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volume 2

World Gas and Renewables Review 2020

World Gas and Renewables Review 2020

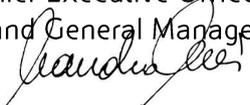
The second volume of the **World Oil, Gas and Renewables Review** together with the focus on oil and the refining industry of the World Oil Review provides figures and statistics on natural gas, biofuels and modern renewables.

Our 19th World Oil, Gas and Renewables Review observes the emerging decarbonisation trends with the goal of helping to identify the necessary actions to tackle the climate challenge.

The key findings from the World Gas and Renewables Review are:

- In 2019 global gas demand has continued to grow for the 10th year in a row, driven by Asia Pacific (+4.3%) and North America (+2.7%). China showed the highest increase among the top-10 gas consuming countries with a remarkable +8.6% and confirmed itself as the 1st world importer.
- Global gas production continued the positive trend with a +3.1% in 2019, despite the decline in Europe (-6.5%), largely in Norway and Netherlands, mainly thanks to new LNG plants start-up in US and Australia. During 2019, US became the 2nd world gas exporter after Russia overtaking Qatar.
- Big step forward for LNG that now accounts for 38% of total traded gas, gaining 4% share in one single year (34% in 2018). In 2019, 470 bcm of LNG were traded, of which nearly 70% imported by Asian countries.
- Solar energy continued to dominate renewable capacity expansion with a yearly increase of 20%, doubling the 10.5% growth recorded by wind.
- Asia confirmed its leadership in solar capacity expansion (about 60% of the total in 2019), although with a slowdown compared with 2018. As in recent years, in 2019 China maintained its leadership in solar and wind capacity.

Claudio Descalzi
Chief Executive Officer
and General Manager



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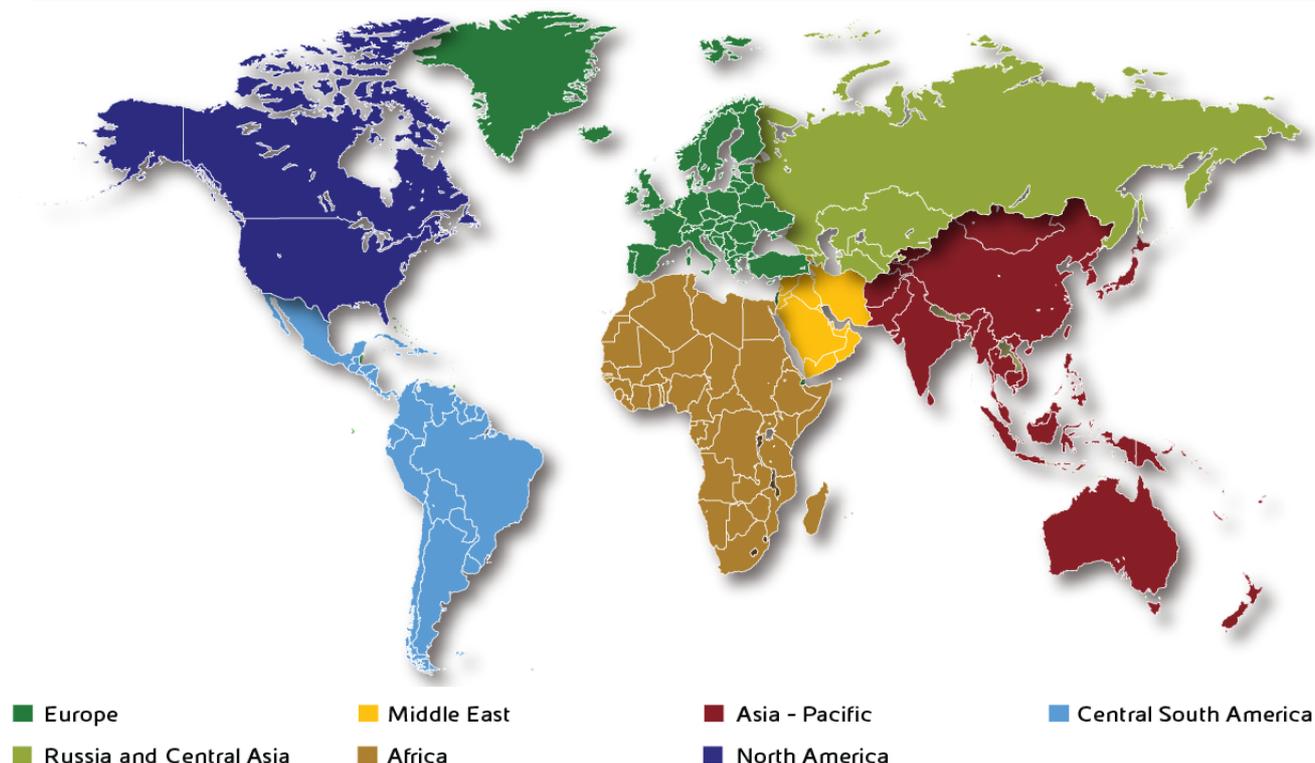
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List of Countries:

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

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

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

This Review has been prepared by the Scenarios, Positioning and Medium-Long Term Plan Department.

Notes and Methods

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 Economic Development, 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 some chapters, data for Sudan also include South Sudan data.

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.

Natural Gas - Supply and Demand

Reserves

Production

Reserves/Production Ratio

Consumption

Per Capita Consumption

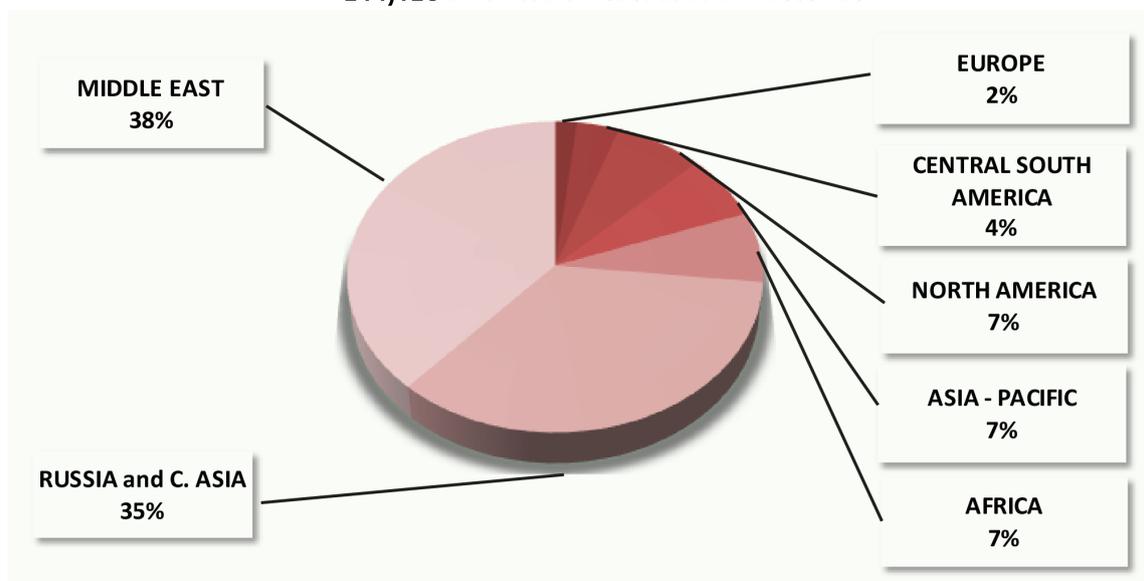
Production/Consumption Ratio

Areas and Aggregates^(*)

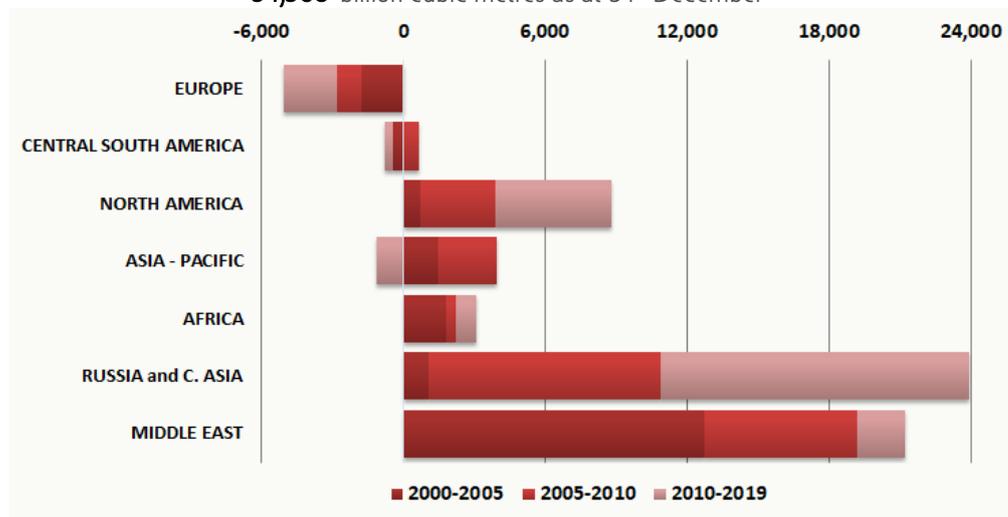
(billion cubic metres as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	8,874	7,103	6,038	4,941	4,691	4,531	3,951	3,829	-3.1%	-4.3%
Russia and Central Asia	50,036	51,087	60,900	73,772	74,162	74,442	73,845	73,910	0.1%	2.1%
Middle East	59,811	72,513	78,964	79,265	80,272	80,178	80,572	81,014	0.5%	1.6%
Africa	12,364	14,161	14,581	14,602	15,042	15,314	15,369	15,439	0.5%	1.2%
Asia - Pacific	11,491	12,978	15,402	15,222	14,808	14,529	14,337	14,240	-0.7%	1.1%
Americas	14,345	14,624	18,450	18,772	19,063	22,223	22,970	22,995	0.1%	2.5%
- North America	6,707	7,419	10,597	10,880	11,216	14,491	15,455	15,508	0.3%	4.5%
- Central South America	7,638	7,205	7,853	7,892	7,847	7,732	7,515	7,487	-0.4%	-0.1%
World	156,920	172,465	194,336	206,576	208,038	211,216	211,044	211,428	0.2%	1.6%
European Union	3,930	2,915	2,266	1,571	1,414	1,328	799	739	-7.5%	-8.4%
MENA	67,162	80,469	87,241	87,426	88,567	88,473	88,867	89,309	0.5%	1.5%
OECD	7,567	5,885	4,919	3,931	3,705	3,572	2,940	2,825	-3.9%	-5.1%
NON OECD	149,353	166,581	189,417	202,645	204,333	207,644	208,104	208,603	0.2%	1.8%
OPEC	58,052	61,146	69,234	70,523	71,783	71,988	72,392	72,864	0.7%	1.2%
NON OPEC	98,868	111,320	125,102	136,052	136,255	139,228	138,652	138,565	-0.1%	1.8%

World Natural Gas Reserves (2019)
211,428 billion cubic metres as at 31st December



World Natural Gas Reserves Growth (2000-2019)
54,508 billion cubic metres as at 31st December



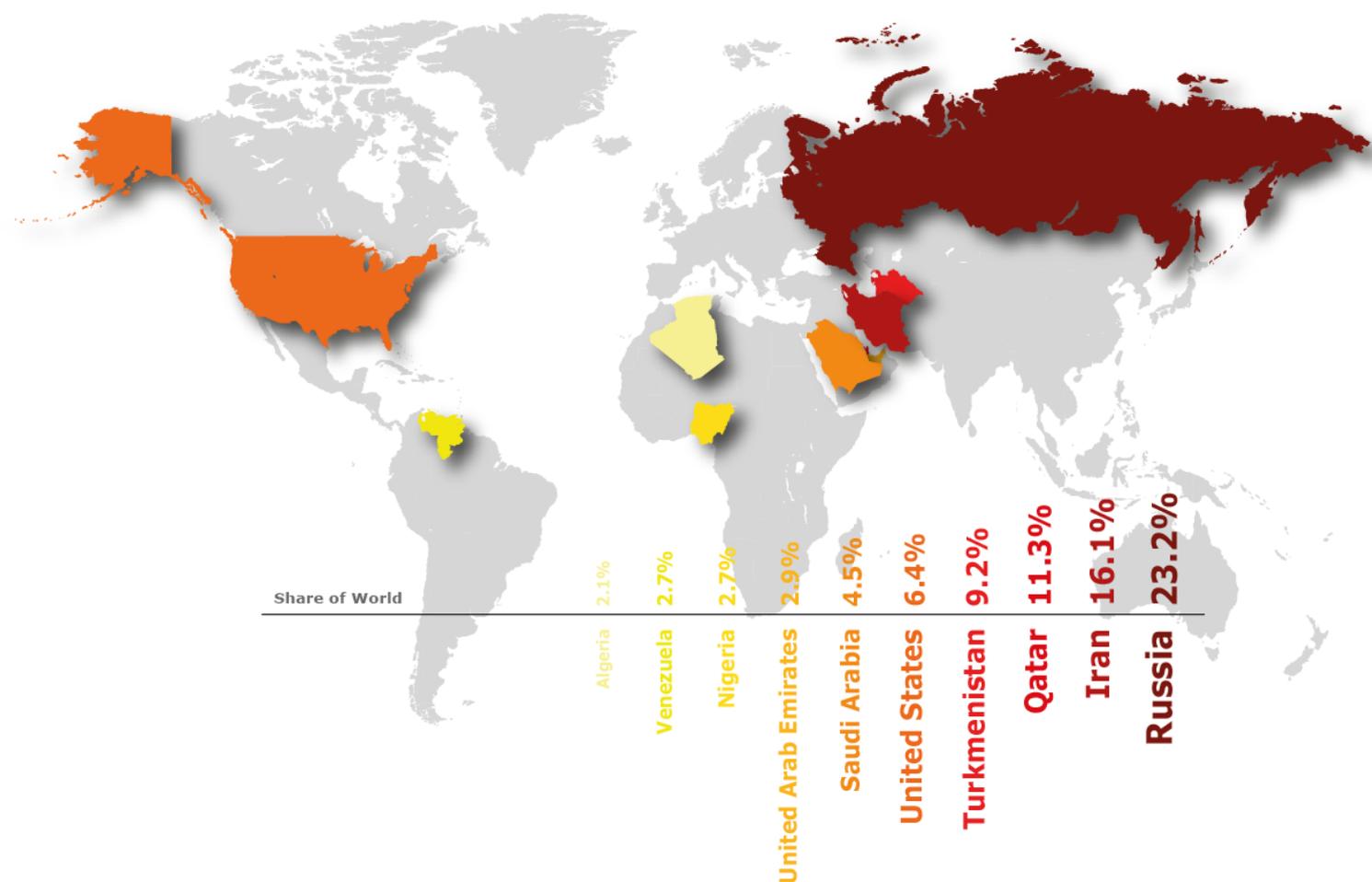
^(*) Data source: Eni's estimates on Enerdata *Global Energy Market & CO₂ Data* and other official data sources.

The World Top 10 Reserves Holders^(*)

(billion cubic metres as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia	43,809	44,860	46,000	50,205	50,617	50,508	49,571	49,154	-0.8%	0.6%
Iran	26,600	27,580	33,090	33,500	33,721	33,810	33,899	33,988	0.3%	1.3%
Qatar	14,443	25,636	25,201	24,299	24,073	23,861	23,846	23,831	-0.1%	2.7%
Turkmenistan	2,601	2,601	11,332	19,486	19,486	19,486	19,486	19,486	0.0%	11.2%
United States	5,024	5,787	8,620	8,709	9,119	12,408	13,447	13,447	0.0%	5.3%
Saudi Arabia	6,301	6,900	8,016	8,588	8,619	8,715	9,069	9,423	3.9%	2.1%
United Arab Emirates	6,060	6,060	6,091	6,091	6,091	6,091	6,091	6,091	0.0%	0.0%
Nigeria	4,106	5,152	5,178	5,284	5,475	5,627	5,675	5,761	1.5%	1.8%
Venezuela	4,152	4,315	5,525	5,702	5,740	5,707	5,674	5,674	0.0%	1.7%
Algeria	4,523	4,504	4,504	4,504	4,504	4,504	4,504	4,504	0.0%	0.0%
The World Top 10	117,619	133,395	153,557	166,368	167,444	170,716	171,262	171,359	0.1%	2.0%
Rest of the World	39,301	39,070	40,779	40,208	40,594	40,500	39,782	40,069	0.7%	0.1%
World	156,920	172,465	194,336	206,576	208,038	211,216	211,044	211,428	0.2%	1.6%

The World Top 10 (2019)



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

Countries^(*)

(billion cubic metres as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	8.874	7.103	6.038	4.941	4.691	4.531	3.951	3.829	-3,1%	-4,3%
Albania	1	0	0	0	0	0	1	1	0,0%	2,7%
Austria	26	21	15	9	8	8	7	6	-9,5%	-7,2%
Belarus	2	1	1	1	1	1	1	1	0,0%	-7,0%
Bulgaria	6	3	5	4	4	4	4	4	0,0%	-1,9%
Croatia	29	30	25	11	10	9	6	6	-5,6%	-8,1%
Czech Republic	4	3	3	3	3	3	3	3	0,0%	-1,0%
Denmark	144	122	101	80	77	72	69	66	-3,8%	-4,0%
France	8	7	5	9	9	9	9	9	0,0%	0,4%
Germany	264	178	87	46	42	37	30	25	-17,3%	-11,7%
Greece	1	1	1	1	1	1	1	1	0,0%	0,0%
Hungary	32	21	12	9	7	6	7	4	-38,1%	-10,2%
Ireland	34	25	25	30	30	30	29	28	-3,7%	-1,0%
Italy (**)	199	117	66	49	38	45	48	43	-10,3%	-7,7%
Moldova	2	1	1	1	1	1	1	1	0,0%	-7,0%
Netherlands	1.684	1.431	1.236	825	740	695	196	147	-25,0%	-12,0%
Norway	3.841	3.108	2.762	2.461	2.388	2.334	2.226	2.165	-2,7%	-3,0%
Poland	119	106	71	61	58	56	73	85	16,8%	-1,7%
Romania	202	143	110	103	99	92	87	81	-7,0%	-4,7%
Serbia and Montenegro	25	10	8	6	6	6	5	5	-3,8%	-8,1%
Slovakia	7	6	5	5	5	4	4	4	-4,3%	-2,4%
Slovenia	0	0	1	1	1	0	0	0		
Spain	5	3	3	3	3	3	3	3	-1,8%	-2,3%
Turkey	4	8	6	6	6	6	6	6	-1,3%	2,2%
Ukraine	1.040	1.030	969	884	865	846	906	906	0,0%	-0,7%
United Kingdom	1.195	728	520	333	288	263	228	228	0,0%	-8,3%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	50,036	51,087	60,900	73,772	74,162	74,442	73,845	73,910	0.1%	2.1%
Russia	43,809	44,860	46,000	50,205	50,617	50,508	49,571	49,154	-0.8%	0.6%
Azerbaijan	499	499	515	665	665	1,074	1,435	1,917	33.6%	7.3%
Georgia	1	1	1	1	1	1	1	1	0.0%	-3.6%
Kazakhstan	1,389	1,389	1,389	1,830	1,830	1,830	1,830	1,830	0.0%	1.5%
Kyrgyzstan	1	1	1	1	1	1	1	1	0.0%	-3.6%
Tajikistan	1	1	1	1	1	1	1	1	0.0%	-3.6%
Turkmenistan	2,601	2,601	11,332	19,486	19,486	19,486	19,486	19,486	0.0%	11.2%
Uzbekistan	1,735	1,735	1,661	1,585	1,564	1,543	1,522	1,522	0.0%	-0.7%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	59,811	72,513	78,964	79,265	80,272	80,178	80,572	81,014	0.5%	1.6%
Bahrain	110	110	110	163	224	210	210	193	-8.3%	3.0%
Iran	26,600	27,580	33,090	33,500	33,721	33,810	33,899	33,988	0.3%	1.3%
Iraq	3,109	3,170	3,158	3,158	3,820	3,744	3,729	3,714	-0.4%	0.9%
Israel	45	45	215	206	465	488	497	547	10.2%	14.0%
Jordan	7	6	6	6	6	6	6	6	0.0%	-0.8%
Kuwait	1,557	1,572	1,784	1,784	1,784	1,784	1,784	1,784	0.0%	0.7%
Oman	859	670	520	705	705	705	677	674	-0.5%	-1.3%
Qatar	14,443	25,636	25,201	24,299	24,073	23,861	23,846	23,831	-0.1%	2.7%
Saudi Arabia	6,301	6,900	8,016	8,588	8,619	8,715	9,069	9,423	3.9%	2.1%
Syria	241	285	285	285	285	285	285	285	0.0%	0.9%
United Arab Emirates	6,060	6,060	6,091	6,091	6,091	6,091	6,091	6,091	0.0%	0.0%
Yemen	479	479	488	479	479	479	479	479	0.0%	0.0%

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

(**) Data source: Italian Ministry for Economic Development.

Countries^(*)

(billion cubic metres as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	12,364	14,161	14,581	14,602	15,042	15,314	15,369	15,439	0.5%	1.2%
Algeria	4,523	4,504	4,504	4,504	4,504	4,504	4,504	4,504	0.0%	0.0%
Angola	269	270	275	316	440	422	383	343	-10.3%	1.3%
Benin	1	1	1	0	0	0	0	0		-100.0%
Cameroon	102	165	155	153	152	151	150	149	-0.5%	2.0%
Chad	0	0	1	1	1	1	1	1	0.0%	
Congo	122	130	182	285	285	285	285	284	-0.2%	4.6%
Côte d'Ivoire	28	31	27	22	21	20	18	18	0.0%	-2.3%
Dem. Rep. Congo	1	1	1	1	1	1	1	1	0.0%	0.0%
Egypt	1,433	1,920	2,210	2,086	2,221	2,221	2,221	2,221	0.0%	2.3%
Equatorial Guinea	17	91	82	54	47	42	42	39	-7.1%	4.5%
Ethiopia	25	25	28	25	25	25	35	35	0.0%	1.8%
Gabon	33	30	28	25	26	26	26	26	0.0%	-1.3%
Ghana	24	24	27	27	27	58	56	55	-2.1%	4.4%
Libya	1,314	1,491	1,495	1,505	1,505	1,505	1,505	1,505	0.0%	0.7%
Madagascar	2	2	2	2	2	2	2	2	0.0%	0.0%
Mauritania	0	0	28	28	28	28	50	50	0.0%	
Morocco	3	3	3	1	1	1	1	1	0.0%	-5.6%
Mozambique	62	61	75	75	75	186	186	186	0.0%	5.9%
Namibia	85	70	70	70	70	70	70	70	0.0%	-1.0%
Nigeria	4,106	5,152	5,178	5,284	5,475	5,627	5,675	5,761	1.5%	1.8%
Senegal	11	11	10	2	2	2	21	52	142.7%	8.5%
Somalia	0	0	0	6	6	6	6	6	0.0%	
South Africa	17	29	12	3	2	3	2	2	-17.4%	-11.1%
Sudan	85	85	85	25	25	25	25	25	0.0%	-6.2%
Tanzania	23	28	37	37	37	40	40	39	-1.6%	2.8%
Tunisia	78	37	65	65	65	64	64	64	0.0%	-1.0%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific	11,491	12,978	15,402	15,222	14,808	14,529	14,337	14,240	-0.7%	1.1%
Afghanistan	100	100	100	99	99	99	99	98	-0.3%	-0.1%
Australia	2,203	2,428	3,759	3,205	3,193	3,193	3,193	3,173	-0.6%	1.9%
Bangladesh	306	407	354	385	365	337	325	312	-4.0%	0.1%
Brunei	366	333	301	258	252	240	246	240	-2.4%	-2.2%
China	1,269	1,690	2,244	2,791	2,838	2,786	2,779	2,834	2.0%	4.3%
India	760	1,101	1,149	1,252	1,227	1,284	1,340	1,381	3.1%	3.2%
Indonesia	2,608	2,659	3,068	2,865	2,841	2,745	2,605	2,605	0.0%	0.0%
Japan	40	39	37	31	29	28	27	26	-4.5%	-2.3%
Malaysia	2,189	2,346	2,334	2,842	2,470	2,346	2,290	2,217	-3.2%	0.1%
Myanmar	287	485	522	282	273	265	256	248	-3.2%	-0.8%
New Zealand	57	62	52	56	50	51	53	54	2.2%	-0.3%
Pakistan	677	712	617	467	479	502	499	446	-10.6%	-2.2%
Papua New Guinea	3	3	263	216	238	226	217	205	-5.4%	24.3%
Philippines	90	82	68	53	51	40	38	35	-7.4%	-4.9%
South Korea	0	3	3	3	3	3	3	3	0.0%	
Taiwan	6	4	4	3	3	3	3	3	0.0%	-4.2%
Thailand	360	304	300	207	193	181	171	171	-0.1%	-3.8%
Vietnam	170	220	228	207	203	199	195	190	-2.5%	0.6%

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

Countries^(*)

(billion cubic metres as at 31st December)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	14,345	14,624	18,450	18,772	19,063	22,223	22,970	22,995	0.1%	2.5%
Argentina	778	439	359	350	337	355	354	354	0.0%	-4.1%
Barbados	0	2	2	2	0	1	1	1	0.0%	
Bolivia	675	710	281	305	310	303	201	200	-0.5%	-6.2%
Brazil	221	306	417	429	378	370	368	365	-1.1%	2.7%
Canada	1,683	1,632	1,977	2,171	2,097	2,083	2,008	2,061	2.6%	1.1%
Chile	17	13	8	6	5	5	4	4	0.0%	-7.1%
Colombia	129	113	153	123	114	110	107	90	-16.4%	-1.9%
Cuba	18	17	14	9	8	8	8	8	0.0%	-4.2%
Ecuador	10	9	7	11	11	11	11	11	-1.7%	0.4%
Mexico	835	412	353	257	208	199	188	183	-2.8%	-7.7%
Peru	245	338	353	399	456	365	300	300	0.0%	1.1%
Trinidad and Tobago	557	531	381	300	281	298	298	298	0.0%	-3.2%
United States	5,024	5,787	8,620	8,709	9,119	12,408	13,447	13,447	0.0%	5.3%
Venezuela	4,152	4,315	5,525	5,702	5,740	5,707	5,674	5,674	0.0%	1.7%

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

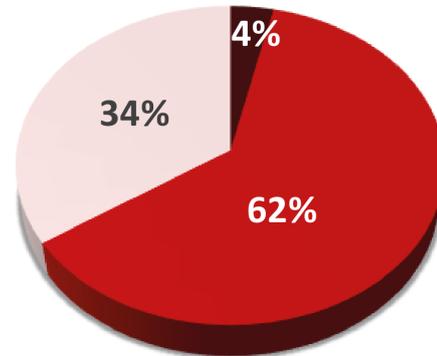
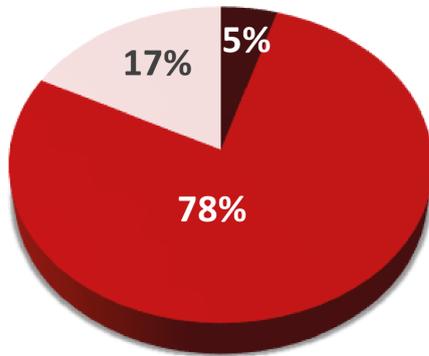
Cluster of Companies(*)

2000

2019

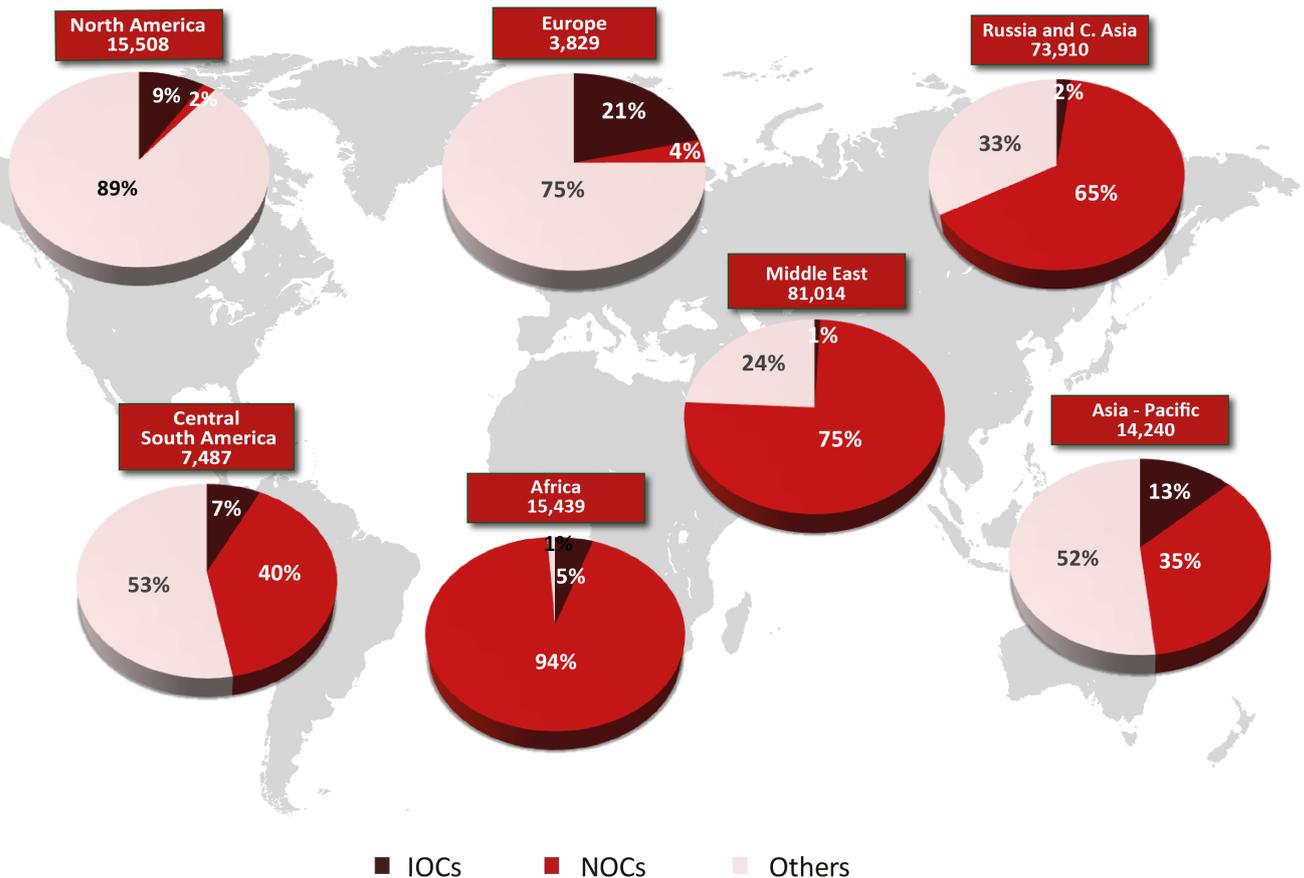
World: 156,920 billion cubic metres as at 31st December

World: 211,428 billion cubic metres as at 31st December



2019

(billion cubic metres as at 31st December)



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

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

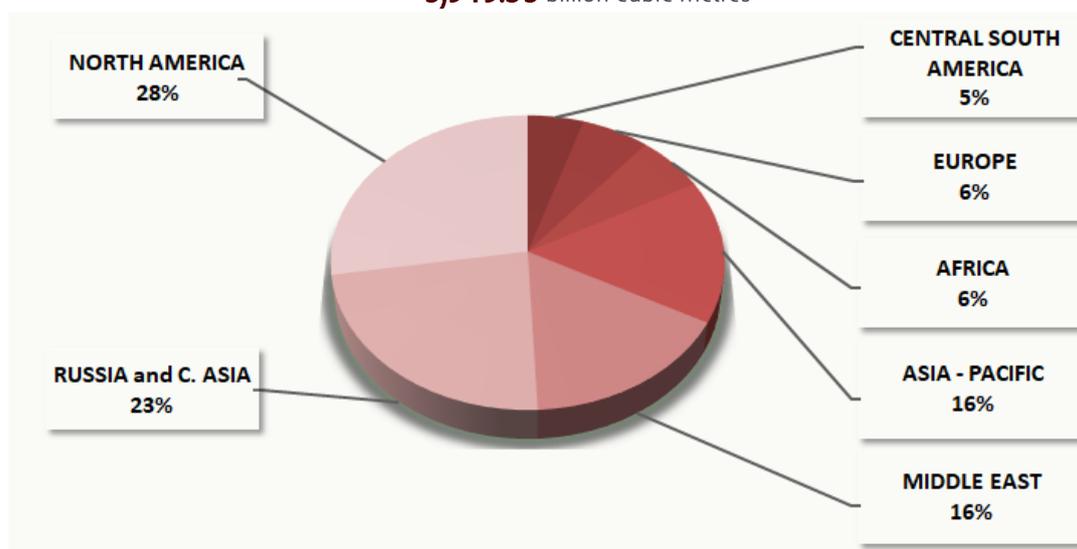
Areas and Aggregates^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	316.81	328.35	314.55	262.80	262.51	265.26	253.18	236.81	-6.5%	-1.5%
Russia and Central Asia	659.65	741.00	778.53	786.77	804.13	859.72	901.78	917.47	1.7%	1.8%
Middle East	191.26	294.94	458.21	575.08	596.43	617.01	635.70	650.02	2.3%	6.7%
Africa	121.48	183.85	202.74	196.21	208.38	227.42	240.91	241.62	0.3%	3.7%
Asia - Pacific	281.09	361.34	472.46	512.88	526.97	551.82	582.27	620.93	6.6%	4.3%
Americas	830.71	849.44	932.12	1,116.01	1,109.59	1,126.61	1,216.05	1,282.68	5.5%	2.3%
- North America	692.35	670.09	725.96	902.28	902.26	922.94	1,016.12	1,087.40	7.0%	2.4%
- Central South America	138.36	179.35	206.16	213.73	207.33	203.68	199.93	195.28	-2.3%	1.8%
World	2,401.00	2,758.91	3,158.61	3,449.75	3,508.02	3,647.84	3,829.90	3,949.53	3.1%	2.7%
European Union	243.98	221.57	185.25	124.83	124.81	119.85	109.23	101.10	-7.4%	-4.5%
MENA	297.11	445.55	615.49	712.26	748.08	778.66	807.02	820.48	1.7%	5.5%
OECD	1,058.84	1,058.11	1,124.30	1,258.23	1,268.28	1,309.22	1,403.16	1,481.76	5.6%	1.8%
NON OECD	1,342.15	1,700.81	2,034.31	2,191.52	2,239.74	2,338.62	2,426.74	2,467.76	1.7%	3.3%
OPEC	266.56	359.19	436.24	514.18	544.96	574.34	589.43	590.94	0.3%	4.3%
NON OPEC	2,134.44	2,399.72	2,722.37	2,935.57	2,963.06	3,073.51	3,240.47	3,358.58	3.6%	2.4%

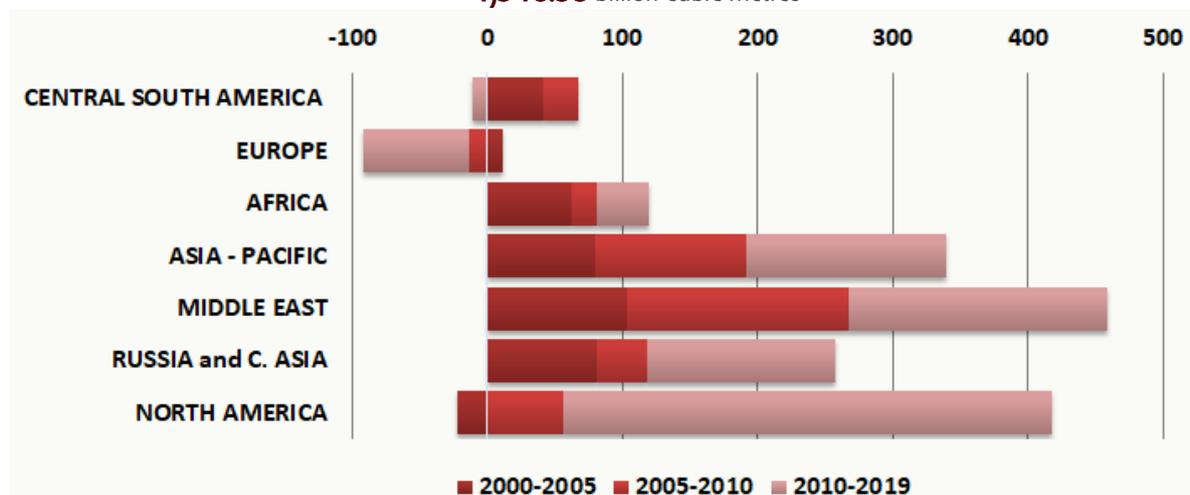
World Natural Gas Production (2019)

3,949.53 billion cubic metres



World Natural Gas Production Growth (2000-2019)

1,548.53 billion cubic metres



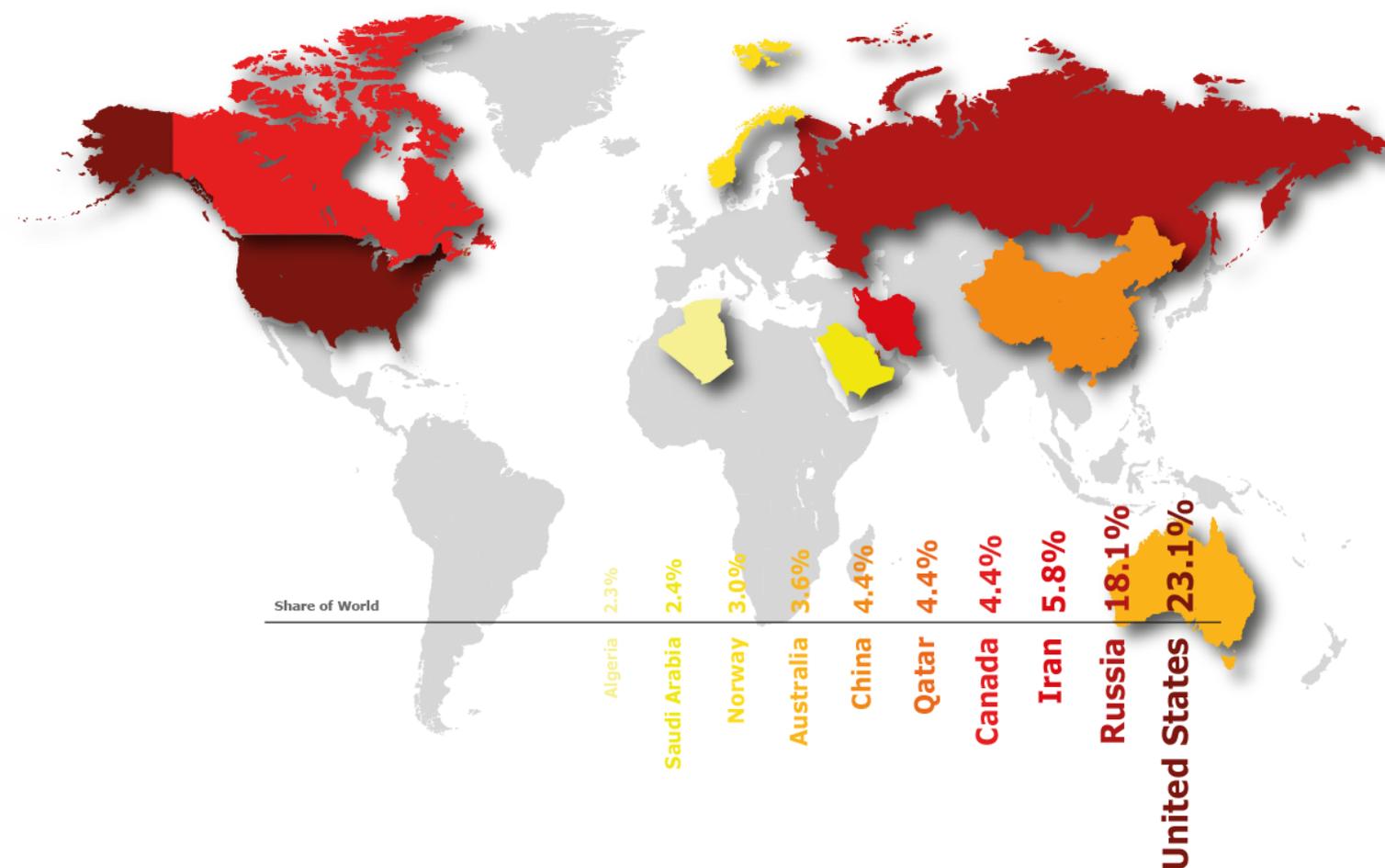
^(*) Data source: Eni's calculations. The original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

The World Top 10 Producers^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
United States	519.80	490.27	575.44	740.45	729.57	746.27	836.19	913.43	9.2%	3.0%
Russia	547.47	599.92	628.20	609.79	626.16	675.65	705.49	716.76	1.6%	1.4%
Iran	57.98	97.07	141.56	181.12	196.62	212.24	221.63	227.89	2.8%	7.5%
Canada	172.54	179.81	150.52	161.83	172.69	176.67	179.93	173.97	-3.3%	0.0%
Qatar	25.34	46.36	124.79	170.76	172.95	172.33	171.40	173.43	1.2%	10.7%
China	26.47	48.00	93.23	131.01	133.21	144.08	157.37	172.74	9.8%	10.4%
Australia	33.19	36.47	51.73	67.66	80.40	102.67	117.69	142.04	20.7%	8.0%
Norway	53.83	87.27	110.16	119.61	119.02	126.44	123.76	116.94	-5.5%	4.2%
Saudi Arabia	35.80	53.46	69.66	82.89	86.25	90.72	92.00	93.24	1.3%	5.2%
Algeria	81.24	87.94	83.70	83.06	93.69	95.17	96.10	89.53	-6.8%	0.5%
The World Top 10	1,553.65	1,726.58	2,029.00	2,348.19	2,410.56	2,542.25	2,701.56	2,819.98	4.4%	3.2%
Rest of the World	847	1,032	1,130	1,102	1,097	1,106	1,128	1,130	0.1%	1.5%
World	2,401.00	2,758.91	3,158.61	3,449.75	3,508.02	3,647.84	3,829.90	3,949.53	3.1%	2.7%

The World Top 10 (2019)



^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a united gross calorific value of 40 MJ/cm.

Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	316.81	328.35	314.55	262.80	262.51	265.26	253.18	236.81	-6.5%	-1.5%
Albania	0.01	0.01	0.01	0.03	0.04	0.04	0.04	0.04	-2.0%	6.8%
Austria	1.80	1.55	1.62	1.20	1.12	1.21	1.00	0.90	-10.4%	-3.6%
Belarus	0.21	0.19	0.16	0.17	0.16	0.14	0.15	0.15	0.1%	-1.9%
Bulgaria	0.01	0.45	0.07	0.10	0.09	0.08	0.03	0.04	16.6%	5.4%
Croatia	1.58	2.17	2.58	1.71	1.59	1.43	1.18	0.99	-16.4%	-2.4%
Czech Republic	0.20	0.18	0.23	0.24	0.21	0.22	0.21	0.20	-3.9%	0.1%
Denmark	8.62	10.91	8.54	4.82	4.71	5.06	4.31	3.20	-25.7%	-5.1%
France	1.75	1.06	0.75	0.02	0.02	0.02	0.01	0.02	85.2%	-21.7%
Germany	18.38	16.67	12.92	7.37	7.62	7.01	5.48	5.57	1.6%	-6.1%
Greece	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.01	-24.5%	-7.5%
Hungary	2.88	2.71	2.60	1.59	1.66	1.64	1.71	1.53	-10.3%	-3.3%
Ireland	1.11	0.57	0.27	0.13	2.89	3.31	3.20	2.49	-22.0%	4.3%
Italy	15.84	11.50	8.01	6.45	5.51	5.28	5.19	4.57	-11.9%	-6.3%
Netherlands	61.36	65.33	75.27	45.88	44.29	38.53	32.30	28.09	-13.0%	-4.0%
Norway	53.83	87.27	110.16	119.61	119.02	126.44	123.76	116.94	-5.5%	4.2%
Poland	3.85	4.52	4.29	4.28	4.13	4.08	4.03	3.99	-1.2%	0.2%
Romania	12.76	11.28	10.02	10.22	9.05	9.91	9.86	9.65	-2.1%	-1.5%
Serbia	0.73	0.27	0.36	0.53	0.48	0.45	0.42	0.40	-3.8%	-3.1%
Slovakia	0.15	0.15	0.10	0.09	0.09	0.14	0.09	0.12	32.9%	-1.3%
Slovenia	0.01	0.00	0.01	0.00	0.00	0.01	0.02	0.01	-56.8%	-0.1%
Spain	0.17	0.17	0.05	0.06	0.06	0.03	0.09	0.14	53.9%	-1.3%
Turkey	0.61	0.86	0.65	0.36	0.35	0.34	0.41	0.45	9.9%	-1.6%
Ukraine	17.45	18.19	17.95	17.26	17.64	17.99	19.17	17.74	-7.5%	0.1%
United Kingdom	113.46	92.34	57.90	40.66	41.74	41.88	40.52	39.59	-2.3%	-5.4%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	659.65	741.00	778.53	786.77	804.13	859.72	901.78	917.47	1.7%	1.8%
Russia	547.47	599.92	628.20	609.79	626.16	675.65	705.49	716.76	1.6%	1.4%
Azerbaijan	5.32	5.40	16.27	18.78	18.28	17.76	18.76	23.94	27.7%	8.2%
Georgia	0.06	0.02	0.01	0.01	0.01	0.01	0.01	0.01	-5.7%	-9.6%
Kazakhstan	8.86	18.41	28.62	27.14	30.93	36.38	39.18	38.32	-2.2%	8.0%
Kyrgyzstan	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.02	-10.8%	-1.9%
Tajikistan	0.04	0.03	0.02	0.00	0.00	0.00	0.00	0.00	-22.6%	-20.5%
Turkmenistan	44.44	59.68	42.91	79.28	75.56	76.25	79.98	82.10	2.6%	3.3%
Uzbekistan	53.42	57.52	62.48	51.72	53.17	53.65	58.34	56.31	-3.5%	0.3%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	191.26	294.94	458.21	575.08	596.43	617.01	635.70	650.02	2.3%	6.7%
Bahrain	7.96	9.71	12.29	14.15	13.99	14.01	14.18	16.11	13.6%	3.8%
Iran	57.98	97.07	141.56	181.12	196.62	212.24	221.63	227.89	2.8%	7.5%
Iraq	2.99	1.73	4.87	6.60	7.26	8.25	11.22	11.43	1.9%	7.3%
Israel	0.01	1.53	3.11	6.90	7.68	8.11	8.63	8.74	1.2%	43.5%
Jordan	0.25	0.21	0.16	0.12	0.10	0.10	0.09	0.09	-0.1%	-5.2%
Kuwait	9.12	11.69	11.15	16.06	16.43	16.25	16.85	18.54	10.0%	3.8%
Oman	10.53	20.84	27.64	32.89	33.58	33.72	38.09	38.82	1.9%	7.1%
Qatar	25.34	46.36	124.79	170.76	172.95	172.33	171.40	173.43	1.2%	10.7%
Saudi Arabia	35.80	53.46	69.66	82.89	86.25	90.72	92.00	93.24	1.3%	5.2%
Syria	5.37	5.75	8.43	4.05	3.53	3.49	3.47	3.33	-4.1%	-2.5%
United Arab Emirates	35.91	46.60	48.31	56.69	57.54	57.48	58.04	58.31	0.5%	2.6%
Yemen	0.00	0.00	6.26	2.86	0.50	0.30	0.10	0.10	0.0%	0.0%

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Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	121.48	183.85	202.72	196.21	208.38	227.42	240.91	241.62	0.3%	3.7%
Algeria	81.24	87.94	83.70	83.06	93.69	95.17	96.10	89.53	-6.8%	0.5%
Angola	0.54	0.62	0.70	0.73	1.62	5.51	5.88	6.46	9.8%	13.9%
Cameroon	0.00	0.00	0.30	0.48	0.52	0.58	1.53	2.26	47.5%	
Congo	0.00	0.02	0.10	0.50	0.57	0.60	0.60	0.61	1.6%	
Côte d'Ivoire	1.47	1.46	1.54	1.96	1.97	2.19	2.00	2.30	15.2%	2.4%
Egypt	16.79	49.58	53.97	36.39	40.45	50.33	59.58	63.76	7.0%	7.3%
Equatorial Guinea	0.03	3.35	6.21	5.89	5.89	6.27	7.36	6.63	-10.0%	33.2%
Gabon	0.12	0.14	0.31	0.52	0.52	0.46	0.45	0.39	-12.1%	6.5%
Ghana	0.00	0.00	0.00	0.70	0.62	0.89	0.86	1.09	26.6%	
Libya	5.59	10.73	15.97	14.72	14.79	13.59	13.19	14.98	13.6%	5.3%
Morocco	0.04	0.04	0.05	0.08	0.07	0.07	0.08	0.09	13.7%	3.6%
Mozambique	0.00	2.17	3.12	4.76	4.86	4.81	4.81	4.72	-1.8%	56.3%
Nigeria	11.84	23.00	30.91	41.50	38.28	42.85	44.36	44.83	1.0%	7.3%
Senegal	0.00	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.0%	16.8%
South Africa	1.63	2.07	1.47	1.12	1.02	0.82	0.98	1.12	14.6%	-1.9%
Tanzania	0.00	0.39	0.75	0.85	0.81	0.75	0.72	0.72	0.0%	
Tunisia	2.19	2.32	3.58	2.93	2.64	2.49	2.38	2.09	-12.2%	-0.2%
Others Africa	0.00	0.00	0.00	0.01	0.03	0.02	0.02	0.02	0.0%	14.9%
Asia - Pacific	281.09	361.34	472.46	512.88	526.97	551.82	582.27	620.93	6.6%	4.3%
Australia	33.19	36.47	51.73	67.66	80.40	102.67	117.69	142.04	20.7%	8.0%
Bangladesh	8.58	12.57	19.34	24.58	26.87	26.83	26.76	26.01	-2.8%	6.0%
Brunei	11.01	11.63	11.94	10.95	10.56	11.57	12.39	12.76	3.0%	0.8%
China	26.47	48.00	93.23	131.01	133.21	144.08	157.37	172.74	9.8%	10.4%
India	26.83	30.17	49.97	30.35	30.08	30.94	31.25	31.23	-0.1%	0.8%
Indonesia	71.13	76.27	87.00	76.16	75.08	72.70	72.80	67.52	-7.3%	-0.3%
Japan	2.66	3.37	3.73	2.76	2.85	2.98	2.59	2.99	15.6%	0.6%
Malaysia	49.50	64.40	59.32	67.27	66.56	65.23	68.80	70.63	2.7%	1.9%
Myanmar	6.02	11.98	11.83	17.18	18.61	18.55	18.11	17.86	-1.4%	5.9%
New Zealand	5.88	3.75	4.48	4.70	4.92	4.86	4.31	4.64	7.7%	-1.2%
Pakistan	19.39	29.82	31.38	28.21	25.15	22.03	21.62	21.21	-1.9%	0.5%
Philippines	0.01	3.14	3.55	3.34	3.83	3.78	4.22	4.34	2.9%	37.5%
South Korea	0.00	0.51	0.56	0.20	0.16	0.36	0.30	0.25	-17.8%	
Taiwan	0.70	0.46	0.25	0.31	0.27	0.22	0.17	0.14	-15.7%	-8.1%
Thailand	18.19	21.52	28.76	30.00	29.42	27.47	26.59	27.30	2.7%	2.2%
Vietnam	1.30	6.96	9.45	10.21	10.18	9.08	9.24	9.42	2.0%	11.0%
Others Asia - Pacific	0.23	0.32	5.93	7.98	8.82	8.47	8.06	9.83	22.0%	21.9%
Americas	830.71	849.44	932.12	1,116.01	1,109.59	1,126.61	1,216.05	1,282.68	5.5%	2.3%
Argentina	39.92	46.43	40.25	38.86	39.91	40.54	41.58	43.32	4.2%	0.4%
Bolivia	3.42	11.91	14.36	21.06	20.15	19.54	18.23	15.65	-14.2%	8.3%
Brazil	7.25	11.03	14.93	23.76	24.00	27.15	25.09	26.28	4.7%	7.0%
Canada	172.54	179.81	150.52	161.83	172.69	176.67	179.93	173.97	-3.3%	0.0%
Chile	1.86	1.87	1.80	0.98	1.18	1.20	1.22	1.43	16.8%	-1.4%
Colombia	6.35	7.12	10.96	12.07	11.14	11.41	11.90	11.90	0.0%	3.4%
Cuba	0.53	0.69	0.99	1.15	1.10	0.97	0.90	0.90	0.0%	2.8%
Ecuador	0.00	0.32	0.49	0.65	0.70	0.63	0.55	0.58	5.7%	
Mexico	38.83	44.73	49.52	39.97	35.39	30.90	29.97	26.46	-11.7%	-2.0%
Peru	0.57	1.89	8.87	14.76	16.34	14.54	14.29	15.51	8.6%	18.9%
Trinidad and Tobago	14.18	30.82	41.67	37.20	32.63	32.49	35.00	35.73	2.1%	5.0%
United States	519.80	490.27	575.44	740.45	729.57	746.27	836.19	913.43	9.2%	3.0%
Venezuela	25.41	22.53	22.28	23.24	24.78	24.30	21.19	17.52	-17.4%	-1.9%
Others Americas	0.04	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.0%	-4.8%

^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a united gross calorific value of 40 MJ/cm.

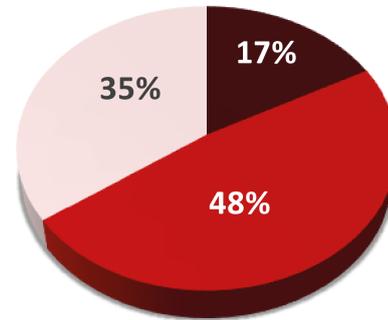
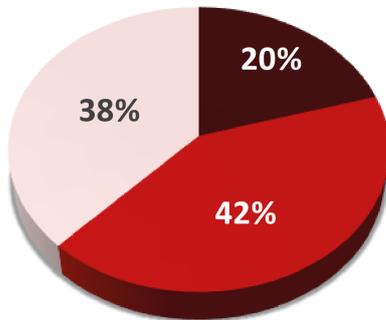
Cluster of Companies(*)

2000

2019

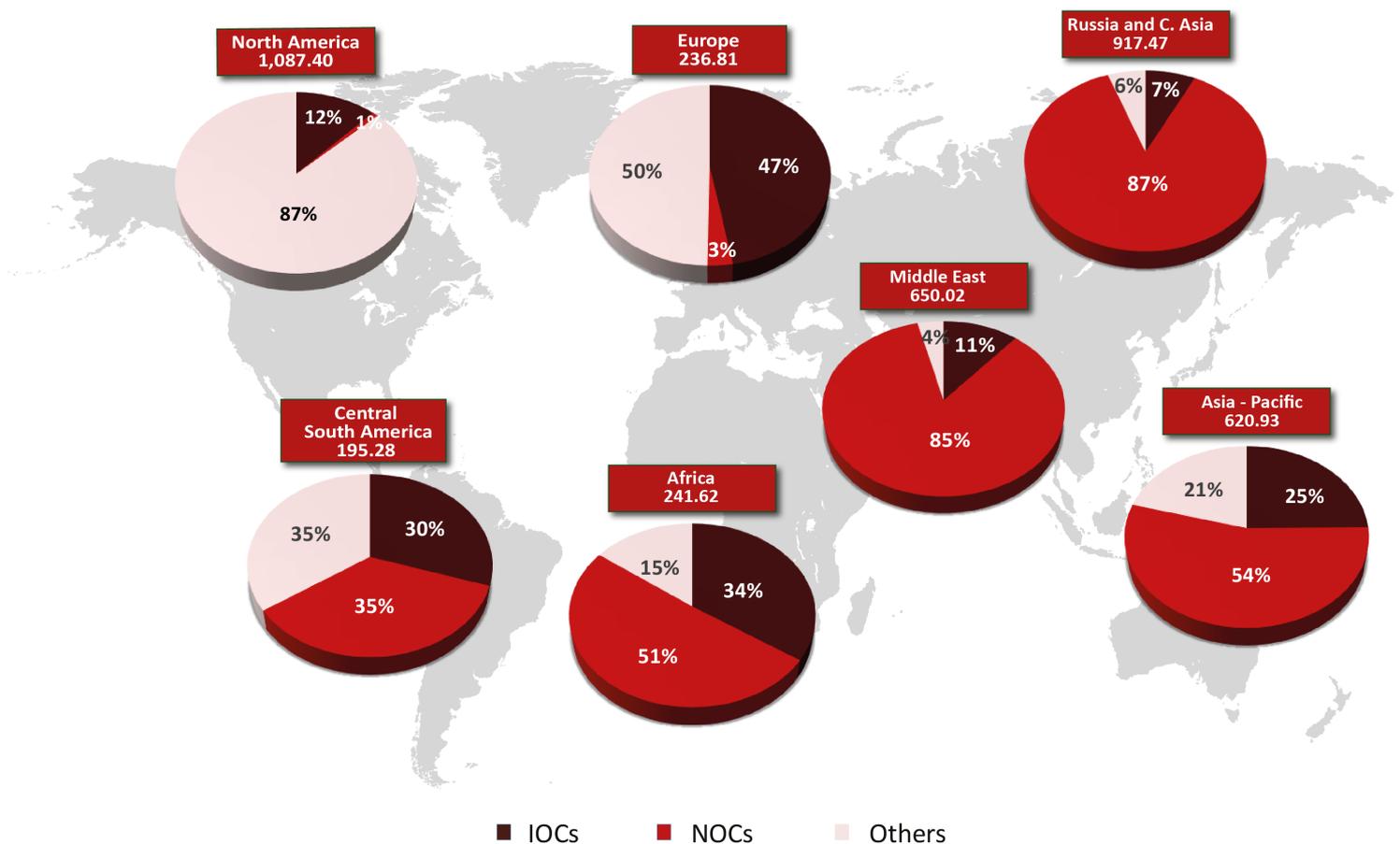
World: 2,401.00 billion cubic metres

World: 3,949.53 billion cubic metres



2019

(billion cubic metres)



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

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

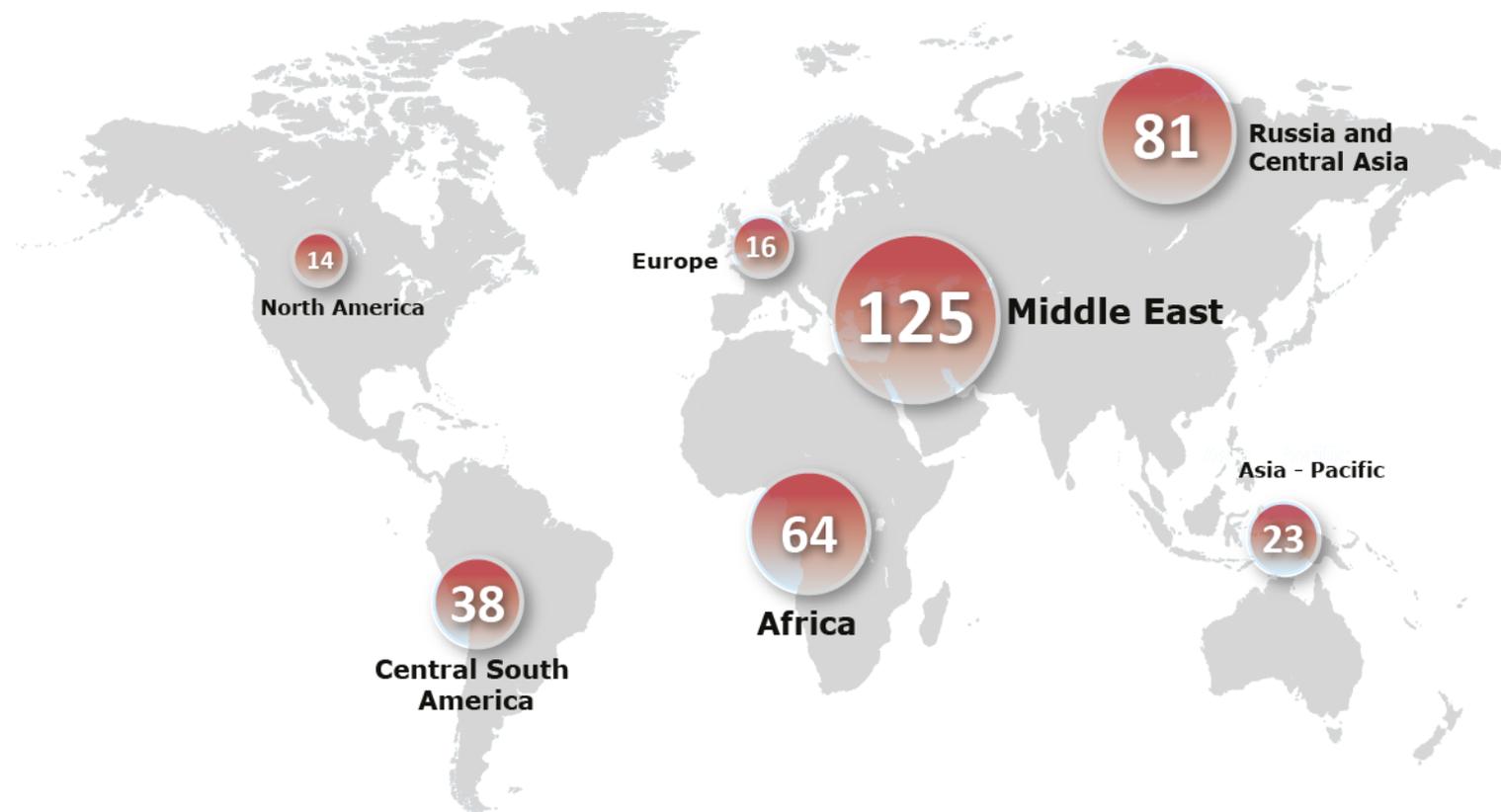
Areas and Aggregates^(*)

years

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	28	22	19	19	18	17	16	16
Russia and Central Asia	76	69	78	94	92	87	82	81
Middle East	313	246	172	138	135	130	127	125
Africa	102	77	72	74	72	67	64	64
Asia - Pacific	41	36	33	30	28	26	25	23
Americas	17	17	20	17	17	20	19	18
- North America	10	11	15	12	12	16	15	14
- Central South America	55	40	38	37	38	38	38	38
World	65	63	62	60	59	58	55	54
European Union	16	13	12	13	11	11	7	7
MENA	226	181	142	123	118	114	110	109
OECD	7	6	4	3	3	3	2	2
NON OECD	111	98	93	92	91	89	86	85
OPEC	218	170	159	137	132	125	123	123
NON OPEC	46	46	46	46	46	45	43	41

Reserves/Production Ratio (2019)

World: 54 years

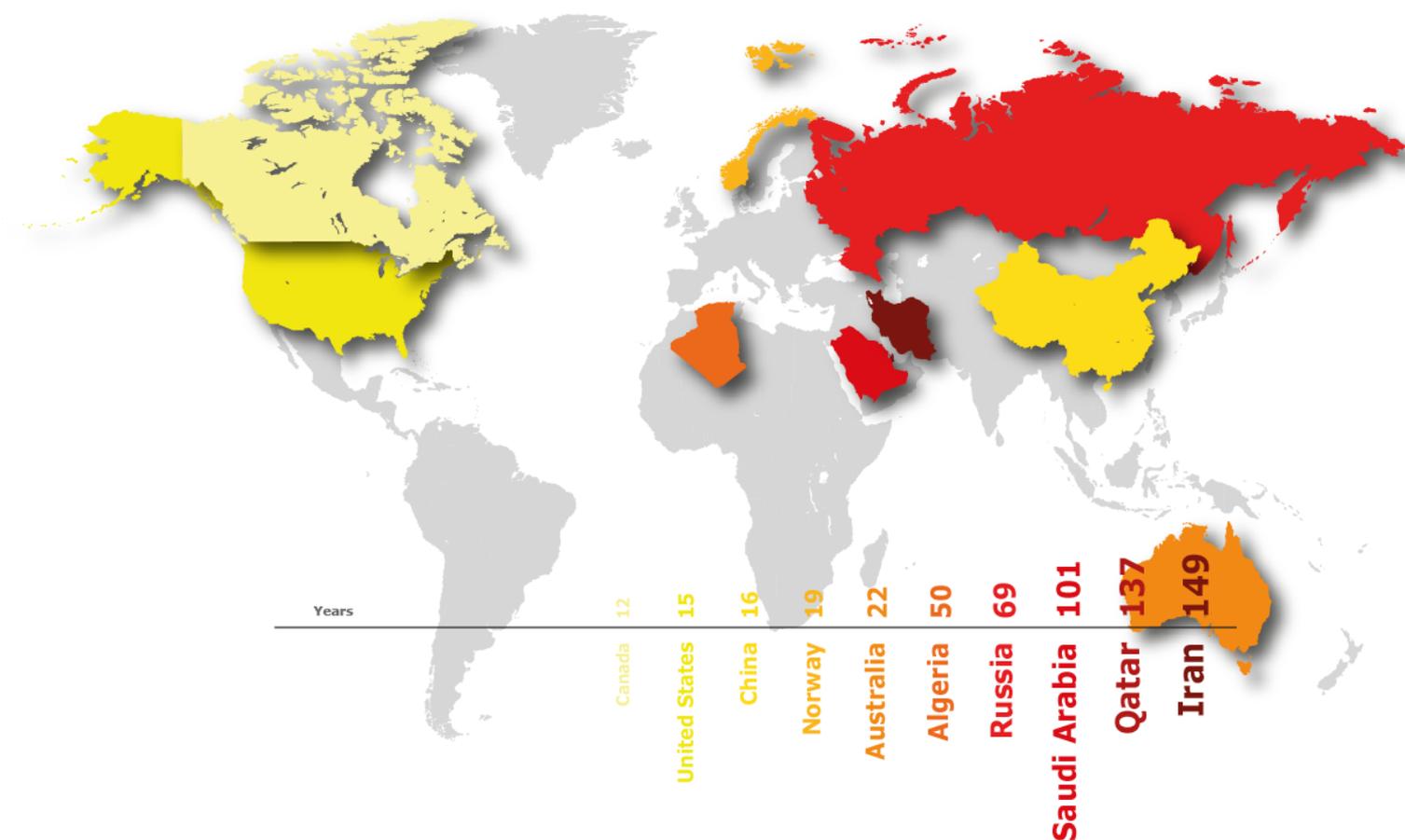


^(*) Data source: Eni's calculations on Enerdata *Global Energy & CO₂ Data*, IEA (2020) *Extended Balances* and other official data sources. All rights reserved.

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

	2000	2005	2010	2015	2016	2017	2018	2019
Iran	459	284	234	185	172	159	153	149
Qatar	570	553	202	142	139	138	139	137
Saudi Arabia	176	129	115	104	100	96	99	101
Russia	80	75	73	82	81	75	70	69
Algeria	56	51	54	54	48	47	47	50
Australia	66	67	73	47	40	31	27	22
Norway	71	36	25	21	20	18	18	19
China	48	35	24	21	21	19	18	16
United States	10	12	15	12	12	17	16	15
Canada	10	9	13	13	12	12	11	12

The World Top 10 (2019)



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

Countries^(*)								
(years)								
	2000	2005	2010	2015	2016	2017	2018	2019
Europe	28	22	19	19	18	17	16	16
Albania	57	29	7	3	2	2	27	27
Austria	14	14	9	7	7	6	7	7
Belarus	9	5	6	3	3	3	3	3
Bulgaria	419	7	73	45	48	55	127	109
Croatia	18	14	10	7	6	6	5	6
Czech Republic	20	17	13	14	16	15	16	17
Denmark	17	11	12	17	16	14	16	21
France	5	7	7	391	416	529	965	521
Germany	14	11	7	6	6	5	5	4
Greece	20	47	113	183	90	95	68	90
Hungary	11	8	5	5	4	4	4	3
Ireland	31	44	92	229	10	9	9	11
Italy (**)	13	10	8	8	7	8	9	10
Netherlands	27	22	16	18	17	18	6	5
Norway	71	36	25	21	20	18	18	19
Poland	31	23	17	14	14	14	18	21
Romania	16	13	11	10	11	9	9	8
Serbia and Montenegro	34	36	23	12	12	12	12	12
Slovakia	44	39	51	51	51	32	49	36
Slovenia	0	0	143	333	201	0	0	0
Spain	30	20	56	55	61	122	38	24
Turkey	7	9	9	17	18	18	15	14
Ukraine	60	57	54	51	49	47	47	51
United Kingdom	11	8	9	8	7	6	6	6
	2000	2005	2010	2015	2016	2017	2018	2019
Russia and Central Asia	76	69	78	94	92	87	82	81
Russia	80	75	73	82	81	75	70	69
Azerbaijan	94	92	32	35	36	60	77	80
Georgia	15	56	159	46	79	60	50	53
Kazakhstan	157	75	49	67	59	50	47	48
Kyrgyzstan	32	41	45	17	19	21	20	23
Tajikistan	27	39	46	128	164	443	826	1,068
Turkmenistan	59	44	264	246	258	256	244	237
Uzbekistan	32	30	27	31	29	29	26	27
	2000	2005	2010	2015	2016	2017	2018	2019
Middle East	313	246	172	138	135	130	127	125
Bahrain	14	11	9	12	16	15	15	12
Iran	459	284	234	185	172	159	153	149
Iraq	1,039	1,833	648	478	526	454	332	325
Israel	4,931	29	69	30	61	60	58	63
Jordan	28	29	38	51	60	62	66	66
Kuwait	171	135	160	111	109	110	106	96
Oman	82	32	19	21	21	21	18	17
Qatar	570	553	202	142	139	138	139	137
Saudi Arabia	176	129	115	104	100	96	99	101
Syria	45	50	34	70	81	82	82	86
United Arab Emirates	169	130	126	107	106	106	105	104
Yemen			78	168	956	1,593	4,779	4,781

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

(**) The original data are from Italian Ministry for Economic Development and IEA (2020) *Extended Balances*. All rights reserved.

