



Annual Energy-Statistics 2020

Annual / Energy-Statistics 2020

About this statistical data book

This publication has been prepared by the Economic Research Department of Repsol with the aim to provide a tool that will aid objective analysis, discussion and debate on energy markets. In this regard, the Energy Statistical Yearbook is available for access, both in Spanish and English, on the official Repsol website ([repsol.com](https://www.repsol.com)), and where it can also be downloaded in PDF and Excel formats. Further, this space provides interactive charts that may be viewed using Power BI.

The Energy Statistical Yearbook is an energy database with special emphasis on both the oil and natural gas sectors, as well as on electricity generation and sustainability indicators. It contains historical data relating to 50 countries and 10 geographical regions between 2005¹ and 2019 (the latest estimations). It represents the situation of the world energy sector covering more than 90% of global energy consumption.

With regard to the content and structure of the publication, the first section contains a brief analysis of the most important factors in the recent evolution of the international oil and gas sectors, the energy sector in Spain and CO₂ emissions on a global and regional scale.

The second section presents a statistical annex with detailed information on the following areas:

- Oil: proven reserves, production, consumption and prices.
- Natural Gas: proven reserves, production, consumption and prices.
- Electricity: gross generation and renewables share.
- CO₂ Emissions: emissions from fossil fuel combustion, intensity to GDP and emissions per capita.
- Primary Energy Intensity to GDP.

Finally, the Yearbook contains a dashboard for each region and country within the main magnitudes. Here you can find data on primary and final energy demand by both sources and sectors; total power generation and breakdown of sources; hydrocarbon consumption and foreign trade; and sustainability indicators.

In terms of methodology, estimations have been carried out using the most recent available data from various official sources (e.g. governmental, energy reference agencies, JODI and Bloomberg among others) following the same methodology as used by the International Energy Agency (IEA).

Data compilation, aggregation and validation has been made in collaboration with the consultancy firm ENERDATA (www.enerdata.net).

¹ For visualization purposes, this document only represents the years from 2010 onwards. You can find the whole period in the downloadable Excel file (<https://www.repsol.com/en/energy-and-innovation/energy-yearbook/index.cshtml>).

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Recent developments in the oil sector

Brent Crude oil averaged US\$ 64/bl in 2019, a 10% reduction compared to 2018, following three differentiated dynamics.

The first dynamic, describing an upward trend, started in January with prices hovering around US\$ 53/bl and kept increasing to US\$ 75/bl by mid-May. One of the key drivers that supported this rally was the decision from the OPEC+ in December 2018 to extend for six more months the supply cut agreement of 1.2 mb/d, in place since January 2017. Additionally, geopolitical situation in Venezuela and Iran got worse adding stress to global markets. From the demand side, consumption growth remained healthy during the first six months of the year.

The second dynamic saw oil prices falling more than 25% from US\$ 75/bl by mid-May to US\$ 55/bl by early August. The China-US trade disputes and the expectations of a global economic slowdown weighed on oil prices, even with the OPEC+ agreeing in July 2019 an extension of production cuts until March 2020.

The third dynamic reversed the previous one and took Brent prices from US\$ 55/bl to US\$ 68/bl by year-end. Three events outstood over others: 1) the upsurge of China-US tensions; 2) the attacks on September 14th on two Saudi Aramco facilities, taking almost 6 mb/d out of the market; and 3) the US Federal Reserve (FED) cutting interest rates for the first time in a decade, favoring the appreciation of emerging economies currencies against the US dollar.

In 2019, crude oil price registered a spread of US\$ 25 between minimum and maximum. In 2020 this spread reached US\$ 49. Last year, maximum price was registered on January 6th when Brent closed at US\$ 69/bl. Thereafter, prices were closely linked to the development of the COVID-19 that came into scene in December 2019 in Wuhan, China's Hubei province. The impact on oil market had historic proportions with oil prices describing ups and downs typical of a roller coaster. Two periods can be identified.

The first ran from the beginning of the year until the end of April, with prices going from US\$ 68/bl at the beginning of January to US\$ 19/bl on April 21st. On the demand side, mobility restrictions and confinements adopted to fight the pandemic caused the largest drop in oil demand since reliable records are available. Jet kerosene was the petroleum product most severely impacted by the pandemic, followed by gasoline and diesel.

On the supply side, on March 8th, Saudi Arabia started a war price in response to Russia's refusal to reduce its production to support prices. The next day, Brent and WTI prices plummeted 24% and 25%, respectively.

Because of the previous two, an unprecedented event occurred on April 20th when WTI price closed below US\$ -37/bbl. The collapse of the demand for crude oil and the excess supply, together with the particularities of the WTI futures contract and other financial factors, pushed the storage capacity at the physical delivery point to the limit, having to pay to get rid of a barrel of crude oil.

The second period, from the end of April to the end of the year, reversed the downward trend and registered a gradual recovery in crude prices, albeit with ups and downs. At the end of April, the OPEC+ agreed to a historic cut of 9.7 mb/d that began in May. This upward trend came to a halt in summer due to the increase in COVID-19 cases and, consequently, to the mobility restriction measures implemented, stabilizing prices between US\$ 40 and US\$ 45/bl from July to November.

In mid-November, the results of the efficacy of the COVID-19 vaccine from Pfizer and BioNTech helped Brent's barrel to exceed the US\$ 45/bl range, reaching US\$ 52/bl on December 18th. All this, despite the increase in infections, especially in Europe and the US.

Brent crude oil average price in 2020 was US\$ 43.2/bl, a 33% drop compared to 2019.

Recent developments in the natural gas sector

In 2019, natural gas market registered a slowdown in demand growth after two years of very positive dynamic. By sector, the main contributor to consumption was the power sector, thanks to the switch coal-to-gas.

On the supply side, production growth was robust exceeding demand rates, driven by supply from the U.S. This supply-demand unbalance led to very high inventory levels, not only in the U.S. but also in Europe, which became the main recipient of liquefied natural gas (LNG) given the weakness in Asia demand.

Natural gas market was also affected by the U.S.-China trade war, through tariffs affecting exports. However, the expansion of global gas markets continued thanks to global LNG, which grew by 12% in 2019, record year for investment in export projects with 95 bcm/y of new capacity signed.

In this scenario of oversupply, global gas prices fell significantly during 2019, but in relative terms, gas indexed to oil prices performed better thanks to long-term contracts. However, in Europe, prices plummeted at lows not seen since 2004.

The unbalance got even worse with the irruption of COVID-19 in China at the end of 2019 and its global expansion in 2020. The measures taken to constrain the virus and the collapse in crude oil prices in April 2020, put extra pressure on gas prices taking them to historic record lows in May.

By region, Asian demand was relatively stable but European consumption was most affected due to the oversupply inherited from 2019. Despite this, gas demand found support in two facts that prevented a major contraction. On one hand, the power sector consumption remained stable in almost all regions. On the other hand, global LNG imports kept growing but at a slower rate than in 2019. Asian LNG demand grew by 4% compared to 2019, driven by Chinese demand. Other Asian countries with high sensitivity to gas prices also increased their imports, taking advantage of low spot prices. Liquefaction capacity grew by 5% in 2020 as new plants became online, mainly in the US.

In terms of supply, global natural gas production declined in response to low prices, particularly in North America, where production fell around -50 Bcm from levels of 1,161 Bcm averaged in 2019.

A global price recovery started last October, hand in hand with the significant increase in seasonal Asian demand and influenced by supply interruptions suffered in key regions such as Australia. Prices rose significantly with Asian and European prices reaching record highs, not seen since 2018 when another cold wave hit the Asian continent. Regarding to Henry Hub, the increase was only moderate.

On average, major gas price indicators fell more than 20% below 2019 prices in 2020.

Currently, the COVID-19 remains active, creating high uncertainty in market and accelerating the energy transition in key countries for natural gas demand. The speed and effectiveness of vaccination process will mark the short-term future of the global gas market.

Recent developments in the Spanish energy sector

During 2019, there was a spectacular increase in the demand for natural gas, with most of this growth oriented to electricity generation. In 2020, higher prices and lower industrial consumption led to a contraction in gas demand, in the absence of definitive data, of more than 10%.

In the case of petroleum products, during 2019 the growth of automotive gasoline sales continued (almost 6%) to the detriment of diesel, which showed a subtle contraction, in line with the higher sales of gasoline-powered cars. Aviation kerosene also showed robust growth, although less than in previous years. In 2020 the picture completely changed, and mobility fuels were strongly affected by traffic restrictions. Among them the most affected were kerosene, given the drastic reduction in the airline sector, whose demand contracted, in the absence of definitive data, by more than 60% compared to the previous year. Gasolines also suffered a more than 20% contraction in consumption, while diesel fell, although at a slightly slower rate (around 15%).

Focus attention on power market in Spain, the year 2019 was characterized by the sharp drop in prices and the entry of new renewable generation capacity.

Related to the wholesale market prices, these continue to be defined by gas prices, which is why they fell sharply in the second half of the year to record the lowest prices in a second half since 2009.

The reduction of the price of gas as a raw material also led to a much higher use of combined cycle plants, which almost doubled their weight in the generation structure compared to the previous year. On the contrary, the renewable generation of the mix was reduced by more than two percentage points (to 38.9%) due to a much lower production of the hydroelectric plants compared to 2018 (consequence of a year with lower rainfall).

Regarding the generation capacity, the closure of non-renewable capacity was more than offset by the entry of renewables (more than 15 times the closed capacity). This massive entry of capacity was a consequence not only of the reduction in the costs of these new technologies, but also of the contractual obligation to enter into operation before the end of the year those that were auctioned in 2017, under penalty of losing the guarantees that had been deposited. Hence, photovoltaic solar practically doubled the capacity it had in the previous year, and wind power increased almost 10%.

With this new capacity, the renewable generation park exceeded non-renewable capacity for the first time.

On the demand side, it contracted by 1.6% during 2019, which represents the first contraction in demand in the last five years. This decrease was mainly due to lower industrial consumption.

Comparing to the rest of the European markets, despite the fact that the price reduction in the Iberian market was one of the largest in the entire continent, prices in the continent's reference markets were much lower than in Spain, and while in France or Germany averaged € 39.4 and € 37.7 / MWh respectively, in Spain the average was € 47.7 / MWh, although this figure was below the British and Italian markets.

During 2020, the market experienced a drastic change with the arrival of COVID-19. The confinements affected reducing demand and consequently prices, especially with a very depressed gas market for the same reasons. But both the consumers sectors and profile of demand changed: while residential contracts increased their demand for landfills, commercial customers plummeted. This effect was much higher in Spain and Europe as a whole because their economies are more oriented to the service sector, while other economies more oriented to industrial production registered a much lower fall in electricity demand.

As a result of all this, the average price of electricity in Spain in 2020 was the lowest in the last 15 years, and it was also possible to cover more than 45% of the demand with renewable sources, almost 7 percentage points more than in 2019.

Recent developments in CO₂ emissions

CO₂ emissions in 2019 fell very slightly compared to the previous year (just 0.2%). China continues to be the largest carbon emitter, followed far behind by the United States and the European Union.

Of the large emitters, the most developed countries managed to reduce their emissions in 2019, starting with the EU [-4%], Japan [-3.4%] and the US [-2.4%], while the developing most emitters increased those emissions (China +2.8%, Russia +1.7%) with the exception of India, where they fell just over 1%.

The picture is very different if emissions are analyzed over GDP, that is, the emissions intensity. In this way, it is observed that the EU is the most efficient with its emissions, well below others large emitters. Within the EU, Spain is almost 10% below the average emissions per dollar of GDP. It should be noted that in practically all the countries this indicator has improved in recent years, indicating that emission reduction measures are not negatively affecting the world economy growth.

Although there are still no reliable data on emissions in 2020, the first indicators seem to show a reduction in emissions due to the economic impact of the COVID pandemic and the different confinements and mobility restrictions in most countries. These provisional data indicate a 5% drop in emissions, with all the main emitters reducing their emissions, and with China as the country with the smallest reduction [-0.5%] due to the fact that its industrial emissions have increased around the 2%.

In the case of Spain, preliminary data indicate that it would be the country with the greatest reduction in emissions, reducing by more than 14%. It should be noted that in the Spanish case a very significant part of the reduction in emissions has come from the hand of the electricity sector, and it has not only been due to the contraction of electricity demand, but also due to the closure of most of the generation capacity with coal.

Statistical annex



Oil

Oil Proved Reserves (Thousand million barrels)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	221.5	225.3	229.3	232.6	237.9	227.5	227.7	229.0	245.5	244.4
Canada	174.8	174.2	173.7	173.0	172.2	171.5	170.5	172.6	170.8	169.7
Mexico	11.7	11.4	11.4	11.1	10.8	8.0	7.2	6.4	5.8	5.8
United States	35.0	39.8	44.2	48.5	55.0	48.0	50.0	49.9	68.9	68.9
South and Central America	320.1	321.7	322.3	323.7	325.5	322.8	322.7	329.1	324.7	324.1
Argentina	2.5	2.5	2.4	2.3	2.4	2.4	2.2	2.0	2.4	2.4
Brazil	14.2	15.0	15.3	15.6	16.2	13.0	12.6	12.8	13.4	12.7
Chile	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Colombia	1.9	2.0	2.2	2.4	2.4	2.3	2.0	1.7	1.8	2.0
Peru	1.2	1.2	1.4	1.6	1.4	1.2	1.2	1.0	0.9	0.9
Trinidad & Tobago	0.7	0.7	0.7	0.7	0.7	0.7	0.2	0.2	0.2	0.2
Venezuela	296.5	297.6	297.7	298.4	300.0	300.9	302.3	302.8	303.8	303.8
Other	2.8	2.5	2.4	2.5	2.3	2.2	2.1	8.5	2.0	2.0
Europe	13.6	13.9	14.2	13.7	12.9	13.9	13.2	13.7	14.6	14.4
France	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Germany	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Italy	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5
Netherlands	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1
Norway	6.8	6.9	7.5	7.0	6.5	8.0	7.6	7.9	8.6	8.5
Poland	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Romania	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Spain	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Turkey	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
United Kingdom	2.8	3.1	3.0	3.0	3.0	2.8	2.6	2.5	2.5	2.7
EU	6.0	6.2	6.0	5.8	5.6	5.1	4.7	4.9	5.1	5.0
Other	1.7	1.5	1.4	1.3	1.1	0.9	0.8	1.3	1.4	1.2
Former Soviet Union	144.2	144.2	143.9	143.5	141.6	140.8	144.6	144.7	145.7	145.7
Azerbaijan	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Kazakhstan	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Russia	105.8	105.7	105.5	105.0	103.2	102.4	106.2	106.3	107.2	107.2
Ukraine	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Uzbekistan	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Other	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Middle East	765.9	797.9	799.3	802.9	803.1	802.9	807.7	807.7	833.9	833.8
Iran	151.2	154.6	157.3	157.8	157.5	158.4	157.2	155.6	155.6	155.6
Iraq	115.0	143.1	141.4	140.3	144.2	143.1	142.5	148.8	147.2	145.0
Kuwait	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
Qatar	24.7	23.9	25.2	25.1	25.7	25.2	25.2	25.2	25.2	25.2
Saudi Arabia	264.5	265.4	265.9	265.8	266.6	266.5	266.2	266.2	297.7	297.6
United Arab Emirates	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
Other	11.3	11.7	10.2	14.6	9.7	10.5	17.3	12.6	8.8	11.1
Africa	124.9	124.6	127.4	127.5	126.8	127.6	127.9	126.6	125.7	125.7
Algeria	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
Angola	9.1	9.1	9.1	9.0	8.4	9.5	9.5	9.5	8.2	8.2
Egypt	4.5	4.3	4.2	3.9	3.7	3.5	3.4	3.6	3.1	3.1
Libya	47.1	48.0	48.5	48.4	48.4	48.4	48.4	48.4	48.4	48.4
Nigeria	37.2	36.2	37.1	37.1	37.4	37.1	37.5	37.5	37.0	37.0
Other	14.9	14.8	16.3	17.0	16.6	17.0	17.0	15.4	16.9	16.9
Asia-Pacific	47.8	47.9	48.5	49.1	47.7	46.6	45.9	45.9	46.0	45.7
Australia	3.8	3.9	3.9	4.0	2.4	2.4	2.4	2.4	2.4	2.4
China	20.4	20.4	23.7	24.4	24.6	25.1	25.6	25.6	25.9	26.2
India	5.8	5.7	5.7	5.7	5.7	4.8	4.7	4.5	4.5	4.7
Indonesia	4.2	3.7	3.7	3.7	3.6	3.6	3.3	3.2	3.2	2.5
Malaysia	3.6	3.7	3.7	3.8	3.6	3.0	2.8	2.8	2.8	2.8
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Thailand	0.4	0.5	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3
Vietnam	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Other	5.0	5.5	2.8	2.6	2.8	2.8	2.3	2.5	2.5	2.5
OECD	237.9	242.0	246.4	249.2	252.2	242.7	242.2	255.3	261.3	260.1
Non-OECD	1,400.2	1,433.5	1,438.5	1,443.8	1,443.3	1,439.5	1,447.6	1,441.4	1,474.6	1,473.7
OPEC	1,139.8	1,173.2	1,175.0	1,180.5	1,180.6	1,182.6	1,189.0	1,215.0	1,214.8	1,214.7
Non-OPEC	498.3	502.3	510.0	512.4	514.9	499.6	500.7	481.7	521.1	519.2
World	1,638.2	1,675.5	1,685.0	1,693.0	1,695.5	1,682.2	1,689.8	1,696.7	1,735.9	1,733.9

Note: Proved reserves of crude and liquids on 31/12. Canadian reserves include oil sands while Venezuelan reserves include extra-heavy oil.

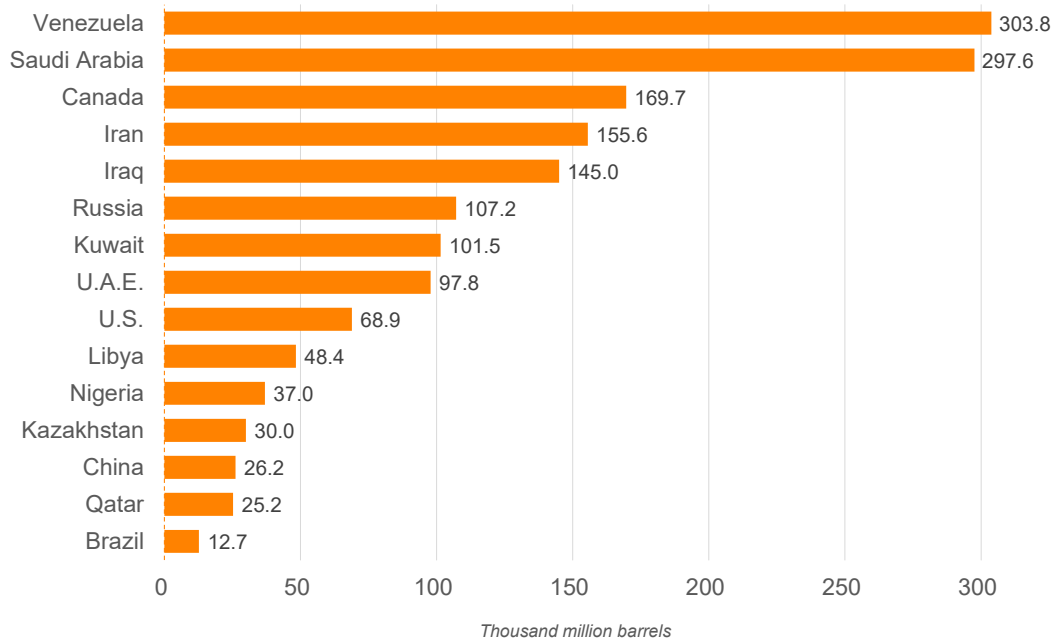
Oil Production (Thousand barrels per day)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	14,175	14,672	15,955	17,352	19,250	20,157	19,602	20,535	23,003	24,718
Canada	3,458	3,649	3,891	4,145	4,425	4,536	4,615	4,990	5,408	5,544
Mexico	2,959	2,943	2,920	2,890	2,799	2,597	2,474	2,237	2,084	1,932
United States	7,758	8,080	9,144	10,317	12,026	13,024	12,513	13,308	15,511	17,242
South and Central America	7,374	7,502	7,466	7,489	7,710	7,845	7,529	7,269	6,641	6,322
Argentina	734	674	674	649	659	650	625	595	621	639
Brazil	2,152	2,211	2,167	2,133	2,367	2,547	2,628	2,755	2,713	2,897
Chile	13	13	11	11	9	6	5	6	9	12
Colombia	788	918	953	1,016	997	1,014	906	862	873	893
Peru	0	0	0	0	0	0	0	0	0	1
Trinidad & Tobago	15	16	16	16	16	16	16	16	16	16
Venezuela	2,775	2,751	2,733	2,722	2,672	2,665	2,429	2,133	1,534	982
Other	897	919	912	942	990	947	920	902	875	882
Europe	4,297	3,978	3,673	3,467	3,475	3,632	3,662	3,616	3,596	3,456
Czech Republic	5	8	8	5	7	7	5	7	6	6
France	42	49	37	31	28	31	39	36	32	30
Germany	76	84	84	76	62	67	68	67	70	62
Italy	97	127	138	134	128	131	96	97	110	89
Netherlands	33	32	30	31	38	36	24	24	23	18
Norway	2,138	2,040	1,917	1,838	1,889	1,948	1,995	1,969	1,850	1,737
Poland	24	25	23	30	29	28	22	24	32	32
Portugal	1	1	0	1	1	0	1	1	1	2
Romania	89	88	85	85	83	82	78	75	74	72
Spain	12	20	32	10	6	5	3	2	2	1
Turkey	48	46	45	47	48	48	49	49	55	58
United Kingdom	1,365	1,123	955	887	873	972	1,026	1,009	1,108	1,134
EU	4,219	3,895	3,585	3,374	3,379	3,538	3,573	3,530	3,507	3,366
Other	367	335	319	292	283	277	256	256	233	215
Former Soviet Union	13,527	13,573	13,599	13,833	13,896	14,036	14,205	14,314	14,573	14,643
Azerbaijan	1,042	924	879	885	862	849	829	784	793	765
Kazakhstan	1,694	1,703	1,683	1,733	1,728	1,694	1,669	1,848	1,937	1,942
Russia	10,390	10,539	10,623	10,793	10,892	11,084	11,328	11,321	11,494	11,582
Ukraine	79	69	76	69	61	54	50	49	51	55
Uzbekistan	75	71	63	60	56	52	48	46	43	40
Other	247	267	275	293	297	303	281	266	255	259
Middle East	25,366	27,578	28,120	27,988	28,451	29,801	31,546	31,103	31,694	30,180
Iran	4,215	4,164	3,551	3,289	3,429	3,593	4,422	4,762	4,632	3,397
Iraq	2,430	2,741	3,021	3,146	3,415	4,078	4,503	4,563	4,663	4,812
Kuwait	2,498	2,771	2,985	3,109	3,090	3,097	3,194	3,014	3,050	2,987
Qatar	871	895	925	955	950	988	1,012	978	986	979
Saudi Arabia	9,971	11,217	11,742	11,513	11,605	12,045	12,344	11,876	12,345	11,782
United Arab Emirates	2,831	3,204	3,355	3,478	3,552	3,762	3,848	3,740	3,801	4,009
Other	2,550	2,586	2,541	2,498	2,410	2,238	2,223	2,170	2,217	2,214
Africa	10,240	8,823	9,660	8,820	8,390	8,323	7,778	8,175	8,281	8,419
Algeria	1,720	1,672	1,619	1,573	1,585	1,590	1,604	1,530	1,512	1,490
Angola	1,800	1,712	1,834	1,772	1,696	1,796	1,743	1,701	1,543	1,449
Egypt	700	689	694	696	709	696	664	639	649	633
Libya	1,661	485	1,476	953	497	437	426	877	1,029	1,159
Nigeria	2,535	2,490	2,482	2,293	2,330	2,246	1,928	1,986	2,030	2,123
South Africa	141	120	131	120	103	106	103	101	93	98
Other	1,683	1,655	1,424	1,413	1,470	1,452	1,310	1,341	1,425	1,467
Asia-Pacific	8,382	8,245	8,317	8,165	8,206	8,340	8,022	7,794	7,665	7,713
Australia	549	473	465	393	412	371	345	315	345	460
China	4,031	4,040	4,114	4,149	4,174	4,271	3,955	3,860	3,811	3,881
India	880	915	904	883	881	872	852	861	845	803
Indonesia	991	942	902	861	835	817	866	824	798	771
Japan	18	17	16	14	13	12	11	12	10	11
Malaysia	717	652	657	624	653	701	737	729	723	670
New Zealand	60	52	47	41	46	48	41	37	30	30
South Korea	21	20	21	19	20	22	24	25	29	28
Thailand	382	407	443	438	436	451	462	455	445	442
Other	733	727	748	743	736	775	729	676	629	617
OPEC	33,309	34,056	35,664	34,628	34,659	36,050	37,117	36,861	36,868	34,936
Non-OPEC	53,969	54,292	55,185	56,758	59,204	60,610	59,878	60,700	63,527	65,658
Global biofuels	1,834	1,871	1,924	2,092	2,270	2,285	2,383	2,460	2,620	2,796
Processing gains	2,081	2,108	2,135	2,178	2,214	2,240	2,267	2,294	2,322	2,349
World	87,278	88,348	90,849	91,386	93,863	96,660	96,995	97,561	100,395	100,594

Note: Oil production includes production of crude, condensates and natural gas liquids (NGLs).

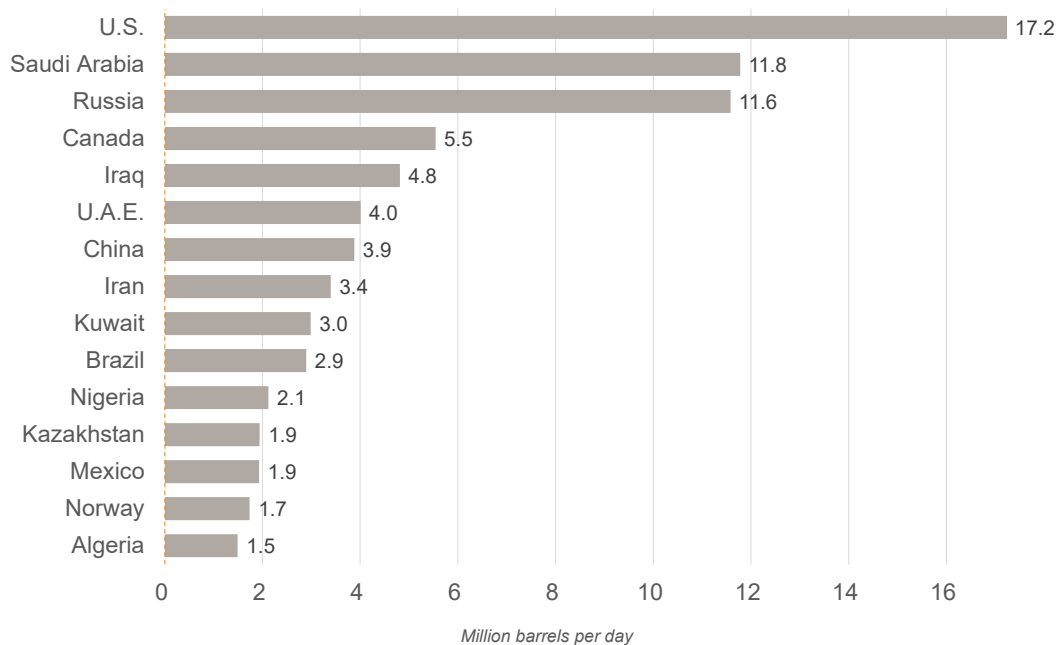
Oil Final Consumption (Thousand barrels/day)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	23,934	23,760	23,331	23,773	23,841	24,286	24,518	24,756	25,361	25,333
Canada	2,364	2,392	2,438	2,418	2,389	2,440	2,466	2,464	2,525	2,421
Mexico	2,094	2,120	2,102	2,090	2,040	2,006	2,053	2,019	2,019	2,049
United States	19,476	19,248	18,791	19,265	19,412	19,840	19,999	20,273	20,822	20,863
South and Central America	6,379	6,528	6,745	6,937	7,068	6,972	6,781	6,724	6,602	6,577
Argentina	656	663	679	693	688	682	677	666	648	632
Brazil	2,774	2,869	2,975	3,125	3,257	3,191	3,004	3,043	2,976	3,045
Chile	322	332	332	340	336	331	352	357	363	369
Colombia	271	307	326	324	330	341	375	349	352	360
Peru	200	212	219	225	223	235	246	260	265	269
Trinidad & Tobago	43	43	40	44	44	46	47	44	37	37
Venezuela	788	772	830	828	809	710	629	574	484	359
Other	1,325	1,330	1,344	1,358	1,381	1,436	1,451	1,431	1,477	1,506
Europe	15,463	15,037	14,557	14,349	14,253	14,569	14,777	15,175	15,075	15,025
Belgium	653	611	596	615	607	623	632	637	683	665
Czech Republic	202	198	195	188	202	196	180	214	217	219
Finland	214	208	200	211	207	207	210	208	211	204
France	1,817	1,824	1,789	1,764	1,745	1,746	1,707	1,736	1,688	1,690
Germany	2,467	2,392	2,389	2,435	2,374	2,368	2,383	2,450	2,333	2,362
Italy	1,544	1,494	1,370	1,260	1,266	1,274	1,237	1,244	1,272	1,205
Netherlands	985	991	963	940	932	921	937	946	931	899
Norway	229	220	215	218	211	215	212	215	222	207
Poland	568	558	533	505	504	541	584	658	680	694
Portugal	274	256	230	234	233	237	237	242	232	250
Romania	176	184	192	187	190	194	204	217	214	228
Spain	1,441	1,385	1,301	1,208	1,200	1,247	1,290	1,297	1,332	1,328
Sweden	343	322	309	307	305	302	317	322	292	296
Turkey	675	655	689	747	763	881	942	991	958	991
United Kingdom	1,624	1,582	1,534	1,512	1,518	1,560	1,596	1,625	1,608	1,568
EU	14,025	13,642	13,151	12,877	12,799	12,986	13,118	13,451	13,382	13,318
Other	2,251	2,157	2,052	2,018	1,996	2,057	2,109	2,173	2,202	2,219
Former Soviet Union	3,882	4,216	4,237	4,351	4,621	4,601	4,493	4,658	4,684	4,777
Azerbaijan	74	86	90	97	96	96	96	101	99	100
Kazakhstan	233	272	257	348	258	322	349	336	326	332
Russia	2,828	3,094	3,082	3,151	3,529	3,480	3,313	3,499	3,498	3,578
Ukraine	293	290	286	274	238	220	244	236	243	246
Uzbekistan	92	83	79	93	85	84	87	88	93	95
Other	362	391	443	388	415	399	404	398	425	426
Middle East	7,303	7,433	7,852	8,085	8,375	8,476	8,273	8,295	8,288	8,332
Iran	1,848	1,786	1,856	2,046	2,027	2,002	1,845	1,895	1,984	1,985
Iraq	658	690	785	861	879	802	845	826	878	864
Kuwait	450	449	461	446	449	445	437	435	434	444
Qatar	172	173	205	204	230	227	222	248	267	271
Saudi Arabia	2,674	2,785	2,979	2,964	3,196	3,415	3,301	3,205	3,065	3,084
United Arab Emirates	637	674	713	762	770	838	895	923	880	911
Other	864	876	853	802	824	747	728	763	780	773
Africa	3,592	3,574	3,805	4,009	4,152	4,187	4,142	4,156	4,251	4,276
Algeria	351	365	395	417	435	447	430	425	437	444
Angola	106	111	120	142	156	154	148	133	132	131
Egypt	763	757	802	788	840	858	829	773	760	725
Libya	304	187	262	280	270	228	208	217	227	235
Nigeria	293	310	337	414	454	415	427	431	457	504
South Africa	587	626	604	630	620	640	607	642	656	668
Other	1,188	1,218	1,285	1,338	1,377	1,445	1,493	1,535	1,582	1,569
Asia-Pacific	27,783	28,579	29,750	30,453	30,986	32,317	33,165	34,327	34,981	35,812
Australia	1,045	1,098	1,127	1,139	1,128	1,123	1,117	1,170	1,186	1,175
China	9,031	9,408	9,803	10,373	10,785	11,566	11,953	12,485	12,997	13,703
India	3,361	3,475	3,660	3,725	3,898	4,279	4,510	4,753	4,964	5,114
Indonesia	1,407	1,594	1,748	1,736	1,763	1,657	1,640	1,701	1,824	1,965
Japan	4,402	4,413	4,675	4,517	4,282	4,163	4,030	3,932	3,786	3,652
Malaysia	586	636	613	714	732	688	708	731	713	754
New Zealand	153	153	152	155	157	161	168	177	180	181
South Korea	2,269	2,259	2,322	2,328	2,348	2,473	2,605	2,630	2,567	2,546
Taiwan	1,034	955	946	979	1,019	1,043	1,048	1,035	1,038	987
Thailand	1,128	1,180	1,248	1,336	1,349	1,362	1,392	1,417	1,456	1,483
Other	3,367	3,408	3,456	3,451	3,525	3,802	3,994	4,296	4,270	4,252
OECD	47,139	46,600	46,107	46,162	45,886	46,633	47,065	47,675	47,994	47,746
Non-OECD	41,197	42,529	44,170	45,795	47,410	48,776	49,085	50,418	51,248	52,386
World	88,336	89,129	90,277	91,957	93,296	95,409	96,150	98,093	99,242	100,132

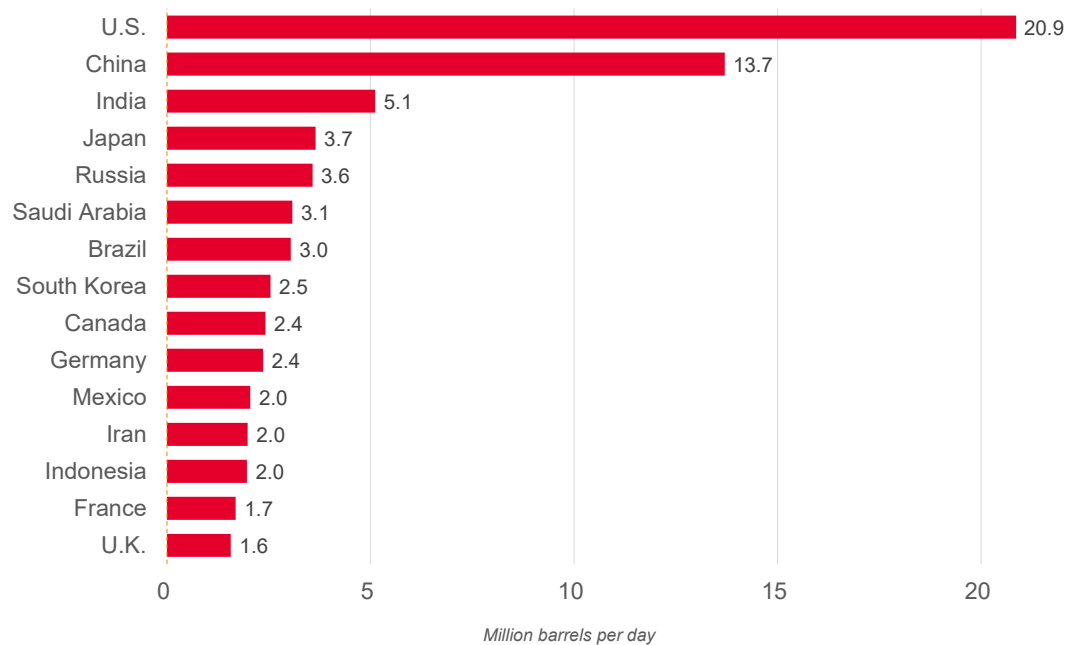
Note: Liquids final consumption including bunker fuel.

Top 15 Countries - Oil Proved Reserves, 2019



Top 15 Countries - Oil Production, 2019



Top 15 Countries - Oil Final Consumption, 2019



Natural Gas

Natural Gas Proved Reserves (Tcm)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	10.5	11.2	10.6	11.4	12.2	10.7	10.9	14.1	15.0	15.0
Canada	1.9	1.8	1.9	1.9	1.9	2.1	2.0	2.0	1.9	2.0
Mexico	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2
United States	8.3	9.1	8.4	9.2	10.0	8.3	8.7	11.9	12.9	12.9
South and Central America	8.1	8.1	8.3	8.2	8.2	8.3	8.3	8.1	8.0	8.0
Argentina	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Brazil	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
Chile	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Colombia	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Peru	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
Trinidad & Tobago	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Venezuela	6.1	6.1	6.2	6.2	6.2	6.3	6.4	6.3	6.3	6.3
Other	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Europa	4.4	3.9	3.6	3.5	3.3	3.2	3.0	2.9	2.4	2.3
France	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Germany	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Italy	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Netherlands	1.2	1.1	0.8	0.8	0.7	0.7	0.7	0.6	0.2	0.2
Norway	2.0	2.1	2.1	2.0	1.9	1.8	1.8	1.7	1.6	1.5
Poland	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Romania	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Turkey	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
EU	2.3	1.8	1.5	1.4	1.3	1.3	1.2	1.2	0.7	0.7
Other	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Former Soviet Union	50.5	59.0	59.6	59.8	60.3	60.1	60.6	64.0	64.6	65.3
Azerbaijan	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	2.1	2.8
Kazakhstan	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7
Russia	34.1	34.5	34.6	34.9	35.0	35.0	34.8	38.3	38.0	38.0
Turkmenistan	11.3	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
Ukraine	0.7	0.7	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1
Uzbekistan	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle East	76.8	77.8	77.4	77.7	77.6	77.0	77.6	75.3	75.6	75.6
Iran	31.3	31.8	31.9	32.1	32.1	31.6	31.8	31.9	32.0	32.0
Iraq	3.0	3.4	3.0	3.0	3.0	3.0	3.6	3.6	3.5	3.5
Kuwait	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Qatar	25.9	25.9	25.8	25.5	25.4	25.1	24.9	24.7	24.7	24.7
Saudi Arabia	7.5	7.6	7.7	7.8	7.9	8.0	8.0	5.7	5.9	6.0
United Arab Emirates	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Other	1.5	1.5	1.4	1.6	1.5	1.5	1.5	1.8	1.8	1.7
Africa	14.4	14.5	14.2	13.9	14.5	14.3	14.9	15.0	15.1	15.3
Algeria	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Angola	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Egypt	2.1	2.1	2.0	1.8	2.1	2.0	2.1	2.1	2.1	2.1
Libya	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Nigeria	4.9	4.9	4.9	4.9	5.1	5.0	5.2	5.3	5.4	5.4
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	1.2	1.3	1.3	1.3	1.3	1.2	1.4	1.3	1.4	1.6
Asia-Pacific	13.5	13.8	13.9	14.3	14.1	14.7	16.2	16.7	16.9	17.7
Australia	2.9	2.8	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.4
China	2.7	2.9	3.1	3.4	3.6	4.7	5.5	6.1	6.4	8.4
India	1.1	1.2	1.3	1.3	1.4	1.2	1.2	1.2	1.3	1.3
Indonesia	3.0	3.0	3.0	2.9	2.9	2.8	2.9	2.9	2.8	1.4
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaysia	1.0	1.1	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.9
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Thailand	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Other	2.4	2.4	2.3	2.5	2.4	2.3	3.0	2.9	2.9	2.9
OECD	17.7	18.4	17.5	18.2	18.3	16.7	16.8	20.2	20.5	20.5
Non-OECD	160.5	169.9	170.1	170.7	171.9	171.6	174.6	176.0	177.0	178.7
World	178.2	188.3	187.6	188.9	190.2	188.2	191.5	196.2	197.5	199.2

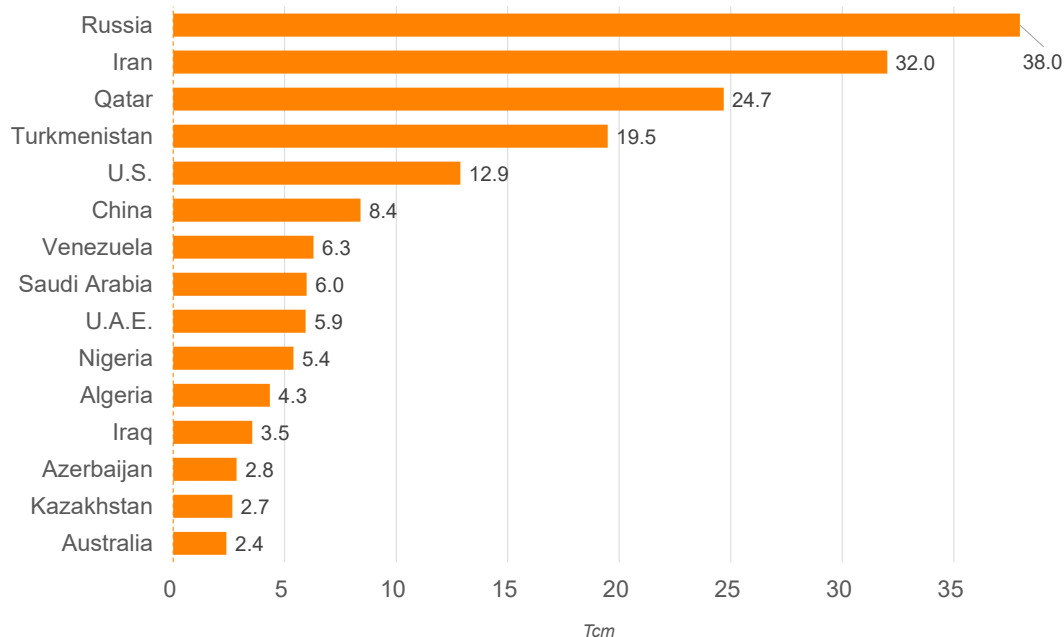
Note: Proved reserves of natural gas on 31/12.

Natural Gas Production (Bcm)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	811.1	855.5	884.1	888.9	942.3	973.1	968.9	988.6	1,079.8	1,160.6
Canada	156.3	157.7	156.3	157.5	164.1	165.0	177.0	182.9	190.0	183.2
Mexico	51.0	49.0	47.0	45.8	44.8	41.6	36.7	32.4	27.3	26.0
United States	603.9	648.8	680.8	685.7	733.4	766.5	755.3	773.3	862.5	951.4
South and Central America	211.8	214.1	218.2	221.8	223.7	218.8	213.3	209.2	202.5	202.1
Argentina	42.3	41.7	40.8	38.7	38.9	40.1	43.0	42.8	45.2	47.4
Brazil	15.1	17.2	19.7	21.8	23.4	24.1	24.4	27.5	25.6	26.3
Chile	1.8	1.5	1.2	1.0	0.8	1.0	1.2	1.2	1.5	1.7
Colombia	12.7	12.3	12.6	15.3	14.8	14.0	12.9	13.2	13.4	14.0
Peru	7.3	11.5	12.0	12.4	13.1	12.7	14.0	13.0	12.8	13.5
Trinidad & Tobago	40.3	38.7	38.5	38.7	38.1	36.0	31.3	31.9	34.0	34.6
Venezuela	22.0	22.2	23.3	22.5	22.6	23.0	24.5	24.0	20.7	17.1
Other	70.2	69.2	70.0	71.4	72.1	68.0	62.2	55.5	49.4	47.5
Europa	317.2	292.4	294.4	286.9	269.2	260.6	259.5	261.1	246.2	232.2
Czech Republic	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
France	0.8	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Germany	15.1	14.8	13.1	12.2	9.5	8.7	9.0	8.2	6.7	6.5
Italy	8.4	8.4	8.6	7.7	7.1	6.8	5.8	5.5	5.4	4.9
Netherlands	90.3	83.4	82.1	86.9	72.5	55.0	53.1	46.3	38.7	33.7
Norway	110.4	105.8	119.2	113.2	112.9	121.3	120.6	128.2	125.5	118.4
Poland	6.1	6.2	6.3	6.2	6.1	6.1	5.8	5.7	5.7	5.7
Romania	10.9	10.9	10.9	10.9	11.1	11.1	9.8	10.6	10.3	10.9
Spain	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1
Turkey	0.7	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
United Kingdom	57.9	46.4	39.6	37.3	38.8	40.5	41.7	42.1	40.8	39.9
EU	205.8	185.4	174.1	172.6	155.3	138.3	138.0	132.0	119.7	111.3
Other	16.4	14.8	13.1	11.3	10.6	10.4	13.0	13.7	12.3	11.6
Former Soviet Union	828.1	867.4	858.8	885.0	861.2	860.5	856.6	913.4	941.1	973.1
Azerbaijan	16.3	16.0	16.8	17.4	18.4	18.8	18.3	17.8	19.0	24.3
Kazakhstan	28.3	28.5	30.7	33.0	33.6	37.6	37.7	42.7	44.1	44.7
Russia	657.3	672.8	658.1	674.5	646.5	638.0	644.2	695.1	715.2	739.8
Turkmenistan	40.1	56.3	59.0	59.0	63.5	65.9	63.2	58.7	61.5	63.2
Ukraine	20.2	20.3	20.1	21.0	19.7	19.5	19.7	20.2	21.5	21.2
Uzbekistan	60.1	63.0	62.9	59.6	61.7	62.2	56.3	56.6	60.0	59.6
Other	5.8	10.5	11.2	20.6	17.7	18.5	17.2	22.4	19.7	20.3
Middle East	466.6	497.5	520.6	551.1	566.3	587.4	609.4	632.3	654.4	674.4
Iran	143.9	150.4	156.4	156.7	174.6	184.1	199.8	215.7	227.5	240.0
Iraq	7.1	6.3	6.3	7.1	7.5	7.3	9.9	10.1	10.6	10.8
Kuwait	11.7	13.5	15.5	16.3	15.0	16.9	17.3	17.1	18.1	20.0
Qatar	123.1	150.4	162.5	168.2	169.5	174.9	173.6	168.6	176.5	178.1
Saudi Arabia	73.3	74.7	81.1	82.0	85.1	87.3	90.8	95.5	96.8	98.1
United Arab Emirates	51.3	52.3	54.3	54.6	54.2	60.2	61.1	62.1	62.4	62.7
Other	56.1	49.9	44.5	66.2	60.2	56.7	56.9	63.2	62.6	64.8
Africa	209.2	203.0	211.5	198.6	199.5	198.3	209.0	229.2	240.0	241.3
Algeria	0.7	0.8	0.8	0.9	0.7	0.8	1.7	3.4	4.1	0.0
Angola	84.6	81.8	85.3	81.0	82.6	84.0	94.7	96.2	97.1	90.5
Egypt	56.8	56.4	54.1	48.1	43.1	38.3	42.6	52.5	62.8	69.7
Libya	16.0	7.5	11.6	12.2	11.8	11.0	9.4	8.6	8.3	9.4
Nigeria	32.5	38.3	41.2	37.2	42.4	43.7	40.3	45.1	44.1	44.7
South Africa	1.5	1.4	1.2	1.3	1.1	1.3	1.1	0.9	0.7	0.6
Other	16.9	16.9	17.3	18.0	17.8	19.3	19.2	22.5	22.9	26.5
Asia-Pacific	483.1	485.9	483.5	507.6	524.6	531.0	547.5	570.1	590.9	626.9
Australia	52.7	56.4	54.0	62.4	63.3	67.5	83.6	103.1	117.8	138.9
China	95.8	105.3	110.6	120.9	130.2	134.6	136.9	148.0	159.1	175.0
India	51.2	46.5	39.8	34.6	32.7	31.1	30.8	31.7	32.1	30.8
Indonesia	85.7	81.5	77.1	76.5	75.3	75.0	74.0	71.8	72.1	65.7
Japan	3.5	3.5	3.4	3.1	2.9	2.8	2.9	3.0	2.8	2.6
Malaysia	60.5	62.4	61.0	69.0	69.7	68.6	67.8	66.5	64.7	66.4
New Zealand	4.8	4.4	4.6	4.8	5.2	5.0	5.1	5.0	4.4	4.7
South Korea	0.5	0.5	0.4	0.5	0.3	0.2	0.2	0.3	0.3	0.2
Thailand	31.6	28.1	33.5	36.3	37.0	33.0	32.3	30.2	29.4	29.8
Other	96.8	97.4	99.0	99.7	108.0	113.2	113.9	110.4	108.3	112.8
OECD	1,180.9	1,204.0	1,230.8	1,240.3	1,278.0	1,304.8	1,318.6	1,359.8	1,451.4	1,539.4
Non-OECD	2,146.2	2,211.9	2,240.2	2,299.5	2,308.9	2,324.7	2,345.8	2,444.1	2,503.4	2,571.2
World	3,327.1	3,415.9	3,471.1	3,539.8	3,586.9	3,629.5	3,664.4	3,803.9	3,954.8	4,110.6

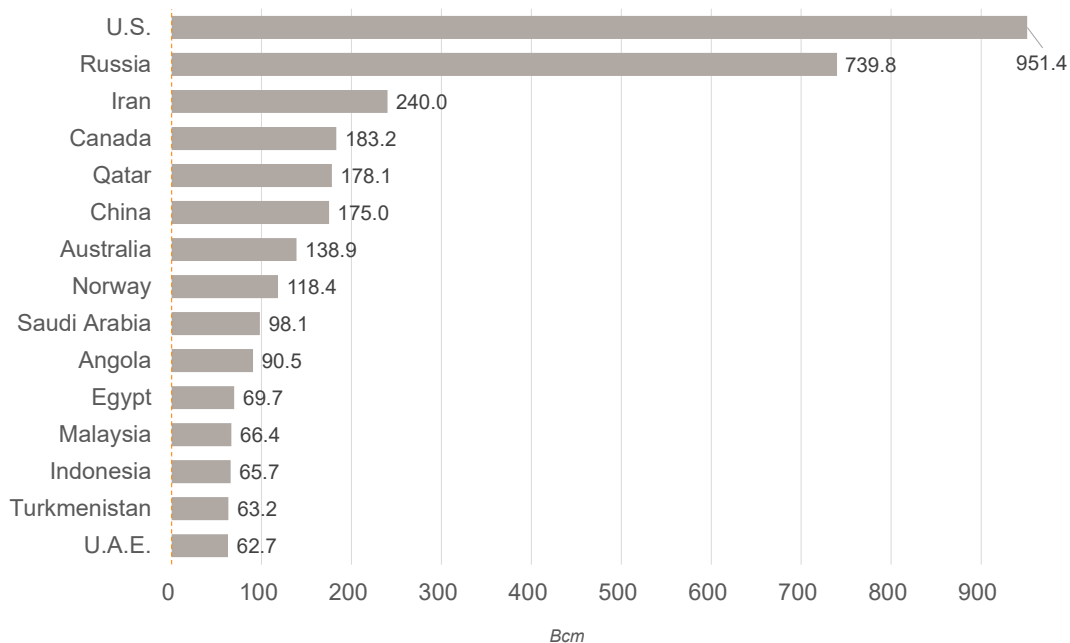
Natural Gas Demand (Bcm)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	850.1	871.4	909.1	921.0	938.1	956.8	964.6	962.5	1,050.2	1,082.1
Canada	97.4	107.5	106.6	111.4	115.6	114.9	112.1	114.6	126.7	128.8
Mexico	69.6	70.9	74.1	70.2	72.1	74.8	75.8	78.2	73.5	76.7
United States	683.1	693.0	728.3	739.4	750.5	767.1	776.7	769.8	850.1	876.6
South and Central America	222.0	218.6	229.5	232.1	239.0	244.2	238.7	241.2	231.0	230.9
Argentina	46.5	48.5	50.0	50.1	50.3	51.3	52.8	52.5	50.5	50.0
Brazil	27.9	28.2	33.1	38.8	42.4	42.1	36.3	38.7	36.8	36.4
Chile	5.3	5.7	4.9	5.0	4.1	4.4	4.8	5.0	5.3	5.9
Colombia	10.6	10.0	10.4	11.0	11.6	11.3	11.8	11.0	11.5	11.8
Peru	5.4	6.3	6.9	6.7	7.4	7.6	8.5	7.5	8.0	8.3
Trinidad & Tobago	20.7	20.5	20.2	20.4	20.5	19.6	16.9	18.3	17.4	17.5
Venezuela	29.2	21.3	22.7	22.5	21.9	24.4	22.6	22.9	19.7	16.3
Other	76.4	78.2	81.4	77.7	80.8	83.4	85.0	85.3	81.9	84.6
Europe	596.6	550.1	536.7	528.3	482.5	498.8	526.3	554.0	542.9	551.9
Belgium	20.6	17.8	17.9	18.2	16.0	17.2	17.5	17.8	18.2	18.7
Czech Republic	9.3	8.4	8.4	8.5	7.5	7.9	8.5	8.7	8.3	8.7
Finland	4.1	3.6	3.2	3.0	2.7	2.3	2.0	1.8	2.1	2.0
France	48.2	42.2	43.5	44.1	37.0	39.7	43.3	43.5	41.5	42.3
Germany	94.5	85.8	85.8	87.7	79.2	81.3	87.9	95.0	92.4	95.4
Italy	83.1	77.9	74.9	70.1	61.9	67.5	70.9	75.2	72.7	74.3
Netherlands	56.2	49.2	47.2	47.0	41.5	41.0	42.1	43.5	42.8	44.6
Norway	6.3	6.0	5.8	5.8	6.2	6.4	6.2	6.4	7.2	6.7
Poland	17.2	17.2	18.1	18.2	17.7	18.2	19.0	20.1	20.8	21.3
Portugal	5.1	5.2	4.5	4.3	4.1	4.7	5.0	6.3	5.8	6.1
Romania	13.6	13.9	13.5	12.6	12.0	11.3	11.3	11.9	11.9	12.4
Spain	35.8	33.3	32.4	29.6	27.2	28.2	28.8	31.1	31.0	35.4
Sweden	1.6	1.3	1.2	1.1	0.9	1.0	0.9	1.0	1.1	1.1
Turkey	38.1	44.7	45.3	45.9	48.7	48.1	46.5	54.0	50.1	45.3
United Kingdom	99.4	82.7	77.6	77.1	70.7	72.7	82.0	79.5	80.2	79.8
EU	545.8	493.3	479.5	470.1	422.0	438.2	467.1	486.6	478.9	493.9
Other	63.5	60.9	57.4	55.2	49.3	51.3	54.4	58.1	56.6	57.7
Former Soviet Union	654.6	674.6	668.1	653.6	647.9	615.5	607.9	625.2	657.4	668.4
Azerbaijan	8.1	8.9	9.4	9.4	9.9	11.1	10.9	10.6	10.8	11.8
Kazakhstan	25.6	25.4	25.2	27.0	28.6	29.2	30.1	30.0	32.2	30.9
Russia	465.8	476.2	471.1	465.9	464.6	445.4	444.1	463.0	489.4	501.2
Turkmenistan	18.3	20.7	22.9	19.3	20.0	25.4	25.1	24.8	28.4	31.5
Ukraine	56.7	58.4	53.5	49.5	41.0	33.1	32.2	31.0	32.1	29.5
Uzbekistan	47.7	53.3	55.1	48.1	49.1	43.3	37.5	37.1	39.0	40.9
Other	32.4	31.6	31.0	34.3	34.8	27.9	28.0	28.8	25.6	22.6
Middle East	374.4	394.9	410.8	424.4	450.8	479.5	499.2	515.9	538.2	556.5
Iran	144.4	152.8	151.8	152.9	172.5	184.1	196.7	206.5	216.6	226.4
Iraq	7.1	6.3	6.3	7.1	7.5	7.3	9.9	11.4	14.6	19.9
Kuwait	14.5	17.0	18.2	18.5	18.3	20.9	22.3	22.6	23.5	25.6
Qatar	25.4	28.7	33.6	35.5	38.5	42.4	40.2	39.9	41.4	41.1
Saudi Arabia	73.3	74.7	81.1	82.0	85.1	87.3	90.8	95.5	96.8	98.1
United Arab Emirates	60.9	63.0	66.2	67.5	66.3	74.2	74.7	73.5	74.3	75.1
Other	48.6	52.4	53.6	60.9	62.5	63.3	64.6	66.4	71.1	70.3
Africa	107.9	117.4	123.6	122.9	123.9	131.1	136.7	143.6	150.6	154.0
Algeria	27.4	29.6	33.8	34.6	37.8	40.6	40.7	42.1	45.7	47.9
Angola	0.7	0.7	0.7	0.4	0.3	0.8	0.8	0.8	0.0	0.0
Egypt	43.8	47.8	47.9	46.0	42.7	45.0	50.8	55.3	59.0	60.0
Libya	6.9	5.3	5.6	7.0	5.8	4.4	5.0	4.5	0.0	0.0
Nigeria	10.8	15.0	15.4	15.2	17.1	17.2	16.8	17.3	16.8	16.7
South Africa	4.7	4.7	5.0	5.0	4.8	5.3	5.4	5.2	5.1	4.8
Other	13.5	14.2	15.1	14.8	15.3	17.8	17.2	18.3	24.1	24.6
Asia-Pacific	599.6	623.2	649.6	680.5	700.0	704.1	733.1	760.9	820.1	851.1
Australia	32.1	32.6	33.8	35.6	36.4	37.1	38.8	39.6	41.1	47.3
China	125.1	131.3	147.2	167.5	184.3	191.8	207.9	237.8	279.9	304.0
India	64.1	64.5	57.3	51.9	51.3	52.6	55.9	59.5	61.1	63.7
Indonesia	43.5	41.0	40.8	41.9	42.9	42.9	41.6	39.8	41.7	40.4
Japan	102.9	120.1	124.8	124.3	125.4	119.5	121.8	118.7	113.6	108.2
Malaysia	37.3	37.5	38.4	45.2	45.5	44.5	42.4	38.2	39.6	42.2
New Zealand	4.7	4.3	4.5	4.8	5.4	5.1	5.1	5.2	4.6	4.8
South Korea	43.2	46.5	50.2	52.6	47.4	44.3	47.0	48.8	56.6	54.8
Thailand	42.1	39.4	45.0	48.4	48.4	48.2	47.3	44.7	44.1	44.5
Other	104.6	106.1	107.5	108.3	112.9	118.1	125.3	128.8	137.8	141.2
OECD	1,612.9	1,607.5	1,639.7	1,653.5	1,624.0	1,651.4	1,694.8	1,719.2	1,801.1	1,841.4
Non-OECD	1,792.2	1,842.8	1,887.5	1,909.1	1,958.2	1,978.7	2,011.6	2,084.1	2,189.3	2,253.6
World	3,405.1	3,450.3	3,527.3	3,562.6	3,582.2	3,630.1	3,706.4	3,803.3	3,990.3	4,095.0

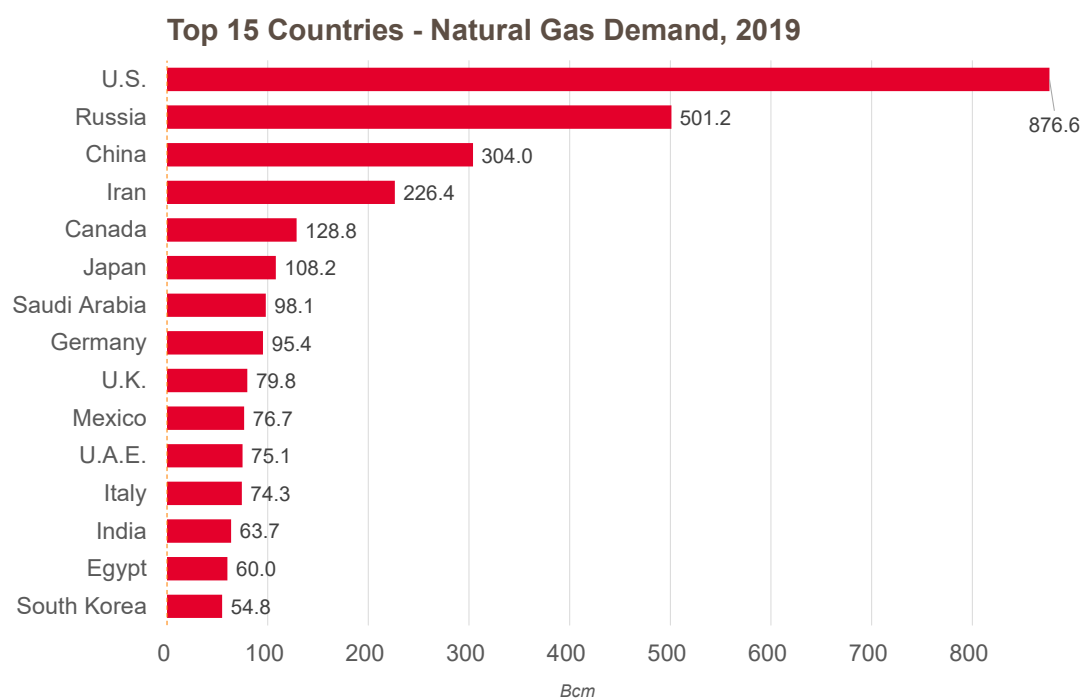
Note: Natural gas primary demand including power generation feedstock.

