						
New Caledonia	112,000	130,000	186,000	207,000	215,000	216,000	208,000	200,000	190,000	-5.0%	3.5%
Philippines	26,600	173,000	554,000	347,000	366,000	345,000	323,000	334,000	370,000	10.8%	7.2%
Russia	315,000	269,000	269,000	222,000	214,000	272,000	279,000	283,000	250,000	-11.7%	-0.7%
South Africa	42,500	40,000	56,700	49,000	48,400						
Spain											
United States			27,200	24,100	22,100	17,800	13,500	16,700	18,000	7.8%	
Venezuela	20,000										
Zimbabwe	9,500										
Others	25,000	99,000	157,000	150,000	146,000	366,000	310,000	373,000	410,000	9.9%	13.8%
World (rounded)	1,490,000	1,590,000	2,280,000	2,090,000	2,160,000	2,400,000	2,610,000	2,510,000	2,700,000	7.6%	4.9%

The World Top 9 (2021)

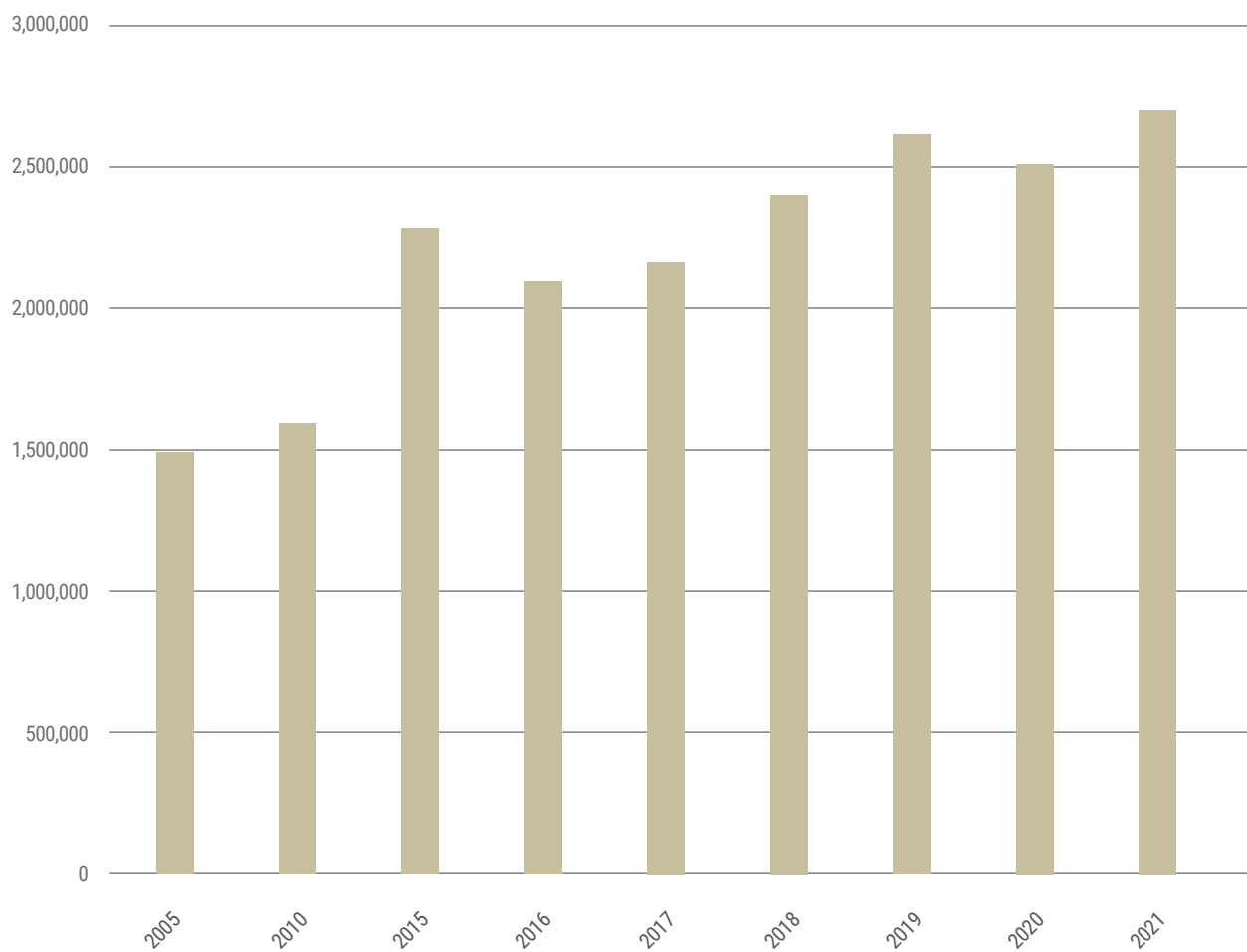


^(*) Data source: U.S. Geological Survey.