Countries^(*) (years)

	2000	2005	2010	2015	2016	2017	2018	2019
Africa	102	77	72	74	72	67	64	64
Algeria	56	51	54	54	48	47	47	50
Angola	497	437	391	432	271	77	65	53
Cameroon			514	319	294	263	98	66
Congo		5,836	1,856	571	499	474	474	466
Côte d'Ivoire	19	21	18	11	11	9	9	8
Egypt	85	39	41	57	55	44	37	35
Equatorial Guinea	596	27	13	9	8	7	6	6
Gabon	278	211	89	48	49	56	58	66
Ghana				39	44	65	65	50
Libya	235	139	94	102	102	111	114	100
Morocco	68	76	57	13	14	14	13	11
Mozambique		28	24	16	15	39	39	39
Nigeria	347	224	167	127	143	131	128	129
Senegal		662	402	85	91	84	1,730	4,201
South Africa	10	14	8	2	2	3	2	2
Tanzania		72	49	44	46	53	55	54
Tunisia	36	16	18	22	25	26	27	31
	2000	2005	2010	2015	2016	2017	2018	2019
Asia - Pacific	41	36	33	30	28	26	25	23
Australia	66	67	73	47	40	31	27	22
Bangladesh	36	32	18	16	14	13	12	12
Brunei	33	29	25	24	24	21	20	19
China	48	35	24	21	21	19	18	16
India	28	36	23	41	41	42	43	44
Indonesia	37	35	35	38	38	38	36	39
Japan	15	12	10	11	10	9	10	9
Malaysia	44	36	39	42	37	36	33	31
Myanmar	48	40	44	16	15	14	14	14
New Zealand	10	17	12	12	10	11	12	12
Pakistan	35	24	20	17	19	23	23	21
Philippines		26	19	16	13	11	9	8
South Korea		6	5	15	19	8	10	12
Taiwan	8	9	15	9	10	12	16	18
Thailand	20	14	10	7	7	7	6	6
Vietnam	131	32	24	20	20	22	21	20
	2000	2005	2010	2015	2016	2017	2018	2019
Americas	17	17	20	17	17	20	19	18
Argentina	19	9	9	9	8	9	9	8
Bolivia	197	60	20	14	15	15	11	13
Brazil	30	28	28	18	16	14	15	14
Canada	10	9	13	13	12	12	11	12
Chile	9	7	5	6	4	4	4	3
Colombia	20	16	14	10	10	10	9	8
Cuba	34	25	14	8	7	8	9	9
Ecuador		28	14	17	16	17	20	19
Mexico	22	9	7	6	6	6	6	7
Peru	427	179	40	27	28	25	21	19
Trinidad and Tobago	39	17	9	8	9	9	9	8
United States	10	12	15	12	12	17	16	15
Venezuela	163	192	248	245	232	235	268	324

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

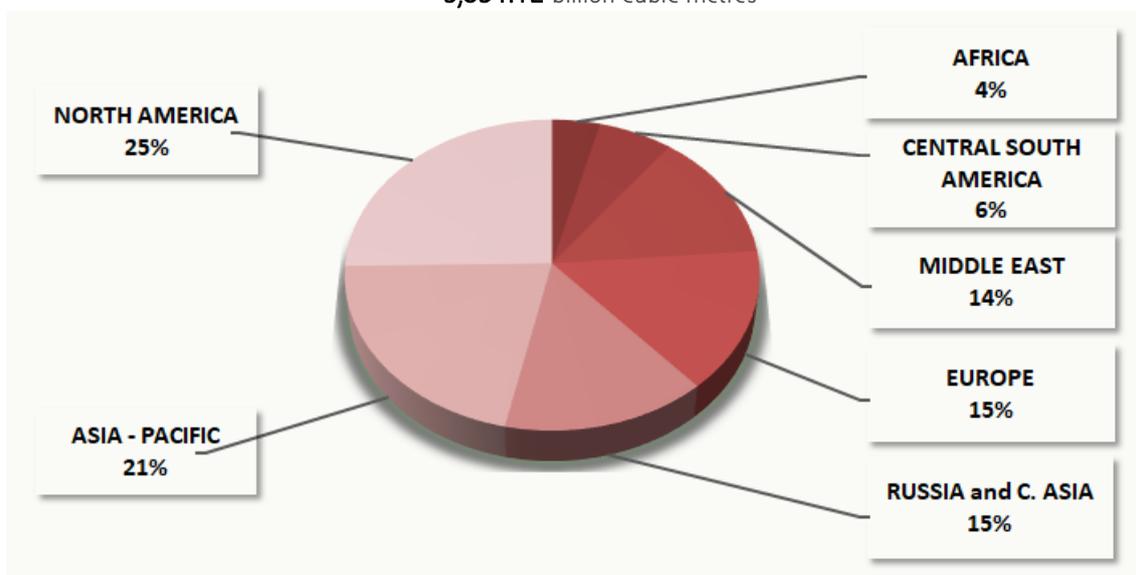
Areas and Aggregates^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	576.42	653.68	658.44	526.10	552.30	575.66	568.47	569.62	0.2%	-0.1%
Russia and Central Asia	449.34	498.75	554.48	516.21	530.33	548.02	589.37	574.39	-2.5%	1.3%
Middle East	169.13	248.61	361.50	455.40	474.85	494.84	508.25	518.18	2.0%	6.1%
Africa	54.89	86.89	104.06	128.27	134.81	145.61	155.01	154.52	-0.3%	5.6%
Asia - Pacific	298.90	396.99	561.83	680.83	701.87	732.31	788.01	821.62	4.3%	5.5%
Americas	860.17	859.78	941.60	1,099.29	1,115.04	1,107.38	1,183.95	1,212.80	2.4%	1.8%
- North America	723.38	684.28	734.75	854.21	873.91	869.69	947.94	973.46	2.7%	1.6%
- Central South America	136.79	175.50	206.84	245.07	241.13	237.69	236.02	239.34	1.4%	3.0%
World	2,408.84	2,744.70	3,181.91	3,406.09	3,509.21	3,603.82	3,793.06	3,851.12	1.5%	2.5%
European Union	460.54	517.68	520.56	416.21	444.64	462.79	456.28	468.99	2.8%	0.1%
MENA	213.55	316.92	443.55	553.22	580.88	610.17	630.36	640.29	1.6%	5.9%
OECD	1,356.13	1,417.11	1,538.78	1,603.30	1,653.64	1,670.46	1,744.43	1,787.53	2.5%	1.5%
NON OECD	1,052.72	1,327.59	1,643.13	1,802.79	1,855.57	1,933.37	2,048.64	2,063.60	0.7%	3.6%
OPEC	195.44	271.08	360.71	452.16	473.36	491.89	504.84	511.80	1.4%	5.2%
NON OPEC	2,213.40	2,473.62	2,821.20	2,953.93	3,035.85	3,111.94	3,288.23	3,339.33	1.6%	2.2%

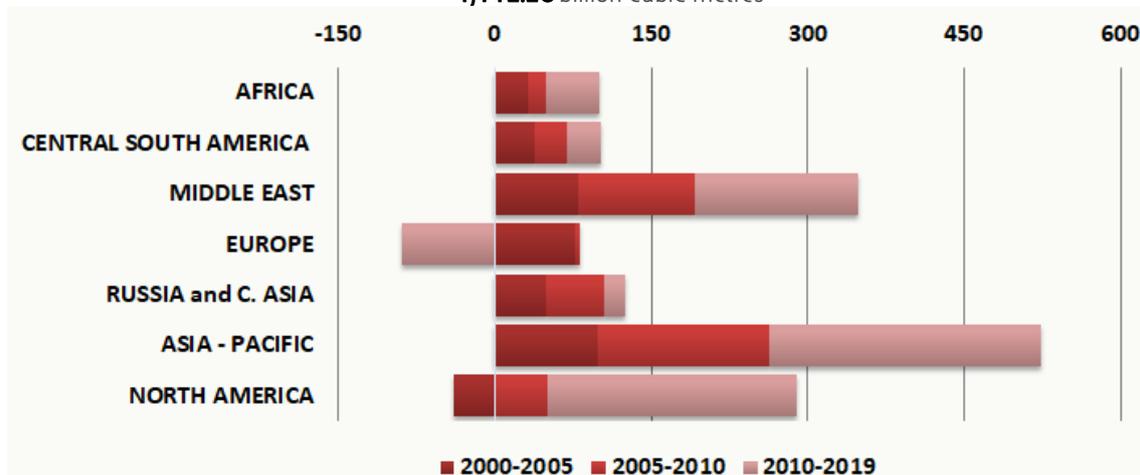
World Natural Gas Consumption (2019)

3,851.12 billion cubic metres



World Natural Gas Consumption Growth (2000-2019)

1,442.28 billion cubic metres



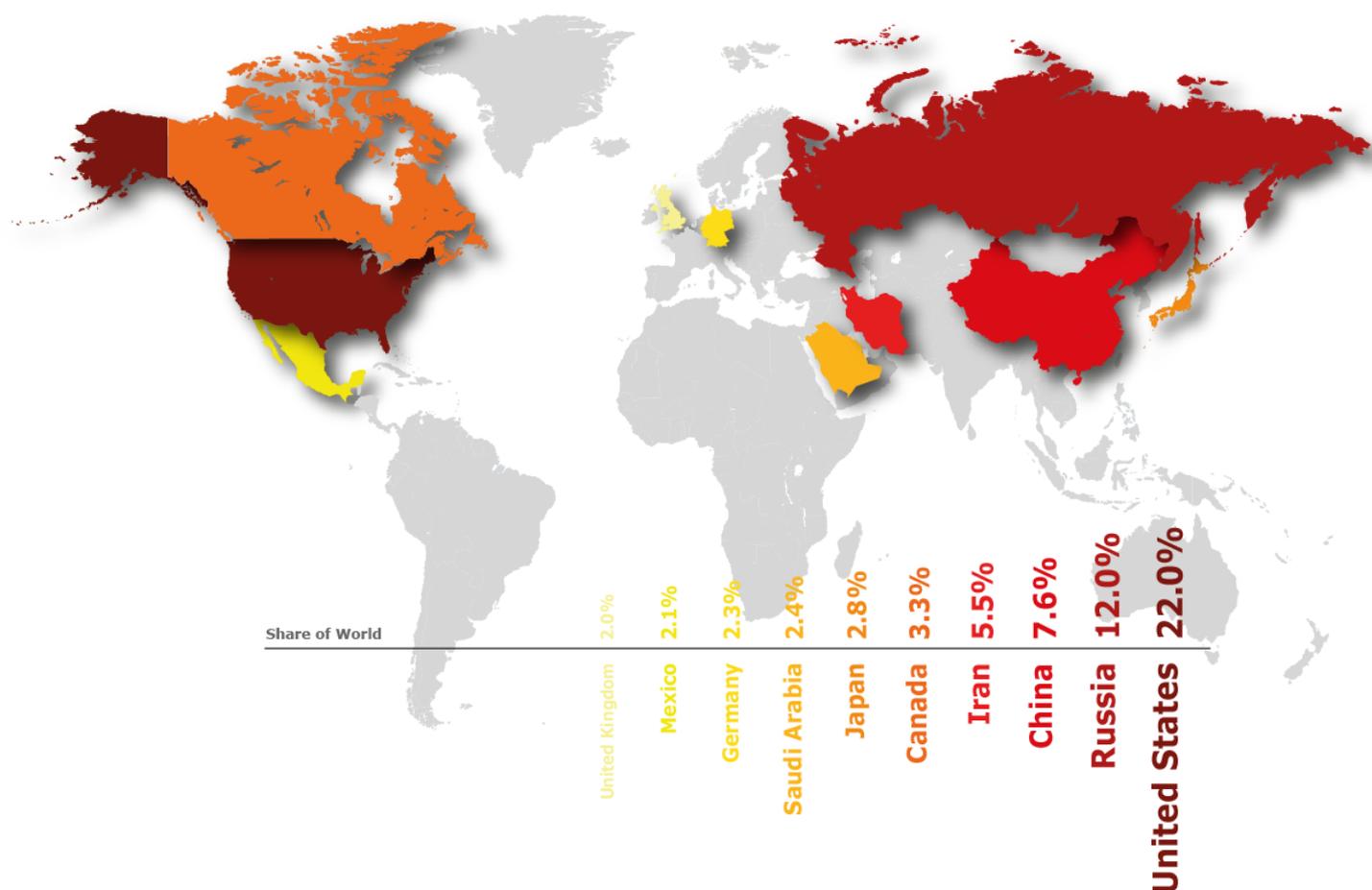
^(*) Data source: Eni's calculations. The original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

The World Top 10 Consumers^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
United States	637.02	589.89	646.72	751.89	759.30	748.90	824.02	847.70	2.9%	1.5%
Russia	371.01	406.67	446.06	423.63	431.84	447.71	481.14	463.09	-3.8%	1.2%
China	24.14	45.11	103.95	184.44	198.61	227.01	267.91	290.99	8.6%	14.0%
Iran	61.21	97.50	142.06	180.63	193.48	203.03	207.90	211.42	1.7%	6.7%
Canada	86.36	94.39	88.03	102.32	114.61	120.80	123.92	125.76	1.5%	2.0%
Japan	76.33	82.17	99.88	116.55	118.27	117.34	112.78	106.97	-5.2%	1.8%
Saudi Arabia	35.80	53.46	69.66	82.89	86.25	90.72	92.00	93.24	1.3%	5.2%
Germany	83.57	90.46	88.28	75.77	81.79	87.62	85.54	88.87	3.9%	0.3%
Mexico	41.27	53.62	63.08	75.20	76.97	72.80	75.81	80.97	6.8%	3.6%
United Kingdom	101.65	99.40	98.64	71.97	80.41	78.28	78.91	78.28	-0.8%	-1.4%
The World Top 10	1,518.34	1,612.67	1,846.37	2,065.29	2,141.53	2,194.20	2,349.94	2,387.30	1.6%	2.4%
Rest of the World	890.51	1,132.03	1,335.54	1,340.80	1,367.68	1,409.62	1,443.13	1,463.82	1.4%	2.7%
World	2,408.84	2,744.70	3,181.91	3,406.09	3,509.21	3,603.82	3,793.06	3,851.12	1.5%	2.5%

The World Top 10 (2019)



^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	576.42	653.68	658.44	526.10	552.30	575.66	568.47	569.62	0.2%	-0.1%
Albania	0.01	0.01	0.01	0.03	0.04	0.04	0.04	0.04	-2.0%	6.8%
Austria	7.66	9.40	9.45	7.99	8.28	9.04	8.60	8.92	3.7%	0.8%
Belarus	16.55	19.67	21.06	18.41	18.30	18.73	19.87	19.00	-4.4%	0.7%
Belgium	15.55	17.14	19.48	16.22	16.55	16.82	17.34	17.60	1.5%	0.7%
Bosnia Herzegovina	0.23	0.35	0.23	0.21	0.21	0.23	0.23	0.22	-3.7%	-0.2%
Bulgaria	3.41	3.26	2.68	3.02	3.12	3.21	3.04	2.84	-6.5%	-1.0%
Croatia	2.57	2.76	3.06	2.42	2.52	2.90	2.67	2.80	4.9%	0.4%
Czech Republic	8.72	8.96	9.38	7.54	8.16	8.37	7.93	8.32	5.0%	-0.2%
Denmark	5.17	5.12	5.14	3.32	3.35	3.20	3.11	2.93	-5.9%	-3.0%
Estonia	0.77	0.93	0.65	0.45	0.50	0.47	0.48	0.44	-8.0%	-2.9%
Finland	3.99	4.19	4.46	2.60	2.39	2.25	2.53	2.43	-3.6%	-2.6%
France	41.60	47.71	49.56	40.75	44.53	44.77	42.71	43.48	1.8%	0.2%
Germany	83.57	90.46	88.28	75.77	81.79	87.62	85.54	88.87	3.9%	0.3%
Greece	1.98	2.74	3.76	3.11	4.06	4.89	4.79	5.24	9.4%	5.2%
Hungary	11.23	14.07	11.42	8.71	9.34	9.93	9.62	9.79	1.8%	-0.7%
Ireland	4.00	4.07	5.47	4.37	4.94	5.02	5.22	5.30	1.6%	1.5%
Italy	67.38	82.17	79.15	64.32	67.55	71.58	69.21	70.74	2.2%	0.3%
Latvia	1.27	1.58	1.70	1.28	1.29	1.15	1.36	1.28	-5.6%	0.1%
Lithuania	2.40	2.88	2.90	2.40	2.14	2.23	2.07	2.17	5.0%	-0.5%
Luxembourg	0.78	1.37	1.39	0.89	0.82	0.81	0.80	0.80	0.1%	0.1%
Macedonia	0.06	0.07	0.11	0.13	0.20	0.26	0.24	0.28	16.4%	8.2%
Malta	0.00	0.00	0.00	0.00	0.00	0.28	0.34	0.36	4.5%	
Moldova	2.47	2.78	2.69	2.48	2.50	2.30	2.49	2.55	2.5%	0.2%
Netherlands	40.71	41.08	46.60	33.30	34.93	36.08	35.74	37.24	4.2%	-0.5%
Norway	4.82	4.74	7.34	7.14	6.45	5.35	5.99	5.77	-3.7%	0.9%
Poland	11.58	14.23	14.89	16.02	17.02	17.96	18.75	19.68	5.0%	2.8%
Portugal	2.37	4.36	5.22	4.71	5.03	6.30	5.84	6.14	5.2%	5.2%
Romania	15.91	16.19	12.55	10.37	10.49	11.18	11.45	10.87	-5.0%	-2.0%
Serbia	1.78	2.26	2.16	2.04	2.20	2.46	2.48	2.37	-4.6%	1.5%
Slovakia	6.72	6.84	5.82	4.51	4.53	4.81	4.74	4.52	-4.7%	-2.1%
Slovenia	0.96	1.08	1.00	0.77	0.82	0.86	0.84	0.86	1.5%	-0.6%
Spain	17.70	34.71	36.20	28.54	29.12	31.71	31.50	35.93	14.1%	3.8%
Sweden	0.90	0.98	1.70	0.84	0.95	1.07	1.16	1.16	-0.3%	1.3%
Switzerland	2.83	3.24	3.50	3.32	3.48	3.50	3.32	3.41	2.6%	1.0%
Turkey	14.70	26.51	36.51	45.80	44.50	51.44	47.70	43.04	-9.8%	5.8%
Ukraine	72.42	76.37	64.26	30.33	29.77	28.56	29.83	23.96	-19.7%	-5.7%
United Kingdom	101.65	99.40	98.64	71.97	80.41	78.28	78.91	78.28	-0.8%	-1.4%
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	449.34	498.75	554.48	516.21	530.33	548.02	589.37	574.39	-2.5%	1.3%
Russia	371.01	406.67	446.06	423.63	431.84	447.71	481.14	463.09	-3.8%	1.2%
Armenia	1.30	1.56	1.50	2.25	2.15	2.27	2.38	2.43	2.2%	3.3%
Azerbaijan	5.62	9.42	9.13	11.15	10.93	10.62	10.82	13.48	24.6%	4.7%
Georgia	1.11	1.23	1.18	2.41	2.27	2.39	2.38	2.55	7.1%	4.5%
Kazakhstan	7.65	14.49	25.95	12.34	16.64	16.28	21.65	19.51	-9.9%	5.1%
Kyrgyzstan	0.67	0.72	0.29	0.27	0.28	0.30	0.33	0.31	-3.2%	-3.9%
Tajikistan	0.73	0.62	0.19	0.00	0.00	0.00	0.06	0.14	154.5%	-8.3%
Turkmenistan	12.68	16.58	20.17	24.83	24.83	24.83	24.83	32.61	31.3%	5.1%
Uzbekistan	48.58	47.46	50.01	39.33	41.38	43.63	45.79	40.27	-12.1%	-1.0%
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	169.13	248.61	361.50	455.40	474.85	494.84	508.25	518.18	2.0%	6.1%
Bahrain	7.96	9.71	12.29	14.15	13.99	14.01	14.18	16.11	13.6%	3.8%
Iran	61.21	97.50	142.06	180.63	193.48	203.03	207.90	211.42	1.7%	6.7%
Iraq	2.99	1.73	4.87	6.60	7.26	9.77	15.49	16.66	7.5%	9.5%
Israel	0.01	1.53	5.12	7.01	7.97	8.48	9.19	9.46	3.0%	44.1%
Jordan	0.25	1.61	2.66	2.26	3.94	4.08	4.00	2.16	-46.0%	12.1%
Kuwait	9.12	11.69	13.80	19.85	21.14	21.50	21.58	23.49	8.9%	5.1%
Lebanon	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00		
Oman	6.27	8.65	17.33	24.52	24.52	24.14	26.07	26.46	1.5%	7.9%
Qatar	11.01	16.02	26.03	42.54	41.90	44.26	44.70	45.10	0.9%	7.7%
Saudi Arabia	35.80	53.46	69.66	82.89	86.25	90.72	92.00	93.24	1.3%	5.2%
Syria	5.37	5.75	9.08	4.05	3.53	3.49	3.47	3.33	-4.1%	-2.5%
United Arab Emirates	29.13	40.96	57.39	69.94	70.36	71.06	69.57	70.65	1.5%	4.8%
Yemen	0.00	0.00	0.95	0.96	0.50	0.30	0.10	0.10	0.0%	

^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	54.89	86.89	104.06	128.27	134.81	145.61	155.01	154.52	-0.3%	5.6%
Algeria	19.58	23.87	27.12	40.03	40.31	41.75	45.24	47.14	4.2%	4.7%
Angola	0.54	0.62	0.70	0.73	0.76	0.80	0.82	0.85	3.9%	2.4%
Cameroon	0.00	0.00	0.30	0.48	0.52	0.58	0.76	0.64	-15.1%	
Congo	0.00	0.02	0.10	0.50	0.57	0.60	0.60	0.61	1.6%	
Côte d'Ivoire	1.47	1.46	1.54	1.96	1.97	2.19	2.00	2.30	15.2%	2.4%
Dem. Rep. Congo	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.0%	
Egypt	16.79	34.87	41.65	42.77	48.22	56.84	60.49	59.07	-2.4%	6.8%
Equatorial Guinea	0.01	2.21	2.99	1.77	1.30	1.56	2.13	2.38	11.7%	36.5%
Gabon	0.12	0.14	0.31	0.52	0.52	0.46	0.45	0.39	-12.1%	6.5%
Ghana	0.00	0.00	0.41	1.24	0.72	1.20	1.53	1.76	14.9%	
Libya	4.83	5.54	6.71	7.96	10.23	9.22	8.91	9.53	6.9%	3.6%
Morocco	0.04	0.44	0.66	1.18	1.20	1.19	1.07	1.02	-5.4%	17.9%
Mozambique	0.00	0.02	0.08	0.89	0.78	0.71	0.84	0.75	-10.4%	41.9%
Nigeria	6.70	10.48	10.26	16.49	15.69	16.47	18.40	17.34	-5.8%	5.1%
Senegal	0.00	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.0%	16.8%
South Africa	1.63	3.21	4.51	4.99	5.09	4.92	4.63	4.63	-0.2%	5.7%
Tanzania	0.00	0.39	0.75	0.85	0.81	0.75	0.72	0.72	0.0%	
Tunisia	3.18	3.60	5.91	5.88	6.06	6.32	6.39	5.36	-16.2%	2.8%
Others Africa	0.00	0.00	0.00	0.01	0.03	0.02	0.02	0.02	0.0%	15.7%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific	298.90	396.99	561.83	680.83	701.87	732.31	788.01	821.62	4.3%	5.5%
Australia	22.42	22.06	31.84	38.53	35.60	36.38	37.86	44.58	17.8%	3.7%
Bangladesh	8.58	12.57	19.34	24.58	26.87	26.83	26.76	31.25	16.8%	7.0%
Brunei	2.15	2.14	3.11	2.49	2.71	3.43	3.54	3.81	7.8%	3.1%
China	24.14	45.11	103.95	184.44	198.61	227.01	267.91	290.99	8.6%	14.0%
Hong Kong	2.85	2.55	3.64	3.09	3.17	3.16	3.06	3.16	3.2%	0.5%
India	26.83	37.00	63.27	52.48	55.80	59.34	60.95	63.31	3.9%	4.6%
Indonesia	30.90	34.04	45.15	44.04	45.46	45.06	45.28	44.68	-1.3%	2.0%
Japan	76.33	82.17	99.88	116.55	118.27	117.34	112.78	106.97	-5.2%	1.8%
Malaysia	28.76	37.07	36.28	43.66	41.59	37.46	45.11	46.73	3.6%	2.6%
Myanmar	1.39	2.66	1.49	3.52	4.10	4.23	4.79	3.45	-28.0%	4.9%
New Zealand	5.88	3.75	4.34	4.76	4.90	4.94	4.48	4.65	4.0%	-1.2%
Pakistan	19.38	29.82	31.40	30.89	30.05	30.28	32.92	32.63	-0.9%	2.8%
Philippines	0.01	3.14	3.55	3.34	3.83	3.78	4.22	4.34	2.9%	37.5%
Singapore	1.30	5.83	7.55	9.94	10.19	10.24	10.42	10.38	-0.4%	11.5%
South Korea	19.78	31.84	44.93	45.76	48.05	50.26	55.50	56.67	2.1%	5.7%
Taiwan	6.46	9.31	13.87	18.11	18.93	20.81	21.05	21.08	0.1%	6.4%
Thailand	20.20	30.16	38.34	43.90	42.96	41.88	41.30	42.19	2.2%	4.0%
Vietnam	1.30	5.46	9.45	10.21	10.18	9.08	9.24	9.42	2.0%	11.0%
Others Asia - Pacific	0.23	0.32	0.44	0.56	0.61	0.80	0.84	1.32	56.2%	9.7%

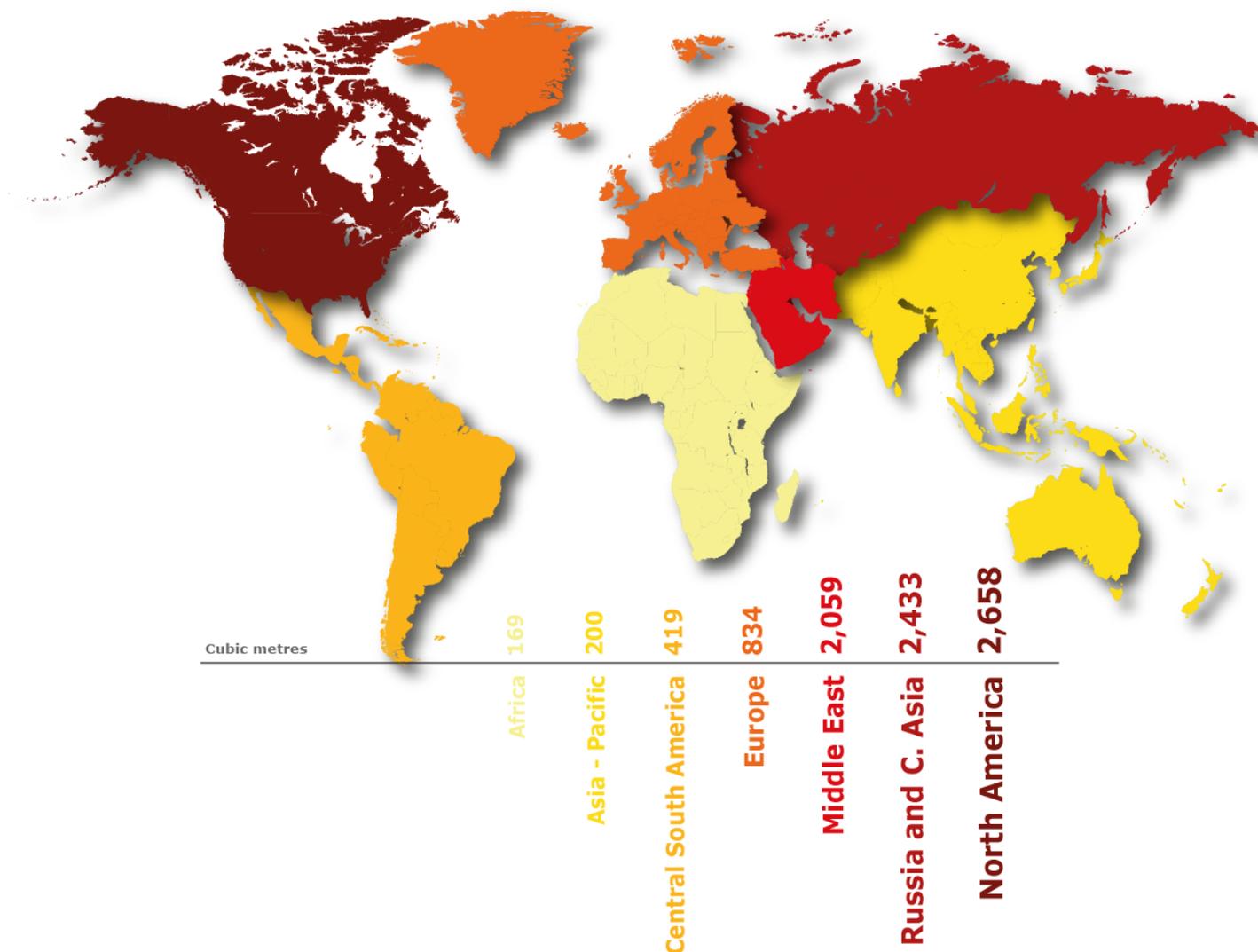
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	860.17	859.78	941.60	1,099.29	1,115.04	1,107.38	1,183.69	1,212.26	2.4%	1.8%
Argentina	35.40	41.46	43.26	49.89	50.47	51.55	50.62	49.67	-1.9%	1.8%
Bolivia	1.38	1.88	3.12	4.18	4.65	4.69	4.75	4.37	-8.1%	6.3%
Brazil	9.46	19.99	27.52	42.09	35.68	37.83	35.65	36.04	1.1%	7.3%
Canada	86.36	94.39	88.03	102.32	114.61	120.80	123.92	125.76	1.5%	2.0%
Chile	6.06	7.91	5.20	4.63	5.06	5.05	5.07	6.42	26.5%	0.3%
Colombia	6.35	7.12	9.57	11.74	11.15	11.42	11.92	12.16	2.1%	3.5%
Cuba	0.53	0.69	0.99	1.15	1.10	0.97	0.90	0.90	0.0%	2.8%
Dominican Republic	0.00	0.20	0.79	1.09	1.03	1.18	1.18	1.47	24.9%	
Ecuador	0.00	0.32	0.49	0.65	0.70	0.63	0.55	0.58	5.7%	
Jamaica	0.00	0.00	0.00	0.00	0.02	0.08	0.09	0.13	40.4%	
Mexico	41.27	53.62	63.08	75.20	76.97	72.80	75.81	80.97	6.8%	3.6%
Peru	0.57	1.89	6.39	9.17	9.65	8.16	8.44	9.21	9.1%	15.7%
Trinidad and Tobago	9.96	17.10	21.35	20.16	18.15	17.57	18.18	17.65	-2.9%	3.1%
United States	637.02	589.89	646.72	751.89	759.30	748.90	824.02	847.70	2.9%	1.5%
Uruguay	0.04	0.10	0.07	0.05	0.06	0.07	0.06	0.08	31.7%	4.7%
Venezuela	25.41	22.53	24.23	23.60	24.78	24.30	21.19	17.52	-17.4%	-1.9%
Others Americas	0.37	0.69	0.77	1.46	1.66	1.38	1.34	1.62	21.0%	8.1%

^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Areas and Aggregates^(*) (cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	901	1,004	993	780	816	848	835	834
Russia and Central Asia	2,068	2,289	2,494	2,244	2,289	2,350	2,511	2,433
Middle East	1,011	1,329	1,700	1,935	1,983	2,032	2,053	2,059
Africa	95	134	142	155	159	167	174	169
Asia - Pacific	88	111	149	172	175	181	193	200
Americas	1,097	1,035	1,076	1,202	1,208	1,190	1,263	1,284
- North America	2,308	2,082	2,136	2,394	2,431	2,403	2,603	2,658
- Central South America	297	374	407	457	438	426	418	419
World	418	448	491	497	507	515	537	540
European Union	949	1,048	1,036	819	873	907	892	916
MENA	687	926	1,165	1,318	1,359	1,403	1,425	1,423
OECD	1,186	1,196	1,253	1,267	1,299	1,305	1,356	1,382
NON OECD	228	269	312	323	328	338	354	353
OPEC	595	739	875	976	1,000	1,019	1,025	1,019
NON OPEC	407	430	464	462	471	478	500	503

Per Capita Consumption (2019)

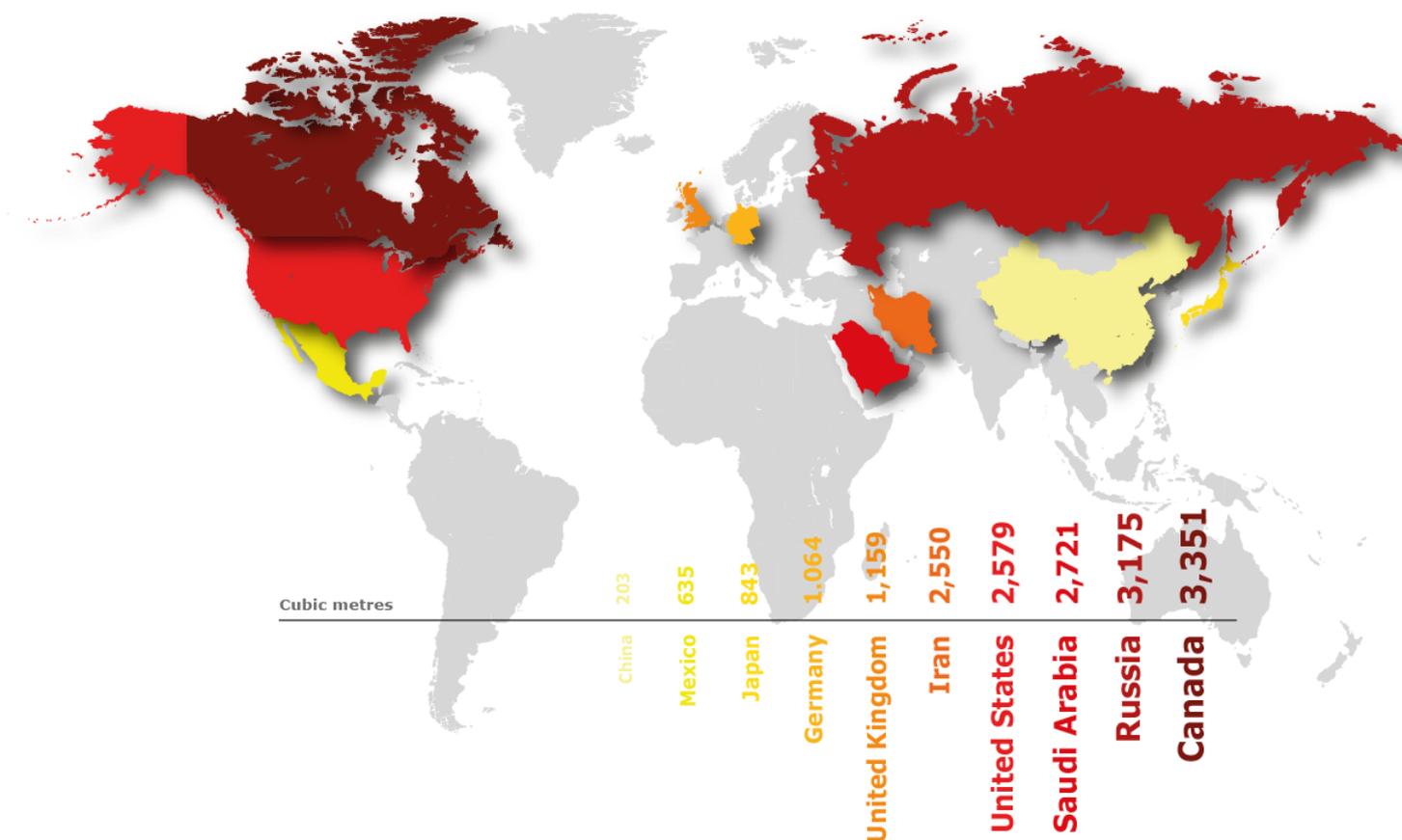


^(*) Data source: Eni calculations on IEA (2020) *Extended Balances* and IHS Global Insight data. All right reserved.

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

	2000	2005	2010	2015	2016	2017	2018	2019
Canada	2,818	2,931	2,592	2,868	3,179	3,310	3,350	3,351
Russia	2,534	2,831	3,109	2,922	2,973	3,076	3,302	3,175
Saudi Arabia	1,732	2,245	2,540	2,613	2,659	2,741	2,730	2,721
United States	2,253	1,990	2,086	2,341	2,347	2,301	2,519	2,579
Iran	933	1,398	1,926	2,301	2,432	2,517	2,542	2,550
United Kingdom	1,725	1,649	1,554	1,093	1,213	1,173	1,175	1,159
Germany	1,027	1,109	1,092	926	995	1,060	1,029	1,064
Japan	599	640	777	911	926	920	887	843
Mexico	417	506	553	617	624	583	601	635
China	19	34	76	131	140	160	188	203

The World Top 10 (2019)



^(*) Data source: Eni calculations on IEA (2020) *Extended Balances* and IHS Global Insight data. All right reserved.

Countries^(*)

(cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	901	1,004	993	780	816	848	835	834
Albania	3	3	5	11	14	15	13	13
Austria	949	1,139	1,123	921	946	1,025	967	996
Belarus	1,676	2,057	2,235	1,951	1,938	1,982	2,102	2,010
Belgium	1,512	1,626	1,780	1,437	1,457	1,473	1,510	1,525
Bosnia Herzegovina	62	93	63	60	63	69	70	68
Bulgaria	426	424	360	419	437	452	431	406
Croatia	580	630	707	572	600	693	641	677
Czech Republic	848	873	891	711	768	787	744	779
Denmark	969	944	926	583	586	557	541	507
Estonia	550	686	491	345	378	358	364	334
Finland	769	798	832	474	436	408	457	440
France	705	781	788	632	689	690	657	668
Germany	1,027	1,109	1,092	926	995	1,060	1,029	1,064
Greece	179	244	346	292	382	463	455	500
Hungary	1,099	1,395	1,150	891	957	1,021	991	1,011
Ireland	1,056	982	1,201	940	1,052	1,055	1,083	1,086
Italy	1,189	1,410	1,334	1,062	1,113	1,180	1,142	1,168
Latvia	533	701	802	639	656	592	705	673
Lithuania	685	861	928	820	741	785	737	786
Luxembourg	1,790	2,988	2,740	1,578	1,424	1,362	1,316	1,292
Macedonia	31	36	53	63	98	126	117	136
Malta	0	0	0	0	0	611	716	731
Moldova	679	772	755	697	703	647	701	719
Netherlands	2,556	2,510	2,793	1,966	2,057	2,120	2,095	2,178
Norway	1,071	1,022	1,503	1,374	1,228	1,009	1,122	1,072
Poland	300	371	389	421	448	473	495	520
Portugal	230	415	493	454	487	612	570	601
Romania	719	756	613	520	530	569	587	562
Serbia	237	304	296	287	312	351	355	341
Slovakia	1,244	1,267	1,077	830	832	883	870	828
Slovenia	483	541	491	373	395	414	406	412
Spain	434	788	771	611	624	680	675	769
Sweden	102	108	182	86	97	108	117	116
Switzerland	396	438	448	400	416	414	389	396
Turkey	232	390	505	583	557	634	579	516
Ukraine	1,486	1,632	1,408	677	667	643	675	545
United Kingdom	1,725	1,649	1,554	1,093	1,213	1,173	1,175	1,159
	2000	2005	2010	2015	2016	2017	2018	2019
Russia and Central Asia	2,068	2,289	2,494	2,244	2,289	2,350	2,511	2,433
Russia	2,534	2,831	3,109	2,922	2,973	3,076	3,302	3,175
Armenia	424	522	522	769	733	770	805	821
Azerbaijan	691	1,103	1,011	1,158	1,123	1,078	1,087	1,342
Georgia	254	293	288	600	565	596	594	637
Kazakhstan	512	941	1,597	702	933	901	1,182	1,052
Kyrgyzstan	136	141	53	45	46	48	52	49
Tajikistan	117	92	25	0	0	0	6	15
Turkmenistan	2,808	3,486	3,964	4,462	4,385	4,313	4,244	5,488
Uzbekistan	1,961	1,796	1,754	1,272	1,316	1,365	1,410	1,221

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Countries^(*)

(cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019
Middle East	1,011	1,329	1,700	1,935	1,983	2,032	2,053	2,059
Bahrain	11,980	10,926	9,906	10,311	9,814	9,377	9,032	9,814
Iran	933	1,398	1,926	2,301	2,432	2,517	2,542	2,550
Iraq	127	64	164	186	198	260	403	424
Israel	2	234	697	878	983	1,029	1,096	1,111
Jordan	48	279	367	244	413	417	401	214
Kuwait	4,459	5,147	4,611	5,176	5,342	5,301	5,216	5,584
Lebanon	0	0	50	0	0	0	0	0
Oman	2,764	3,446	5,699	5,746	5,475	5,173	5,398	5,319
Qatar	18,590	18,508	14,021	16,580	15,784	16,243	16,070	15,926
Saudi Arabia	1,732	2,245	2,540	2,613	2,659	2,741	2,730	2,721
Syria	327	313	425	225	202	204	205	195
United Arab Emirates	9,296	8,928	6,713	7,550	7,517	7,490	7,224	7,230
Yemen	0	0	41	36	18	11	4	3

	2000	2005	2010	2015	2016	2017	2018	2019
Africa	95	134	142	155	159	167	174	169
Algeria	631	720	754	1,008	994	1,009	1,071	1,095
Angola	33	32	30	26	26	27	27	27
Cameroon	0	0	15	21	22	23	30	25
Congo	0	6	23	103	115	118	115	113
Côte d'Ivoire	90	79	75	84	83	90	80	89
Egypt	244	462	503	463	511	589	615	588
Equatorial Guinea	5	1,606	1,922	1,009	723	851	1,138	1,243
Gabon	97	103	202	296	290	251	239	205
Ghana	0	0	17	45	25	41	51	58
Libya	901	955	1,082	1,241	1,576	1,402	1,334	1,406
Morocco	2	14	20	34	34	34	30	28
Mozambique	0	1	3	33	28	25	28	25
Nigeria	55	76	65	91	84	86	94	86
Senegal	0	1	2	2	1	2	1	1
South Africa	36	67	88	90	91	86	80	79
Tanzania	0	10	17	17	15	14	13	12
Tunisia	327	356	556	526	536	553	553	458
Others Africa	0	0	0	0	0	0	0	0

^(*) Data source: Eni calculations on IEA (2020) *Extended Balances* and IHS Global Insight data. All right reserved.