Top 15 Countries - Natural Gas Proved Reserves, 2019



Top 15 Countries - Natural Gas Production, 2019





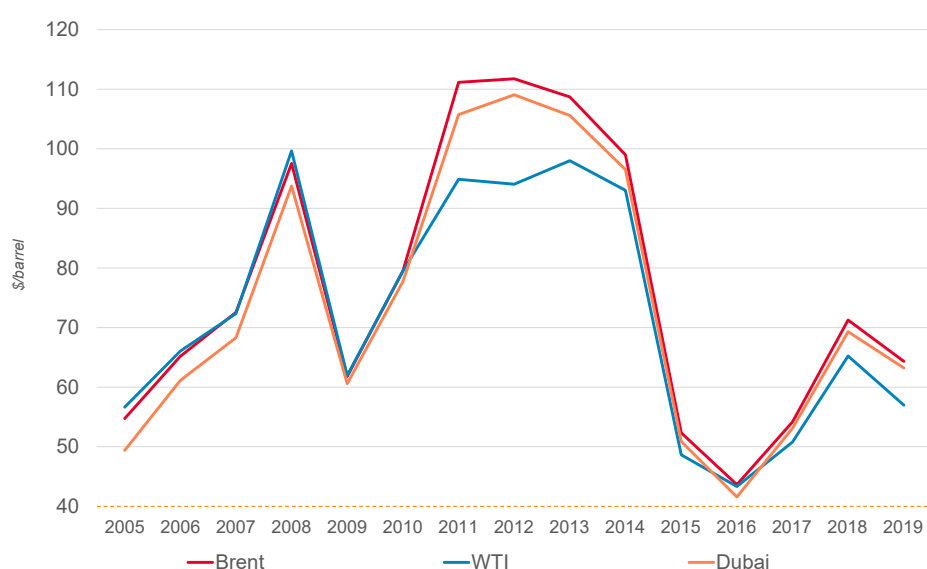


Oil and
Natural Gas
prices

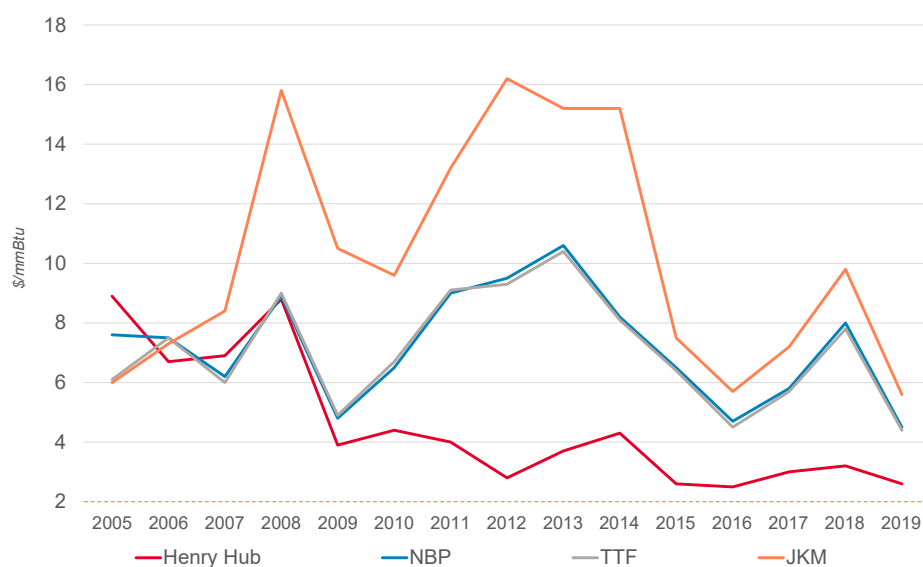
Oil and Natural Gas Prices	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Crude oil (\$ per barrel)										
Brent	79.5	111.2	111.8	108.7	99.0	52.3	43.7	54.2	71.3	64.3
WTI	79.5	94.9	94.1	98.0	93.0	48.7	43.3	50.8	65.2	57.0
Dubai	77.7	105.7	109.1	105.6	96.5	50.9	41.6	53.1	69.3	63.2
Natural gas (dollar per million Btu)										
Henry Hub (HH)	4.4	4.0	2.8	3.7	4.3	2.6	2.5	3.0	3.2	2.6
National Balancing Point (NBP)	6.5	9.0	9.5	10.6	8.2	6.5	4.7	5.8	8.0	4.5
Japan Korea Marker (JKM)	9.6	13.2	16.2	15.2	15.2	7.5	5.7	7.2	9.8	5.6
Title Transfer Facility (TTF)	6.7	9.1	9.3	10.4	8.1	6.4	4.5	5.7	7.8	4.4

Source: Thomson Reuters

Crude Oil Price Benchmarks



Natural Gas Price Benchmarks





Power
Generation

Total Power Generation (TWh)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	5,258	5,286	5,231	5,262	5,303	5,294	5,309	5,267	5,421	5,380
Canada	604	633	633	659	661	667	667	658	650	649
Mexico	276	303	307	297	301	311	321	322	332	346
United States	4,378	4,349	4,291	4,306	4,340	4,317	4,322	4,286	4,439	4,385
South and Central America	1,099	1,142	1,188	1,235	1,231	1,270	1,273	1,286	1,293	1,299
Argentina	126	130	136	139	139	145	147	146	147	140
Brazil	516	532	553	571	591	582	579	589	601	615
Chile	60	66	70	73	71	75	79	79	81	83
Colombia	59	61	62	74	71	78	77	79	82	78
Peru	36	39	40	44	46	48	52	53	55	n.d.
Trinidad & Tobago	8	9	9	10	10	10	11	11	11	n.d.
Venezuela	114	118	122	123	103	123	108	107	91	89
Other	180	187	197	201	201	209	221	221	225	n.d.
Europe	3,866	3,822	3,850	3,822	3,752	3,812	3,852	3,900	3,902	3,831
Belgium	95	90	83	83	73	70	86	87	75	94
Czech Republic	86	87	87	87	86	84	83	87	88	87
Finland	81	74	70	71	68	69	69	68	70	69
France	569	573	573	582	572	579	564	562	582	570
Germany	633	613	630	639	628	647	649	654	647	616
Italy	302	303	299	290	280	283	290	296	290	293
Netherlands	119	114	103	102	103	110	115	117	114	120
Norway	124	128	148	134	142	145	150	149	147	135
Poland	158	164	162	165	159	165	167	170	170	164
Portugal	54	52	47	52	53	52	60	59	60	53
Romania	61	62	59	59	66	66	65	64	65	60
Spain	302	294	298	286	279	281	275	276	274	274
Sweden	149	150	167	153	154	162	156	164	163	157
Turkey	211	229	239	240	252	262	274	297	305	304
United Kingdom	382	368	364	358	338	339	339	338	333	324
EU	3,367	3,310	3,304	3,279	3,199	3,244	3,267	3,299	3,281	3,229
Other	541	520	521	522	500	498	510	511	520	511
Former Soviet Union	1,483	1,514	1,543	1,538	1,542	1,532	1,558	1,555	1,592	1,596
Azerbaijan	19	20	23	23	25	25	25	24	25	n.d.
Kazakhstan	83	87	93	103	105	106	107	103	107	108
Russia	1,038	1,055	1,071	1,059	1,064	1,068	1,091	1,094	1,112	1,122
Ukraine	189	195	199	194	183	164	165	156	160	152
Uzbekistan	52	53	53	55	56	58	59	62	64	65
Other	103	104	104	104	109	111	111	115	124	n.d.
Middle East	892	916	958	989	1,057	1,113	1,148	1,194	1,227	1,243
Iran	233	240	254	262	275	281	289	308	311	315
Iraq	49	54	46	58	68	69	80	87	103	108
Kuwait	57	57	63	61	65	68	70	73	75	76
Qatar	28	31	35	35	39	41	42	46	49	n.d.
Saudi Arabia	240	250	272	284	312	338	345	348	352	350
United Arab Emirates	98	99	103	106	117	127	130	135	136	138
Other	187	185	186	182	182	188	192	198	201	n.d.
Africa	675	699	727	749	778	802	810	831	854	858
Algeria	48	56	62	65	71	75	78	83	84	90
Angola	5	6	6	8	9	10	10	11	11	n.d.
Egypt	147	157	165	168	175	186	186	188	194	195
Libya	33	26	34	38	38	38	36	37	38	n.d.
Nigeria	26	27	29	29	32	32	32	32	31	32
South Africa	260	263	258	256	253	250	253	255	256	252
Other	156	164	173	185	200	211	215	225	239	n.d.
Asia-Pacific	8,317	8,922	9,303	9,884	10,259	10,558	11,126	11,686	12,360	12,706
Australia	253	254	251	249	247	251	257	258	261	263
China	4,208	4,716	4,994	5,447	5,679	5,860	6,218	6,635	7,146	7,482
India	982	1,074	1,125	1,193	1,295	1,374	1,457	1,532	1,610	1,614
Indonesia	170	183	200	216	228	234	248	255	267	279
Japan	1,171	1,111	1,099	1,104	1,076	1,059	1,061	1,068	1,048	1,013
Malaysia	125	129	134	138	147	150	157	165	171	177
New Zealand	45	44	44	43	44	44	44	44	44	45
South Korea	500	523	535	542	551	553	563	567	584	576
Taiwan	248	253	251	253	261	259	265	268	274	272
Thailand	160	156	167	170	172	177	191	187	187	197
Other	458	478	503	528	559	597	666	707	767	789
OECD	10,989	10,950	10,936	10,943	10,892	10,935	11,012	11,039	11,189	11,047
Non-OECD	10,600	11,350	11,864	12,537	13,029	13,446	14,065	14,679	15,461	15,865
World	21,589	22,300	22,800	23,480	23,922	24,381	25,077	25,719	26,650	26,913

Renewables in Power Generation (%)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	16.8%	19.0%	19.0%	19.8%	20.0%	20.3%	21.9%	23.7%	23.5%	23.9%
Canada	61.4%	62.6%	63.6%	63.9%	63.5%	63.7%	65.1%	65.7%	65.2%	64.9%
Mexico	16.6%	14.9%	13.8%	13.3%	17.5%	15.3%	15.3%	16.0%	16.3%	17.5%
United States	10.6%	12.7%	12.4%	13.0%	13.4%	13.6%	15.3%	17.3%	17.4%	17.9%
South and Central America	67.8%	70.0%	66.7%	63.8%	62.6%	61.2%	64.2%	66.5%	68.9%	168.9%
Argentina	28.8%	32.5%	29.5%	31.7%	31.8%	28.4%	27.2%	29.5%	29.8%	31.7%
Brazil	84.7%	87.1%	82.4%	76.7%	73.1%	74.0%	80.3%	79.1%	82.3%	82.3%
Chile	40.2%	39.6%	36.4%	35.7%	42.9%	43.6%	43.3%	43.9%	46.3%	45.1%
Colombia	72.1%	83.5%	79.6%	69.4%	69.3%	64.0%	65.9%	79.6%	76.0%	72.6%
Peru	57.7%	56.8%	55.3%	53.9%	52.4%	52.7%	50.5%	59.4%	61.2%	n.d.
Trinidad & Tobago	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Venezuela	67.5%	70.9%	67.4%	67.9%	62.3%	61.1%	58.4%	60.7%	65.0%	73.7%
Europe	25.2%	25.2%	28.4%	30.9%	32.3%	33.6%	34.0%	33.8%	36.4%	38.7%
Belgium	8.2%	10.6%	14.2%	15.6%	18.4%	22.3%	18.0%	19.6%	24.5%	21.3%
Czech Republic	7.6%	9.1%	10.1%	11.8%	11.9%	12.8%	12.7%	12.4%	11.9%	12.8%
Finland	30.0%	32.9%	40.6%	36.0%	38.6%	44.5%	44.2%	46.6%	45.8%	n.d.
France	14.6%	12.4%	15.7%	17.9%	17.4%	16.7%	18.4%	17.4%	20.4%	20.5%
Germany	17.6%	21.1%	23.7%	24.8%	26.8%	29.9%	29.9%	34.0%	36.0%	41.2%
Italy	26.6%	28.1%	31.5%	39.3%	43.7%	39.0%	37.9%	35.7%	40.3%	40.5%
Netherlands	9.4%	10.8%	12.1%	11.9%	11.3%	12.4%	12.8%	14.9%	16.0%	17.4%
Norway	95.7%	96.6%	98.0%	97.7%	97.7%	97.7%	97.8%	97.8%	97.7%	97.6%
Poland	7.3%	8.3%	10.7%	10.7%	12.8%	14.1%	14.0%	14.4%	12.9%	15.8%
Portugal	53.2%	47.1%	43.8%	59.2%	61.4%	48.7%	55.5%	40.9%	52.2%	55.0%
Romania	33.9%	26.6%	25.7%	34.8%	42.0%	40.1%	42.2%	38.3%	41.0%	41.2%
Spain	33.5%	30.6%	30.4%	40.5%	40.9%	35.7%	39.3%	32.9%	39.5%	38.0%
Sweden	55.3%	56.0%	59.1%	54.1%	55.9%	63.3%	57.2%	57.9%	55.7%	58.7%
Turkey	26.4%	25.3%	27.2%	28.8%	20.9%	32.0%	32.9%	29.3%	32.1%	44.2%
United Kingdom	7.7%	10.4%	12.2%	15.7%	19.9%	25.4%	25.4%	30.2%	33.9%	37.5%
EU	21.1%	21.4%	24.2%	27.2%	29.2%	29.8%	30.1%	30.5%	33.1%	34.7%
Former Soviet Union	16.3%	15.6%	15.3%	16.6%	15.9%	15.5%	16.7%	17.2%	17.3%	17.6%
Azerbaijan	18.4%	13.2%	7.9%	6.7%	5.6%	7.0%	8.4%	7.8%	7.8%	n.d.
Kazakhstan	9.7%	9.1%	8.2%	7.5%	7.9%	8.9%	11.2%	11.3%	10.3%	10.1%
Russia	16.3%	15.9%	15.7%	17.3%	16.7%	16.0%	17.2%	17.2%	17.4%	17.9%
Ukraine	7.1%	5.7%	5.9%	8.1%	6.0%	5.3%	6.6%	8.0%	9.0%	7.2%
Uzbekistan	15.8%	10.8%	12.6%	10.4%	10.9%	12.3%	12.4%	13.6%	11.8%	11.2%
Middle East	2.0%	2.2%	2.3%	2.5%	2.0%	1.8%	2.2%	1.9%	2.1%	3.8%
Iran	4.2%	5.1%	5.0%	5.7%	5.2%	5.1%	5.8%	5.0%	5.4%	9.4%
Iraq	9.7%	6.3%	9.5%	8.1%	4.3%	3.7%	4.2%	1.7%	1.4%	1.8%
Kuwait	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Qatar	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Saudi Arabia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%
United Arab Emirates	0.0%	0.0%	0.0%	0.1%	0.3%	0.2%	0.3%	0.6%	1.0%	3.2%
Africa	17.5%	17.2%	16.7%	17.2%	18.0%	17.7%	17.6%	18.3%	19.5%	20.2%
Algeria	0.4%	0.9%	1.0%	0.5%	0.4%	0.3%	0.4%	0.8%	0.9%	0.9%
Angola	68.0%	70.9%	60.8%	58.0%	53.2%	53.2%	56.1%	71.4%	72.4%	n.d.
Egypt	10.0%	9.3%	8.9%	8.8%	8.9%	8.5%	8.4%	8.6%	9.0%	10.0%
Libya	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Nigeria	24.4%	21.8%	19.8%	18.5%	16.6%	17.7%	17.6%	17.2%	17.5%	20.3%
South Africa	2.1%	2.0%	1.7%	1.7%	2.6%	3.5%	4.4%	5.5%	6.3%	6.5%
Asia-Pacific	15.8%	15.3%	17.0%	17.7%	19.1%	19.9%	21.1%	21.7%	22.5%	122.5%
Australia	8.6%	10.4%	10.5%	13.2%	14.6%	13.3%	14.6%	15.7%	17.1%	18.2%
China	18.8%	17.0%	20.1%	20.5%	22.8%	24.1%	25.3%	25.5%	25.9%	27.0%
India	16.2%	17.3%	15.9%	17.5%	16.3%	15.6%	16.7%	17.2%	18.5%	20.7%
Indonesia	15.9%	12.0%	11.2%	12.3%	11.5%	10.7%	12.6%	12.5%	11.8%	11.9%
Japan	10.2%	10.9%	10.5%	11.3%	12.8%	14.7%	14.7%	16.4%	17.4%	18.0%
Malaysia	6.0%	6.7%	7.4%	8.6%	9.7%	10.0%	13.5%	16.9%	16.1%	16.1%
New Zealand	73.3%	76.2%	71.9%	74.3%	79.2%	80.1%	84.3%	81.2%	83.4%	81.9%
South Korea	1.8%	2.0%	2.0%	2.4%	2.5%	2.6%	3.5%	4.0%	4.5%	4.8%
Taiwan	4.2%	4.1%	4.8%	4.9%	4.4%	4.7%	5.4%	5.2%	5.2%	6.1%
Thailand	5.6%	8.0%	8.3%	8.1%	8.4%	8.4%	15.1%	16.4%	20.1%	20.1%
OECD	18.1%	19.4%	20.4%	21.6%	22.4%	23.2%	24.1%	25.2%	26.1%	27.2%
Non-OECD	21.7%	21.0%	21.9%	22.3%	22.7%	22.9%	24.1%	24.5%	25.2%	26.2%
World	19.9%	20.2%	21.2%	22.0%	22.6%	23.1%	24.1%	24.8%	25.5%	26.6%



CO₂ Emissions from Fossil Fuels

Total CO₂ Emissions (Million tonnes of carbon dioxide)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	6,696	6,519	6,337	6,447	6,484	6,357	6,248	6,179	6,333	6,198
Canada	597	613	618	626	626	628	616	614	623	619
Mexico	484	495	494	483	472	486	493	485	474	469
United States	5,614	5,411	5,226	5,338	5,386	5,242	5,139	5,080	5,236	5,110
South and Central America	1,241	1,271	1,338	1,375	1,415	1,391	1,357	1,316	1,269	1,233
Argentina	185	193	198	194	197	204	203	196	182	180
Brazil	441	463	499	528	558	524	484	492	465	462
Chile	73	80	82	85	78	83	90	91	91	90
Colombia	67	73	73	83	86	87	96	84	85	92
Peru	46	49	50	50	54	55	58	55	55	n.d.
Trinidad & Tobago	48	47	45	46	46	45	41	39	40	n.d.
Venezuela	193	173	196	189	190	181	168	146	128	111
Other	188	194	196	200	205	212	217	213	223	n.d.
Europe	4,497	4,382	4,339	4,241	4,068	4,128	4,135	4,195	4,129	3,967
Belgium	122	112	110	111	105	110	109	108	111	111
Czech Republic	123	119	116	111	108	109	110	112	111	108
Finland	67	60	54	55	51	47	51	48	50	n.d.
France	387	368	371	370	338	343	343	349	334	326
Germany	827	798	813	832	791	795	799	787	759	710
Italy	430	422	399	365	348	355	352	347	342	335
Netherlands	201	188	186	185	178	185	185	184	177	180
Norway	47	46	45	45	45	45	44	44	47	48
Poland	339	337	331	328	316	321	331	345	349	327
Portugal	54	53	51	51	50	54	53	57	55	53
Romania	86	93	89	78	78	78	76	79	79	84
Spain	289	292	286	259	258	273	264	280	277	260
Sweden	55	50	46	45	44	44	45	45	45	45
Turkey	314	337	350	341	363	375	398	438	439	427
United Kingdom	507	466	488	476	435	423	398	384	381	363
EU	3,991	3,850	3,803	3,712	3,533	3,573	3,553	3,573	3,506	3,365
Other	649	640	604	590	560	570	576	587	574	n.d.
Former Soviet Union	2,604	2,735	2,738	2,677	2,602	2,564	2,548	2,572	2,727	2,754
Azerbaijan	27	30	32	32	34	33	34	33	33	n.d.
Kazakhstan	227	242	245	262	249	260	273	272	284	280
Russia	1,773	1,849	1,842	1,790	1,769	1,773	1,753	1,801	1,924	1,957
Ukraine	318	337	329	315	266	225	225	203	213	203
Uzbekistan	108	117	122	111	112	100	90	89	95	97
Other	152	159	169	167	172	172	173	174	178	217
Middle East	1,762	1,823	1,912	1,953	2,028	2,051	2,069	2,102	2,132	2,168
Iran	589	607	616	631	659	647	652	674	701	714
Iraq	120	132	153	163	167	161	173	173	191	198
Kuwait	81	83	82	91	87	97	98	95	95	98
Qatar	68	76	86	88	95	97	98	99	108	n.d.
Saudi Arabia	456	475	507	515	550	576	573	575	552	557
United Arab Emirates	166	170	180	189	191	202	207	212	212	212
Other	281	280	288	275	278	272	268	275	271	n.d.
Africa	1,197	1,184	1,253	1,294	1,341	1,331	1,345	1,366	1,408	1,416
Algeria	115	119	129	132	144	152	150	151	161	164
Angola	29	30	31	34	35	36	36	30	33	n.d.
Egypt	213	218	229	225	226	231	238	243	244	241
Libya	62	40	54	57	59	53	50	51	52	n.d.
Nigeria	91	93	94	113	119	111	111	115	116	114
South Africa	442	427	443	454	466	441	442	444	456	461
Other	245	257	273	279	292	309	316	331	345	n.d.
Asia-Pacific	15,276	16,346	16,999	17,650	17,805	17,811	17,930	18,267	18,800	19,016
Australia	419	417	415	408	399	406	417	422	420	426
China	9,388	10,238	10,610	11,150	11,104	11,027	11,042	11,163	11,482	11,804
India	1,762	1,861	2,022	2,080	2,246	2,268	2,295	2,405	2,505	2,477
Indonesia	418	446	484	484	522	527	523	564	608	646
Japan	1,208	1,260	1,303	1,312	1,271	1,232	1,222	1,206	1,174	1,134
Malaysia	209	215	219	238	246	246	243	244	254	260
New Zealand	34	33	35	35	36	36	35	36	36	36
South Korea	640	673	679	678	675	692	708	719	729	702
Taiwan	275	275	265	270	275	274	279	291	295	287
Thailand	251	251	269	283	278	283	281	281	290	293
Other	671	676	698	714	754	821	885	936	1,006	950
OECD	13,353	13,130	12,982	13,008	12,820	12,735	12,656	12,641	12,715	12,367
Non-OECD	19,920	21,129	21,935	22,629	22,924	22,898	22,976	23,356	24,092	24,396
World	33,273	34,259	34,917	35,637	35,744	35,633	35,632	35,997	36,789	36,718

Note: Total CO₂ emissions includes emissions from fuel combustion, emissions from industrial process, fugitive emissions from flared gas and emissions from wastes

Oil CO₂ Emissions (Million tonnes of carbon dioxide)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	2,661	2,553	2,523	2,544	2,546	2,593	2,606	2,588	2,629	2,605
Canada	274	274	279	280	275	281	280	275	268	263
Mexico	254	261	263	259	247	245	254	247	249	241
United States	2,133	2,018	1,982	2,005	2,024	2,067	2,072	2,066	2,112	2,101
South and Central America	729	750	792	792	813	786	767	746	716	690
Argentina	82	85	88	83	86	90	88	82	72	72
Brazil	276	294	314	326	340	316	298	301	282	278
Chile	43	44	44	45	44	45	47	48	48	49
Colombia	31	35	37	39	41	42	44	42	44	45
Peru	25	27	26	27	26	28	30	30	30	n.d.
Trinidad & Tobago	4	4	4	4	4	4	4	4	3	n.d.
Venezuela	111	102	117	106	106	90	81	67	59	53
Other	158	160	163	162	166	170	174	172	178	n.d.
Europe	1,654	1,594	1,547	1,514	1,495	1,536	1,556	1,583	1,579	1,595
Belgium	51	47	46	47	45	48	46	46	46	45
Czech Republic	21	21	21	20	21	21	21	22	22	23
Finland	25	24	23	23	21	21	23	22	22	n.d.
France	204	204	199	195	189	191	188	188	183	183
Germany	267	256	258	264	255	257	257	259	252	256
Italy	186	180	165	152	152	154	148	143	145	145
Netherlands	64	64	62	61	59	59	61	61	59	62
Norway	22	22	21	21	20	20	20	19	19	21
Poland	67	66	63	58	58	62	69	78	81	82
Portugal	31	28	25	25	25	25	25	25	26	29
Romania	23	24	25	23	24	24	25	27	27	29
Spain	161	150	138	133	132	139	142	144	148	149
Sweden	33	30	28	27	27	27	28	27	27	28
Turkey	72	74	77	81	84	96	104	120	117	118
United Kingdom	167	160	160	155	155	160	163	164	165	159
EU	1,502	1,444	1,396	1,357	1,339	1,369	1,380	1,392	1,391	1,407
Other	260	246	235	229	227	233	237	240	240	n.d.
Former Soviet Union	447	479	478	477	481	480	469	479	486	497
Azerbaijan	8	9	10	10	10	11	11	11	11	n.d.
Kazakhstan	30	36	33	47	33	41	46	42	44	46
Russia	315	339	338	327	348	343	323	341	343	349
Ukraine	38	38	37	36	31	29	31	29	30	31
Uzbekistan	11	10	9	8	8	7	7	6	7	7
Other	45	47	51	49	50	49	51	50	52	n.d.
Middle East	859	878	925	946	973	945	922	919	907	904
Iran	228	230	237	251	243	214	194	195	200	192
Iraq	94	99	115	124	129	118	127	120	129	133
Kuwait	51	48	45	52	49	53	52	48	47	45
Qatar	13	12	15	14	17	16	17	17	19	n.d.
Saudi Arabia	298	311	330	335	364	387	376	372	348	350
United Arab Emirates	37	38	39	43	45	41	45	51	50	48
Other	138	140	145	126	126	115	111	117	114	n.d.
Africa	456	453	482	524	543	550	549	556	562	556
Algeria	44	47	50	52	55	58	56	55	57	56
Angola	14	15	15	19	20	20	20	17	18	n.d.
Egypt	102	101	107	110	118	121	117	115	108	103
Libya	39	26	34	37	37	31	28	29	29	n.d.
Nigeria	36	33	34	54	60	54	57	57	58	57
South Africa	63	68	68	73	70	73	69	72	73	73
Other	158	163	173	180	183	193	203	212	218	n.d.
Asia-Pacific	2,946	3,055	3,200	3,262	3,278	3,410	3,479	3,586	3,675	3,807
Australia	122	129	131	137	135	135	135	138	141	139
China	1,061	1,083	1,147	1,208	1,238	1,322	1,353	1,396	1,478	1,572
India	408	427	453	458	480	529	560	589	610	630
Indonesia	191	215	237	231	234	221	210	233	234	249
Japan	472	506	520	498	457	438	423	411	387	365
Malaysia	69	76	74	84	88	82	80	82	84	86
New Zealand	18	18	18	18	18	19	19	20	21	21
South Korea	186	179	182	182	179	191	199	195	192	189
Taiwan	81	76	73	72	72	75	74	78	78	76
Thailand	94	98	105	108	108	108	112	114	119	120
Other	244	248	259	267	268	291	313	332	330	359
OECD	5,097	4,964	4,914	4,880	4,812	4,892	4,919	4,914	4,929	4,892
Non-OECD	4,656	4,798	5,033	5,180	5,318	5,408	5,428	5,543	5,625	5,760
World	9,753	9,762	9,948	10,060	10,130	10,300	10,347	10,457	10,554	10,653

Natural Gas CO ₂ Emissions (Million tonnes of carbon dioxide)										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	1,626	1,666	1,746	1,774	1,811	1,855	1,869	1,853	2,021	2,083
Canada	183	201	205	215	226	225	219	223	247	251
Mexico	136	141	148	141	139	145	147	151	142	148
United States	1,306	1,324	1,393	1,418	1,446	1,485	1,503	1,479	1,633	1,684
South and Central America	288	279	295	308	318	323	311	311	300	293
Argentina	90	94	96	97	97	99	102	101	97	96
Brazil	53	55	64	76	83	82	71	76	72	71
Chile	10	11	9	10	8	8	9	10	10	11
Colombia	19	17	18	19	20	20	21	19	20	21
Peru	13	15	16	15	18	18	19	17	17	n.d.
Trinidad & Tobago	33	33	33	33	34	32	29	28	29	n.d.
Venezuela	60	44	46	46	45	50	46	47	40	33
Other	10	11	12	13	14	14	15	14	14	n.d.
Europe	1,134	1,045	1,020	1,004	915	951	1,006	1,051	1,031	1,050
Belgium	39	33	33	33	29	32	33	33	34	35
Czech Republic	18	17	16	17	15	16	17	17	16	17
Finland	9	8	7	7	6	5	5	5	5	n.d.
France	96	85	88	89	75	80	88	89	85	86
Germany	180	164	164	168	151	156	169	174	169	176
Italy	158	149	143	133	118	129	135	143	139	142
Netherlands	92	80	77	77	68	67	69	71	70	73
Norway	13	13	12	12	13	14	13	14	16	15
Poland	28	29	30	31	29	30	33	34	36	37
Portugal	10	11	9	9	8	10	10	13	12	12
Romania	24	25	24	23	21	21	21	22	22	23
Spain	73	67	66	60	55	57	58	63	63	72
Sweden	3	3	2	2	2	2	2	2	2	2
Turkey	74	86	87	89	94	93	89	104	97	87
United Kingdom	197	163	153	151	137	144	163	158	159	158
EU	1,035	934	908	891	797	834	892	920	906	936
Other	119	114	108	104	92	96	102	109	106	n.d.
Former Soviet Union	1,205	1,246	1,238	1,213	1,202	1,138	1,146	1,175	1,240	1,261
Azerbaijan	16	18	19	19	21	20	20	20	20	n.d.
Kazakhstan	50	51	54	58	62	63	66	66	69	67
Russia	856	878	869	861	856	817	833	864	920	943
Ukraine	102	105	96	88	73	58	57	55	57	53
Uzbekistan	88	98	101	88	90	80	69	68	72	76
Other	93	97	99	98	100	100	99	100	101	n.d.
Middle East	711	744	764	785	833	889	928	964	1,005	1,039
Iran	283	296	294	297	335	358	382	400	419	438
Iraq	10	14	13	13	13	13	14	21	26	27
Kuwait	28	33	35	35	35	40	43	43	45	49
Qatar	46	54	60	62	65	67	67	69	75	n.d.
Saudi Arabia	137	140	152	154	160	164	170	179	182	184
United Arab Emirates	116	120	126	129	126	141	142	140	141	143
Other	91	88	85	96	99	105	109	111	116	n.d.
Africa	197	218	229	227	230	242	251	263	276	283
Algeria	53	58	65	66	73	78	78	80	86	90
Angola	1	1	1	1	1	1	2	2	2	n.d.
Egypt	81	88	89	85	80	84	94	102	109	111
Libya	12	10	11	13	11	12	13	14	14	n.d.
Nigeria	20	28	29	28	31	31	30	31	30	30
South Africa	3	5	5	5	5	5	5	5	5	4
Other	26	28	30	29	30	31	30	31	31	n.d.
Asia-Pacific	1,134	1,183	1,232	1,287	1,323	1,331	1,388	1,445	1,560	1,617
Australia	62	63	66	67	69	70	73	75	78	90
China	243	253	282	322	353	371	402	461	543	590
India	117	117	101	90	89	90	97	105	108	113
Indonesia	77	78	80	82	84	84	82	79	82	80
Japan	206	241	250	248	251	239	243	237	228	217
Malaysia	67	65	67	78	80	78	73	64	66	70
New Zealand	8	8	8	9	10	9	9	9	8	9
South Korea	91	98	106	111	100	93	99	103	119	116
Taiwan	31	34	32	33	34	37	39	42	44	43
Thailand	77	71	82	87	87	87	86	81	80	80
Other	155	156	160	160	166	173	186	190	204	210
OECD	3,099	3,091	3,162	3,192	3,136	3,201	3,286	3,312	3,472	3,551
Non-OECD	3,196	3,291	3,363	3,407	3,497	3,530	3,615	3,750	3,960	4,074
World	6,295	6,382	6,524	6,599	6,632	6,731	6,900	7,062	7,432	7,625

Coal CO₂ Emissions (Million tonnes of carbon dioxide)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	2,128	2,014	1,778	1,834	1,826	1,600	1,474	1,442	1,382	1,214
Canada	90	85	77	75	73	71	67	65	56	54
Mexico	55	59	51	52	51	55	48	51	48	44
United States	1,983	1,871	1,650	1,707	1,702	1,474	1,358	1,326	1,277	1,117
South and Central America	90	98	104	121	124	128	131	121	119	120
Argentina	3	4	5	4	4	4	3	3	4	2
Brazil	48	49	52	59	65	65	60	60	60	60
Chile	18	22	25	28	25	28	29	30	28	26
Colombia	12	13	11	17	17	17	23	15	13	17
Peru	3	3	3	4	3	3	3	3	2	n.d.
Trinidad & Tobago	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Venezuela	1	1	1	1	1	1	0	1	0	0
Other	6	6	7	8	9	10	11	10	11	n.d.
Europe	1,333	1,362	1,404	1,357	1,290	1,272	1,200	1,180	1,142	956
Belgium	16	15	15	15	15	14	13	13	15	15
Czech Republic	73	71	69	65	63	62	63	62	62	58
Finland	29	24	20	22	19	17	19	18	19	n.d.
France	51	45	51	53	41	40	36	40	36	26
Germany	315	314	328	339	325	322	313	293	279	221
Italy	53	60	62	53	52	48	44	38	35	26
Netherlands	32	31	34	34	38	46	43	39	34	26
Norway	3	3	3	3	3	3	3	3	3	3
Poland	221	217	213	213	202	201	201	203	201	178
Portugal	7	9	12	11	11	13	11	13	11	5
Romania	28	33	30	24	23	24	22	22	21	22
Spain	33	53	61	45	49	55	41	50	43	17
Sweden	10	9	8	8	7	7	7	7	7	6
Turkey	128	134	142	125	138	140	156	162	174	171
United Kingdom	119	120	152	146	118	94	48	39	33	23
EU	1,140	1,155	1,195	1,165	1,095	1,069	979	953	904	726
Other	215	224	207	202	185	184	179	178	n.d.	n.d.
Former Soviet Union	696	734	733	702	639	670	654	638	700	693
Azerbaijan	0	0	0	0	0	0	0	0	0	n.d.
Kazakhstan	137	145	148	147	141	145	149	150	157	154
Russia	414	432	420	390	354	404	384	378	425	426
Ukraine	136	148	152	149	127	104	104	92	98	93
Uzbekistan	4	5	6	8	8	7	7	8	9	7
Other	4	5	7	8	10	10	10	11	12	n.d.
Middle East	38	39	46	43	43	41	38	37	36	37
Iran	5	6	5	6	6	7	6	7	7	7
Iraq	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kuwait	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Qatar	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Saudi Arabia	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
United Arab Emirates	3	2	5	7	8	7	7	8	8	8
Other	30	31	36	30	29	28	24	22	21	22
Africa	387	367	385	390	414	387	392	393	411	418
Algeria	0	0	0	0	0	0	0	0	0	0
Angola	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Egypt	1	1	1	1	1	0	0	1	1	1
Libya	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Nigeria	0	0	0	0	0	0	0	0	0	0
South Africa	363	340	357	362	377	348	354	353	364	370
Other	23	26	27	27	35	37	37	39	45	47
Asia-Pacific	9,037	9,765	10,080	10,456	10,525	10,442	10,358	10,551	10,800	10,796
Australia	209	200	193	180	171	176	181	179	170	166
China	6,474	7,126	7,293	7,601	7,466	7,361	7,254	7,311	7,410	7,470
India	1,057	1,125	1,255	1,305	1,445	1,405	1,392	1,462	1,528	1,476
Indonesia	108	109	115	116	150	165	174	194	231	251
Japan	406	391	410	440	440	435	429	429	431	424
Malaysia	59	59	63	60	61	69	75	82	87	87
New Zealand	4	4	5	5	4	4	3	3	3	3
South Korea	305	334	329	319	332	339	340	347	339	320
Taiwan	154	156	152	156	157	153	157	162	164	159
Thailand	65	66	65	69	64	68	62	66	70	71
Other	196	195	200	206	234	267	291	315	366	368
OECD	4,309	4,216	4,052	4,076	4,007	3,766	3,568	3,519	3,409	3,035
Non-OECD	9,399	10,162	10,478	10,828	10,854	10,774	10,677	10,844	11,182	11,199
World	13,709	14,379	14,530	14,904	14,861	14,539	14,246	14,362	14,591	14,234

CO₂ Emissions Intensity to GDP (kCO ₂ /thousand \$15ppp)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	337	321	304	304	299	284	274	265	265	254
Canada	385	382	376	373	365	363	351	340	337	330
Mexico	231	231	224	216	203	200	196	192	183	182
United States	333	316	298	298	293	277	268	259	259	247
South and Central America	185	181	183	180	180	178	177	172	165	161
Argentina	212	208	218	208	217	218	223	208	198	200
Brazil	123	125	133	138	145	143	137	138	129	127
Chile	209	214	209	211	192	200	209	207	200	196
Colombia	115	116	111	122	121	117	130	110	109	114
Peru	133	136	127	122	126	127	127	118	113	n.d.
Trinidad & Tobago	849	841	816	822	841	798	766	751	763	n.d.
Venezuela	335	273	291	267	276	273	298	316	344	459
Europe	198	188	187	181	169	168	164	162	156	147
Belgium	224	199	196	198	183	189	184	179	181	180
Czech Republic	348	331	323	313	296	284	281	273	263	249
Finland	277	238	218	224	207	192	201	185	191	n.d.
France	138	128	130	129	116	117	116	115	108	104
Germany	217	201	205	209	195	193	189	182	173	161
Italy	174	170	166	155	148	150	147	143	140	137
Netherlands	232	214	214	213	201	206	202	194	182	182
Norway	136	132	126	124	122	120	116	114	120	121
Poland	362	340	328	321	297	291	292	290	279	251
Portugal	151	152	154	151	146	157	152	161	150	141
Romania	202	216	205	174	167	162	151	148	141	143
Spain	163	167	169	154	150	155	145	149	144	133
Sweden	113	100	93	88	86	81	82	80	78	76
Turkey	192	186	184	164	167	164	168	173	169	163
United Kingdom	197	178	184	175	155	147	136	129	126	119
EU	200	189	188	183	171	169	165	161	155	146
Former Soviet Union	519	515	495	472	454	458	453	448	461	456
Azerbaijan	155	174	186	179	183	182	191	188	186	n.d.
Kazakhstan	620	616	594	601	543	564	585	556	558	527
Russia	497	491	468	445	437	452	447	452	471	473
Ukraine	722	719	704	676	611	561	549	493	499	462
Uzbekistan	792	800	761	642	600	492	403	382	383	372
Middle East	324	315	324	323	327	325	309	312	317	326
Iran	361	362	395	409	413	414	367	366	402	443
Iraq	249	250	250	249	256	232	220	224	248	247
Kuwait	328	304	283	308	293	324	318	314	314	320
Qatar	249	247	264	258	268	263	260	259	280	n.d.
Saudi Arabia	327	308	312	308	319	322	314	320	300	302
United Arab Emirates	308	296	302	301	289	290	290	295	290	286
Africa	210	207	207	208	209	201	199	196	195	190
Algeria	196	205	218	218	226	232	221	220	231	234
Angola	96	99	93	104	107	110	112	94	105	n.d.
Egypt	207	211	213	208	204	203	200	198	188	176
Libya	264	482	274	349	447	437	432	346	301	n.d.
Nigeria	66	68	67	82	85	77	80	81	80	77
South Africa	655	611	622	620	627	584	583	578	589	594
Asia-Pacific	377	380	373	364	347	331	314	304	297	288
Australia	411	400	383	367	349	346	345	340	330	328
China	573	570	544	529	489	457	426	406	391	379
India	270	270	278	268	271	252	236	232	227	216
Indonesia	172	173	176	166	172	165	155	161	165	167
Japan	226	238	243	240	231	221	217	211	204	196
Malaysia	307	300	289	301	293	278	266	252	250	246
New Zealand	202	192	199	195	194	184	175	178	171	169
South Korea	377	383	378	366	352	350	349	344	340	321
Taiwan	579	558	528	524	510	507	510	517	511	483
Thailand	243	241	241	246	239	236	225	217	215	212
OECD	263	253	247	244	235	227	222	216	212	203
Non-OECD	355	355	349	342	330	318	305	297	293	286
World	310	305	300	296	286	276	267	261	258	250

Note: CO₂ Emissions Intensity to GDP is calculated with CO₂ emissions from fuel combustion only.

CO₂ Emissions per capita (tCO ₂ per capita)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	14.5	14.0	13.5	13.6	13.6	13.2	12.8	12.6	12.8	12.4
Canada	17.6	17.8	17.8	17.8	17.6	17.5	17.0	16.7	16.8	16.5
Mexico	4.1	4.2	4.1	3.9	3.8	3.9	3.9	3.8	3.6	3.5
United States	18.2	17.4	16.6	16.9	16.9	16.3	15.9	15.6	16.0	15.5
South and Central America	2.6	2.6	2.8	2.8	2.9	2.8	2.7	2.6	2.5	2.4
Argentina	4.5	4.6	4.7	4.6	4.6	4.7	4.6	4.4	4.1	4.0
Brazil	2.2	2.3	2.5	2.6	2.7	2.5	2.3	2.4	2.2	2.2
Chile	4.3	4.7	4.7	4.9	4.4	4.7	5.0	5.0	5.0	4.9
Colombia	1.5	1.6	1.6	1.8	1.8	1.8	2.0	1.7	1.7	1.8
Peru	1.6	1.7	1.6	1.6	1.7	1.8	1.8	1.7	1.7	n.d.
Trinidad & Tobago	35.9	35.3	33.4	33.9	33.9	32.9	30.1	28.7	29.0	n.d.
Venezuela	6.7	5.9	6.5	6.2	6.2	5.8	5.3	4.6	3.9	3.4
Other	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.8	n.d.
Europe	7.4	7.2	7.1	6.9	6.6	6.7	6.6	6.7	6.6	6.3
Belgium	11.2	10.2	9.9	10.0	9.4	9.8	9.6	9.5	9.7	9.7
Czech Republic	11.7	11.4	11.0	10.5	10.3	10.3	10.4	10.6	10.4	10.1
Finland	12.6	11.1	10.0	10.1	9.3	8.7	9.2	8.7	9.1	n.d.
France	5.9	5.6	5.6	5.6	5.1	5.2	5.1	5.2	5.0	4.8
Germany	10.1	9.9	10.1	10.3	9.8	9.7	9.7	9.5	9.1	8.5
Italy	7.3	7.1	6.7	6.1	5.7	5.8	5.8	5.7	5.6	5.6
Netherlands	12.1	11.3	11.1	11.0	10.5	10.9	10.9	10.7	10.3	10.4
Norway	9.7	9.3	9.0	8.8	8.7	8.7	8.5	8.4	8.9	8.9
Poland	8.9	8.9	8.7	8.6	8.3	8.4	8.7	9.1	9.2	8.6
Portugal	5.1	5.0	4.9	4.9	4.8	5.2	5.1	5.6	5.3	5.1
Romania	4.2	4.6	4.4	3.9	3.9	3.9	3.9	4.1	4.1	4.3
Spain	6.2	6.2	6.1	5.5	5.5	5.9	5.7	6.0	5.9	5.6
Sweden	5.8	5.3	4.9	4.6	4.6	4.5	4.6	4.5	4.4	4.4
Turkey	4.3	4.6	4.7	4.5	4.7	4.8	5.0	5.4	5.4	5.1
United Kingdom	8.1	7.4	7.7	7.4	6.7	6.5	6.1	5.8	5.7	5.4
EU	7.9	7.6	7.5	7.3	7.0	7.0	7.0	7.0	6.8	6.5
Other	6.9	6.8	6.5	6.3	6.0	6.1	6.2	6.3	6.1	n.d.
Former Soviet Union	8.5	8.8	8.8	8.5	8.2	8.0	8.0	8.2	8.3	8.3
Azerbaijan	2.6	2.9	3.2	3.2	3.3	3.2	3.3	3.3	n.d.	n.d.
Kazakhstan	13.5	14.2	14.0	14.7	13.6	13.0	13.1	13.2	13.5	13.5
Russia	11.3	11.8	11.6	11.2	11.1	11.1	11.0	11.7	12.1	12.1
Ukraine	6.0	6.4	6.3	6.0	5.1	4.2	4.5	3.9	3.9	3.9
Uzbekistan	3.5	3.7	3.7	3.3	3.3	2.9	2.7	2.7	2.8	2.8
Other	152	159	169	167	172	172	173	174	178	217
Middle East	8.2	8.3	8.5	8.6	8.7	8.6	8.6	8.6	8.5	8.5
Iran	7.9	8.0	8.1	8.1	8.4	8.2	8.1	8.3	8.5	8.6
Iraq	3.9	4.2	4.7	4.8	4.8	4.4	4.6	4.5	4.8	4.9
Kuwait	27.1	25.9	24.3	25.2	23.1	24.7	24.3	22.8	22.4	22.4
Qatar	38.1	38.7	40.6	39.1	40.0	38.9	38.0	37.5	39.6	n.d.
Saudi Arabia	16.6	16.8	17.4	17.2	17.9	18.3	17.7	17.5	16.4	16.2
United Arab Emirates	20.1	19.6	20.2	21.0	21.1	22.0	22.4	22.5	22.3	22.0
Other	4.1	4.0	4.1	3.8	3.8	3.7	3.5	3.6	3.5	n.d.
Africa	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.1
Algeria	3.2	3.2	3.4	3.5	3.7	3.8	3.7	3.7	3.8	3.8
Angola	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.0	1.1	n.d.
Egypt	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.4
Libya	10.0	6.4	8.7	9.2	9.5	8.5	8.0	8.0	8.1	n.d.
Nigeria	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6
South Africa	8.6	8.2	8.4	8.4	8.5	8.0	7.9	7.8	7.9	7.9
Other	0.36	0.36	0.38	0.37	0.38	0.39	0.39	0.40	0.40	n.d.
Asia-Pacific	4.0	4.2	4.3	4.5	4.5	4.4	4.4	4.5	4.5	4.6
Australia	19.0	18.7	18.2	17.6	17.0	17.1	17.2	17.2	16.8	16.8
China	7.0	7.6	7.9	8.2	8.1	8.0	8.0	8.1	8.2	8.4
India	1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8
Indonesia	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.1	2.3	2.4
Japan	9.4	9.9	10.2	10.3	10.0	9.7	9.6	9.5	9.3	9.0
Malaysia	7.5	7.5	7.5	8.0	8.1	8.0	7.8	7.7	7.9	8.0
New Zealand	7.8	7.6	7.9	7.8	8.0	7.8	7.5	7.6	7.4	7.3
South Korea	12.9	13.5	13.5	13.4	13.3	13.6	13.8	14.0	14.1	13.5
Taiwan	11.9	11.8	11.4	11.5	11.7	11.6	11.8	12.3	12.5	12.1
Thailand	3.7	3.7	4.0	4.1	4.1	4.1	4.1	4.1	4.2	4.2
Other	1.0	0.9	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.2
OECD	10.8	10.5	10.3	10.3	10.1	10.0	9.8	9.8	9.8	9.4
Non-OECD	3.5	3.7	3.8	3.8	3.8	3.8	3.7	3.8	3.8	3.8
World	4.8	4.9	4.9	5.0	4.9	4.9	4.8	4.8	4.8	4.8

Note: CO₂ Emissions per capita is calculated with total CO₂ emissions.



Primary Energy
Intensity to GDP

Primary Energy Intensity to GDP (ktep/\$15ppp)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
North America	140	136	131	131	130	125	122	119	120	116
Canada	183	181	180	179	178	177	175	174	176	171
Mexico	93	94	93	92	87	83	81	77	75	74
United States	136	132	127	127	125	120	117	114	115	111
South and Central America	94	92	92	92	91	90	90	88	86	85
Argentina	96	92	94	94	97	97	99	95	96	97
Brazil	87	85	87	88	90	92	92	92	90	89
Chile	92	94	99	98	87	87	92	92	89	89
Colombia	59	55	53	63	60	58	60	56	55	55
Peru	63	65	65	60	61	60	60	59	57	n.d.
Trinidad & Tobago	446	446	432	425	435	414	390	398	412	n.d.
Venezuela	141	126	130	120	119	116	130	138	151	205
Europe	92	87	86	85	80	79	78	77	75	73
Belgium	123	113	107	112	104	102	107	104	98	100
Czech Republic	138	131	131	132	124	118	114	114	111	108
Finland	159	150	146	145	149	141	143	137	139	n.d.
France	102	97	97	97	92	93	90	88	86	83
Germany	91	83	83	84	80	79	77	76	73	71
Italy	76	73	72	70	66	68	67	67	65	64
Netherlands	101	92	93	92	85	85	85	83	80	76
Norway	103	92	93	96	93	92	87	89	86	82
Poland	115	110	105	103	96	94	95	95	92	85
Portugal	73	72	71	72	70	72	70	71	67	65
Romania	95	95	91	80	77	74	71	69	67	65
Spain	78	78	80	76	73	73	72	73	71	69
Sweden	119	113	115	111	106	94	101	99	96	91
Turkey	74	71	71	64	63	64	66	66	63	64
United Kingdom	82	75	76	74	67	66	64	62	61	59
EU	93	88	88	86	82	81	79	79	76	73
Former Soviet Union	220	216	212	201	197	195	198	198	201	200
Azerbaijan	75	81	87	83	84	83	85	86	85	n.d.
Kazakhstan	197	206	187	195	177	177	183	184	186	176
Russia	212	208	206	196	195	197	203	205	209	210
Ukraine	345	313	302	287	279	272	262	249	250	232
Uzbekistan	329	332	316	262	246	202	165	156	156	152
Middle East	130	123	131	128	133	132	125	126	128	128
Iran	143	142	160	163	167	170	154	159	174	179
Iraq	88	91	92	90	89	82	87	98	101	99
Kuwait	133	118	122	119	112	120	122	118	117	120
Qatar	121	123	149	153	162	157	147	144	153	n.d.
Saudi Arabia	139	121	129	121	130	130	121	123	116	117
United Arab Emirates	121	112	113	113	120	120	117	100	99	100
Africa	134	138	134	131	132	127	128	128	127	126
Algeria	81	82	87	88	92	93	89	91	95	99
Angola	71	71	73	71	89	77	76	76	77	n.d.
Egypt	82	85	85	82	82	78	81	84	81	77
Libya	102	227	101	103	180	153	141	110	n.d.	n.d.
Nigeria	148	153	148	142	137	132	138	144	149	148
South Africa	201	199	187	181	189	174	177	177	178	180
Asia-Pacific	143	140	136	132	128	122	117	114	111	112
Australia	133	131	124	122	118	115	113	110	108	113
China	186	183	175	168	160	151	140	135	132	128
India	119	119	118	113	111	104	98	95	92	89
Indonesia	94	86	85	82	82	79	77	77	78	77
Japan	103	95	92	90	87	84	83	82	81	79
Malaysia	116	114	110	119	114	104	103	94	94	94
New Zealand	125	121	124	122	125	121	115	113	107	104
South Korea	162	163	162	158	156	155	156	153	151	147
Taiwan	239	227	217	216	211	207	205	200	199	189
Thailand	122	121	121	126	124	121	120	115	113	111
OECD	113	109	107	106	103	100	99	97	96	93
Non-OECD	145	142	140	136	133	128	124	121	119	117
World	133	130	128	125	122	119	116	114	112	110

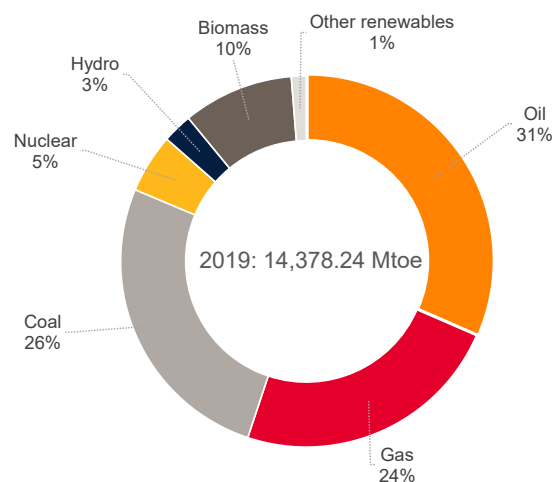


Regional
and country
data

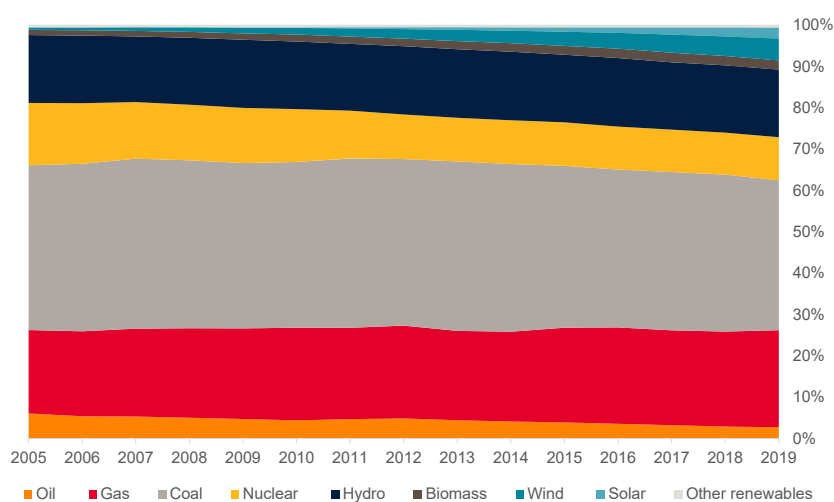
World (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	12,842.9	13,039.5	13,244.6	13,415.7	13,595.4	13,637.2	13,720.3	13,970.0	14,287.1	14,378.2	100.0
Oil	4,135.4	4,129.6	4,204.0	4,205.1	4,287.6	4,340.2	4,383.8	4,462.5	4,493.3	4,489.9	31.2
Gas	2,732.2	2,790.3	2,844.2	2,897.0	2,915.8	2,946.7	3,025.4	3,100.1	3,266.8	3,356.0	23.3
Coal	3,650.7	3,804.2	3,850.3	3,905.1	3,935.2	3,851.0	3,741.8	3,780.0	3,812.9	3,732.0	26.0
Nuclear	718.3	673.1	641.2	646.1	660.8	669.8	679.7	687.0	706.4	731.8	5.1
Hydro	296.4	302.6	316.6	328.0	334.4	335.4	348.6	350.9	363.4	368.7	2.6
Biomass	1,194.2	1,207.7	1,240.7	1,261.3	1,270.5	1,281.5	1,308.5	1,325.6	1,350.3	1,374.6	9.6
Other renewables	32.2	43.2	54.0	68.1	78.8	94.4	111.6	136.0	159.2	184.4	1.3
Electricity balance of trade*	83.5	88.9	93.5	104.9	112.5	118.1	121.0	127.8	134.8	140.9	1.0
Total final consumption, by source	8,945.4	9,064.8	9,181.4	9,349.2	9,447.1	9,543.1	9,657.3	9,842.0	10,069.5	10,149.9	100.0
Oil	3,589.4	3,568.0	3,610.4	3,671.3	3,730.5	3,822.8	3,883.7	3,980.4	4,032.5	4,052.1	39.9
Gas	1,295.9	1,309.9	1,315.5	1,360.9	1,363.6	1,355.6	1,384.3	1,440.9	1,522.6	1,553.2	15.3
Coal	1,247.1	1,304.3	1,317.0	1,326.1	1,329.7	1,310.6	1,265.8	1,230.5	1,228.0	1,216.4	12.0
Electricity	1,536.8	1,586.2	1,625.0	1,674.1	1,706.4	1,732.8	1,787.0	1,834.3	1,903.0	1,915.8	18.9
Heat	295.3	307.9	317.3	310.8	311.5	311.9	326.8	334.8	345.3	354.5	3.5
Biomass	980.8	988.4	996.2	1,006.1	1,005.5	1,009.3	1,009.6	1,021.2	1,038.1	1,057.9	10.4
Electricity generation, by source	1,856.7	1,917.8	1,960.8	2,019.3	2,057.3	2,096.8	2,156.6	2,211.8	2,291.9	2,314.5	100.0
Oil	81.1	90.0	94.8	88.8	84.8	81.2	76.3	70.9	66.2	62.8	2.7
Gas	416.7	423.1	441.1	436.9	446.8	480.9	502.8	507.5	526.9	543.6	23.5
Coal	744.9	786.7	790.0	828.2	834.5	821.3	824.1	847.9	870.4	839.9	36.3
Nuclear	237.0	222.1	211.6	213.2	218.1	221.0	224.3	226.7	233.1	241.5	10.4
Hydro	303.9	309.8	323.8	335.1	341.8	343.0	357.9	360.8	373.1	378.1	16.3
Biomass	31.8	33.8	36.4	39.2	42.4	44.7	49.1	51.2	51.9	51.9	2.2
Wind	29.3	37.5	45.0	55.6	61.7	72.1	82.4	96.9	108.5	121.6	5.3
Solar	2.9	5.7	8.9	12.5	17.1	22.4	29.2	39.1	50.7	62.8	2.7
Other renewables	9.0	9.2	9.2	9.6	10.1	10.3	10.4	10.7	11.2	12.3	0.5
Total final consumption, by sector	8,945.4	9,064.8	9,181.4	9,349.2	9,447.1	9,543.1	9,657.3	9,842.0	10,069.5	10,149.9	100.0
Industry	2,836.4	2,926.1	2,966.5	2,991.6	3,006.7	3,001.4	2,996.1	3,031.0	3,095.0	3,110.9	30.6
Transport	2,370.7	2,406.6	2,442.1	2,510.6	2,555.3	2,633.2	2,693.1	2,755.5	2,803.7	2,824.4	27.8
Residential/Commercial	2,728.2	2,721.9	2,727.6	2,799.1	2,800.2	2,815.8	2,858.5	2,909.9	3,004.4	3,044.4	30.0
Oil final consumption, by sector	3,589.4	3,568.0	3,610.4	3,671.3	3,730.5	3,822.8	3,883.7	3,980.4	4,032.5	4,052.1	100.0
Industry	308.5	284.9	288.4	287.9	284.1	294.8	297.8	302.7	300.7	301.8	7.4
Transport	2,263.3	2,289.4	2,315.7	2,376.5	2,414.2	2,485.3	2,539.4	2,597.1	2,633.3	2,649.1	65.4
Residential/Commercial	295.8	284.9	279.3	284.8	279.7	288.5	290.5	297.1	302.5	306.7	7.6
Natural gas final consumption, by sector	1,295.9	1,309.9	1,315.5	1,360.9	1,363.6	1,355.6	1,384.3	1,440.9	1,522.6	1,553.2	100.0
Industry	513.0	518.7	533.9	537.9	545.3	536.0	542.2	569.8	600.4	612.6	39.4
Transport	27.5	31.8	33.7	35.6	38.7	41.2	42.3	44.0	48.6	51.0	3.3
Residential/Commercial	603.1	594.5	578.5	617.1	609.7	606.0	618.9	632.3	671.4	681.4	43.9
Refined products consumption	3,567.5	3,553.3	3,595.4	3,654.2	3,713.7	3,804.2	3,867.5	3,965.9	4,018.8	4,038.8	100.0
Gasoline	974.3	962.4	981.3	1,012.9	1,023.7	1,058.4	1,083.4	1,095.1	1,110.4	1,124.7	27.8
Diesel	1,166.3	1,189.0	1,210.8	1,227.3	1,251.8	1,270.1	1,264.6	1,290.6	1,297.9	1,318.5	32.6
Heating Oil	292.9	282.9	264.8	255.7	251.5	248.0	252.1	260.8	258.2	236.7	5.9
Aviation Jet	251.2	257.7	260.6	268.0	277.1	292.6	306.1	324.2	338.6	341.3	8.5
LPG	240.8	233.0	237.7	251.9	259.7	269.1	278.3	286.1	296.5	299.3	7.4
Imports	4,208.0	4,277.3	4,304.1	4,299.8	4,263.8	4,451.7	4,621.1	4,799.5	4,850.4	4,791.6	100.0
Oil	3,383.8	3,406.7	3,443.3	3,427.0	3,418.3	3,574.0	3,708.9	3,814.9	3,836.0	3,783.6	79.0
Gas	824.2	870.6	860.8	872.8	845.6	877.7	912.3	984.6	1,014.5	1,008.1	21.0
Gasoline	190.1	197.6	202.3	206.0	207.2	221.8	237.9	244.3	244.8	239.4	5.0
Diesel	309.3	319.7	331.1	351.3	361.3	377.3	402.4	407.4	404.2	396.5	8.3
Heating Oil	241.0	254.9	249.1	250.0	238.6	243.4	236.9	223.3	213.7	182.7	3.8
Aviation Jet	68.8	67.7	67.0	71.9	70.6	77.4	85.9	90.7	91.8	89.6	1.9
LPG	78.9	85.0	86.5	92.1	100.1	109.4	124.9	129.3	136.6	140.0	2.9
Exports	4,129.0	4,238.3	4,293.8	4,329.8	4,289.3	4,521.9	4,710.8	4,870.3	4,940.7	4,878.6	100.0
Oil	3,313.1	3,393.8	3,442.1	3,444.0	3,432.9	3,624.2	3,779.4	3,850.9	3,898.8	3,815.3	78.2
Gas	815.9	844.5	851.8	885.9	856.4	897.7	931.4	1,019.4	1,041.9	1,063.3	21.8
Gasoline	176.3	183.1	195.7	190.4	197.7	224.7	239.4	243.4	241.4	240.5	4.9
Diesel	313.9	325.5	346.4	355.3	358.2	385.3	410.8	429.6	429.5	421.3	8.6
Heating Oil	288.6	294.6	283.7	299.8	291.7	302.8	286.2	272.5	253.6	223.7	4.6
Aviation Jet	75.2	76.5	80.1	87.1	84.5	90.3	92.2	97.2	108.4	109.2	2.2
LPG	76.5	84.1	83.5	81.9	104.6	108.6	123.6	128.0	133.2	120.6	2.5
CO₂ Emissions (Million tons CO₂)	29,918.0	30,699.4	31,184.1	31,748.2	31,811.3	31,758.9	31,703.6	32,099.2	32,805.0	32,741.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	309.6	305.4	300.4	295.7	286.2	276.4	267.1	260.8	257.5	250.0	-
Final energy intensity (toe/million \$15ppp)	84.5	82.5	80.7	79.6	77.5	75.7	74.1	72.7	71.9	70.5	-
Total energy intensity (toe/million \$15ppp)	132.9	129.7	127.6	124.9	122.3	118.7	115.6	113.5	112.1	109.8	-