Nickel - Production

World Nickel Production

(tons)



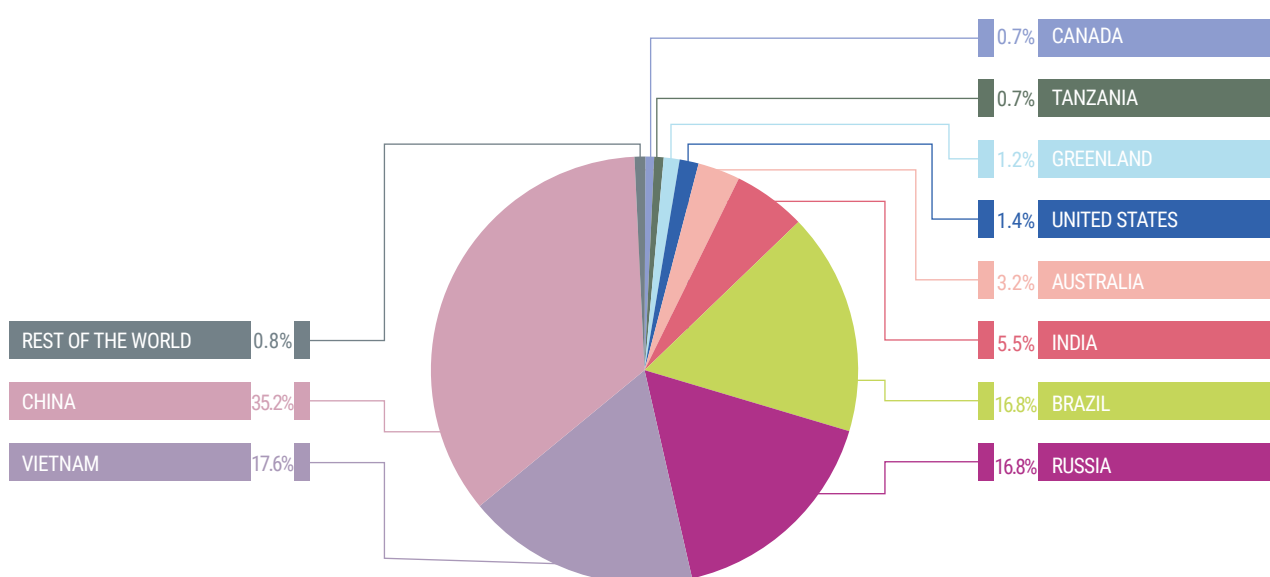
Rare Earths - Reserves

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia	5,200,000	1,600,000	3,200,000	3,400,000	3,400,000	3,400,000	3,300,000	4,100,000	4,000,000	-2.4%	8.7%
Brazil		48,000	22,000,000	22,000,000	22,000,000	22,000,000	22,000,000	21,000,000	21,000,000	0.0%	73.8%
Canada				830,000	830,000		830,000	830,000	830,000	0.0%	
China	27,000,000	55,000,000	55,000,000	44,000,000	44,000,000	44,000,000	44,000,000	44,000,000	44,000,000	0.0%	-2.0%
Commonwealth of Independent States**	19,000,000	19,000,000									
Greenland				1,500,000	1,500,000		1,500,000	1,500,000	1,500,000	0.0%	
India	1,100,000	3,100,000	3,100,000	6,900,000	6,900,000	6,900,000	6,900,000	6,900,000	6,900,000	0.0%	7.5%
Malawi				136,000	140,000						
Malaysia	30,000	30,000	30,000	30,000	30,000	30,000					
Russia				18,000,000	18,000,000	12,000,000	12,000,000	12,000,000	21,000,000	75.0%	
South Africa				860,000	860,000		790,000	790,000	790,000	0.0%	
Tanzania									890,000		
United States	13,000,000	13,000,000	1,800,000	1,400,000	1,400,000	1,400,000	1,400,000	1,500,000	1,800,000	20.0%	-16.5%
Vietnam				22,000,000	22,000,000	22,000,000	22,000,000	22,000,000	22,000,000	0.0%	
Others	22,000,000	22,000,000	41,000,000			4,400,000	310,000	310,000	280,000	-9.7%	-32.7%
World (rounded)	88,000,000	110,000,000	130,000,000	120,000,000	120,000,000	120,000,000	120,000,000	120,000,000	120,000,000	0.0%	0.8%