Countries^(*)

(cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019
Asia - Pacific	88	111	149	172	175	181	193	200
Australia	1,180	1,093	1,437	1,610	1,467	1,480	1,520	1,769
Bangladesh	67	90	131	157	170	168	166	192
Brunei	6,460	5,855	8,012	5,991	6,465	8,073	8,247	8,804
China	19	34	76	131	140	160	188	203
Hong Kong	432	376	523	429	437	432	415	425
India	25	32	51	40	42	44	45	46
Indonesia	146	150	187	170	174	170	169	165
Japan	599	640	777	911	926	920	887	843
Malaysia	1,240	1,443	1,286	1,442	1,355	1,204	1,431	1,463
Myanmar	30	54	30	67	77	79	89	64
New Zealand	1,525	908	992	1,031	1,051	1,050	944	973
Pakistan	136	186	175	155	148	146	155	151
Philippines	0	36	38	33	37	36	40	40
Singapore	323	1,367	1,472	1,777	1,802	1,794	1,811	1,789
South Korea	418	654	907	900	942	984	1,085	1,106
Taiwan	296	412	601	771	803	881	888	887
Thailand	321	461	571	639	623	605	595	606
Vietnam	16	65	107	110	109	96	97	98
Others Asia - Pacific	7	9	11	12	12	16	16	25

	2000	2005	2010	2015	2016	2017	2018	2019
Americas	1,097	1,035	1,076	1,202	1,208	1,190	1,263	1,283
Argentina	960	1,066	1,058	1,158	1,160	1,173	1,141	1,109
Bolivia	164	204	311	385	422	419	418	379
Brazil	54	107	141	206	173	182	170	171
Canada	2,818	2,931	2,592	2,868	3,179	3,310	3,350	3,351
Chile	395	489	305	258	278	274	271	339
Colombia	160	167	212	247	231	233	240	242
Cuba	48	61	88	102	97	86	79	79
Dominican Republic	0	22	81	106	99	112	111	137
Ecuador	0	23	33	40	43	38	32	33
Jamaica	0	0	0	0	6	28	32	45
Mexico	417	506	553	617	624	583	601	635
Peru	22	68	220	301	312	260	264	283
Trinidad and Tobago	7,861	13,188	16,074	14,710	13,176	12,696	13,081	12,652
United States	2,253	1,990	2,086	2,341	2,347	2,301	2,519	2,579
Uruguay	11	31	22	16	18	20	19	24
Venezuela	1,050	852	852	784	830	827	734	614
Others Americas	56	102	113	237	273	230	228	280

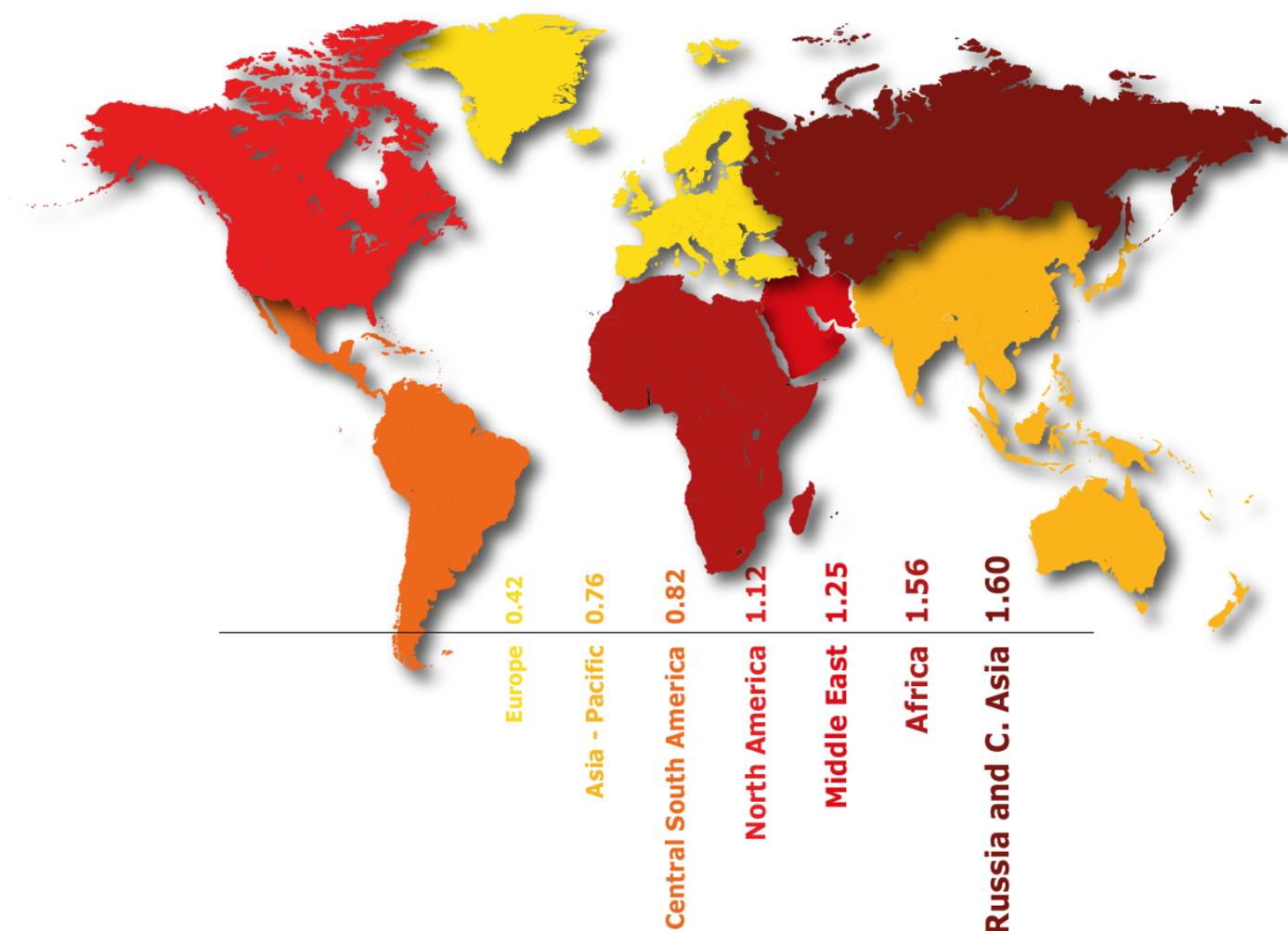
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Natural Gas - Supply and Demand Production/Consumption Ratio

Areas and Aggregates^(*)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	0.55	0.50	0.48	0.50	0.48	0.46	0.45	0.42
Russia and Central Asia	1.47	1.49	1.40	1.52	1.52	1.57	1.53	1.60
Middle East	1.13	1.19	1.27	1.26	1.26	1.25	1.25	1.25
Africa	2.21	2.12	1.95	1.53	1.55	1.56	1.55	1.56
Asia - Pacific	0.94	0.91	0.84	0.75	0.75	0.75	0.74	0.76
Americas	0.97	0.99	0.99	1.02	1.00	1.02	1.03	1.06
- North America	0.96	0.98	0.99	1.06	1.03	1.06	1.07	1.12
- Central South America	1.01	1.02	1.00	0.87	0.86	0.86	0.85	0.82
World	1.00	1.01	0.99	1.01	1.00	1.01	1.01	1.03
European Union	0.53	0.43	0.36	0.30	0.28	0.26	0.24	0.22
MENA	1.39	1.41	1.39	1.29	1.29	1.28	1.28	1.28
OECD	0.78	0.75	0.73	0.78	0.77	0.78	0.80	0.83
NON OECD	1.27	1.28	1.24	1.22	1.21	1.21	1.18	1.20
OPEC	1.36	1.33	1.21	1.14	1.15	1.17	1.17	1.15
NON OPEC	0.96	0.97	0.96	0.99	0.98	0.99	0.99	1.01

Production/Consumption Ratio (2019)



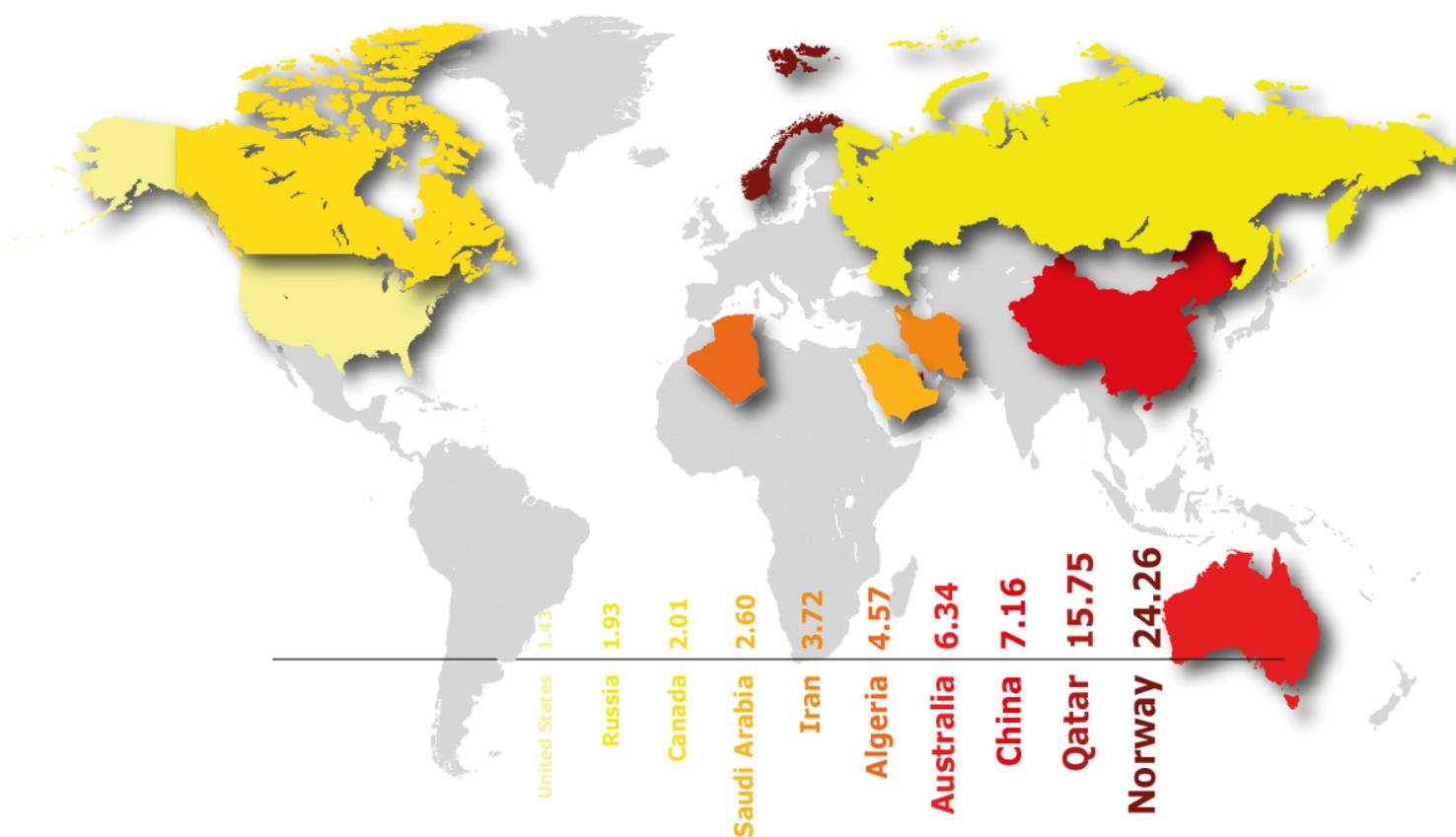
^(*) Data source: Eni calculations on IEA (2020) *Extended Balances* data. All right reserved.

Natural Gas - Supply and Demand Production/Consumption Ratio

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

	2000	2005	2010	2015	2016	2017	2018	2019
Norway	11.17	18.11	22.85	24.81	24.69	26.23	25.68	24.26
Qatar	2.30	4.21	11.33	15.50	15.70	15.65	15.56	15.75
China	1.10	1.99	3.86	5.43	5.52	5.97	6.52	7.16
Australia	1.48	1.63	2.31	3.02	3.59	4.58	5.25	6.34
Algeria	4.15	4.49	4.27	4.24	4.78	4.86	4.91	4.57
Iran	0.95	1.59	2.31	2.96	3.21	3.47	3.62	3.72
Saudi Arabia	1.00	1.49	1.95	2.32	2.41	2.53	2.57	2.60
Canada	2.00	2.08	1.74	1.87	2.00	2.05	2.08	2.01
Russia	1.48	1.62	1.69	1.64	1.69	1.82	1.90	1.93
United States	0.82	0.77	0.90	1.16	1.15	1.17	1.31	1.43

The World Top 10 (2019)



(*) Data source: Eni calculations on IEA (2020) *Extended Balances* data. All right reserved.

Natural Gas - Supply and Demand Production/Consumption Ratio

Countries^(*)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	0.55	0.50	0.48	0.50	0.48	0.46	0.45	0.42
Albania	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Austria	0.24	0.16	0.17	0.15	0.14	0.13	0.12	0.10
Belarus	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bulgaria	0.00	0.14	0.03	0.03	0.03	0.02	0.01	0.01
Croatia	0.61	0.79	0.84	0.71	0.63	0.49	0.44	0.35
Czech Republic	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02
Denmark	1.67	2.13	1.66	1.45	1.41	1.58	1.39	1.09
France	0.04	0.02	0.02	0.00	0.00	0.00	0.00	0.00
Germany	0.22	0.18	0.15	0.10	0.09	0.08	0.06	0.06
Greece	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Hungary	0.26	0.19	0.23	0.18	0.18	0.17	0.18	0.16
Ireland	0.28	0.14	0.05	0.03	0.59	0.66	0.61	0.47
Italy	0.24	0.14	0.10	0.10	0.08	0.07	0.07	0.06
Netherlands	1.51	1.59	1.62	1.38	1.27	1.07	0.90	0.75
Norway	11.17	18.43	15.00	16.75	18.46	23.65	20.66	20.28
Poland	0.33	0.32	0.29	0.27	0.24	0.23	0.22	0.20
Romania	0.80	0.70	0.80	0.99	0.86	0.89	0.86	0.89
Serbia	0.41	0.12	0.17	0.26	0.22	0.18	0.17	0.17
Slovakia	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.03
Slovenia	0.01	0.00	0.01	0.00	0.01	0.01	0.02	0.01
Spain	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turkey	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01
Ukraine	0.24	0.24	0.28	0.57	0.59	0.63	0.64	0.74
United Kingdom	1.12	0.93	0.59	0.56	0.52	0.54	0.51	0.51

	2000	2005	2010	2015	2016	2017	2018	2019
Russia and Central Asia	1.47	1.49	1.40	1.52	1.52	1.57	1.53	1.60
Russia	1.48	1.48	1.41	1.44	1.45	1.51	1.47	1.55
Azerbaijan	0.95	0.57	1.78	1.69	1.67	1.67	1.73	1.78
Georgia	0.06	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Kazakhstan	1.16	1.27	1.10	2.20	1.86	2.23	1.81	1.96
Kyrgyzstan	0.05	0.03	0.08	0.11	0.09	0.08	0.08	0.07
Tajikistan	0.05	0.04	0.12	1.00	1.00	1.00	0.01	0.00
Turkmenistan	3.51	3.60	2.13	3.19	3.04	3.07	3.22	2.52
Uzbekistan	1.10	1.21	1.25	1.31	1.28	1.23	1.27	1.40

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Natural Gas - Supply and Demand Production/Consumption Ratio

Countries(*)

	2000	2005	2010	2015	2016	2017	2018	2019
Middle East	1.13	1.19	1.27	1.26	1.26	1.25	1.25	1.25
Bahrain	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Iran	0.95	1.00	1.00	1.00	1.02	1.05	1.07	1.08
Iraq	1.00	1.00	1.00	1.00	1.00	0.84	0.72	0.69
Israel	1.00	1.00	0.61	0.98	0.96	0.96	0.94	0.92
Jordan	1.00	0.13	0.06	0.05	0.03	0.02	0.02	0.04
Kuwait	1.00	1.00	0.81	0.81	0.78	0.76	0.78	0.79
Oman	1.68	2.41	1.59	1.34	1.37	1.40	1.46	1.47
Qatar	2.30	2.89	4.79	4.01	4.13	3.89	3.83	3.85
Saudi Arabia	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Syria	1.00	1.00	0.93	1.00	1.00	1.00	1.00	1.00
United Arab Emirates	1.23	1.14	0.84	0.81	0.82	0.81	0.83	0.83
Yemen			6.57	2.97	1.00	1.00	1.00	1.00

	2000	2005	2010	2015	2016	2017	2018	2019
Africa	2.21	2.12	1.95	1.53	1.55	1.56	1.55	1.56
Algeria	4.15	3.68	3.09	2.08	2.32	2.28	2.12	1.90
Angola	1.00	1.00	1.00	1.00	2.14	6.90	7.20	7.61
Cameroon			1.00	1.00	1.00	1.00	2.03	3.53
Congo		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
Egypt	1.00	1.42	1.30	0.85	0.84	0.89	0.98	1.08
Equatorial Guinea	4.42	1.51	2.08	3.33	4.55	4.02	3.46	2.78
Gabon	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	0.62
Libya	1.16	1.94	2.38	1.85	1.45	1.47	1.48	1.57
Morocco	1.00	0.09	0.08	0.07	0.06	0.06	0.07	0.09
Mozambique	1.00	104.68	39.54	5.37	6.22	6.78	5.75	6.30
Nigeria	1.77	2.19	3.01	2.52	2.44	2.60	2.41	2.59
Senegal	1.00	1.00	1.02	1.00	1.00	1.00	1.00	1.00
South Africa	1.00	0.65	0.33	0.22	0.20	0.17	0.21	0.24
Tanzania		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tunisia	0.69	0.64	0.61	0.50	0.44	0.39	0.37	0.39
Others Africa	1.00	0.29	0.20	0.70	0.91	0.88	0.88	0.88

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Natural Gas - Supply and Demand Production/Consumption Ratio

Countries ^(*)								
	2000	2005	2010	2015	2016	2017	2018	2019
Asia - Pacific	0.94	0.91	0.84	0.75	0.75	0.75	0.74	0.76
Australia	1.48	1.65	1.62	1.76	2.26	2.82	3.11	3.19
Bangladesh	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.83
Brunei	5.12	5.44	3.84	4.40	3.89	3.38	3.50	3.35
China	1.10	1.06	0.90	0.71	0.67	0.63	0.59	0.59
India	1.00	0.82	0.79	0.58	0.54	0.52	0.51	0.49
Indonesia	2.30	2.24	1.93	1.73	1.65	1.61	1.61	1.51
Japan	0.03	0.04	0.04	0.02	0.02	0.03	0.02	0.03
Malaysia	1.72	1.74	1.64	1.54	1.60	1.74	1.53	1.51
Myanmar	4.32	4.50	7.92	4.87	4.53	4.39	3.78	5.18
New Zealand	1.00	1.00	1.03	0.99	1.00	0.98	0.96	1.00
Pakistan	1.00	1.00	1.00	0.91	0.84	0.73	0.66	0.65
Philippines	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
South Korea	0.00	0.02	0.01	0.00	0.00	0.01	0.01	0.00
Taiwan	0.11	0.05	0.02	0.02	0.01	0.01	0.01	0.01
Thailand	0.90	0.71	0.75	0.68	0.68	0.66	0.64	0.65
Vietnam	1.00	1.28	1.00	1.00	1.00	1.00	1.00	1.00
Others Asia - Pacific	1.00	1.00	13.50	14.33	14.54	10.62	9.57	7.47

	2000	2005	2010	2015	2016	2017	2018	2019
Americas	0.97	0.99	0.99	1.02	1.00	1.02	1.03	1.06
Argentina	1.13	1.12	0.93	0.78	0.79	0.79	0.82	0.87
Bolivia	2.48	6.33	4.60	5.03	4.33	4.17	3.84	3.58
Brazil	0.77	0.55	0.54	0.56	0.67	0.72	0.70	0.73
Canada	2.00	1.91	1.71	1.58	1.51	1.46	1.45	1.38
Chile	0.31	0.24	0.35	0.21	0.23	0.24	0.24	0.22
Colombia	1.00	1.00	1.15	1.03	1.00	1.00	1.00	0.98
Cuba	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
Mexico	0.94	0.83	0.79	0.53	0.46	0.42	0.40	0.33
Peru	1.00	1.00	1.39	1.61	1.69	1.78	1.69	1.68
Trinidad and Tobago	1.42	1.80	1.95	1.85	1.80	1.85	1.93	2.02
United States	0.82	0.83	0.89	0.98	0.96	1.00	1.01	1.08
Venezuela	1.00	1.00	0.92	0.98	1.00	1.00	1.00	1.00
Others Americas	0.10	0.04	0.03	0.01	0.01	0.01	0.01	0.01

^(*) Data source: Eni calculations on IEA (2020) *Extended Balances* data. All right reserved.

Natural Gas – Trade and Prices

Exports

Imports

Traded Gas

LNG – Liquefaction and Regasification Capacity

Natural Gas Balance – Italy

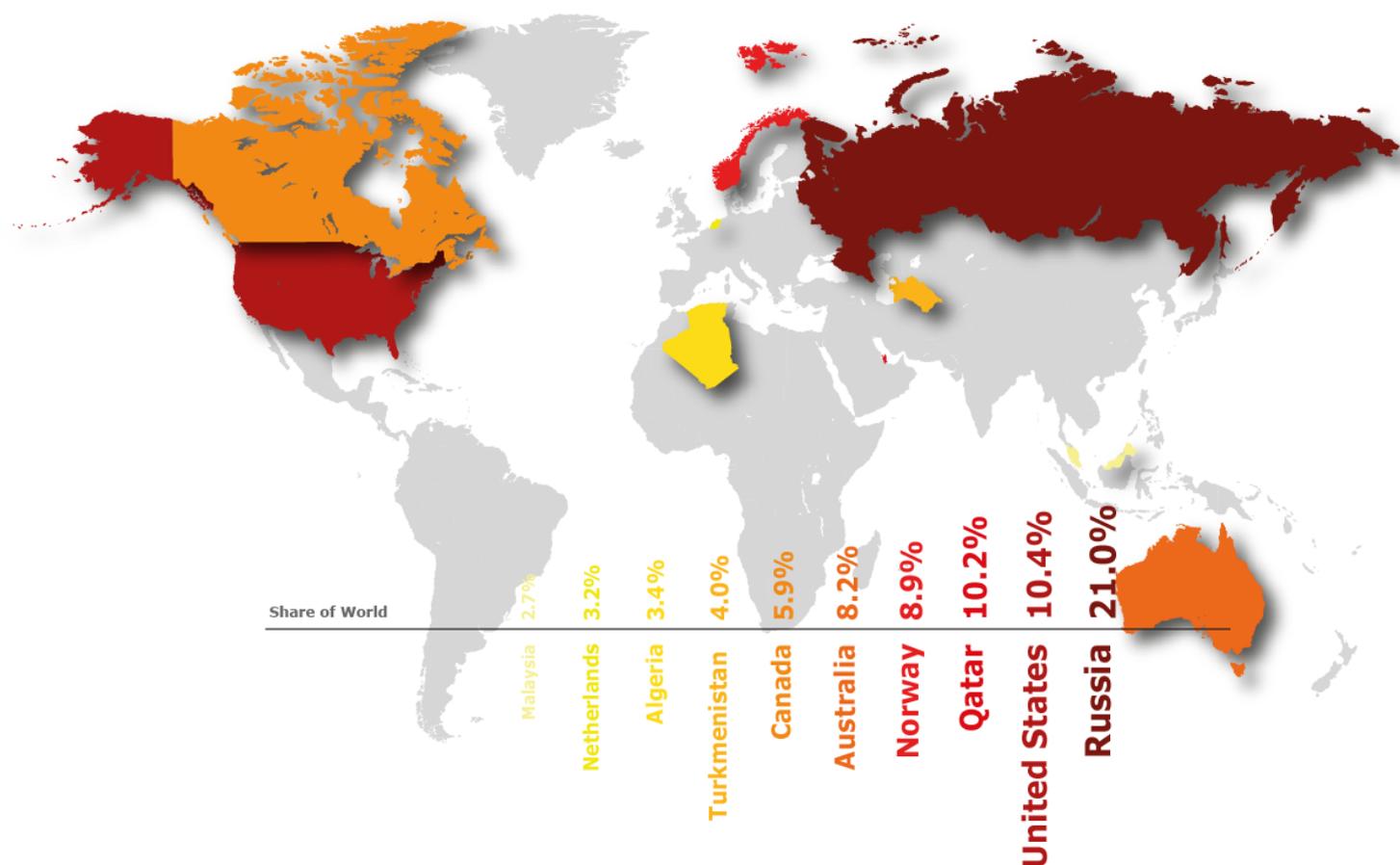
Natural Gas Prices

The World Top 10 Exporters^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia	182.12	194.71	179.31	191.86	203.66	218.13	234.27	262.38	12.0%	1.9%
United States	6.48	19.42	30.42	47.33	61.26	86.57	98.58	129.80	31.7%	17.1%
Qatar	14.32	30.35	98.76	128.23	131.05	128.07	126.69	128.32	1.3%	12.2%
Norway	49.01	82.54	102.90	112.52	112.54	120.94	117.77	111.17	-5.6%	4.4%
Australia	10.78	14.40	24.33	34.15	50.47	71.45	84.50	102.51	21.3%	12.6%
Canada	96.16	101.65	92.05	76.37	79.98	82.10	77.90	73.48	-5.7%	-1.4%
Turkmenistan	31.76	43.10	22.74	54.45	50.73	51.42	55.15	49.49	-10.3%	2.4%
Algeria	61.65	64.07	56.58	43.03	53.38	53.42	50.86	42.39	-16.7%	-2.0%
Netherlands	34.50	43.47	49.61	46.21	49.91	46.77	45.41	39.72	-12.5%	0.7%
Malaysia	20.74	28.89	31.20	32.70	32.91	35.91	31.78	33.69	6.0%	2.6%
The World Top 10	507.51	622.58	687.90	766.86	825.89	894.79	922.91	972.96	5.4%	3.5%
Rest of the World	120.84	222.54	266.18	280.23	260.40	286.30	263.14	279.09	6.1%	4.5%
World	628.35	845.13	954.08	1,047.09	1,086.29	1,181.08	1,186.05	1,252.05	5.6%	3.7%

The World Top 10 (2019)



^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe										
Austria	0.02	1.03	4.74	5.56	6.69	5.26	5.04	2.71	-46.1%	30.4%
Belgium	0.00	0.00	3.20	1.68	0.67	0.73	1.32	3.91	197.0%	
Bulgaria	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.01	-39.9%	
Croatia	0.00	0.42	0.46	0.35	0.38	0.19	0.11	0.07	-36.3%	
Czech Republic	0.00	0.08	0.15	0.00	0.00	0.00	0.00	0.00		-100.0%
Denmark	3.35	5.83	3.67	2.29	2.21	2.33	1.60	1.37	-14.3%	-4.6%
France	0.79	1.05	2.97	5.66	3.88	6.31	6.19	11.26	82.1%	15.0%
Germany	4.91	19.72	19.95	31.68	22.48	31.29	0.00	0.00		-100.0%
Hungary	0.08	0.00	0.22	0.53	1.04	3.42	4.85	6.78	39.7%	26.7%
Italy	0.05	0.38	0.13	0.21	0.20	0.26	0.37	0.31	-16.7%	10.4%
Lithuania	0.00	0.00	0.00	0.09	0.04	0.20	0.18	0.50	188.2%	
Netherlands	34.50	43.47	49.61	46.21	49.91	46.77	45.41	39.72	-12.5%	0.7%
Norway	49.01	82.54	102.90	112.52	112.54	120.94	117.77	111.17	-5.6%	4.4%
Poland	0.04	0.04	0.04	0.05	0.83	1.18	0.66	0.67	2.6%	16.2%
Slovakia	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00		
Spain	0.00	0.00	1.17	5.13	4.03	2.92	3.29	1.18	-64.2%	
Turkey	0.00	0.00	0.62	0.60	0.65	0.60	0.64	0.73	13.3%	
Ukraine	2.80	2.59	0.01	0.00	0.00	0.00	0.00	0.00		-100.0%
United Kingdom	13.17	8.66	15.14	13.80	10.30	11.20	7.46	7.88	5.6%	-2.7%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia										
Russia	182.12	194.71	179.31	191.86	203.66	218.13	234.27	262.38	12.0%	1.9%
Azerbaijan	0.00	0.00	6.04	7.95	7.86	8.65	9.68	11.55	19.3%	
Kazakhstan	5.09	15.05	6.08	20.11	21.50	26.22	26.79	27.15	1.3%	9.2%
Turkmenistan	31.76	43.10	22.74	54.45	50.73	51.42	55.15	49.49	-10.3%	2.4%
Uzbekistan	6.50	11.75	12.32	11.36	11.07	9.69	14.09	16.04	13.9%	4.9%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East										
Iran	0.00	4.66	8.35	8.92	8.92	13.01	15.29	18.04	18.0%	
Oman	4.27	12.19	12.27	10.42	11.09	11.62	13.68	14.02	2.5%	6.5%
Qatar	14.32	30.35	98.76	128.23	131.05	128.07	126.69	128.32	1.3%	12.2%
United Arab Emirates	6.78	6.96	7.45	7.16	7.13	6.70	7.00	7.05	0.7%	0.2%
Yemen	0.00	0.00	5.30	1.89	0.00	0.00	0.00	0.00		

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa										
Algeria	61.65	64.07	56.58	43.03	53.38	53.42	50.86	42.39	-16.7%	-2.0%
Angola	0.00	0.00	0.00	0.00	0.86	4.71	5.06	5.61	10.8%	
Cameroon	0.00	0.00	0.00	0.00	0.00	0.00	0.78	1.62	108.1%	
Egypt	0.00	14.71	12.33	0.24	1.31	1.12	2.00	4.78	139.5%	
Equatorial Guinea	0.02	1.14	3.22	4.12	4.59	4.71	5.23	4.25	-18.9%	31.9%
Libya	0.76	5.20	9.26	6.75	4.56	4.37	4.27	5.46	27.6%	10.9%
Mozambique	0.00	2.15	3.04	3.87	4.08	4.10	3.98	3.97	0.0%	
Nigeria	5.14	12.52	20.65	25.01	22.59	26.37	25.96	27.49	5.9%	9.2%
Others Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific										
Australia	10.78	14.40	24.33	34.15	50.47	71.45	84.50	102.51	21.3%	12.6%
Brunei	8.87	9.49	8.83	8.36	7.88	8.23	8.89	8.95	0.6%	0.0%
China	2.33	2.89	3.92	3.16	3.29	3.44	3.30	3.40	3.3%	2.0%
Indonesia	40.24	42.22	41.85	32.13	29.62	27.64	27.52	22.84	-17.0%	-2.9%
Malaysia	20.74	28.89	31.20	32.70	32.91	35.91	31.78	33.69	6.0%	2.6%
Myanmar	4.63	9.32	10.34	13.66	14.51	14.31	13.32	14.41	8.2%	6.2%
Others Asia - Pacific	0.00	0.00	5.64	7.43	8.22	7.84	7.47	8.76	17.4%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas										
Argentina	4.52	6.65	0.46	0.09	0.06	0.08	0.43	0.27	-38.1%	-13.8%
Bolivia	2.05	10.03	11.24	16.88	15.50	14.85	13.48	11.28	-16.3%	9.4%
Canada	96.16	101.65	92.05	76.37	79.98	82.10	77.90	73.48	-5.7%	-1.4%
Chile	0.00	0.00	0.00	0.00	0.35	0.21	0.16	0.00	-100.0%	
Colombia	0.00	0.00	1.39	0.33	0.00	0.00	0.00	0.00		
Mexico	0.24	0.25	0.92	0.03	0.03	0.02	0.01	0.05	278.6%	-8.0%
Peru	0.00	0.00	2.48	5.58	6.69	6.37	5.84	6.30	7.8%	
Trinidad and Tobago	4.22	13.72	20.33	17.05	14.48	14.92	16.82	18.08	7.5%	8.0%
United States	6.48	19.42	30.42	47.33	61.26	86.57	98.58	129.80	31.7%	17.1%
Others Americas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

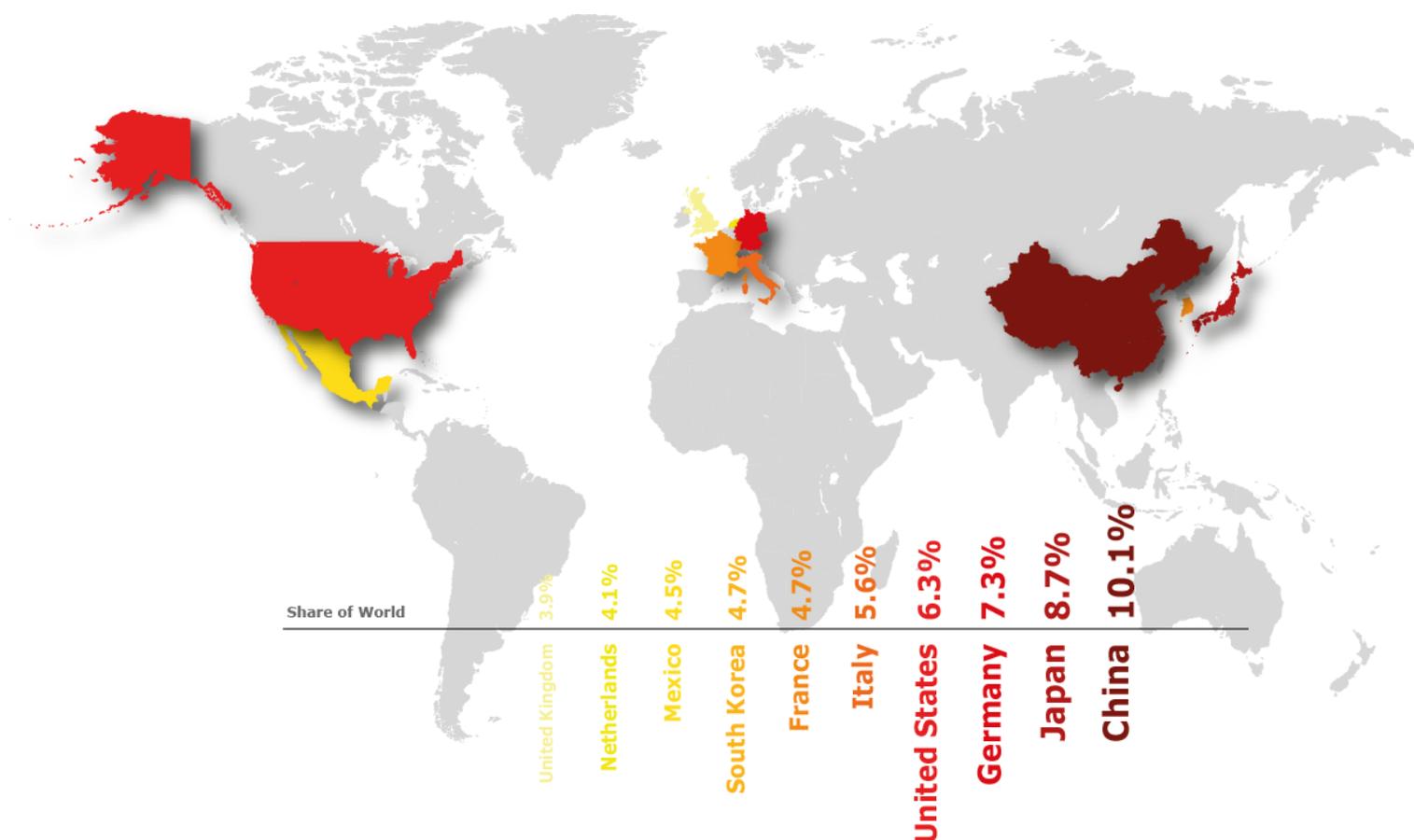
^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

The World Top 10 Importers^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
China	0.00	0.00	14.64	56.58	68.69	86.37	113.83	121.65	6.9%	
Japan	73.81	78.92	96.12	113.79	115.39	114.22	109.72	104.24	-5.0%	1.8%
Germany	71.04	91.76	91.65	99.92	94.92	111.35	82.03	88.46	7.8%	1.2%
United States	102.09	117.32	101.09	73.15	80.88	81.88	77.55	76.44	-1.4%	-1.5%
Italy	54.72	69.97	71.77	58.36	62.18	66.34	64.65	67.54	4.5%	1.1%
France	42.40	48.41	48.98	45.80	47.96	50.19	50.92	56.69	11.3%	1.5%
South Korea	19.85	30.37	45.69	45.29	46.06	50.74	57.74	56.12	-2.8%	5.6%
Mexico	2.80	8.94	14.70	35.09	41.35	41.53	44.88	54.56	21.6%	16.9%
Netherlands	14.51	19.12	21.46	34.00	38.45	45.20	50.76	49.19	-3.1%	6.6%
United Kingdom	2.34	15.60	54.56	44.59	47.42	46.53	46.54	46.61	0.2%	17.0%
The World Top 10	383.57	480.40	560.67	606.57	643.30	694.34	698.62	721.51	3.3%	3.4%
Rest of the World	238.52	343.43	396.31	415.49	419.72	457.94	446.96	482.84	8.0%	3.8%
World	622.08	823.83	956.98	1,022.06	1,063.02	1,152.29	1,145.58	1,204.35	5.1%	3.5%

The World Top 10 (2019)



^(*) Data source: the original data are from IEA (2020) *Extended Balances*. All rights reserved. Data have been converted by Eni using a unified gross calorific value of 40 MJ/cm.

Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe										
Austria	6.19	9.35	11.85	11.36	13.79	13.42	12.59	13.67	8.6%	4.3%
Belarus	16.53	19.43	20.83	18.14	18.00	18.36	19.63	18.86	-3.9%	0.7%
Belgium	15.44	17.23	22.73	17.79	17.31	17.29	18.76	21.84	16.4%	1.8%
Bosnia Herzegovina	0.23	0.35	0.23	0.21	0.21	0.23	0.23	0.22	-3.7%	-0.2%
Bulgaria	3.19	2.86	2.48	2.93	3.02	3.17	3.01	2.86	-5.1%	-0.6%
Croatia	1.05	1.08	1.01	1.01	1.22	1.75	1.53	1.93	26.0%	3.2%
Czech Republic	8.70	8.84	8.11	7.17	7.81	8.53	7.68	9.14	19.0%	0.3%
Denmark	0.00	0.00	0.16	0.69	0.71	0.54	0.40	1.16	187.7%	
Estonia	0.77	0.93	0.65	0.45	0.50	0.47	0.48	0.44	-8.0%	-2.9%
Finland	3.99	4.19	4.46	2.60	2.39	2.23	2.53	2.45	-3.4%	-2.5%
France	42.40	48.41	48.98	45.80	47.96	50.19	50.92	56.69	11.3%	1.5%
Germany	71.04	91.76	91.65	99.92	94.92	111.35	82.03	88.46	7.8%	1.2%
Greece	1.96	2.71	3.76	3.11	4.03	4.91	4.82	5.18	7.5%	5.2%
Hungary	8.54	11.41	9.20	6.60	8.40	12.98	12.35	18.08	46.4%	4.0%
Ireland	2.88	3.50	5.21	4.21	1.98	1.64	2.02	2.81	38.9%	-0.1%
Italy	54.72	69.97	71.77	58.36	62.18	66.34	64.65	67.54	4.5%	1.1%
Latvia	1.29	1.67	1.05	1.26	1.07	1.18	1.34	1.28	-4.5%	0.0%
Lithuania	2.40	2.90	2.89	2.49	2.20	2.42	2.22	2.67	20.5%	0.6%
Luxembourg	0.78	1.37	1.39	0.89	0.82	0.81	0.80	0.80	0.1%	0.1%
Macedonia	0.06	0.07	0.11	0.13	0.20	0.26	0.24	0.28	16.3%	8.3%
Malta	0.00	0.00	0.00	0.00	0.00	0.30	0.37	0.37	-1.1%	
Moldova	2.47	2.78	2.69	2.48	2.50	2.30	2.49	2.55	2.3%	0.2%
Netherlands	14.51	19.12	21.46	34.00	38.45	45.20	50.76	49.19	-3.1%	6.6%
Poland	7.72	9.96	10.36	11.62	14.17	15.15	15.21	17.03	12.0%	4.2%
Portugal	2.37	4.53	5.24	4.73	4.96	6.32	5.90	6.14	4.0%	5.1%
Romania	3.15	4.87	2.11	0.19	1.37	1.11	1.41	2.59	84.2%	-1.0%
Serbia	1.06	2.00	1.82	1.61	1.66	2.02	2.04	1.99	-2.1%	3.4%
Slovakia	6.64	7.03	5.82	4.29	4.21	5.08	4.25	6.26	47.5%	-0.3%
Slovenia	0.95	1.08	1.00	0.77	0.82	0.85	0.84	0.85	1.5%	-0.6%
Spain	17.99	35.18	37.16	32.78	32.79	35.04	35.23	37.65	6.9%	4.0%
Sweden	0.90	0.98	1.70	0.84	0.95	1.10	1.21	1.20	-0.7%	1.5%
Switzerland	2.83	3.24	3.50	3.32	3.48	3.50	3.32	3.41	2.6%	1.0%
Turkey	14.02	25.74	36.42	46.38	44.39	52.90	48.15	43.25	-10.2%	6.1%
Ukraine	57.77	58.72	34.38	15.46	10.24	13.10	9.84	10.95	11.4%	-8.4%
United Kingdom	2.34	15.60	54.56	44.59	47.42	46.53	46.54	46.61	0.2%	17.0%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia										
Russia	12.24	7.21	4.07	8.41	8.54	8.39	8.97	8.71	-2.9%	-1.8%
Armenia	1.30	1.56	1.59	2.28	2.15	2.29	2.36	2.43	3.1%	3.3%
Azerbaijan	0.28	4.41	0.00	0.00	0.29	2.06	1.76	1.21	-31.0%	8.1%
Georgia	1.04	1.22	1.17	2.50	2.26	2.38	2.37	2.54	7.1%	4.8%
Kazakhstan	4.12	10.95	3.43	5.45	6.82	6.42	9.70	8.34	-14.0%	3.8%
Kyrgyzstan	0.64	0.69	0.27	0.24	0.25	0.27	0.30	0.29	-2.5%	-4.0%
Tajikistan	0.69	0.60	0.17	0.00	0.00	0.00	0.05	0.14	156.4%	-8.1%
Uzbekistan	1.54	1.04	0.02	0.08	0.08	0.00	0.00	0.00		-100.0%

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Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East										
Iran	3.23	5.09	8.85	8.43	5.77	3.80	1.57	1.57	0.0%	-3.7%
Israel	0.00	0.00	2.01	0.11	0.30	0.43	0.55	0.72	31.0%	
Jordan	0.00	1.40	2.50	2.14	4.64	5.05	4.20	2.36	-43.8%	
Kuwait	0.00	0.00	2.65	3.79	4.71	5.25	4.73	4.95	4.7%	
Oman	0.00	0.00	1.97	2.06	2.04	2.04	1.66	1.66	0.0%	
United Arab Emirates	0.00	1.33	16.54	20.41	19.95	20.27	18.52	19.38	4.6%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa										
Egypt	0.00	0.00	0.00	6.62	9.08	7.64	2.91	0.09	-96.9%	
Ghana	0.00	0.00	0.41	0.54	0.11	0.31	0.67	0.67	0.0%	
Morocco	0.00	0.40	0.61	1.10	1.13	1.12	1.00	0.93	-6.8%	
South Africa	0.00	1.13	3.04	3.87	4.08	4.10	3.66	3.51	-4.1%	
Tunisia	0.99	1.28	2.34	2.95	3.41	3.83	4.01	3.27	-18.6%	6.5%
Others Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific										
Australia	0.00	0.00	4.44	5.02	5.66	5.16	4.66	5.05	8.3%	
China	0.00	0.00	14.64	56.58	68.69	86.37	113.83	121.65	6.9%	
Hong Kong	2.85	2.55	3.64	3.09	3.17	3.16	3.06	3.16	3.2%	0.5%
India	0.00	6.83	13.30	22.14	25.72	28.40	29.70	32.08	8.0%	
Japan	73.81	78.92	96.12	113.79	115.39	114.22	109.72	104.24	-5.0%	1.8%
Malaysia	0.00	1.56	8.16	9.09	7.94	8.14	8.09	9.79	21.0%	
Singapore	1.30	5.83	7.55	9.89	10.13	10.33	10.42	10.38	-0.4%	11.5%
South Korea	19.85	30.37	45.69	45.29	46.06	50.74	57.74	56.12	-2.8%	5.6%
Taiwan	6.01	8.83	13.68	17.85	18.60	20.70	21.13	20.94	-0.9%	6.8%
Thailand	2.01	8.64	9.58	13.91	13.54	14.41	14.71	14.89	1.2%	11.1%
Others Asia - Pacific	0.00	0.00	0.15	0.00	0.01	0.17	0.25	0.25	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas										
Argentina	0.00	1.68	3.47	11.12	10.63	11.07	9.49	6.63	-30.2%	
Brazil	2.20	8.96	12.60	18.33	11.68	10.68	10.55	9.76	-7.5%	8.2%
Canada	1.55	9.11	21.78	19.25	19.85	24.41	22.44	23.54	4.9%	15.4%
Chile	4.27	6.14	3.50	3.64	4.25	4.08	4.02	5.00	24.3%	0.8%
Colombia	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.26	1989.7%	
Dominican Republic	0.00	0.24	0.79	1.11	1.02	1.22	1.19	1.51	26.3%	
Jamaica	0.00	0.00	0.00	0.00	0.02	0.08	0.09	0.13	40.4%	
Mexico	2.80	8.94	14.70	35.09	41.35	41.53	44.88	54.56	21.6%	16.9%
United States	102.09	117.32	101.09	73.15	80.88	81.88	77.55	76.44	-1.4%	-1.5%
Uruguay	0.04	0.10	0.07	0.05	0.06	0.07	0.06	0.08	31.7%	4.7%
Venezuela	0.00	0.00	1.95	0.36	0.00	0.00	0.00	0.00		
Others Americas	0.33	0.66	0.75	1.44	1.65	1.37	1.33	1.61	21.2%	8.7%

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Imports by Country of Origin - LNG 2019^(*)

(billion cubic metres)

Importers
Exporters

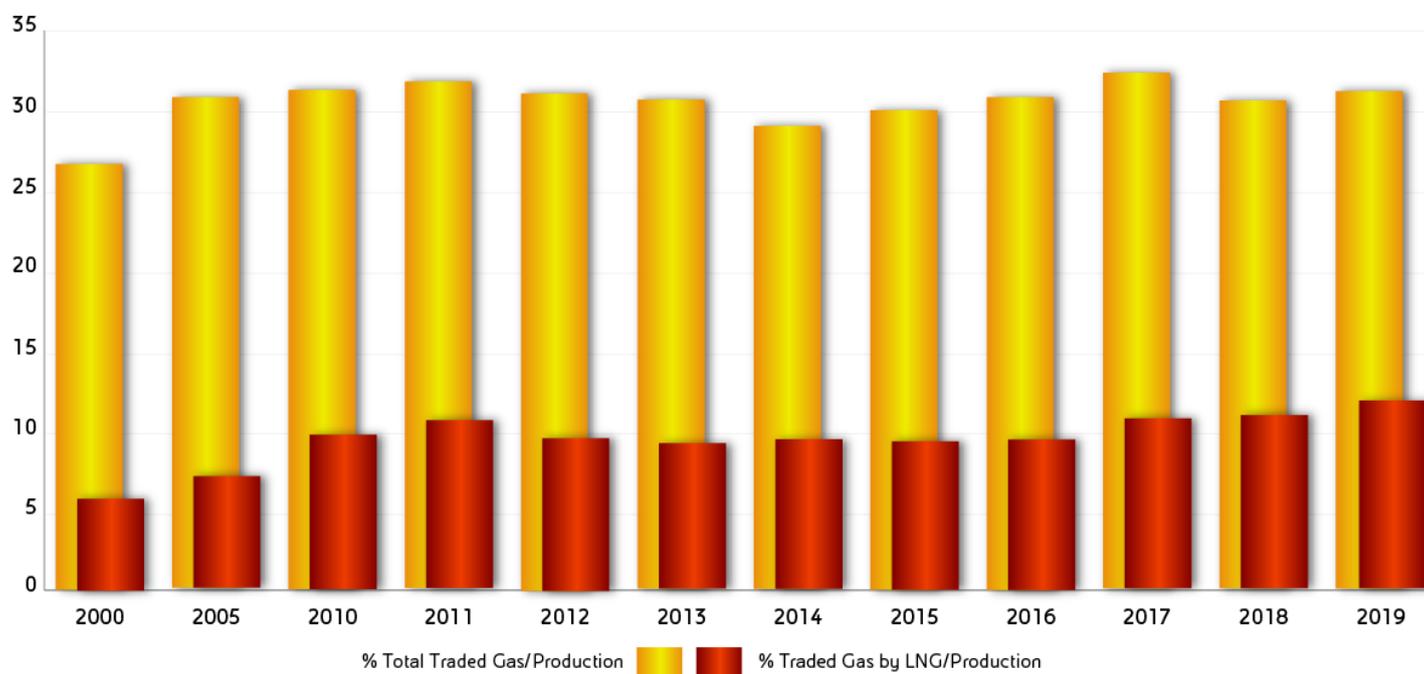
	EUROPE															MIDDLE EAST				AFRICA
	Belgium	France	Finland	Gibraltar	Greece	Italy	Lithuania	Malta	Netherlands	Poland	Portugal	Spain	Sweden	Turkey	United Kingdom	Israel	Jordan	Kuwait	United Arab Emirates	Egypt
Europe																				
Belgium												0.09								
Estonia									0.00											
France					0.09	0.00								0.10						
Gibraltar												0.03								
Latvia							0.13													
Lithuania			0.01						0.01											
Netherlands			0.01		0.08				0.00	0.09					0.07					
Norway		0.16	0.04		0.54	0.17		0.01	7.82	0.20		0.66	0.13	0.09	0.34					
Russia and Central Asia																				
Russia	1.62	5.94	0.08			0.01			0.04	0.10	3.17			3.18	0.16	0.47		0.17		
Middle East																				
Oman																	0.97	0.08		
Qatar	4.56	2.12			0.51	6.55			2.29	0.65	4.35			2.46	8.96	0.11	2.45			
Saudi Arabia	0.08																			
United Arab Emirates																				
Africa																				
Algeria		3.63			0.54	3.16			0.56	0.07	1.07			5.68	1.00		0.09			
Angola					0.09						0.27				0.09		0.17	0.17		
Cameroon											0.09				0.09					
Egypt	0.08	1.13			0.26	0.47		0.06						0.47			0.08	0.08		
Equatorial Guinea						0.08					0.09			0.08	0.25					
Nigeria		4.54			0.43	0.17			0.93	3.25	4.26			2.42	0.34		0.49	0.17		
Asia-Pacific																				
Australia																				
Brunei																			0.18	
China																				
Indonesia																				
Malaysia																				
Papua New Guinea																				
Singapore																				
Americas																				
Argentina																				
Canada																				
Peru												0.45			0.27					
Trinidad and Tobago					0.03	1.41		0.31	1.12	0.12	2.79			0.19	0.84	0.60	0.25	0.19	0.09	
United States	0.18	1.73			0.23	1.61		0.01		0.94	1.30	4.10		1.22	3.01		0.92	0.29	0.58	
Non-specified/Others	0.20	0.89		0.07					0.00		0.00		0.11				1.28	0.48	0.27	0.08
TOTAL BY COUNTRY	6.7	20.1	0.1	0.1	2.8	13.6	0.1	0.4	10.4	3.5	5.6	21.4	0.2	12.7	18.5	0.8	3.0	5.2	1.8	0.1

^(*) Data source: IEA (2020) *Natural Gas Information*. All rights reserved.

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
							0.08												0.07		0.1
	0.09										0.33					0.09			0.16		0.0
																					0.3
																					0.0
																					0.1
																					0.0
																					0.3
																					10.8
0.30	3.82	0.28	8.68				3.12	1.78	0.09												33.0
0.09	1.46	1.20	4.05		0.37		5.17	0.16	0.17												13.7
3.65	11.28	12.75	11.81		6.31	0.13	14.85	5.47	2.60												103.9
	0.16	3.50	1.98		0.53		0.24	0.07													0.1
																					6.5
0.39	0.08	0.28	0.08		0.36	0.01	0.03														17.0
	0.17	3.82				0.09			0.09		0.09	0.09									5.2
	0.73	0.53						0.07		0.04	0.13										1.7
0.08	0.25	0.27			0.85	0.50	0.23	0.13	0.17									0.04			5.1
	0.56	0.68		0.11	0.29	0.33		0.17			0.17										2.8
0.48	2.63	3.50	1.46	0.08	1.28	0.08	0.82	0.24			0.27			0.08	0.09				0.09		28.1
	36.52	1.20	41.19	1.93		2.31	10.01	5.25	0.87												99.5
	0.80		5.84	0.86			0.85	0.30													8.6
			0.10																		0.1
0.08	6.03		4.63			0.17	2.96	0.42	0.36												14.7
0.17	9.94	0.52	13.66		0.08	0.01	6.51	2.97	1.71												35.6
	3.72		4.95				0.48	1.93													11.1
							0.08														0.1
											0.07										0.1
	0.88		0.87				1.35	0.13	0.08										0.01		0.0
	1.05	0.19				0.16	0.09	0.23	0.07	0.59	0.56	0.43	4.03	0.04	1.21	0.04		0.07	1.33	1.69	4.0
0.10	0.19	2.30	5.73	0.11	0.76	0.82	6.92	0.70	0.19	1.11	1.54	0.00	0.95	0.19	0.35	0.10	4.09	0.29			19.7
																					42.5
0.07	0.50			0.40	0.84													0.02			5.2
5.4	80.9	31.0	105.0	3.5	11.7	4.6	53.8	20.0	6.4	1.7	3.2	0.5	5.0	0.3	1.7	0.1	4.1	0.6	1.5	1.7	470.0

	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	22.20	77.80	27.04	6.00	21.04
2005	22.99	77.01	31.01	7.13	23.88
2010	30.71	69.29	31.43	9.65	21.78
2011	32.45	67.56	32.17	10.44	21.74
2012	31.26	68.74	31.35	9.80	21.55
2013	30.05	69.95	30.77	9.25	21.53
2014	31.50	68.50	29.48	9.29	20.19
2015	31.26	68.74	30.34	9.48	20.85
2016	31.36	68.64	31.08	9.75	21.33
2017	32.46	67.54	32.56	10.57	21.99
2018	34.31	65.69	30.78	10.56	20.22
2019	38.07	61.93	31.25	11.90	19.35

Total Traded Gas on Production
(percentage)



Liquefaction Capacity - Countries^(*)

(billion cubic metres)

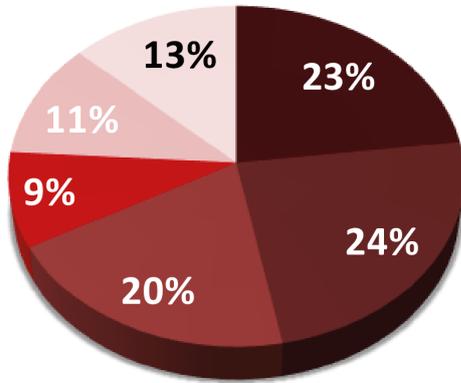
	2000	2005	2010	2015	2016	2017	2018	2019
Europe			5.6	5.6	5.6	5.6	5.6	5.6
Norway			5.6	5.6	5.6	5.6	5.6	5.6
Russia and Central Asia			13.0	15.0	15.0	15.7	26.3	38.2
Russia			13.0	15.0	15.0	15.7	26.3	38.2
Middle East	33.7	47.5	113.2	136.5	136.5	136.5	136.5	136.5
Oman	7.1	10.1	14.2	14.2	14.2	14.2	14.2	14.2
Qatar	19.1	29.8	83.4	105.6	105.6	105.6	105.6	105.6
United Arab Emirates	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
Africa	42.0	55.0	82.3	83.6	83.6	83.6	85.6	86.9
Algeria	31.8	28.1	27.9	31.1	31.1	31.1	31.1	31.1
Angola				7.1	7.1	7.1	7.1	7.1
Cameroon							2.0	3.3
Egypt		11.1	16.6	9.8	9.8	9.8	9.8	9.8
Equatorial Guinea			5.6	5.6	5.6	5.6	5.6	5.6
Libya	2.2	2.2	2.2					
Nigeria	8.1	13.6	30.1	30.1	30.1	30.1	30.1	30.1
Asia - Pacific	83.1	92.4	113.9	126.5	154.4	179.8	194.0	212.3
Australia	10.4	16.1	28.2	45.1	69.8	90.3	103.3	120.6
Brunei	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
Indonesia	41.3	35.7	42.3	26.7	28.6	28.6	28.6	28.6
Malaysia	21.6	30.8	33.7	34.9	36.2	41.0	41.4	41.4
Papua New Guinea				10.1	10.1	10.1	10.9	11.9
Americas	6.1	15.6	26.0	28.7	36.6	50.4	61.2	84.8
Argentina								0.4
Peru			3.3	6.0	6.0	6.0	6.0	6.0
Trinidad and Tobago	4.1	13.6	20.6	20.6	20.7	20.7	20.7	20.7
United States	2.0	2.0	2.0	2.0	9.9	23.8	34.5	57.8
World	164.9	210.5	353.9	396.0	431.7	471.6	509.1	564.3

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

Liquefaction Capacity - Cluster of Companies^(*)

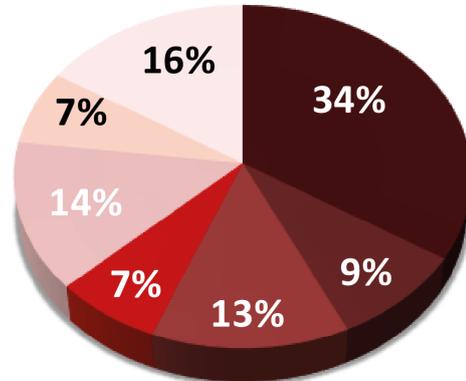
2000

World: 164.9 billion cubic metres



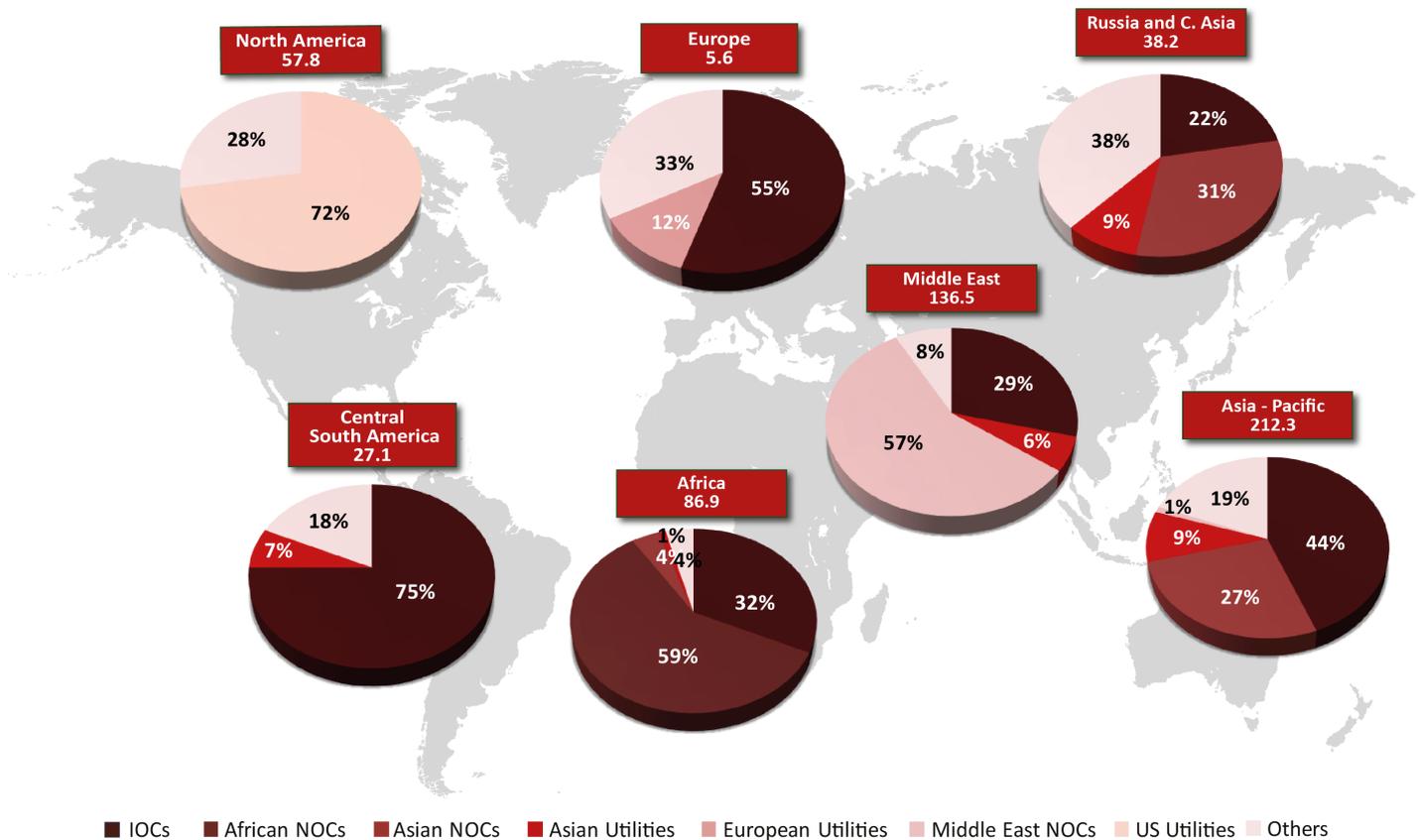
2019

World: 564.3 billion cubic metres



2019

(billion cubic metres)



^(*) **IOCs:** BG, BHP Billiton, BP, Chevron, ConocoPhillips, Eni, Equinor, ExxonMobil, Marathon Oil, Repsol, Shell, Total, Woodside Petroleum. **African NOCs:** EGAS (Egyptian Natural Gas Holding Co.), EGPC (Egyptian General Petroleum Corporation), GEPetrol/Sonagas, National Libyan Oil Company (NOC), NNPC, Sonangol, Sonatrach. **Asian NOCs:** CNOOC, CNPC, CPC, Gazprom, Japan Oil, Gas and Metals National Corp, MRDC (Mineral Resources Dev. Co), Pertamina, Petronas, Sinopec. **Asian Utilities:** Hyundai, JERA, JILCO, Kansai Electric, KOGAS, Kyushu, LNG Japan Corporation, Marubeni, Mitsubishi, Mitsui, Osaka Gas, SK Corp, Toho Gas, Tokyo Gas. **European Utilities:** Gas Natural Fenosa, Engie. **Middle East NOCs:** ADNOC, KUFPEC, Qatar Petroleum. **US Utilities:** Cheniere, Dominion.

Regasification Capacity - Countries^(*)

(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019
Europe	46.4	73.2	175.9	201.0	211.5	223.8	228.7	232.7
Belgium	4.5	4.5	9.0	9.0	9.0	9.0	9.0	9.0
France	15.5	15.5	26.5	22.3	28.0	34.7	34.7	34.7
Greece	1.3	1.3	5.4	5.4	5.4	5.4	5.4	7.6
Italy	3.5	3.5	11.5	15.3	15.3	15.3	15.3	15.3
Lithuania				4.0	4.0	4.0	4.0	4.0
Malta					0.1	0.6	0.6	0.6
Netherlands				12.7	12.7	12.7	12.7	12.7
Poland				0.3	5.0	5.0	5.0	5.0
Portugal		5.6	5.6	8.3	8.3	8.3	8.3	8.3
Spain	15.2	34.2	62.4	63.6	63.6	63.6	63.6	63.6
Turkey	6.3	6.3	12.3	12.3	12.5	17.5	22.4	24.0
United Kingdom		2.3	43.2	47.9	47.9	47.9	47.9	47.9
Russia and Central Asia								3.6
Russia								3.6
Middle East			5.5	17.1	25.4	28.5	28.5	28.0
Israel				2.7	2.7	2.7	2.7	2.3
Jordan				3.1	5.2	5.2	5.2	5.2
Kuwait			5.2	6.6	6.6	6.6	6.6	6.6
United Arab Emirates			0.3	4.7	10.9	14.0	14.0	14.0
Africa				4.8	10.3	10.3	9.3	5.2
Egypt				4.8	10.3	10.3	9.3	5.2
Asia - Pacific	278.9	346.2	428.8	564.3	586.7	617.3	652.8	676.1
Bangladesh							3.9	8.7
China			17.6	62.0	70.3	80.0	88.7	97.0
India		9.4	18.4	34.1	36.3	41.5	41.8	48.2
Indonesia				11.3	12.4	12.5	12.5	12.5
Japan	227.3	243.3	258.6	283.2	288.1	290.4	294.4	294.6
Malaysia				5.2	5.2	6.0	10.0	10.0
Pakistan				4.6	6.1	6.6	12.3	12.3
Singapore				8.2	8.2	8.2	15.1	15.1
South Korea	45.6	82.8	115.1	128.0	130.4	136.2	136.5	136.7
Taiwan	5.9	10.7	19.1	21.0	22.8	22.8	24.0	25.5
Thailand				6.8	6.8	13.1	13.7	15.7
Americas	11.5	34.5	188.9	243.7	244.9	249.0	251.3	251.2
Argentina			4.1	11.3	11.3	11.3	10.4	6.1
Brazil			7.7	14.9	14.9	14.9	14.9	14.9
Canada			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
Colombia					0.7	4.1	4.1	4.1
Dominican Republic		2.6	2.6	3.9	3.9	3.9	3.9	3.9
Jamaica					0.4	1.0	3.4	5.8
Mexico			15.5	20.7	20.7	20.7	20.7	20.7
Panama							0.9	2.6
United States (**)	11.5	31.9	143.4	175.3	175.3	175.3	175.3	175.4
World	336.7	453.8	799.0	1,030.8	1,078.8	1,128.9	1,170.5	1,196.7

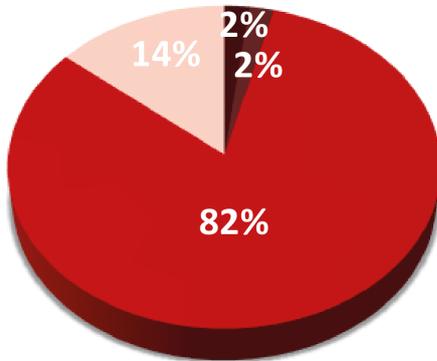
(*) Data source: Wood Mackenzie *LNG Tool*.

(**) The United States includes Puerto Rico

Regasification Capacity - Cluster of Companies^(*)

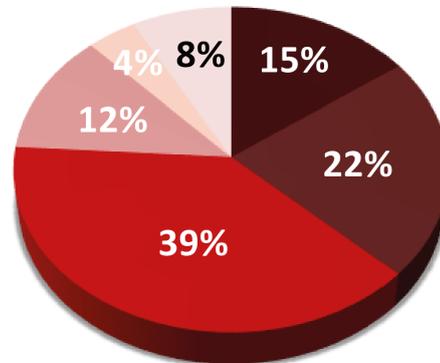
2000

World: 336.7 billion cubic metres



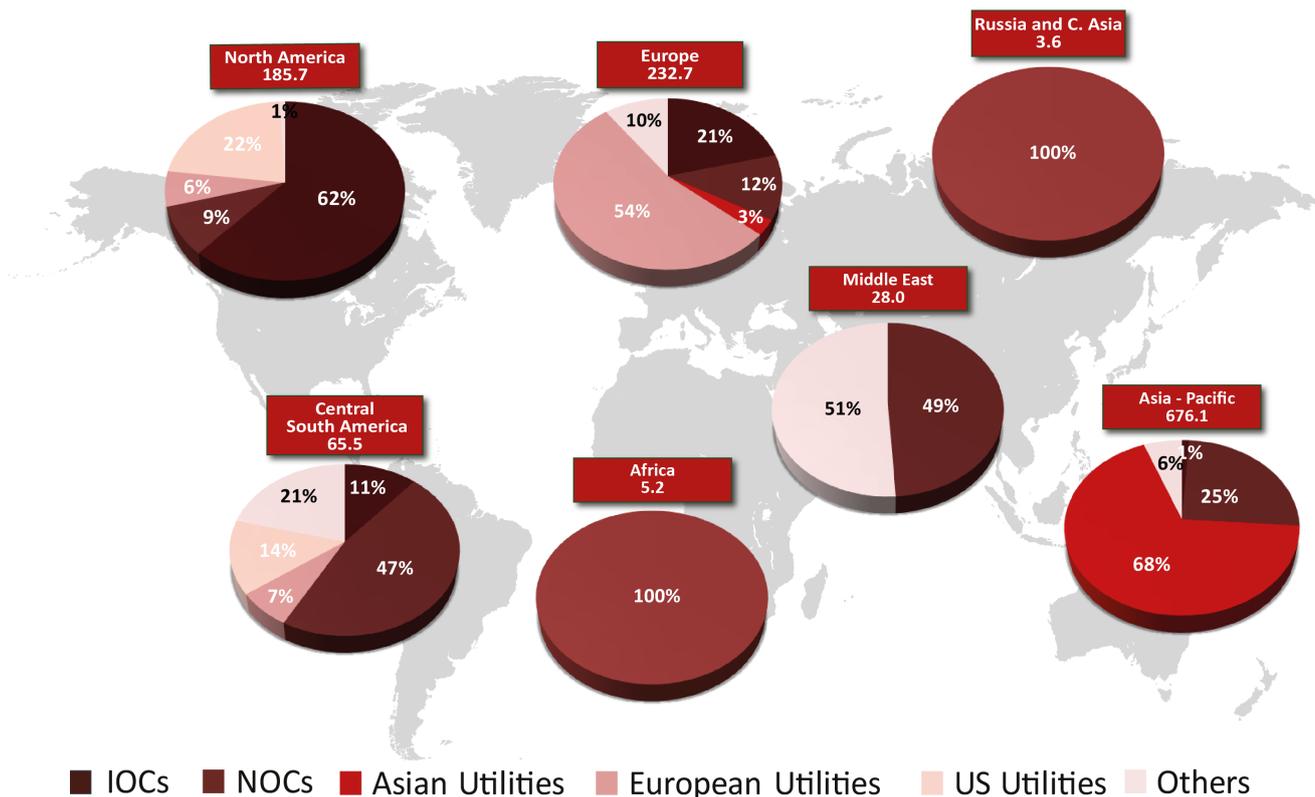
2019

World: 1,196.7 billion cubic metres



2019

(billion cubic metres)



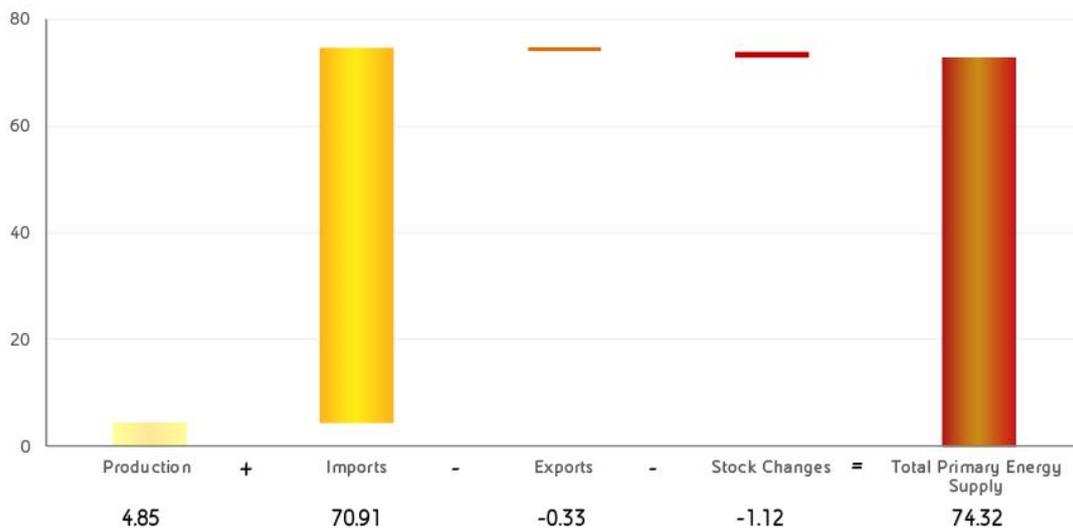
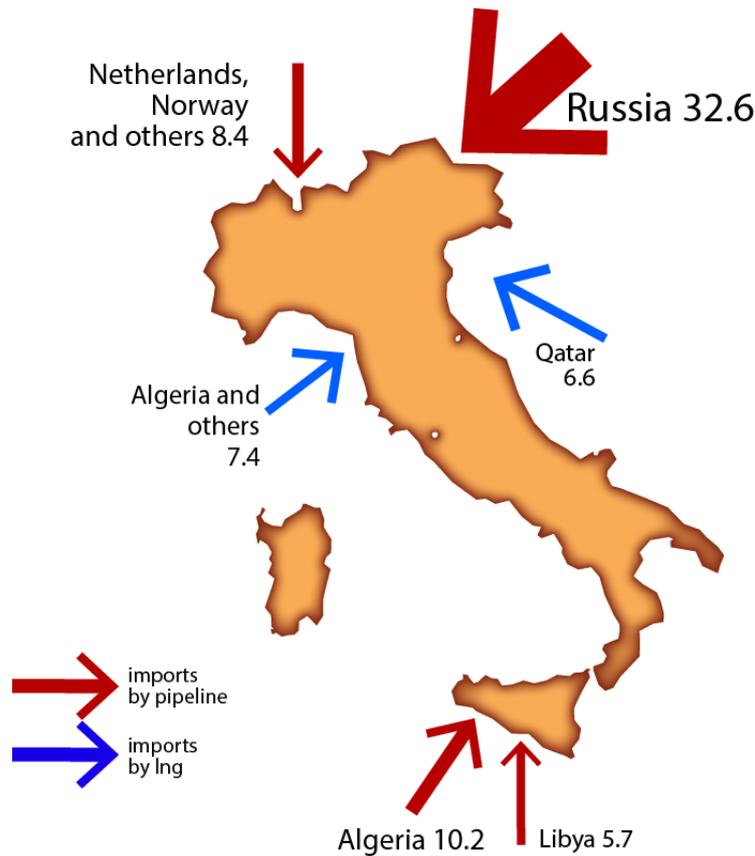
^(*) **IOCs:** BG, BP, Chevron, ConocoPhillips, Eni, Equinor, ExxonMobil, Marathon Oil, OMV, Repsol, Shell, Total.