*Heat is included

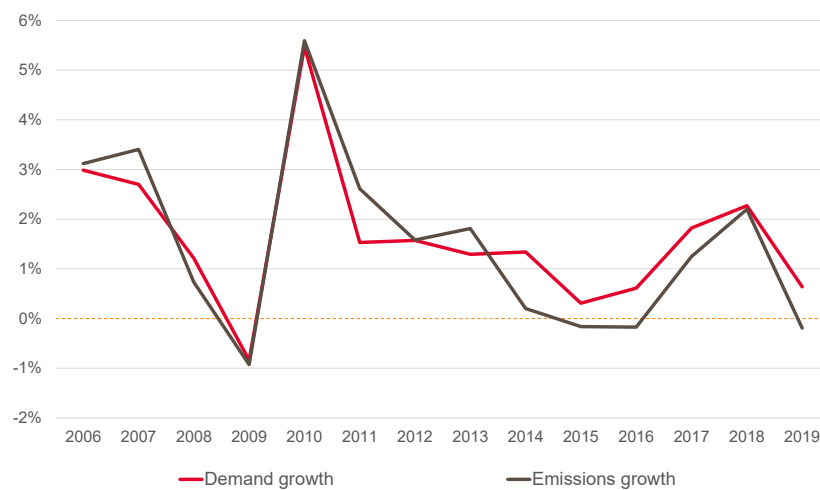
Primary energy demand mix



Electricity generation by source



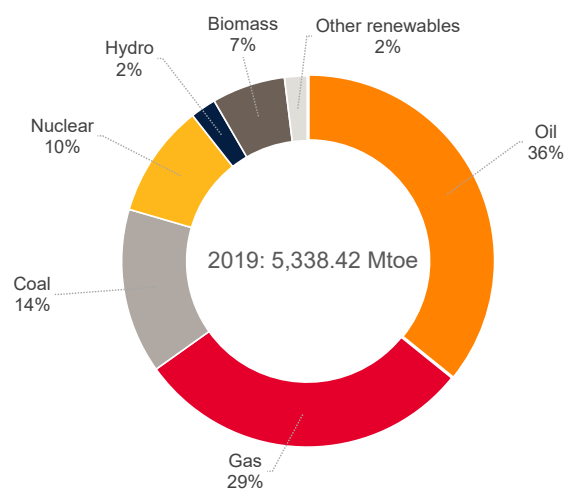
Primary energy demand and CO₂ emissions growth



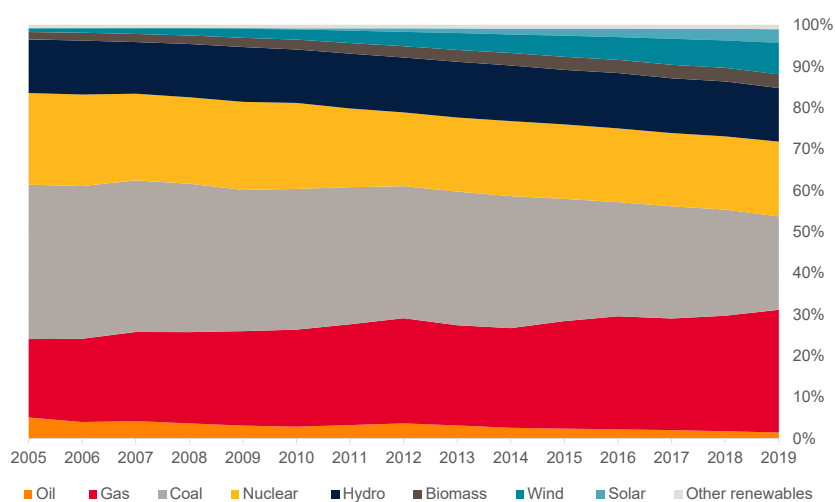
OECD (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	5,433.8	5,337.5	5,298.1	5,330.8	5,287.1	5,288.7	5,292.1	5,320.0	5,385.0	5,338.4	100.0
Oil	1,968.5	1,933.7	1,921.3	1,894.4	1,877.5	1,903.6	1,899.1	1,914.2	1,909.4	1,890.8	35.4
Gas	1,319.8	1,319.4	1,346.1	1,369.2	1,348.5	1,375.7	1,418.8	1,431.9	1,505.2	1,550.0	29.0
Coal	1,091.3	1,069.3	1,025.0	1,028.9	1,009.6	946.8	897.3	879.8	849.0	759.9	14.2
Nuclear	596.4	543.9	508.6	511.4	516.1	513.6	512.2	509.5	516.1	521.5	9.8
Hydro	116.5	119.6	119.7	121.7	120.7	118.9	121.3	120.1	122.5	118.0	2.2
Biomass	273.9	275.7	295.0	310.3	311.8	316.3	321.4	330.7	336.3	338.0	6.3
Other renewables	25.9	33.7	40.7	48.9	55.3	64.3	71.4	83.1	91.3	103.6	1.9
Electricity balance of trade*	41.5	42.3	41.7	45.9	47.8	49.5	50.5	50.6	55.2	56.7	1.1
Total final consumption, by source	3,736.0	3,653.6	3,629.5	3,684.1	3,651.1	3,674.3	3,707.0	3,746.8	3,797.9	3,774.3	100.0
Oil	1,772.3	1,713.5	1,689.3	1,694.8	1,689.3	1,719.7	1,736.0	1,749.3	1,760.3	1,753.3	46.5
Gas	707.1	690.6	687.3	724.8	710.8	702.6	710.9	728.2	755.1	753.1	20.0
Coal	181.2	180.2	176.0	173.8	171.4	168.1	161.2	162.2	159.3	159.0	4.2
Electricity	812.4	809.5	807.5	809.8	804.8	805.2	815.0	816.4	827.4	812.1	21.5
Heat	71.5	67.7	68.3	68.2	64.9	65.8	69.0	69.1	69.8	69.3	1.8
Biomass	191.5	192.2	201.2	212.8	209.8	212.9	214.9	221.7	225.9	227.4	6.0
Electricity generation, by source	945.0	941.7	940.5	941.1	936.8	940.4	947.0	949.4	962.2	950.1	100.0
Oil	26.8	30.6	34.2	29.6	24.1	22.4	21.1	19.2	16.8	13.7	1.4
Gas	222.2	229.7	239.4	228.3	225.9	244.7	258.9	256.3	269.0	282.2	29.7
Coal	321.7	312.3	300.7	304.4	299.4	278.4	261.7	258.0	247.3	214.6	22.6
Nuclear	196.8	179.5	167.8	168.8	170.3	169.5	169.0	168.2	170.3	172.1	18.1
Hydro	122.1	125.0	125.0	127.0	125.9	124.0	126.8	125.9	128.0	123.2	13.0
Biomass	22.8	24.0	25.8	26.9	28.5	29.6	30.4	30.9	31.6	31.5	3.3
Wind	23.1	28.3	32.7	38.5	42.0	47.9	52.0	59.8	64.0	72.1	7.6
Solar	2.8	5.3	8.0	10.4	13.3	16.4	19.4	23.4	27.3	31.6	3.3
Other renewables	6.8	6.9	6.9	7.2	7.4	7.5	7.6	7.7	7.9	9.1	1.0
Total final consumption, by sector	3,736.0	3,653.6	3,629.5	3,684.1	3,651.1	3,674.3	3,707.0	3,746.8	3,797.9	3,774.3	100.0
Industry	864.0	867.7	866.1	867.0	861.7	858.3	859.8	873.0	880.9	871.3	23.1
Transport	1,180.9	1,160.2	1,148.9	1,168.0	1,171.2	1,204.2	1,223.4	1,232.7	1,246.6	1,244.2	33.0
Residential/Commercial	1,247.9	1,193.0	1,175.9	1,218.7	1,177.7	1,176.1	1,183.3	1,186.0	1,215.9	1,206.9	32.0
Oil final consumption, by sector	1,772.3	1,713.5	1,689.3	1,694.8	1,689.3	1,719.7	1,736.0	1,749.3	1,760.3	1,753.3	100.0
Industry	100.2	92.8	88.7	84.5	79.5	81.6	82.8	82.1	81.3	79.8	4.6
Transport	1,130.9	1,105.7	1,088.0	1,104.5	1,106.4	1,137.4	1,153.5	1,160.7	1,172.9	1,170.0	66.7
Residential/Commercial	152.4	137.5	130.3	132.4	120.7	123.3	121.9	120.1	119.3	119.1	6.8
Natural gas final consumption, by sector	707.1	690.6	687.3	724.8	710.8	702.6	710.9	728.2	755.1	753.1	100.0
Industry	249.3	253.0	260.1	263.4	265.1	261.9	266.3	271.7	279.5	278.8	37.0
Transport	3.1	3.3	3.5	3.6	3.9	4.3	4.4	4.5	4.6	4.6	0.6
Residential/Commercial	416.8	396.3	384.7	418.7	402.1	396.3	396.4	402.4	422.9	421.9	56.0
Refined products consumption	1,765.4	1,708.1	1,684.1	1,689.3	1,683.8	1,713.0	1,730.6	1,742.4	1,753.8	1,747.2	100.0
Gasoline	626.5	598.5	589.7	592.1	591.3	602.5	611.2	607.5	611.0	609.7	34.9
Diesel	598.8	591.6	584.2	588.1	591.1	598.9	602.1	610.2	619.3	613.4	35.1
Heating Oil	36.5	31.9	27.6	21.4	18.7	20.3	19.0	18.1	17.7	17.7	1.0
Aviation Jet	68.5	68.0	68.2	71.0	73.0	76.3	78.9	82.0	83.6	85.0	4.9
LPG	117.4	103.5	102.6	111.0	107.6	108.8	107.8	105.3	106.9	105.8	6.1
Imports	2,748.0	2,733.5	2,706.8	2,637.1	2,555.9	2,658.9	2,734.3	2,809.9	2,793.2	2,722.3	100.0
Oil	2,105.2	2,076.3	2,058.1	1,987.2	1,935.7	2,024.3	2,073.4	2,101.2	2,081.9	2,016.3	74.1
Gas	642.7	657.2	648.7	649.9	620.2	634.6	660.9	708.8	711.4	706.0	25.9
Gasoline	93.1	92.5	91.3	84.8	82.1	92.1	99.7	97.8	100.8	105.6	3.9
Diesel	156.3	155.8	159.8	169.6	168.1	182.2	194.4	195.6	196.4	190.8	7.0
Heating Oil	89.9	94.8	92.6	91.6	87.4	86.8	84.2	67.0	66.5	54.4	2.0
Aviation Jet	41.1	40.0	40.4	44.1	44.3	49.5	54.4	57.0	59.8	63.5	2.3
LPG	47.0	50.2	50.3	51.4	52.3	54.4	59.7	59.4	62.1	61.9	2.3
Exports	1,155.6	1,188.2	1,227.9	1,252.9	1,285.4	1,379.7	1,447.0	1,578.3	1,655.3	1,692.3	100.0
Oil	852.9	880.7	911.1	935.2	976.9	1,049.4	1,097.1	1,171.1	1,235.1	1,259.1	74.4
Gas	302.8	307.5	316.8	317.7	308.5	330.2	349.9	407.2	420.2	433.2	25.6
Gasoline	100.8	107.6	119.1	114.2	118.0	134.7	140.9	148.6	153.8	152.4	9.0
Diesel	157.0	169.1	188.1	196.3	191.1	201.8	206.9	220.3	204.6	206.2	12.2
Heating Oil	103.2	107.1	102.8	105.0	107.3	113.4	108.9	92.3	88.3	71.3	4.2
Aviation Jet	32.5	34.2	38.1	39.7	37.7	40.4	42.6	45.3	53.4	51.6	3.0
LPG	9.2	9.5	10.2	10.3	26.9	35.5	42.3	47.1	50.2	57.7	3.4
CO₂ Emissions (Million tons CO₂)	12,615.7	12,391.5	12,251.6	12,269.6	12,076.4	11,983.5	11,914.3	11,891.3	11,960.9	11,633.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	263.2	253.4	247.2	243.8	234.8	227.1	221.7	216.0	212.4	203.2	-
Final energy intensity (toe/million \$15ppp)	70.2	67.3	65.8	66.1	63.8	62.7	62.1	61.1	60.7	59.3	-
Total energy intensity (toe/million \$15ppp)	113.3	109.1	106.9	105.9	102.8	100.2	98.5	96.6	95.6	93.2	-

*Heat is included

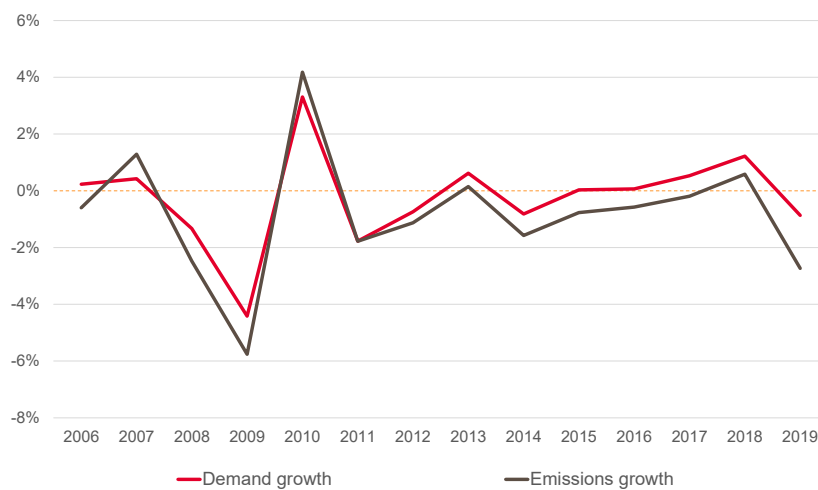
Primary energy demand mix



Electricity generation by source



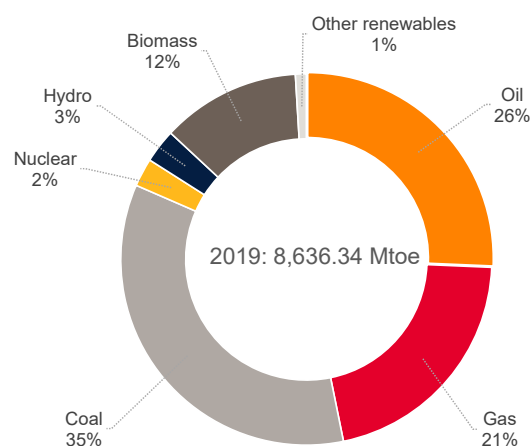
Primary energy demand and CO₂ emissions growth



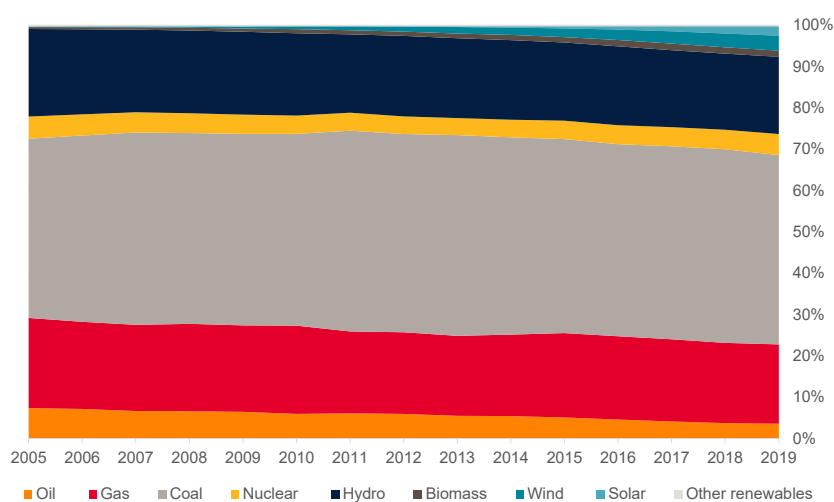
Non-OECD (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	7,051.3	7,338.9	7,597.0	7,733.2	7,944.4	7,967.2	8,033.7	8,239.4	8,483.2	8,636.3	100.0
Oil	1,809.1	1,832.8	1,933.2	1,959.0	2,046.1	2,055.3	2,090.1	2,137.8	2,165.1	2,195.6	25.4
Gas	1,412.4	1,470.9	1,498.0	1,527.8	1,567.3	1,571.0	1,606.6	1,668.2	1,761.5	1,806.0	20.9
Coal	2,559.4	2,734.9	2,825.4	2,876.2	2,925.6	2,904.2	2,844.5	2,900.2	2,963.9	2,972.1	34.4
Nuclear	121.9	129.2	132.6	134.7	144.7	156.2	167.5	177.4	190.3	210.3	2.4
Hydro	179.9	183.0	197.0	206.3	213.7	216.5	227.2	230.8	240.9	250.7	2.9
Biomass	920.3	932.0	945.7	951.1	958.7	965.3	987.1	994.9	1,014.0	1,036.6	12.0
Other renewables	6.3	9.5	13.3	19.2	23.5	30.1	40.1	52.9	67.9	80.8	0.9
Electricity balance of trade*	42.0	46.5	51.8	59.0	64.7	68.6	70.5	77.1	79.6	84.2	1.0
Total final consumption, by source	4,851.6	5,048.0	5,202.4	5,313.4	5,432.1	5,487.5	5,555.7	5,684.7	5,852.8	5,972.1	100.0
Oil	1,459.3	1,491.4	1,571.7	1,624.9	1,677.2	1,721.8	1,753.2	1,820.6	1,853.4	1,895.2	31.7
Gas	588.8	619.3	628.2	636.0	652.7	653.0	673.4	712.7	767.5	800.1	13.4
Coal	1,065.9	1,124.1	1,141.0	1,152.3	1,158.3	1,142.5	1,104.6	1,068.3	1,068.6	1,057.4	17.7
Electricity	724.5	776.7	817.5	864.3	901.6	927.6	972.0	1,017.9	1,075.6	1,103.8	18.5
Heat	223.8	240.2	249.0	242.6	246.6	246.2	257.7	265.7	275.5	285.2	4.8
Biomass	789.3	796.2	795.0	793.2	795.7	796.4	794.8	799.5	812.3	830.5	13.9
Electricity generation, by source	911.6	976.1	1,020.3	1,078.2	1,120.5	1,156.4	1,209.6	1,262.4	1,329.6	1,364.4	100.0
Oil	54.2	59.3	60.6	59.2	60.7	58.8	55.3	51.7	49.5	49.2	3.6
Gas	194.6	193.4	201.7	208.6	220.9	236.2	243.9	251.2	257.9	261.4	19.2
Coal	423.2	474.3	489.4	523.8	535.1	542.8	562.4	589.9	623.1	625.3	45.8
Nuclear	40.2	42.6	43.7	44.4	47.8	51.5	55.3	58.5	62.8	69.4	5.1
Hydro	181.8	184.8	198.7	208.1	215.9	219.0	231.1	234.9	245.0	254.9	18.7
Biomass	9.0	9.8	10.6	12.3	13.9	15.0	18.7	20.3	20.2	20.4	1.5
Wind	6.2	9.1	12.3	17.1	19.8	24.2	30.3	37.2	44.5	49.5	3.6
Solar	0.1	0.4	1.0	2.1	3.8	5.9	9.8	15.7	23.4	31.3	2.3
Other renewables	2.2	2.2	2.3	2.4	2.7	2.8	2.8	3.0	3.1	3.1	0.2
Total final consumption, by sector	4,851.6	5,048.0	5,202.4	5,313.4	5,432.1	5,487.5	5,555.7	5,684.7	5,852.8	5,972.1	100.0
Industry	1,972.3	2,058.4	2,100.5	2,124.6	2,145.1	2,143.1	2,136.3	2,158.0	2,214.1	2,239.6	37.5
Transport	832.0	883.3	943.7	990.9	1,020.2	1,047.8	1,075.1	1,112.3	1,138.2	1,176.8	19.7
Residential/Commercial	1,480.3	1,528.9	1,551.7	1,580.4	1,622.4	1,639.8	1,675.2	1,724.0	1,788.5	1,837.4	30.8
Oil final consumption, by sector	1,459.3	1,491.4	1,571.7	1,624.9	1,677.2	1,721.8	1,753.2	1,820.6	1,853.4	1,895.2	100.0
Industry	208.3	192.1	199.7	203.4	204.6	213.2	215.0	220.6	219.4	222.0	11.7
Transport	774.5	820.5	878.2	920.2	943.8	966.6	991.3	1,025.9	1,041.6	1,075.5	56.8
Residential/Commercial	143.4	147.3	148.9	152.4	159.0	165.2	168.6	177.0	183.3	187.6	9.9
Natural gas final consumption, by sector	588.8	619.3	628.2	636.0	652.7	653.0	673.4	712.7	767.5	800.1	100.0
Industry	263.6	265.7	273.8	274.5	280.2	274.2	276.0	298.0	320.9	333.9	41.7
Transport	24.4	28.6	30.2	32.0	34.8	37.0	37.9	39.5	44.0	46.5	5.8
Residential/Commercial	186.3	198.2	193.8	198.4	207.5	209.7	222.5	229.9	248.5	259.4	32.4
Refined products consumption	1,444.4	1,482.1	1,561.8	1,613.3	1,665.9	1,709.9	1,742.4	1,812.9	1,846.1	1,888.1	100.0
Gasoline	347.8	363.8	391.6	420.8	432.3	455.9	472.3	487.6	499.4	514.9	27.3
Diesel	538.9	570.2	605.7	617.9	628.7	628.7	622.4	639.3	637.9	662.4	35.1
Heating Oil	79.7	72.8	67.4	65.4	67.6	65.3	62.8	67.7	65.5	61.1	3.2
Aviation Jet	30.6	32.3	33.9	35.8	37.6	40.4	43.4	48.1	52.2	54.1	2.9
LPG	123.4	129.5	135.1	140.9	152.1	160.3	170.5	180.8	189.6	193.5	10.2
Imports	1,460.0	1,543.8	1,597.3	1,662.7	1,708.0	1,792.8	1,886.8	1,989.5	2,057.2	2,069.3	100.0
Oil	1,278.6	1,330.4	1,385.2	1,439.8	1,482.6	1,549.7	1,635.5	1,713.7	1,754.1	1,767.3	85.4
Gas	181.4	213.4	212.1	222.9	225.4	243.1	251.4	275.8	303.1	302.0	14.6
Gasoline	97.0	105.1	111.1	121.2	125.1	129.7	138.2	146.5	144.0	133.8	6.5
Diesel	153.0	163.9	171.4	181.7	193.2	195.1	208.1	211.9	207.8	205.7	9.9
Heating Oil	151.1	160.1	156.5	158.4	151.2	156.5	152.6	156.3	147.2	128.3	6.2
Aviation Jet	27.7	27.7	26.6	27.8	26.3	27.9	31.5	33.7	32.0	26.0	1.3
LPG	31.9	34.8	36.2	40.7	47.8	55.0	65.2	69.9	74.5	78.1	3.8
Exports	2,973.4	3,050.1	3,066.0	3,077.0	3,003.9	3,142.2	3,263.8	3,292.0	3,285.4	3,186.3	100.0
Oil	2,460.3	2,513.1	2,531.0	2,508.8	2,456.0	2,574.8	2,682.2	2,679.9	2,663.7	2,556.2	80.2
Gas	513.1	537.0	535.0	568.2	547.9	567.4	581.6	612.1	621.7	630.2	19.8
Gasoline	75.6	75.5	76.6	76.2	79.7	90.0	98.6	94.8	87.6	88.1	2.8
Diesel	156.8	156.4	158.3	159.0	167.1	183.5	203.9	209.3	224.9	215.1	6.7
Heating Oil	185.4	187.5	180.9	194.8	184.5	189.4	177.4	180.2	165.3	152.4	4.8
Aviation Jet	42.7	42.3	42.0	47.5	46.8	49.9	49.6	51.9	55.0	57.6	1.8
LPG	67.4	74.6	73.3	71.6	77.7	73.1	81.3	80.8	83.0	62.8	2.0
CO₂ Emissions (Million tons CO₂)	17,302.4	18,307.9	18,932.5	19,478.7	19,734.8	19,775.4	19,789.2	20,207.9	20,844.2	21,107.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	355.3	354.8	348.9	341.5	330.4	318.2	304.7	297.0	293.2	286.3	-
Final energy intensity (toe/million \$15ppp)	91.3	89.8	87.9	85.4	83.2	80.6	78.0	76.1	74.9	73.8	-
Total energy intensity (toe/million \$15ppp)	144.8	142.2	140.0	135.6	133.0	128.2	123.7	121.1	119.3	117.1	-

*Heat is included

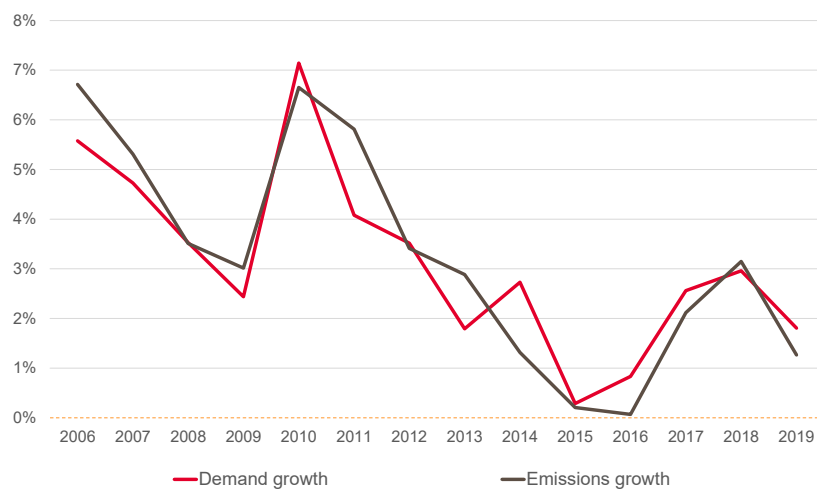
Primary energy demand mix



Electricity generation by source



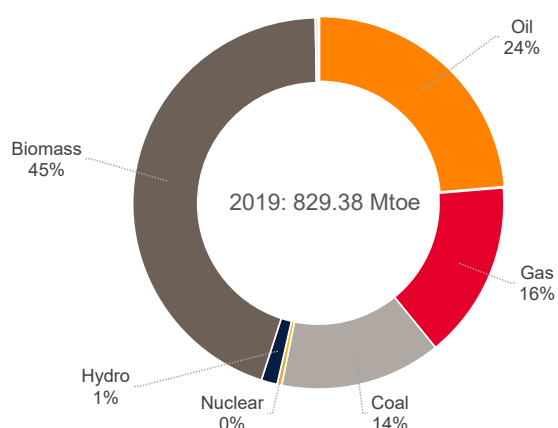
Primary energy demand and CO₂ emissions growth



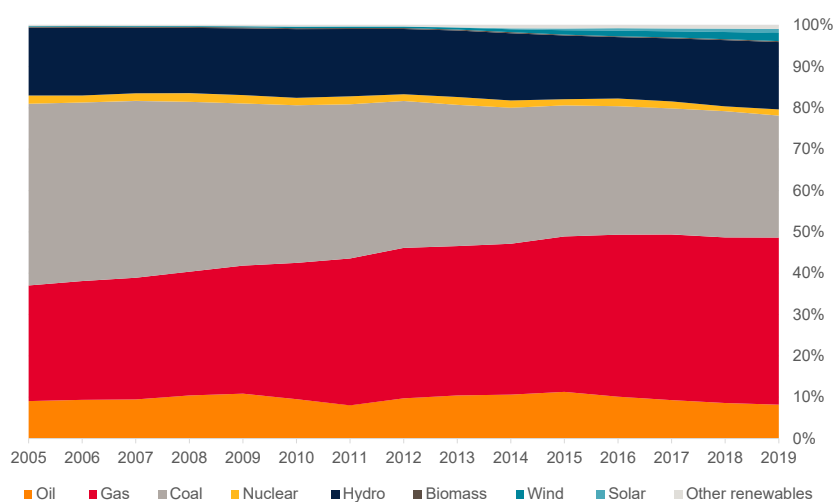
Africa (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	664.1	691.3	706.6	717.5	753.8	748.2	765.6	791.5	814.3	829.4	100.0
Oil	159.3	169.4	165.2	170.5	190.9	180.6	182.5	191.9	194.5	194.9	23.5
Gas	89.5	96.8	101.7	101.3	103.0	107.1	111.6	119.3	125.7	127.6	15.4
Coal	107.5	105.8	104.8	103.7	111.8	105.0	108.2	109.2	113.1	115.6	13.9
Nuclear	3.2	3.5	3.1	3.7	3.6	3.2	3.9	3.7	2.6	3.3	0.4
Hydro	9.4	9.5	9.6	10.1	10.6	10.3	10.0	10.5	11.3	11.5	1.4
Biomass	293.2	304.0	319.6	325.1	328.9	336.2	343.5	350.2	359.8	368.9	44.5
Other renewables	0.2	0.2	0.3	0.4	0.6	1.0	1.3	1.5	1.9	2.2	0.3
Electricity balance of trade*	1.9	1.9	2.3	2.8	4.4	4.8	4.5	5.2	5.4	5.3	0.6
Total final consumption, by source	468.0	479.9	496.0	516.4	526.8	534.9	542.9	560.8	578.1	582.8	100.0
Oil	135.7	136.3	143.2	154.2	159.1	159.0	162.8	165.8	167.9	163.8	28.1
Gas	28.7	32.3	32.8	33.4	31.4	34.0	35.5	37.4	41.6	42.4	7.3
Coal	17.3	15.4	18.0	19.7	20.8	18.5	18.3	21.3	22.8	23.7	4.1
Electricity	46.3	48.4	49.9	50.7	52.5	54.0	54.6	56.3	57.6	57.5	9.9
Heat	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.0
Biomass	239.9	247.4	252.0	258.3	262.7	269.2	271.6	279.8	287.9	295.2	50.6
Electricity generation, by source	58.0	60.1	62.5	64.4	66.9	69.0	69.7	71.5	73.4	73.8	100.0
Oil	5.5	4.8	6.1	6.7	7.1	7.8	7.0	6.6	6.3	6.0	8.2
Gas	19.1	21.3	22.8	23.3	24.4	26.0	27.3	28.7	29.4	29.9	40.5
Coal	22.1	22.4	22.2	22.0	22.0	21.9	21.7	21.8	22.4	21.8	29.5
Nuclear	1.0	1.2	1.0	1.2	1.2	1.1	1.3	1.2	0.9	1.1	1.5
Hydro	9.7	9.8	9.9	10.4	10.9	10.6	10.3	10.9	11.8	12.0	16.3
Biomass	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Wind	0.2	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.4	2.0
Solar	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.6	0.7	1.0
Other renewables	0.2	0.2	0.2	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.9
Total final consumption, by sector	468.0	479.9	496.0	516.4	526.8	534.9	542.9	560.8	578.1	582.8	100.0
Industry	84.1	86.9	84.8	87.4	81.5	83.7	84.3	87.4	90.1	87.9	15.1
Transport	86.3	88.1	94.5	105.4	109.8	111.2	115.8	117.3	119.3	119.6	20.5
Residential/Commercial	268.8	277.4	287.7	296.7	308.9	312.9	313.8	326.2	337.0	343.8	59.0
Oil final consumption, by sector	135.7	136.3	143.2	154.2	159.1	159.0	162.8	165.8	167.9	163.8	100.0
Industry	16.6	16.5	15.4	17.0	17.9	17.4	17.5	18.1	18.1	14.9	9.1
Transport	85.6	87.3	93.6	104.6	109.0	110.4	115.0	116.5	118.4	118.8	72.5
Residential/Commercial	17.8	17.6	18.1	18.7	18.5	18.1	16.7	16.7	16.9	16.1	9.9
Natural gas final consumption, by sector	28.7	32.3	32.8	33.4	31.4	34.0	35.5	37.4	41.6	42.4	100.0
Industry	15.2	18.5	18.0	17.7	15.5	16.1	16.1	17.2	17.9	18.1	42.6
Transport	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.8
Residential/Commercial	4.9	5.6	6.6	7.5	8.1	8.9	9.3	10.0	11.9	12.3	28.9
Refined products consumption	135.7	136.3	143.2	154.2	159.1	159.0	162.8	165.8	167.9	163.8	100.0
Gasoline	38.5	39.7	42.7	48.6	50.4	51.8	54.5	54.6	56.4	57.2	35.0
Diesel	57.8	59.9	62.9	69.0	71.3	72.0	74.2	75.9	75.7	75.6	46.1
Heating Oil	8.4	7.6	6.6	6.8	7.3	6.1	5.9	6.5	6.7	2.9	1.7
Aviation Jet	2.0	2.1	1.9	2.0	2.0	2.0	1.9	2.3	2.3	2.3	1.4
LPG	12.5	12.5	13.0	12.8	12.8	13.1	13.5	13.8	13.8	13.5	8.2
Imports	124.6	135.3	138.8	146.7	159.8	161.1	168.0	173.2	175.7	165.3	100.0
Oil	119.1	129.2	131.9	140.0	152.6	148.1	152.7	158.7	164.6	156.4	94.6
Gas	5.5	6.1	6.9	6.8	7.2	13.0	15.3	14.5	11.1	8.9	5.4
Gasoline	25.1	30.2	28.4	30.8	33.0	32.5	37.2	42.0	43.9	39.8	24.1
Diesel	30.4	35.4	38.7	43.8	47.5	52.6	52.5	54.2	52.7	52.1	31.6
Heating Oil	6.2	5.7	6.3	8.1	9.2	8.9	7.4	7.5	6.5	4.8	2.9
Aviation Jet	3.8	4.0	4.2	3.9	3.9	4.5	5.2	5.7	5.9	3.2	2.0
LPG	6.1	6.0	6.3	6.3	6.9	7.3	7.8	8.4	8.6	8.3	5.0
Exports	542.9	452.9	498.2	451.1	422.2	427.7	407.3	431.3	440.1	439.2	100.0
Oil	452.6	374.5	416.9	380.2	351.9	356.3	329.1	345.2	354.9	357.1	81.3
Gas	90.3	78.4	81.3	70.9	70.4	71.3	78.1	86.1	85.2	82.1	18.7
Gasoline	1.4	1.2	1.5	1.8	1.8	1.9	2.4	2.0	2.1	2.1	0.5
Diesel	1.7	1.5	1.8	2.4	2.8	2.8	3.3	3.1	3.0	2.9	0.7
Heating Oil	10.8	9.1	8.5	10.7	9.5	9.7	10.4	9.7	8.9	7.7	1.8
Aviation Jet	3.5	2.6	3.3	4.2	3.7	4.4	2.9	3.5	3.8	3.4	0.8
LPG	8.4	8.4	7.5	7.1	9.3	9.6	9.5	9.3	9.0	9.3	2.1
CO₂ Emissions (Million tons CO₂)	1,040.1	1,038.2	1,096.5	1,142.1	1,187.6	1,178.8	1,192.5	1,212.6	1,249.9	1,256.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	209.7	206.6	207.2	207.7	208.5	200.5	198.8	195.6	195.0	190.2	-
Final energy intensity (toe/million \$15ppp)	90.6	92.2	90.4	90.9	89.6	88.2	87.5	87.6	87.1	85.3	-
Total energy intensity (toe/million \$15ppp)	133.9	137.6	133.5	130.5	132.4	127.3	127.6	127.7	127.0	125.5	-

*Heat is included

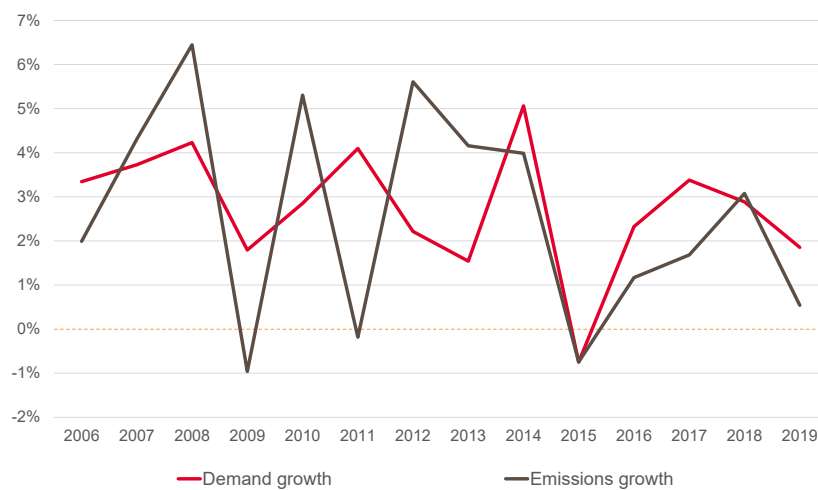
Primary energy demand mix



Electricity generation by source



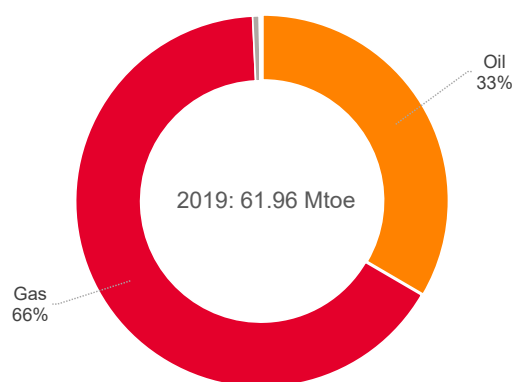
Primary energy demand and CO₂ emissions growth



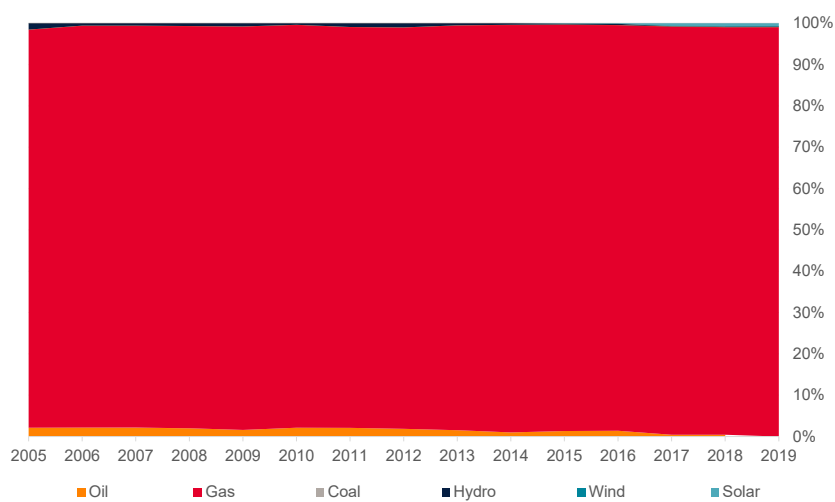
Algeria (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	40.1	41.8	46.0	47.6	51.8	54.3	53.7	55.5	59.3	62.0	100.0
Oil	16.4	16.7	17.6	18.7	19.3	19.7	19.1	19.4	19.9	20.7	33.4
Gas	23.3	24.8	28.0	28.6	32.3	34.4	34.7	35.9	39.0	40.8	65.9
Coal	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.2	0.4	0.4	0.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electricity balance of trade*	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	26.0	27.5	30.7	32.3	34.6	36.9	37.1	37.7	41.8	43.2	100.0
Oil	14.3	15.0	16.5	17.4	18.1	18.4	17.8	17.7	18.1	18.6	43.0
Gas	8.5	9.1	10.5	11.0	12.5	14.1	14.8	15.0	18.4	19.1	44.3
Coal	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.3	0.3	0.7
Electricity	2.9	3.1	3.5	3.7	3.9	4.3	4.5	4.8	4.9	5.2	12.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	4.1	4.8	5.3	5.6	6.1	6.5	6.7	7.2	7.3	7.7	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4
Gas	4.0	4.7	5.2	5.5	6.0	6.4	6.6	7.1	7.2	7.6	98.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.8
Other renewables	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	26.0	27.5	30.7	32.3	34.6	36.9	37.1	37.7	41.8	43.2	100.0
Industry	5.3	5.4	5.3	5.4	5.5	5.9	6.0	6.6	7.0	7.3	16.9
Transport	10.1	10.9	12.3	13.0	14.1	15.0	14.5	14.3	14.6	14.9	34.5
Residential/Commercial	7.7	8.5	9.5	10.7	10.5	11.6	11.8	12.6	14.6	15.2	35.2
Oil final consumption, by sector	14.3	15.0	16.5	17.4	18.1	18.4	17.8	17.7	18.1	18.6	100.0
Industry	0.9	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	3.4
Transport	10.1	10.9	12.3	12.9	14.0	14.9	14.4	14.3	14.5	14.8	79.8
Residential/Commercial	2.3	2.4	2.4	2.6	1.9	2.0	1.9	2.1	2.3	2.4	12.8
Natural gas final consumption, by sector	8.5	9.1	10.5	11.0	12.5	14.1	14.8	15.0	18.4	19.1	100.0
Industry	3.0	3.0	3.0	3.1	3.2	3.4	3.6	3.9	4.3	4.5	23.5
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	3.7	4.2	5.1	5.8	6.2	7.0	7.2	7.7	9.3	9.7	50.6
Refined products consumption	14.3	15.0	16.5	17.4	18.1	18.4	17.8	17.7	18.1	18.6	100.0
Gasoline	2.9	3.2	3.7	4.1	4.4	4.7	4.6	4.4	4.2	4.2	22.9
Diesel	8.2	8.8	9.3	9.8	9.9	10.5	10.3	10.2	10.5	10.8	58.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.4
LPG	2.3	2.4	2.5	2.4	2.2	2.2	2.2	2.3	2.6	2.6	14.2
Imports	1.3	2.4	4.9	5.5	3.5	4.4	3.9	3.8	1.0	2.3	100.0
Oil	1.3	2.4	4.9	5.5	3.5	4.4	3.9	3.8	1.0	2.3	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.4	1.3	1.7	1.1	1.7	1.7	1.7	0.1	0.7	28.7
Diesel	0.4	1.3	2.9	2.8	1.1	1.8	1.5	1.5	0.3	0.7	29.0
Heating Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2	7.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	111.0	105.9	102.3	94.9	93.3	93.3	102.8	100.4	93.5	85.1	100.0
Oil	62.4	61.1	57.8	54.6	55.4	56.3	56.9	54.5	49.8	48.8	57.3
Gas	48.6	44.8	44.5	40.3	37.9	37.0	45.9	45.9	43.7	36.3	42.7
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	5.4	5.5	4.9	5.1	6.2	6.4	6.7	6.1	5.6	4.9	5.8
Aviation Jet	1.0	0.8	0.7	1.2	1.6	1.1	1.2	1.2	1.0	0.9	1.0
LPG	7.0	7.1	6.5	6.3	8.5	8.9	8.6	8.2	7.8	8.0	9.4
CO₂ Emissions (Million tons CO₂)	97.5	104.7	115.2	118.2	127.4	135.4	133.2	134.6	143.5	146.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	196.3	205.0	218.1	217.8	226.2	231.7	220.6	219.5	230.7	234.2	-
Final energy intensity (toe/million \$15ppp)	48.0	50.1	53.0	54.8	55.0	56.8	54.8	56.2	59.7	61.2	-
Total energy intensity (toe/million \$15ppp)	80.7	81.9	87.1	87.7	91.9	92.9	89.0	90.5	95.3	98.9	-

*Heat is included

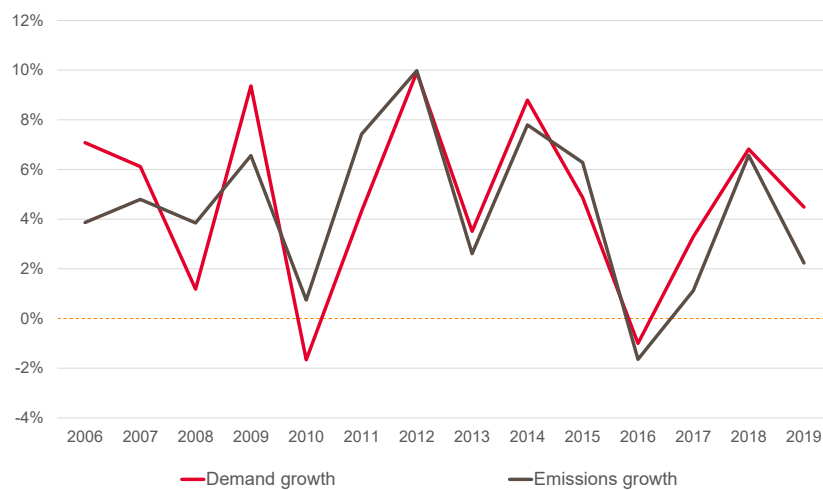
Primary energy demand mix



Electricity generation by source



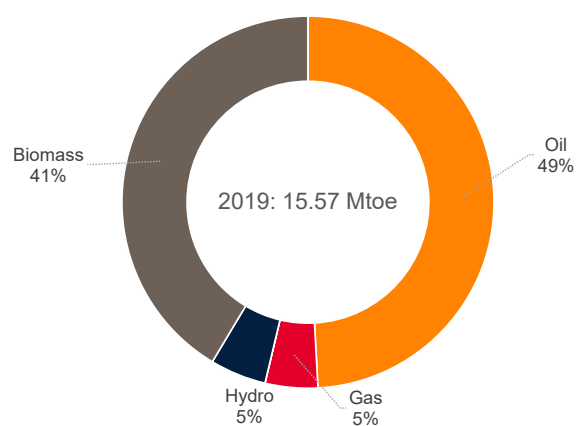
Primary energy demand and CO₂ emissions growth



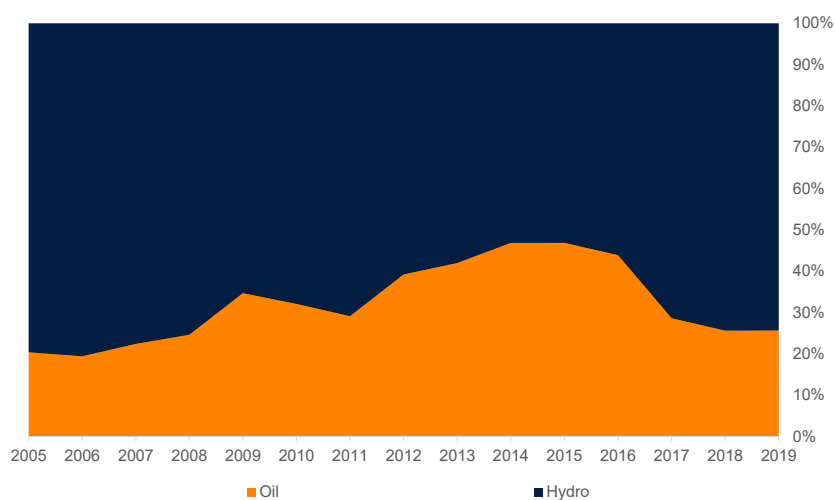
Angola (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	11.2	11.6	13.1	13.2	17.4	15.3	14.7	14.7	15.4	15.6	100.0
Oil	4.7	4.9	6.3	6.5	10.7	8.1	7.4	7.1	7.6	7.6	49.0
Gas	0.6	0.6	0.6	0.3	0.3	0.6	0.7	0.7	0.7	0.7	4.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.7	0.8	0.8	4.8
Biomass	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	41.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by source	9.1	9.6	9.8	10.4	10.5	10.7	10.7	9.7	9.8	10.0	100.0
Oil	3.8	4.2	4.3	5.0	5.0	4.7	4.6	3.8	3.8	3.9	38.8
Gas	0.6	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.3	0.3	3.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	8.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	4.3	4.3	4.4	4.5	4.6	4.6	4.7	4.8	4.8	4.9	49.1
Electricity generation, by source	0.5	0.5	0.5	0.7	0.8	0.8	0.9	0.9	1.0	1.0	100.0
Oil	0.2	0.1	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3	25.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.7	0.8	0.8	74.4
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	9.1	9.6	9.8	10.4	10.5	10.7	10.7	9.7	9.8	10.0	100.0
Industry	1.1	1.2	1.1	0.9	0.9	1.2	1.3	0.9	0.9	0.9	9.4
Transport	2.2	2.5	2.3	2.6	2.7	2.7	2.7	2.3	2.4	2.4	24.1
Residential/Commercial	5.6	5.8	6.1	6.6	6.6	6.5	6.5	6.3	6.4	6.4	64.6
Oil final consumption, by sector	3.8	4.2	4.3	5.0	5.0	4.7	4.6	3.8	3.8	3.9	100.0
Industry	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	5.0
Transport	2.2	2.5	2.3	2.6	2.7	2.7	2.7	2.3	2.4	2.4	62.1
Residential/Commercial	1.2	1.3	1.4	1.8	1.7	1.5	1.4	1.1	1.1	1.1	28.0
Natural gas final consumption, by sector	0.6	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.3	0.3	100.0
Industry	0.6	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.3	0.3	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	3.8	4.2	4.3	5.0	5.0	4.7	4.6	3.8	3.8	3.9	100.0
Gasoline	1.0	1.1	1.1	1.0	1.1	1.0	0.9	0.7	0.7	0.7	18.2
Diesel	2.2	2.4	2.5	3.2	3.2	3.1	3.0	2.4	2.4	2.4	62.7
Heating Oil	0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.1	0.1	0.1	2.2
Aviation Jet	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.9
LPG	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	10.5
Imports	3.5	3.7	4.8	4.9	5.8	5.4	5.5	5.2	3.9	3.6	100.0
Oil	3.5	3.7	4.8	4.9	5.8	5.4	5.5	5.2	3.9	3.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.9	1.0	1.4	1.1	1.5	1.3	1.1	1.1	1.2	1.1	30.8
Diesel	2.1	2.3	3.0	3.3	3.7	3.6	3.6	3.0	2.0	1.8	50.5
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.3	0.3	0.1	0.1	0.1	0.1	0.4	0.4	0.1	0.1	3.8
LPG	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.4	0.4	0.4	9.8
Exports	88.1	79.8	85.6	86.4	83.2	88.3	85.3	81.5	74.2	69.7	100.0
Oil	88.1	79.8	85.6	86.0	82.9	88.3	84.6	77.5	69.8	64.9	93.1
Gas	0.0	0.0	0.0	0.4	0.4	0.0	0.7	4.1	4.4	4.8	6.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.1	0.2	0.2	0.4	0.4	0.6	0.6	0.6	0.4	0.3	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.5	0.5	0.1	0.1	0.2	0.1	0.0	0.2	0.4	0.3	0.5
CO₂ Emissions (Million tons CO₂)	15.2	16.2	16.6	19.4	21.0	21.7	21.6	19.0	18.9	19.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	92.9	95.7	90.0	100.4	103.8	105.9	108.3	95.5	97.1	102.8	-
Final energy intensity (toe/million \$15ppp)	54.6	55.6	51.6	52.3	50.5	51.2	52.5	47.7	49.5	50.7	-
Total energy intensity (toe/million \$15ppp)	68.4	68.5	71.0	68.1	85.8	74.7	73.9	73.8	79.0	80.7	-

*Heat is included

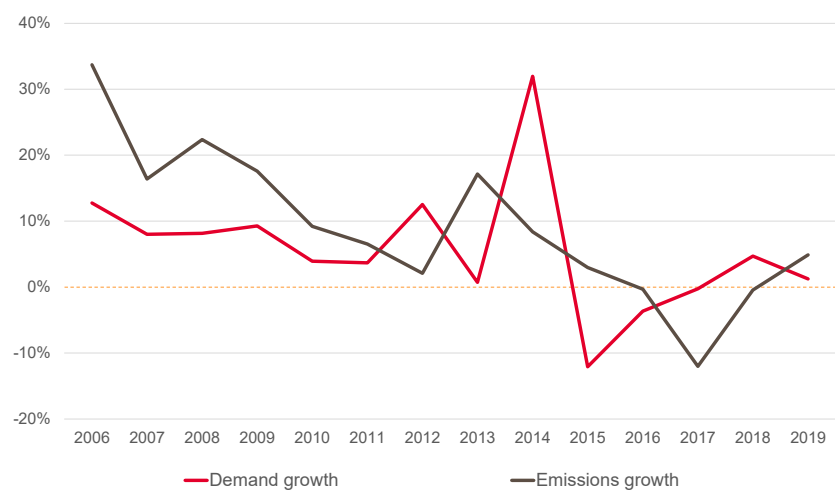
Primary energy demand mix



Electricity generation by source

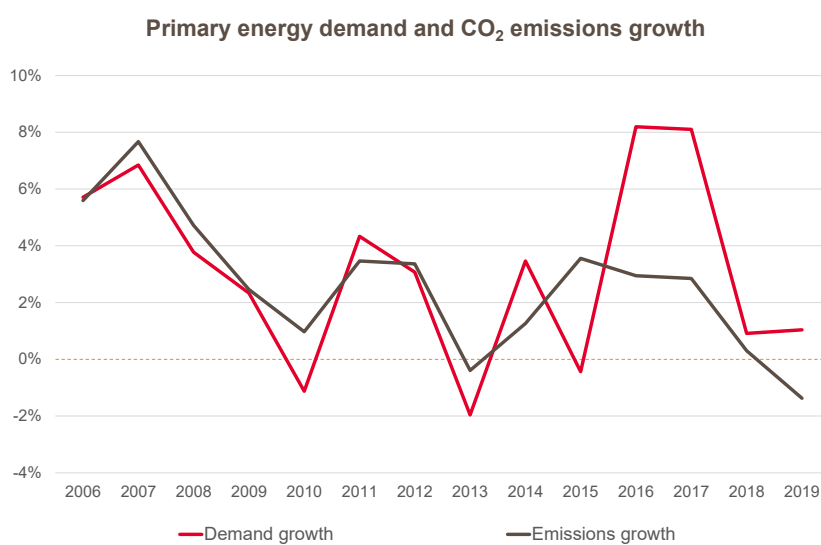
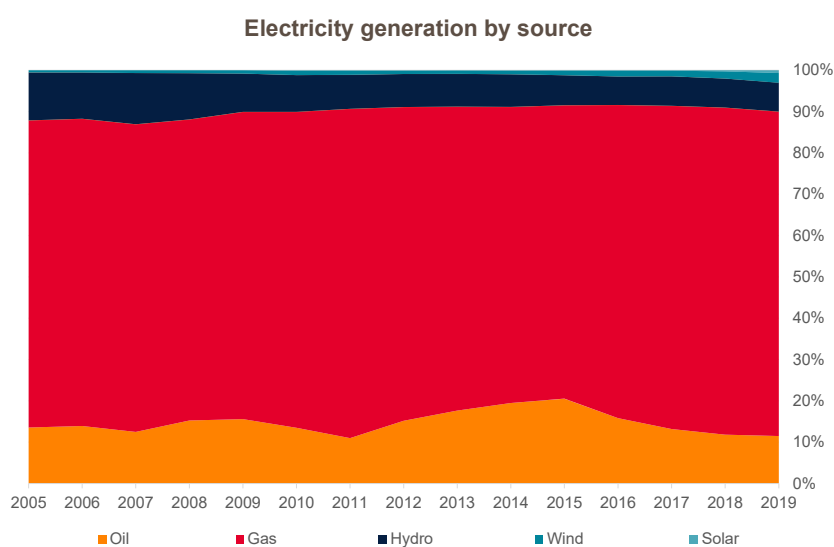
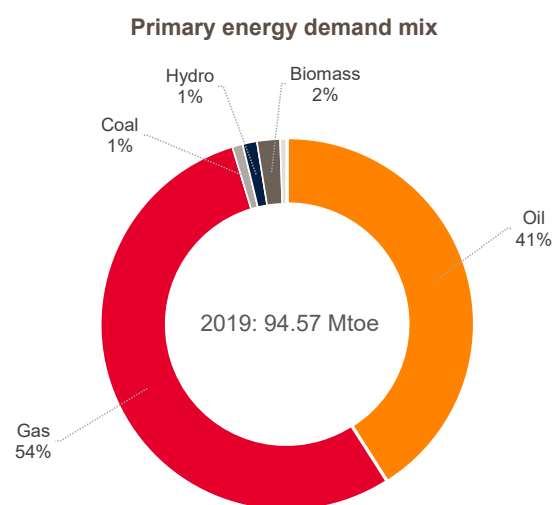


Primary energy demand and CO₂ emissions growth



Egypt (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	73.0	76.2	78.5	77.0	79.6	79.3	85.8	92.8	93.6	94.6	100.0
Oil	34.0	34.0	36.1	36.1	41.4	39.1	40.9	41.8	39.1	38.8	41.0
Gas	35.8	39.0	39.1	37.6	34.9	36.8	41.5	47.4	50.5	51.4	54.3
Coal	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.7	0.9	0.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2	1.2
Biomass	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	2.0
Other renewables	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.5
Electricity balance of trade*	-0.1	-0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	52.9	55.4	56.1	54.5	53.9	55.7	58.5	60.9	60.4	59.2	100.0
Oil	29.4	29.7	30.1	28.7	30.1	30.0	31.0	31.7	29.7	28.0	47.2
Gas	11.0	11.8	12.0	11.9	9.0	10.0	11.8	13.5	14.3	14.5	24.5
Coal	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.6	0.8	1.3
Electricity	10.6	11.9	12.1	11.9	12.7	13.5	13.5	13.7	14.0	14.1	23.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	3.2
Electricity generation, by source	12.6	13.5	14.2	14.5	15.0	16.0	16.0	16.2	16.7	16.8	100.0
Oil	1.7	1.5	2.1	2.5	2.9	3.3	2.5	2.1	2.0	1.9	11.5
Gas	9.7	10.8	10.8	10.6	10.8	11.4	12.1	12.7	13.2	13.2	78.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2	7.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	2.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
Other renewables	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	52.9	55.4	56.1	54.5	53.9	55.7	58.5	60.9	60.4	59.2	100.0
Industry	14.6	15.5	13.7	14.6	13.3	13.1	14.2	15.4	15.8	14.8	25.0
Transport	14.9	15.6	17.0	17.1	17.9	18.3	19.1	19.5	18.6	18.6	31.4
Residential/Commercial	14.2	14.9	15.6	15.7	16.7	17.7	17.6	17.7	17.7	17.7	29.8
Oil final consumption, by sector	29.4	29.7	30.1	28.7	30.1	30.0	31.0	31.7	29.7	28.0	100.0
Industry	5.3	5.1	3.7	4.9	5.4	4.8	5.0	5.3	4.9	3.6	12.8
Transport	14.5	15.2	16.5	16.7	17.5	18.0	18.8	19.1	18.2	18.2	65.0
Residential/Commercial	5.0	5.0	4.8	4.7	4.7	4.8	4.8	4.7	4.4	4.2	15.0
Natural gas final consumption, by sector	11.0	11.8	12.0	11.9	9.0	10.0	11.8	13.5	14.3	14.5	100.0
Industry	5.4	5.9	6.2	6.1	4.2	4.7	5.3	6.1	6.4	6.6	45.2
Transport	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	2.4
Residential/Commercial	0.9	1.0	1.1	1.3	1.5	1.5	1.7	2.0	2.1	2.1	14.5
Refined products consumption	29.4	29.7	30.1	28.7	30.1	30.0	31.0	31.7	29.7	28.0	100.0
Gasoline	5.5	6.1	6.5	6.3	6.8	7.3	7.8	7.6	7.4	7.4	26.6
Diesel	12.2	12.5	12.9	12.9	13.3	13.3	14.0	14.6	13.6	13.6	48.6
Heating Oil	3.8	3.3	2.5	2.6	3.1	2.4	2.3	2.5	2.3	0.8	2.9
Aviation Jet	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.7	0.8	2.8
LPG	4.9	4.9	4.8	4.7	4.7	4.8	4.8	4.7	4.4	4.2	15.1
Imports	12.0	12.1	13.0	15.9	20.6	25.5	30.3	28.1	25.6	22.3	100.0
Oil	12.0	12.1	13.0	15.9	20.6	19.8	22.5	21.6	23.2	21.0	94.1
Gas	0.0	0.0	0.0	0.0	0.0	5.7	7.8	6.4	2.4	1.3	5.9
Gasoline	0.7	1.3	1.3	1.7	2.3	2.7	3.1	3.0	2.6	2.4	10.6
Diesel	3.5	4.7	5.2	6.0	6.5	7.3	8.1	8.0	7.2	7.0	31.3
Heating Oil	1.4	0.7	1.0	2.9	4.1	3.7	2.2	1.4	0.1	0.0	0.0
Aviation Jet	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LPG	2.6	2.5	2.3	2.3	2.5	2.6	2.8	2.8	2.7	2.6	11.9
Exports	23.9	20.0	17.1	15.6	14.3	15.3	14.4	13.2	19.4	20.4	100.0
Oil	13.3	13.0	12.0	13.9	14.0	15.1	13.2	11.3	16.1	13.4	65.5
Gas	10.6	7.0	5.1	1.7	0.3	0.2	1.1	1.9	3.2	7.0	34.5
Gasoline	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.3	1.3
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	1.7
Aviation Jet	0.4	0.2	0.3	0.5	0.5	1.0	0.9	0.8	1.1	1.1	5.2
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	183.6	190.0	196.4	195.6	198.1	205.1	211.1	217.2	217.8	214.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	207.3	210.8	213.2	207.8	204.4	202.8	200.1	197.5	188.1	175.8	-
Final energy intensity (toe/million \$15ppp)	52.4	54.0	53.4	51.9	50.9	50.1	49.8	49.3	46.4	43.0	-
Total energy intensity (toe/million \$15ppp)	82.5	84.5	85.2	81.8	82.2	78.4	81.3	84.4	80.9	77.4	-