The World Top 10 (2021)



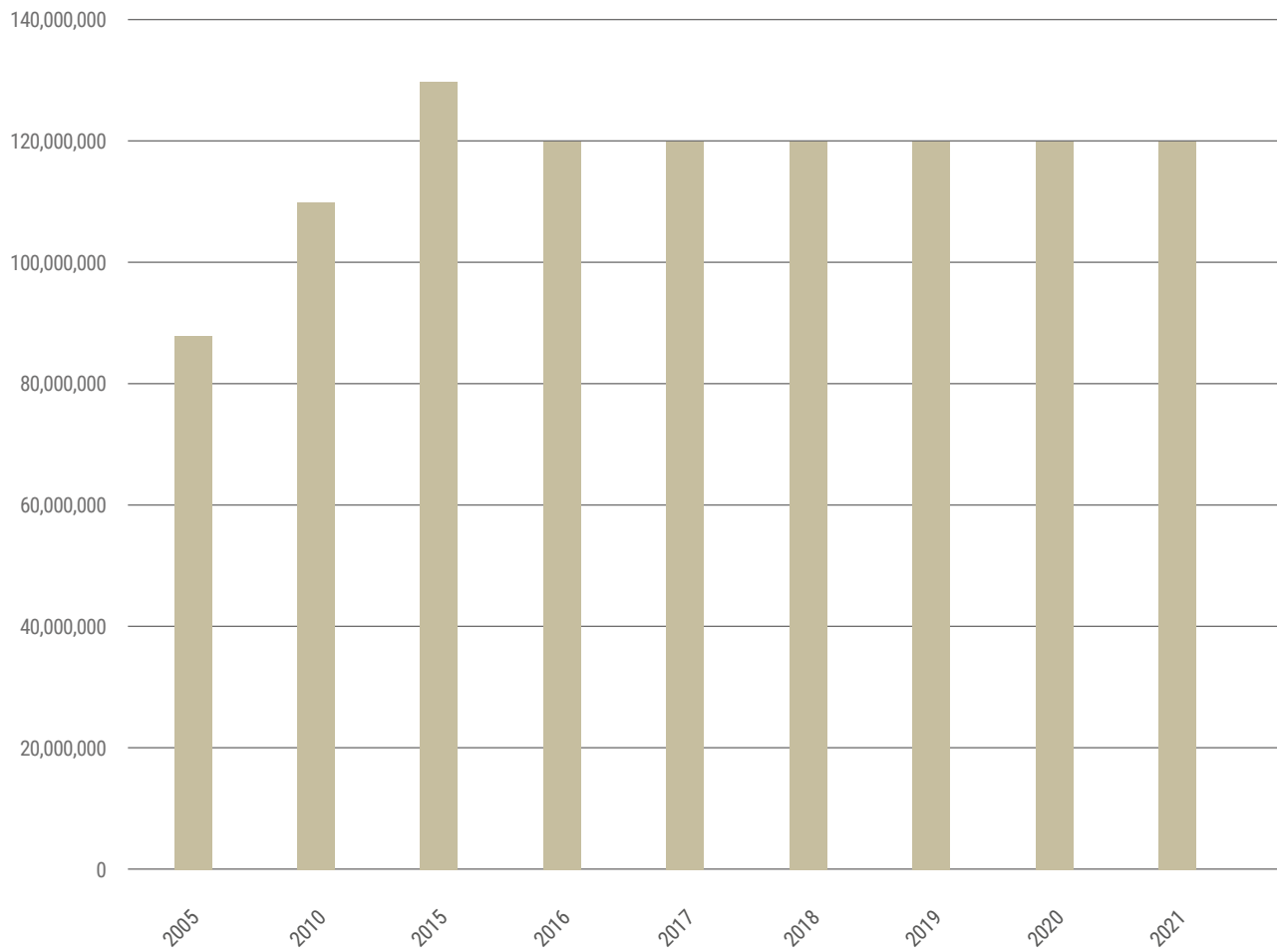
(*) Data source: U.S. Geological Survey.