NOCs: ADNOC, BPCL (Bharat Petroleum Corporation Limited), CFE, CNOOC, CPC, Egas, Enap, Enarsa, Gazprom, IOC (Indian Oil Corporation), Kuwait National Petroleum Corp, Oman Oil, ONGC, Pertamina, Petroblanga, Petrobras, PetroChina, Petronas, PGNiG, PTT, Qatar Petroleum, Sinopec, Sonangol, Sonatrach. **Asian Utilities:** Chubu Electric Power, Chugoku Electric Power, Egegaz, GAIL, Hiroshima Gas, Hokkaido Gas, HongKong & China Gas, HongKong Electric, Hokuriku Electric, Kansai Electric Power, KOGAS, K-Power, Kyushu Electric Power, Maharashtra Utility, Mitsubishi, Mitsui, Nippon Gas, NTPC, Oita Gas, Okinawa Electric Power, Osaka Gas, Perusahaan Gas Negara, POSCO, Saibu Gas, Shenergy, Shenzhen Gas Corp, Shikoku Electric Power, Shizouka Gas, Singapore LNG Corp, Summit Power, Toho Gas, Tohoku Electric, Tokyo Electric Power, Tokyo Gas. **European Utilities:** Botas, Centrica, CEPSA, Depa, DONG Energy, E.On, EconGas, EdF, ElectroGas Malta, Enagas, Enel, Engie, Essent, EVE, Gasunie, Iberdrola, Iren Naturgy (Gas Natural Fenosa), SNAM, Union Fenosa Gas. **US Utilities:** AES, Cheniere, Dominion, Dow Chemical, Excelerate Energy, Freeport LNG Development LP, Semptra Energy, Southern Union.

Italy (*)
(billion cubic metres)

	2000	2005	2010	2015	2016	2017	2018	2019
Production	16.63	12.07	8.41	6.77	5.79	5.54	5.44	4.85
Imports	57.45	73.46	75.35	61.20	65.28	69.65	67.87	70.91
Exports	-0.05	-0.40	-0.14	-0.22	-0.21	-0.27	-0.40	-0.33
Stock Changes	-3.29	1.13	-0.52	-0.23	0.06	0.24	-0.26	-1.12
Total Primary Energy Supply	70.75	86.27	83.10	67.52	70.91	75.15	72.66	74.32

2019

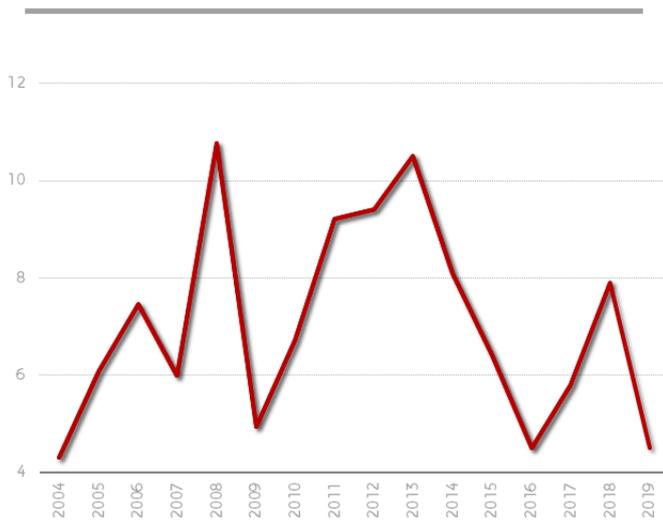


(*) Data source: Italian Ministry for Economic Development. Gas volumes are quoted in Italian calorific value of 38.1 MJ/cm.

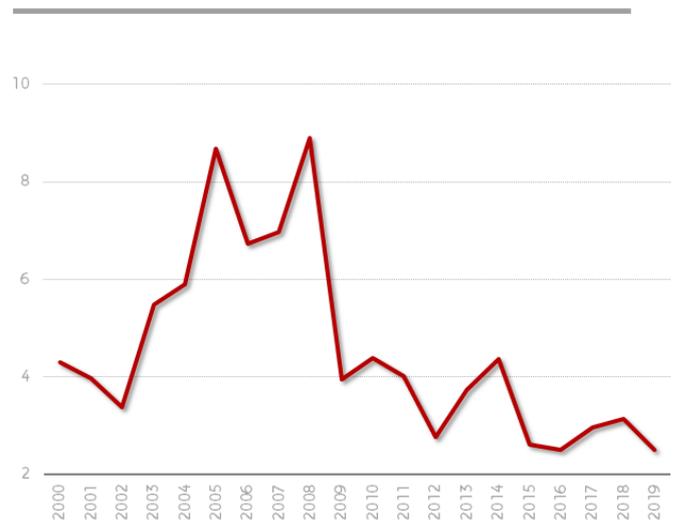
Natural Gas Prices^(*) (\$/Mbtu)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
TTF		6.1	6.7	6.4	4.5	5.8	7.9	4.5	-43.0%	-4.3%
Henry Hub	4.3	8.7	4.4	2.6	2.5	3.0	3.1	2.5	-19.9%	-6.0%
Japan			7.7	8.2	6.2	7.4	10.3	6.2	-40.0%	-2.4%

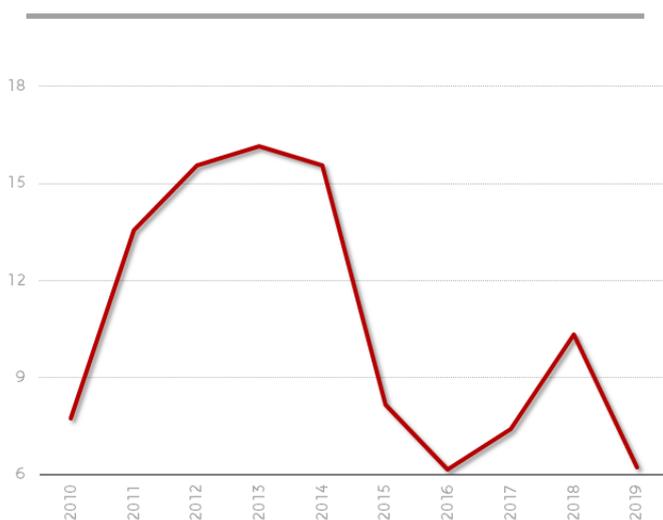
TTF^(*) (\$/Mbtu)



Henry Hub^(*) (\$/Mbtu)



Japan^(*) (\$/Mbtu)



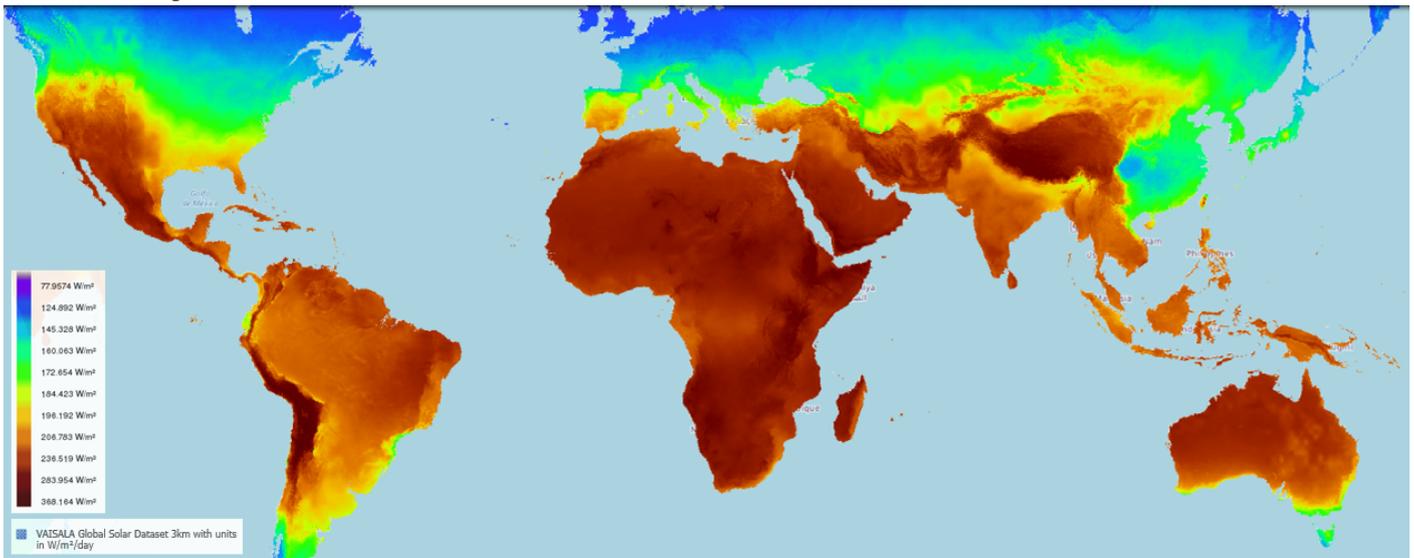
^(*) Data source: ICE London, Wood Mackenzie and EIA DOE.

Renewables

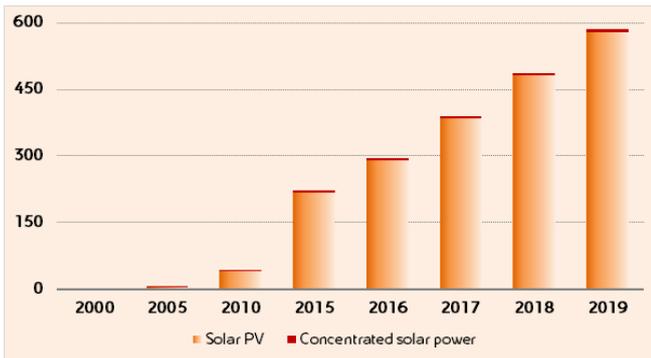
Solar Photovoltaic
Concentrated Solar Power
Wind
Biofuels

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

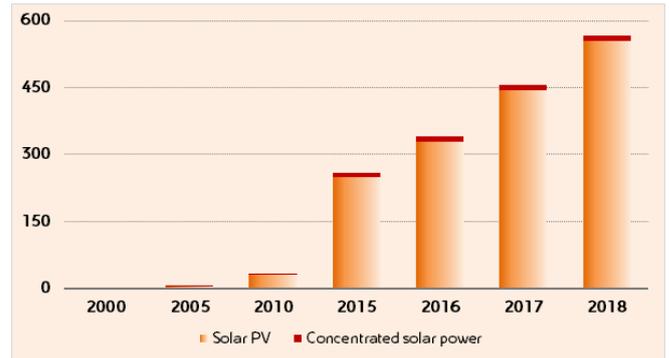
(W/m²/day)



Solar Power Capacity (GW)

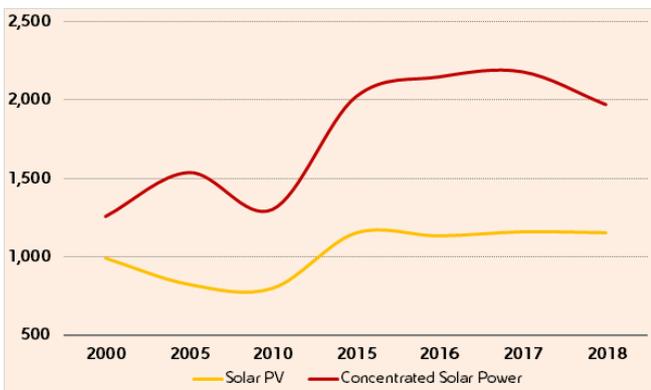


Solar Power Generation (TWh)

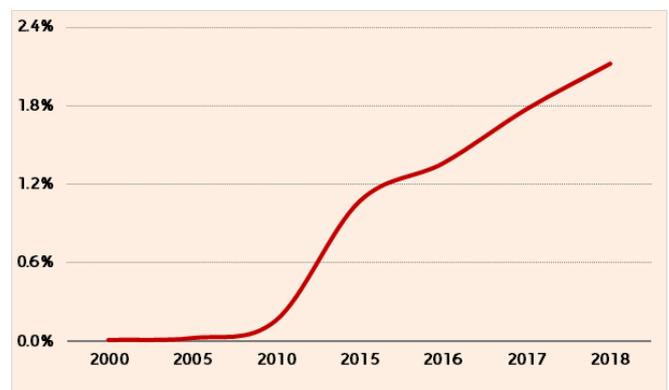


Capacity Factor

(hours per year - world average)



Share of Solar on Total Power Generation



^(*) IRENA: Global Atlas, Map data: 'VAISALA Global Solar Dataset 3km with units in W/m²/day, 2020', © 2020 OpenStreetMap contributors (<https://www.openstreetmap.org/copyright>).

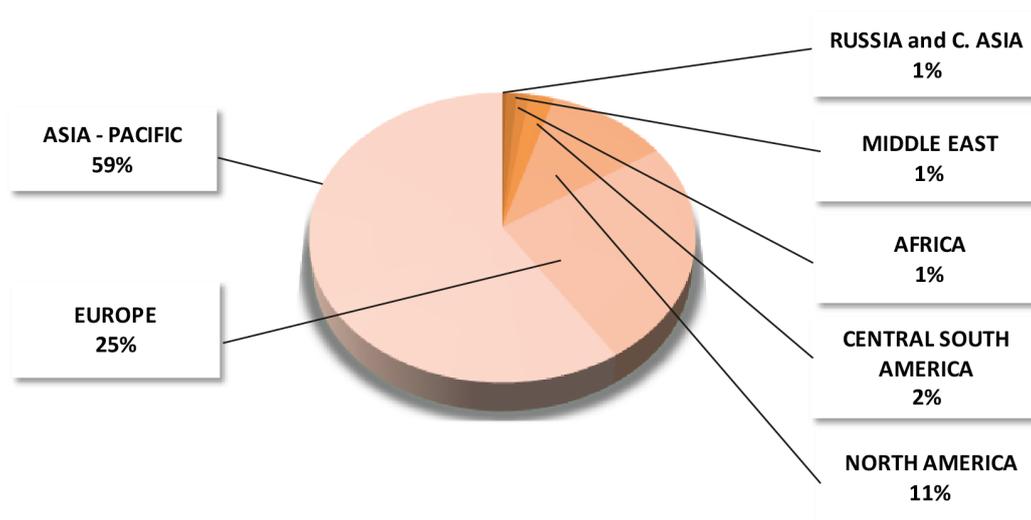
Areas and Aggregates^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Europe	199	2,317	30,123	97,529	104,615	113,633	124,269	144,534	16.3%	19.0%
Russia and Central Asia		0	3	211	262	435	1,081	1,978	82.9%	106.6%
Middle East	0	1	85	1,007	1,498	2,087	3,351	5,561	65.9%	59.2%
Africa	11	26	194	1,923	2,972	3,723	5,195	6,365	22.5%	47.4%
Asia - Pacific	396	1,658	6,593	90,474	143,051	213,876	282,956	343,159	21.3%	55.1%
Americas	202	545	3,281	26,197	38,683	49,841	64,131	76,956	20.0%	42.0%
- North America	183	510	3,130	24,201	35,619	44,270	54,526	63,850	17.1%	39.8%
- Central South America	19	35	151	1,996	3,064	5,571	9,605	13,107	36.5%	64.2%
World	808	4,548	40,279	217,341	291,079	383,596	480,984	578,553	20.3%	34.5%
European Union	177	2,279	29,978	94,977	101,035	106,853	114,744	129,759	13.1%	17.7%
MENA	8	14	119	1,133	1,828	2,732	4,780	7,902	65.3%	59.4%
OECD	755	4,329	38,653	158,005	188,597	214,721	250,904	293,354	16.9%	25.3%
NON OECD	53	218	1,626	59,336	102,482	168,875	230,080	285,199	24.0%	77.6%
OPEC	0	2	28	224	464	1,012	1,565	3,259	108.2%	70.0%
NON OPEC	808	4,545	40,251	217,118	290,615	382,584	479,418	575,293	20.0%	34.4%

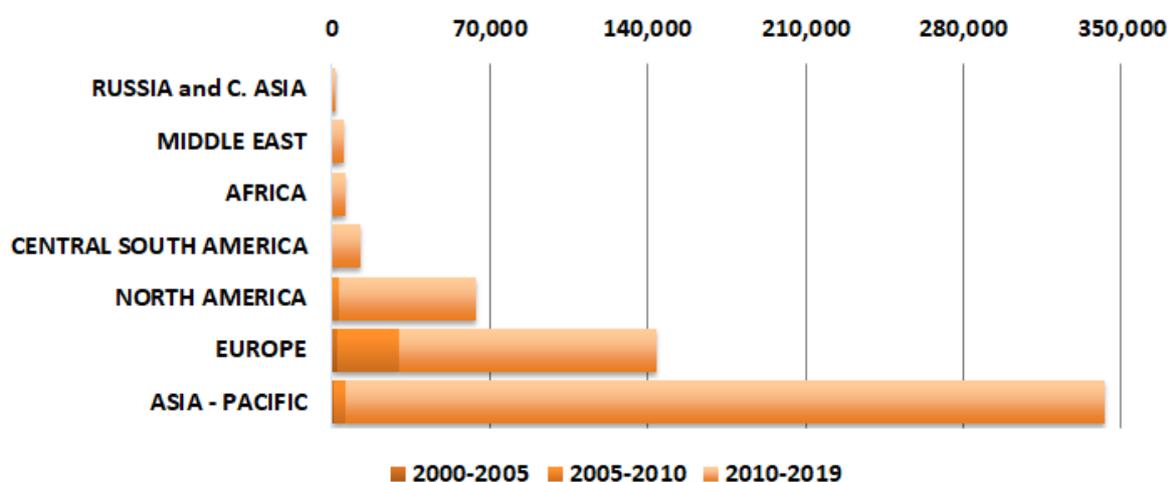
World Solar Photovoltaic Power Capacity (2019)

578,553 MW



World Solar Photovoltaic Power Capacity Growth (2000-2019)

577,745 MW

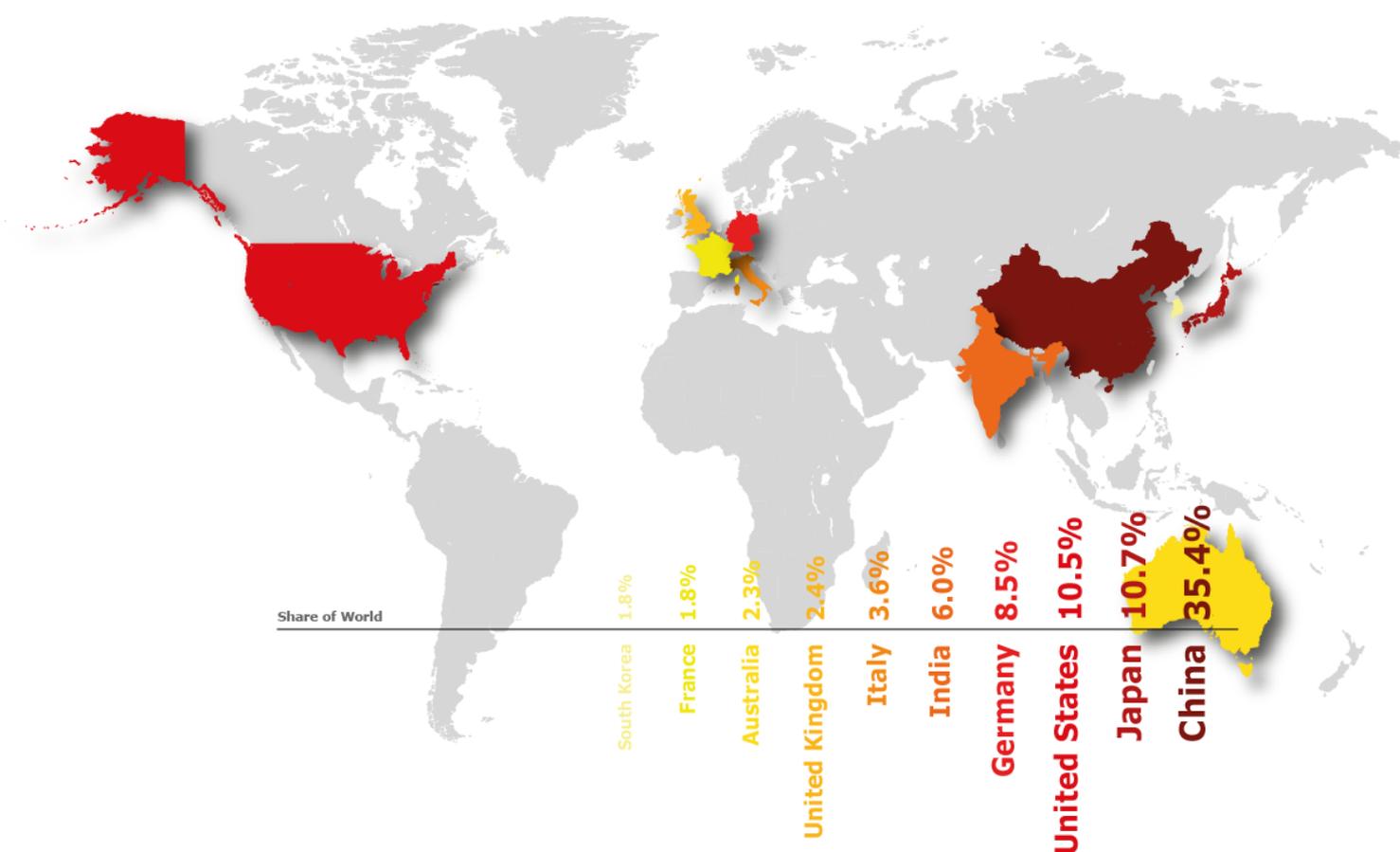


^(*) Data source: Eni's calculations on IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency Abu Dhabi, data.

The World Top 10^(*) (MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
China	34	141	1,022	43,538	77,788	130,801	175,016	205,072	17.2%	80.2%
Japan	330	1,421	3,599	28,615	38,438	44,226	55,500	61,840	11.4%	37.2%
United States	176	493	2,909	21,684	32,958	41,357	51,426	60,540	17.7%	40.1%
Germany	114	2,056	18,004	39,222	40,677	42,291	45,179	49,016	8.5%	11.8%
India	1	12	65	5,365	9,651	17,923	27,127	34,831	28.4%	100.9%
Italy	19	34	3,592	18,901	19,283	19,682	20,108	20,900	3.9%	21.6%
United Kingdom	2	11	95	9,601	11,930	12,782	13,118	13,616	3.8%	73.6%
Australia	25	52	1,088	5,943	6,686	7,352	8,625	13,250	53.6%	32.0%
France	7	13	1,044	7,138	7,702	8,610	9,617	10,562	9.8%	29.3%
South Korea	4	14	650	3,615	4,502	5,835	7,130	10,505	47.3%	36.2%
The World Top 10	712	4,247	32,068	183,622	249,615	330,860	412,845	480,133	16.3%	35.1%
Rest of the World	97	301	8,211	33,720	41,465	52,735	68,139	98,420	44.4%	31.8%
World	808	4,548	40,279	217,341	291,079	383,596	480,984	578,553	20.3%	34.5%

The World Top 10 (2019)



^(*) Data source: IRENA (2020), *Renewable Energy Statistics* 2020 The International Renewable Energy Agency, Abu Dhabi.

Countries^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Europe	199	2,317	30,123	97,529	104,615	113,633	124,269	144,534	16.3%	19.0%
Austria	5	21	89	937	1,096	1,269	1,438	1,578	9.7%	37.7%
Belarus				13	51	153	157	157	0.0%	
Belgium		2	1,007	3,132	3,327	3,616	3,987	4,531	13.6%	18.2%
Bulgaria			25	1,029	1,028	1,036	1,033	1,065	3.1%	51.7%
Croatia			0	48	56	60	68	69	1.5%	82.9%
Cyprus		1	7	76	84	110	118	129	8.5%	38.2%
Czech Republic	0	1	1,727	2,075	2,068	2,070	2,075	2,070	-0.2%	2.0%
Denmark	1	3	7	782	851	906	998	1,079	8.1%	75.0%
Estonia			0	7	10	15	32	107	235.4%	117.1%
Finland	2	4	7	17	39	82	140	215	53.9%	46.3%
France	7	13	1,044	7,138	7,702	8,610	9,617	10,562	9.8%	29.3%
Germany	114	2,056	18,004	39,222	40,677	42,291	45,179	49,016	8.5%	11.8%
Greece		1	202	2,604	2,604	2,606	2,652	2,763	4.2%	33.7%
Hungary			2	172	235	344	726	1,277	75.9%	105.0%
Ireland			1	2	6	16	24	36	49.4%	55.2%
Italy	19	34	3,592	18,901	19,283	19,682	20,108	20,900	3.9%	21.6%
Lithuania			0	69	70	74	82	103	25.6%	116.2%
Luxembourg		24	29	116	122	128	131	150	14.8%	19.8%
Macedonia				17	17	17	21	26	27.0%	
Malta		0	1	75	94	112	131	154	17.1%	79.4%
Netherlands	13	51	90	1,515	2,049	2,903	4,522	6,725	48.7%	61.5%
Norway	6	7	9	15	27	45	68	90	32.2%	29.1%
Poland				108	187	287	562	1,300	131.3%	
Portugal	1	2	134	447	513	579	667	828	24.0%	22.4%
Romania				1,326	1,372	1,374	1,386	1,386	0.0%	
Slovakia			19	533	533	528	472	472	0.0%	42.9%
Slovenia			12	238	233	247	221	222	0.4%	38.3%
Spain	10	52	3,873	4,704	4,713	4,723	4,764	8,761	83.9%	9.5%
Sweden	3	4	11	104	153	402	492	644	30.9%	57.2%
Switzerland	16	28	125	1,394	1,664	1,906	2,171	2,524	16.3%	39.6%
Turkey		2	6	249	833	3,421	5,063	5,995	18.4%	116.7%
Ukraine			3	841	955	1,200	2,003	5,936	196.4%	137.2%
United Kingdom	2	11	95	9,601	11,930	12,782	13,118	13,616	3.8%	73.6%
Others Europe	0	1	3	22	34	40	46	50	9.0%	38.2%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Russia and Central Asia		0	3	211	262	435	1,081	1,978	82.9%	106.6%
Russia				61	76	225	535	1,064	98.7%	
Armenia					1	2	17	50	188.7%	
Azerbaijan			0	5	25	28	35	37	5.7%	70.7%
Georgia					0	0	0	1	150.4%	
Kazakhstan		0	3	144	157	175	490	823	67.9%	89.7%
Uzbekistan				1	2	3	4	4	0.0%	

^(*) Data source: IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi.

Countries^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Middle East	0	1	85	1,007	1,498	2,087	3,351	5,561	65.9%	59.2%
Bahrain				5	6	6	6	6	0.0%	
Iran			0	9	43	184	286	367	28.2%	114.1%
Iraq				37	37	37	216	216	0.0%	
Israel		1	70	766	866	969	1,070	1,190	11.2%	37.0%
Jordan				39	313	384	841	1,240	47.5%	
Kuwait				3	31	32	43	43	0.6%	
Lebanon			0	11	24	38	56	56	0.0%	76.9%
Oman				2	2	8	8	8	0.0%	
Qatar				4	5	5	5	5	0.0%	
Saudi Arabia	0	0	2	24	24	34	34	344	901.5%	74.0%
United Arab Emirates			11	35	42	255	494	1,785	261.5%	76.4%
Yemen			1	60	80	100	250	250	0.0%	84.5%
Others Middle East				12	25	35	41	50	20.8%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Africa	11	26	194	1,923	2,972	3,723	5,195	6,365	22.5%	47.4%
Algeria				49	219	400	423	423	0.0%	
Angola		1	7	13	13	13	13	13	0.0%	7.3%
Dem.Rep.Congo				1	3	5	19	19	0.0%	
Egypt	0	1	15	25	48	169	750	1,647	119.6%	68.6%
Ghana				30	34	39	63	63	0.6%	
Kenya			0	31	32	38	93	95	2.2%	98.7%
Mauritania				18	35	35	87	88	0.8%	
Morocco	7	10	14	20	22	24	204	204	0.1%	35.2%
Mozambique				10	13	15	15	55	266.7%	
Namibia	1	2	4	21	36	70	88	135	54.2%	47.0%
Nigeria				17	18	19	19	28	46.5%	
Senegal	1	2	3	11	43	113	134	134	0.0%	51.0%
South Africa			2	1,252	1,974	2,186	2,559	2,561	0.1%	122.0%
Tunisia	1	1	2	27	37	47	47	62	31.9%	50.1%
Uganda	0	3	15	22	24	46	48	82	71.2%	20.9%
Others Africa	1	7	132	378	420	504	634	757	19.4%	21.4%

(*) Data source: IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi.

Countries^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Asia - Pacific	396	1,658	6,593	90,474	143,051	213,876	282,956	343,159	21.3%	55.1%
Australia	25	52	1,088	5,943	6,686	7,352	8,625	13,250	53.6%	32.0%
Bangladesh		2	32	145	161	185	201	284	41.2%	27.3%
China	34	141	1,022	43,538	77,788	130,801	175,016	205,072	17.2%	80.2%
India	1	12	65	5,365	9,651	17,923	27,127	34,831	28.4%	100.9%
Indonesia	0	1	15	51	58	60	62	198	218.1%	33.6%
Japan	330	1,421	3,599	28,615	38,438	44,226	55,500	61,840	11.4%	37.2%
Malaysia			1	229	279	370	536	882	64.6%	127.3%
Pakistan			9	230	546	1,018	1,169	1,329	13.7%	73.5%
Philippines		1	1	166	775	897	897	922	2.8%	113.5%
Singapore			3	46	97	118	160	255	59.3%	64.5%
South Korea	4	14	650	3,615	4,502	5,835	7,130	10,505	47.3%	36.2%
Sri Lanka	0	4	7	31	63	131	185	215	16.2%	46.4%
Taiwan	0	1	22	842	1,245	1,768	2,738	4,150	51.5%	79.0%
Thailand			49	1,420	2,446	2,697	2,962	2,982	0.7%	58.0%
Vietnam	1	3	5	6	6	9	106	5,695	5286.5%	117.4%
Others Asia - Pacific	1	6	26	234	312	486	542	749	38.1%	45.4%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Americas	202	545	3,281	26,197	38,683	49,841	64,131	76,956	20.0%	42.0%
Argentina				9	9	9	191	441	130.7%	
Brazil		1	2	27	84	1,104	2,078	2,485	19.6%	125.0%
Canada	7	17	221	2,517	2,661	2,913	3,100	3,310	6.8%	35.1%
Chile				576	1,125	1,809	2,137	2,648	23.9%	
Cuba				24	37	65	128	159	24.4%	
El Salvador	0	0	0	26	28	126	206	391	89.8%	174.7%
Guatemala	0	0	1	93	93	99	101	101	0.0%	76.6%
Honduras	2	3	4	393	414	454	514	514	0.0%	72.9%
Mexico	14	16	29	173	389	674	2,541	4,426	74.2%	74.8%
Peru	1	5	13	139	146	153	324	326	0.6%	43.7%
United States	176	493	2,909	21,684	32,958	41,357	51,426	60,540	17.7%	40.1%
Uruguay			0	65	90	244	251	258	2.8%	116.9%
Others Americas	2	11	103	471	649	833	1,134	1,357	19.6%	33.1%

(*) Data source: IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi.