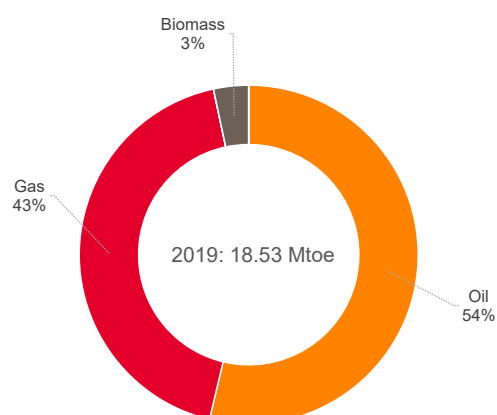
*Heat is included



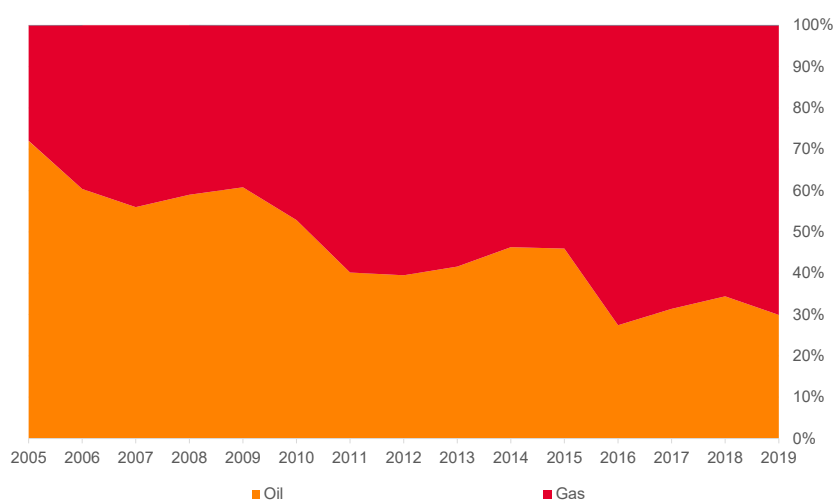
Libya (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	20.4	17.2	17.0	15.1	23.3	18.8	18.6	18.0	17.9	18.5	100.0
Oil	14.1	12.2	11.8	8.7	14.5	11.3	9.2	9.5	9.6	9.7	52.3
Gas	5.8	4.4	4.7	5.8	8.2	6.8	8.8	7.9	7.7	8.2	44.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	3.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.2
Total final consumption, by source	13.4	8.3	9.9	11.2	13.7	11.2	12.0	12.7	13.4	14.0	100.0
Oil	9.2	5.8	8.0	8.7	8.5	6.5	7.5	7.3	7.4	7.8	56.0
Gas	2.2	0.9	0.1	0.7	3.5	3.1	3.1	3.9	4.2	4.3	30.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	1.7	1.4	1.6	1.6	1.5	1.3	1.2	1.2	1.5	1.6	11.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	1.9
Electricity generation, by source	2.8	2.2	2.9	3.3	3.2	3.2	2.7	2.9	2.9	3.0	100.0
Oil	1.5	0.9	1.2	1.4	1.5	1.5	0.7	0.9	1.0	0.9	29.9
Gas	1.3	1.3	1.8	1.9	1.7	1.7	2.0	2.0	1.9	2.1	70.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	13.4	8.3	9.9	11.2	13.7	11.2	12.0	12.7	13.4	14.0	100.0
Industry	1.5	0.6	0.5	1.1	2.1	1.7	1.6	1.9	2.1	2.2	15.7
Transport	6.1	4.6	5.7	6.0	6.6	5.1	6.2	5.8	5.7	6.0	42.8
Residential/Commercial	2.3	1.7	2.3	2.3	2.0	1.7	1.7	1.7	2.0	2.1	14.9
Oil final consumption, by sector	9.2	5.8	8.0	8.7	8.5	6.5	7.5	7.3	7.4	7.8	100.0
Industry	0.5	0.2	0.4	0.7	0.7	0.4	0.4	0.4	0.5	0.6	7.2
Transport	6.1	4.6	5.7	6.0	6.6	5.1	6.2	5.8	5.7	6.0	76.5
Residential/Commercial	0.7	0.4	0.7	0.7	0.6	0.4	0.4	0.4	0.4	0.5	5.8
Natural gas final consumption, by sector	2.2	0.9	0.1	0.7	3.5	3.1	3.1	3.9	4.2	4.3	100.0
Industry	0.8	0.3	0.0	0.2	1.2	1.1	1.1	1.4	1.5	1.5	35.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	9.2	5.8	8.0	8.7	8.5	6.5	7.5	7.3	7.4	7.8	100.0
Gasoline	3.3	2.7	3.7	4.1	4.1	4.0	4.2	4.2	4.2	4.3	54.6
Diesel	2.8	1.8	2.0	1.9	2.5	1.1	1.9	1.6	1.4	1.7	21.8
Heating Oil	0.5	0.2	0.4	0.7	0.7	0.4	0.4	0.4	0.5	0.6	7.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	4.1
Imports	3.9	4.0	5.1	5.9	8.2	6.9	6.2	6.0	5.8	5.8	100.0
Oil	3.9	4.0	5.1	5.9	8.2	6.9	6.2	6.0	5.8	5.8	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	2.6	2.1	3.0	3.4	3.5	3.5	3.8	3.7	3.8	3.9	65.9
Diesel	1.0	1.8	1.7	2.2	4.4	3.3	2.2	2.1	1.9	1.9	32.5
Heating Oil	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	85.6	19.7	75.2	54.5	24.9	23.3	21.6	46.3	57.8	62.4	100.0
Oil	77.6	17.8	69.9	49.9	19.6	17.5	17.7	42.6	54.1	57.7	92.5
Gas	8.0	2.0	5.3	4.7	5.3	5.8	3.9	3.8	3.7	4.7	7.5
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	2.5	0.4	0.3	2.1	0.0	0.3	0.4	0.3	0.2	0.2	0.3
Aviation Jet	1.2	0.7	0.8	1.1	0.4	0.3	0.2	0.4	0.6	0.6	1.0
LPG	0.2	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
CO₂ Emissions (Million tons CO₂)	51.6	35.7	45.2	49.8	54.7	48.8	47.3	49.3	50.4	52.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	332.9	607.8	344.8	440.0	635.5	622.3	620.2	510.5	483.4	456.3	-
Final energy intensity (toe/million \$15ppp)	65.2	120.5	65.9	83.4	125.5	110.0	125.5	99.0	94.4	90.5	-
Total energy intensity (toe/million \$15ppp)	131.7	292.8	130.1	133.5	270.8	239.2	243.7	186.9	171.6	161.7	-

*Heat is included

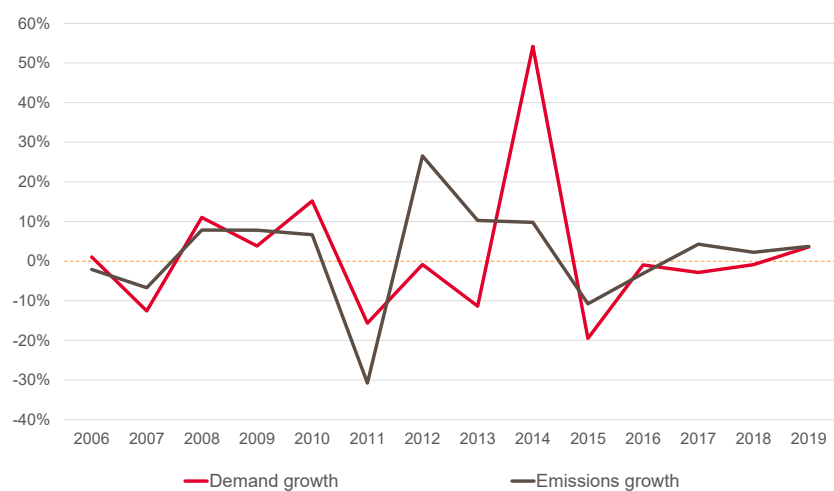
Primary energy demand mix



Electricity generation by source



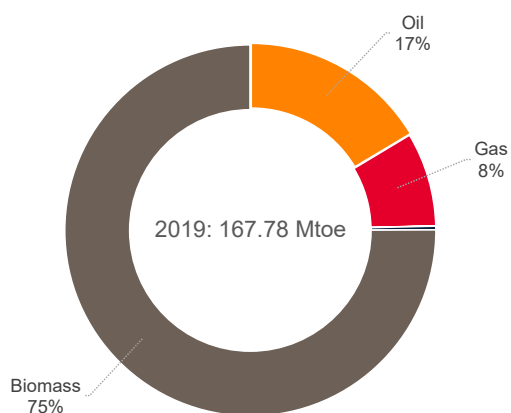
Primary energy demand and CO₂ emissions growth



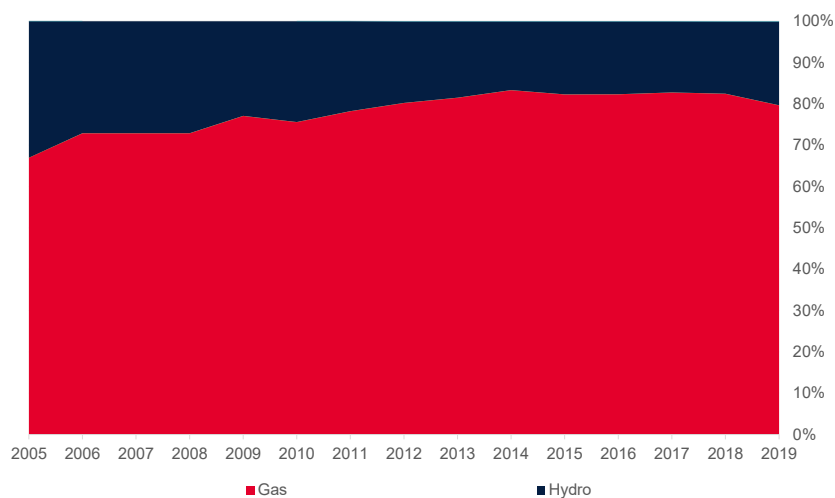
Nigeria (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	127.4	138.9	140.3	142.9	146.6	145.2	149.8	157.3	165.2	167.8	100.0
Oil	20.3	24.0	19.3	21.4	23.2	19.1	21.3	25.7	28.1	27.5	16.4
Gas	8.8	12.2	12.6	12.5	14.3	14.2	13.9	14.2	13.7	13.7	8.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Biomass	97.7	102.1	107.9	108.5	108.6	111.5	114.1	116.9	122.9	125.9	75.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.0	-0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	0.0	0.0	0.0
Total final consumption, by source	105.9	110.9	115.6	123.6	126.0	126.9	129.7	132.4	138.2	140.7	100.0
Oil	11.9	11.0	11.3	18.0	20.1	18.2	19.0	18.9	19.4	19.0	13.5
Gas	1.2	3.5	3.1	3.3	3.8	3.8	3.4	3.5	3.4	3.4	2.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	1.8	2.0	2.2	2.0	2.1	2.2	2.2	2.2	2.2	2.2	1.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	91.0	94.4	99.0	100.2	100.0	102.7	105.1	107.8	113.3	116.1	82.5
Electricity generation, by source	2.2	2.3	2.5	2.5	2.8	2.8	2.7	2.8	2.7	2.7	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	1.7	1.8	2.0	2.0	2.3	2.3	2.3	2.3	2.2	2.2	79.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	20.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	105.9	110.9	115.6	123.6	126.0	126.9	129.7	132.4	138.2	140.7	100.0
Industry	7.1	9.8	10.1	9.9	7.3	7.4	7.1	7.2	7.1	7.1	5.1
Transport	9.6	8.7	9.0	15.2	16.7	15.2	17.4	17.4	18.1	18.0	12.8
Residential/Commercial	88.5	91.4	95.4	97.2	100.4	102.7	103.7	106.4	111.7	114.2	81.2
Oil final consumption, by sector	11.9	11.0	11.3	18.0	20.1	18.2	19.0	18.9	19.4	19.0	100.0
Industry	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1	0.6
Transport	9.6	8.7	9.0	15.2	16.7	15.2	17.4	17.4	18.1	18.0	94.7
Residential/Commercial	1.9	1.9	1.9	2.3	2.7	2.3	0.8	0.9	0.9	0.7	3.8
Natural gas final consumption, by sector	1.2	3.5	3.1	3.3	3.8	3.8	3.4	3.5	3.4	3.4	100.0
Industry	0.6	2.6	2.0	2.1	2.5	2.4	2.2	2.3	2.2	2.2	64.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	11.9	11.0	11.3	18.0	20.1	18.2	19.0	18.9	19.4	19.0	100.0
Gasoline	8.2	7.9	8.2	12.5	13.7	12.5	13.7	13.7	15.2	15.9	83.6
Diesel	1.3	0.7	0.6	2.5	2.9	2.6	3.5	3.5	2.8	2.1	10.9
Heating Oil	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1	0.6
Aviation Jet	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.0	0.1
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2
Imports	17.3	20.2	15.9	17.7	20.6	17.3	19.9	23.6	28.0	24.6	100.0
Oil	17.3	20.2	15.9	17.7	20.6	17.3	19.9	23.6	28.0	24.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	12.7	16.3	12.1	13.3	14.5	11.1	14.5	18.6	21.9	19.7	80.0
Diesel	2.7	2.1	1.9	2.2	3.4	3.9	4.0	3.8	3.9	3.8	15.3
Heating Oil	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.3	0.4	0.2	0.9
Aviation Jet	0.5	0.5	0.6	0.4	0.4	0.5	0.6	0.6	0.6	0.1	0.6
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	143.5	139.4	142.6	125.4	129.4	129.7	109.5	114.4	116.9	122.8	100.0
Oil	125.7	120.3	121.6	107.6	109.1	108.2	90.5	91.8	94.7	100.0	81.5
Gas	17.7	19.1	21.0	17.8	20.4	21.5	19.0	22.7	22.3	22.8	18.5
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.5	0.7	0.4	0.3	0.3	0.1	0.2	0.5	0.1	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	56.4	61.7	63.4	82.7	91.3	85.0	87.0	88.1	88.3	86.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	65.6	68.0	67.1	82.1	85.2	77.3	80.4	80.8	79.5	76.5	-
Final energy intensity (toe/million \$15ppp)	122.2	121.3	121.2	121.4	116.2	113.9	118.5	120.1	123.1	122.6	-
Total energy intensity (toe/million \$15ppp)	148.0	153.2	148.5	141.8	136.8	132.0	138.4	144.2	148.6	147.6	-

*Heat is included

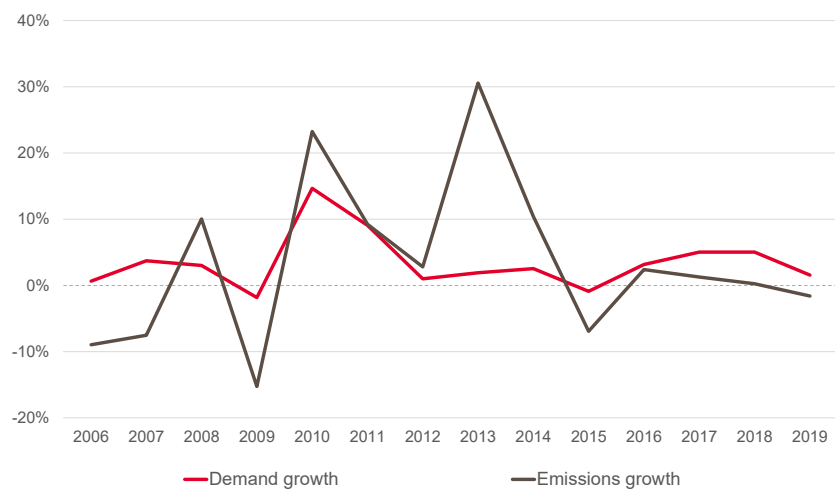
Primary energy demand mix



Electricity generation by source



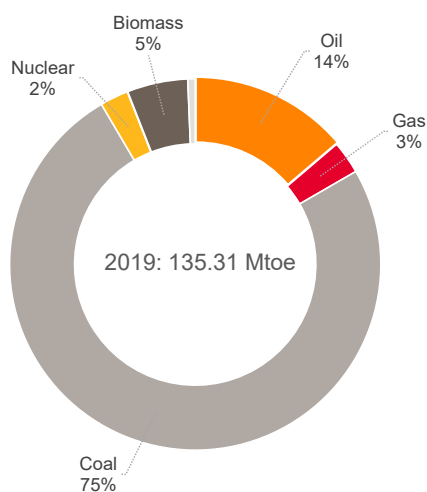
Primary energy demand and CO₂ emissions growth



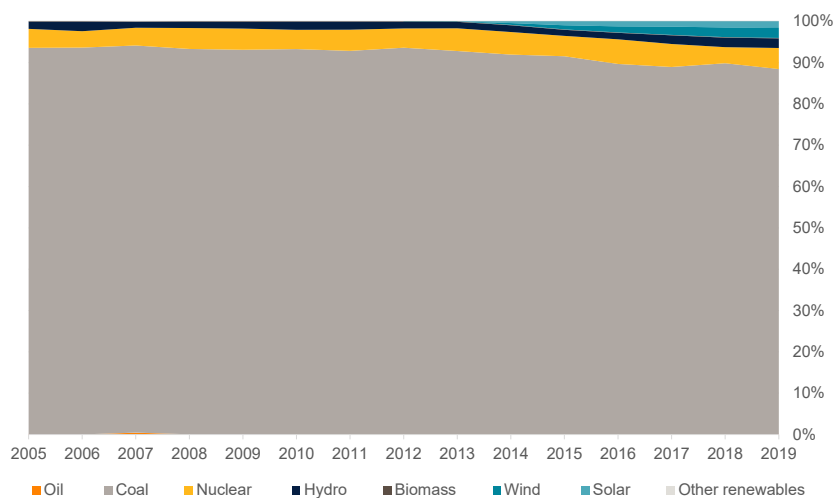
South Africa (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	131.8	134.6	129.1	128.4	136.3	127.0	130.2	132.1	133.3	135.3	100.0
Oil	17.7	22.2	18.4	18.2	19.9	18.2	16.8	18.8	18.8	18.7	13.8
Gas	3.9	3.8	4.0	4.1	3.9	4.4	4.4	4.3	4.1	3.9	2.9
Coal	100.5	98.5	97.1	95.8	101.8	94.2	98.1	98.2	100.2	101.6	75.1
Nuclear	3.2	3.5	3.1	3.7	3.6	3.2	3.9	3.7	2.6	3.3	2.5
Hydro	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Biomass	6.6	6.6	6.7	6.8	6.9	6.6	6.7	6.7	6.9	7.2	5.3
Other renewables	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.7	0.8	0.9	0.6
Electricity balance of trade*	-0.1	-0.2	-0.4	-0.3	-0.1	-0.0	-0.4	-0.4	-0.2	-0.3	-0.2
Total final consumption, by source	61.8	62.8	64.5	67.7	67.4	65.8	64.4	68.3	69.5	69.6	100.0
Oil	22.2	24.0	23.8	25.2	24.3	25.2	24.2	25.3	25.3	25.2	36.2
Gas	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	2.8
Coal	15.3	13.3	15.8	17.6	18.4	16.1	15.8	18.4	19.2	19.8	28.5
Electricity	17.4	17.6	17.0	16.9	16.8	16.7	16.6	16.7	17.0	16.5	23.6
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3
Biomass	5.5	5.5	5.6	5.6	5.7	5.5	5.6	5.6	5.8	5.9	8.5
Electricity generation, by source	22.3	22.6	22.2	22.0	21.7	21.5	21.7	21.9	22.0	21.7	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	20.8	20.9	20.7	20.4	20.0	19.6	19.5	19.5	19.8	19.2	88.4
Nuclear	1.0	1.2	1.0	1.2	1.2	1.1	1.3	1.2	0.9	1.1	5.1
Hydro	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.5	0.5	0.5	2.3
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	2.4
Solar	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	1.6
Other renewables	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0
Total final consumption, by sector	61.8	62.8	64.5	67.7	67.4	65.8	64.4	68.3	69.5	69.6	100.0
Industry	25.5	24.4	24.3	25.8	26.4	25.3	25.1	24.6	25.2	25.1	36.1
Transport	15.9	16.8	16.9	18.4	17.4	18.1	17.3	18.3	18.4	18.4	26.4
Residential/Commercial	14.0	14.7	16.6	16.9	17.0	16.0	15.6	18.8	19.4	19.6	28.2
Oil final consumption, by sector	22.2	24.0	23.8	25.2	24.3	25.2	24.2	25.3	25.3	25.2	100.0
Industry	1.5	1.7	1.9	2.0	2.1	2.3	2.1	2.1	2.2	2.1	8.4
Transport	15.6	16.5	16.5	18.0	17.1	17.8	17.0	18.0	18.1	18.1	71.7
Residential/Commercial	0.8	0.9	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	3.0
Natural gas final consumption, by sector	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	100.0
Industry	1.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.0	98.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Refined products consumption	22.2	24.0	23.8	25.2	24.3	25.2	24.2	25.3	25.3	25.2	100.0
Gasoline	8.7	9.2	9.1	9.4	8.5	8.9	8.9	9.2	9.2	8.9	35.2
Diesel	8.7	9.9	10.0	11.4	11.4	12.0	10.8	11.5	11.8	12.2	48.3
Heating Oil	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	1.4
Aviation Jet	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.6	0.7	2.6
LPG	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	1.2
Imports	27.9	30.9	28.9	29.2	31.5	30.4	28.4	29.9	31.5	30.9	100.0
Oil	25.3	28.2	25.8	26.1	28.4	27.0	24.9	26.4	28.0	27.5	88.9
Gas	2.6	2.7	3.1	3.1	3.1	3.3	3.5	3.5	3.5	3.4	11.1
Gasoline	1.6	1.9	1.4	1.2	0.9	1.5	1.1	1.6	1.7	1.1	3.7
Diesel	2.1	3.3	3.3	4.4	4.5	5.8	3.9	5.4	5.4	5.2	16.9
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.3	0.4	1.2
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.2	0.7
Exports	2.3	2.0	2.8	3.6	3.3	4.4	4.1	4.0	4.4	3.8	100.0
Oil	2.3	2.0	2.8	3.6	3.3	4.4	4.1	4.0	4.4	3.8	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.2	0.3	0.7	0.8	0.8	0.9	0.8	1.0	0.9	24.3
Diesel	0.6	0.5	0.8	1.4	1.3	1.4	1.7	1.6	1.6	1.6	42.2
Heating Oil	0.9	1.0	1.2	1.1	0.9	1.2	1.0	0.9	1.0	0.8	20.4
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.7	0.3	0.3	0.4	0.3	7.0
LPG	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	3.3
CO₂ Emissions (Million tons CO₂)	428.7	413.1	430.0	439.6	452.2	426.6	428.4	430.2	442.1	446.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	654.6	610.7	622.0	620.4	626.7	583.7	582.8	577.6	589.0	594.2	-
Final energy intensity (toe/million \$15ppp)	88.1	86.7	87.8	90.3	88.3	85.3	82.5	87.1	88.2	88.1	-
Total energy intensity (toe/million \$15ppp)	201.3	199.0	186.7	181.2	188.9	173.8	177.1	177.3	177.6	180.0	-

*Heat is included

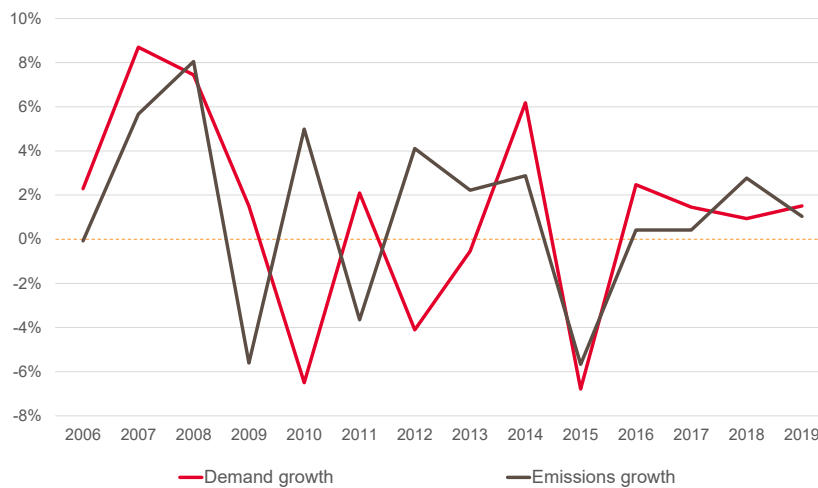
Primary energy demand mix



Electricity generation by source



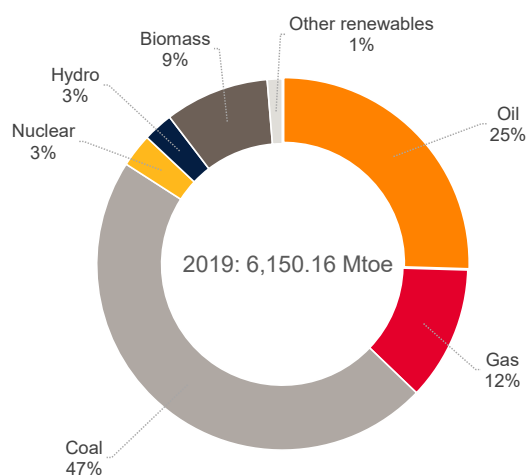
Primary energy demand and CO₂ emissions growth



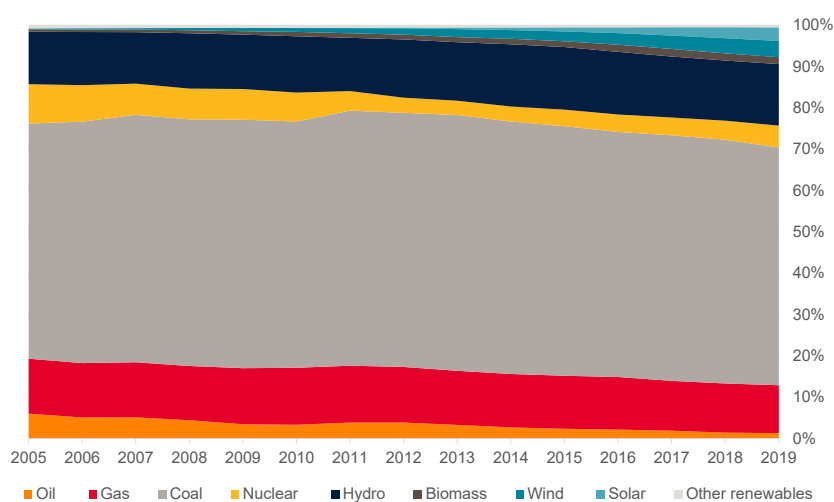
Asia-Pacific (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	4,974.7	5,161.9	5,316.4	5,456.9	5,577.7	5,630.2	5,672.0	5,824.3	6,001.1	6,150.2	100.0
Oil	1,210.4	1,230.9	1,287.5	1,314.2	1,338.2	1,386.0	1,423.6	1,462.8	1,492.6	1,545.5	25.1
Gas	485.3	520.0	540.8	569.5	585.2	584.4	604.8	629.0	676.8	707.3	11.5
Coal	2,462.7	2,622.4	2,701.5	2,769.2	2,818.9	2,800.0	2,739.2	2,796.2	2,844.6	2,847.5	46.3
Nuclear	151.7	110.1	89.0	88.8	97.3	110.4	122.5	130.3	148.7	175.7	2.9
Hydro	95.3	96.7	110.7	118.3	130.8	135.1	141.4	144.3	150.3	158.3	2.6
Biomass	515.3	520.6	518.7	515.6	517.8	515.0	529.5	532.9	540.4	552.0	9.0
Other renewables	7.1	10.5	13.9	20.0	24.3	30.6	40.2	52.7	67.4	78.7	1.3
Electricity balance of trade*	46.9	50.7	54.3	61.1	65.3	68.6	71.0	76.0	80.3	85.1	1.4
Total final consumption, by source	3,431.2	3,577.2	3,687.8	3,797.5	3,866.2	3,928.4	3,981.5	4,067.4	4,199.4	4,291.7	100.0
Oil	1,026.9	1,056.2	1,106.1	1,146.1	1,170.7	1,223.9	1,258.5	1,309.3	1,348.2	1,394.0	32.5
Gas	226.0	237.4	250.3	265.8	272.5	271.8	285.9	312.5	343.3	359.6	8.4
Coal	1,035.8	1,089.2	1,101.7	1,114.9	1,119.8	1,107.1	1,066.1	1,027.3	1,024.3	1,012.3	23.6
Electricity	596.3	638.4	670.5	710.4	740.3	761.9	803.4	845.5	897.9	921.8	21.5
Heat	80.8	89.0	97.5	108.0	113.2	120.7	129.9	137.8	146.3	154.6	3.6
Biomass	465.4	467.1	461.6	452.2	449.7	443.1	437.7	435.0	439.4	449.4	10.5
Electricity generation, by source	715.2	767.3	800.1	850.0	882.3	908.0	956.8	1,005.0	1,063.0	1,092.8	100.0
Oil	23.8	29.6	30.8	27.7	23.6	21.2	20.6	18.8	15.1	14.1	1.3
Gas	98.5	105.4	107.6	111.5	114.0	116.6	121.8	121.2	126.3	126.6	11.6
Coal	426.4	473.8	492.1	526.2	539.2	548.5	567.4	597.6	627.3	628.9	57.5
Nuclear	50.1	36.3	29.4	29.3	32.1	36.4	40.4	43.0	49.1	58.0	5.3
Hydro	97.4	98.8	112.7	120.4	132.9	137.4	145.2	148.4	154.5	162.6	14.9
Biomass	7.8	8.6	9.2	10.5	11.6	12.7	16.5	18.4	18.4	18.4	1.7
Wind	6.6	9.5	12.3	16.6	18.5	21.7	26.6	32.4	39.0	42.8	3.9
Solar	0.5	1.0	1.7	3.4	5.8	8.9	13.6	20.3	28.4	35.9	3.3
Other renewables	4.2	4.3	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.5	0.5
Total final consumption, by sector	3,431.2	3,577.2	3,687.8	3,797.5	3,866.2	3,928.4	3,981.5	4,067.4	4,199.4	4,291.7	100.0
Industry	1,563.6	1,634.5	1,665.5	1,701.6	1,726.0	1,731.5	1,716.6	1,733.7	1,783.7	1,803.2	42.0
Transport	527.9	560.4	598.7	631.5	646.0	677.6	700.7	731.7	761.1	793.2	18.5
Residential/Commercial	923.1	949.5	966.6	966.9	997.8	1,012.2	1,042.7	1,072.2	1,112.4	1,143.0	26.6
Oil final consumption, by sector	1,026.9	1,056.2	1,106.1	1,146.1	1,170.7	1,223.9	1,258.5	1,309.3	1,348.2	1,394.0	100.0
Industry	128.6	118.2	122.9	119.5	116.9	126.3	130.3	132.5	134.2	139.4	10.0
Transport	500.5	528.1	564.1	593.5	604.3	634.1	653.1	681.5	704.7	733.3	52.6
Residential/Commercial	113.9	117.0	118.1	121.5	124.5	131.1	135.9	142.3	146.8	151.6	10.9
Natural gas final consumption, by sector	226.0	237.4	250.3	265.8	272.5	271.8	285.9	312.5	343.3	359.6	100.0
Industry	104.2	99.4	102.5	110.7	113.5	109.2	116.4	134.8	150.2	157.6	43.8
Transport	14.7	18.2	19.0	20.8	23.3	25.0	25.9	27.4	30.9	32.6	9.1
Residential/Commercial	72.4	78.0	81.5	84.0	86.4	89.4	93.5	99.8	108.7	112.5	31.3
Refined products consumption	1,019.2	1,053.1	1,101.6	1,143.0	1,165.3	1,218.5	1,253.4	1,306.6	1,345.4	1,391.1	100.0
Gasoline	211.9	221.2	233.7	255.4	258.0	281.9	292.7	304.9	316.4	329.9	23.7
Diesel	356.1	377.5	406.8	411.6	414.5	422.1	419.2	435.0	445.2	463.8	33.3
Heating Oil	46.7	42.2	37.4	33.8	32.9	32.2	32.9	32.8	31.5	30.6	2.2
Aviation Jet	25.1	24.9	26.5	29.8	32.6	36.0	39.5	42.9	46.0	47.9	3.4
LPG	89.3	92.5	93.3	99.8	106.3	111.8	123.5	131.3	137.7	143.3	10.3
Imports	1,495.1	1,571.3	1,638.0	1,679.2	1,707.9	1,778.8	1,888.1	1,988.7	2,050.2	2,078.2	100.0
Oil	1,306.4	1,346.8	1,399.8	1,425.1	1,448.3	1,521.1	1,612.6	1,687.3	1,715.0	1,741.1	83.8
Gas	188.7	224.5	238.2	254.1	259.7	257.7	275.5	301.4	335.2	337.1	16.2
Gasoline	44.3	48.1	53.8	58.4	57.5	60.1	62.0	61.9	54.0	58.2	2.8
Diesel	70.6	70.6	68.1	67.4	74.4	73.5	85.3	92.4	91.0	100.5	4.8
Heating Oil	112.3	121.6	119.5	124.0	115.7	116.1	113.9	117.5	107.6	88.9	4.3
Aviation Jet	20.5	20.8	20.1	22.0	20.5	21.9	26.0	28.1	26.3	22.9	1.1
LPG	38.7	41.4	43.1	44.9	50.1	56.2	66.3	69.7	74.1	80.1	3.9
Exports	468.3	478.5	472.3	483.9	485.2	513.3	550.9	576.5	556.0	557.7	100.0
Oil	364.8	372.9	372.7	379.0	377.0	398.3	422.8	428.7	403.7	399.6	71.7
Gas	103.5	105.6	99.6	104.9	108.3	115.0	128.0	147.8	152.4	158.1	28.3
Gasoline	56.0	56.0	61.2	60.0	64.9	69.0	71.2	71.2	60.0	63.2	11.3
Diesel	98.8	97.0	99.8	104.1	104.5	108.8	120.6	125.2	126.3	131.6	23.6
Heating Oil	54.3	64.4	58.1	61.4	56.2	56.5	57.3	60.9	55.9	50.7	9.1
Aviation Jet	33.9	34.3	35.8	39.2	40.1	44.4	48.3	50.5	54.5	54.3	9.7
LPG	4.1	4.7	4.2	4.2	4.4	4.1	4.2	4.6	4.9	5.6	1.0
CO₂ Emissions (Million tons CO₂)	13,175.7	14,071.6	14,584.4	15,082.7	15,202.5	15,257.2	15,311.5	15,677.3	16,133.7	16,318.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	377.3	380.5	373.0	364.6	348.0	330.8	314.4	304.4	297.3	287.5	-
Final energy intensity (toe/million \$15ppp)	98.3	96.7	94.3	91.8	88.5	85.2	81.8	79.0	77.4	75.6	-
Total energy intensity (toe/million \$15ppp)	142.5	139.6	136.0	131.9	127.7	122.1	116.5	113.1	110.6	108.4	-

*Heat is included

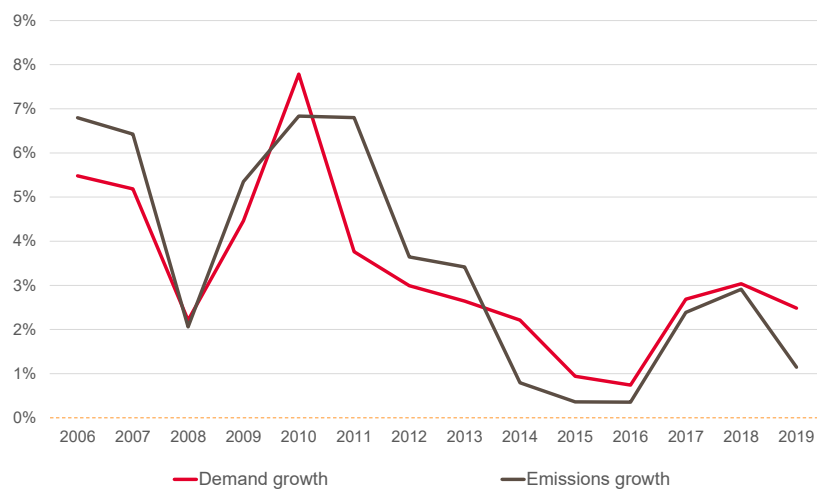
Primary energy demand mix



Electricity generation by source



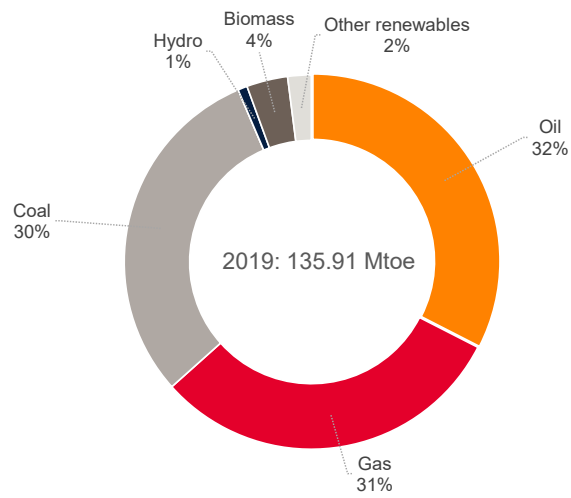
Primary energy demand and CO₂ emissions growth



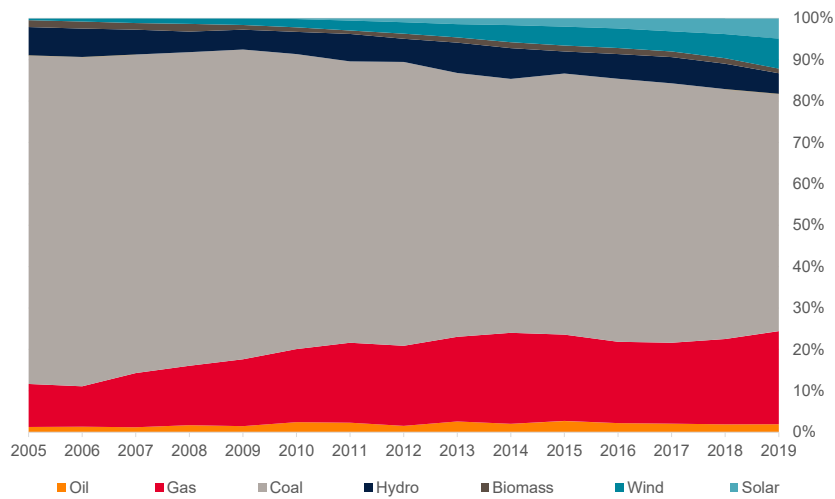
Australia (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	127.3	128.2	126.7	127.5	126.3	126.7	128.2	127.0	127.8	135.9	100.0
Oil	41.6	43.2	44.1	45.1	44.5	42.5	43.0	42.9	44.3	44.1	32.4
Gas	28.4	29.9	28.6	30.9	32.3	33.1	32.9	31.3	32.5	41.8	30.8
Coal	50.5	48.1	47.0	43.7	41.5	42.9	44.0	43.9	42.0	40.9	30.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.4	1.2	1.6	1.6	1.1	1.3	1.4	1.4	1.1	0.8
Biomass	4.9	4.7	4.7	4.9	4.9	5.2	5.1	5.4	5.1	4.8	3.5
Other renewables	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.2	2.7	2.0
Electricity balance of trade*	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3
Total final consumption, by source	77.6	80.0	80.8	81.8	81.8	81.7	81.9	82.3	84.0	85.0	100.0
Oil	39.0	41.2	42.6	43.0	43.1	42.5	43.1	43.7	44.9	44.7	52.5
Gas	12.4	12.5	12.5	13.0	13.3	13.3	13.0	12.6	13.1	14.2	16.7
Coal	3.8	3.7	3.2	3.1	3.1	3.0	3.1	3.3	3.3	3.3	3.9
Electricity	18.1	18.2	18.0	18.0	17.9	18.2	18.2	18.1	18.4	18.6	21.9
Heat	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5
Biomass	4.2	4.1	4.1	4.4	4.2	4.3	4.2	4.2	3.9	3.8	4.5
Electricity generation, by source	21.7	21.8	21.6	21.4	21.3	21.6	22.1	22.2	22.5	22.6	100.0
Oil	0.5	0.5	0.3	0.6	0.4	0.6	0.5	0.5	0.4	0.4	1.9
Gas	3.8	4.2	4.2	4.4	4.7	4.5	4.3	4.3	4.6	5.1	22.5
Coal	15.5	14.8	14.8	13.7	13.1	13.6	14.0	13.9	13.6	13.0	57.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.4	1.2	1.6	1.6	1.2	1.3	1.4	1.4	1.1	4.9
Biomass	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.1
Wind	0.4	0.5	0.6	0.7	0.9	1.0	1.0	1.1	1.3	1.6	7.2
Solar	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	4.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	77.6	80.0	80.8	81.8	81.8	81.7	81.9	82.3	84.0	85.0	100.0
Industry	24.0	24.6	24.6	25.1	24.9	24.0	23.4	23.2	23.8	24.9	29.2
Transport	29.8	30.6	30.8	31.3	31.4	32.2	32.5	33.1	33.7	33.3	39.2
Residential/Commercial	17.2	17.6	17.6	17.8	17.7	18.3	18.5	18.6	18.7	18.9	22.2
Oil final consumption, by sector	39.0	41.2	42.6	43.0	43.1	42.5	43.1	43.7	44.9	44.7	100.0
Industry	3.2	3.9	4.5	4.6	4.5	3.9	3.6	3.6	3.8	3.9	8.7
Transport	29.1	29.9	30.1	30.6	30.6	31.3	31.7	32.4	33.0	32.6	73.0
Residential/Commercial	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	2.7
Natural gas final consumption, by sector	12.4	12.5	12.5	13.0	13.3	13.3	13.0	12.6	13.1	14.2	100.0
Industry	7.4	7.5	7.5	7.8	7.8	7.7	7.2	7.0	7.4	8.4	59.2
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Residential/Commercial	4.2	4.3	4.3	4.4	4.5	4.7	4.8	4.8	4.9	4.9	34.8
Refined products consumption	39.0	41.2	42.6	43.0	43.1	42.5	43.0	43.6	44.9	44.7	100.0
Gasoline	14.9	15.1	14.8	14.8	14.3	14.4	14.3	14.8	14.4	14.0	31.3
Diesel	14.9	15.4	16.3	17.3	17.8	18.4	18.9	19.6	21.2	21.3	47.7
Heating Oil	0.9	0.9	0.9	0.8	0.6	0.3	0.2	0.1	0.1	0.2	0.5
Aviation Jet	2.4	2.6	2.7	2.9	3.0	3.0	3.1	3.0	2.9	2.9	6.4
LPG	2.2	2.2	2.2	2.2	2.2	2.1	2.0	1.7	1.6	1.6	3.5
Imports	42.9	46.4	47.3	49.5	49.1	48.1	49.1	50.2	52.8	50.7	100.0
Oil	38.0	40.8	42.3	44.6	43.9	43.3	43.7	45.3	48.4	46.8	92.3
Gas	4.9	5.6	5.0	4.9	5.2	4.8	5.4	4.9	4.4	3.9	7.7
Gasoline	3.0	2.1	2.9	2.9	2.8	4.3	5.2	5.4	5.0	5.5	10.8
Diesel	7.4	7.5	9.6	10.6	11.4	12.7	15.2	15.7	17.1	17.2	34.0
Heating Oil	1.7	1.5	1.6	1.6	1.3	0.2	0.3	0.2	0.6	0.5	1.0
Aviation Jet	1.8	1.8	1.9	2.7	2.9	3.6	4.7	4.9	5.2	4.9	9.7
LPG	0.6	0.5	0.6	0.5	0.4	0.6	0.5	0.6	0.5	0.5	1.0
Exports	38.5	42.0	39.0	43.0	41.7	44.0	56.8	74.4	86.6	96.7	100.0
Oil	17.6	18.7	17.0	15.5	14.5	14.6	13.4	13.0	13.5	15.6	16.1
Gas	20.9	23.3	22.1	27.5	27.2	29.4	43.4	61.4	73.1	81.1	83.9
Gasoline	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Diesel	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
Heating Oil	0.1	0.2	0.5	0.2	0.0	0.1	0.2	0.3	0.2	0.2	0.2
Aviation Jet	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
LPG	1.7	1.5	1.3	1.5	1.5	1.3	1.2	1.4	1.4	1.8	1.8
CO₂ Emissions (Million tons CO₂)	394.2	392.6	390.9	384.2	375.0	381.0	389.9	392.3	390.6	395.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	410.9	399.6	382.9	366.6	349.0	346.4	344.7	340.2	329.7	327.7	-
Final energy intensity (toe/million \$15ppp)	76.3	76.3	73.6	72.9	71.0	69.9	68.0	67.2	66.5	66.1	-
Total energy intensity (toe/million \$15ppp)	132.7	130.5	124.1	121.7	117.5	115.2	113.4	110.2	107.9	112.6	-

*Heat is included

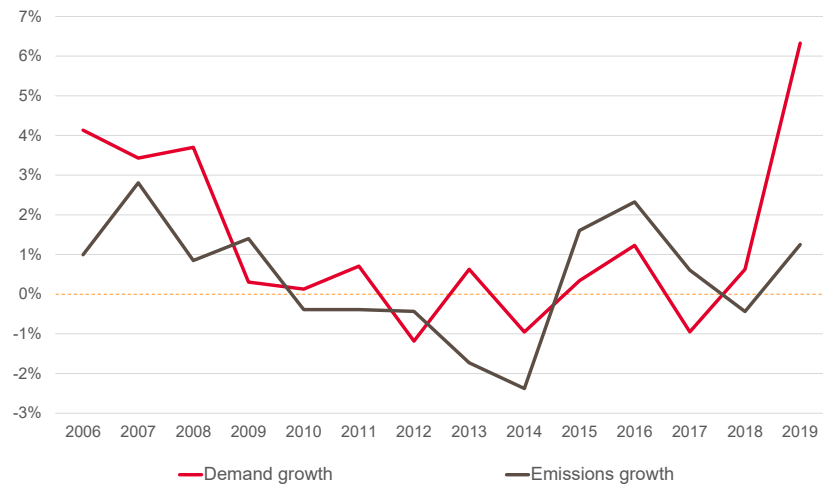
Primary energy demand mix



Electricity generation by source



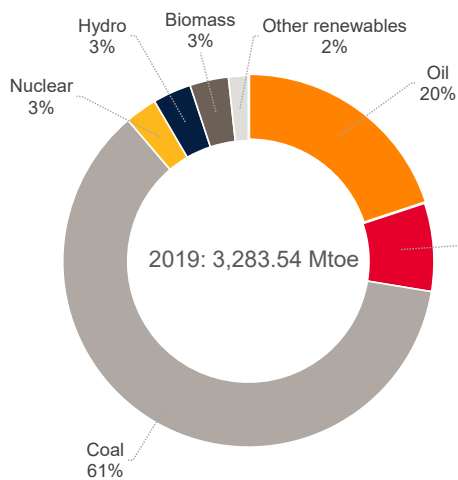
Primary energy demand and CO₂ emissions growth



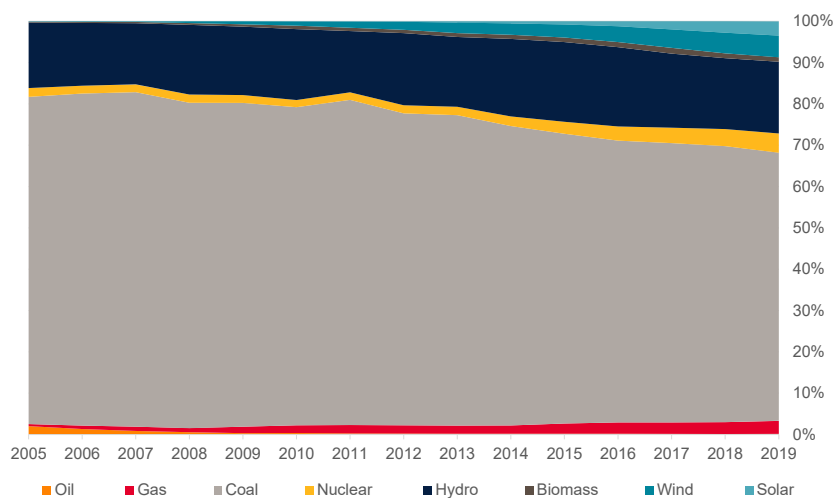
China (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	2,536.4	2,722.6	2,820.7	2,911.6	2,966.0	2,993.7	2,977.4	3,068.6	3,183.0	3,283.5	100.0
Oil	428.6	443.3	465.3	486.8	506.3	535.7	548.1	572.5	607.1	647.0	19.7
Gas	89.4	110.0	123.4	140.5	153.6	158.5	170.7	195.1	229.7	249.4	7.6
Coal	1,789.9	1,940.5	1,985.9	2,025.1	2,023.9	1,996.9	1,932.5	1,954.1	1,973.7	1,986.8	60.5
Nuclear	19.3	22.5	25.4	29.1	34.5	44.5	55.6	64.6	76.7	90.8	2.8
Hydro	61.2	59.2	74.2	78.2	90.4	95.8	100.0	99.5	102.5	108.6	3.3
Biomass	133.3	126.7	120.2	114.2	114.8	113.7	112.9	113.8	111.7	109.2	3.3
Other renewables	3.9	6.3	8.8	13.5	15.9	19.8	26.9	36.6	47.7	56.0	1.7
Electricity balance of trade*	10.8	14.3	17.5	24.3	26.4	28.7	30.7	32.3	33.9	35.7	1.1
Total final consumption, by source	1,752.7	1,859.1	1,931.5	2,004.0	2,046.1	2,079.9	2,093.3	2,116.1	2,200.0	2,268.1	100.0
Oil	369.0	385.5	408.2	432.7	451.3	480.4	494.7	514.3	545.1	580.1	25.6
Gas	76.5	78.8	88.1	98.8	108.0	108.1	117.0	134.2	160.4	171.3	7.6
Coal	816.3	868.7	885.3	889.1	882.3	868.8	829.7	781.8	761.7	752.8	33.2
Electricity	296.8	332.2	355.0	387.0	405.6	419.4	445.2	476.2	516.6	540.8	23.8
Heat	73.6	81.6	90.2	100.7	105.5	112.9	121.7	129.0	136.9	145.3	6.4
Biomass	120.5	112.2	104.6	95.8	93.5	90.3	85.1	80.6	79.2	77.9	3.4
Electricity generation, by source	361.9	405.6	429.5	468.5	488.4	503.9	534.7	570.6	614.5	643.4	100.0
Oil	1.3	1.0	0.9	0.9	0.8	0.8	0.9	0.8	0.8	1.0	0.1
Gas	6.7	8.3	8.5	9.2	9.8	12.5	14.7	15.7	17.4	20.3	3.1
Coal	278.6	319.2	324.3	352.0	353.9	353.4	364.8	385.7	410.6	417.6	64.9
Nuclear	6.4	7.4	8.4	9.6	11.4	14.7	18.3	21.3	25.3	30.0	4.7
Hydro	62.1	60.1	75.0	79.1	91.5	97.2	102.6	102.3	105.4	111.6	17.3
Biomass	2.9	3.3	3.5	4.2	4.9	5.5	6.5	8.0	7.3	7.0	1.1
Wind	3.8	6.0	8.3	12.1	13.4	16.0	20.4	25.4	30.7	33.8	5.3
Solar	0.1	0.2	0.5	1.3	2.5	3.9	6.5	11.2	16.9	22.2	3.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	1,752.7	1,859.1	1,931.5	2,004.0	2,046.1	2,079.9	2,093.3	2,116.1	2,200.0	2,268.1	100.0
Industry	1,032.0	1,089.9	1,120.1	1,142.2	1,143.5	1,136.0	1,117.1	1,106.5	1,130.4	1,146.2	50.5
Transport	197.1	216.1	238.2	257.9	268.6	288.7	295.9	310.0	331.1	351.8	15.5
Residential/Commercial	354.9	368.0	380.9	398.2	410.4	428.5	448.0	468.7	499.6	521.6	23.0
Oil final consumption, by sector	369.0	385.5	408.2	432.7	451.3	480.4	494.7	514.3	545.1	580.1	100.0
Industry	61.1	48.8	51.5	50.3	44.8	49.0	52.9	51.2	54.6	58.7	10.1
Transport	183.1	198.7	219.1	236.3	244.0	262.2	267.2	278.4	295.0	313.0	54.0
Residential/Commercial	35.9	38.4	40.1	42.7	45.9	51.7	54.8	58.2	60.9	64.2	11.1
Natural gas final consumption, by sector	76.5	78.8	88.1	98.8	108.0	108.1	117.0	134.2	160.4	171.3	100.0
Industry	35.8	29.7	32.8	39.2	42.1	40.2	45.7	58.3	69.7	74.4	43.4
Transport	6.7	9.2	10.2	11.9	14.6	16.3	17.1	18.7	22.4	23.9	13.9
Residential/Commercial	26.8	30.7	33.7	36.4	39.2	41.6	43.8	48.4	57.9	61.8	36.1
Refined products consumption	365.8	384.0	407.3	431.2	447.4	477.0	491.6	513.6	544.4	579.3	100.0
Gasoline	71.6	78.2	84.1	96.5	100.7	117.1	122.2	127.9	137.4	146.3	25.3
Diesel	145.3	153.8	168.7	170.8	171.4	173.1	167.6	168.3	175.1	185.7	32.1
Heating Oil	13.5	11.9	10.7	12.2	12.6	11.1	10.3	11.6	11.4	11.3	2.0
Aviation Jet	11.3	11.1	12.3	14.0	15.7	18.0	20.4	23.1	25.6	27.1	4.7
LPG	26.4	27.3	27.4	30.6	35.4	40.5	47.6	53.4	56.2	59.1	10.2
Imports	299.1	332.3	356.3	376.1	401.9	437.7	495.9	556.7	632.2	681.9	100.0
Oil	286.5	307.8	323.0	334.5	354.9	389.1	436.8	482.4	532.7	575.6	84.4
Gas	12.6	24.5	33.3	41.7	46.9	48.6	59.0	74.2	99.5	106.2	15.6
Gasoline	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.3	0.0
Diesel	1.8	2.4	0.9	0.3	0.5	0.4	0.9	0.8	0.8	1.3	0.2
Heating Oil	23.0	26.8	26.8	23.5	17.8	15.4	11.7	13.6	16.6	14.8	2.2
Aviation Jet	5.0	5.5	5.4	5.5	4.0	3.6	3.6	3.8	4.2	3.7	0.5
LPG	3.9	4.2	4.3	5.4	8.9	14.9	20.1	23.1	23.7	25.4	3.7
Exports	37.0	35.7	33.3	36.8	37.2	46.8	59.4	65.2	69.4	76.9	100.0
Oil	33.7	33.0	30.9	34.5	35.0	44.1	56.6	62.2	66.5	73.7	95.8
Gas	3.4	2.7	2.4	2.3	2.2	2.7	2.8	3.0	2.9	3.2	4.2
Gasoline	5.3	4.2	3.0	4.8	5.2	6.1	10.0	10.8	13.2	16.8	21.8
Diesel	4.7	2.1	1.9	2.8	4.2	7.3	15.7	17.5	18.8	21.7	28.3
Heating Oil	9.9	12.3	11.6	11.3	9.5	10.5	9.9	11.1	12.3	11.2	14.5
Aviation Jet	6.2	6.7	7.7	9.5	11.0	12.7	13.5	13.5	15.0	18.1	23.5
LPG	1.1	1.4	1.5	1.5	1.7	1.7	1.6	1.6	1.4	1.7	2.2
CO₂ Emissions (Million tons CO₂)	7,799.4	8,489.0	8,749.9	9,162.8	9,091.1	9,082.7	9,040.2	9,200.4	9,463.4	9,729.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	573.1	569.5	544.2	528.9	489.0	457.1	426.4	405.9	391.1	378.9	-
Final energy intensity (toe/million \$15ppp)	120.6	116.3	112.0	107.6	101.6	96.7	91.0	86.2	83.9	81.4	-
Total energy intensity (toe/million \$15ppp)	186.4	182.6	175.4	168.1	159.6	150.7	140.4	135.4	131.6	127.9	-

*Heat is included

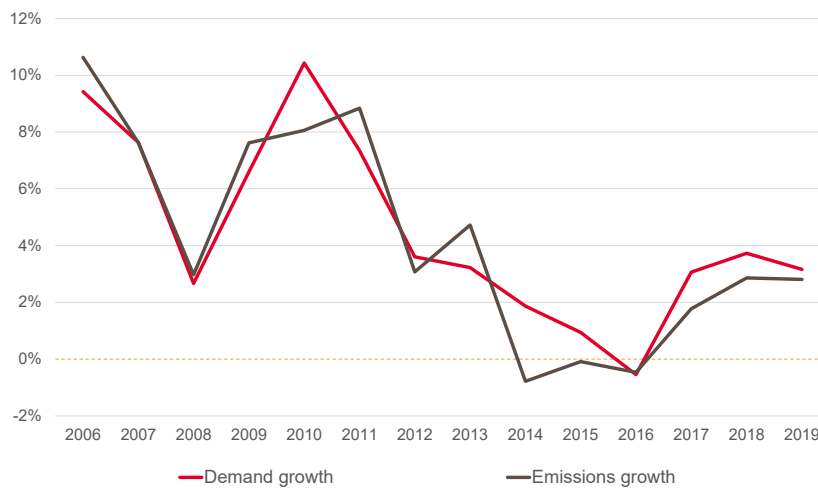
Primary energy demand mix



Electricity generation by source



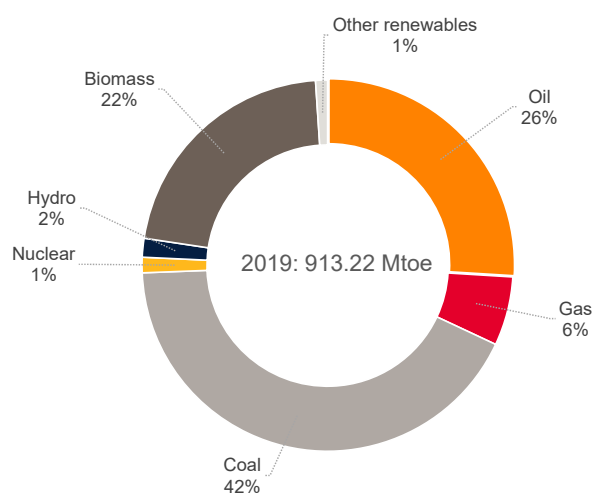
Primary energy demand and CO₂ emissions growth