(**) The aggregate includes the following States according to international definitions: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan. However, some of these countries may not produce rare earths.

Rare Earths - Reserves

World Rare Earths Reserves

(tons)



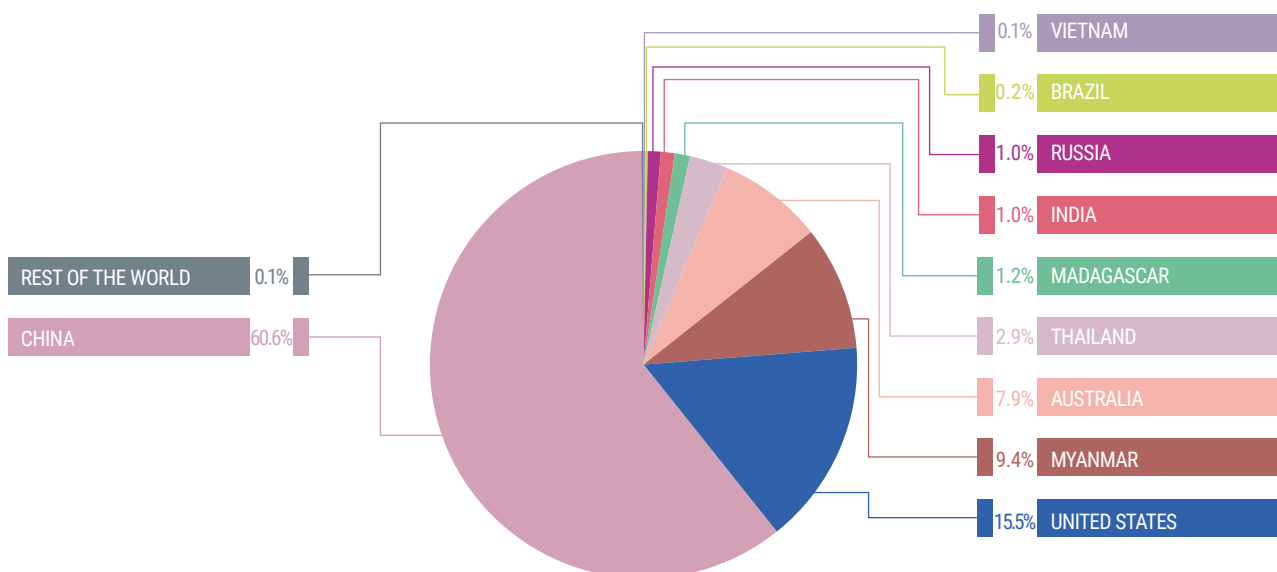
Rare Earths - Production

Countries^(*)

(tons)

	2005	2010	2015	2016	2017	2018	2019	2020	2021	Δ y/y (2021-2020)	CAGR (2021-2010)
Australia			12,000	15,000	19,000	21,000	20,000	21,000	22,000	4.8%	
Brazil		550	880	2,200	1,700	1,100	710	600	500	-16.7%	-0.9%
Burundi						630	200	300	100	-66.7%	
China	119,000	130,000	105,000	105,000	105,000	120,000	132,000	140,000	168,000	20.0%	2.4%
India	2,700	2,800	1,700	1,500	1,800	2,900	2,900	2,900	2,900	0.0%	0.3%
Madagascar						2,000	4,000	2,800	3,200	14.3%	
Malaysia	750	30	500	300	180						
Myanmar						19,000	25,000	31,000	26,000	-16.1%	
Russia			2,800	2,800	2,600	2,700	2,700	2,700	2,700	0.0%	
Thailand			760	1,600	1,300	1,000	1,900	3,600	8,000	122.2%	
United States			5,900			18,000	28,000	39,000	43,000	10.3%	
Vietnam			250	220	200	920	1,300	700	400	-42.9%	
Others	400					60	66	100	300	200.0%	
World (rounded)	123,000	133,000	130,000	129,000	132,000	190,000	220,000	240,000	280,000	16.7%	7.0%