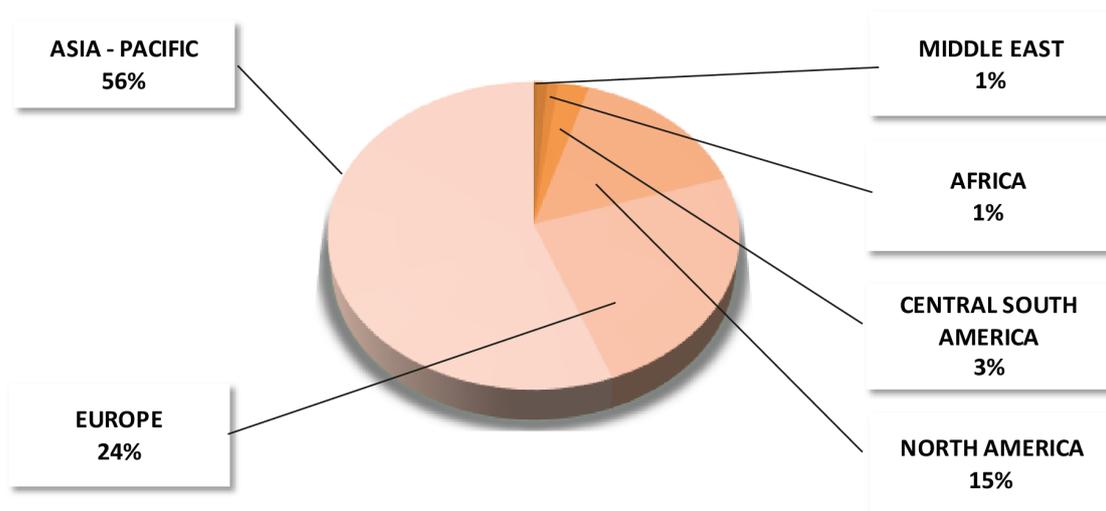
Areas and Aggregates^(*)

(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Europe	125	1,487	22,599	104,630	108,819	118,983	134,066		12.7%	47.4%
Russia and Central Asia				459	634	757	1,163	1,279	9.9%	
Middle East			94	1,496	2,474	3,514	5,128		45.9%	
Africa	4	15	318	2,519	3,655	5,063	5,277		4.2%	49.1%
Asia - Pacific	433	1,620	5,620	103,279	158,173	236,899	309,460		30.6%	44.1%
Americas	238	610	3,407	37,702	55,827	79,224	99,347		25.4%	39.8%
- North America	199	541	3,318	34,986	50,663	70,966	85,040	97,345	14.5%	38.5%
- Central South America	39	69	89	2,716	5,164	8,258	14,307		73.2%	38.8%
World	800	3,732	32,038	250,085	329,581	444,440	554,442		24.8%	43.8%
European Union	114	1,466	22,505	102,796	105,862	113,521	122,972	131,626	8.3%	47.4%
MENA		2	237	672	1,672	3,209	4,876		51.9%	
OECD	731	3,550	30,700	181,896	217,141	262,158	304,713		16.2%	39.8%
NON OECD	69	182	1,338	68,189	112,440	182,283	249,728		37.0%	57.7%
OPEC		2	29	377	458	1,478	2,263		53.1%	
NON OPEC	800	3,730	32,009	249,708	329,123	442,962	552,179		24.7%	43.8%

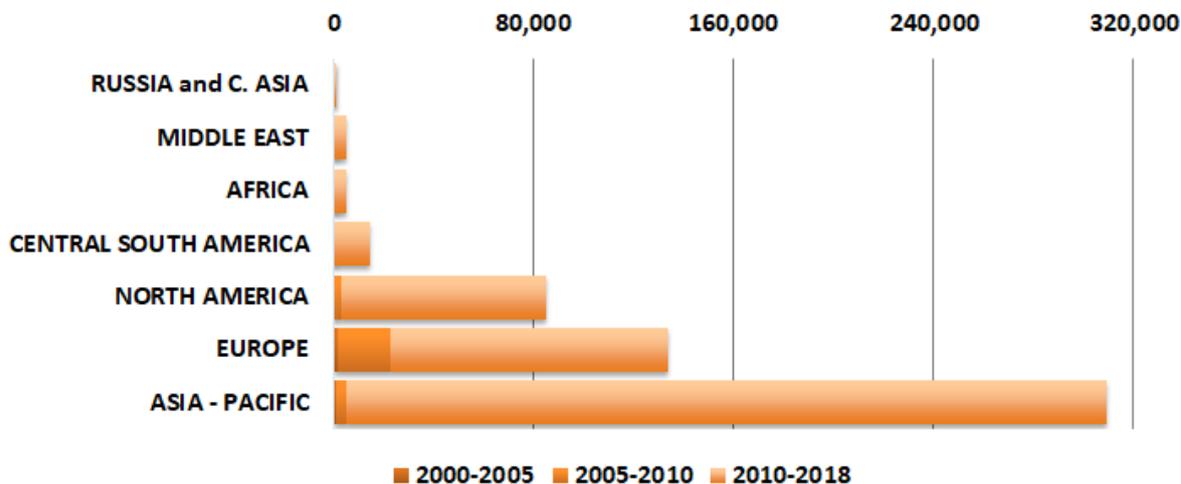
World Solar Photovoltaic Power Generation (2018)

554,442 GWh



World Solar Photovoltaic Power Generation Growth (2000-2018)

553,642 GWh



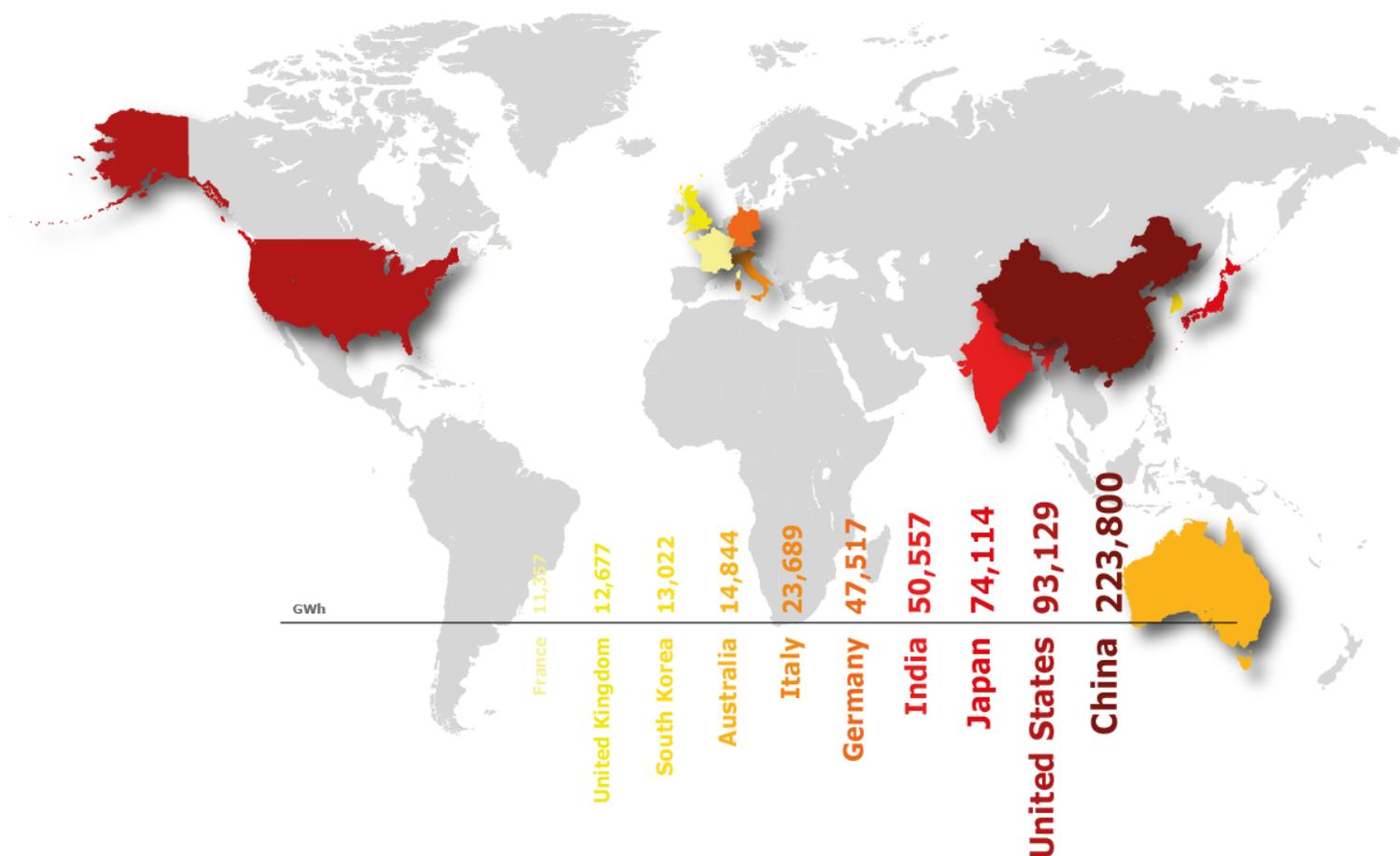
(*) Data source: Eni's calculations on IEA (2020) *Extended Balances* data. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

The World Top 10^(*) (GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
China	22	84	699	44,783	75,316	131,297	176,901	223,800	26.5%	62.5%
United States	183	524	3,063	32,091	46,633	67,393	81,244	93,129	14.6%	38.8%
Japan	357	1,421	3,543	34,803	45,761	55,069	62,668	74,114	18.3%	32.4%
India	2	3	126	10,420	18,778	26,035	39,728	50,557	27.3%	70.5%
Germany	60	1,282	11,729	38,726	38,098	39,401	45,784	47,517	3.8%	42.1%
Italy	18	31	1,906	22,942	22,104	24,378	22,654	23,689	4.6%	45.9%
Australia	38	78	386	5,019	6,205	8,069	9,926	14,844	49.5%	36.9%
South Korea	5	15	772	3,975	5,123	7,056	9,208	13,022	41.4%	51.3%
United Kingdom	1	8	40	7,533	10,408	11,475	12,857	12,677	-1.4%	64.4%
France	5	11	620	7,753	8,659	9,585	10,569	11,357	7.5%	49.9%
The World Top 10	691	3,456	22,884	208,045	277,085	379,758	471,539	564,705	19.8%	42.3%
Rest of the World	109	276	9,154	42,041	52,496	64,683	82,903		28.2%	44.6%
World	800	3,732	32,038	250,085	329,581	444,440	554,442		24.8%	43.8%

The World Top 10 (2019)



(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

Countries^(*)
(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Europe	125	1,487	22,599	104,630	108,819	118,983	134,066		12.7%	47.4%
Austria	3	21	89	937	1,096	1,269	1,438	1,702	18.4%	39.6%
Belgium		1	560	3,056	3,095	3,307	3,902	3,947	1.1%	
Bulgaria			15	1,383	1,386	1,403	1,343	1,405	4.6%	
Czech Republic			616	2,264	2,131	2,193	2,359	2,286	-3.1%	
Denmark	1	2	6	604	744	751	953	963	1.1%	43.6%
France	5	11	620	7,753	8,659	9,585	10,569	11,357	7.5%	49.9%
Germany	60	1,282	11,729	38,726	38,098	39,401	45,784	47,517	3.8%	42.1%
Greece		1	158	3,900	3,930	3,991	3,791	3,961	4.5%	
Hungary			1	141	244	349	620	1,386	123.5%	
Italy	18	31	1,906	22,942	22,104	24,378	22,654	23,689	4.6%	45.9%
Netherlands	8	35	56	1,109	1,602	2,208	3,693	5,159	39.7%	40.9%
Poland				57	124	165	300	712	137.0%	
Portugal	1	3	211	796	870	992	1,006	1,275	26.8%	45.7%
Romania				1,982	1,820	1,856	1,771	1,777	0.3%	
Spain	14	48	6,425	8,266	8,064	8,514	7,877	9,294	18.0%	40.8%
Switzerland	11	21	94	1,119	1,333	1,683	1,944	2,111	8.6%	31.9%
Turkey				194	1,043	2,889	7,800	9,578	22.8%	
United Kingdom	1	8	40	7,533	10,408	11,475	12,857	12,677	-1.4%	64.4%
Ukraine				477	491	739	1,108	998	-9.9%	
Others Europe	3	23	73	1,391	1,577	1,834	2,299		25.3%	44.5%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia				459	634	757	1,163	1,279	9.9%	
Russia				335	462	558	720	985	36.8%	
Armenia				1	1	3	19	13	-31.1%	
Azerbaijan				5	35	37	39	44	12.5%	
Kazakhstan				118	136	160	384	236	-38.6%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Middle East			94	1,496	2,474	3,514	5,128		45.9%	
Israel			70	1,115	1,544	1,511	1,574	2,597	65.0%	
Jordan				2	421	908	1,441		58.7%	
United Arab Emirates			17	49	48	477	1,070		124.6%	
Yemen			2	110	147	183	458		150.0%	
Others Middle East			5	220	314	436	586		34.4%	

(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

Countries^(*)
 (GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Africa	4	15	318	2,519	3,655	5,063	5,277		4.2%	49.1%
Algeria				58	87	572	655		14.7%	
Egypt			206	168	580	537	543		1.1%	
South Africa				1,946	2,509	3,249	3,212	3,255	1.3%	
Tunisia			1	65	109	133	174	174	0.0%	
Others Africa	4	15	111	282	370	572	693		21.1%	33.2%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Asia - Pacific	433	1,620	5,620	103,279	158,173	236,899	309,460		30.6%	44.1%
Australia	38	78	386	5,019	6,205	8,069	9,926	14,844	49.5%	36.9%
China	22	84	699	44,783	75,316	131,297	176,901	223,800	26.5%	62.5%
India	2	3	126	10,420	18,778	26,035	39,728	50,557	27.3%	70.5%
Japan	357	1,421	3,543	34,803	45,761	55,069	62,668	74,114	18.3%	32.4%
Malaysia		1	0	273	310	330	573		73.7%	
Philippines		2	1	139	1,097	1,201	1,249	1,246	-0.2%	
South Korea	5	15	772	3,975	5,123	7,056	9,208	13,022	41.4%	51.3%
Taiwan		1	26	875	1,132	1,692	2,740	4,144	51.3%	
Thailand			20	2,378	3,377	4,543	4,537	5,182	14.2%	
Pakistan				207	488	768	882		14.9%	
Others Asia-Pacific	9	15	47	407	586	840	1,048		24.8%	30.3%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Americas	238	610	3,407	37,702	55,827	79,224	99,347		25.4%	39.8%
Argentina				15	14	16	108	800	639.6%	
Brazil				59	85	832	3,461	6,655	92.2%	
Canada	16	17	255	2,895	4,030	3,573	3,796	4,216	11.1%	34.1%
Chile				1,261	2,639	3,915	5,218	6,304	20.8%	
Honduras				417	881	924	993		7.5%	
Mexico	7	9	31	239	464	1,085	1,856	6,591	255.0%	43.4%
Peru				230	241	287	750	767	2.2%	
United States	183	524	3,063	32,091	46,633	67,393	81,244	93,129	14.6%	38.8%
Others Americas	32	60	58	495	840	1,199	1,920		60.1%	25.5%

(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

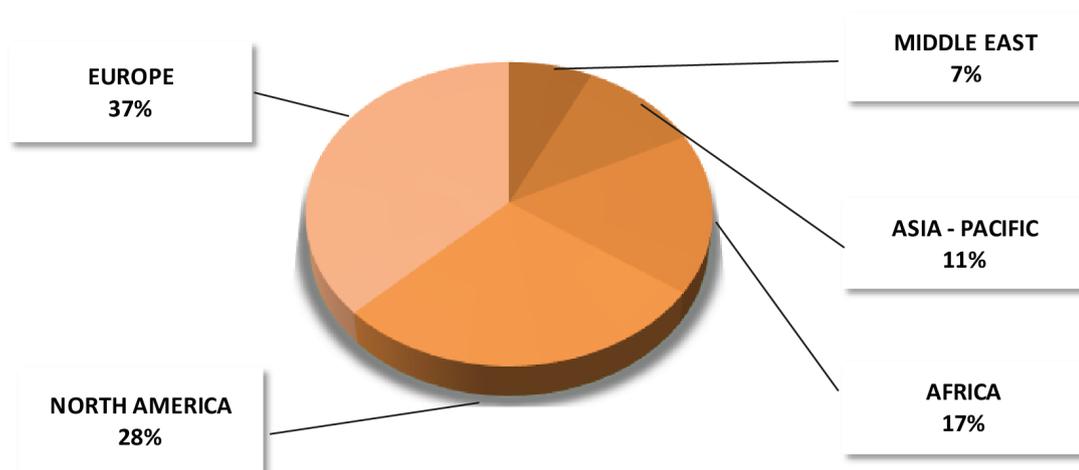
Areas and Aggregates^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Europe			739	2,313	2,322	2,327	2,327	2,336	0.4%	13.6%
Middle East			6	106	106	106	156	448	186.9%	61.2%
Africa			45	325	425	525	976	1,076	10.2%	42.3%
Asia - Pacific		0	3	248	258	257	507	657	29.6%	82.0%
Americas	419	388	473	1,758	1,758	1,758	1,772	1,772	0.0%	15.8%
- North America	419	388	473	1,758	1,758	1,758	1,758	1,758	0.0%	15.7%
- Central South America							14	14	0.0%	
World	419	388	1,266	4,750	4,869	4,973	5,738	6,289	9.6%	19.5%
European Union			739	2,312	2,321	2,326	2,326	2,335	0.4%	13.6%
MENA			51	331	331	331	732	1,024	39.9%	39.5%
OECD	419	388	1,221	4,080	4,089	4,093	4,107	4,358	6.1%	15.2%
NON OECD			45	669	779	879	1,631	1,931	18.4%	51.8%
OPEC	0	0	25	125	125	125	175	225	28.6%	27.7%
NON OPEC	419	388	1,241	4,625	4,744	4,848	5,563	6,064	9.0%	19.3%

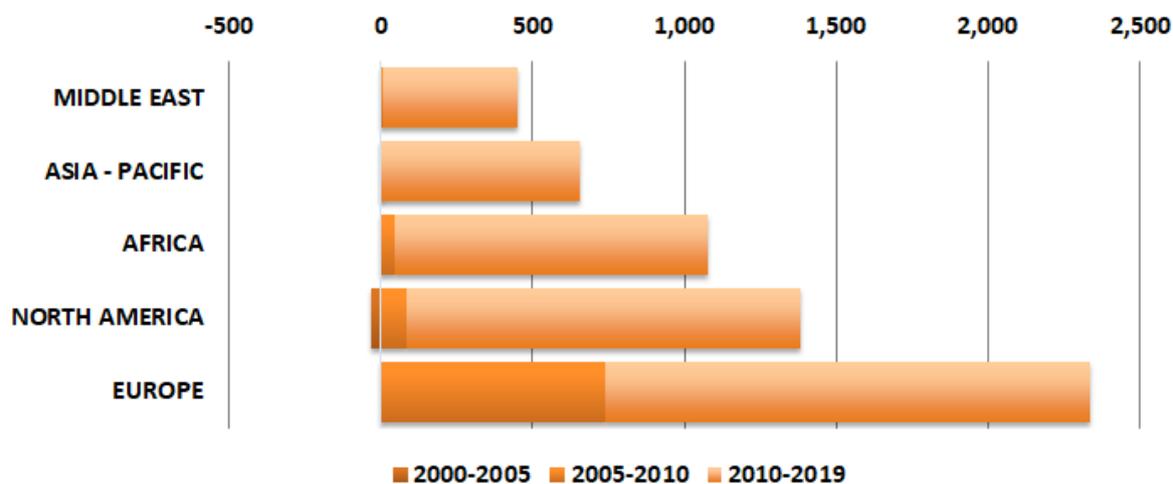
World Concentrated Solar Power Capacity (2019)

6,289 MW



World Concentrated Solar Power Capacity Growth (2000-2019)

5,870 MW



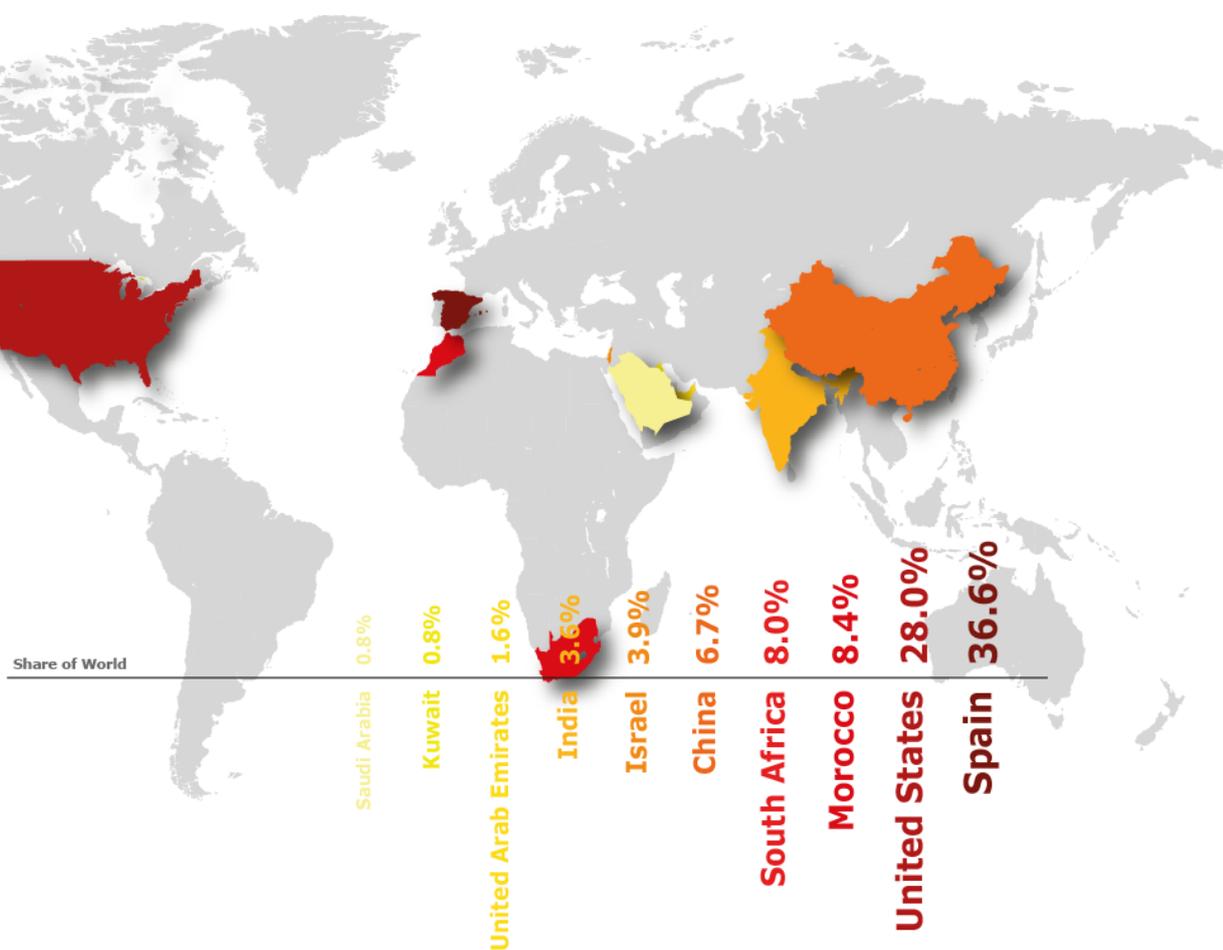
^(*) Data source: Eni's calculations on IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi, data.

The World Top 10^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Spain			732	2,304	2,304	2,304	2,304	2,304	0.0%	13.6%
United States	419	388	473	1,758	1,758	1,758	1,758	1,758	0.0%	15.7%
Morocco			20	180	180	180	530	530	0.0%	43.9%
South Africa				100	200	300	400	500	25.0%	
China				11	21	21	271	421	55.4%	
Israel			6	6	6	6	6	248	3967.2%	50.9%
India				229	229	229	229	229	0.0%	
United Arab Emirates				100	100	100	100	100	0.0%	
Kuwait								50		
Saudi Arabia							50	50	0.0%	
The World Top 10	419	388	1,231	4,688	4,798	4,898	5,648	6,190	9.6%	19.7%
Rest of the World		0	35	62	71	75	90	99	10.0%	12.4%
World	419	388	1,266	4,750	4,869	4,973	5,738	6,289	9.6%	19.5%

The World Top 10 (2019)



^(*) Data source: IRENA (2020), *Renewable Energy Statistics* 2020 The International Renewable Energy Agency, Abu Dhabi.

Countries^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Europe			739	2,313	2,322	2,327	2,327	2,336	0.4%	13.6%
France								9		
Germany			2	2	2	2	2	2	0.0%	0.0%
Italy			5	6	6	6	6	6	0.0%	2.8%
Portugal					9	14	14	14	0.0%	
Spain			732	2,304	2,304	2,304	2,304	2,304	0.0%	13.6%
Turkey				1	1	1	1	1	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Middle East			6	106	106	106	156	448	186.9%	61.2%
Kuwait								50		
Israel			6	6	6	6	6	248	3967.2%	50.9%
Saudi Arabia							50	50	0.0%	
United Arab Emirates				100	100	100	100	100	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Africa			45	325	425	525	976	1,076	10.2%	42.3%
Algeria			25	25	25	25	25	25	0.0%	0.0%
Egypt				20	20	20	21	21	0.0%	
Morocco			20	180	180	180	530	530	0.0%	43.9%
South Africa				100	200	300	400	500	25.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Asia - Pacific		0	3	248	258	257	507	657	29.6%	82.0%
Australia		0	3	3	3	2	2	2	0.0%	-4.4%
China				11	21	21	271	421	55.4%	
India				229	229	229	229	229	0.0%	
Thailand				5	5	5	5	5	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2010)
Americas	419	388	473	1,758	1,758	1,758	1,772	1,772	0.0%	15.8%
Mexico							14	14	0.0%	
United States	419	388	473	1,758	1,758	1,758	1,758	1,758	0.0%	15.7%

(*) Data source: IRENA (2020), *Renewable Energy Statistics* 2020 The International Renewable Energy Agency, Abu Dhabi.

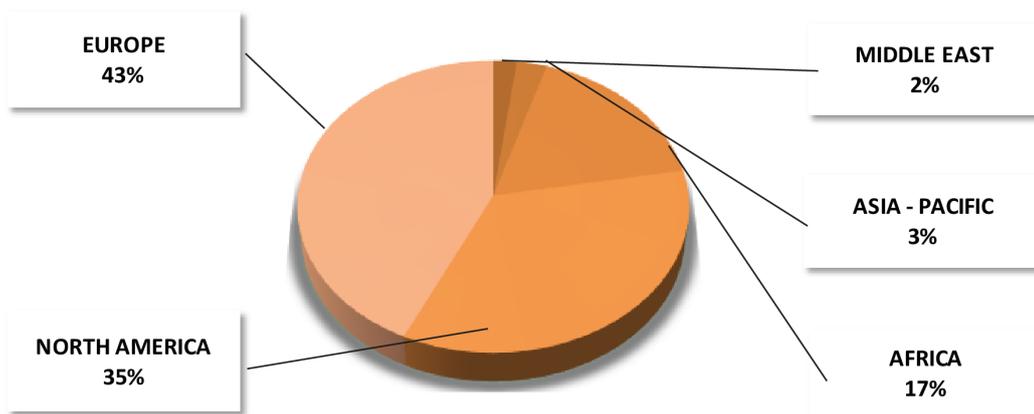
Areas and Aggregates^(*)

(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Europe			761	5,593	5,579	5,883	4,867	5,743	18.0%	
Middle East				243	261	257	233		-9.4%	
Africa				194	898	1,101	1,978	3,133	58.4%	
Asia - Pacific		1	5	31	33	31	303	305	0.5%	
Americas	526	596	879	3,544	3,701	3,587	3,940	4,517	14.6%	12.0%
- North America	526	596	879	3,544	3,701	3,587	3,940	4,517	14.6%	12.0%
World	526	597	1,645	9,605	10,472	10,859	11,321		4.3%	18.6%
European Union			761	5,593	5,579	5,883	4,867	5,743	18.0%	
MENA				247	661	671	1,182		76.0%	
OECD	526	597	1,643	9,141	9,284	9,472	8,810	10,264	16.5%	16.9%
NON OECD			2	464	1,188	1,387	2,511		81.1%	
OPEC				243	261	257	233		-9.4%	
NON OPEC	526	597	1,645	9,362	10,211	10,601	11,088		4.6%	18.5%

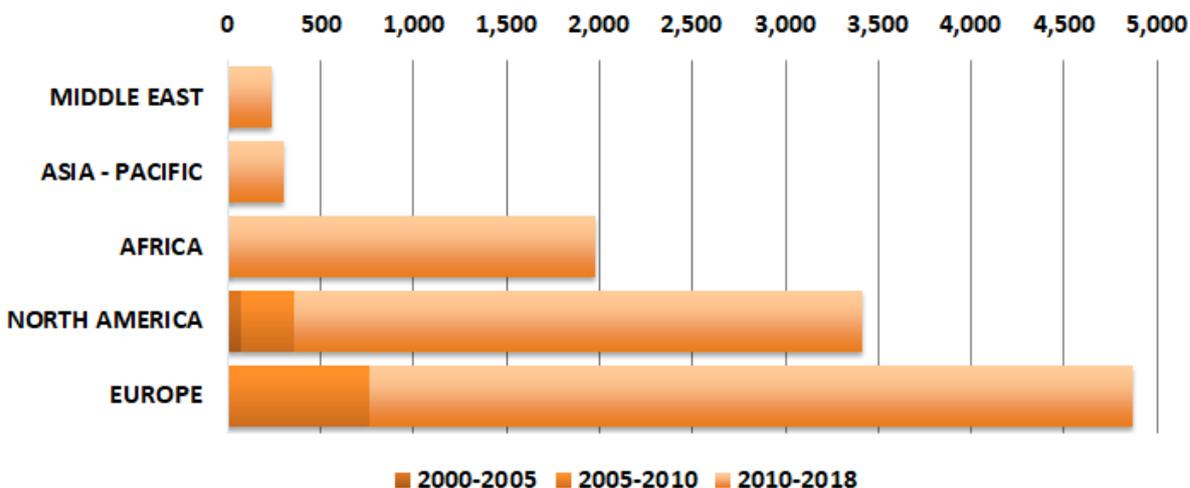
World Concentrated Solar Power Generation (2018)

11,321 GWh



World Concentrated Solar Power Generation Growth (2000-2018)

10,795 GWh



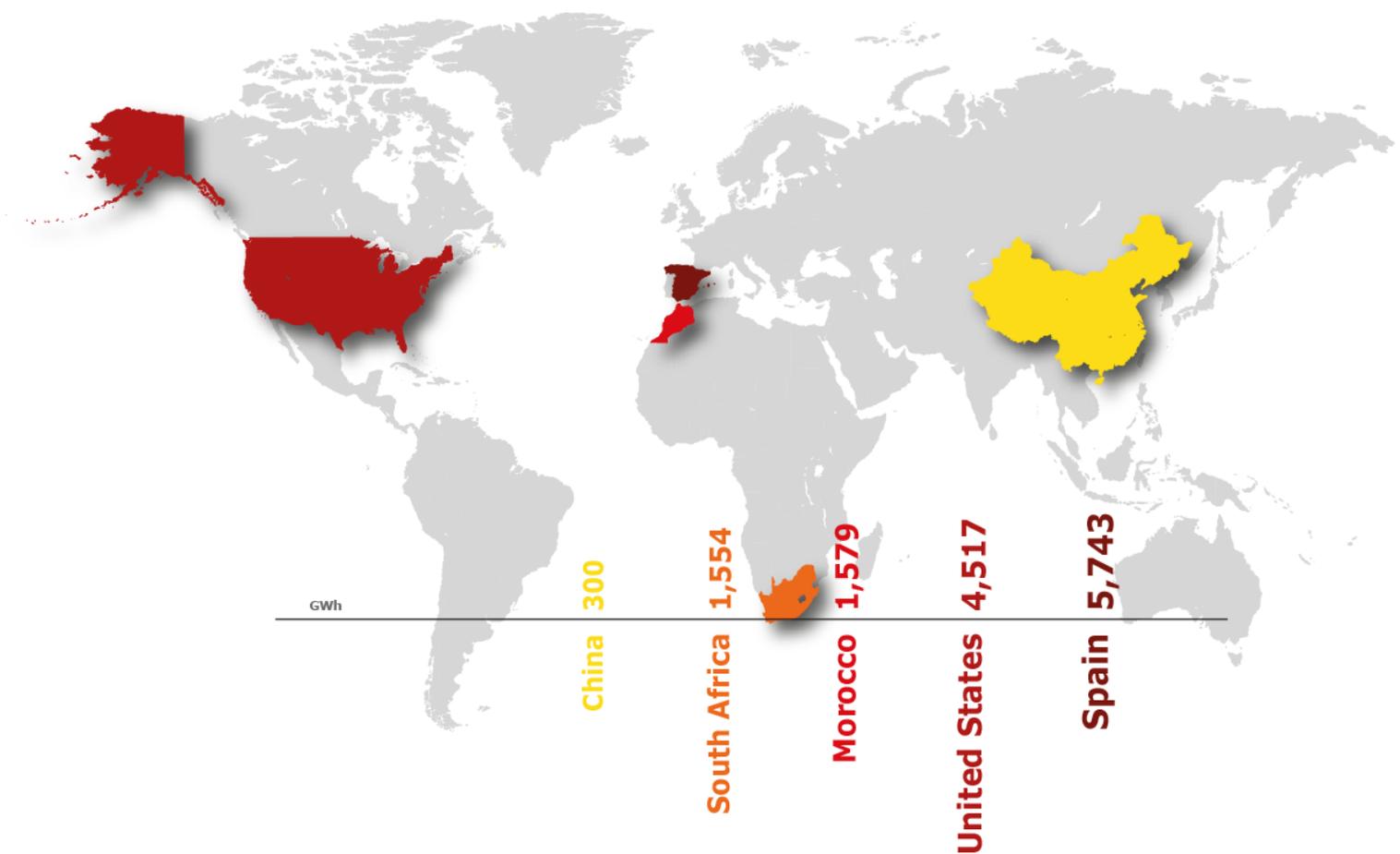
(*) Data source: Eni's calculations on IEA (2020) *Extended Balances* data. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

The World Top 5^(*) (GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Spain			761	5,593	5,579	5,883	4,867	5,743	18.0%	
United States	526	596	879	3,544	3,701	3,587	3,940	4,517	14.6%	12.0%
Morocco				4	400	414	949	1,579	66.4%	
South Africa				190	498	687	1,029	1,554	51.0%	
China			2	27	29	29	300	300	0.0%	
The World Top 5	526	596	1,642	9,358	10,207	10,599	11,085	13,693	23.5%	18.5%
Rest of the World		1	3	247	265	259	236		-9.0%	
World	526	597	1,645	9,605	10,472	10,859	11,321		4.3%	18.6%

The World Top 5 (2019)



(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

Countries^(*)

(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe			761	5,593	5,579	5,883	4,867	5,743	18.0%	
Spain			761	5,593	5,579	5,883	4,867	5,743	18%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)
Middle East				243	261	257	233		-9.4%	
United Arab Emirates				243	261	257	233		-9.4%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa				194	898	1,101	1,978	3,133	58.4%	
Morocco				4	400	414	949	1,579	66%	
South Africa				190	498	687	1,029	1,554	51%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific		1	5	31	33	31	303	305	0.5%	
Australia		1	3	4	4	2	3	4	49.7%	
China			2	27	29	29	300	300	0.0%	

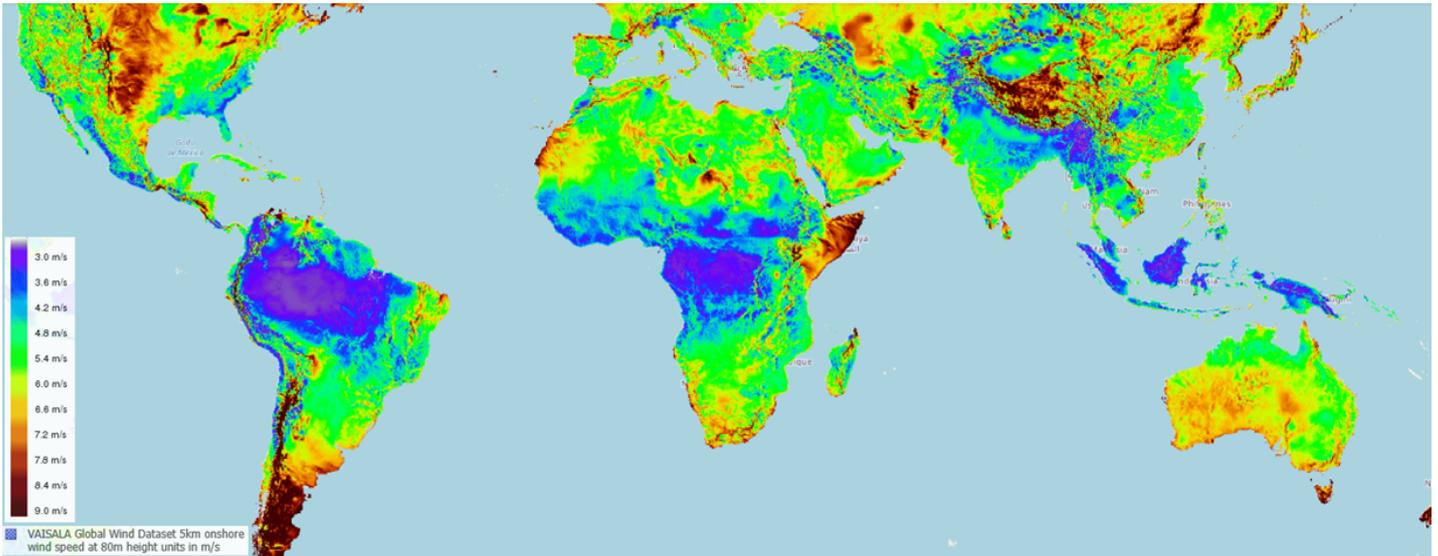
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	526	596	879	3,544	3,701	3,587	3,940	4,517	14.6%	12.0%
United States	526	596	879	3,544	3,701	3,587	3,940	4,517	14.6%	12.0%

(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

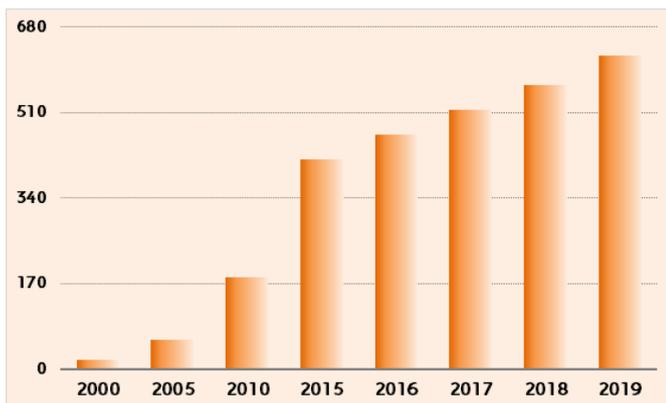
(**) When 2019 data is missing, the figure refers to the latest available years.

Wind Resources Map (Average Wind Speed)^(*)

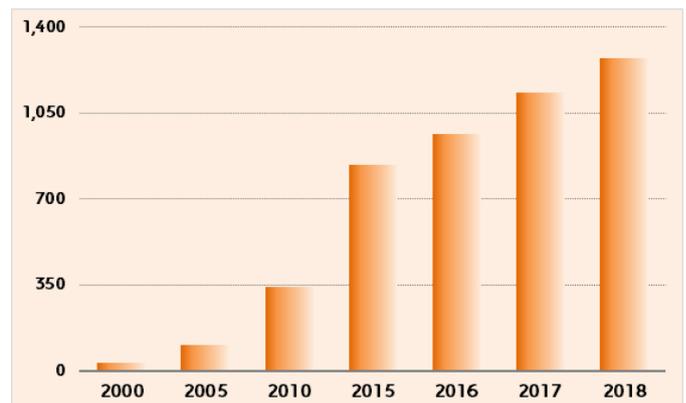
(m/s)



Wind Power Capacity (GW)

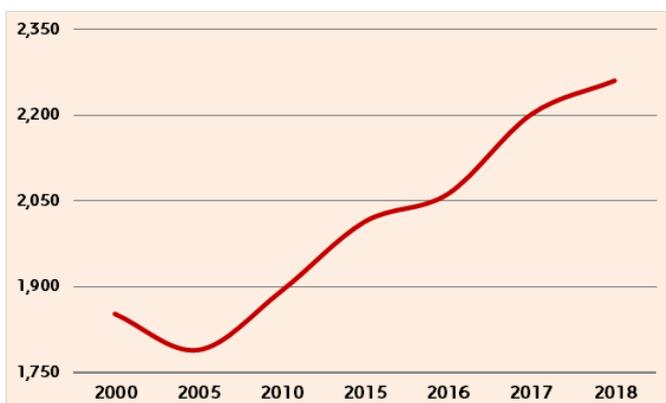


Wind Power Generation (TWh)

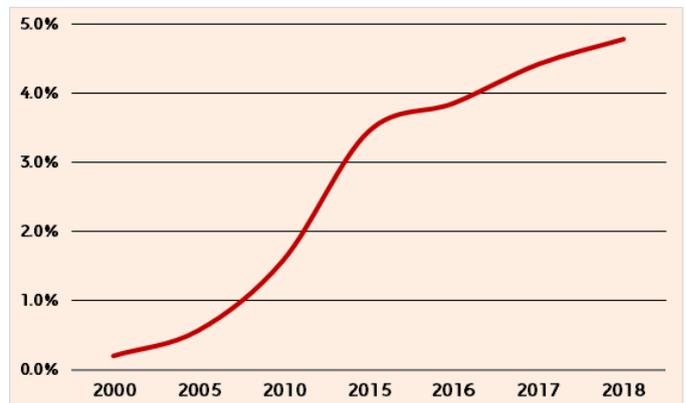


Capacity Factor

(hours per year - world average)



Share of Solar on Total Power Generation



^(*) IRENA: Global Atlas, Map data: 'VAISALA Global Wind Dataset 5km onshore wind speed at 80m height units in m/s, ©2020 OpenStreetMap contributors (<https://www.openstreetmap.org/copyright>).