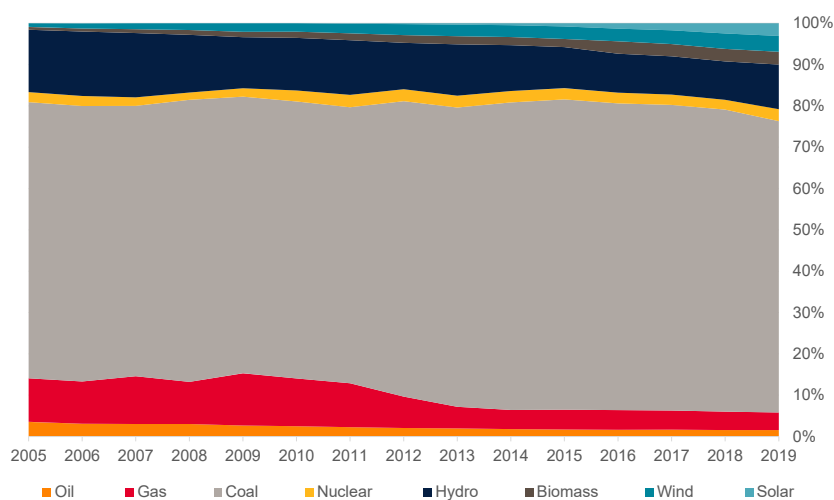
India (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	700.8	733.8	766.5	779.1	822.5	835.4	852.8	881.9	906.3	913.2	100.0
Oil	162.1	166.2	177.2	176.4	184.3	206.4	216.7	223.3	230.3	236.9	25.9
Gas	54.4	55.0	48.9	44.4	44.0	45.1	48.0	51.0	52.4	54.8	6.0
Coal	279.0	295.1	326.3	344.9	384.1	377.2	372.3	390.9	400.4	386.8	42.4
Nuclear	6.8	8.4	8.6	8.9	9.4	9.8	9.9	10.0	9.9	12.2	1.3
Hydro	10.7	12.2	10.9	12.8	12.3	11.7	11.8	12.2	12.9	15.0	1.6
Biomass	185.2	193.8	191.0	187.7	184.1	180.0	188.0	187.1	191.0	196.9	21.6
Other renewables	1.7	2.2	2.8	3.2	3.7	4.5	5.5	6.6	8.6	9.6	1.0
Electricity balance of trade*	0.8	0.8	0.9	0.8	0.6	0.7	0.6	0.7	0.9	0.9	0.1
Total final consumption, by source	492.2	518.1	522.9	532.7	550.4	565.6	582.0	604.4	623.8	633.9	100.0
Oil	135.0	142.1	149.8	150.9	157.9	175.6	184.5	195.5	201.6	207.9	32.8
Gas	27.2	28.3	27.9	29.6	29.8	31.0	33.1	35.9	37.0	39.9	6.3
Coal	95.1	100.9	98.5	107.0	113.5	108.9	109.3	114.9	119.7	115.3	18.2
Electricity	62.5	67.9	71.7	74.9	83.5	89.0	95.2	100.1	105.2	105.5	16.6
Heat	0.3	0.4	0.5	0.4	0.6	0.7	0.7	0.8	1.0	1.1	0.2
Biomass	172.0	178.7	174.3	169.9	165.1	160.5	159.1	157.2	159.2	164.1	25.9
Electricity generation, by source	84.4	92.4	96.8	102.6	111.3	118.2	125.3	131.8	138.4	138.8	100.0
Oil	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.2	1.6
Gas	9.7	9.8	7.4	5.4	5.2	5.7	6.0	6.1	6.2	5.9	4.2
Coal	56.6	61.7	69.2	74.3	82.9	88.8	93.0	97.5	101.2	97.9	70.5
Nuclear	2.3	2.8	2.8	2.9	3.1	3.2	3.3	3.3	3.3	4.0	2.9
Hydro	10.7	12.2	10.9	12.8	12.3	11.7	11.8	12.2	12.9	15.0	10.8
Biomass	1.3	1.5	1.8	2.0	2.2	2.3	3.7	3.9	4.2	4.3	3.1
Wind	1.7	2.1	2.6	2.9	3.2	3.6	3.8	4.4	5.2	5.3	3.8
Solar	0.0	0.1	0.2	0.4	0.5	0.9	1.6	2.2	3.4	4.3	3.1
Other renewables	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	492.2	518.1	522.9	532.7	550.4	565.6	582.0	604.4	623.8	633.9	100.0
Industry	164.4	174.0	170.2	181.2	194.0	194.6	202.4	215.3	222.1	220.4	34.8
Transport	64.8	70.2	74.2	76.0	79.2	86.7	90.8	97.8	102.6	106.4	16.8
Residential/Commercial	197.1	207.0	203.9	201.7	201.4	202.5	205.0	205.1	211.2	217.3	34.3
Oil final consumption, by sector	135.0	142.1	149.8	150.9	157.9	175.6	184.5	195.5	201.6	207.9	100.0
Industry	13.5	13.5	15.4	15.4	17.8	22.5	26.5	28.2	27.7	27.9	13.4
Transport	62.2	67.0	71.1	72.7	75.8	83.0	86.7	93.8	98.4	102.1	49.1
Residential/Commercial	24.4	24.8	24.5	25.0	26.7	28.2	29.0	29.4	31.4	33.4	16.1
Natural gas final consumption, by sector	27.2	28.3	27.9	29.6	29.8	31.0	33.1	35.9	37.0	39.9	100.0
Industry	11.0	8.8	6.5	7.3	7.5	6.9	8.9	12.0	12.4	13.4	33.6
Transport	1.4	1.8	1.6	1.7	1.8	2.0	2.2	2.4	2.5	2.7	6.7
Residential/Commercial	1.1	1.7	1.6	1.5	1.5	1.5	1.6	1.7	1.8	1.9	4.7
Refined products consumption	135.0	142.1	149.8	150.9	157.9	175.6	184.5	195.5	201.6	207.9	100.0
Gasoline	15.2	16.0	16.8	18.3	20.4	23.4	25.4	28.0	30.3	32.9	15.8
Diesel	56.9	61.2	65.1	64.1	65.3	69.6	71.0	75.8	78.3	79.6	38.3
Heating Oil	9.1	7.9	6.4	5.2	5.1	5.9	6.5	6.2	6.0	5.7	2.7
Aviation Jet	2.2	2.5	2.4	2.6	2.8	3.1	3.6	4.1	4.5	4.4	2.1
LPG	16.2	17.3	17.6	18.4	20.3	22.2	24.4	26.4	28.1	30.6	14.7
Imports	196.4	207.9	220.9	225.5	231.1	254.7	275.2	283.9	289.4	301.1	100.0
Oil	184.9	191.8	205.3	210.1	214.5	235.7	253.1	259.5	263.9	272.0	90.4
Gas	11.4	16.0	15.6	15.4	16.6	19.0	22.1	24.4	25.5	29.0	9.6
Gasoline	1.8	0.7	0.2	0.3	0.4	1.1	0.5	0.2	0.7	2.2	0.7
Diesel	2.1	1.1	0.5	0.1	0.1	0.2	1.0	1.4	0.6	3.5	1.2
Heating Oil	1.0	1.2	1.0	1.3	0.9	1.1	0.9	1.2	1.4	2.2	0.7
Aviation Jet	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.3	0.3	0.1	0.0
LPG	5.1	6.5	7.1	7.4	9.4	10.1	12.5	12.9	14.9	17.8	5.9
Exports	61.4	65.2	67.3	71.7	68.6	65.2	70.6	71.8	65.7	66.6	100.0
Oil	61.4	65.2	67.3	71.7	68.6	65.2	70.6	71.8	65.7	66.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	14.5	15.5	17.8	16.3	17.2	18.0	16.5	15.0	13.8	13.4	20.2
Diesel	21.1	21.2	23.2	27.4	26.4	24.9	28.2	30.7	28.7	30.8	46.3
Heating Oil	6.5	7.6	5.7	5.9	4.6	2.7	2.2	2.4	2.1	1.6	2.4
Aviation Jet	4.8	4.9	5.0	6.1	5.9	6.1	7.7	7.7	7.9	7.6	11.4
LPG	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.4	0.5	0.5	0.8
CO₂ Emissions (Million tons CO₂)	1,583.1	1,669.9	1,810.5	1,853.4	2,015.3	2,026.3	2,050.3	2,157.8	2,247.6	2,222.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	269.8	270.4	278.0	267.5	270.8	252.1	235.9	231.6	227.4	215.7	-
Final energy intensity (toe/million \$15ppp)	77.6	77.3	73.4	70.4	68.0	64.1	61.2	59.6	58.1	56.5	-
Total energy intensity (toe/million \$15ppp)	119.4	118.8	117.7	112.5	110.5	104.0	98.1	94.7	91.7	88.6	-

*Heat is included

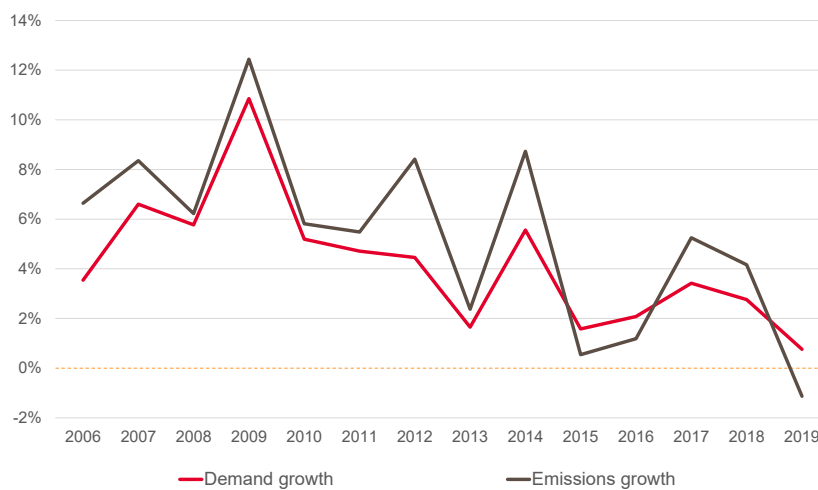
Primary energy mix



Electricity generation by source



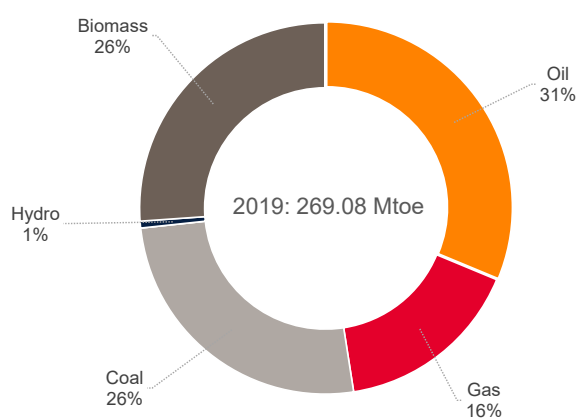
Primary energy demand and CO₂ emissions growth



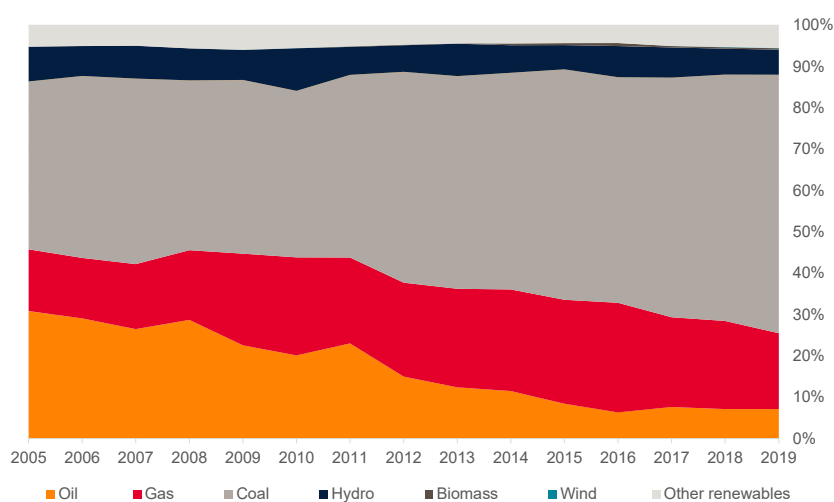
Indonesia (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	206.3	198.3	208.2	213.0	224.3	224.7	229.6	244.0	259.9	269.1	100.0
Oil	67.4	66.5	72.4	74.0	74.7	70.9	69.6	75.6	75.8	75.8	28.2
Gas	38.8	35.6	35.0	36.5	36.6	37.9	39.1	38.9	40.8	39.5	14.7
Coal	31.8	26.9	28.5	28.8	37.2	41.0	43.3	48.4	57.4	62.5	23.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.1	1.1	1.5	1.3	1.2	1.6	1.6	1.4	1.5	0.5
Biomass	50.6	52.1	54.9	56.0	57.2	56.5	57.6	57.5	60.3	63.3	23.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	16.1	16.1	16.2	16.2	17.3	17.3	18.4	22.0	24.2	26.5	9.8
Total final consumption, by source	141.4	148.8	163.0	164.6	169.5	167.9	165.0	173.7	184.2	194.3	100.0
Oil	55.0	61.9	72.1	71.1	71.5	68.6	66.7	72.5	72.9	77.9	40.1
Gas	15.9	16.7	17.3	17.3	17.1	17.0	13.9	14.7	16.8	17.0	8.7
Coal	8.0	5.1	4.5	4.9	7.6	9.6	9.5	11.1	16.8	18.0	9.3
Electricity	12.7	13.7	15.1	16.1	17.1	17.4	18.6	19.2	20.2	21.1	10.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	49.9	51.3	54.1	55.2	56.2	55.2	56.3	56.1	57.5	60.3	31.0
Electricity generation, by source	14.6	15.8	17.2	18.6	19.6	20.1	21.3	21.9	23.0	24.0	100.0
Oil	2.9	3.6	2.6	2.3	2.2	1.7	1.4	1.7	1.6	1.7	7.1
Gas	3.5	3.3	3.9	4.4	4.8	5.1	5.7	4.8	4.9	4.4	18.4
Coal	5.9	7.0	8.8	9.6	10.3	11.2	11.6	12.7	13.7	15.0	62.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.1	1.1	1.5	1.3	1.2	1.6	1.6	1.4	1.5	6.1
Biomass	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.3
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.2	1.3	5.5
Total final consumption, by sector	141.4	148.8	163.0	164.6	169.5	167.9	165.0	173.7	184.2	194.3	100.0
Industry	39.9	39.5	40.0	39.5	43.3	46.3	38.7	45.0	52.0	54.7	28.2
Transport	30.1	36.6	43.8	46.3	47.0	41.7	46.9	49.3	52.1	56.4	29.0
Residential/Commercial	58.6	60.7	64.9	66.6	68.1	68.7	69.1	70.3	71.3	74.1	38.1
Oil final consumption, by sector	55.0	61.9	72.1	71.1	71.5	68.6	66.7	72.5	72.9	77.9	100.0
Industry	9.4	10.7	11.1	9.5	10.5	11.9	7.4	10.2	9.5	10.2	13.2
Transport	30.0	36.3	43.3	45.5	45.7	41.2	44.8	47.5	48.9	52.9	67.9
Residential/Commercial	7.0	7.1	7.7	8.2	8.4	8.7	8.4	9.1	9.5	9.5	12.1
Natural gas final consumption, by sector	15.9	16.7	17.3	17.3	17.1	17.0	13.9	14.7	16.8	17.0	100.0
Industry	11.8	12.5	13.0	13.1	12.9	12.7	9.8	11.3	13.1	13.2	77.8
Transport	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.1
Refined products consumption	51.5	61.3	69.4	70.1	70.4	67.5	65.4	71.3	71.6	76.6	100.0
Gasoline	18.3	20.3	22.4	24.1	24.4	24.9	25.7	26.5	27.2	28.7	37.4
Diesel	16.2	22.5	29.8	29.7	28.5	25.5	22.8	25.3	23.8	26.6	34.8
Heating Oil	3.2	3.4	3.1	1.8	1.7	1.5	1.8	1.9	2.0	1.9	2.5
Aviation Jet	1.7	1.8	2.0	2.2	2.2	2.3	2.6	2.9	3.1	3.5	4.5
LPG	4.2	4.9	5.7	6.3	6.9	7.2	7.5	8.1	8.5	8.7	11.3
Imports	41.6	44.1	48.6	53.1	55.4	51.9	49.2	54.6	49.1	39.6	100.0
Oil	41.6	44.1	48.6	53.1	55.4	51.9	49.2	54.6	49.1	39.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	10.0	12.3	14.1	14.7	15.4	14.4	12.4	13.9	14.5	15.2	38.5
Diesel	9.3	8.5	10.9	10.4	10.0	6.4	5.0	6.0	5.7	2.7	6.8
Heating Oil	0.5	0.9	0.4	0.1	0.2	0.1	0.3	0.6	0.8	0.4	1.1
Aviation Jet	0.5	0.7	0.6	0.8	0.8	1.0	0.8	1.6	0.7	0.1	0.3
LPG	1.8	2.3	2.9	3.7	4.1	4.8	5.1	6.2	6.3	6.5	16.4
Exports	57.2	58.0	52.1	50.6	49.1	47.3	46.4	41.2	35.1	24.8	100.0
Oil	21.2	22.5	19.8	20.4	20.0	19.7	20.9	17.5	12.9	7.0	28.2
Gas	36.0	35.4	32.3	30.2	29.1	27.6	25.5	23.8	22.2	17.8	71.8
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	4.3	4.3	3.8	4.2	4.3	3.8	3.9	3.5	2.8	3.4	13.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	376.5	401.1	432.0	429.5	468.3	470.4	466.1	506.6	546.8	581.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	172.3	173.0	175.7	165.5	171.8	164.5	155.2	160.6	164.8	166.7	-
Final energy intensity (toe/million \$15ppp)	60.1	60.4	62.1	60.2	59.3	56.2	52.4	53.0	53.5	53.8	-
Total energy intensity (toe/million \$15ppp)	94.4	85.5	84.7	82.0	82.3	78.6	76.5	77.4	78.4	77.2	-

*Heat is included

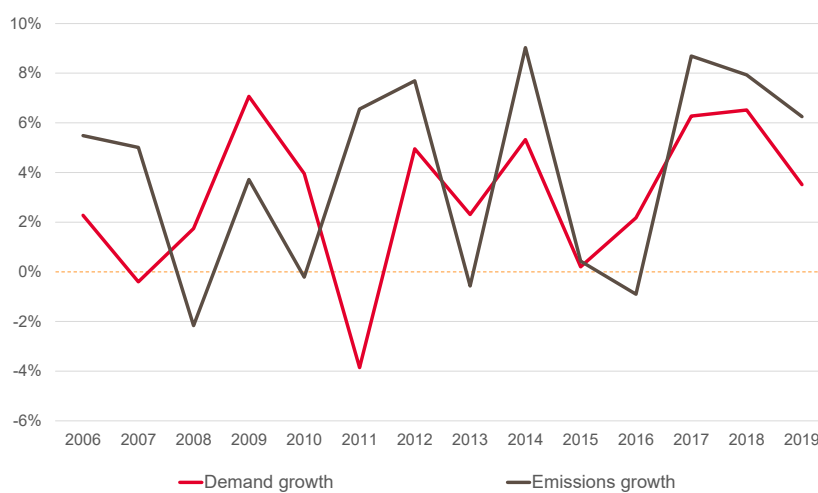
Primary energy demand mix



Electricity generation by source



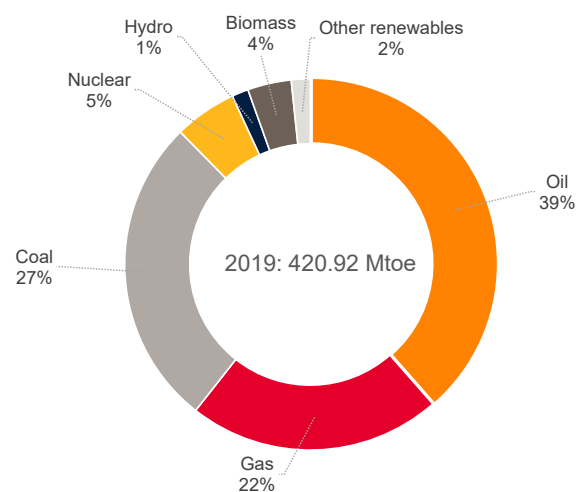
Primary energy demand and CO₂ emissions growth



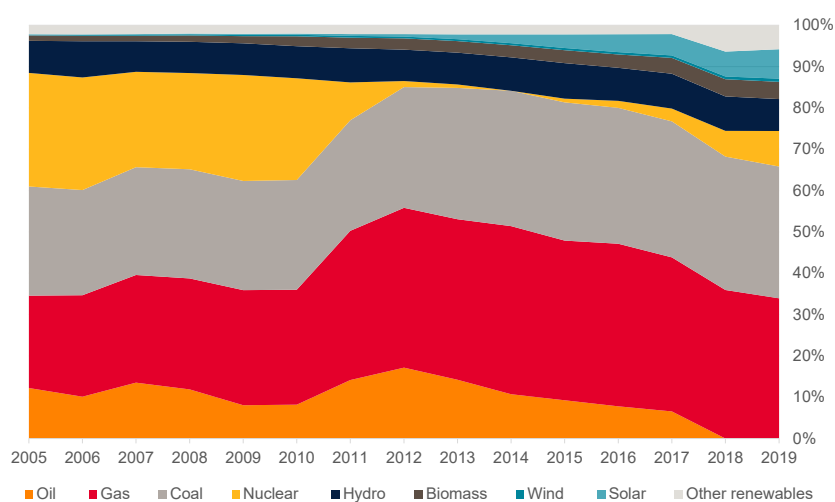
Japan (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	503.2	465.7	455.8	456.5	441.6	433.9	429.0	433.8	427.7	420.9	100.0
Oil	202.7	206.8	209.7	200.6	190.4	183.7	176.9	176.0	167.3	160.4	38.1
Gas	85.9	99.7	104.9	105.1	106.6	100.2	101.7	100.9	96.5	91.9	21.8
Coal	115.4	107.9	112.8	122.5	117.8	119.1	116.4	116.5	114.1	112.6	26.7
Nuclear	75.1	26.5	4.2	2.4	0.0	2.5	4.7	8.6	17.0	22.7	5.4
Hydro	7.2	7.3	6.6	6.8	7.2	7.5	6.8	7.1	6.9	6.0	1.4
Biomass	11.6	12.0	12.1	13.0	12.8	13.1	13.8	15.2	15.8	15.8	3.8
Other renewables	0.7	0.8	1.0	1.6	2.4	3.5	4.5	5.3	6.1	6.9	1.6
Electricity balance of trade*	4.6	4.6	4.5	4.6	4.5	4.4	4.3	4.2	4.1	4.7	1.1
Total final consumption, by source	332.6	325.7	324.0	326.4	317.6	313.2	309.7	312.5	306.3	299.4	100.0
Oil	164.3	160.8	159.6	161.1	155.1	153.8	150.7	151.1	147.4	144.0	48.1
Gas	28.9	29.8	29.3	28.7	28.4	28.6	28.6	29.9	28.6	27.9	9.3
Coal	43.6	42.4	43.0	44.4	43.6	42.2	41.7	41.6	42.1	42.5	14.2
Electricity	89.0	85.7	85.3	85.1	83.7	81.7	81.7	82.9	81.3	77.7	26.0
Heat	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.3
Biomass	5.6	5.9	5.8	6.2	5.9	6.0	6.1	6.2	6.2	6.5	2.2
Electricity generation, by source	100.7	95.5	94.5	95.0	92.5	91.1	91.2	91.9	90.2	87.1	100.0
Oil	8.2	13.5	16.2	13.5	9.9	8.4	7.1	6.0	n.d.	n.d.	#\VALOR!
Gas	28.0	34.5	36.6	36.9	37.7	35.2	35.9	34.2	32.4	29.5	33.9
Coal	26.7	25.6	27.6	30.2	30.3	30.4	30.0	30.3	29.1	27.8	31.9
Nuclear	24.8	8.8	1.4	0.8	0.0	0.8	1.6	2.8	5.6	7.5	8.6
Hydro	7.8	7.9	7.2	7.3	7.5	7.8	7.3	7.8	7.5	6.7	7.7
Biomass	2.4	2.5	2.6	2.7	2.7	2.9	2.9	3.5	3.8	3.6	4.2
Wind	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
Solar	0.3	0.4	0.6	1.1	2.0	3.0	3.9	4.7	5.5	6.2	7.1
Other renewables	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	5.7	5.1	5.8
Total final consumption, by sector	332.6	325.7	324.0	326.4	317.6	313.2	309.7	312.5	306.3	299.4	100.0
Industry	104.2	103.9	103.2	103.9	101.4	97.7	97.7	97.6	97.0	95.7	32.0
Transport	77.1	74.9	74.8	74.8	73.4	73.1	72.3	71.4	70.4	69.5	23.2
Residential/Commercial	100.8	99.3	98.3	98.4	95.4	92.5	92.2	94.8	91.8	88.7	29.6
Oil final consumption, by sector	164.3	160.8	159.6	161.1	155.1	153.8	150.7	151.1	147.4	144.0	100.0
Industry	14.3	15.9	14.8	14.0	13.2	11.7	12.3	11.7	11.2	10.9	7.6
Transport	75.3	73.1	73.0	73.0	71.5	71.2	70.4	69.5	68.5	67.5	46.9
Residential/Commercial	26.0	26.1	25.7	26.5	24.7	22.6	22.2	22.8	22.1	21.5	15.0
Natural gas final consumption, by sector	28.9	29.8	29.3	28.7	28.4	28.6	28.6	29.9	28.6	27.9	100.0
Industry	10.9	11.5	11.4	11.2	11.0	11.0	11.2	11.3	11.3	11.0	39.5
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2
Residential/Commercial	17.6	17.9	17.5	17.0	17.0	17.4	17.1	18.2	17.0	16.6	59.5
Refined products consumption	163.8	160.4	159.1	160.8	154.8	153.5	150.6	150.8	147.1	143.7	100.0
Gasoline	42.6	42.3	42.7	42.1	40.5	40.2	39.9	39.3	38.4	37.3	25.9
Diesel	40.3	39.7	39.2	39.8	38.5	38.3	37.9	38.0	38.0	38.1	26.5
Heating Oil	6.5	6.6	6.1	5.6	5.1	4.5	5.3	5.1	5.1	5.4	3.8
Aviation Jet	4.3	3.5	3.3	4.2	4.4	4.5	4.4	4.2	4.1	4.2	2.9
LPG	13.5	13.9	13.9	14.4	14.0	12.4	11.7	11.8	11.1	10.2	7.1
Imports	312.1	327.8	335.8	329.4	317.2	308.8	303.5	301.6	289.9	274.5	100.0
Oil	229.5	230.4	234.1	226.7	212.9	211.0	204.3	203.4	195.6	186.6	68.0
Gas	82.6	97.4	101.7	102.7	104.3	97.8	99.2	98.2	94.3	87.9	32.0
Gasoline	0.9	2.3	2.3	1.3	1.2	0.9	0.7	1.0	1.7	1.9	0.7
Diesel	0.5	0.8	0.6	0.3	0.6	0.5	0.4	0.5	0.7	0.7	0.2
Heating Oil	3.2	7.0	8.7	6.4	4.5	3.2	2.3	2.2	1.8	0.6	0.2
Aviation Jet	0.3	1.1	1.3	0.8	0.5	0.7	0.7	1.3	1.1	1.0	0.4
LPG	14.3	14.4	15.1	13.7	13.3	12.4	12.0	12.2	12.4	12.2	4.5
Exports	17.5	13.9	13.0	17.0	15.8	18.5	18.5	17.7	17.9	19.2	100.0
Oil	17.5	13.9	13.0	17.0	15.8	18.5	18.5	17.7	17.9	19.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.7	1.0	0.9	1.4	2.4	3.1	2.4	3.0	2.6	2.7	14.1
Diesel	10.0	6.8	6.1	9.2	7.8	8.8	8.3	8.7	8.1	8.6	44.7
Heating Oil	2.5	2.6	2.7	1.9	1.7	2.2	3.1	2.5	2.6	2.5	13.0
Aviation Jet	2.2	2.1	2.3	2.9	2.4	2.8	2.9	2.2	2.4	2.7	13.8
LPG	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
CO₂ Emissions (Million tons CO₂)	1,103.7	1,160.8	1,204.2	1,210.6	1,171.2	1,135.4	1,127.1	1,112.0	1,082.2	1,045.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	225.8	237.7	243.0	239.5	230.8	220.8	217.2	210.6	204.3	196.0	-
Final energy intensity (toe/million \$15ppp)	58.9	58.1	56.8	55.8	54.2	52.3	51.6	51.0	50.0	48.6	-
Total energy intensity (toe/million \$15ppp)	102.9	95.4	92.0	90.3	87.0	84.4	82.6	82.1	80.7	78.9	-

*Heat is included

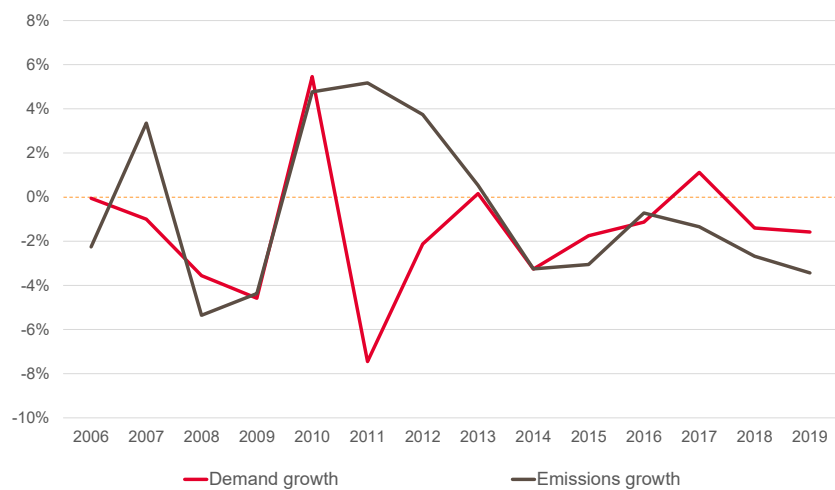
Primary energy demand mix



Electricity generation by source



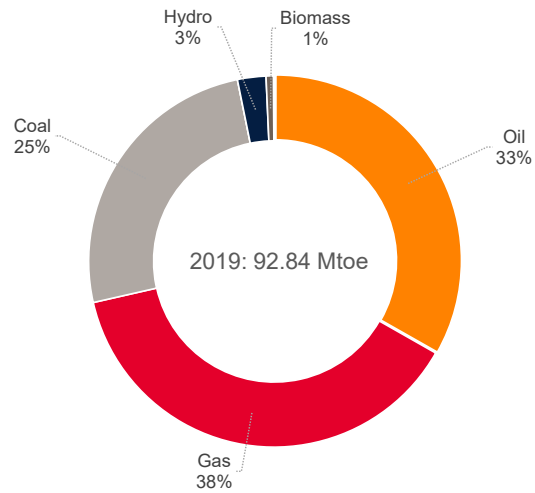
Primary energy demand and CO₂ emissions growth



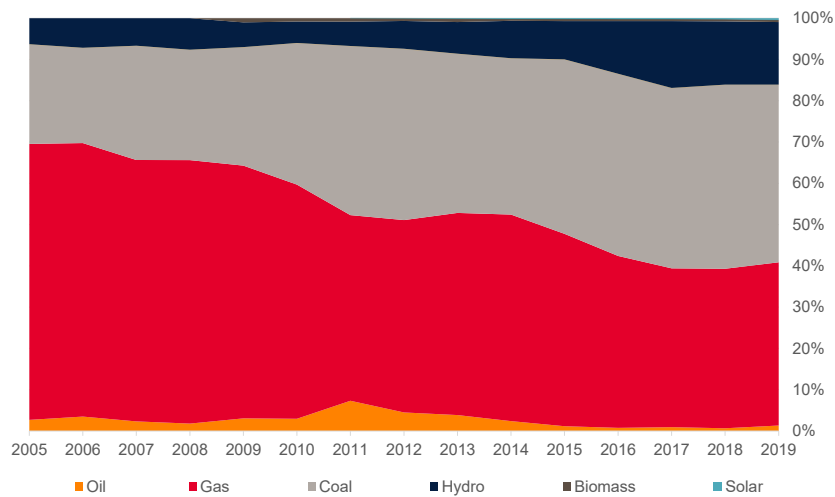
Malaysia (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	73.4	76.1	77.5	87.3	89.0	85.1	88.3	85.3	89.1	92.8	100.0
Oil	26.2	27.4	27.8	32.2	33.6	28.1	31.3	29.6	30.3	30.9	33.3
Gas	31.2	31.6	32.4	38.1	38.4	37.5	35.8	32.2	33.4	35.6	38.3
Coal	14.6	15.6	15.8	15.3	15.3	17.5	18.8	20.7	22.7	23.6	25.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.7	0.8	0.9	1.2	1.2	1.7	2.3	2.3	2.3	2.5
Biomass	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electricity balance of trade*	-0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.2
Total final consumption, by source	41.7	43.7	46.7	53.0	52.1	50.7	55.1	60.6	62.5	64.4	100.0
Oil	24.0	23.6	24.2	28.2	29.4	27.6	28.3	29.0	29.9	30.1	46.7
Gas	6.3	8.6	10.2	12.0	9.6	9.6	12.3	16.8	17.4	18.6	28.9
Coal	1.8	1.8	1.7	1.5	1.7	1.8	1.8	1.8	1.9	2.0	3.1
Electricity	9.5	9.6	10.4	11.0	11.0	11.4	12.4	12.6	13.0	13.3	20.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.6
Electricity generation, by source	10.7	11.1	11.6	11.9	12.7	12.9	13.5	14.1	14.7	15.2	100.0
Oil	0.3	0.8	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.2	1.3
Gas	6.1	5.0	5.4	5.8	6.3	6.0	5.6	5.4	5.7	6.0	39.5
Coal	3.7	4.6	4.8	4.6	4.8	5.5	5.9	6.2	6.6	6.5	43.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.7	0.8	0.9	1.2	1.2	1.7	2.3	2.3	2.3	15.2
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
Other renewables	0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	41.7	43.7	46.7	53.0	52.1	50.7	55.1	60.6	62.5	64.4	100.0
Industry	14.8	14.1	15.6	15.0	14.8	15.0	16.2	17.6	18.3	19.0	29.6
Transport	15.0	15.2	15.4	20.2	22.6	21.3	21.7	21.1	21.9	22.1	34.2
Residential/Commercial	7.1	7.1	7.2	7.5	7.5	7.6	8.1	8.3	8.5	8.7	13.5
Oil final consumption, by sector	24.0	23.6	24.2	28.2	29.4	27.6	28.3	29.0	29.9	30.1	100.0
Industry	4.2	3.6	4.4	3.8	3.1	3.2	2.6	2.8	2.9	2.9	9.5
Transport	14.7	14.9	15.0	19.7	22.0	20.6	21.1	20.6	21.3	21.5	71.4
Residential/Commercial	2.0	1.8	1.6	1.7	1.5	1.5	1.5	1.9	2.0	2.0	6.7
Natural gas final consumption, by sector	6.3	8.6	10.2	12.0	9.6	9.6	12.3	16.8	17.4	18.6	100.0
Industry	4.3	4.3	4.6	4.5	4.9	4.8	6.0	6.8	7.0	7.5	40.5
Transport	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.9
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Refined products consumption	24.0	23.6	24.2	28.2	29.4	27.6	28.3	29.0	29.9	30.1	100.0
Gasoline	9.6	8.2	8.9	12.7	12.7	12.8	13.4	13.4	14.3	14.3	47.6
Diesel	8.4	8.7	8.8	9.6	10.6	9.4	9.3	9.7	9.6	9.7	32.2
Heating Oil	0.5	0.4	0.8	0.3	0.3	0.7	0.5	0.6	0.5	0.5	1.7
Aviation Jet	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	2.4
LPG	2.9	2.9	2.9	2.9	2.6	2.3	3.5	3.5	3.7	3.8	12.6
Imports	25.5	27.9	30.8	37.1	37.8	30.5	33.1	30.5	29.4	33.3	100.0
Oil	18.5	20.9	22.9	28.6	29.3	22.7	26.2	23.5	22.7	24.2	72.7
Gas	7.0	7.0	7.9	8.5	8.5	7.8	6.8	7.0	6.6	9.1	27.3
Gasoline	4.3	4.2	5.9	8.8	8.3	7.6	8.6	5.1	5.1	4.2	12.6
Diesel	3.2	3.8	3.5	5.1	6.2	4.6	3.9	5.2	5.5	5.4	16.3
Heating Oil	1.2	1.5	0.8	3.0	3.1	1.0	0.1	0.2	0.2	0.1	0.4
Aviation Jet	0.4	0.5	0.3	0.9	0.5	0.5	1.4	1.2	0.6	0.9	2.7
LPG	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.4	0.6	0.5	1.4
Exports	52.5	48.9	53.0	51.4	52.5	54.5	57.2	56.9	54.6	52.7	100.0
Oil	25.7	21.0	26.1	22.8	23.5	26.3	28.9	26.0	26.8	23.2	43.9
Gas	26.8	28.0	26.9	28.6	29.0	28.1	28.3	30.9	27.9	29.5	56.1
Gasoline	0.0	0.0	2.1	0.1	0.0	0.4	0.5	0.3	0.2	0.2	0.4
Diesel	2.5	4.4	5.3	5.3	5.3	5.4	4.8	5.1	5.4	5.6	10.7
Heating Oil	0.9	0.3	1.0	3.0	4.3	1.4	0.6	0.6	0.7	0.6	1.2
Aviation Jet	0.7	0.7	1.0	0.6	0.5	0.5	1.1	1.3	0.7	0.7	1.3
LPG	0.7	1.0	0.4	0.3	0.3	0.3	0.4	0.2	0.3	0.2	0.5
CO₂ Emissions (Million tons CO₂)	194.8	199.8	203.2	222.1	228.9	228.5	227.5	228.2	237.4	243.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	307.4	299.5	288.8	301.4	293.1	278.4	266.0	251.9	250.2	246.1	-
Final energy intensity (toe/million \$15ppp)	60.0	55.9	55.7	59.4	58.8	54.6	54.2	53.1	52.4	51.3	-
Total energy intensity (toe/million \$15ppp)	115.8	114.1	110.1	118.5	114.0	103.6	103.2	94.2	93.9	93.8	-

*Heat is included

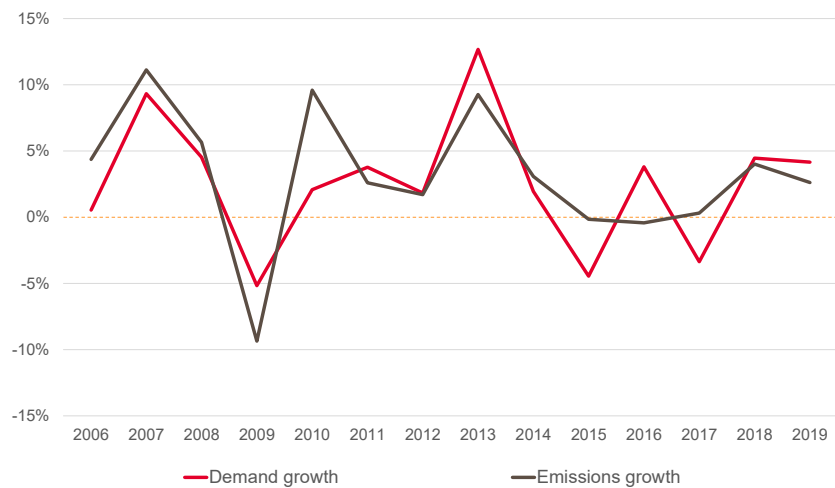
Primary energy demand mix



Electricity generation by source



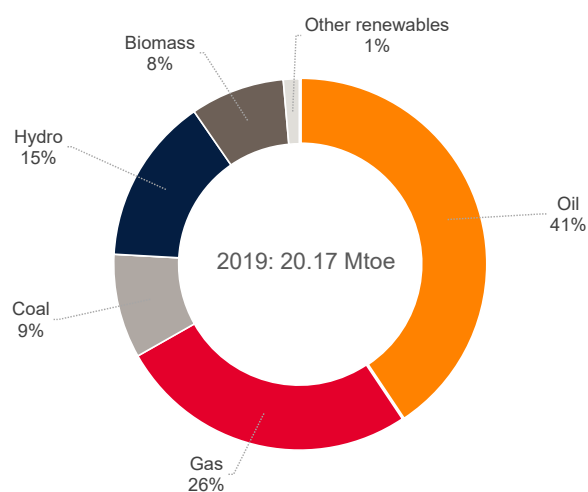
Primary energy demand and CO₂ emissions growth



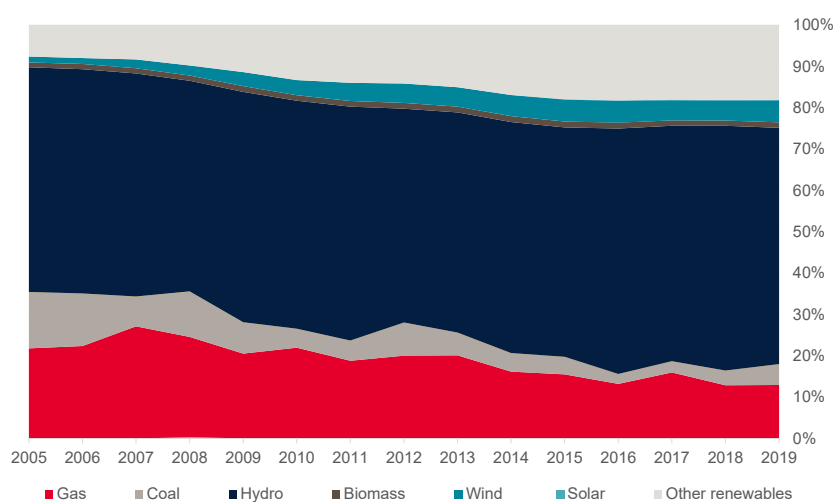
New Zealand (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	18.6	18.5	19.4	19.5	20.7	20.8	20.6	20.7	20.3	20.2	100.0
Oil	6.2	6.1	6.5	6.4	6.5	6.8	6.7	6.8	6.7	6.2	30.5
Gas	3.7	3.4	3.8	4.0	4.4	4.1	4.2	4.2	3.7	4.0	19.7
Coal	1.3	1.4	1.6	1.4	1.4	1.4	1.2	1.2	1.2	1.4	6.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.2	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	10.9
Biomass	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	6.2
Other renewables	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0
Electricity balance of trade*	3.9	4.0	4.1	4.4	4.9	5.1	4.9	4.9	5.0	5.0	24.9
Total final consumption, by source	13.3	13.2	13.3	13.7	14.6	14.5	14.8	15.0	14.7	15.2	100.0
Oil	5.9	5.9	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.8	44.8
Gas	1.8	1.7	1.9	2.3	3.0	2.7	2.9	2.8	2.5	2.8	18.4
Coal	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	6.1
Electricity	3.4	3.4	3.4	3.3	3.4	3.4	3.3	3.3	3.4	3.4	22.4
Heat	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.3
Biomass	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.1	1.1	7.0
Electricity generation, by source	3.9	3.8	3.8	3.7	3.7	3.8	3.8	3.8	3.8	3.8	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	0.8	0.7	0.8	0.7	0.6	0.6	0.5	0.6	0.5	0.5	12.9
Coal	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	5.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.2	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	57.2
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	1.3
Wind	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Other renewables	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	18.0
Total final consumption, by sector	13.3	13.2	13.3	13.7	14.6	14.5	14.8	15.0	14.7	15.2	100.0
Industry	4.4	4.3	4.2	4.4	4.8	4.7	4.7	4.8	4.7	4.8	31.5
Transport	4.6	4.6	4.5	4.6	4.6	4.8	4.9	5.3	5.4	5.4	35.8
Residential/Commercial	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.8	2.8	2.9	19.1
Oil final consumption, by sector	5.9	5.9	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.8	100.0
Industry	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	6.5
Transport	4.6	4.6	4.5	4.6	4.6	4.8	4.9	5.2	5.4	5.4	79.7
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.6
Natural gas final consumption, by sector	1.8	1.7	1.9	2.3	3.0	2.7	2.9	2.8	2.5	2.8	100.0
Industry	0.9	0.9	0.9	1.1	1.4	1.2	1.3	1.3	1.2	1.3	45.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	15.3
Refined products consumption	5.9	5.9	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.8	100.0
Gasoline	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	37.7
Diesel	2.5	2.6	2.6	2.7	2.8	2.9	2.9	3.1	3.2	3.3	48.7
Heating Oil	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5
Aviation Jet	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.3	5.0
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.2
Imports	7.1	7.3	7.5	7.6	7.6	7.6	8.2	8.1	8.6	8.3	100.0
Oil	7.1	7.3	7.5	7.6	7.6	7.6	8.2	8.1	8.6	8.3	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.0	1.0	1.2	1.2	1.2	1.1	1.0	1.1	1.1	1.0	12.3
Diesel	0.6	0.7	0.5	0.7	0.8	0.7	1.1	1.0	1.3	1.3	16.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	2.5
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Exports	2.6	2.4	2.1	1.8	2.0	2.0	1.8	1.6	1.4	1.4	100.0
Oil	2.6	2.4	2.1	1.8	2.0	2.0	1.8	1.6	1.4	1.4	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Heating Oil	0.1	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	15.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	30.1	29.4	31.1	31.2	32.1	31.7	31.2	32.7	32.4	32.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	202.5	192.4	198.8	195.2	194.0	183.5	174.9	178.3	170.9	169.3	-
Final energy intensity (toe/million \$15ppp)	83.1	80.4	78.6	78.3	78.6	75.7	73.6	73.5	71.4	71.1	-
Total energy intensity (toe/million \$15ppp)	125.1	121.4	124.0	122.2	125.2	120.6	115.3	112.8	107.0	104.2	-

*Heat is included

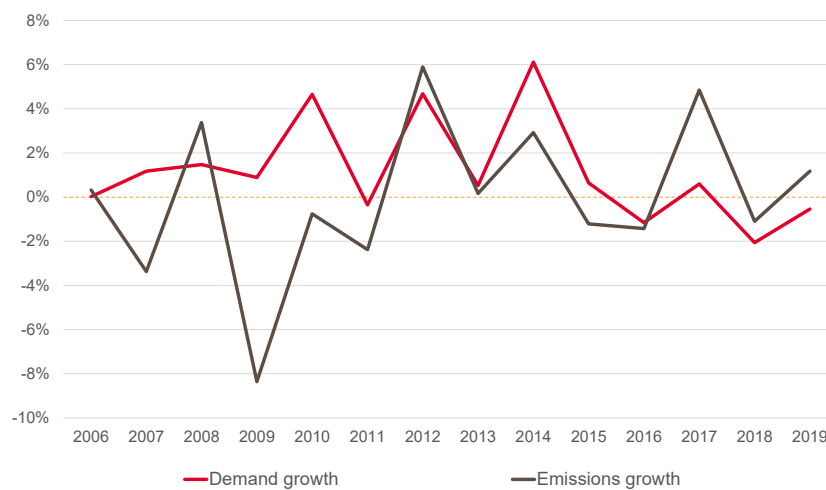
Primary energy demand mix



Electricity generation by source



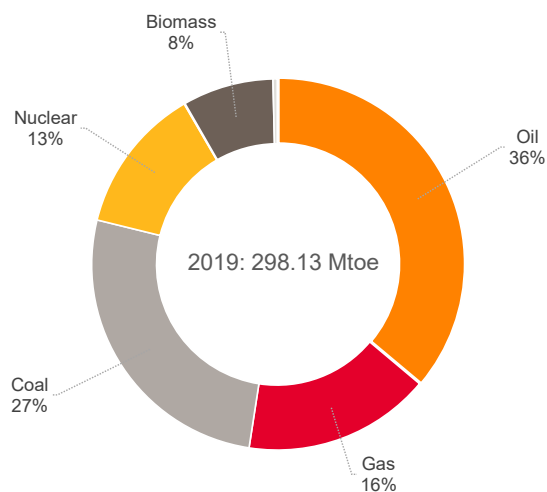
Primary energy demand and CO₂ emissions growth



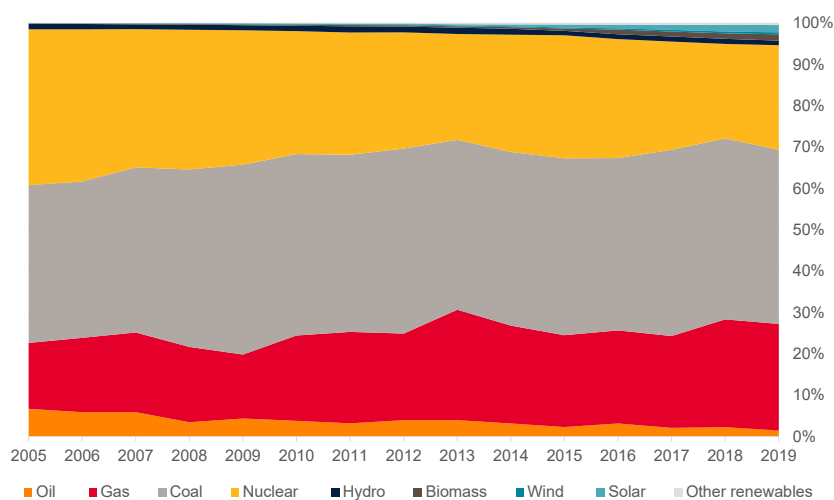
South Korea (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	255.6	266.5	270.5	271.5	276.8	283.0	293.3	295.0	300.6	298.1	100.0
Oil	95.1	93.7	97.2	96.6	96.3	102.7	109.8	109.1	108.3	107.4	36.0
Gas	38.6	41.6	45.0	47.6	43.1	39.3	41.3	43.2	50.2	48.6	16.3
Coal	73.5	80.3	77.1	77.9	81.7	80.8	81.5	82.6	83.1	78.7	26.4
Nuclear	38.7	40.3	39.2	36.2	40.8	42.9	42.2	38.7	34.8	38.0	12.8
Hydro	0.3	0.4	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.1
Biomass	9.0	9.9	11.4	12.4	14.0	16.2	17.4	20.0	22.5	23.5	7.9
Other renewables	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.1	0.4
Electricity balance of trade*	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.2
Total final consumption, by source	171.7	177.6	182.8	185.6	187.9	193.7	199.7	206.0	210.1	209.1	100.0
Oil	81.9	82.1	84.4	84.6	86.5	90.3	94.1	97.4	96.6	97.1	46.4
Gas	20.5	21.5	22.7	24.1	22.2	20.5	21.5	22.2	23.8	22.8	10.9
Coal	18.1	20.2	19.8	19.6	20.1	21.0	19.5	18.6	18.2	17.9	8.6
Electricity	38.6	40.5	41.4	41.9	41.9	42.6	44.5	45.0	46.6	46.1	22.1
Heat	4.4	4.6	4.4	4.4	4.7	4.5	5.0	5.3	5.8	5.6	2.7
Biomass	8.2	8.8	10.1	11.0	12.5	14.8	15.2	17.5	19.0	19.5	9.3
Electricity generation, by source	43.0	45.0	46.0	46.6	47.4	47.5	48.4	48.8	50.3	49.5	100.0
Oil	1.6	1.4	1.8	1.8	1.5	1.1	1.5	1.0	1.1	0.7	1.5
Gas	8.9	10.0	9.6	12.5	11.2	10.6	10.9	10.8	13.1	12.8	25.8
Coal	18.9	19.3	20.6	19.2	19.9	20.3	20.2	22.0	22.0	20.9	42.2
Nuclear	12.8	13.3	12.9	11.9	13.5	14.2	13.9	12.8	11.5	12.5	25.3
Hydro	0.6	0.7	0.7	0.7	0.7	0.5	0.6	0.6	0.6	0.5	1.1
Biomass	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.7	0.8	1.5
Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.5
Solar	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	0.9	1.8
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4
Total final consumption, by sector	171.7	177.6	182.8	185.6	187.9	193.7	199.7	206.0	210.1	209.1	100.0
Industry	58.4	63.0	63.9	64.0	65.6	67.1	66.2	68.3	71.1	70.5	33.7
Transport	30.4	29.9	30.7	31.9	32.4	34.4	35.4	36.1	36.4	36.8	17.6
Residential/Commercial	41.5	41.6	41.7	42.8	41.1	42.2	45.4	46.4	47.7	46.7	22.3
Oil final consumption, by sector	81.9	82.1	84.4	84.6	86.5	90.3	94.1	97.4	96.6	97.1	100.0
Industry	5.9	5.2	4.1	3.5	3.5	3.4	3.6	3.6	3.6	3.8	3.9
Transport	28.9	28.4	29.1	30.1	30.6	32.6	33.4	34.1	34.1	34.6	35.6
Residential/Commercial	6.9	6.8	6.3	5.7	5.4	6.2	6.4	6.4	6.1	5.9	6.1
Natural gas final consumption, by sector	20.5	21.5	22.7	24.1	22.2	20.5	21.5	22.2	23.8	22.8	100.0
Industry	7.1	8.2	9.2	9.8	8.8	7.4	7.5	7.5	8.5	8.0	35.1
Transport	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.1	5.0
Residential/Commercial	12.4	12.2	12.4	13.1	12.2	11.9	12.8	13.5	14.2	13.7	59.9
Refined products consumption	81.9	82.1	84.4	84.6	86.5	90.3	94.1	97.4	96.6	97.1	100.0
Gasoline	8.6	8.7	8.6	9.2	9.2	9.6	9.9	9.9	9.9	10.3	10.7
Diesel	18.6	18.3	18.9	19.8	20.1	21.7	22.1	22.9	22.6	23.2	23.9
Heating Oil	4.4	3.6	2.6	1.8	1.6	1.7	1.9	1.6	1.5	1.2	1.2
Aviation Jet	0.8	1.0	1.3	1.2	1.5	1.7	1.7	1.8	1.8	1.6	1.7
LPG	9.5	9.1	8.3	8.6	8.3	8.7	9.5	9.2	9.5	10.7	11.0
Imports	193.9	202.8	211.3	213.6	212.4	218.6	229.4	234.5	244.7	236.0	100.0
Oil	154.6	160.9	168.5	165.9	168.3	179.7	189.8	190.9	194.5	189.5	80.3
Gas	39.3	41.9	42.8	47.7	44.0	38.9	39.6	43.6	50.2	46.5	19.7
Gasoline	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0
Diesel	0.3	0.4	0.9	1.4	0.8	0.3	0.3	0.3	0.3	0.2	0.1
Heating Oil	2.7	2.4	4.2	7.1	8.0	7.2	7.2	6.1	6.5	4.8	2.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	7.1	7.3	7.1	6.4	6.1	6.0	8.3	7.2	7.8	9.3	3.9
Exports	45.8	54.9	58.8	56.9	59.0	62.8	64.3	66.8	70.4	69.2	100.0
Oil	45.8	54.9	58.8	56.9	59.0	62.8	64.3	66.8	70.4	69.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	4.9	6.7	7.9	8.0	9.1	9.9	9.5	10.2	10.9	10.9	15.8
Diesel	17.8	21.7	24.1	22.3	23.8	23.5	23.9	24.0	26.0	26.6	38.4
Heating Oil	4.0	5.3	4.3	3.4	2.1	1.6	2.0	2.5	3.9	2.7	3.8
Aviation Jet	9.6	10.9	12.3	12.0	12.6	14.4	14.9	16.1	20.1	17.1	24.7
LPG	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.5	0.6	0.8
CO₂ Emissions (Million tons CO₂)	593.9	625.6	630.8	628.2	624.3	638.4	655.9	665.3	674.5	649.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	377.4	383.4	378.0	365.8	351.8	350.0	349.3	343.8	339.5	320.9	-
Final energy intensity (toe/million \$15ppp)	84.7	84.3	83.5	82.6	79.9	80.2	79.7	79.3	79.4	77.4	-
Total energy intensity (toe/million \$15ppp)	162.4	163.3	162.1	158.1	156.0	155.1	156.2	152.5	151.3	147.2	-

*Heat is included

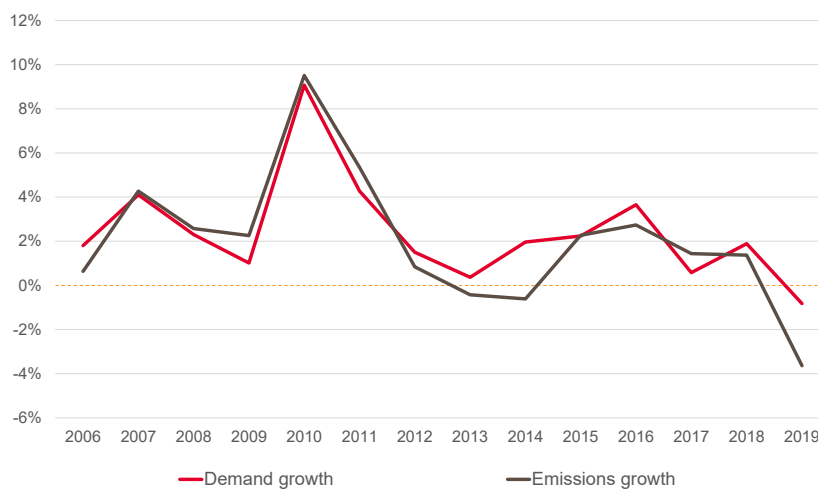
Primary energy demand mix



Electricity generation by source



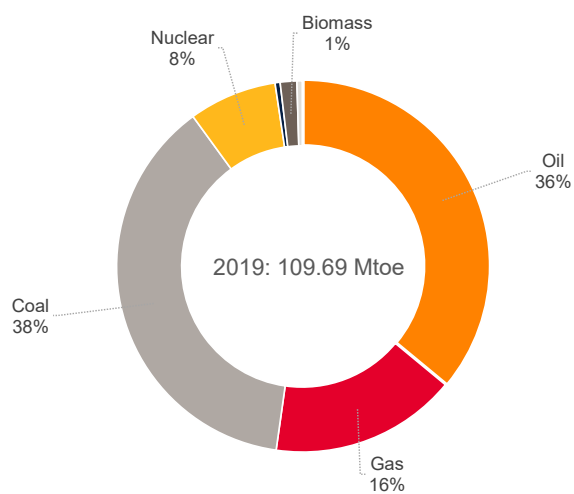
Primary energy demand and CO₂ emissions growth