The World Top 10 (2021)

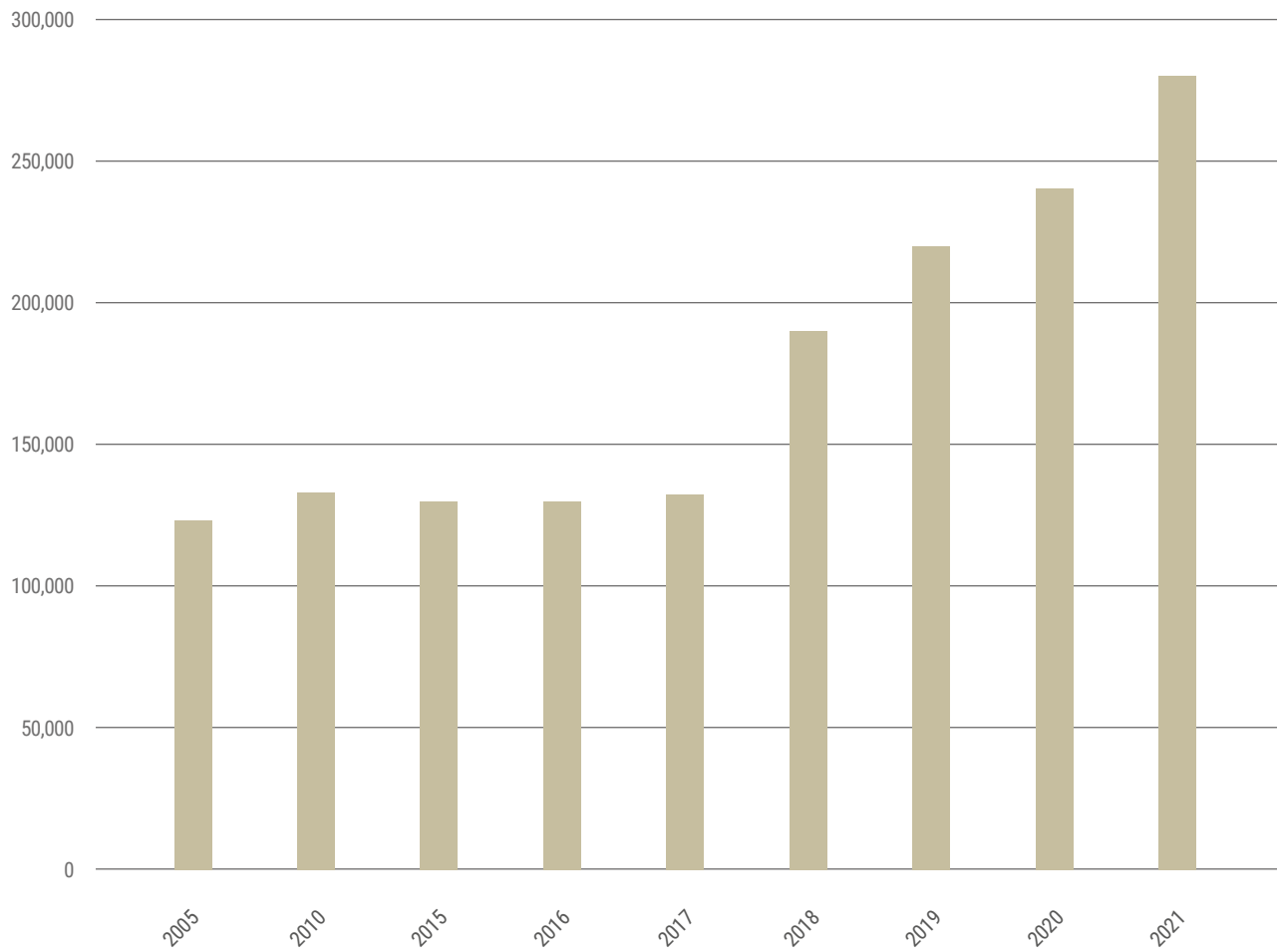


^(*) Data source: U.S. Geological Survey.

Rare Earths - Production

World Rare Earths Production

(tons)





Eni SpA

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

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