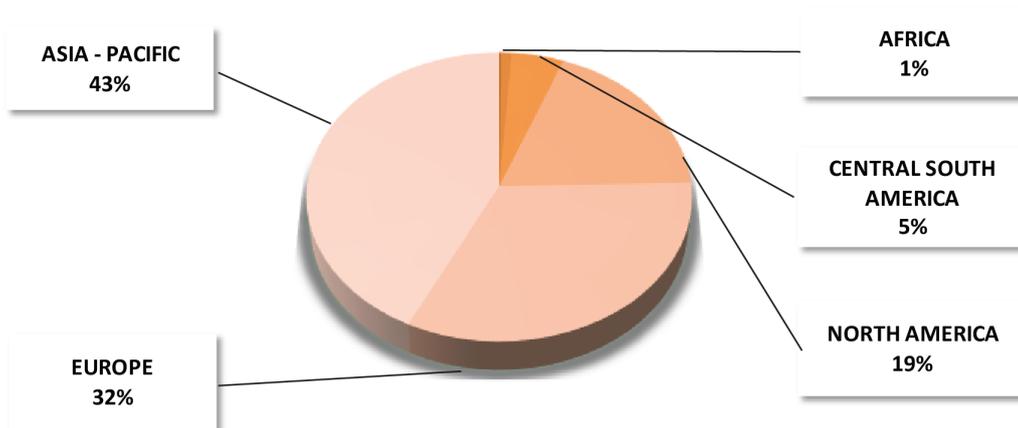
Areas and Aggregates^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	12,750	40,705	86,240	147,536	161,507	177,149	188,391	203,368	7.9%	15.7%
Russia and Central Asia	3	13	15	93	148	163	264	476	80.5%	30.6%
Middle East	12	45	104	286	410	505	614	723	17.8%	23.9%
Africa	133	237	861	3,318	3,830	4,582	5,470	5,770	5.5%	21.9%
Asia - Pacific	1,452	7,811	48,519	166,704	189,152	210,456	235,494	265,915	12.9%	31.6%
Americas	2,576	9,594	45,106	98,303	111,796	121,520	132,953	146,157	9.9%	23.7%
- North America	2,469	9,383	43,103	83,787	93,259	100,000	107,233	116,997	9.1%	22.5%
- Central South America	107	211	2,004	14,516	18,537	21,520	25,720	29,160	13.4%	34.3%
World	16,927	58,405	180,846	416,241	466,844	514,376	563,186	622,408	10.5%	20.9%
European Union	12,672	40,243	84,161	140,471	152,558	166,471	177,021	188,922	6.7%	15.3%
MENA	145	263	928	2,083	2,312	2,533	3,219	3,578	11.2%	18.4%
OECD	15,274	51,758	132,571	236,605	261,391	284,270	304,315	330,997	8.8%	17.6%
NON OECD	1,653	6,647	48,275	179,636	205,453	230,106	258,870	291,412	12.6%	31.3%
OPEC	11	39	100	263	300	381	404	424	5.0%	21.2%
NON OPEC	16,916	58,366	180,746	415,977	466,544	513,995	562,782	621,985	10.5%	20.9%

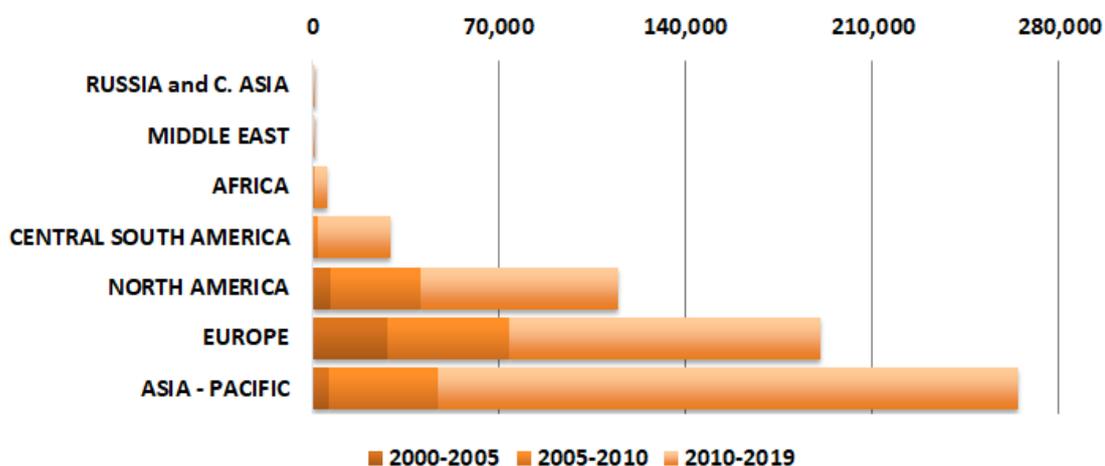
World Wind Power Capacity (2019)

622,408 MW



World Wind Power Capacity Growth (2000-2019)

605,481 MW

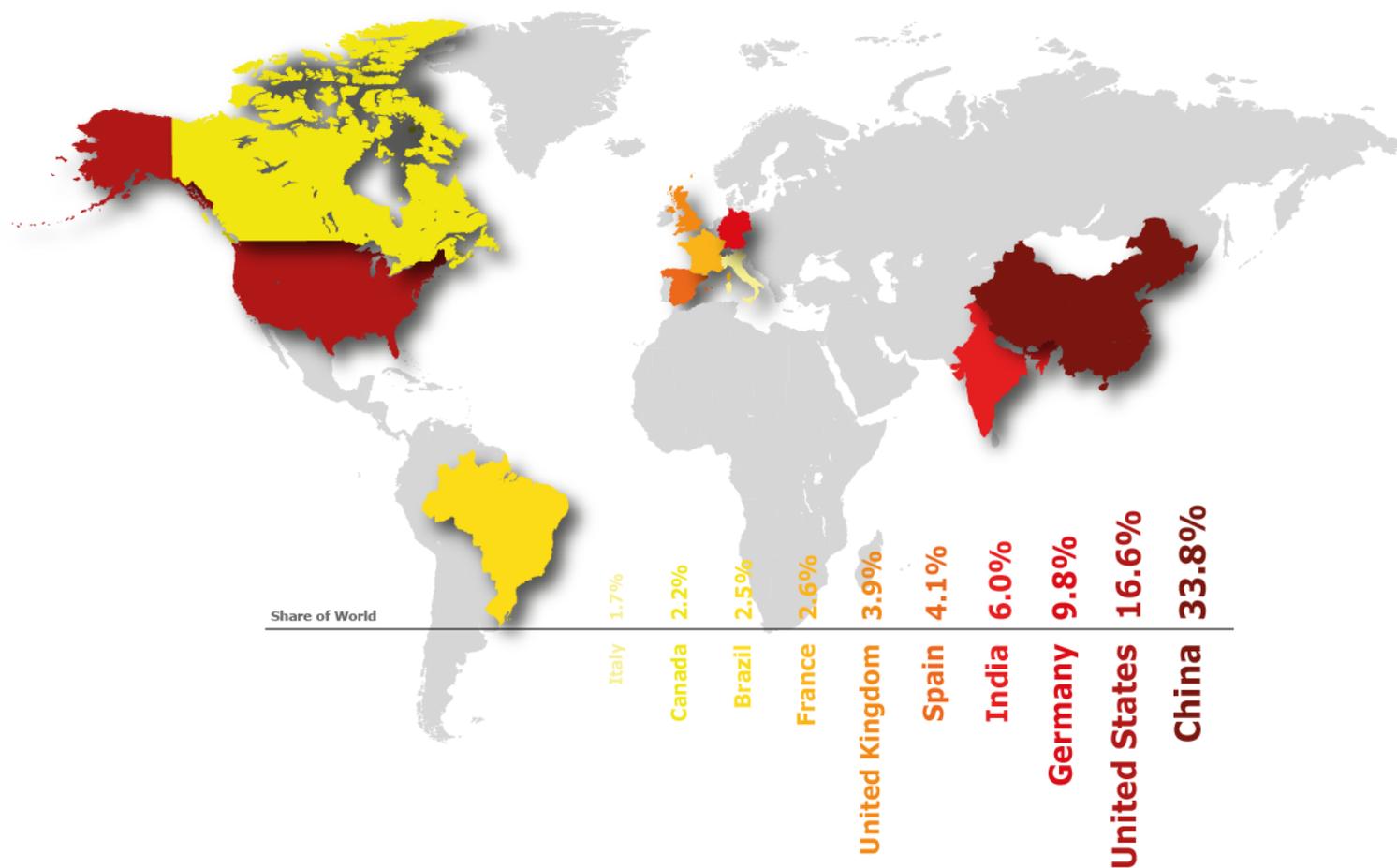


^(*) Data source: Eni's calculations on IRENA (2020), *Renewable Energy Statistics* 2020 The International Renewable Energy Agency, Abu Dhabi, data.

The World Top 10^(*) (MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
China	341	1,060	29,633	131,048	148,517	164,374	184,665	210,478	14.0%	40.2%
United States	2,377	8,706	39,135	72,573	81,286	87,597	94,417	103,584	9.7%	22.0%
Germany	6,095	18,248	26,903	44,580	49,435	55,580	58,843	60,840	3.4%	12.9%
India	941	4,434	13,184	25,088	28,700	32,848	35,288	37,505	6.3%	21.4%
Spain	2,206	9,918	20,693	22,943	22,990	23,124	23,405	25,553	9.2%	13.8%
United Kingdom	412	1,565	5,421	14,306	16,126	19,585	21,770	23,975	10.1%	23.8%
France	38	690	5,912	10,298	11,567	13,499	14,900	16,260	9.1%	37.6%
Brazil	22	29	927	7,633	10,124	12,294	14,833	15,364	3.6%	41.2%
Canada	92	677	3,967	11,214	11,973	12,403	12,816	13,413	4.7%	30.0%
Italy	363	1,635	5,794	9,137	9,384	9,737	10,230	10,758	5.2%	19.5%
The World Top 10	12,887	46,962	151,570	348,820	390,102	431,042	471,168	517,731	9.9%	21.5%
Rest of the world	4,040	11,443	29,276	67,421	76,742	83,334	92,018	104,678	13.8%	18.7%
World	16,927	58,405	180,846	416,241	466,844	514,376	563,186	622,408	10.5%	20.9%

The World Top 10 (2019)



^(*) Data source: IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi.

Countries^(*)

(MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	12,750	40,705	86,240	147,536	161,507	177,149	188,391	203,368	7.9%	15.7%
Austria	50	825	1,016	2,489	2,730	2,887	3,133	3,159	0.8%	24.4%
Belgium	14	167	912	2,176	2,370	2,797	3,261	3,780	15.9%	34.3%
Bulgaria		8	488	699	699	698	699	699	0.0%	
Croatia		6	79	418	483	576	586	606	3.4%	
Denmark	2,390	3,128	3,802	5,077	5,246	5,490	6,121	6,117	-0.1%	5.1%
Finland	38	82	197	1,005	1,565	2,044	2,041	2,282	11.8%	24.1%
France	38	690	5,912	10,298	11,567	13,499	14,900	16,260	9.1%	37.6%
Germany	6,095	18,248	26,903	44,580	49,435	55,580	58,843	60,840	3.4%	12.9%
Greece	226	491	1,298	2,091	2,370	2,624	2,877	3,547	23.3%	15.6%
Ireland	117	493	1,390	2,451	2,786	3,318	3,676	4,172	13.5%	20.7%
Italy	363	1,635	5,794	9,137	9,384	9,737	10,230	10,758	5.2%	19.5%
Netherlands	447	1,224	2,237	3,391	4,257	4,202	4,393	4,463	1.6%	12.9%
Norway	13	265	425	867	883	1,207	1,207	2,444	102.5%	31.7%
Poland	4	121	1,108	4,886	5,747	5,759	5,766	5,917	2.6%	46.8%
Portugal	83	1,064	3,796	4,937	5,124	5,124	5,172	5,233	1.2%	24.4%
Romania		1	389	3,130	3,025	3,030	3,032	3,040	0.3%	
Spain	2,206	9,918	20,693	22,943	22,990	23,124	23,405	25,553	9.2%	13.8%
Sweden	209	522	2,017	5,819	6,435	6,611	7,300	8,888	21.8%	21.8%
Turkey	19	21	1,320	4,503	5,751	6,516	7,005	7,591	8.4%	37.1%
Ukraine	5	77	88	514	526	553	621	1,258	102.6%	33.8%
United Kingdom	412	1,565	5,421	14,306	16,126	19,585	21,770	23,975	10.1%	23.8%
Others Europe	21	154	955	1,820	2,009	2,188	2,351	2,786	18.5%	29.2%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	3.00	13	15	93	148	163	264	476	80.5%	30.6%
Russia	3	10	10	11	11	11	52	102	96.3%	20.4%
Armenia		3	3	3	3	3	3	3	0.0%	
Azerbaijan			2	8	16	16	66	66	0.0%	
Georgia					21	21	21	21	0.0%	
Kazakhstan				72	98	112	121	284	133.7%	
Uzbekistan						1	1	1	0.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Middle East	12	45	104	286	410	505	614	723	17.8%	23.9%
Iran	11	37	95	153	191	259	282	302	7.2%	19.1%
Israel		6	6	6	27	27	27	27	0.0%	
Jordan	1	1	1	118	184	198	285	374	31.3%	34.2%
Kuwait				2	2	12	12	12	0.0%	
Others Middle East		1	1	6	5	8	8	8	0.0%	

^(*) Data source: IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi.

Countries^(*)
 (MW)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Africa	133	237	861	3,318	3,830	4,582	5,470	5,770	5.5%	21.9%
Egypt	69	145	550	750	750	750	1,125	1,375	22.2%	17.1%
Morocco	54	54	221	797	897	1,023	1,225	1,225	0.0%	17.9%
South Africa		3	10	1,079	1,473	2,094	2,094	2,094	0.0%	
Others Africa		35	80	692	710	715	1,026	1,076	4.9%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Asia - Pacific	1,452	7,811	48,519	166,704	189,152	210,456	235,494	265,915	12.9%	31.6%
Australia	33	740	1,864	4,234	4,327	4,816	5,679	7,133	25.6%	32.7%
China	341	1,060	29,633	131,048	148,517	164,374	184,665	210,478	14.0%	40.2%
India	941	4,434	13,184	25,088	28,700	32,848	35,288	37,505	6.3%	21.4%
Japan	84	1,227	2,294	2,808	3,247	3,483	3,667	3,786	3.2%	22.2%
Pakistan			6	308	591	789	1,186	1,236	4.2%	
South Korea	7	99	382	847	1,067	1,215	1,420	1,512	6.5%	32.7%
Taiwan	3	24	476	647	682	692	713	845	18.5%	35.6%
Thailand			6	234	507	628	1,103	1,507	36.6%	
Others Asia-Pacific	43	227	674	1,490	1,514	1,610	1,773	1,912	7.9%	22.1%

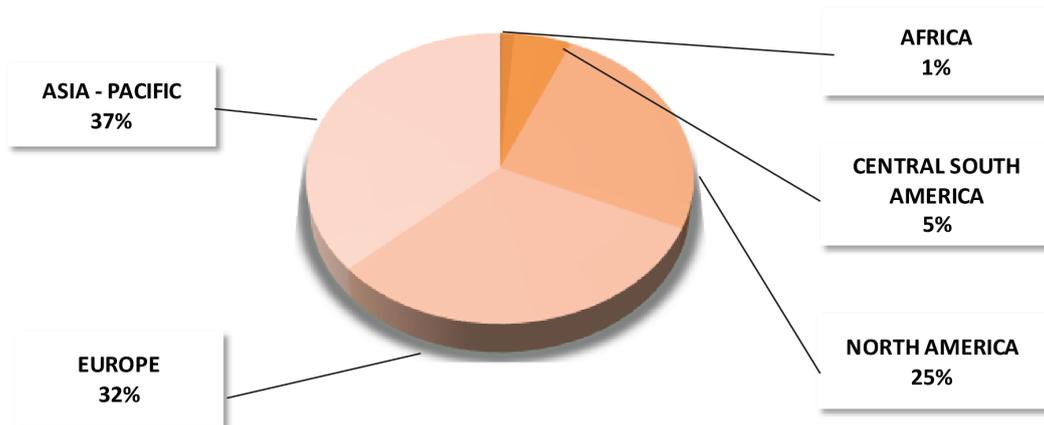
	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Americas	2,576	9,594	45,106	98,303	111,796	121,520	132,953	146,157	9.9%	23.7%
Argentina	14	28	28	187	187	227	750	1,609	114.5%	28.3%
Brazil	22	29	927	7,633	10,124	12,294	14,833	15,364	3.6%	41.2%
Canada	92	677	3,967	11,214	11,973	12,403	12,816	13,413	4.7%	30.0%
Chile		2	163	910	1,039	1,305	1,524	1,620	6.3%	
Mexico	17	18	519	3,271	4,051	4,199	4,875	6,591	35.2%	36.8%
United States	2,377	8,706	39,135	72,573	81,286	87,597	94,417	103,584	9.7%	22.0%
Uruguay			41	857	1,212	1,516	1,516	1,521	0.4%	
Others Americas	54	134	327	1,658	1,924	1,980	2,222	2,455	10.5%	22.2%

^(*) Data source: IRENA (2020), *Renewable Energy Statistics 2020* The International Renewable Energy Agency, Abu Dhabi.

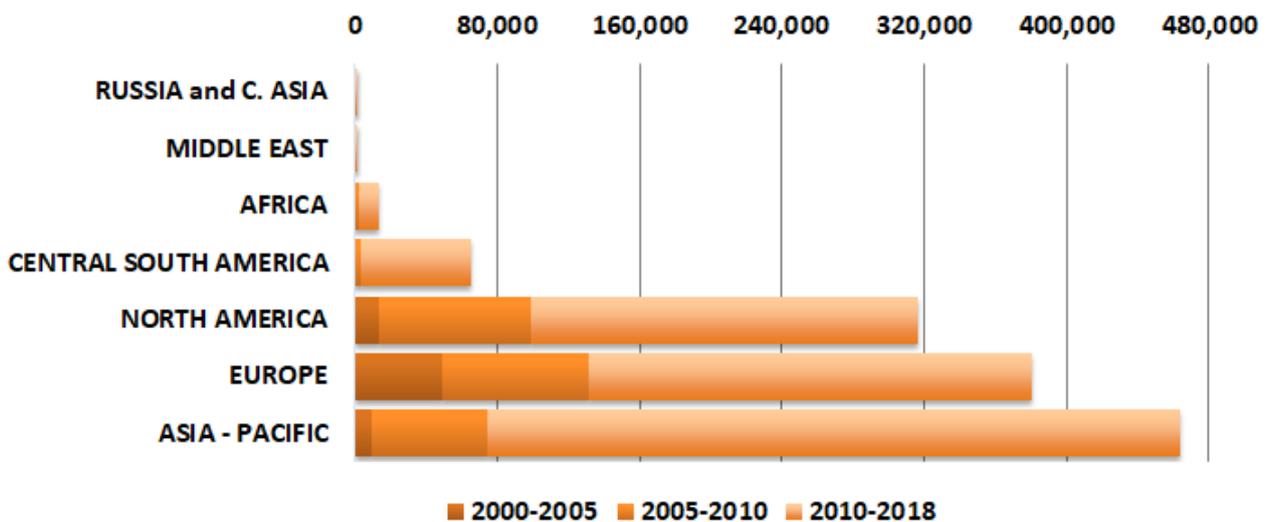
Areas and Aggregates^(*)
(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Europe	22,296	71,602	154,012	319,000	322,907	384,181	403,208	460,777	14.3%	17.3%
Russia and Central Asia	2	7	12	288	457	592	861	1,057	22.7%	39.1%
Middle East	40	85	174	360	659	959	1,297		35.2%	21.3%
Africa	232	819	2,373	8,555	10,464	11,535	14,170		22.8%	25.7%
Asia - Pacific	2,614	11,748	77,063	245,696	312,709	380,455	466,339		22.6%	33.4%
Americas	6,164	20,204	108,568	259,834	315,707	355,029	387,534		9.2%	25.9%
- North America	5,933	19,467	105,111	228,701	270,779	299,202	321,893	355,190	10.3%	24.0%
- Central South America	231	737	3,457	31,133	44,928	55,828	65,641		17.6%	36.9%
World	31,348	104,465	342,202	833,732	962,903	1,132,752	1,273,409		12.4%	22.9%
European Union	22,223	70,997	150,127	303,479	303,989	361,939	377,423	430,331	14.0%	16.9%
MENA	264	874	2,462	5,397	6,355	6,604	7,778		17.8%	20.7%
OECD	28,282	93,302	266,960	553,237	601,943	691,312	736,380	829,070	12.6%	19.5%
NON OECD	3,066	11,163	75,242	280,496	360,960	441,441	537,030		21.7%	33.2%
OPEC	37	71	166	415	439	478	550		15.0%	16.2%
NON OPEC	31,311	104,394	342,036	833,317	962,464	1,132,275	1,272,860		12.4%	22.9%

World Wind Power Generation (2018)
1,273,409 GWh



World Wind Power Generation Growth (2000-2018)
1,242,062 GWh



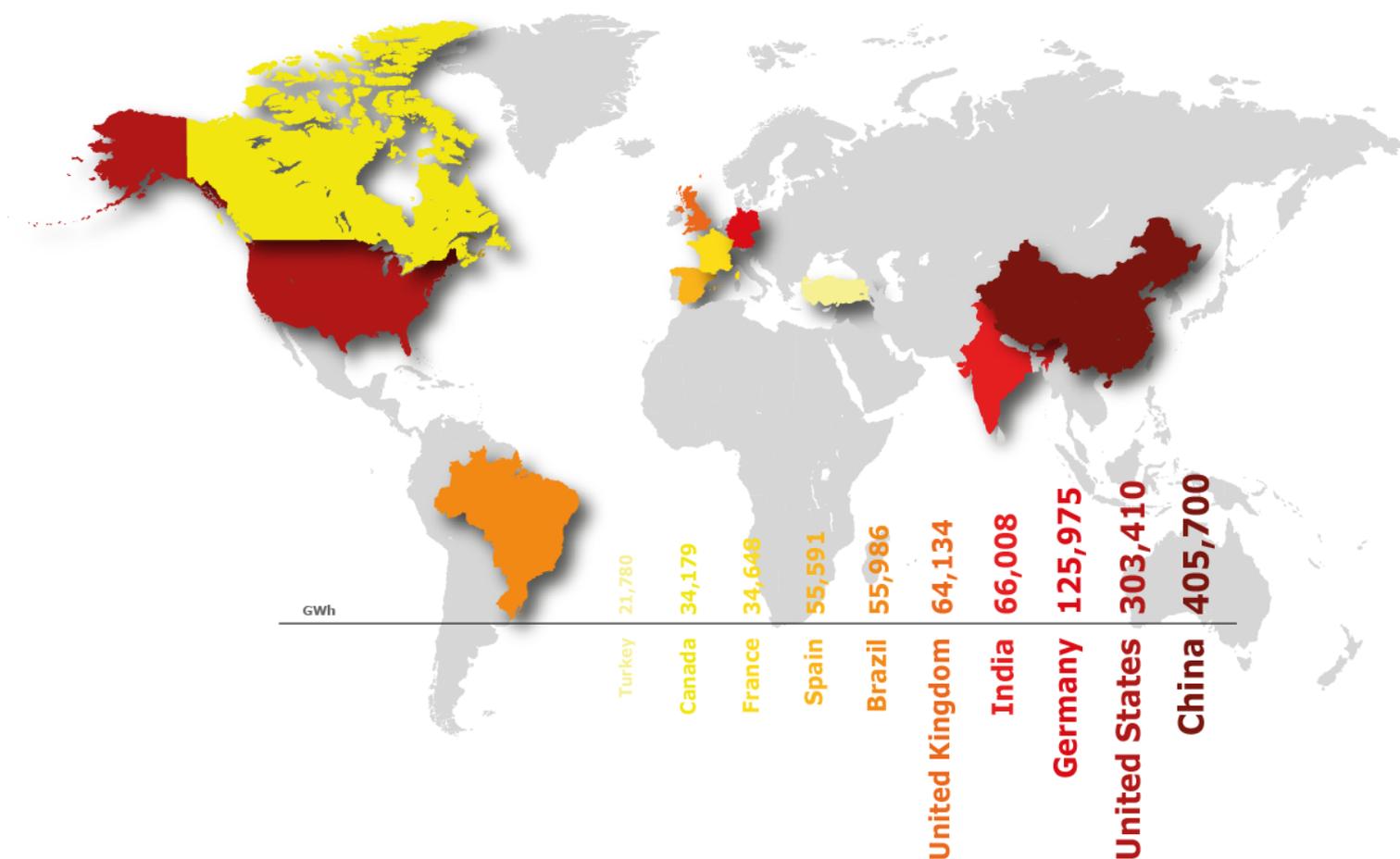
(*) Data source: Eni's calculations on IEA (2020) *Extended Balances* data. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

The World Top 10^(*) (GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
China	615	2,028	44,623	185,767	237,072	295,024	365,801	405,700	10.9%	40.7%
United States	5,650	17,881	95,148	192,992	229,471	257,249	275,834	303,410	10.0%	23.3%
Germany	9,352	27,774	38,547	80,624	79,924	105,693	109,951	125,975	14.6%	14.7%
India	1,684	6,211	19,657	35,075	48,281	54,994	64,294	66,008	2.7%	21.3%
United Kingdom	947	2,904	10,286	40,275	37,155	49,633	56,904	64,134	12.7%	24.8%
Brazil	2	93	2,177	21,626	33,488	42,373	48,475	55,986	15.5%	71.4%
Spain	4,727	21,176	44,271	49,325	48,905	49,127	50,896	55,591	9.2%	13.9%
France	48	962	9,945	21,421	21,381	24,609	28,599	34,648	21.1%	41.4%
Canada	264	1,567	8,724	26,964	30,930	31,511	33,183	34,179	3.0%	29.2%
Turkey	33	59	2,916	11,652	15,517	17,904	19,949	21,780	9.2%	40.7%
The World Top 10	23,322	80,655	276,294	665,720	782,124	928,118	1,053,887	1,167,410	10.8%	22.9%
Rest of the World	8,026	23,810	65,908	168,012	180,779	204,635	219,523		7.3%	20.2%
World	31,348	104,465	342,202	833,732	962,903	1,132,752	1,273,409		12.4%	22.9%

The World Top 10 (2019)



(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

Countries^(*)
(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Europe	22,296	71,602	154,012	319,000	322,907	384,181	403,208	460,777	14.3%	17.3%
Austria	67	1,331	2,064	4,840	5,235	6,572	6,030	7,421	23.1%	28.1%
Belgium	16	227	1,292	5,574	5,438	6,514	7,465	9,549	27.9%	40.0%
Bulgaria		5	681	1,452	1,425	1,504	1,318	1,317	-0.1%	
Croatia		10	139	796	1,014	1,204	1,335	1,438	7.7%	
Denmark	4,241	6,614	7,809	14,133	12,782	14,780	13,899	16,150	16.2%	7.3%
Finland	78	170	294	2,327	3,068	4,795	5,839	5,985	2.5%	25.7%
France	48	962	9,945	21,421	21,381	24,609	28,599	34,648	21.1%	41.4%
Germany	9,352	27,774	38,547	80,624	79,924	105,693	109,951	125,975	14.6%	14.7%
Greece	451	1,266	2,714	4,621	5,146	5,537	6,300	7,278	15.5%	15.8%
Ireland	244	1,112	2,815	6,573	6,147	7,444	8,640	9,400	8.8%	21.2%
Italy	563	2,344	9,126	14,844	17,689	17,742	17,716	20,245	14.3%	20.7%
Lithuania		2	224	810	1,136	1,364	1,144	1,499	31.1%	
Netherlands	829	2,067	3,993	7,550	8,170	10,569	10,564	11,508	8.9%	14.8%
Norway	31	499	879	2,515	2,116	2,854	3,876	5,536	42.8%	31.4%
Poland	5	135	1,664	10,858	12,588	14,909	12,799	15,040	17.5%	52.4%
Portugal	168	1,773	9,182	11,607	12,474	12,248	12,617	13,738	8.9%	26.1%
Romania			306	7,063	6,590	7,407	6,322	6,773	7.1%	
Spain	4,727	21,176	44,271	49,325	48,905	49,127	50,896	55,591	9.2%	13.9%
Sweden	457	935	3,487	16,322	15,479	17,609	16,623	19,846	19.4%	22.0%
Turkey	33	59	2,916	11,652	15,517	17,904	19,949	21,780	9.2%	40.7%
United Kingdom	947	2,904	10,286	40,275	37,155	49,633	56,904	64,134	12.7%	24.8%
Ukraine	6	38	51	1,084	954	983	1,188	1,462	23.0%	33.5%
Others Europe	33	200	1,327	2,734	2,574	3,181	3,234	4,463	38.0%	29.5%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)	CAGR (2019-2000)
Russia and Central Asia	2	7	12	288	457	592	861	1,057	22.7%	39.1%
Russia	2	7	4	148	148	140	232	315	35.8%	30.5%
Azerbaijan			1	5	23	22	83	105	27.4%	
Kazakhstan				132	275	340	461	549	19.2%	
Others Russia and Central Asia			7	3	11	90	86	88	2.0%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Middle East	40	85	174	360	659	959	1,297		35.2%	21.3%
Iran	37	71	163	221	250	306	368	398	8.0%	13.3%
Israel		11	8	7	7	180	183	302	65.0%	
Jordan	3	3	3	121	391	448	720		60.8%	35.6%
Others Middle East				11	11	25	25		0.0%	

(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

Countries^(*)
(GWh)

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Africa	232	819	2,373	8,555	10,464	11,535	14,170		22.8%	25.7%
Egypt	137	552	1,498	2,058	2,200	2,334	2,360		1.1%	17.1%
Ethiopia				759	782	533	533		-0.1%	
Morocco	64	206	659	2,519	3,000	3,035	3,841	4,699	22.4%	25.4%
South Africa		12	34	2,500	3,700	4,924	6,467	6,624	2.4%	
Tunisia	23	42	139	448	474	449	453	500	10.4%	17.6%
Others Africa	8	7	43	271	308	261	517		98.4%	26.1%

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Asia - Pacific	2,614	11,748	77,063	245,696	312,709	380,455	466,339		22.6%	33.4%
Australia	58	885	5,052	11,467	12,199	12,597	15,164	17,712	16.8%	35.1%
China	615	2,028	44,623	185,767	237,072	295,024	365,801	405,700	10.9%	40.7%
India	1,684	6,211	19,657	35,075	48,281	54,994	64,294	66,008	2.7%	21.3%
Japan	108	1,751	4,016	5,580	6,166	6,490	7,481	7,502	0.3%	25.0%
New Zealand	120	614	1,637	2,364	2,330	2,086	2,068	2,255	9.1%	16.7%
Pakistan				786	1,409	2,101	3,157		50.3%	
Philippines		17	62	748	975	1,094	1,153	1,042	-9.7%	
South Korea	17	130	817	1,342	1,683	2,169	2,465	2,666	8.2%	30.5%
Taiwan	1	91	1,026	1,526	1,457	1,722	1,686	1,871	11.0%	48.7%
Thailand			1	329	345	1,109	1,641	3,655	122.7%	
Others Asia-Pacific	11	20	172	712	792	1,069	1,429		33.6%	

	2000	2005	2010	2015	2016	2017	2018	2019	Δ y/y (2019-2018)**	CAGR (2019-2000)**
Americas	6,164	20,204	108,568	259,834	315,707	355,029	387,534		9.2%	25.9%
Argentina	35	72	25	593	548	612	1,413	4,997	253.6%	29.8%
Brazil	2	93	2,177	21,626	33,488	42,373	48,475	55,986	15.5%	71.4%
Canada	264	1,567	8,724	26,964	30,930	31,511	33,183	34,179	3.0%	29.2%
Chile		7	332	2,115	2,449	3,521	3,588	4,809	34.0%	
Costa Rica	183	204	359	1,080	1,147	1,288	1,799	1,796	-0.1%	12.8%
Mexico	19	19	1,239	8,745	10,378	10,442	12,875	17,601	36.7%	43.3%
Peru	1	1	1	595	1,063	1,073	1,502	1,655	10.2%	47.7%
United States	5,650	17,881	95,148	192,992	229,471	257,249	275,834	303,410	10.0%	23.3%
Uruguay			70	2,065	2,994	3,774	4,732	4,753	0.4%	
Others Americas	10	360	493	3,059	3,239	3,187	4,132		29.7%	39.7%

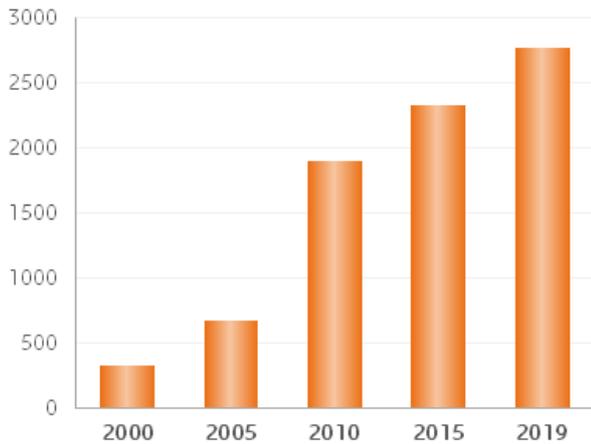
(*) Data source: IEA (2020) *Extended Balances*. All rights reserved.

(**) When 2019 data is missing, the figure refers to the latest available years.

Total Biofuels(*)

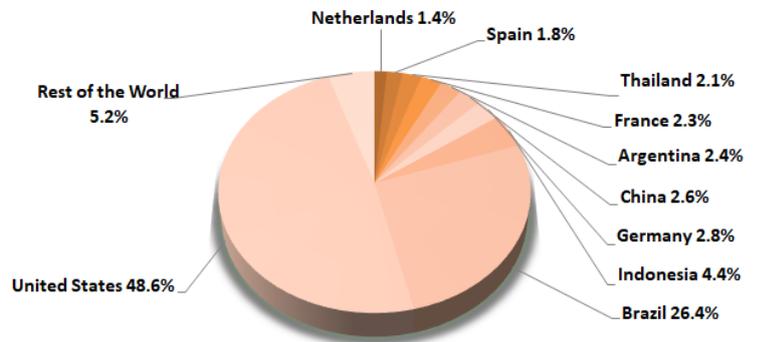
(thousand barrels/day)

World



2019

World: 2,773 thousand barrels/day



Biogasoline(*)

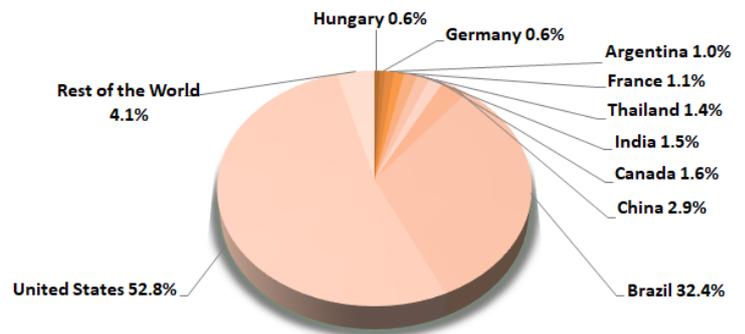
(thousand barrels/day)

World



2019

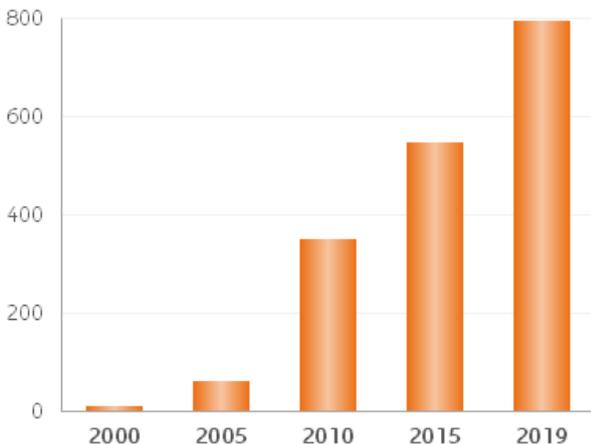
World: 1,948 thousand barrels/day



Biodiesel(*)

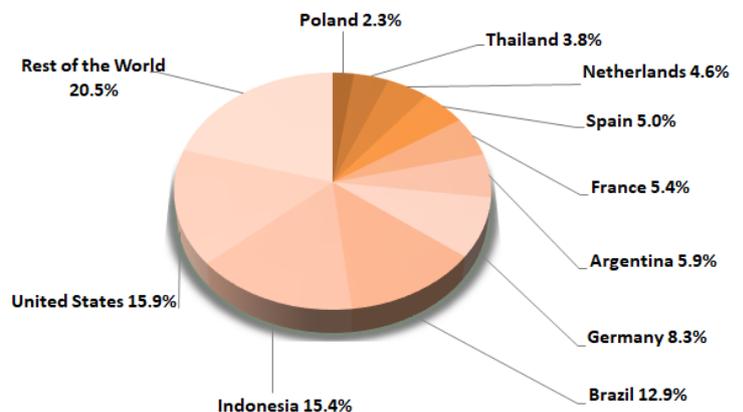
(thousand barrels/day)

World



2019

World: 795 thousand barrels/day



(*) Data source: IEA (2020) *Extended Balances* and EIA DOE. All rights reserved.
Total Biofuels include biogasoline (also ethanol used pure in Brazil "Hydrous"), biodiesel and other liquid biofuels.



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