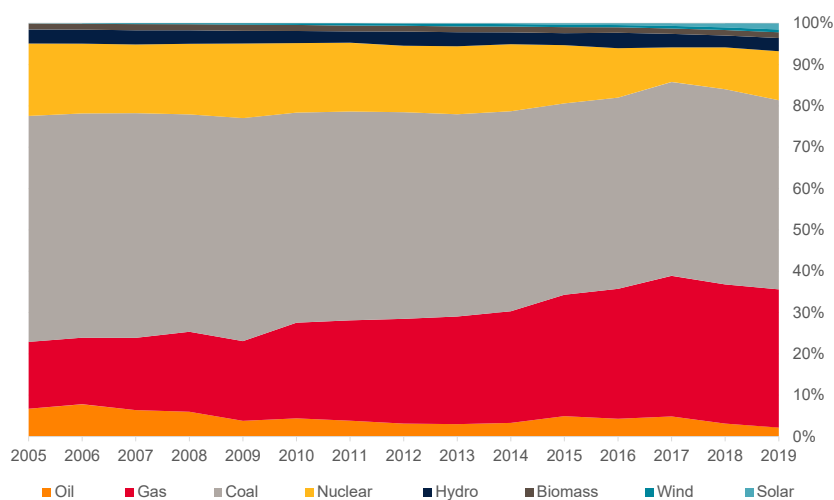
Taiwan (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	110.8	109.4	106.5	108.3	110.3	109.1	109.7	110.1	112.4	109.7	100.0
Oil	44.2	41.2	40.8	41.6	42.4	42.6	42.9	42.5	42.5	39.4	36.0
Gas	13.3	14.0	13.2	13.1	13.6	14.8	15.4	17.9	18.1	17.8	16.3
Coal	40.6	40.9	39.6	40.3	40.9	39.7	40.7	41.5	42.2	41.3	37.7
Nuclear	10.8	11.0	10.5	10.9	11.0	9.5	8.3	5.8	7.2	8.4	7.7
Hydro	0.4	0.3	0.5	0.5	0.4	0.4	0.6	0.5	0.4	0.5	0.4
Biomass	1.3	1.7	1.7	1.7	1.7	1.8	1.5	1.5	1.6	1.6	1.4
Other renewables	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5
Electricity balance of trade*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total final consumption, by source	70.5	69.0	68.2	71.5	72.5	72.6	73.6	73.2	72.8	70.5	100.0
Oil	39.6	36.1	36.1	37.5	37.8	38.3	38.2	37.7	38.2	35.9	50.9
Gas	2.1	2.4	2.4	2.5	2.7	2.8	3.0	3.2	3.5	3.6	5.0
Coal	9.8	11.0	10.2	11.7	11.7	11.3	11.8	10.9	9.3	9.4	13.3
Electricity	18.8	19.2	19.1	19.5	20.0	19.8	20.3	20.8	21.3	21.2	30.0
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Biomass	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.4	0.4	0.6
Electricity generation, by source	21.3	21.7	21.6	21.8	22.4	22.3	22.8	23.1	23.5	23.4	100.0
Oil	0.9	0.8	0.7	0.6	0.7	1.1	1.0	1.1	0.7	0.5	2.2
Gas	4.9	5.3	5.5	5.7	6.1	6.5	7.2	7.9	7.9	7.8	33.4
Coal	10.8	11.0	10.8	10.7	10.9	10.3	10.5	10.8	11.1	10.7	45.8
Nuclear	3.6	3.6	3.5	3.6	3.6	3.1	2.7	1.9	2.4	2.8	11.9
Hydro	0.6	0.6	0.7	0.7	0.6	0.6	0.8	0.8	0.7	0.8	3.2
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.4
Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.7
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	1.5
Other renewables	-0.0	0.0	-0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	70.5	69.0	68.2	71.5	72.5	72.6	73.6	73.2	72.8	70.5	100.0
Industry	25.0	26.4	25.2	26.7	26.8	26.1	26.7	26.9	25.9	25.7	36.4
Transport	12.3	12.5	12.2	12.2	12.4	12.7	13.0	12.9	12.6	12.6	17.9
Residential/Commercial	10.8	10.9	10.7	10.7	11.0	11.0	11.3	11.2	11.1	11.0	15.6
Oil final consumption, by sector	39.6	36.1	36.1	37.5	37.8	38.3	38.2	37.7	38.2	35.9	100.0
Industry	3.7	3.2	2.7	2.4	2.1	1.8	1.7	1.7	1.5	1.2	3.4
Transport	12.2	12.3	12.0	12.0	12.2	12.6	12.9	12.8	12.5	12.5	34.7
Residential/Commercial	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	4.2
Natural gas final consumption, by sector	2.1	2.4	2.4	2.5	2.7	2.8	3.0	3.2	3.5	3.6	100.0
Industry	1.0	1.2	1.3	1.4	1.5	1.6	1.7	2.2	2.5	2.5	71.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	1.1	1.2	1.1	1.1	1.2	1.2	1.3	1.0	1.0	1.0	28.3
Refined products consumption	39.6	36.1	36.1	37.5	37.8	38.3	38.2	37.7	38.2	35.9	100.0
Gasoline	7.8	7.8	7.7	7.7	7.8	8.1	8.4	8.2	8.0	8.0	22.3
Diesel	4.7	4.8	4.8	4.7	4.8	4.9	4.9	4.9	4.9	4.8	13.3
Heating Oil	3.7	3.3	2.7	2.4	2.1	1.9	1.7	1.7	1.5	1.2	3.2
Aviation Jet	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.8
LPG	3.0	2.4	2.1	2.8	2.8	2.5	3.1	2.4	2.9	2.9	8.2
Imports	77.3	71.9	74.6	75.1	78.9	78.6	80.1	81.4	82.6	80.6	100.0
Oil	64.4	57.6	61.1	61.5	64.5	63.2	64.1	63.6	64.6	62.8	77.9
Gas	12.9	14.2	13.5	13.6	14.3	15.3	16.0	17.8	18.1	17.8	22.1
Gasoline	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2
Diesel	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Heating Oil	2.2	1.3	1.0	1.4	1.7	1.0	1.6	2.4	2.1	1.2	1.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.0
LPG	1.0	1.3	0.8	1.3	1.9	1.5	1.9	1.4	2.0	2.0	2.4
Exports	16.4	14.0	17.1	17.8	17.7	17.1	17.5	17.3	18.5	19.0	100.0
Oil	16.4	14.0	17.1	17.8	17.7	17.1	17.5	17.3	18.5	19.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	3.9	2.9	3.4	4.4	4.3	4.4	4.8	4.5	4.2	3.8	19.8
Diesel	8.9	7.9	9.6	10.2	10.1	9.3	9.2	8.5	9.7	9.2	48.5
Heating Oil	0.7	0.9	1.3	0.6	0.7	0.9	1.2	1.5	1.8	1.7	8.9
Aviation Jet	1.6	1.2	1.4	1.3	1.1	1.1	1.0	0.9	1.0	1.0	5.2
LPG	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2
CO₂ Emissions (Million tons CO₂)	268.4	268.5	259.2	262.8	266.6	267.1	272.2	284.1	288.7	280.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	578.8	557.8	527.6	523.5	510.4	507.2	509.7	517.1	511.4	483.4	-
Final energy intensity (toe/million \$15ppp)	105.2	104.9	99.2	100.3	97.5	96.0	97.0	94.1	89.1	86.1	-
Total energy intensity (toe/million \$15ppp)	238.9	227.3	216.9	215.7	211.1	207.2	205.4	200.4	199.2	189.2	-

*Heat is included

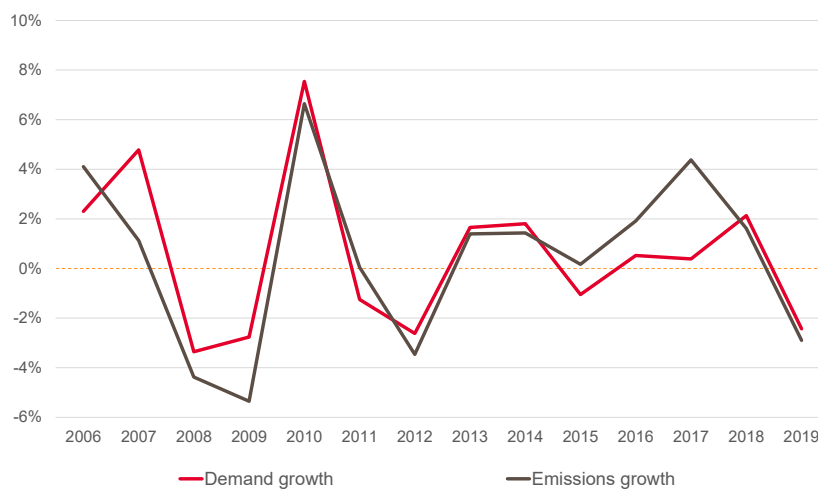
Primary energy demand mix



Electricity generation by source



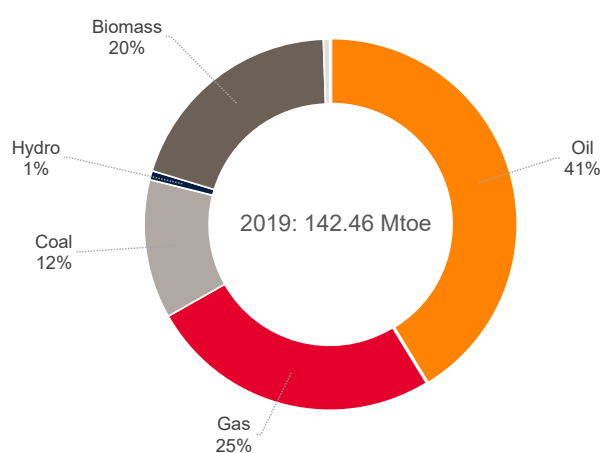
Primary energy demand and CO₂ emissions growth



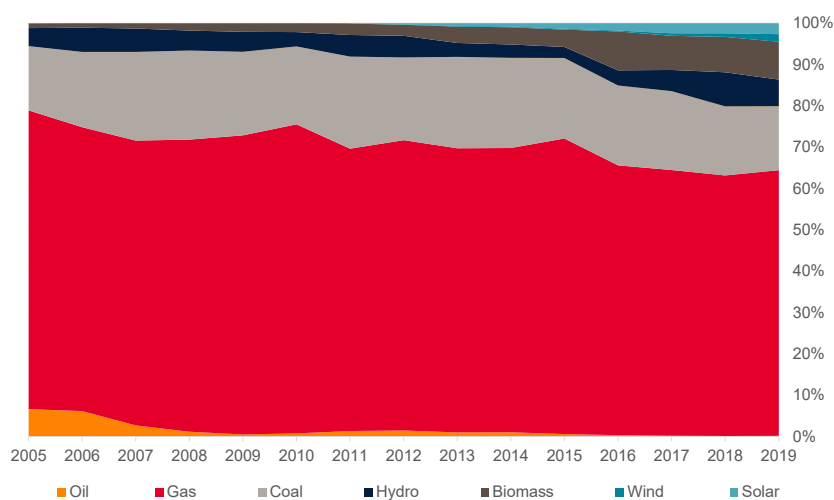
Thailand (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	117.8	117.7	126.2	135.7	134.8	135.4	138.9	138.1	141.3	142.5	100.0
Oil	44.9	47.2	49.5	54.3	53.8	53.8	55.9	56.1	58.8	58.0	40.7
Gas	33.0	30.8	35.2	37.8	37.8	37.7	36.9	36.0	35.6	35.9	25.2
Coal	16.4	16.4	16.5	17.2	15.9	16.9	15.4	16.4	17.0	17.0	12.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.7	0.8	0.5	0.5	0.4	0.6	0.8	1.3	1.1	0.8
Biomass	22.6	21.8	23.5	24.7	25.7	25.3	28.2	26.3	25.8	27.8	19.5
Other renewables	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.8	0.5
Electricity balance of trade*	0.5	0.8	0.7	1.0	0.9	1.1	1.6	2.0	2.2	2.0	1.4
Total final consumption, by source	84.9	85.7	91.9	95.9	96.7	98.1	97.2	99.0	105.5	107.8	100.0
Oil	43.8	45.4	48.3	51.8	51.8	51.9	53.5	53.8	57.0	57.8	53.7
Gas	4.6	5.8	6.1	7.1	7.4	7.2	7.2	7.0	7.3	7.1	6.6
Coal	9.2	7.5	7.8	7.3	6.4	8.2	6.1	7.5	9.6	9.9	9.2
Electricity	12.8	12.8	13.9	14.1	14.5	15.0	15.9	15.9	16.2	16.7	15.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	14.4	14.2	15.7	15.5	16.5	15.9	14.5	14.7	15.3	16.2	15.1
Electricity generation, by source	13.7	13.4	14.3	14.6	14.8	15.3	16.4	16.0	16.1	17.0	100.0
Oil	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Gas	10.3	9.2	10.1	10.1	10.2	10.9	10.7	10.3	10.2	10.9	64.3
Coal	2.6	3.0	2.9	3.2	3.2	3.0	3.2	3.1	2.7	2.6	15.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.7	0.8	0.5	0.5	0.4	0.6	0.8	1.3	1.1	6.4
Biomass	0.3	0.4	0.4	0.6	0.6	0.6	1.6	1.3	1.4	1.6	9.1
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.9
Solar	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	2.6
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	84.9	85.7	91.9	95.9	96.7	98.1	97.2	99.0	105.5	107.8	100.0
Industry	26.5	25.1	28.2	28.4	30.6	31.2	29.8	29.8	32.7	33.7	31.3
Transport	19.9	21.1	22.4	22.7	22.4	23.8	25.2	27.3	27.7	28.7	26.6
Residential/Commercial	17.0	16.9	18.1	17.5	16.6	16.6	16.3	16.3	16.5	16.8	15.6
Oil final consumption, by sector	43.8	45.4	48.3	51.8	51.8	51.9	53.5	53.8	57.0	57.8	100.0
Industry	2.8	2.9	3.7	5.0	6.3	4.8	5.5	4.0	3.8	3.7	6.5
Transport	17.8	18.5	19.2	19.0	18.4	19.8	21.3	23.6	23.9	24.9	43.1
Residential/Commercial	2.9	3.1	3.6	2.8	2.6	2.5	2.5	2.5	2.5	2.5	4.3
Natural gas final consumption, by sector	4.6	5.8	6.1	7.1	7.4	7.2	7.2	7.0	7.3	7.1	100.0
Industry	2.0	2.2	2.4	2.4	2.5	3.0	3.3	3.3	3.6	3.7	51.4
Transport	1.5	1.9	2.3	2.5	2.6	2.5	2.3	2.0	1.8	1.6	22.1
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	43.4	45.0	47.8	51.6	51.7	51.3	52.9	53.2	56.5	57.2	100.0
Gasoline	5.2	5.2	5.4	5.5	5.6	6.3	7.0	7.1	7.4	7.6	13.3
Diesel	15.7	16.6	17.9	18.1	18.3	18.0	18.6	19.0	19.3	20.2	35.4
Heating Oil	0.9	0.9	1.0	1.0	1.0	0.6	0.9	0.8	0.7	0.7	1.3
Aviation Jet	0.4	0.5	0.5	0.6	0.6	0.9	0.9	1.0	1.0	1.0	1.8
LPG	6.8	7.9	8.6	8.7	8.7	7.7	7.1	7.3	8.2	7.7	13.5
Imports	53.0	52.7	56.9	59.9	57.8	62.8	62.8	66.1	70.3	67.6	100.0
Oil	44.8	43.9	47.9	50.4	49.0	50.8	51.2	53.7	57.7	55.1	81.5
Gas	8.2	8.8	9.0	9.5	8.8	12.0	11.6	12.4	12.6	12.5	18.5
Gasoline	0.0	0.0	0.3	0.2	0.7	0.6	1.2	1.3	1.2	1.7	2.5
Diesel	0.1	0.0	0.0	0.2	0.3	0.1	0.7	0.7	0.5	2.1	3.1
Heating Oil	0.1	0.3	0.3	0.3	0.4	0.2	0.1	0.1	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.5
LPG	1.9	1.7	2.0	2.3	2.5	1.6	0.5	0.8	0.8	0.5	0.7
Exports	12.8	11.6	14.2	14.3	12.6	14.1	12.9	14.1	14.8	11.6	100.0
Oil	12.8	11.6	14.2	14.3	12.6	14.1	12.9	14.1	14.8	11.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.0	0.7	1.2	1.2	1.0	1.1	1.1	1.2	1.3	0.9	7.9
Diesel	4.8	3.5	4.7	4.2	3.8	5.4	4.2	4.6	4.8	3.3	28.2
Heating Oil	3.1	3.3	3.7	3.6	3.6	3.5	3.1	3.3	3.3	3.1	26.2
Aviation Jet	1.1	1.0	0.6	1.2	1.0	1.2	0.4	0.6	0.8	0.7	5.7
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.4	3.1
CO₂ Emissions (Million tons CO₂)	235.4	235.0	252.1	263.9	259.8	263.8	260.1	260.2	268.8	271.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	243.2	240.8	240.8	245.5	239.3	235.9	225.2	216.8	215.0	212.1	-
Final energy intensity (toe/million \$15ppp)	69.1	68.4	69.2	67.6	67.9	67.5	64.3	63.4	63.8	64.2	-
Total energy intensity (toe/million \$15ppp)	121.7	120.6	120.6	126.2	124.1	121.1	120.3	115.1	113.0	111.3	-

*Heat is included

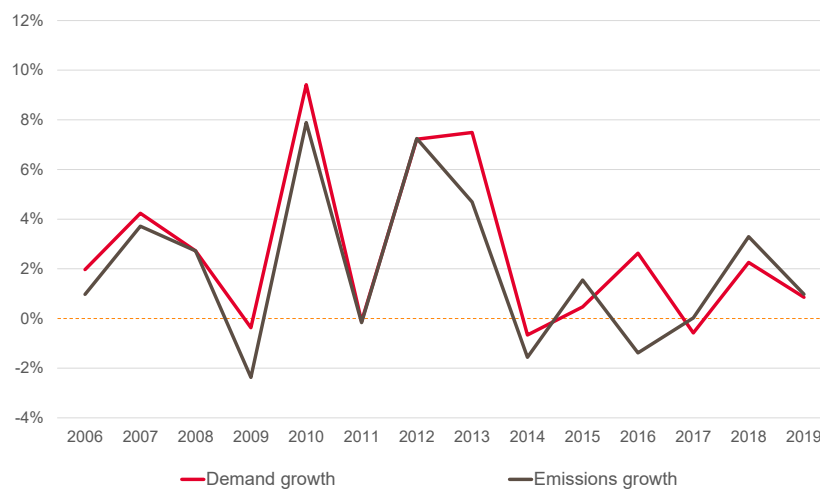
Primary energy demand mix



Electricity generation by source



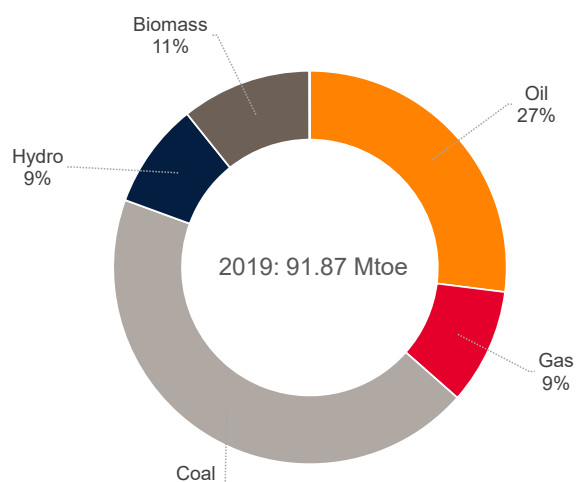
Primary energy demand and CO₂ emissions growth



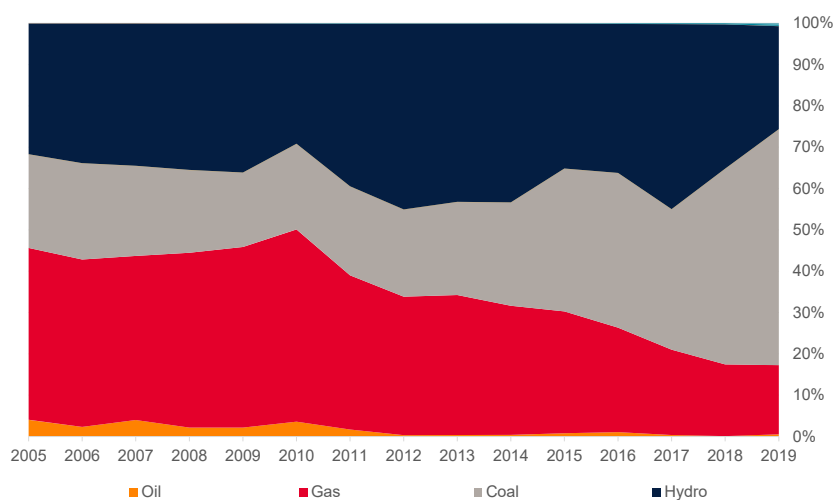
Vietnam (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	58.6	58.8	59.7	61.5	68.9	73.0	77.2	78.0	83.5	91.9	100.0
Oil	18.3	17.0	16.0	15.9	19.2	18.0	19.5	19.8	22.5	23.5	25.5
Gas	8.1	7.6	8.3	8.5	9.1	8.8	8.8	7.8	7.9	8.1	8.8
Coal	14.7	15.6	15.8	17.2	19.9	26.8	28.5	28.2	36.7	45.6	49.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.4	3.5	4.5	4.5	5.1	4.9	5.7	7.7	7.2	5.6	6.1
Biomass	14.7	14.9	15.0	15.2	15.3	14.4	14.7	14.4	8.9	8.9	9.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Electricity balance of trade*	0.4	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Total final consumption, by source	48.5	49.0	49.6	52.0	55.4	58.7	61.4	64.1	60.3	64.5	100.0
Oil	16.8	15.8	15.3	15.6	16.7	17.8	19.1	19.8	20.7	21.4	33.2
Gas	0.5	0.8	1.4	1.5	1.6	1.1	1.1	1.0	1.0	0.9	1.4
Coal	9.8	10.1	9.6	10.5	11.4	14.2	13.8	14.8	14.2	16.7	25.9
Electricity	7.5	8.1	9.1	10.0	11.0	12.1	13.5	14.9	16.3	17.4	27.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	13.9	14.1	14.2	14.4	14.5	13.6	13.9	13.6	8.1	8.1	12.5
Electricity generation, by source	8.2	9.0	10.1	10.4	11.9	14.0	15.7	17.1	20.7	22.5	100.0
Oil	0.3	0.2	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.1	0.5
Gas	3.8	3.3	3.4	3.5	3.7	4.1	4.0	3.5	3.6	3.8	16.8
Coal	1.7	1.9	2.1	2.3	3.0	4.9	5.9	5.8	9.8	12.9	57.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.4	3.5	4.5	4.5	5.1	4.9	5.7	7.7	7.2	5.6	24.9
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Other renewables	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	48.5	49.0	49.6	52.0	55.4	58.7	61.4	64.1	60.3	64.5	100.0
Industry	17.4	18.2	18.7	19.8	21.8	31.8	33.4	34.4	31.5	34.5	53.5
Transport	10.3	10.1	10.0	9.8	10.0	12.4	13.3	13.9	13.4	13.9	21.5
Residential/Commercial	17.9	18.3	18.7	19.4	19.8	12.8	13.1	14.0	12.6	13.5	21.0
Oil final consumption, by sector	16.8	15.8	15.3	15.6	16.7	17.8	19.1	19.8	20.7	21.4	100.0
Industry	2.1	1.9	1.6	1.4	1.6	2.6	2.9	2.9	3.6	3.9	18.2
Transport	10.3	10.1	10.0	9.8	10.0	12.4	13.3	13.9	13.4	13.9	64.9
Residential/Commercial	1.6	1.6	1.5	1.5	1.6	1.7	1.9	1.9	1.8	1.9	8.9
Natural gas final consumption, by sector	0.5	0.8	1.4	1.5	1.6	1.1	1.1	1.0	1.0	0.9	100.0
Industry	0.5	0.8	1.4	1.5	1.6	1.1	1.1	1.0	1.0	0.9	99.5
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	16.8	15.8	15.3	15.6	16.7	17.8	19.1	19.8	20.7	21.4	100.0
Gasoline	4.7	4.7	4.8	4.8	4.7	6.3	6.1	6.5	6.7	7.0	32.6
Diesel	7.1	7.0	6.7	6.2	6.7	7.9	9.1	9.4	9.9	10.2	47.8
Heating Oil	0.8	0.6	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.1	0.6
Aviation Jet	0.3	0.3	0.3	0.4	0.4	0.6	0.7	0.7	0.8	0.8	3.7
LPG	1.4	1.4	1.4	1.5	1.5	2.1	2.2	2.3	1.7	2.0	9.2
Imports	12.5	13.4	11.7	10.7	12.6	12.2	14.2	16.4	18.9	19.8	100.0
Oil	12.5	13.4	11.7	10.7	12.6	12.2	14.2	16.4	18.9	19.8	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	2.1	3.1	3.0	2.4	2.6	2.8	2.6	3.3	2.1	2.1	10.5
Diesel	5.0	5.4	4.6	3.2	4.2	5.3	6.8	7.4	6.4	4.8	24.0
Heating Oil	1.8	1.5	0.8	0.7	0.7	0.7	0.9	0.6	0.7	0.8	4.2
Aviation Jet	0.9	1.0	1.0	1.2	1.2	1.4	1.6	1.8	2.1	2.1	10.5
LPG	0.8	0.8	0.7	0.8	0.8	1.2	1.3	1.5	0.9	0.9	4.8
Exports	9.7	10.6	11.1	9.8	10.6	10.6	8.4	8.6	5.7	5.9	100.0
Oil	9.7	10.6	11.1	9.8	10.6	10.6	8.4	8.6	5.7	5.9	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.4	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	3.7
Diesel	1.0	1.1	0.8	0.5	0.4	0.5	0.5	0.5	0.6	0.6	10.8
Heating Oil	0.2	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.5	7.9
Aviation Jet	0.1	0.4	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	11.6
LPG	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.3	5.6
CO₂ Emissions (Million tons CO₂)	127.5	127.0	126.3	132.2	146.6	183.2	194.3	192.0	228.3	267.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	300.6	281.8	266.3	264.3	276.5	324.0	323.4	299.2	332.3	363.9	-
Final energy intensity (toe/million \$15ppp)	109.0	104.8	101.1	99.1	98.5	102.6	101.2	98.9	85.6	86.0	-
Total energy intensity (toe/million \$15ppp)	138.1	130.5	125.9	122.9	129.9	129.2	128.6	121.5	121.5	125.0	-

*Heat is included

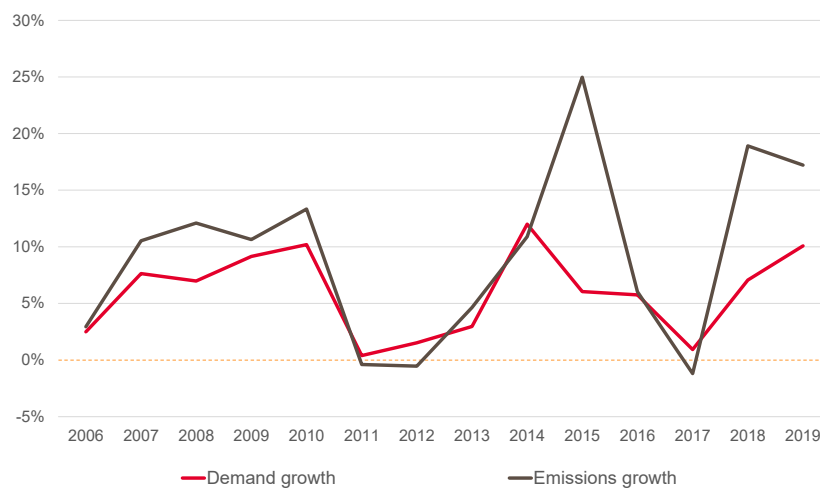
Primary energy demand mix



Electricity generation by source



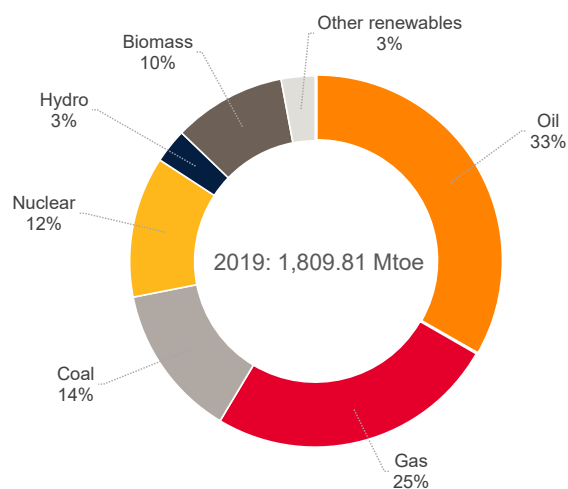
Primary energy demand and CO₂ emissions growth



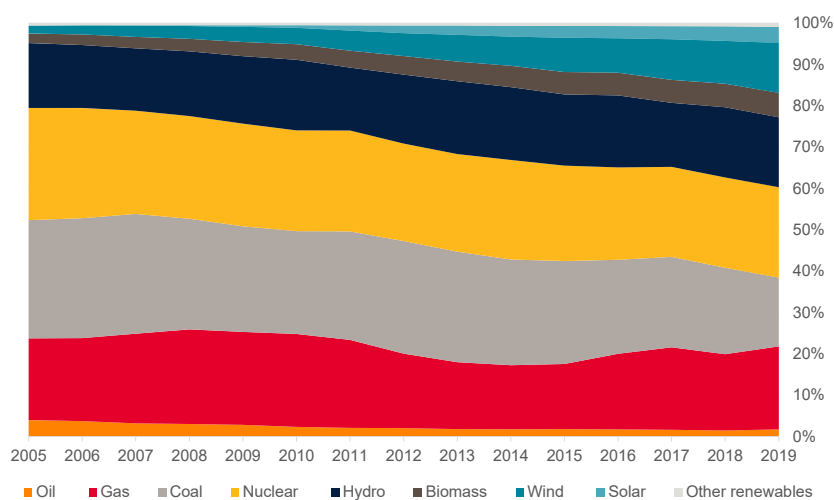
Europe (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	1,926.3	1,868.6	1,858.5	1,840.0	1,778.5	1,808.3	1,826.4	1,858.2	1,839.6	1,809.8	100.0
Oil	632.2	610.9	589.7	577.3	572.0	585.1	592.5	606.0	592.9	591.8	32.7
Gas	490.3	450.6	441.3	435.5	393.9	408.2	431.7	452.8	443.9	449.8	24.9
Coal	330.6	339.2	345.8	334.9	316.6	313.4	296.3	290.1	279.6	237.5	13.1
Nuclear	245.7	243.3	236.6	235.3	235.6	229.4	224.3	221.5	222.2	218.5	12.1
Hydro	53.9	47.3	52.3	55.1	54.0	53.6	54.8	48.9	54.2	53.1	2.9
Biomass	142.0	139.3	149.6	153.5	154.0	159.3	164.3	168.6	170.9	175.1	9.7
Other renewables	15.2	20.1	24.5	28.6	31.2	36.6	37.4	43.7	46.6	52.6	2.9
Electricity balance of trade*	16.3	17.9	18.6	20.0	21.1	22.6	25.1	26.6	29.2	31.4	1.7
Total final consumption, by source	1,364.4	1,309.6	1,310.2	1,306.6	1,260.5	1,291.0	1,315.8	1,340.2	1,334.7	1,327.7	100.0
Oil	558.7	540.8	524.9	518.6	513.6	524.7	533.2	544.0	538.8	541.2	40.8
Gas	294.6	271.8	280.3	286.6	257.6	268.0	276.1	282.7	281.3	274.9	20.7
Coal	78.3	76.7	76.7	73.2	72.4	72.3	72.0	72.4	70.7	70.4	5.3
Electricity	279.8	276.4	278.1	276.6	271.2	275.9	279.9	283.0	284.2	279.9	21.1
Heat	60.5	56.4	57.7	57.8	54.0	55.1	57.2	57.8	57.4	56.6	4.3
Biomass	92.5	87.5	92.5	93.9	91.7	95.0	97.3	100.2	102.4	104.8	7.9
Electricity generation, by source	332.5	328.7	331.1	328.7	322.7	327.8	331.3	335.4	335.6	329.5	100.0
Oil	7.7	6.8	6.7	5.8	5.6	5.9	5.7	5.4	4.9	5.6	1.7
Gas	74.8	70.0	59.6	53.3	50.1	51.6	60.6	66.9	62.0	66.2	20.1
Coal	82.7	86.2	90.3	87.9	82.5	81.7	75.4	73.5	70.2	54.9	16.7
Nuclear	81.1	80.3	78.1	77.6	77.7	75.7	74.0	73.1	73.3	72.1	21.9
Hydro	56.8	50.1	55.3	58.0	56.9	56.5	57.7	52.0	57.0	55.7	16.9
Biomass	12.6	13.5	14.9	15.7	16.7	17.7	18.3	18.6	19.2	19.5	5.9
Wind	13.2	16.0	18.4	21.2	22.7	27.2	27.6	33.0	34.8	39.7	12.1
Solar	2.0	4.1	6.2	7.4	8.5	9.4	9.8	10.7	11.8	12.8	3.9
Other renewables	1.6	1.7	1.7	1.8	1.9	2.1	2.2	2.3	2.5	2.9	0.9
Total final consumption, by sector	1,364.4	1,309.6	1,310.2	1,306.6	1,260.5	1,291.0	1,315.8	1,340.2	1,334.7	1,327.7	100.0
Industry	329.1	328.6	323.6	320.4	317.8	318.9	320.5	332.3	333.9	329.8	24.8
Transport	351.1	348.2	341.5	339.6	344.7	353.7	363.5	370.4	374.6	376.6	28.4
Residential/Commercial	531.3	483.4	501.1	505.6	457.2	479.1	491.0	492.4	487.0	482.6	36.3
Oil final consumption, by sector	558.7	540.8	524.9	518.6	513.6	524.7	533.2	544.0	538.8	541.2	100.0
Industry	38.0	36.0	33.8	30.1	28.7	30.2	29.3	31.9	31.0	31.8	5.9
Transport	330.7	327.1	319.5	318.5	322.7	331.4	341.0	346.3	348.6	350.1	64.7
Residential/Commercial	68.1	59.4	58.5	59.7	52.5	53.9	53.2	52.6	51.4	51.4	9.5
Natural gas final consumption, by sector	294.6	271.8	280.3	286.6	257.6	268.0	276.1	282.7	281.3	274.9	100.0
Industry	93.0	91.9	91.3	92.8	90.7	89.1	89.5	94.9	95.7	93.3	33.9
Transport	1.3	1.3	1.5	1.6	1.6	2.0	2.0	1.9	2.0	1.9	0.7
Residential/Commercial	179.9	158.0	167.7	172.8	145.6	158.3	165.8	166.0	164.5	161.1	58.6
Refined products consumption	555.9	537.9	522.3	515.9	510.9	522.5	530.9	541.9	537.0	539.7	100.0
Gasoline	100.3	96.1	90.5	87.2	86.9	85.6	86.0	86.2	89.3	91.3	16.9
Diesel	299.5	292.8	288.8	289.8	286.8	297.5	304.2	310.0	308.0	307.2	56.9
Heating Oil	12.6	11.8	10.4	8.8	8.0	8.1	6.9	6.5	6.5	6.2	1.1
Aviation Jet	7.9	7.6	7.3	7.5	7.7	8.1	8.4	8.4	8.6	8.9	1.6
LPG	32.7	32.4	30.8	33.7	34.6	36.0	36.1	36.4	36.7	36.3	6.7
Imports	1,390.3	1,367.5	1,368.3	1,361.6	1,328.0	1,410.8	1,431.0	1,496.2	1,477.9	1,469.8	100.0
Oil	987.2	968.9	978.8	972.0	960.5	1,022.2	1,030.9	1,053.6	1,036.3	1,031.3	70.2
Gas	403.0	398.7	389.5	389.7	367.5	388.6	400.1	442.7	441.6	438.5	29.8
Gasoline	30.3	30.6	32.0	29.5	29.0	31.7	32.8	32.6	29.4	29.6	2.0
Diesel	135.1	134.6	136.1	145.1	140.5	153.6	163.1	161.3	155.6	151.6	10.3
Heating Oil	66.5	69.0	64.8	66.2	66.9	69.4	67.2	51.3	49.1	42.4	2.9
Aviation Jet	32.5	31.3	31.9	33.8	32.8	34.3	36.8	37.7	40.4	40.9	2.8
LPG	20.7	21.2	20.5	23.5	25.6	27.6	28.7	27.5	28.8	27.8	1.9
Exports	632.7	617.4	643.3	643.3	637.1	688.9	696.2	723.4	702.7	670.0	100.0
Oil	456.5	444.6	459.0	457.8	455.6	494.3	511.1	522.9	507.5	490.5	73.2
Gas	176.2	172.8	184.3	185.6	181.5	194.6	185.1	200.5	195.1	179.4	26.8
Gasoline	76.7	75.6	85.6	80.5	79.7	91.7	92.5	95.3	93.0	94.0	14.0
Diesel	92.2	93.9	103.5	103.6	101.5	109.4	114.8	117.5	105.1	103.9	15.5
Heating Oil	67.7	69.9	69.5	72.4	74.3	83.4	79.0	62.2	56.8	47.7	7.1
Aviation Jet	15.8	16.2	17.3	16.9	14.7	15.0	16.1	17.4	19.3	20.2	3.0
LPG	7.4	7.8	8.6	8.5	8.0	9.8	10.2	10.3	9.4	9.5	1.4
CO₂ Emissions (Million tons CO₂)	4,175.9	4,058.0	4,028.6	3,933.9	3,761.6	3,824.2	3,833.4	3,884.5	3,823.5	3,672.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	198.4	188.3	186.9	180.7	169.2	167.5	164.2	161.8	155.8	147.3	-
Final energy intensity (toe/million \$15ppp)	59.2	55.4	55.6	55.0	51.8	51.8	51.7	51.1	50.1	49.0	-
Total energy intensity (toe/million \$15ppp)	91.5	86.7	86.2	84.5	80.0	79.2	78.3	77.4	74.9	72.6	-

*Heat is included

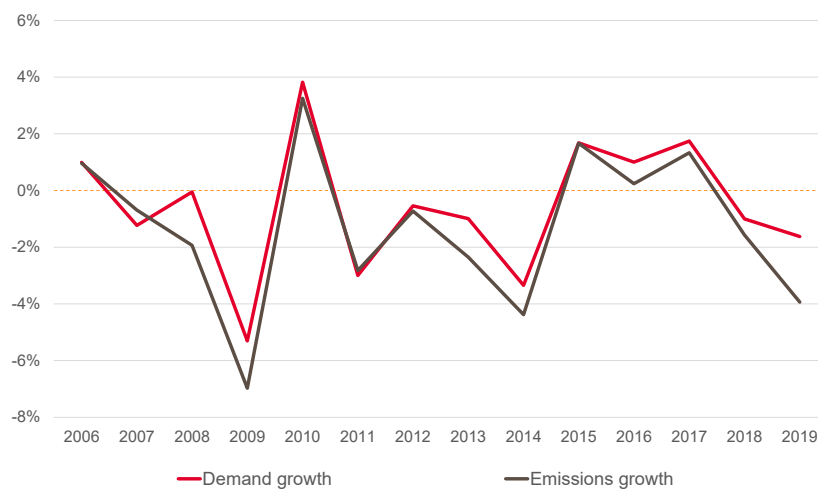
Primary energy demand mix



Electricity generation by source



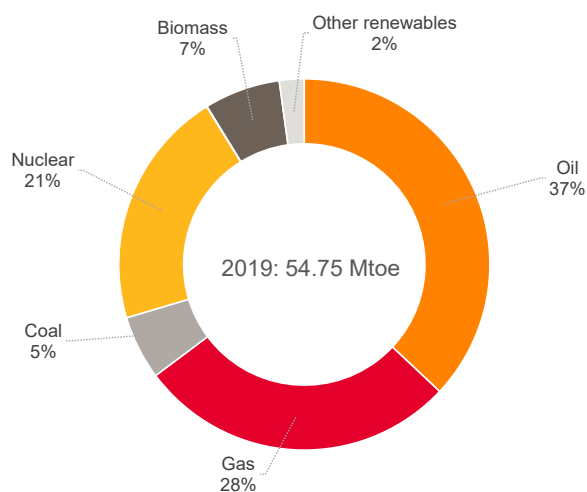
Primary energy demand and CO₂ emissions growth



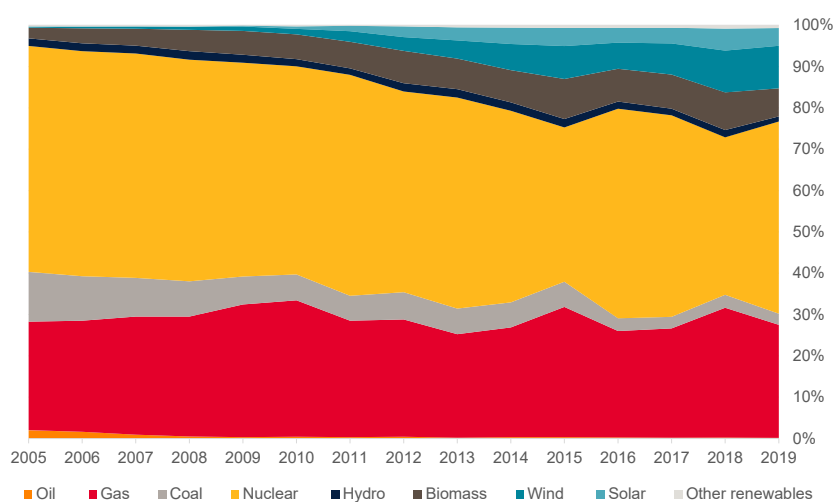
Belgium (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	59.8	56.0	53.5	55.6	52.6	52.5	55.6	55.2	52.8	54.8	100.0
Oil	23.1	21.3	20.3	21.3	22.0	22.0	21.4	21.2	20.9	20.2	36.8
Gas	16.7	14.4	14.4	14.5	12.7	14.0	14.3	14.5	14.8	15.2	27.7
Coal	3.8	3.5	3.2	3.5	3.3	3.4	3.2	3.1	3.1	3.0	5.6
Nuclear	12.5	12.6	10.5	11.1	8.8	6.8	11.3	11.0	7.4	11.4	20.7
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.4	3.5	3.6	3.6	3.4	3.6	3.8	3.8	3.7	3.6	6.6
Other renewables	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	1.0	1.2	2.1
Electricity balance of trade*	0.1	0.3	1.0	1.1	1.8	2.1	0.8	0.8	1.8	0.2	0.4
Total final consumption, by source	43.1	40.3	40.6	42.6	40.9	41.9	42.3	41.7	41.9	41.3	100.0
Oil	20.7	19.4	19.4	20.2	20.1	20.5	20.1	19.4	19.3	18.6	45.0
Gas	10.9	9.6	9.9	10.6	9.2	9.9	10.2	10.5	10.7	10.9	26.4
Coal	2.1	2.1	1.9	2.1	2.2	2.2	2.4	2.4	2.4	2.3	5.6
Electricity	7.2	6.9	7.0	7.1	7.0	7.0	7.1	7.0	7.1	7.0	17.0
Heat	0.7	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.2
Biomass	1.7	1.6	1.7	1.9	1.8	1.8	2.0	2.0	2.0	2.0	4.8
Electricity generation, by source	8.2	7.8	7.1	7.2	6.2	6.0	7.4	7.4	6.4	8.1	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gas	2.7	2.2	2.0	1.8	1.7	1.9	1.9	2.0	2.0	2.2	27.3
Coal	0.5	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.2	2.7
Nuclear	4.1	4.1	3.5	3.7	2.9	2.2	3.7	3.6	2.4	3.7	46.5
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2
Biomass	0.5	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	6.8
Wind	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.8	10.3
Solar	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	4.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7
Total final consumption, by sector	43.1	40.3	40.6	42.6	40.9	41.9	42.3	41.7	41.9	41.3	100.0
Industry	10.9	10.6	10.6	10.8	10.7	10.6	10.8	11.0	11.1	11.1	26.8
Transport	9.0	8.8	8.6	8.4	8.6	8.9	9.0	8.9	8.9	8.9	21.5
Residential/Commercial	14.4	12.3	12.8	13.9	11.7	12.8	12.9	12.6	12.7	12.7	30.8
Oil final consumption, by sector	20.7	19.4	19.4	20.2	20.1	20.5	20.1	19.4	19.3	18.6	100.0
Industry	0.7	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	2.1
Transport	8.4	8.3	8.1	7.9	8.0	8.5	8.5	8.3	8.3	8.2	44.3
Residential/Commercial	4.1	3.5	3.4	3.8	3.0	3.6	3.3	3.3	3.2	3.1	16.8
Natural gas final consumption, by sector	10.9	9.6	9.9	10.6	9.2	9.9	10.2	10.5	10.7	10.9	100.0
Industry	3.8	3.7	3.8	3.8	3.7	3.7	3.8	4.0	4.1	4.2	38.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	5.9	4.7	5.0	5.7	4.5	4.9	5.3	5.1	5.2	5.3	49.0
Refined products consumption	20.7	19.4	19.4	20.2	20.1	20.5	20.1	19.4	19.3	18.6	100.0
Gasoline	1.3	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.8	9.9
Diesel	11.6	10.8	10.6	10.8	10.0	10.9	10.5	10.3	10.0	9.7	52.1
Heating Oil	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LPG	1.3	1.5	1.6	1.7	2.0	2.0	1.7	1.7	2.0	2.1	11.5
Imports	76.3	72.0	69.8	72.2	72.4	75.2	73.8	78.4	80.4	80.2	100.0
Oil	56.8	54.2	54.6	56.9	58.8	59.8	58.8	63.5	64.4	63.5	79.2
Gas	19.5	17.8	15.3	15.3	13.6	15.3	15.0	14.9	16.0	16.7	20.8
Gasoline	1.1	1.4	1.0	0.7	0.9	1.3	1.5	0.9	1.6	1.4	1.7
Diesel	7.5	8.3	8.0	12.3	10.0	10.9	11.3	10.8	10.1	8.1	10.1
Heating Oil	5.3	4.7	4.2	5.0	3.5	3.7	3.9	4.8	4.9	5.5	6.9
Aviation Jet	1.8	1.9	2.2	1.6	1.0	0.8	0.5	1.5	1.7	1.5	1.8
LPG	1.9	2.0	1.8	1.9	2.0	2.1	1.8	1.8	1.9	1.9	2.3
Exports	27.0	27.8	28.1	28.3	30.6	30.9	30.2	34.7	34.9	34.2	100.0
Oil	24.2	24.5	27.0	27.5	29.8	29.5	29.6	34.1	33.7	33.0	96.7
Gas	2.8	3.4	1.1	0.8	0.7	1.4	0.6	0.6	1.1	1.1	3.3
Gasoline	5.0	4.4	4.7	4.1	4.4	5.4	5.4	4.9	4.4	4.7	13.8
Diesel	6.7	8.0	9.7	11.2	12.0	11.0	11.9	12.5	11.9	10.7	31.2
Heating Oil	3.7	4.1	3.8	4.6	4.3	4.5	4.0	6.0	5.5	4.2	12.3
Aviation Jet	1.8	1.6	2.7	1.7	1.4	0.9	0.8	1.8	1.6	2.2	6.5
LPG	1.1	1.0	0.8	0.8	0.7	0.8	0.9	0.9	0.7	0.7	2.1
CO₂ Emissions (Million tons CO₂)	109.2	98.8	97.6	98.7	92.4	97.0	95.9	95.1	97.6	98.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	223.7	198.8	196.0	197.9	182.9	188.7	183.8	179.3	181.4	179.7	-
Final energy intensity (toe/million \$15ppp)	71.9	65.3	65.5	68.0	62.6	64.3	64.3	62.7	62.2	61.3	-
Total energy intensity (toe/million \$15ppp)	122.6	112.7	107.4	111.5	104.1	102.1	106.6	104.2	98.2	100.4	-

*Heat is included

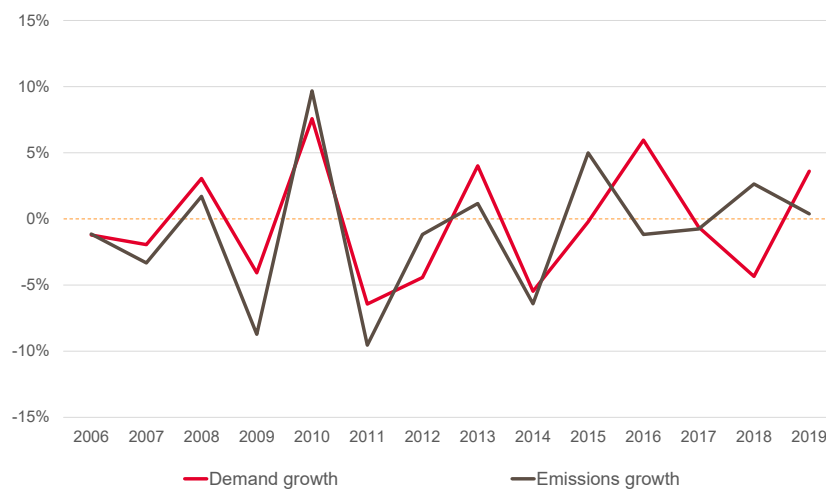
Primary energy demand mix



Electricity generation by source



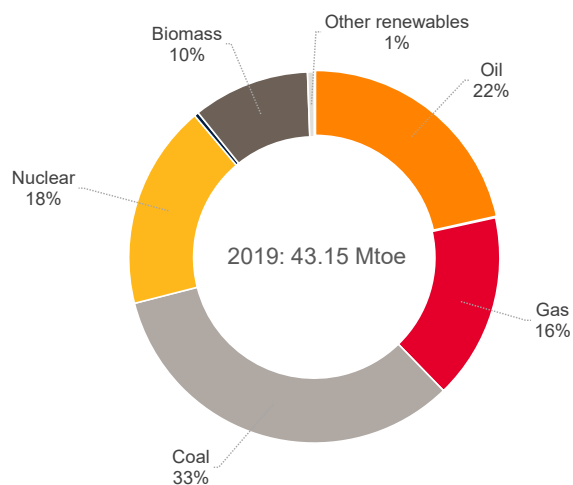
Primary energy demand and CO₂ emissions growth



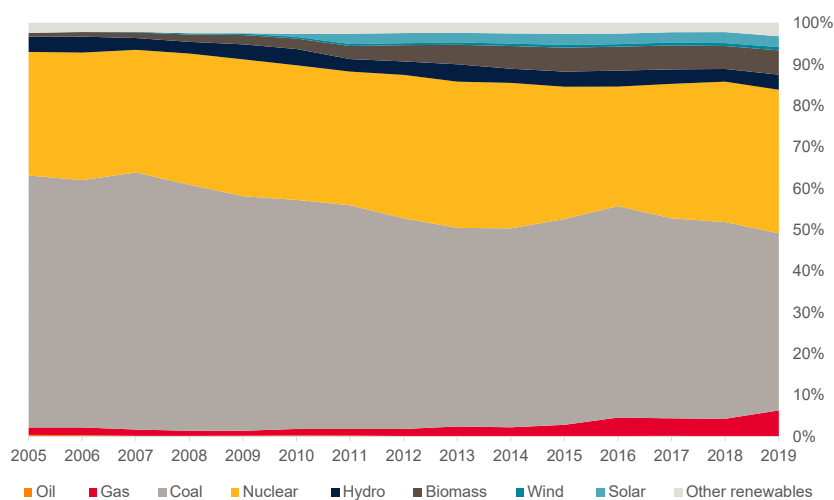
Czech Republic (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	45.1	43.5	43.2	43.2	41.9	42.0	41.5	43.3	43.4	43.1	100.0
Oil	9.0	8.7	8.6	8.3	8.8	8.6	8.0	9.3	9.5	9.5	22.1
Gas	8.1	6.8	6.9	6.9	6.2	6.5	7.0	7.2	6.9	7.2	16.6
Coal	18.7	18.4	17.4	17.1	16.0	16.4	16.5	15.8	15.7	14.7	34.1
Nuclear	7.3	7.4	7.9	8.0	7.9	7.0	6.3	7.4	7.8	7.9	18.3
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.4
Biomass	3.0	3.3	3.5	3.8	4.0	4.1	4.2	4.3	4.4	4.5	10.4
Other renewables	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6
Electricity balance of trade*	-1.3	-1.4	-1.5	-1.4	-1.4	-1.0	-0.9	-1.1	-1.2	-1.1	-2.5
Total final consumption, by source	27.7	26.7	26.8	26.6	26.1	26.3	26.3	28.0	27.9	27.9	100.0
Oil	8.6	8.3	8.3	8.0	8.5	8.3	7.7	9.1	9.2	9.3	33.2
Gas	6.1	5.5	5.4	5.4	4.9	5.1	5.4	5.6	5.3	5.1	18.3
Coal	3.5	3.5	3.5	3.5	3.3	3.2	3.2	3.3	3.3	3.4	12.3
Electricity	4.7	4.6	4.6	4.6	4.6	4.7	4.8	4.9	4.9	5.0	17.8
Heat	2.4	2.3	2.3	2.3	2.0	2.0	2.1	2.2	2.0	1.9	7.0
Biomass	2.4	2.5	2.6	2.7	2.9	2.9	3.0	3.0	3.2	3.2	11.5
Electricity generation, by source	7.4	7.5	7.5	7.5	7.4	7.2	7.2	7.5	7.6	7.5	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.5	6.2
Coal	4.1	4.1	3.8	3.6	3.6	3.6	3.7	3.6	3.6	3.2	42.9
Nuclear	2.4	2.4	2.6	2.6	2.6	2.3	2.1	2.4	2.6	2.6	34.8
Hydro	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	3.6
Biomass	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	5.9
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.8
Solar	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.6
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.1
Total final consumption, by sector	27.7	26.7	26.8	26.6	26.1	26.3	26.3	28.0	27.9	27.9	100.0
Industry	7.8	7.7	7.7	7.4	7.3	7.4	7.4	7.6	7.5	7.5	26.9
Transport	5.8	5.8	5.7	5.7	5.9	6.1	6.4	6.6	6.6	6.6	23.8
Residential/Commercial	10.7	10.0	10.2	10.3	9.5	9.7	10.1	10.3	10.2	10.1	36.0
Oil final consumption, by sector	8.6	8.3	8.3	8.0	8.5	8.3	7.7	9.1	9.2	9.3	100.0
Industry	0.4	0.3	0.3	0.2	0.3	0.3	0.1	0.1	0.1	0.1	1.5
Transport	5.4	5.4	5.3	5.2	5.4	5.6	5.9	6.0	6.1	6.1	66.0
Residential/Commercial	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Natural gas final consumption, by sector	6.1	5.5	5.4	5.4	4.9	5.1	5.4	5.6	5.3	5.1	100.0
Industry	2.2	2.0	2.0	2.1	1.9	2.0	2.0	2.1	2.0	1.9	38.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.0
Residential/Commercial	3.7	3.3	3.2	3.2	2.8	2.9	3.2	3.3	3.1	3.0	58.1
Refined products consumption	8.6	8.3	8.3	8.0	8.5	8.3	7.7	9.1	9.2	9.3	100.0
Gasoline	1.9	1.8	1.7	1.6	1.5	1.6	1.6	1.6	1.6	1.6	17.1
Diesel	3.9	3.9	3.9	4.0	4.1	4.4	4.6	4.7	4.8	4.8	51.9
Heating Oil	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
LPG	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.5	0.5	0.5	5.4
Imports	17.6	17.9	16.3	17.0	16.8	17.3	17.0	19.1	18.5	19.7	100.0
Oil	10.6	10.2	10.2	10.0	10.9	11.2	10.3	11.8	11.9	11.9	60.3
Gas	7.0	7.6	6.1	7.0	6.0	6.2	6.7	7.3	6.6	7.8	39.7
Gasoline	0.6	0.6	0.5	0.6	0.5	0.5	0.8	0.6	0.7	0.6	2.9
Diesel	1.2	1.6	1.5	1.7	1.8	2.2	2.8	2.1	2.4	2.2	11.0
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.3	0.3	1.3
LPG	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	1.2
Exports	1.8	1.7	1.7	1.8	2.0	2.4	2.2	2.4	2.2	2.2	100.0
Oil	1.6	1.6	1.7	1.8	2.0	2.4	2.2	2.4	2.2	2.2	100.0
Gas	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.6	0.6	0.6	26.3
Diesel	0.7	0.6	0.7	0.7	0.9	1.1	0.8	0.9	0.8	0.8	36.7
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
LPG	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	7.2
CO₂ Emissions (Million tons CO₂)	113.7	110.1	106.7	102.6	100.0	100.9	102.3	103.8	102.7	99.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	347.7	330.9	323.3	312.5	296.4	284.0	281.1	273.3	262.9	248.8	-
Final energy intensity (toe/million \$15ppp)	76.2	72.3	73.0	72.8	68.9	67.2	67.3	66.1	63.7	62.1	-
Total energy intensity (toe/million \$15ppp)	137.9	130.7	130.9	131.5	124.3	118.2	113.9	114.0	111.2	107.7	-

*Heat is included

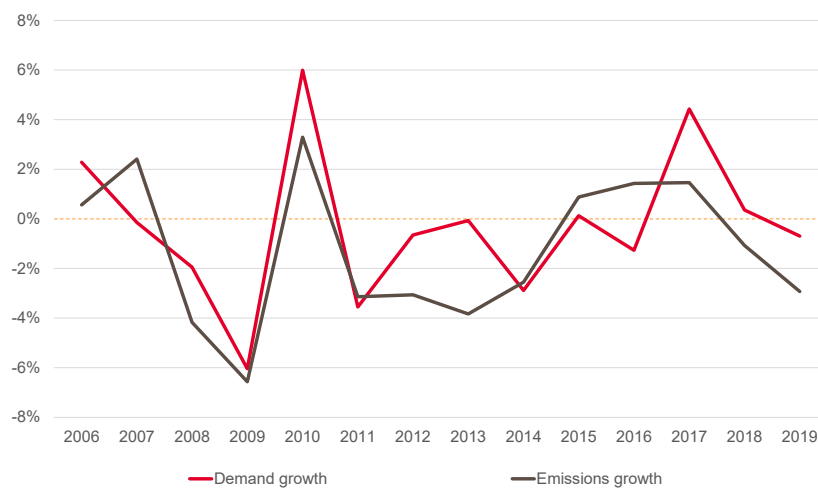
Primary energy demand mix



Electricity generation by source



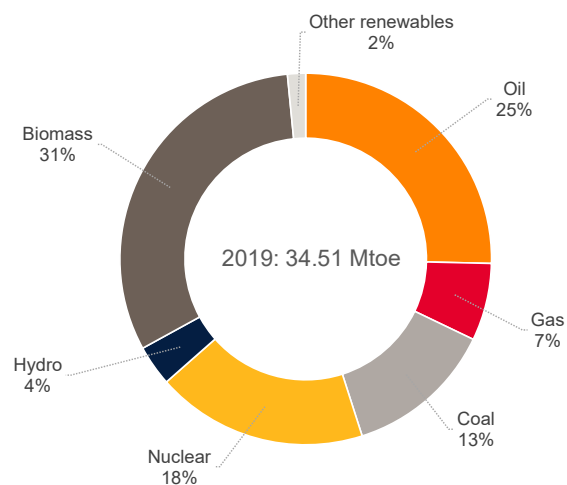
Primary energy demand and CO₂ emissions growth



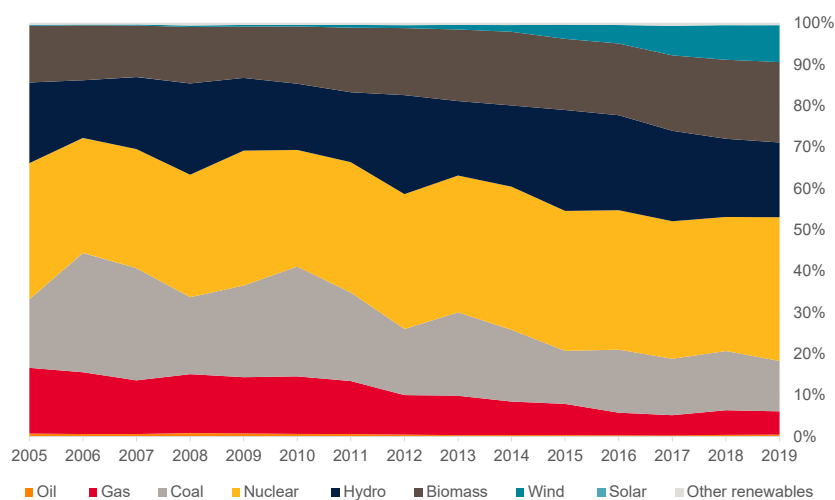
Finland (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	36.8	35.4	34.2	33.7	34.3	32.6	34.1	33.7	34.2	34.5	100.0
Oil	9.7	9.4	8.8	7.9	8.9	8.0	8.7	8.3	8.2	9.0	26.2
Gas	3.8	3.4	3.0	2.9	2.5	2.2	2.1	1.9	2.2	2.1	6.1
Coal	6.9	6.0	4.6	5.1	4.5	4.1	4.5	4.1	4.2	3.4	9.9
Nuclear	5.9	6.0	6.0	6.2	6.1	6.1	6.0	5.9	5.9	6.2	18.0
Hydro	1.1	1.1	1.4	1.1	1.2	1.4	1.4	1.3	1.1	1.1	3.1
Biomass	8.4	8.2	8.7	8.9	9.3	9.1	9.3	9.8	10.1	10.3	29.7
Other renewables	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	1.5
Electricity balance of trade*	1.0	1.3	1.6	1.5	1.7	1.5	1.8	1.9	1.9	1.9	5.4
Total final consumption, by source	26.7	25.3	25.5	25.4	25.3	24.8	25.9	25.9	26.4	25.9	100.0
Oil	8.2	7.7	7.6	7.9	7.5	7.2	7.8	7.4	7.5	7.2	27.6
Gas	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	2.9
Coal	1.1	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	3.7
Electricity	7.2	6.9	6.9	6.9	6.8	6.8	7.0	7.0	7.1	7.0	27.0
Heat	4.6	4.1	4.3	4.1	4.0	3.8	4.1	4.0	4.0	3.9	15.0
Biomass	4.9	4.8	5.0	5.0	5.5	5.4	5.5	5.9	6.1	6.2	23.7
Electricity generation, by source	6.9	6.3	6.1	6.1	5.9	5.9	5.9	5.8	6.0	5.9	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Gas	1.0	0.8	0.6	0.6	0.5	0.4	0.3	0.3	0.4	0.3	5.6
Coal	1.8	1.4	1.0	1.2	1.0	0.8	0.9	0.8	0.9	0.7	12.2
Nuclear	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.1	34.8
Hydro	1.1	1.1	1.4	1.1	1.2	1.4	1.4	1.3	1.1	1.1	18.1
Biomass	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.2	1.1	19.5
Wind	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	8.7
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Total final consumption, by sector	26.7	25.3	25.5	25.4	25.3	24.8	25.9	25.9	26.4	25.9	100.0
Industry	11.1	10.9	10.7	10.6	10.6	10.5	10.9	11.1	11.6	11.4	43.8
Transport	4.5	4.5	4.4	4.3	4.2	4.2	4.3	4.3	4.3	4.3	16.7
Residential/Commercial	8.9	7.9	8.4	8.0	7.9	7.6	8.2	8.1	8.1	8.0	31.0
Oil final consumption, by sector	8.2	7.7	7.6	7.9	7.5	7.2	7.8	7.4	7.5	7.2	100.0
Industry	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.1	15.1
Transport	4.3	4.2	4.1	4.0	3.6	3.6	4.0	3.8	3.9	3.9	53.7
Residential/Commercial	0.8	0.7	0.7	0.6	0.6	0.5	0.6	0.6	0.5	0.5	7.3
Natural gas final consumption, by sector	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	100.0
Industry	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	75.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	7.1
Refined products consumption	8.2	7.7	7.6	7.9	7.5	7.2	7.8	7.4	7.5	7.2	100.0
Gasoline	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	18.8
Diesel	4.2	4.0	4.1	3.9	3.6	3.6	4.0	3.8	3.8	3.8	53.1
Heating Oil	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	3.8
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7
LPG	0.5	0.5	0.5	1.1	1.2	1.1	1.1	1.0	1.2	0.8	11.5
Imports	20.1	20.8	19.7	21.3	20.5	18.7	20.5	19.9	20.1	20.6	100.0
Oil	16.3	17.4	16.7	18.5	18.0	16.5	18.4	17.9	18.0	18.5	89.8
Gas	3.8	3.4	3.0	2.9	2.5	2.2	2.1	1.9	2.2	2.1	10.2
Gasoline	0.0	0.0	0.1	0.6	0.5	0.5	0.6	0.6	0.6	0.6	3.1
Diesel	1.9	2.5	2.4	3.1	2.2	1.8	2.0	1.8	1.6	1.6	7.9
Heating Oil	0.7	0.7	0.8	0.8	1.2	1.1	1.2	0.9	0.4	0.6	2.8
Aviation Jet	0.1	0.1	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.3	1.3
LPG	0.3	0.3	0.3	0.8	0.9	0.9	0.8	0.8	0.9	0.8	4.0
Exports	6.9	7.3	7.7	9.2	8.7	7.0	9.2	9.2	9.0	9.0	100.0
Oil	6.9	7.3	7.7	9.2	8.7	7.0	9.2	9.2	9.0	9.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	2.4	2.6	2.6	3.3	3.3	2.5	3.1	3.3	3.2	3.5	39.1
Diesel	3.0	2.9	3.2	4.1	3.7	3.0	3.9	3.8	3.6	3.8	42.8
Heating Oil	0.7	0.9	1.0	1.0	0.8	0.7	1.3	1.1	1.1	0.5	5.0
Aviation Jet	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
CO₂ Emissions (Million tons CO₂)	64.0	56.3	50.8	51.8	47.7	44.4	47.7	45.0	46.4	42.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	275.5	236.4	216.3	222.7	205.7	190.4	199.4	182.7	185.0	167.6	-
Final energy intensity (toe/million \$15ppp)	109.7	101.4	104.1	102.6	102.5	100.2	101.9	99.1	99.3	97.0	-
Total energy intensity (toe/million \$15ppp)	158.6	148.7	145.5	144.8	148.1	139.9	142.4	136.5	136.3	136.2	-

*Heat is included

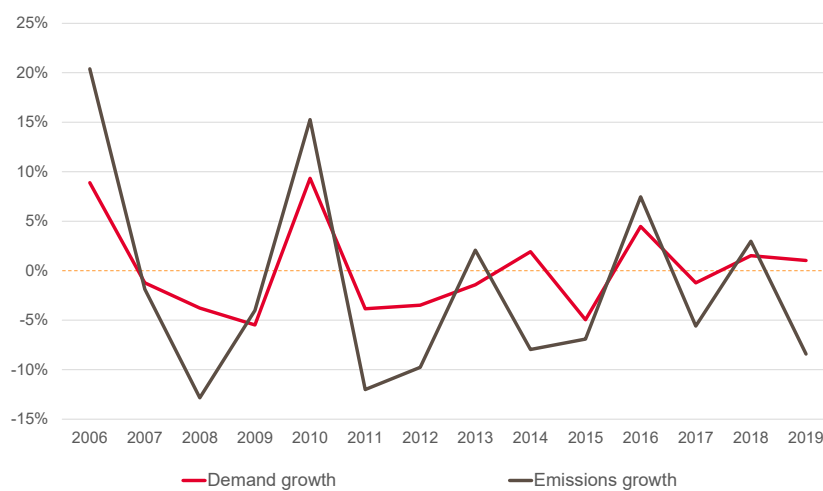
Mix de energía primaria



Electricity generation by source



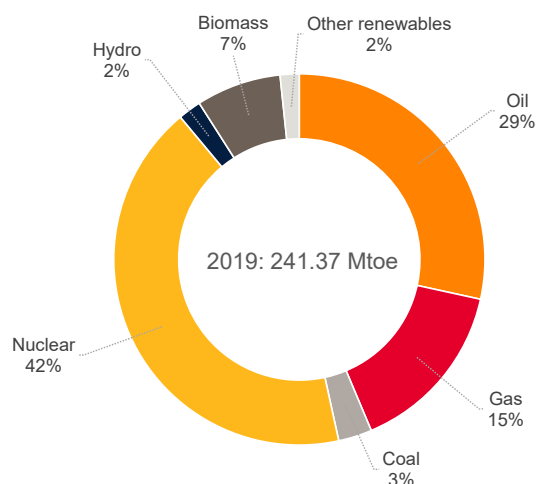
Primary energy demand and CO₂ emissions growth



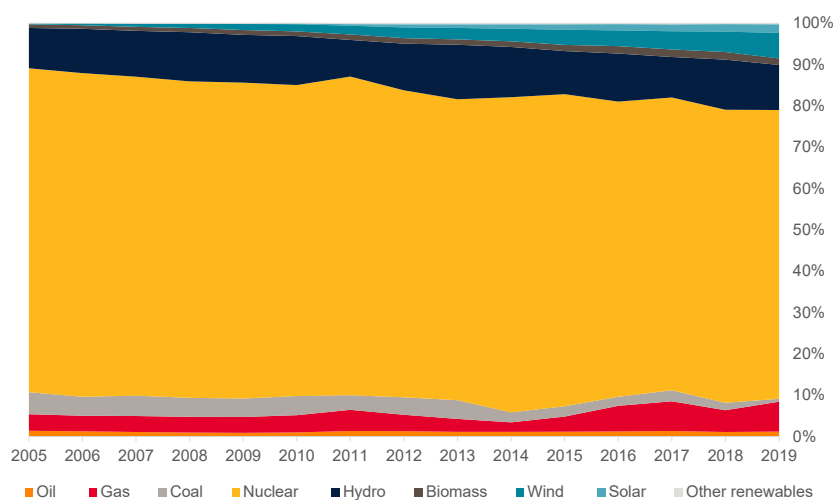
France (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	262.8	257.0	257.1	258.1	248.0	251.8	247.3	247.0	245.9	241.4	100.0
Oil	77.0	78.9	76.5	74.7	74.1	74.8	72.3	72.6	70.1	69.9	28.9
Gas	42.6	37.0	38.2	38.8	32.6	35.0	38.3	38.5	36.7	37.4	15.5
Coal	12.0	11.3	12.5	13.2	9.8	9.3	9.1	9.9	9.0	7.2	3.0
Nuclear	111.7	115.3	110.9	110.4	113.7	114.0	105.1	103.8	107.6	104.0	43.1
Hydro	5.4	3.9	5.1	6.2	5.5	4.8	5.2	4.3	5.6	4.9	2.0
Biomass	15.7	13.9	15.6	16.6	15.6	16.4	17.8	17.9	18.3	18.2	7.5
Other renewables	0.9	1.2	1.7	1.8	2.0	2.5	2.6	2.9	3.4	4.1	1.7
Electricity balance of trade*	-2.4	-4.5	-3.4	-3.7	-5.3	-5.0	-3.1	-2.9	-4.8	-4.3	-1.8
Total final consumption, by source	161.6	154.4	158.7	161.1	151.4	153.4	155.2	156.0	153.3	152.5	100.0
Oil	71.1	70.8	70.1	69.5	68.3	68.3	66.9	67.6	65.2	64.9	42.6
Gas	33.0	29.5	31.4	32.9	27.9	28.8	30.2	29.7	29.4	28.5	18.7
Coal	4.7	4.6	4.5	4.6	4.7	4.4	4.3	4.8	4.9	5.1	3.4
Electricity	38.2	36.3	37.9	38.5	36.3	37.1	37.7	37.5	37.3	36.9	24.2
Heat	2.9	3.0	3.1	3.2	3.0	3.1	3.6	3.9	4.0	4.0	2.6
Biomass	11.7	10.2	11.7	12.5	11.2	11.7	12.5	12.5	12.6	13.0	8.6
Electricity generation, by source	49.0	49.3	49.2	50.0	49.2	49.8	48.5	48.3	50.1	49.1	100.0
Oil	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.6	1.2
Gas	2.0	2.5	2.0	1.6	1.1	1.8	3.0	3.5	2.6	3.5	7.2
Coal	2.3	1.7	2.1	2.3	1.2	1.3	1.1	1.3	0.9	0.3	0.7
Nuclear	36.9	38.0	36.6	36.4	37.5	37.6	34.7	34.3	35.5	34.3	69.9
Hydro	5.8	4.4	5.6	6.6	6.0	5.2	5.6	4.7	6.1	5.3	10.9
Biomass	0.6	0.7	0.7	0.6	0.7	0.7	0.9	0.9	0.9	0.8	1.6
Wind	0.9	1.0	1.3	1.4	1.5	1.8	1.8	2.1	2.5	3.0	6.2
Solar	0.1	0.2	0.4	0.4	0.5	0.7	0.7	0.8	0.9	1.0	2.1
Other renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Total final consumption, by sector	161.6	154.4	158.7	161.1	151.4	153.4	155.2	156.0	153.3	152.5	100.0
Industry	30.6	30.9	30.4	30.6	29.7	29.0	29.7	29.9	30.5	30.6	20.1
Transport	44.1	45.1	44.9	44.6	44.9	45.3	45.2	45.6	44.9	44.7	29.3
Residential/Commercial	68.4	59.6	64.8	67.5	57.9	60.6	62.7	62.2	60.8	60.5	39.7
Oil final consumption, by sector	71.1	70.8	70.1	69.5	68.3	68.3	66.9	67.6	65.2	64.9	100.0
Industry	2.9	3.6	3.2	2.9	2.7	2.7	2.7	2.5	2.3	2.7	4.1
Transport	40.7	41.8	41.3	41.0	41.0	41.3	41.2	41.3	40.6	40.4	62.2
Residential/Commercial	11.1	9.0	9.5	9.6	8.1	8.3	8.0	8.1	7.8	7.7	11.9
Natural gas final consumption, by sector	33.0	29.5	31.4	32.9	27.9	28.8	30.2	29.7	29.4	28.5	100.0
Industry	11.1	10.3	10.1	10.6	10.0	9.7	10.1	9.7	10.1	9.8	34.3
Transport	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Residential/Commercial	20.6	17.9	20.0	21.0	16.5	17.7	18.7	18.6	17.8	17.3	60.7
Refined products consumption	71.1	70.8	70.1	69.5	68.3	68.3	66.9	67.6	65.2	64.9	100.0
Gasoline	7.7	7.6	7.2	7.0	7.0	7.1	7.2	7.5	7.8	8.2	12.6
Diesel	45.9	45.6	45.9	46.0	44.6	45.3	44.5	44.5	43.1	42.3	65.1
Heating Oil	1.0	1.0	0.9	0.7	0.6	0.6	0.5	0.3	0.2	0.2	0.3
Aviation Jet	1.3	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.8
LPG	4.1	3.9	3.9	4.2	4.5	4.4	4.3	4.2	4.0	4.0	6.1
Imports	148.4	151.8	145.9	144.1	140.4	142.5	140.4	143.8	140.8	139.8	100.0
Oil	106.3	107.8	103.5	101.6	100.2	103.1	99.2	100.7	97.1	95.5	68.3
Gas	42.1	44.0	42.3	42.5	40.2	39.4	41.2	43.1	43.7	44.3	31.7
Gasoline	0.9	0.5	0.4	0.4	0.5	0.7	1.3	1.5	1.5	1.5	1.1
Diesel	19.7	20.7	24.0	24.5	24.0	25.2	22.8	22.3	23.1	25.0	17.9
Heating Oil	7.8	8.2	6.3	5.4	5.4	3.6	4.0	3.4	3.3	2.6	1.9
Aviation Jet	4.0	3.7	4.2	4.4	4.5	4.8	4.7	4.5	5.9	6.1	4.4
LPG	3.0	2.9	3.2	3.6	4.1	3.9	3.8	3.6	3.7	3.9	2.8
Exports	25.7	27.4	25.4	23.7	25.7	26.2	24.2	26.1	25.6	22.7	100.0
Oil	23.1	21.6	20.0	19.2	19.3	21.4	20.9	20.6	20.3	17.3	76.5
Gas	2.6	5.8	5.4	4.5	6.4	4.9	3.3	5.4	5.3	5.3	23.5
Gasoline	6.2	4.9	4.5	3.7	4.0	4.3	4.8	4.6	3.3	2.7	11.9
Diesel	3.6	2.5	2.9	2.0	1.8	2.8	2.1	2.6	2.2	2.7	11.9
Heating Oil	6.1	6.2	5.6	5.4	5.7	6.3	5.6	4.6	4.4	3.7	16.5
Aviation Jet	1.3	0.7	0.8	1.0	1.1	1.2	1.0	1.2	2.1	1.8	8.0
LPG	1.1	1.3	1.4	1.4	1.2	1.4	1.3	1.3	1.2	1.0	4.4
CO₂ Emissions (Million tons CO₂)	356.6	338.1	342.9	342.6	310.7	316.8	317.8	322.6	309.1	301.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	138.0	128.1	129.5	128.6	115.6	116.5	115.5	114.8	108.1	104.2	-
Final energy intensity (toe/million \$15ppp)	57.1	53.1	54.6	55.3	50.9	51.3	51.5	50.5	49.1	48.3	-
Total energy intensity (toe/million \$15ppp)	101.7	97.4	97.1	96.9	92.2	92.6	89.9	87.9	86.0	83.3	-

*Heat is included

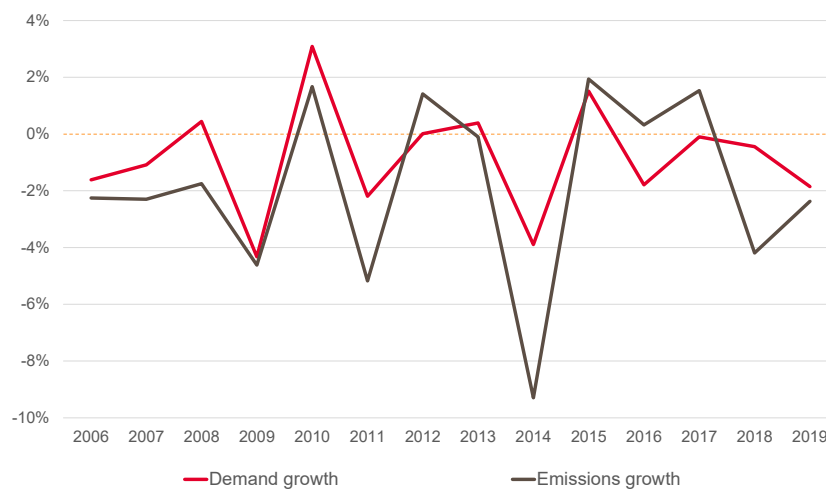
Primary energy demand mix



Electricity generation by source



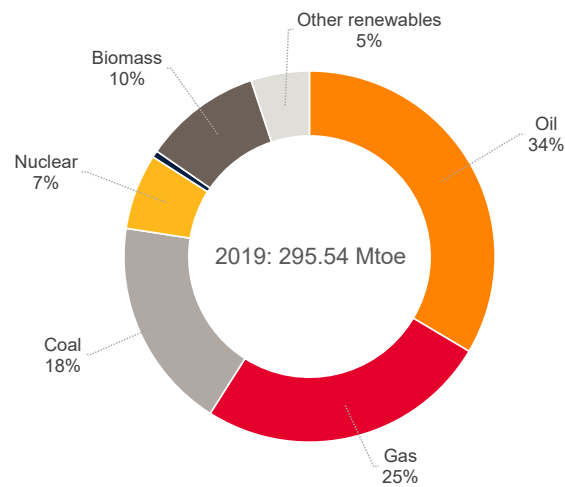
Primary energy demand and CO₂ emissions growth



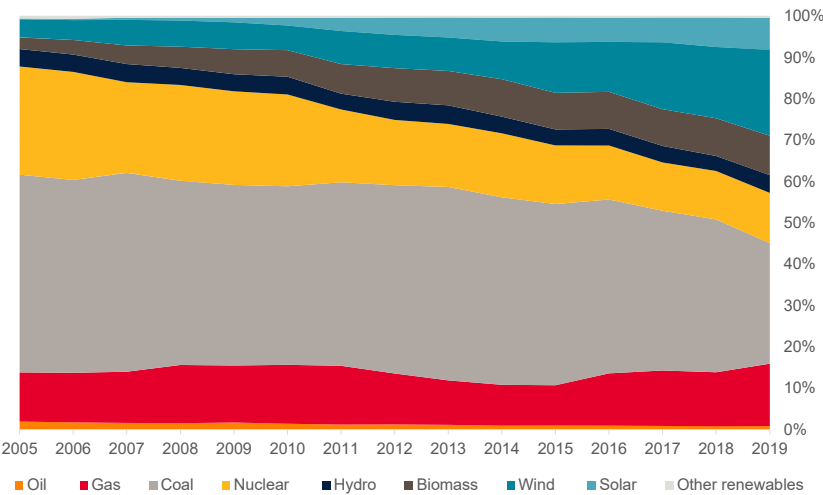
Germany (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	326.5	310.1	311.4	318.1	306.2	308.3	310.2	311.4	301.8	295.5	100.0
Oil	104.7	101.2	100.8	103.2	101.0	101.2	101.4	103.0	97.7	99.6	33.7
Gas	75.9	69.6	69.8	73.1	63.4	65.1	70.3	75.3	73.2	75.6	25.6
Coal	78.9	78.1	80.2	81.6	79.6	79.4	77.2	71.4	68.9	54.9	18.6
Nuclear	36.6	28.1	25.9	25.4	25.3	23.9	22.1	19.9	19.8	19.6	6.6
Hydro	1.8	1.5	1.9	2.0	1.7	1.6	1.8	1.7	1.5	1.7	0.6
Biomass	24.8	25.1	27.1	27.7	29.2	29.9	30.7	31.0	30.1	30.6	10.4
Other renewables	4.3	5.9	6.6	7.1	8.0	10.1	10.0	12.5	13.6	15.1	5.1
Electricity balance of trade*	-0.5	0.5	-0.9	-1.9	-1.9	-3.1	-3.3	-3.5	-3.0	-1.6	-0.5
Total final consumption, by source	234.3	223.6	225.8	231.2	222.5	226.4	229.5	233.1	226.6	228.0	100.0
Oil	94.7	91.9	91.8	94.1	92.1	92.1	92.2	94.1	89.8	91.6	40.2
Gas	56.0	50.2	52.0	55.0	49.7	51.4	53.9	55.0	53.5	53.5	23.5
Coal	13.0	13.2	13.3	13.2	13.2	14.1	13.7	13.7	13.6	13.4	5.9
Electricity	45.8	45.2	45.2	45.0	44.1	44.3	44.5	44.6	44.1	43.5	19.1
Heat	11.8	10.6	10.9	11.0	9.9	10.3	10.5	10.6	10.4	10.2	4.5
Biomass	13.1	12.5	12.5	12.9	13.5	14.2	14.7	15.2	15.2	15.7	6.9
Electricity generation, by source	54.4	52.7	54.2	54.9	54.0	55.6	55.8	56.2	55.6	52.9	100.0
Oil	0.8	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.8
Gas	7.8	7.5	6.7	5.9	5.4	5.4	7.1	7.5	7.3	8.0	15.1
Coal	23.5	23.4	24.7	25.7	24.5	24.4	23.5	21.7	20.6	15.4	29.1
Nuclear	12.1	9.3	8.6	8.4	8.4	7.9	7.3	6.6	6.5	6.5	12.2
Hydro	2.4	2.0	2.4	2.5	2.2	2.1	2.2	2.2	2.0	2.3	4.3
Biomass	3.5	3.8	4.4	4.6	4.9	4.9	5.0	5.0	5.1	5.1	9.5
Wind	3.3	4.2	4.4	4.4	4.9	6.8	6.8	9.1	9.6	11.0	20.8
Solar	1.0	1.7	2.3	2.7	3.1	3.3	3.3	3.4	4.0	4.1	7.8
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
Total final consumption, by sector	234.3	223.6	225.8	231.2	222.5	226.4	229.5	233.1	226.6	228.0	100.0
Industry	61.1	61.4	61.2	61.3	61.4	61.8	62.0	62.9	62.5	61.3	26.9
Transport	53.4	53.8	53.4	54.4	55.2	55.9	57.0	57.8	57.9	58.7	25.7
Residential/Commercial	96.5	85.2	88.8	93.1	83.2	86.9	88.5	88.9	85.7	86.8	38.1
Oil final consumption, by sector	94.7	91.9	91.8	94.1	92.1	92.1	92.2	94.1	89.8	91.6	100.0
Industry	4.1	3.5	3.2	3.1	2.8	3.0	2.4	2.2	2.0	2.1	2.3
Transport	49.1	49.7	49.1	50.4	51.1	52.0	53.1	53.9	53.9	54.6	59.6
Residential/Commercial	21.7	19.1	20.1	21.7	19.0	18.5	18.3	18.1	17.0	17.3	18.8
Natural gas final consumption, by sector	56.0	50.2	52.0	55.0	49.7	51.4	53.9	55.0	53.5	53.5	100.0
Industry	19.6	19.0	19.1	19.2	18.7	18.7	19.2	20.4	20.4	20.3	37.8
Transport	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3
Residential/Commercial	33.8	28.7	30.7	33.2	28.3	30.2	32.0	31.9	30.3	30.5	57.0
Refined products consumption	94.7	91.9	91.8	94.1	92.1	92.1	92.2	94.1	89.8	91.6	100.0
Gasoline	19.4	19.3	18.1	18.1	18.2	17.9	17.9	18.2	20.9	21.1	23.0
Diesel	51.1	48.8	50.3	52.9	50.5	51.3	52.0	52.8	49.1	49.8	54.3
Heating Oil	3.0	3.0	3.0	2.5	2.5	2.7	1.5	1.5	1.5	1.4	1.6
Aviation Jet	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8
LPG	3.1	3.0	3.1	3.2	2.7	2.8	2.9	3.8	3.2	3.5	3.8
Imports	209.5	200.4	201.7	212.3	203.7	216.6	213.6	229.6	224.9	224.6	100.0
Oil	130.7	125.3	127.6	130.3	128.4	130.7	132.0	133.9	127.1	129.6	57.7
Gas	78.8	75.1	74.1	81.9	75.3	85.9	81.6	95.7	97.8	94.9	42.3
Gasoline	2.1	2.0	1.6	1.9	1.9	2.0	1.6	2.3	2.5	3.3	1.5
Diesel	15.9	13.8	13.8	18.0	17.1	18.7	19.5	19.7	18.7	20.0	8.9
Heating Oil	2.6	2.7	2.3	2.4	2.4	1.8	2.4	2.2	2.0	1.5	0.7
Aviation Jet	4.7	4.3	5.0	5.4	4.9	5.1	5.1	6.1	6.7	6.9	3.1
LPG	1.0	1.0	1.2	1.1	0.7	0.8	0.9	1.0	1.2	1.4	0.6
Exports	35.7	33.1	33.1	38.5	39.8	49.7	42.1	50.3	49.9	45.3	100.0
Oil	18.6	18.3	18.8	20.1	21.1	22.5	22.8	23.4	22.5	21.9	48.3
Gas	17.2	14.7	14.3	18.4	18.7	27.2	19.3	26.9	27.4	23.4	51.7
Gasoline	5.1	5.0	5.2	5.3	5.0	4.6	5.3	6.0	5.3	5.1	11.2
Diesel	6.8	6.5	6.3	7.0	7.7	8.4	9.5	9.0	8.2	7.6	16.9
Heating Oil	1.7	1.9	2.0	2.6	3.0	2.9	2.1	1.8	2.5	2.5	5.5
Aviation Jet	0.7	0.8	1.2	1.2	0.9	1.2	0.9	1.3	1.4	1.4	3.2
LPG	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.6
CO₂ Emissions (Million tons CO₂)	780.9	751.9	767.8	788.6	749.7	754.5	758.9	745.5	719.5	673.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	216.8	201.4	204.6	209.2	194.6	192.5	189.4	182.1	173.1	161.0	-
Final energy intensity (toe/million \$15ppp)	58.8	53.9	54.4	55.6	52.0	52.4	51.9	51.4	49.7	49.6	-
Total energy intensity (toe/million \$15ppp)	90.7	83.1	83.0	84.4	79.5	78.7	77.4	76.1	72.6	70.7	-

*Heat is included

Primary energy demand mix



Electricity generation by source



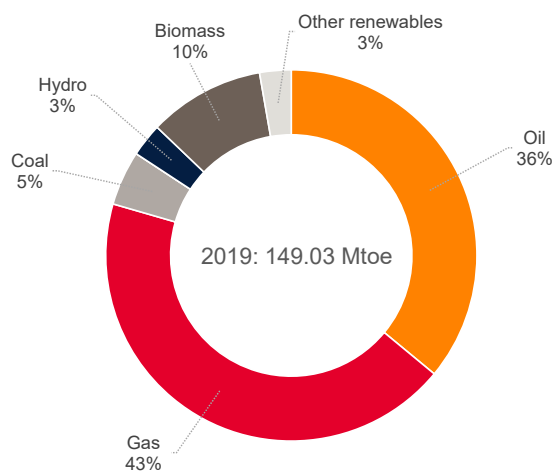
Primary energy demand and CO₂ emissions growth



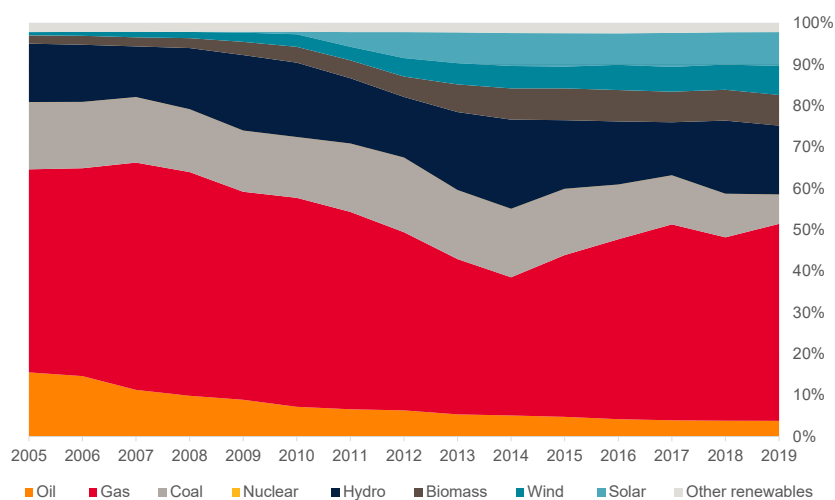
Italy (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	173.9	168.2	161.5	155.6	146.9	152.7	151.2	153.6	150.8	149.0	100.0
Oil	65.3	62.7	55.6	53.3	51.6	53.6	51.5	52.0	50.9	50.4	33.8
Gas	68.0	63.8	61.3	57.4	50.7	55.3	58.1	61.5	59.5	60.9	40.8
Coal	13.7	15.3	15.7	13.5	13.1	12.3	11.0	9.3	8.5	6.7	4.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.4	3.9	3.6	4.5	5.0	3.9	3.6	3.1	4.3	4.0	2.7
Biomass	12.7	11.3	13.5	14.6	14.0	14.6	14.4	14.9	14.5	14.2	9.5
Other renewables	0.9	1.8	2.8	3.1	3.2	3.2	3.4	3.6	3.5	3.8	2.6
Electricity balance of trade*	8.9	9.3	9.0	9.0	9.4	9.8	9.2	9.1	9.6	9.1	6.1
Total final consumption, by source	135.0	129.1	126.5	121.7	117.4	119.6	118.9	119.6	120.0	117.5	100.0
Oil	54.4	53.7	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.1	38.4
Gas	39.1	35.8	35.7	35.4	31.2	33.4	33.7	34.4	34.0	32.9	28.0
Coal	3.2	3.7	3.5	2.6	2.7	2.0	2.2	1.6	2.1	2.1	1.8
Electricity	25.7	25.9	25.5	24.7	24.2	24.7	24.6	25.1	25.2	25.0	21.3
Heat	3.6	3.5	3.7	4.0	4.0	4.2	4.3	4.5	4.6	4.5	3.8
Biomass	9.0	6.5	8.6	8.5	7.4	8.3	8.0	8.6	8.3	7.9	6.7
Electricity generation, by source	26.0	26.0	25.7	24.9	24.1	24.3	24.9	25.4	24.9	25.2	100.0
Oil	1.9	1.7	1.6	1.3	1.2	1.2	1.0	1.0	0.9	1.0	3.8
Gas	13.1	12.4	11.1	9.4	8.1	9.5	10.8	12.1	11.1	12.0	47.7
Coal	3.8	4.3	4.7	4.2	4.0	3.9	3.3	3.0	2.6	1.8	7.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.7	4.1	3.8	4.7	5.2	4.0	3.8	3.3	4.4	4.2	16.6
Biomass	1.0	1.1	1.3	1.7	1.8	1.9	1.9	1.9	1.9	1.9	7.4
Wind	0.8	0.8	1.2	1.3	1.3	1.3	1.5	1.5	1.5	1.8	7.0
Solar	0.2	0.9	1.6	1.9	1.9	2.0	1.9	2.1	1.9	2.1	8.2
Other renewables	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	2.1
Total final consumption, by sector	135.0	129.1	126.5	121.7	117.4	119.6	118.9	119.6	120.0	117.5	100.0
Industry	31.2	30.2	28.7	26.6	26.0	26.0	26.2	25.7	25.4	25.0	21.2
Transport	38.9	38.6	36.8	35.9	37.2	36.3	35.9	34.5	35.6	35.3	30.0
Residential/Commercial	52.4	48.1	50.3	50.1	44.2	47.9	47.6	48.5	48.8	47.5	40.5
Oil final consumption, by sector	54.4	53.7	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.1	100.0
Industry	3.3	3.4	2.8	2.4	1.9	2.8	2.5	1.8	1.9	1.8	4.0
Transport	35.9	35.6	33.8	32.9	34.4	33.3	33.0	31.7	32.5	32.2	71.4
Residential/Commercial	4.2	3.8	3.4	3.3	2.8	2.9	2.8	2.6	2.7	2.7	6.1
Natural gas final consumption, by sector	39.1	35.8	35.7	35.4	31.2	33.4	33.7	34.4	34.0	32.9	100.0
Industry	10.3	9.3	9.0	8.7	8.5	8.3	8.4	8.9	8.6	8.4	25.4
Transport	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.9	0.8	2.6
Residential/Commercial	27.3	25.2	25.4	25.3	21.2	23.5	23.6	23.8	23.7	22.9	69.8
Refined products consumption	54.4	53.7	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.1	100.0
Gasoline	10.5	10.0	9.3	8.7	8.8	8.2	7.8	7.6	7.8	7.8	17.3
Diesel	28.7	28.4	26.7	25.8	26.8	26.2	26.1	24.6	25.6	25.2	55.8
Heating Oil	1.4	1.4	1.2	1.2	1.2	1.5	1.7	1.3	1.2	1.2	2.6
Aviation Jet	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.0	2.3
LPG	3.7	3.5	3.6	3.6	3.5	3.6	3.6	3.7	3.5	3.6	8.0
Imports	158.6	147.4	140.9	128.7	116.9	130.9	135.2	142.0	137.1	138.2	100.0
Oil	96.9	89.8	85.4	78.0	71.3	80.7	81.8	85.0	81.5	80.1	58.0
Gas	61.7	57.6	55.5	50.7	45.7	50.2	53.5	57.0	55.6	58.1	42.0
Gasoline	0.1	0.1	0.0	0.4	0.4	0.5	0.4	0.1	0.4	0.4	0.3
Diesel	2.5	2.6	2.1	3.1	3.2	3.1	4.5	5.1	5.4	4.6	3.3
Heating Oil	0.9	0.8	0.6	0.5	0.3	0.3	0.8	0.8	1.6	1.0	0.7
Aviation Jet	0.9	1.3	1.1	1.5	1.6	1.9	2.1	2.3	2.4	2.6	1.9
LPG	2.3	2.2	2.3	2.6	2.4	2.5	2.6	2.6	2.5	2.6	1.9
Exports	30.2	27.6	30.5	25.1	21.4	28.5	30.1	32.4	30.2	28.2	100.0
Oil	30.1	27.5	30.4	24.9	21.2	28.3	29.9	32.1	29.9	27.9	99.1
Gas	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.9
Gasoline	9.4	8.9	9.7	8.3	7.4	9.0	8.5	8.9	8.9	8.9	31.7
Diesel	10.8	9.5	10.9	8.6	5.6	9.1	9.5	10.4	9.1	9.5	33.7
Heating Oil	3.2	2.7	3.0	2.1	2.7	3.9	4.5	5.0	4.3	3.6	12.7
Aviation Jet	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.3	0.3	1.2
LPG	0.5	0.4	0.4	0.5	0.2	0.3	0.4	0.3	0.2	0.3	1.0
CO₂ Emissions (Million tons CO₂)	402.0	393.4	374.8	343.7	328.1	335.9	333.0	329.2	323.5	317.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	174.4	169.7	166.4	155.2	148.0	150.2	147.2	143.2	139.7	136.7	-
Final energy intensity (toe/million \$15ppp)	54.4	51.7	52.7	52.1	49.7	50.5	49.7	48.6	48.7	47.7	-
Total energy intensity (toe/million \$15ppp)	75.5	72.5	71.7	70.3	66.3	68.3	66.8	66.8	65.1	64.1	-

*Heat is included

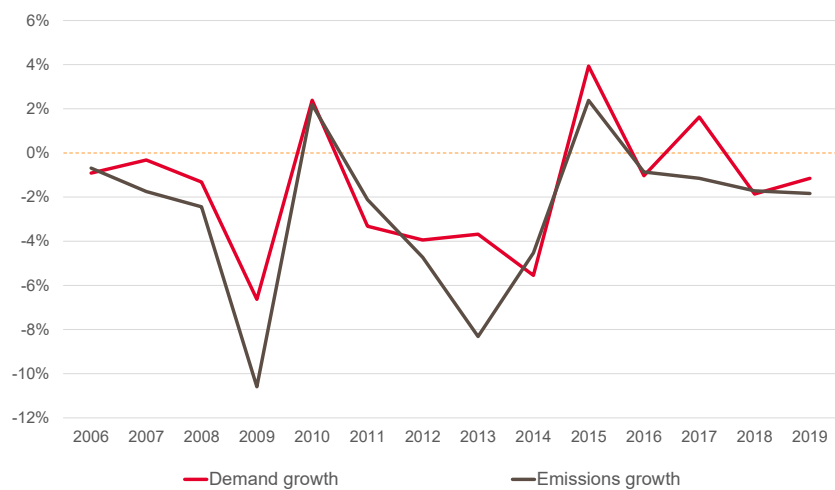
Primary energy demand mix



Electricity generation by source



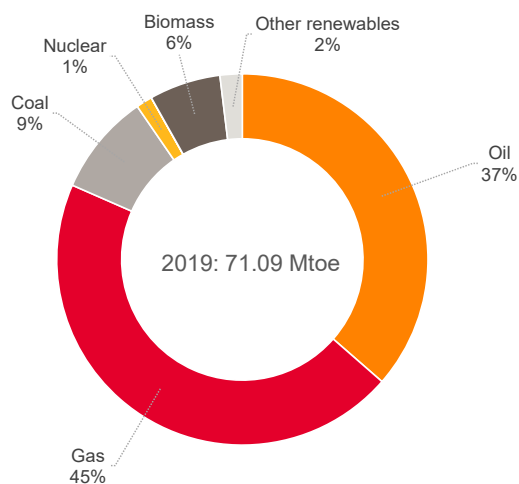
Primary energy demand and CO₂ emissions growth



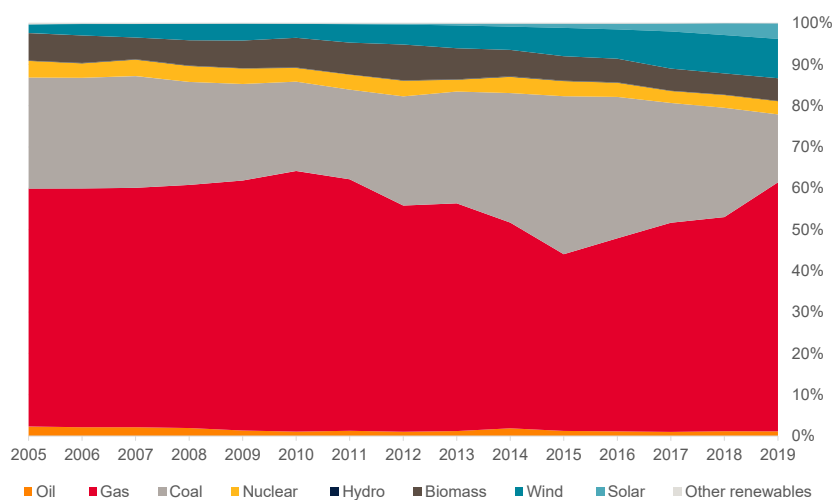
Netherlands (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	82.7	77.0	77.1	75.4	71.1	72.1	73.6	74.2	73.1	71.1	100.0
Oil	29.9	28.4	28.6	27.4	26.4	26.3	27.4	27.9	27.2	25.8	36.3
Gas	40.1	35.0	33.5	33.4	29.1	28.6	30.0	30.9	30.7	32.0	45.0
Coal	7.5	7.4	8.2	8.1	9.0	10.9	10.1	9.1	8.1	6.3	8.8
Nuclear	1.0	1.1	1.0	0.8	1.1	1.1	1.0	0.9	0.9	1.0	1.4
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.6	3.7	3.8	3.7	3.6	3.6	3.7	3.7	4.1	4.4	6.2
Other renewables	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.1	1.2	1.4	1.9
Electricity balance of trade*	0.3	0.8	1.5	1.6	1.3	0.9	0.5	0.6	0.9	0.3	0.4
Total final consumption, by source	66.6	61.8	62.5	61.5	56.9	57.9	59.0	60.2	59.5	58.8	100.0
Oil	26.6	25.3	25.4	24.5	23.5	23.7	24.7	25.4	25.1	26.1	44.3
Gas	24.7	21.1	22.0	22.1	18.8	19.6	19.7	20.0	19.4	17.9	30.5
Coal	2.0	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.0	3.4
Electricity	9.3	9.3	9.0	9.0	8.7	9.0	9.1	9.1	9.2	9.1	15.5
Heat	3.0	2.9	2.7	2.7	2.7	2.3	2.3	2.2	2.1	2.1	3.6
Biomass	1.0	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.5	1.5	2.6
Electricity generation, by source	10.3	9.8	8.9	8.7	8.9	9.5	9.9	10.1	9.8	10.3	100.0
Oil	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	1.1
Gas	6.5	6.0	4.9	4.8	4.4	4.1	4.6	5.1	5.1	6.2	60.4
Coal	2.2	2.1	2.3	2.4	2.8	3.6	3.4	2.9	2.6	1.7	16.5
Nuclear	0.3	0.4	0.3	0.2	0.4	0.4	0.3	0.3	0.3	0.3	3.2
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Biomass	0.7	0.8	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.6	5.5
Wind	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.9	0.9	1.0	9.5
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	3.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	66.6	61.8	62.5	61.5	56.9	57.9	59.0	60.2	59.5	58.8	100.0
Industry	16.1	15.7	15.6	15.3	15.0	15.2	15.6	15.8	15.4	15.2	25.8
Transport	11.7	11.8	11.4	11.1	10.3	10.4	10.5	10.7	11.2	11.5	19.6
Residential/Commercial	20.3	17.2	18.1	18.7	15.5	16.3	16.4	16.4	16.3	15.6	26.4
Oil final consumption, by sector	26.6	25.3	25.4	24.5	23.5	23.7	24.7	25.4	25.1	26.1	100.0
Industry	3.4	3.0	3.4	3.1	3.2	3.1	3.5	3.5	3.5	3.7	14.4
Transport	11.3	11.3	10.9	10.6	9.8	9.9	10.0	10.2	10.4	10.8	41.2
Residential/Commercial	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.9
Natural gas final consumption, by sector	24.7	21.1	22.0	22.1	18.8	19.6	19.7	20.0	19.4	17.9	100.0
Industry	5.0	4.9	4.8	4.8	4.6	5.1	5.1	5.3	5.1	4.7	26.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	13.8	10.8	11.7	12.2	9.3	9.9	10.1	10.0	9.9	9.1	50.7
Refined products consumption	23.8	22.4	22.9	21.9	20.7	21.5	22.4	23.3	23.4	24.6	100.0
Gasoline	4.2	4.2	4.0	3.9	3.8	3.9	4.0	4.1	4.2	4.3	17.6
Diesel	7.8	7.8	7.4	7.4	6.8	7.0	6.9	7.0	7.1	7.4	29.9
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LPG	1.5	1.6	1.2	2.0	2.6	2.8	2.3	2.1	2.4	2.0	8.3
Imports	164.3	160.3	168.2	166.3	163.7	184.8	189.1	191.5	192.9	188.8	100.0
Oil	145.8	143.2	148.2	144.5	141.4	155.6	156.0	152.7	150.6	151.2	80.1
Gas	18.4	17.2	20.1	21.8	22.3	29.2	33.1	38.8	42.3	37.5	19.9
Gasoline	9.9	10.8	12.5	10.2	10.0	10.4	10.4	11.3	8.0	7.6	4.0
Diesel	19.2	18.7	18.5	18.2	15.7	16.6	19.2	17.1	12.1	12.9	6.9
Heating Oil	29.0	32.7	31.7	32.4	33.5	36.9	30.2	15.3	12.2	11.2	6.0
Aviation Jet	3.9	2.7	2.7	4.0	2.7	3.2	4.6	3.7	3.4	3.5	1.9
LPG	1.6	2.2	1.7	2.8	3.8	5.0	4.0	3.5	4.4	3.6	1.9
Exports	144.1	141.0	148.8	153.4	146.1	152.6	157.7	153.3	149.8	143.3	100.0
Oil	101.5	99.9	103.3	102.6	102.0	112.9	114.8	113.2	110.4	107.7	75.2
Gas	42.6	41.1	45.5	50.8	44.1	39.7	42.9	40.2	39.4	35.6	24.8
Gasoline	17.1	15.6	20.2	18.2	19.8	21.9	20.6	21.3	24.3	27.0	18.8
Diesel	31.7	31.4	29.8	30.0	28.2	27.2	30.7	29.7	23.3	24.2	16.9
Heating Oil	25.6	26.3	27.0	27.0	28.2	35.1	30.3	14.4	10.4	9.3	6.5
Aviation Jet	6.8	6.5	6.0	7.0	6.2	6.7	8.4	7.7	8.4	8.3	5.8
LPG	1.1	1.6	1.7	1.6	1.8	2.8	2.7	2.3	2.4	2.3	1.6
CO₂ Emissions (Million tons CO₂)	190.8	178.5	176.8	175.2	168.3	175.5	175.6	173.6	167.1	170.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	232.4	214.1	214.2	212.6	201.4	206.0	201.7	193.8	181.8	182.2	-
Final energy intensity (toe/million \$15ppp)	63.7	58.1	59.1	59.2	53.0	53.6	53.2	52.1	50.8	49.1	-
Total energy intensity (toe/million \$15ppp)	100.8	92.3	93.4	91.6	85.1	84.6	84.6	82.8	79.5	76.0	-

*Heat is included

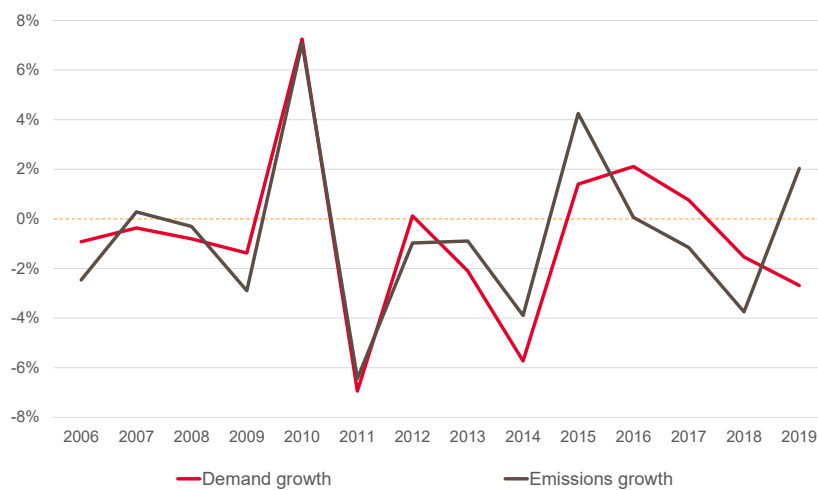
Primary energy demand mix



Electricity generation by source



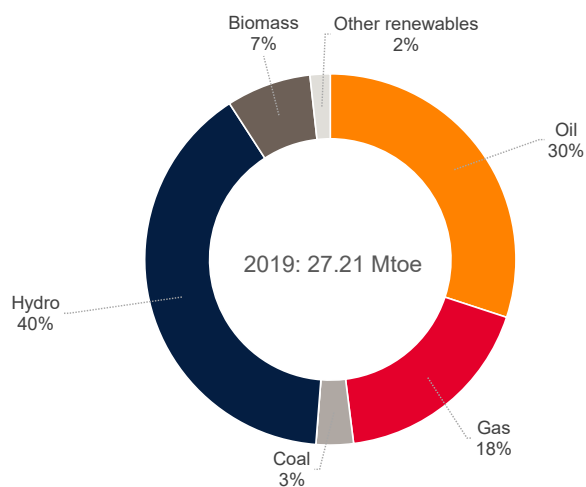
Primary energy demand and CO₂ emissions growth



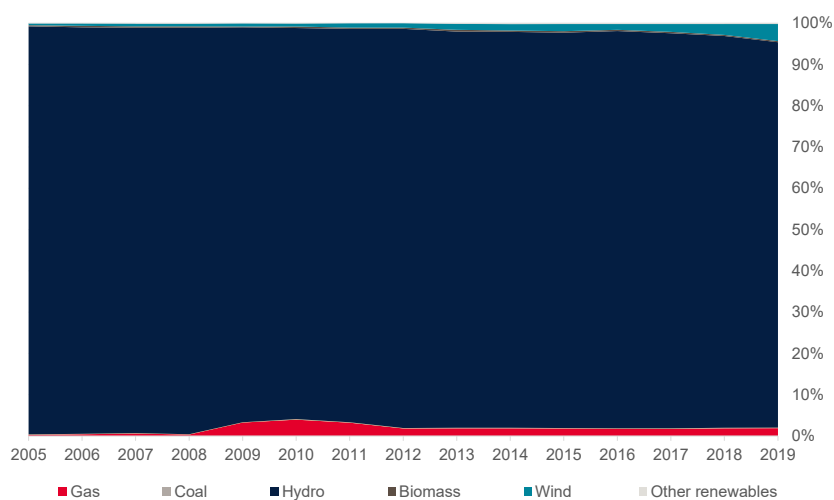
Norway (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	29.7	26.7	27.8	28.8	28.7	28.8	27.7	28.9	28.1	27.2	100.0
Oil	10.1	8.7	9.0	10.0	10.1	9.5	8.6	10.3	8.6	8.2	30.0
Gas	6.3	5.1	5.4	5.6	5.8	6.1	5.6	4.7	5.3	4.9	17.9
Coal	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.9	3.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	10.0	10.3	12.2	11.0	11.7	11.8	12.3	12.2	11.9	10.8	39.6
Biomass	1.8	1.8	1.7	1.6	1.4	1.5	1.7	1.9	2.0	2.0	7.4
Other renewables	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	1.8
Electricity balance of trade*	0.7	-0.2	-1.5	-0.4	-1.3	-1.2	-1.4	-1.3	-0.8	0.0	0.1
Total final consumption, by source	21.4	20.8	20.9	20.7	20.2	20.5	20.7	20.8	21.1	20.6	100.0
Oil	8.5	8.3	8.2	7.9	7.8	7.8	7.6	7.4	7.6	7.3	35.2
Gas	0.8	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.8	3.9
Coal	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	3.4
Electricity	9.7	9.3	9.5	9.5	9.3	9.6	9.8	9.8	9.9	9.9	47.9
Heat	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	2.7
Biomass	1.4	1.4	1.3	1.2	1.0	1.0	1.2	1.4	1.4	1.4	6.9
Electricity generation, by source	10.6	11.0	12.7	11.5	12.2	12.4	12.9	12.8	12.6	11.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	10.1	10.5	12.3	11.1	11.7	11.9	12.4	12.3	12.0	10.8	93.4
Biomass	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Wind	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	4.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total final consumption, by sector	21.4	20.8	20.9	20.7	20.2	20.5	20.7	20.8	21.1	20.6	100.0
Industry	6.3	6.3	6.1	6.1	6.0	6.1	6.0	6.2	6.4	6.3	30.4
Transport	5.1	5.1	5.2	5.0	4.9	4.9	5.0	4.6	4.6	4.5	21.8
Residential/Commercial	7.3	6.6	6.9	6.9	6.5	6.6	6.9	6.9	7.0	7.0	33.8
Oil final consumption, by sector	8.5	8.3	8.2	7.9	7.8	7.8	7.6	7.4	7.6	7.3	100.0
Industry	1.0	1.0	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.9	12.4
Transport	4.9	4.9	4.9	4.7	4.6	4.6	4.5	4.0	3.9	3.8	52.9
Residential/Commercial	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	4.0
Natural gas final consumption, by sector	0.8	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.8	100.0
Industry	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	31.9
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	10.1
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.5
Refined products consumption	8.5	8.3	8.2	7.9	7.8	7.8	7.6	7.4	7.6	7.3	100.0
Gasoline	1.3	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.8	0.8	10.4
Diesel	4.2	4.2	4.3	4.2	4.0	4.0	4.0	3.7	3.7	3.6	49.3
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Aviation Jet	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	5.4
LPG	0.9	0.8	0.7	0.9	0.8	0.8	0.6	0.6	0.7	0.5	6.6
Imports	6.3	5.5	5.7	6.8	5.5	6.4	6.7	7.9	8.9	8.2	100.0
Oil	6.3	5.5	5.7	6.8	5.5	6.4	6.7	7.9	8.9	8.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.5	5.8
Diesel	1.2	1.2	1.5	1.3	1.1	1.7	1.8	1.7	1.6	1.8	21.8
Heating Oil	1.7	1.3	1.1	1.9	1.1	1.6	1.3	1.8	1.4	0.9	10.6
Aviation Jet	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	2.5
LPG	0.4	0.3	0.3	0.3	0.2	0.2	0.9	0.2	0.3	0.2	2.7
Exports	179.4	172.3	175.8	167.5	170.2	179.3	185.2	194.3	185.0	178.6	100.0
Oil	90.9	86.9	79.8	76.8	80.2	82.6	88.4	90.3	83.8	83.1	46.5
Gas	88.5	85.4	96.0	90.7	90.0	96.7	96.7	104.0	101.2	95.6	53.5
Gasoline	2.1	3.0	2.8	2.6	2.3	3.3	3.5	3.8	3.9	3.9	2.2
Diesel	2.1	3.0	2.6	2.7	2.8	3.4	2.7	4.3	3.9	4.1	2.3
Heating Oil	1.7	1.8	1.6	1.8	1.5	1.4	1.0	1.4	1.3	1.5	0.8
Aviation Jet	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	39.2	38.3	37.5	37.6	37.5	37.8	36.9	36.9	39.5	40.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	136.0	131.5	125.6	124.4	121.8	120.3	116.1	113.9	120.3	120.6	-
Final energy intensity (toe/million \$15ppp)	66.4	63.5	62.3	61.0	57.6	57.4	57.6	56.4	56.4	54.8	-
Total energy intensity (toe/million \$15ppp)	103.0	91.7	92.9	95.5	93.2	91.6	87.3	89.3	85.7	82.0	-

*Heat is included

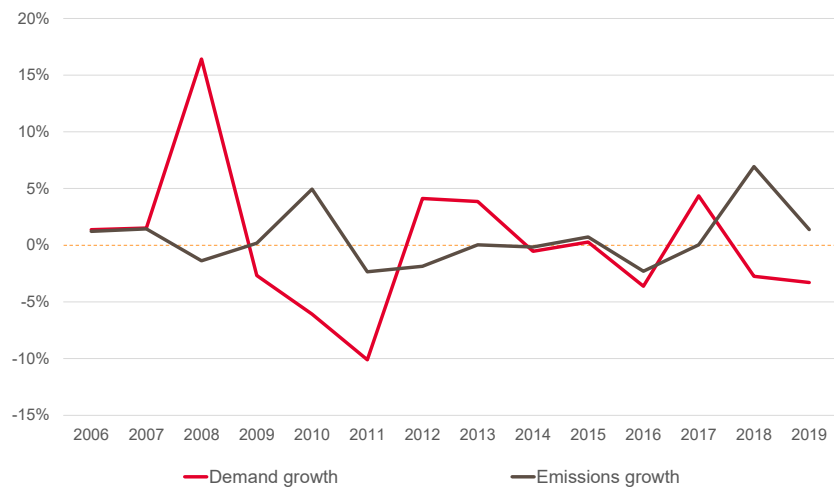
Primary energy demand mix



Electricity generation by source



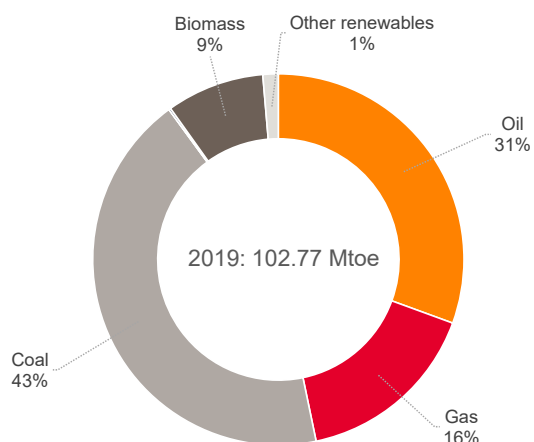
Primary energy demand and CO₂ emissions growth



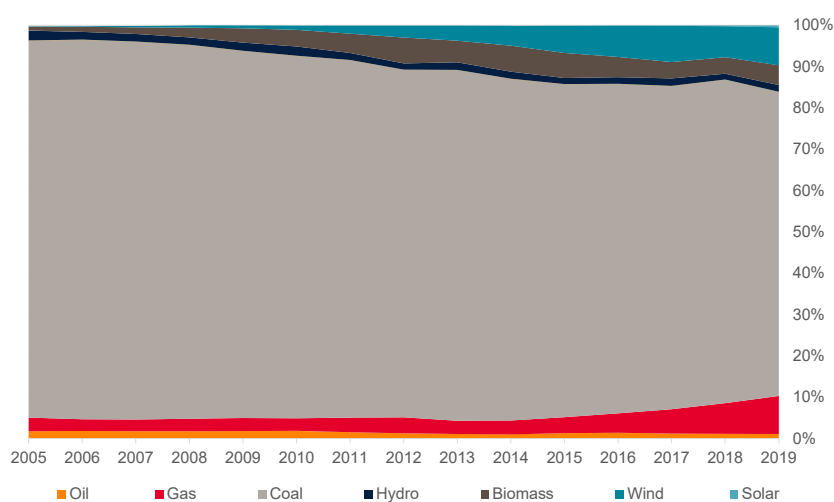
Poland (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	100.8	101.2	98.1	98.2	94.6	95.6	99.8	104.4	106.1	102.8	100.0
Oil	25.7	25.8	24.7	22.8	22.5	24.0	26.4	29.6	30.5	31.1	30.3
Gas	12.8	12.8	13.7	13.7	13.4	13.8	14.6	15.4	16.1	16.4	16.0
Coal	54.7	54.7	50.9	53.0	49.4	48.3	49.1	49.4	49.4	44.0	42.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Biomass	7.3	7.9	8.4	8.2	8.2	8.3	8.1	8.1	8.3	8.7	8.4
Other renewables	0.1	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.1	1.4	1.3
Electricity balance of trade*	-0.1	-0.4	-0.2	-0.3	0.3	0.1	0.3	0.3	0.6	1.0	1.0
Total final consumption, by source	70.3	68.9	68.3	67.2	65.8	67.1	71.3	75.8	76.8	77.2	100.0
Oil	23.2	23.1	21.8	20.8	20.9	22.2	24.4	27.9	28.7	29.3	38.0
Gas	10.1	10.1	10.4	10.4	10.0	10.1	10.9	11.0	11.0	11.1	14.4
Coal	14.5	13.5	13.8	13.4	12.9	12.4	12.7	12.9	12.7	12.5	16.2
Electricity	10.2	10.4	10.5	10.6	10.8	11.0	11.4	11.7	12.0	11.7	15.2
Heat	6.6	5.8	6.0	6.0	5.5	5.5	5.7	5.9	5.7	5.6	7.2
Biomass	5.6	5.9	5.8	6.0	5.7	5.9	6.1	6.4	6.7	6.8	8.8
Electricity generation, by source	13.6	14.1	13.9	14.2	13.7	14.2	14.3	14.7	14.6	14.1	100.0
Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	1.1
Gas	0.4	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.3	9.2
Coal	11.9	12.2	11.7	12.0	11.3	11.4	11.4	11.5	11.5	10.4	73.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	1.6
Biomass	0.5	0.7	0.9	0.7	0.9	0.9	0.7	0.6	0.6	0.7	4.8
Wind	0.1	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.1	1.3	9.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	70.3	68.9	68.3	67.2	65.8	67.1	71.3	75.8	76.8	77.2	100.0
Industry	14.2	14.7	14.5	15.1	15.2	15.2	15.7	17.0	17.2	17.1	22.2
Transport	16.7	16.9	16.2	15.1	15.3	16.2	18.1	21.0	22.2	22.5	29.2
Residential/Commercial	30.7	28.5	29.0	28.5	26.7	26.7	28.2	27.9	27.9	27.8	36.0
Oil final consumption, by sector	23.2	23.1	21.8	20.8	20.9	22.2	24.4	27.9	28.7	29.3	100.0
Industry	1.1	0.9	0.8	0.8	0.7	0.6	0.6	0.7	0.7	0.8	2.7
Transport	15.6	15.7	15.1	14.1	14.3	15.3	17.4	20.1	21.0	21.3	72.7
Residential/Commercial	1.4	1.3	1.2	1.0	1.0	1.0	1.0	1.0	1.1	1.1	3.9
Natural gas final consumption, by sector	10.1	10.1	10.4	10.4	10.0	10.1	10.9	11.0	11.0	11.1	100.0
Industry	3.0	3.2	3.1	3.2	3.2	3.2	3.4	3.7	3.6	3.6	32.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	5.4	5.1	5.2	5.2	4.7	4.8	5.4	5.1	5.4	5.5	49.3
Refined products consumption	23.2	23.1	21.8	20.8	20.9	22.2	24.4	27.9	28.7	29.3	100.0
Gasoline	4.2	3.9	3.8	3.6	3.5	3.7	4.0	4.3	4.5	4.6	15.5
Diesel	12.5	12.9	12.2	11.3	11.4	12.1	14.0	16.6	17.4	17.7	60.3
Heating Oil	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LPG	2.7	2.6	2.6	2.6	2.6	2.6	2.7	2.9	3.1	3.0	10.4
Imports	38.1	39.9	40.2	38.7	38.9	42.5	44.8	48.1	50.1	50.2	100.0
Oil	29.2	30.2	30.2	28.4	29.2	32.5	32.7	35.1	37.1	37.2	74.1
Gas	8.9	9.7	10.0	10.3	9.7	10.0	12.2	13.0	13.1	13.0	25.9
Gasoline	0.4	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.9
Diesel	2.2	2.0	1.4	0.9	1.5	2.1	3.8	5.3	4.9	4.7	9.4
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.2	2.2	2.1	2.3	2.2	2.2	2.4	2.7	2.8	2.7	5.4
Exports	3.6	4.8	5.9	7.0	7.5	8.5	8.0	6.4	6.7	6.4	100.0
Oil	3.5	4.8	5.9	6.9	7.5	8.5	7.3	5.4	6.2	5.9	91.7
Gas	0.0	0.0	0.0	0.1	0.1	0.0	0.7	1.0	0.6	0.5	8.3
Gasoline	0.5	0.5	0.7	0.9	0.7	0.8	0.5	0.2	0.4	0.3	4.0
Diesel	0.0	0.1	0.3	0.6	1.0	1.8	1.1	0.2	0.1	0.1	1.7
Heating Oil	1.5	1.9	2.2	2.5	2.8	2.6	2.4	2.4	2.7	2.2	33.9
Aviation Jet	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.2	0.3	0.2	3.6
LPG	0.1	0.1	0.1	0.3	0.2	0.2	0.3	0.5	0.6	0.5	8.1
CO₂ Emissions (Million tons CO₂)	318.0	313.5	307.6	304.8	291.8	296.0	306.6	319.5	322.7	302.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	362.2	340.0	328.4	320.9	297.3	290.5	292.0	290.3	278.8	250.7	-
Final energy intensity (toe/million \$15ppp)	74.3	69.1	67.6	65.5	61.6	60.2	62.5	63.4	61.6	59.2	-
Total energy intensity (toe/million \$15ppp)	114.8	109.8	104.7	103.4	96.4	93.8	95.0	94.9	91.7	85.3	-

*Heat is included

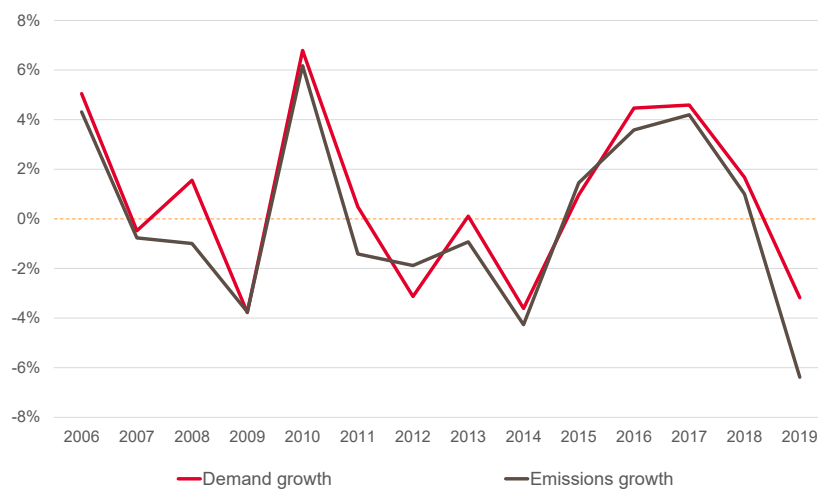
Primary energy demand mix



Electricity generation by source



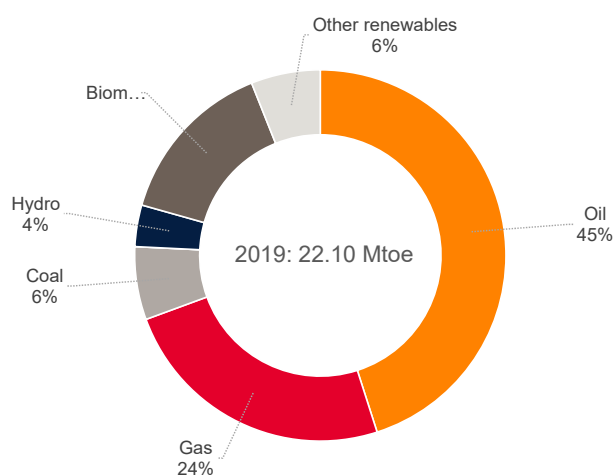
Primary energy demand and CO₂ emissions growth



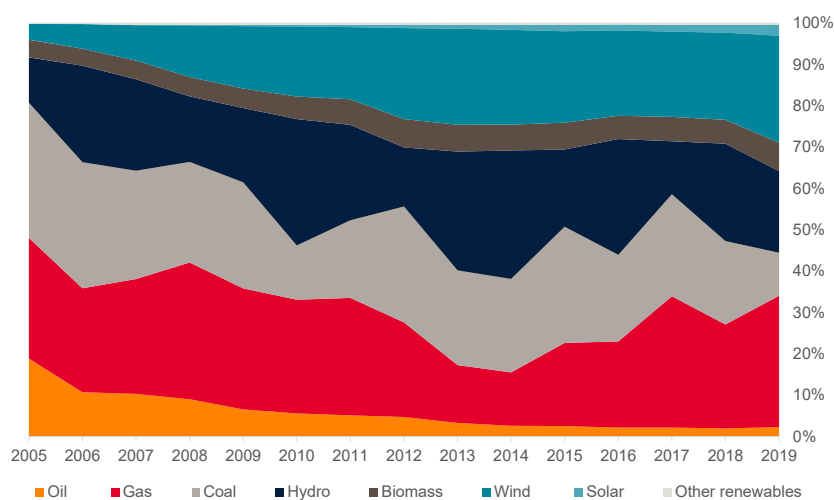
Portugal (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	23.5	22.8	21.4	21.6	21.2	22.0	21.9	22.8	22.2	22.1	100.0
Oil	11.5	10.6	9.4	9.5	9.3	9.4	9.3	9.4	9.0	9.7	43.9
Gas	4.5	4.5	3.9	3.8	3.5	4.0	4.3	5.4	5.0	5.3	23.8
Coal	1.7	2.2	2.9	2.7	2.7	3.3	2.8	3.2	2.7	1.4	6.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.4	1.0	0.5	1.2	1.3	0.7	1.4	0.5	1.1	0.8	3.5
Biomass	3.2	3.3	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.1	14.2
Other renewables	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1	1.2	1.3	5.9
Electricity balance of trade*	0.4	0.5	0.9	0.5	0.3	0.5	-0.2	0.0	0.1	0.5	2.5
Total final consumption, by source	18.9	18.2	16.4	16.2	16.2	16.2	16.1	16.4	16.1	16.6	100.0
Oil	10.1	9.4	8.2	8.1	8.2	8.2	8.0	8.2	7.8	8.4	50.7
Gas	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.7	10.0
Coal	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity	4.3	4.2	4.0	3.9	3.9	3.9	4.0	4.0	4.1	4.1	24.4
Heat	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	1.8
Biomass	2.5	2.5	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	13.0
Electricity generation, by source	4.7	4.5	4.0	4.4	4.5	4.5	5.2	5.1	5.1	4.6	100.0
Oil	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.3
Gas	1.3	1.3	0.9	0.6	0.6	0.9	1.1	1.6	1.3	1.4	31.8
Coal	0.6	0.8	1.1	1.0	1.0	1.3	1.1	1.3	1.0	0.5	10.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.4	1.0	0.6	1.3	1.4	0.8	1.5	0.7	1.2	0.9	19.8
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6.9
Wind	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	25.9
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	2.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Total final consumption, by sector	18.9	18.2	16.4	16.2	16.2	16.2	16.1	16.4	16.1	16.6	100.0
Industry	5.4	5.3	4.6	4.6	4.4	4.4	4.4	4.5	4.4	4.4	26.6
Transport	6.5	6.0	5.5	5.4	5.5	5.6	5.7	5.8	5.8	6.1	36.5
Residential/Commercial	4.9	4.6	4.5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	27.3
Oil final consumption, by sector	10.1	9.4	8.2	8.1	8.2	8.2	8.0	8.2	7.8	8.4	100.0
Industry	1.0	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.6	7.0
Transport	6.1	5.7	5.2	5.1	5.2	5.2	5.3	5.5	5.5	5.7	68.0
Residential/Commercial	0.9	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.6	7.2
Natural gas final consumption, by sector	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.7	100.0
Industry	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	69.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	29.1
Refined products consumption	10.1	9.4	8.2	8.1	8.2	8.2	8.0	8.2	7.8	8.4	100.0
Gasoline	1.5	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	13.3
Diesel	5.2	4.8	4.4	4.3	4.4	4.5	4.6	4.7	4.7	4.9	58.2
Heating Oil	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	3.0
Aviation Jet	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	2.4
LPG	0.8	0.8	0.6	0.9	1.1	0.9	0.9	0.8	0.7	0.9	10.3
Imports	19.9	19.6	18.5	20.0	18.8	22.2	22.0	23.8	22.1	22.8	100.0
Oil	15.4	15.0	14.5	16.2	15.3	18.1	17.8	18.4	17.1	17.5	76.5
Gas	4.5	4.5	3.9	3.8	3.5	4.1	4.3	5.4	5.0	5.4	23.5
Gasoline	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	1.1
Diesel	1.2	1.4	0.9	0.6	0.7	0.8	1.0	0.9	0.9	1.1	5.0
Heating Oil	0.3	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.8
Aviation Jet	0.1	0.3	0.2	0.0	0.1	0.0	0.0	0.1	0.1	0.3	1.1
LPG	0.5	0.5	0.5	0.7	0.9	0.8	0.8	0.7	0.6	0.8	3.5
Exports	2.9	2.9	3.7	5.6	4.8	6.9	6.8	7.0	5.4	4.9	100.0
Oil	2.9	2.9	3.7	5.6	4.8	6.9	6.8	7.0	5.4	4.9	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.1	0.8	0.9	1.4	1.0	1.9	1.8	2.0	1.8	1.7	33.6
Diesel	0.0	0.1	0.4	1.7	1.3	2.3	2.1	2.1	1.2	0.9	18.5
Heating Oil	0.9	1.2	1.4	1.5	1.5	1.6	1.6	1.5	1.2	1.1	21.6
Aviation Jet	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
LPG	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	1.8
CO₂ Emissions (Million tons CO₂)	48.5	48.0	46.5	45.1	44.2	48.2	47.6	51.9	49.5	47.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	150.9	152.2	153.6	150.6	146.3	156.8	151.9	161.3	149.8	141.0	-
Final energy intensity (toe/million \$15ppp)	53.6	52.0	49.8	49.7	48.8	48.5	47.8	47.2	46.0	45.9	-
Total energy intensity (toe/million \$15ppp)	73.1	72.4	70.9	72.1	70.3	71.6	69.8	70.9	67.0	65.4	-

*Heat is included

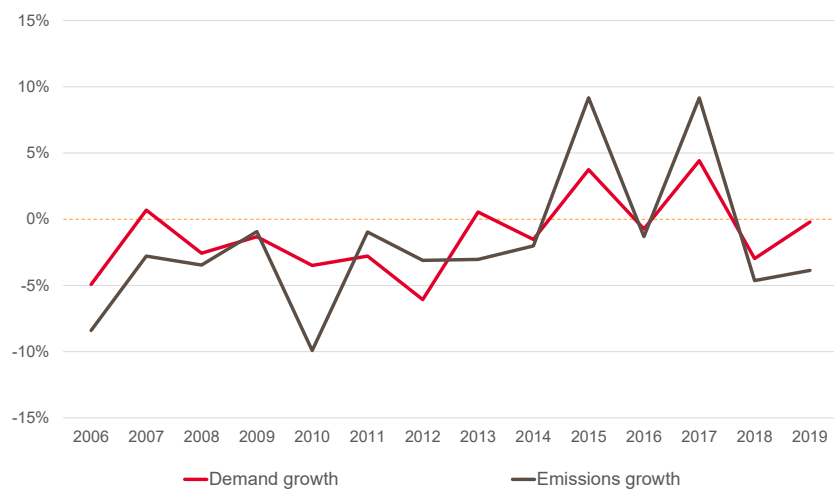
Primary energy demand mix



Electricity generation by source



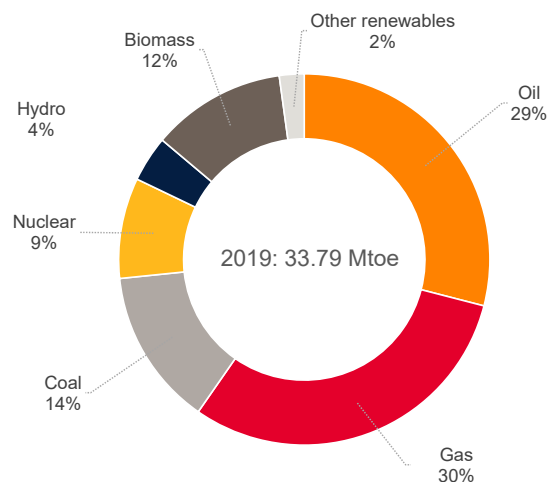
Primary energy demand and CO₂ emissions growth



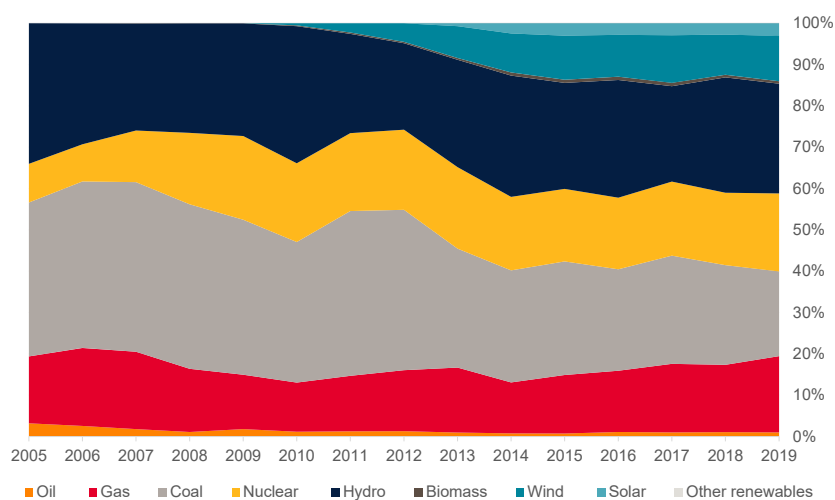
Romania (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	35.1	35.9	35.0	32.0	31.6	31.9	31.9	33.4	33.5	33.8	100.0
Oil	8.6	8.6	8.4	8.0	8.0	8.6	8.8	9.5	9.6	9.7	28.8
Gas	10.8	11.1	10.8	9.8	9.3	8.9	9.0	9.6	9.8	10.3	30.4
Coal	7.0	8.1	7.6	5.7	5.7	5.9	5.3	5.4	5.1	4.6	13.6
Nuclear	3.0	3.1	3.0	3.0	3.0	3.0	2.9	3.0	3.0	2.9	8.7
Hydro	1.7	1.3	1.0	1.3	1.6	1.4	1.6	1.2	1.5	1.3	4.0
Biomass	4.1	3.7	3.9	3.9	3.9	3.8	4.0	4.0	4.0	3.9	11.6
Other renewables	0.0	0.1	0.2	0.4	0.7	0.8	0.7	0.8	0.7	0.7	2.1
Electricity balance of trade*	-0.2	-0.1	0.0	-0.1	-0.6	-0.6	-0.4	-0.2	-0.2	0.3	0.7
Total final consumption, by source	23.7	24.0	24.4	23.2	23.1	22.8	23.2	24.1	24.2	24.8	100.0
Oil	6.6	7.1	7.6	7.1	7.3	7.6	8.0	8.3	8.4	8.9	35.8
Gas	6.8	7.0	6.9	6.4	6.3	5.6	5.5	5.9	5.9	6.1	24.6
Coal	1.1	0.9	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.9	3.6
Electricity	3.6	3.7	3.6	3.5	3.6	3.7	3.7	3.8	3.9	3.9	15.6
Heat	1.7	1.7	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.2	4.9
Biomass	4.1	3.6	3.8	3.8	3.7	3.6	3.8	3.8	3.8	3.8	15.5
Electricity generation, by source	5.2	5.4	5.1	5.1	5.6	5.7	5.6	5.5	5.6	5.1	100.0
Oil	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	1.0
Gas	0.6	0.7	0.7	0.8	0.7	0.8	0.8	0.9	0.9	0.9	18.4
Coal	1.8	2.1	2.0	1.5	1.5	1.6	1.4	1.4	1.3	1.1	20.5
Nuclear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	18.9
Hydro	1.7	1.3	1.1	1.3	1.7	1.5	1.6	1.3	1.6	1.4	26.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Wind	0.0	0.1	0.2	0.4	0.5	0.6	0.6	0.6	0.5	0.6	11.0
Solar	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	3.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	23.7	24.0	24.4	23.2	23.1	22.8	23.2	24.1	24.2	24.8	100.0
Industry	6.8	7.1	6.8	6.3	6.4	6.4	6.3	6.4	6.4	6.6	26.8
Transport	4.8	5.0	5.4	5.3	5.3	5.4	5.8	6.2	6.3	6.5	26.4
Residential/Commercial	10.1	9.6	9.8	9.5	9.2	9.2	9.3	9.6	9.6	9.6	38.7
Oil final consumption, by sector	6.6	7.1	7.6	7.1	7.3	7.6	8.0	8.3	8.4	8.9	100.0
Industry	0.6	0.8	0.9	0.8	0.9	0.9	0.9	0.9	0.8	1.0	10.8
Transport	4.6	4.7	5.1	5.0	5.1	5.1	5.5	5.8	6.0	6.1	69.4
Residential/Commercial	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	3.7
Natural gas final consumption, by sector	6.8	7.0	6.9	6.4	6.3	5.6	5.5	5.9	5.9	6.1	100.0
Industry	2.8	3.0	2.6	2.4	2.5	2.2	2.1	2.2	2.2	2.3	37.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	3.1	3.1	3.3	3.2	2.9	3.0	3.0	3.3	3.3	3.3	54.8
Refined products consumption	6.6	7.1	7.6	7.1	7.3	7.6	8.0	8.3	8.4	8.9	100.0
Gasoline	1.4	1.3	1.4	1.3	1.4	1.3	1.4	1.4	1.4	1.4	15.8
Diesel	3.6	3.9	4.4	4.2	4.2	4.4	4.7	5.1	5.4	5.6	63.0
Heating Oil	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
LPG	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	5.3
Imports	10.0	10.4	10.2	9.0	9.7	9.9	11.7	12.1	13.0	14.7	100.0
Oil	8.2	7.9	7.9	7.8	9.3	9.7	10.5	11.2	11.7	12.2	82.4
Gas	1.8	2.5	2.3	1.2	0.5	0.2	1.2	1.0	1.3	2.6	17.6
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Diesel	1.3	1.3	1.6	1.1	1.0	1.2	1.3	1.4	1.5	1.2	8.3
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3
LPG	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	1.4
Exports	3.6	3.8	3.5	3.9	4.7	4.9	5.3	5.2	5.4	5.6	100.0
Oil	3.6	3.8	3.5	3.9	4.7	4.9	5.3	5.2	5.4	5.6	99.8
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gasoline	1.4	1.8	1.6	1.8	1.8	1.9	2.2	2.0	2.2	2.2	39.7
Diesel	0.8	0.7	0.7	0.9	1.7	1.6	1.7	1.6	1.6	1.6	28.2
Heating Oil	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	2.6
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	7.3
LPG	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	6.3
CO₂ Emissions (Million tons CO₂)	74.7	81.6	79.1	69.6	69.1	69.4	67.9	71.1	71.1	74.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	201.8	216.0	205.3	174.3	167.4	162.0	151.2	147.5	141.3	142.8	-
Final energy intensity (toe/million \$15ppp)	59.9	58.9	58.7	54.3	52.1	50.5	48.9	47.6	46.0	45.0	-
Total energy intensity (toe/million \$15ppp)	94.7	94.9	90.8	80.1	76.7	74.5	70.9	69.3	66.6	64.5	-

*Heat is included

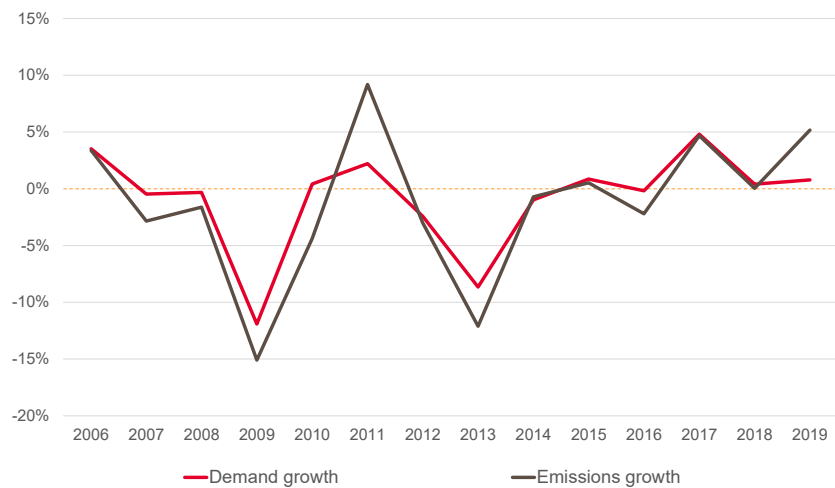
Primary energy demand mix



Electricity generation by source



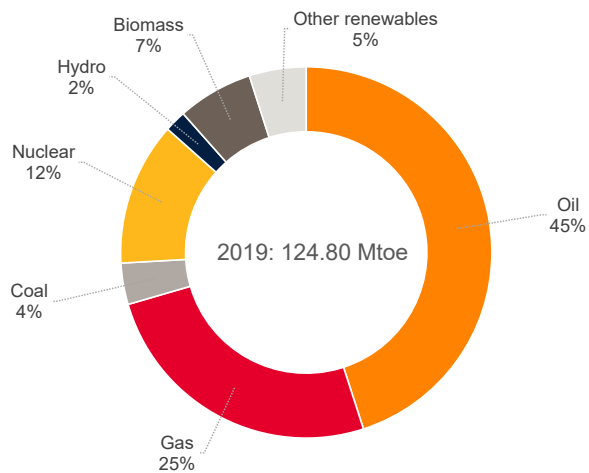
Primary energy demand and CO₂ emissions growth



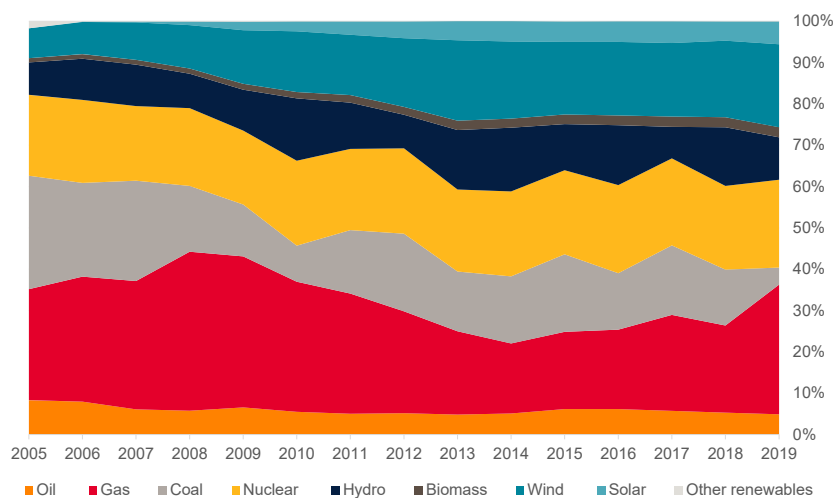
Spain (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	128.0	125.9	125.7	117.4	114.8	119.2	120.1	126.3	126.3	124.8	100.0
Oil	58.2	54.8	50.4	47.8	46.9	49.3	50.7	53.4	54.9	54.8	43.9
Gas	31.1	28.9	28.6	26.2	23.7	24.5	25.0	27.3	27.1	31.0	24.8
Coal	7.8	12.4	15.2	11.0	11.4	13.3	10.5	12.6	10.2	4.4	3.5
Nuclear	16.2	15.0	16.0	14.8	14.9	14.9	15.3	15.1	14.5	15.2	12.2
Hydro	3.6	2.6	1.8	3.2	3.4	2.4	3.1	1.6	3.2	2.3	1.8
Biomass	6.7	7.3	7.9	7.1	7.0	7.0	7.2	7.5	7.9	8.0	6.4
Other renewables	4.4	4.5	5.3	5.9	5.6	5.4	5.4	5.5	5.5	6.0	4.8
Electricity balance of trade*	-0.1	0.3	0.7	1.4	1.9	2.3	3.0	3.2	3.2	3.1	2.5
Total final consumption, by source	92.8	89.5	85.3	81.8	79.4	80.5	82.8	84.2	86.9	86.6	100.0
Oil	50.0	46.3	41.8	39.9	38.5	40.2	42.0	42.8	44.3	44.4	51.3
Gas	14.9	14.5	15.0	15.3	14.8	13.6	13.9	13.9	14.6	14.6	16.8
Coal	1.5	1.9	1.5	1.8	1.5	1.5	1.4	1.6	1.6	1.4	1.6
Electricity	21.1	20.9	20.7	19.8	19.5	20.0	20.0	20.2	20.3	19.9	23.0
Heat	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Biomass	5.1	5.6	6.0	4.8	4.8	5.0	5.2	5.4	5.8	5.9	6.8
Electricity generation, by source	25.9	25.3	25.6	24.6	24.0	24.2	23.6	23.7	23.6	23.6	100.0
Oil	1.4	1.3	1.3	1.2	1.2	1.5	1.5	1.4	1.2	1.1	4.9
Gas	8.2	7.4	6.3	4.9	4.1	4.5	4.5	5.5	5.0	7.4	31.4
Coal	2.3	3.9	4.8	3.6	3.9	4.5	3.2	4.0	3.2	1.0	4.1
Nuclear	5.3	5.0	5.3	4.9	4.9	4.9	5.0	5.0	4.8	5.0	21.3
Hydro	3.9	2.8	2.1	3.5	3.7	2.7	3.4	1.8	3.4	2.4	10.3
Biomass	0.4	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	2.5
Wind	3.8	3.7	4.3	4.8	4.5	4.2	4.2	4.2	4.4	4.7	20.1
Solar	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.3	5.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	92.8	89.5	85.3	81.8	79.4	80.5	82.8	84.2	86.9	86.6	100.0
Industry	21.5	21.3	20.7	20.6	20.0	18.9	18.7	19.4	20.0	19.7	22.7
Transport	33.9	32.2	29.7	28.1	28.3	29.5	30.7	31.8	33.1	33.6	38.8
Residential/Commercial	27.1	26.1	25.7	24.7	23.9	25.1	25.8	25.5	26.0	25.7	29.7
Oil final consumption, by sector	50.0	46.3	41.8	39.9	38.5	40.2	42.0	42.8	44.3	44.4	100.0
Industry	4.9	4.3	3.5	2.7	2.5	2.7	2.8	2.8	3.0	2.9	6.5
Transport	32.1	30.0	27.1	26.7	26.8	27.8	28.8	29.7	30.6	31.0	69.8
Residential/Commercial	4.8	4.2	4.0	4.2	3.9	4.0	4.0	3.9	4.1	4.0	9.0
Natural gas final consumption, by sector	14.9	14.5	15.0	15.3	14.8	13.6	13.9	13.9	14.6	14.6	100.0
Industry	7.8	7.7	8.4	9.0	8.8	6.9	6.5	6.9	7.2	7.2	49.4
Transport	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.4	0.4	2.7
Residential/Commercial	5.3	5.2	5.1	4.7	4.5	5.6	6.5	6.2	6.4	6.4	44.2
Refined products consumption	50.0	46.3	41.8	39.9	38.5	40.2	42.0	42.8	44.3	44.4	100.0
Gasoline	5.6	5.2	4.8	4.6	4.5	4.6	4.8	4.9	5.1	5.4	12.2
Diesel	29.7	27.5	25.2	25.7	25.5	26.9	27.4	27.9	28.5	28.6	64.3
Heating Oil	1.1	1.1	0.7	0.8	0.6	0.5	0.6	0.9	1.1	1.1	2.5
Aviation Jet	2.3	2.1	1.8	1.7	1.8	1.8	2.0	2.1	2.2	2.3	5.1
LPG	2.0	1.8	1.7	1.7	1.8	2.1	2.8	2.5	2.9	2.7	6.0
Imports	112.9	110.7	110.2	109.7	112.0	112.7	114.5	120.4	121.1	122.0	100.0
Oil	81.0	79.8	79.7	78.8	80.3	84.5	86.3	90.2	90.8	89.6	73.5
Gas	31.9	30.9	30.5	30.9	31.6	28.2	28.2	30.1	30.3	32.4	26.5
Gasoline	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.5	1.3	1.1
Diesel	11.0	8.7	6.8	4.7	3.9	4.7	4.9	5.2	5.6	5.7	4.7
Heating Oil	3.3	3.6	3.1	4.2	5.3	4.3	5.9	6.7	7.0	6.1	5.0
Aviation Jet	2.5	2.8	2.4	1.9	2.0	2.3	2.2	2.3	1.8	1.7	1.4
LPG	0.9	0.6	0.4	0.4	0.7	0.9	1.6	1.4	1.5	1.4	1.1
Exports	12.5	14.5	21.8	26.9	28.3	27.1	28.0	29.6	28.6	24.9	100.0
Oil	11.5	13.0	19.4	21.8	21.1	22.7	24.5	27.1	25.7	23.9	95.9
Gas	1.0	1.5	2.4	5.1	7.1	4.4	3.5	2.5	2.8	1.0	4.1
Gasoline	3.6	3.5	3.5	3.6	3.4	5.0	4.7	4.7	4.6	4.9	19.6
Diesel	1.2	2.4	6.3	5.5	5.2	5.5	5.5	6.7	6.8	6.7	26.8
Heating Oil	2.0	2.1	1.4	2.9	2.9	2.2	2.9	3.5	3.6	2.2	8.8
Aviation Jet	0.1	0.3	0.2	0.4	0.3	0.5	0.6	0.6	0.5	0.4	1.7
LPG	0.3	0.3	0.3	0.4	0.5	0.4	0.5	0.6	0.5	0.6	2.4
CO₂ Emissions (Million tons CO₂)	267.0	270.3	265.5	238.3	236.0	251.7	242.6	257.8	254.8	239.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	162.9	166.6	168.5	153.9	150.3	154.7	144.6	149.2	144.0	132.8	-
Final energy intensity (toe/million \$15ppp)	52.3	51.0	50.3	49.6	48.0	46.9	46.4	45.9	46.3	45.3	-
Total energy intensity (toe/million \$15ppp)	78.1	77.6	79.8	75.8	73.2	73.3	71.6	73.1	71.4	69.2	-

*Heat is included

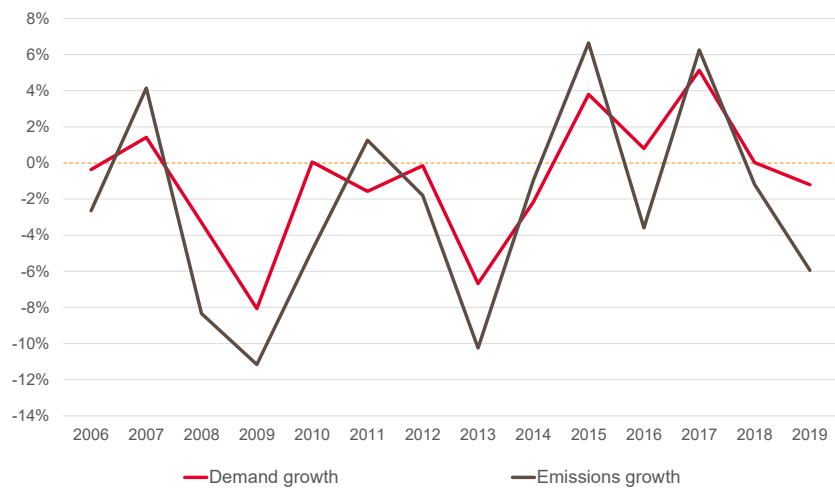
Primary energy demand mix



Electricity generation by source



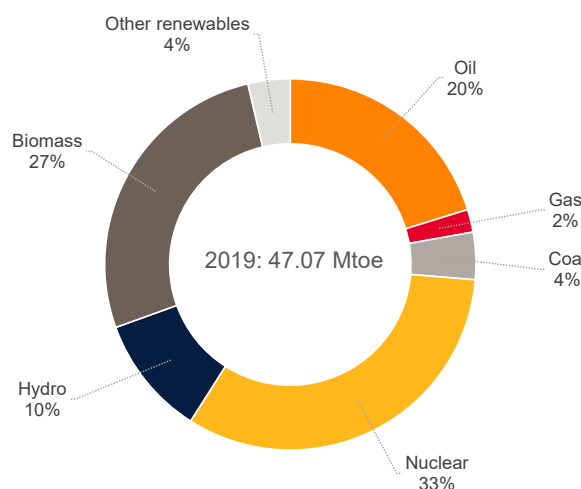
Primary energy demand and CO₂ emissions growth



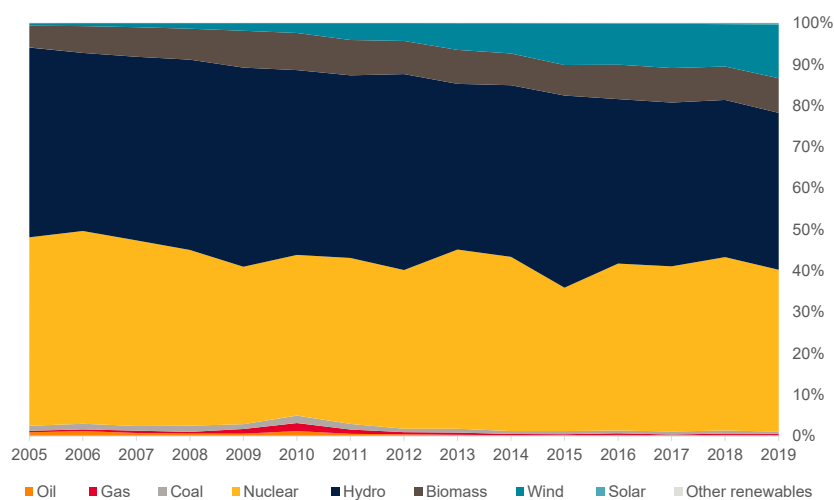
Sweden (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	50.9	49.6	50.1	49.3	48.2	44.8	49.2	49.2	48.9	47.1	100.0
Oil	13.9	13.7	12.6	11.9	11.6	9.3	11.7	10.4	9.7	9.9	21.1
Gas	1.5	1.2	1.0	1.0	0.8	0.7	0.8	0.9	0.9	1.0	2.1
Coal	2.5	2.5	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	4.3
Nuclear	15.1	15.8	16.7	17.3	16.9	14.7	16.4	17.1	17.9	16.0	34.1
Hydro	5.7	5.7	6.8	5.3	5.5	6.5	5.3	5.6	5.3	5.1	10.9
Biomass	11.5	10.6	11.6	11.4	11.4	11.8	12.4	13.1	12.8	13.2	28.0
Other renewables	0.3	0.5	0.6	0.8	1.0	1.4	1.3	1.5	1.5	1.8	3.8
Electricity balance of trade*	0.4	-0.4	-1.4	-0.7	-1.1	-1.7	-0.8	-1.4	-1.3	-2.0	-4.2
Total final consumption, by source	35.4	33.5	33.4	32.8	32.4	32.7	33.9	34.2	34.4	33.5	100.0
Oil	11.2	10.6	9.9	9.7	9.7	9.4	9.9	9.9	10.1	10.1	30.2
Gas	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.8	0.7	0.8	2.3
Coal	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.3	3.8
Electricity	11.3	10.7	10.9	10.8	10.5	10.7	11.0	10.9	11.0	9.9	29.6
Heat	5.2	4.1	4.5	4.5	4.2	4.2	4.4	4.4	4.5	4.3	12.8
Biomass	5.7	5.9	6.1	6.0	6.1	6.5	6.7	6.9	6.9	7.2	21.4
Electricity generation, by source	12.8	12.9	14.3	13.2	13.2	13.9	13.4	14.1	14.0	13.5	100.0
Oil	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gas	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.3
Coal	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Nuclear	5.0	5.2	5.5	5.7	5.6	4.8	5.4	5.6	5.9	5.3	39.2
Hydro	5.7	5.7	6.8	5.3	5.5	6.5	5.3	5.6	5.3	5.1	38.0
Biomass	1.2	1.1	1.1	1.1	1.0	1.0	1.1	1.2	1.1	1.1	8.4
Wind	0.3	0.5	0.6	0.8	1.0	1.4	1.3	1.5	1.4	1.8	13.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Other renewables	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	35.4	33.5	33.4	32.8	32.4	32.7	33.9	34.2	34.4	33.5	100.0
Industry	12.2	11.9	11.7	11.5	11.3	11.6	11.5	11.5	11.3	11.1	33.1
Transport	7.8	7.7	7.5	7.5	7.7	7.8	8.2	8.4	8.1	8.4	24.9
Residential/Commercial	12.6	11.5	11.9	11.4	11.1	11.2	11.8	11.6	12.1	11.4	33.9
Oil final consumption, by sector	11.2	10.6	9.9	9.7	9.7	9.4	9.9	9.9	10.1	10.1	100.0
Industry	1.2	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.9	0.9	8.4
Transport	7.2	7.0	6.7	6.5	6.6	6.5	6.6	6.5	6.3	6.4	63.6
Residential/Commercial	0.7	0.6	0.4	0.3	0.4	0.3	0.4	0.3	0.6	0.6	5.7
Natural gas final consumption, by sector	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.8	0.7	0.8	100.0
Industry	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.4	56.1
Transport	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.0
Residential/Commercial	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	15.8
Refined products consumption	11.2	10.6	9.9	9.7	9.7	9.4	9.9	9.9	10.1	10.1	100.0
Gasoline	3.3	3.0	2.7	2.6	2.8	2.5	2.5	2.4	2.1	2.1	21.1
Diesel	4.7	4.7	4.4	4.3	4.2	4.4	4.6	4.6	4.9	5.1	50.1
Heating Oil	0.8	0.6	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.2	2.2
Aviation Jet	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	1.7
LPG	0.9	1.0	0.9	1.1	1.0	1.0	1.2	1.1	1.2	1.0	10.1
Imports	29.7	28.7	28.9	25.3	27.8	29.1	31.7	30.5	30.0	26.3	100.0
Oil	28.3	27.5	27.9	24.3	27.1	28.4	30.9	29.5	29.0	25.2	96.0
Gas	1.5	1.2	1.0	1.0	0.8	0.7	0.8	0.9	1.0	1.0	4.0
Gasoline	2.0	1.6	1.2	1.3	1.9	1.8	2.0	1.6	0.8	0.6	2.4
Diesel	2.2	2.2	2.1	2.2	2.4	2.6	3.1	3.0	3.1	3.6	13.8
Heating Oil	1.0	1.2	0.7	0.7	0.4	0.7	2.0	1.5	1.7	0.8	3.1
Aviation Jet	0.7	0.8	0.7	0.6	0.9	0.8	1.0	1.0	1.1	1.1	4.0
LPG	1.0	1.3	0.9	1.1	1.2	1.1	1.5	1.3	1.2	1.4	5.2
Exports	12.8	11.6	13.6	10.0	12.8	15.3	17.0	18.1	15.9	11.2	100.0
Oil	12.8	11.6	13.6	10.0	12.8	15.3	17.0	18.0	15.8	11.1	99.4
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6
Gasoline	2.2	2.4	3.0	2.1	3.7	4.1	3.8	4.0	3.0	1.9	16.8
Diesel	4.7	4.0	5.2	3.6	4.9	5.7	5.4	7.1	6.3	4.3	38.4
Heating Oil	3.5	3.2	3.1	2.2	1.7	2.7	4.3	4.0	4.2	2.1	19.0
Aviation Jet	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.1	1.2
LPG	0.5	0.3	0.6	0.3	0.4	0.6	0.8	0.7	0.6	0.7	6.6
CO₂ Emissions (Million tons CO₂)	48.5	44.0	40.6	39.0	38.9	38.4	39.8	39.7	39.5	39.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	113.5	100.3	92.9	88.1	85.5	80.9	81.7	79.8	77.6	76.4	-
Final energy intensity (toe/million \$15ppp)	78.0	71.9	72.3	69.5	67.0	65.2	65.2	63.9	62.9	60.6	-
Total energy intensity (toe/million \$15ppp)	119.1	113.0	114.5	111.3	106.0	94.4	101.0	98.9	96.0	91.4	-

*Heat is included

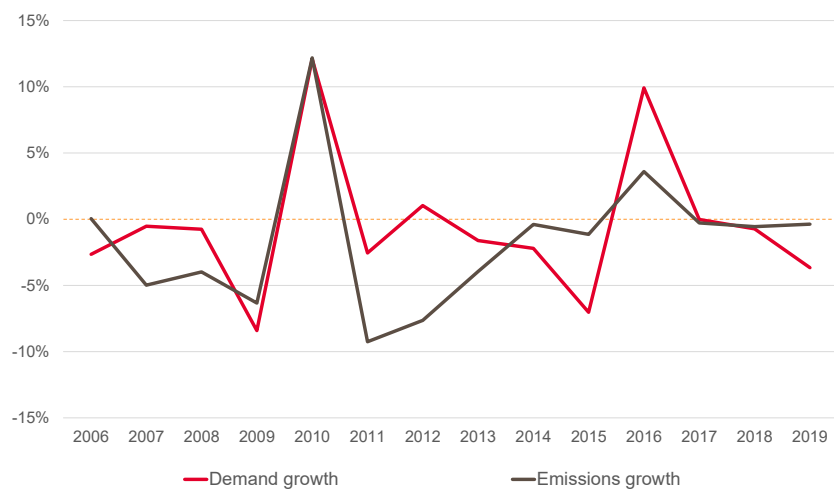
Primary energy demand mix



Electricity generation by source



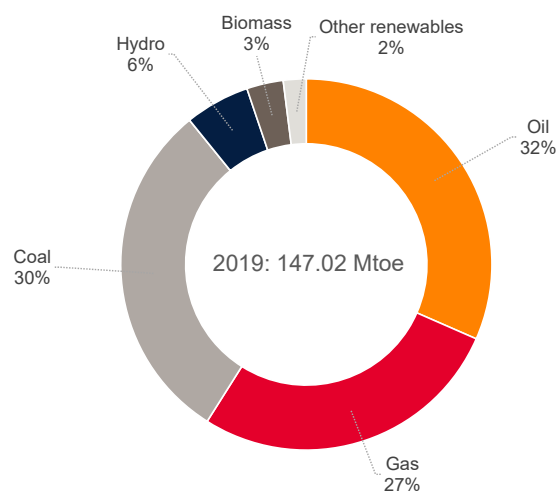
Primary energy demand and CO₂ emissions growth



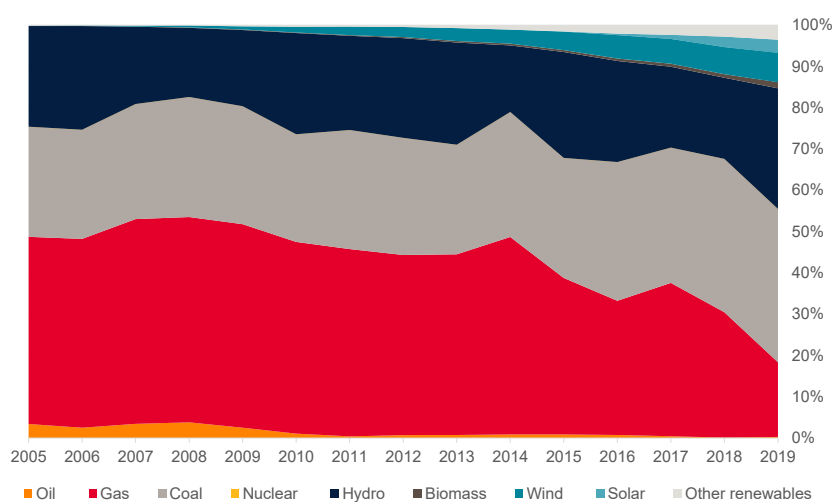
Turkey (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	105.7	112.5	117.8	115.1	119.2	129.1	136.9	147.0	145.4	147.0	100.0
Oil	31.5	31.7	33.5	33.7	33.0	39.1	42.6	44.8	42.4	42.8	29.1
Gas	31.4	36.8	37.3	37.5	40.2	39.4	38.3	44.2	41.1	37.2	25.3
Coal	31.2	32.7	34.6	30.3	33.4	34.5	38.3	40.1	41.5	41.0	27.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	4.5	5.0	5.1	3.5	5.8	5.8	5.0	5.2	7.6	5.2
Biomass	4.5	3.6	3.7	3.9	3.5	3.2	3.1	3.0	3.6	4.3	3.0
Other renewables	0.3	0.4	0.5	0.6	0.7	1.0	1.4	1.8	2.4	2.7	1.8
Electricity balance of trade*	2.3	2.8	3.3	4.0	4.8	6.1	7.3	8.0	9.2	11.3	7.7
Total final consumption, by source	79.8	83.6	87.8	87.2	87.7	95.5	99.6	106.8	104.8	104.0	100.0
Oil	28.4	28.2	29.8	31.1	30.5	35.1	37.5	39.9	38.6	39.0	37.5
Gas	13.0	17.5	18.0	18.7	19.3	21.2	21.5	24.8	24.7	22.9	22.0
Coal	16.4	15.2	16.4	13.4	13.4	14.2	14.7	14.8	13.0	13.3	12.8
Electricity	14.6	15.8	16.6	16.9	17.7	18.4	19.6	21.1	21.6	21.6	20.8
Heat	3.0	3.3	3.5	3.5	3.5	3.7	3.6	3.7	3.9	4.1	3.9
Biomass	4.4	3.5	3.5	3.7	3.3	2.9	2.7	2.5	2.9	3.1	3.0
Electricity generation, by source	18.2	19.7	20.6	20.7	21.7	22.5	23.6	25.6	26.2	26.2	100.0
Oil	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.1	0.2
Gas	8.4	8.9	9.0	9.0	10.4	8.5	7.7	9.5	8.0	4.7	18.1
Coal	4.7	5.7	5.8	5.5	6.6	6.6	7.9	8.4	9.7	9.7	37.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	4.5	5.0	5.1	3.5	5.8	5.8	5.0	5.2	7.6	29.2
Biomass	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	1.5
Wind	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.5	1.7	1.9	7.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.7	0.8	3.2
Other renewables	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.7	0.9	3.5
Total final consumption, by sector	79.8	83.6	87.8	87.2	87.7	95.5	99.6	106.8	104.8	104.0	100.0
Industry	24.4	26.5	27.8	26.1	27.3	28.4	28.6	34.6	35.5	35.0	33.6
Transport	14.5	14.8	17.1	19.4	20.3	24.0	26.2	27.3	27.4	27.8	26.7
Residential/Commercial	28.9	30.7	31.2	30.4	30.2	32.3	33.1	35.7	33.3	32.7	31.4
Oil final consumption, by sector	28.4	28.2	29.8	31.1	30.5	35.1	37.5	39.9	38.6	39.0	100.0
Industry	1.1	1.4	1.6	1.0	0.8	1.0	0.8	4.3	3.7	3.7	9.4
Transport	14.4	14.7	16.9	18.9	20.0	23.8	26.0	27.1	27.1	27.5	70.5
Residential/Commercial	1.5	1.3	0.9	1.0	0.9	1.0	0.9	1.1	1.0	1.0	2.7
Natural gas final consumption, by sector	13.0	17.5	18.0	18.7	19.3	21.2	21.5	24.8	24.7	22.9	100.0
Industry	6.3	7.9	8.0	8.0	8.8	9.0	8.6	10.3	10.7	9.9	43.4
Transport	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	6.4	9.3	9.5	10.3	10.1	11.7	12.1	13.9	13.4	12.4	54.1
Refined products consumption	28.4	28.2	29.8	31.1	30.5	35.1	37.5	39.9	38.6	39.0	100.0
Gasoline	2.1	2.0	1.9	2.0	2.0	2.1	2.3	2.3	2.3	2.5	6.3
Diesel	14.7	15.4	16.0	16.7	17.8	20.2	21.8	23.5	23.2	23.4	60.1
Heating Oil	0.3	0.6	0.7	0.7	0.5	0.5	0.2	0.3	0.3	0.3	0.7
Aviation Jet	0.4	0.3	0.4	0.8	1.0	1.2	1.4	1.2	1.2	1.2	3.2
LPG	4.0	4.0	4.0	4.1	4.1	4.4	4.6	4.5	4.6	4.6	11.8
Imports	68.3	73.7	78.7	77.9	81.4	89.6	88.9	98.8	90.7	90.0	100.0
Oil	37.0	37.6	40.9	40.7	40.9	49.7	50.7	53.4	49.2	52.6	58.4
Gas	31.3	36.1	37.8	37.3	40.5	39.9	38.2	45.5	41.5	37.4	41.6
Gasoline	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	9.9	10.3	11.2	11.8	13.1	12.7	13.1	14.6	15.0	11.3	12.5
Heating Oil	0.6	0.6	0.9	0.7	1.1	1.6	1.6	2.0	2.3	2.0	2.2
Aviation Jet	0.4	0.6	0.6	0.5	0.9	0.2	0.3	0.2	0.5	0.4	0.4
LPG	3.4	3.3	3.3	3.4	3.4	3.8	3.8	3.7	3.6	3.4	3.8
Exports	6.9	8.1	8.3	8.0	7.5	8.1	7.0	7.3	5.6	9.2	100.0
Oil	6.4	7.5	7.8	7.5	7.0	7.6	6.5	6.8	5.1	8.5	93.2
Gas	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.6	6.8
Gasoline	2.1	2.5	2.8	2.6	2.2	3.3	3.0	3.3	2.6	3.1	34.1
Diesel	0.4	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	1.4	15.3
Heating Oil	2.2	2.1	1.2	1.8	2.5	2.4	1.6	1.4	1.1	2.0	22.2
Aviation Jet	1.4	2.1	2.5	2.1	1.0	0.3	0.2	0.3	0.1	0.7	7.8
LPG	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.1	0.1	1.0
CO₂ Emissions (Million tons CO₂)	273.5	294.3	305.9	294.9	316.3	329.0	349.3	386.6	387.7	376.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	191.6	185.5	184.0	163.5	166.7	163.5	168.2	173.3	169.0	162.7	-
Final energy intensity (toe/million \$15ppp)	50.9	48.8	48.5	44.5	43.4	44.0	44.2	45.7	43.9	43.2	-
Total energy intensity (toe/million \$15ppp)	74.0	70.9	70.8	63.8	62.8	64.2	65.9	65.9	63.4	63.5	-

*Heat is included

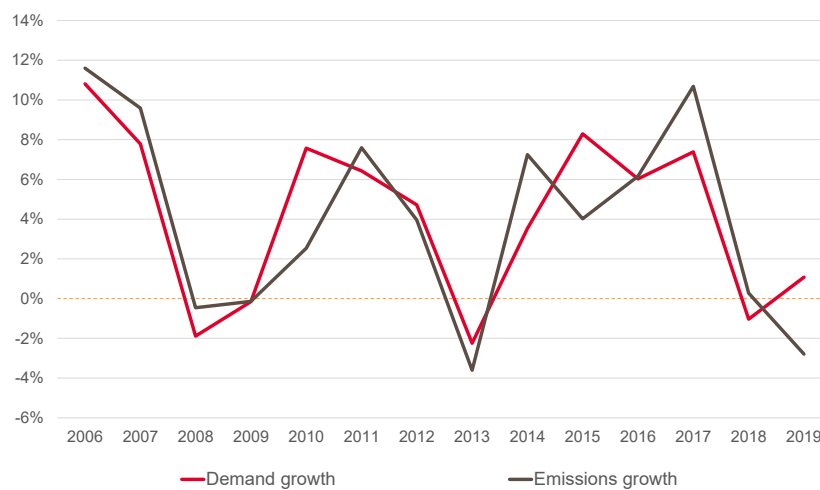
Primary energy demand mix



Electricity generation by source



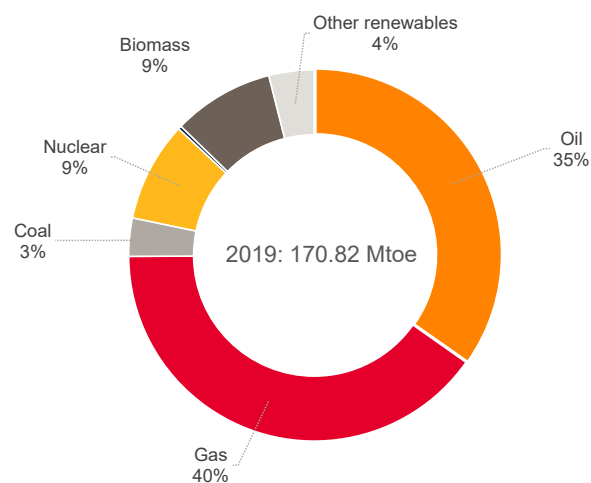
Primary energy demand and CO₂ emissions growth



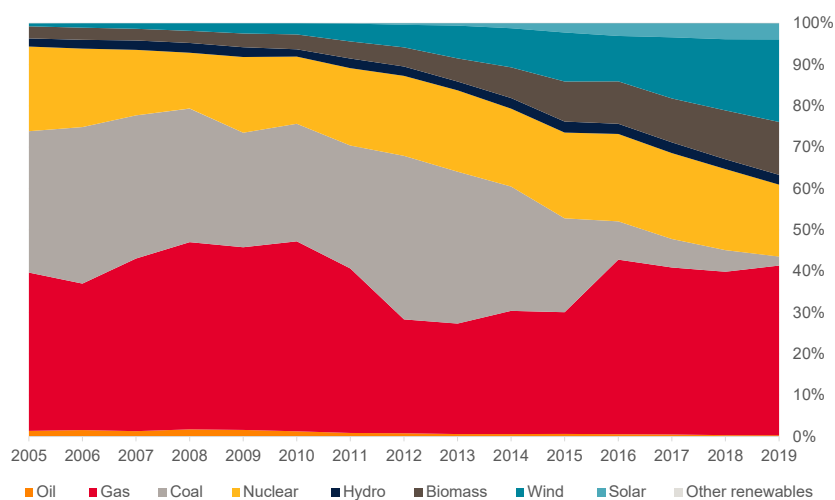
United Kingdom (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	203.6	188.8	193.8	191.0	180.0	181.7	179.1	175.8	175.4	170.8	100.0
Oil	63.6	60.4	59.6	57.1	58.3	60.2	61.1	60.6	60.0	58.7	34.4
Gas	84.8	70.3	66.4	65.8	59.9	61.9	69.5	67.8	68.3	67.9	39.7
Coal	30.9	30.7	39.0	37.3	30.2	23.9	11.7	9.5	7.9	5.6	3.3
Nuclear	16.2	18.0	18.3	18.4	16.6	18.3	18.7	18.3	17.0	14.7	8.6
Hydro	0.3	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Biomass	6.6	6.9	7.3	8.2	9.6	10.8	12.0	12.4	13.9	14.9	8.7
Other renewables	0.9	1.4	1.8	2.6	3.1	4.1	4.1	5.3	6.0	6.7	3.9
Electricity balance of trade*	0.3	0.6	1.1	1.3	1.8	1.9	1.6	1.3	1.7	1.9	1.1
Total final consumption, by source	139.5	127.5	130.3	131.5	124.2	128.2	130.1	128.5	129.6	127.6	100.0
Oil	55.4	53.3	52.3	51.6	52.0	54.0	55.3	55.3	54.5	53.4	41.8
Gas	47.2	38.9	42.4	42.8	36.1	38.2	39.5	38.3	39.8	39.2	30.7
Coal	4.5	4.1	4.3	5.3	5.2	4.8	3.6	3.4	3.2	2.9	2.3
Electricity	28.3	27.3	27.4	27.2	26.1	26.1	26.1	25.9	25.9	25.4	19.9
Heat	1.3	1.2	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.1
Biomass	2.9	2.7	2.7	3.4	3.6	3.7	4.2	4.3	5.0	5.4	4.2
Electricity generation, by source	32.9	31.6	31.3	30.8	29.1	29.1	29.2	29.1	28.6	27.9	100.0
Oil	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3
Gas	15.1	12.6	8.6	8.2	8.7	8.6	12.3	11.8	11.3	11.4	41.1
Coal	9.4	9.4	12.4	11.3	8.7	6.6	2.7	2.0	1.5	0.6	2.2
Nuclear	5.3	5.9	6.1	6.1	5.5	6.0	6.2	6.0	5.6	4.9	17.4
Hydro	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.7	2.3
Biomass	1.2	1.3	1.4	1.7	2.2	2.8	3.0	3.1	3.4	3.6	12.8
Wind	0.9	1.4	1.7	2.4	2.7	3.5	3.2	4.3	4.9	5.6	20.0
Solar	0.0	0.0	0.1	0.2	0.3	0.6	0.9	1.0	1.1	1.1	3.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	139.5	127.5	130.3	131.5	124.2	128.2	130.1	128.5	129.6	127.6	100.0
Industry	27.3	25.5	25.2	25.8	24.9	24.9	23.9	24.1	23.9	23.3	18.3
Transport	40.2	39.6	39.3	39.1	39.7	40.5	41.4	41.5	41.3	40.8	32.0
Residential/Commercial	62.9	53.7	57.9	58.7	51.5	54.2	55.9	54.1	55.5	54.7	42.8
Oil final consumption, by sector	55.4	53.3	52.3	51.6	52.0	54.0	55.3	55.3	54.5	53.4	100.0
Industry	4.9	4.1	4.2	3.7	3.7	3.8	3.9	3.9	3.5	3.5	6.6
Transport	38.7	38.2	38.0	37.7	38.1	39.2	40.0	40.1	39.6	38.7	72.6
Residential/Commercial	4.1	3.5	3.4	3.5	3.6	3.7	3.8	3.7	3.8	3.7	6.9
Natural gas final consumption, by sector	47.2	38.9	42.4	42.8	36.1	38.2	39.5	38.3	39.8	39.2	100.0
Industry	8.5	8.1	7.9	8.1	7.6	7.6	7.6	7.8	7.9	7.7	19.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	38.0	30.3	33.9	34.2	27.9	30.2	31.5	30.1	31.4	31.0	79.1
Refined products consumption	55.4	53.3	52.3	51.6	52.0	54.0	55.3	55.3	54.5	53.4	100.0
Gasoline	15.3	14.6	13.9	13.2	13.0	12.7	12.6	12.3	12.1	12.3	23.0
Diesel	25.7	25.5	26.5	26.4	27.1	28.7	29.7	30.1	29.8	28.7	53.7
Heating Oil	0.7	0.5	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3
Aviation Jet	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.6
LPG	3.3	3.4	2.7	2.5	2.6	3.1	3.2	3.0	3.0	2.9	5.5
Imports	127.8	129.2	132.1	131.2	122.3	123.6	127.0	129.3	128.9	127.4	100.0
Oil	80.9	83.0	89.3	89.6	85.4	85.2	86.3	89.1	89.1	87.5	68.7
Gas	46.9	46.2	42.9	41.6	36.9	38.3	40.7	40.2	39.7	39.9	31.3
Gasoline	3.0	3.4	4.4	4.7	3.7	4.1	4.1	3.6	3.8	3.2	2.5
Diesel	8.6	9.2	11.1	11.2	13.1	15.1	17.0	15.6	16.3	15.0	11.8
Heating Oil	1.0	0.8	0.6	0.6	1.0	1.0	1.2	0.9	0.7	0.7	0.5
Aviation Jet	7.6	7.1	7.3	8.4	8.4	8.5	9.0	8.9	9.2	9.4	7.4
LPG	0.4	0.2	0.3	0.5	0.5	0.8	0.9	0.9	1.3	1.0	0.8
Exports	83.0	76.7	72.6	69.4	64.1	70.1	69.3	72.7	75.3	74.9	100.0
Oil	70.0	63.0	62.5	61.7	55.2	58.3	60.9	63.4	69.0	68.4	91.2
Gas	13.0	13.7	10.2	7.7	9.0	11.9	8.4	9.3	6.2	6.6	8.8
Gasoline	9.1	9.8	11.6	11.4	9.1	10.9	11.7	11.5	10.8	9.9	13.3
Diesel	6.6	7.9	7.8	6.3	5.5	4.7	5.0	3.9	4.4	4.3	5.7
Heating Oil	4.7	4.9	5.4	4.5	4.0	3.2	3.2	2.9	2.4	2.1	2.8
Aviation Jet	1.5	1.2	1.4	1.0	1.1	1.2	1.3	1.3	1.6	1.5	1.9
LPG	0.8	0.9	1.3	1.3	1.0	0.9	1.1	1.1	0.9	0.9	1.2
CO₂ Emissions (Million tons CO₂)	485.2	446.1	467.8	455.1	414.5	402.5	379.8	385.6	362.1	345.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	196.5	177.7	183.7	175.1	155.0	147.0	136.3	128.8	125.9	118.5	-
Final energy intensity (toe/million \$15ppp)	53.2	47.7	48.4	48.0	43.9	44.1	44.0	42.6	42.5	41.2	-
Total energy intensity (toe/million \$15ppp)	82.5	75.2	76.1	73.5	67.3	66.3	64.3	62.0	61.0	58.6	-

*Heat is included

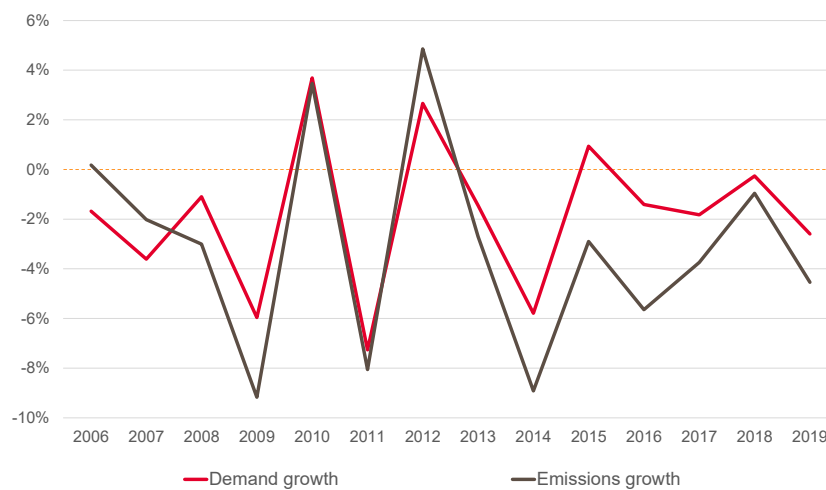
Primary energy demand mix



Electricity generation by source



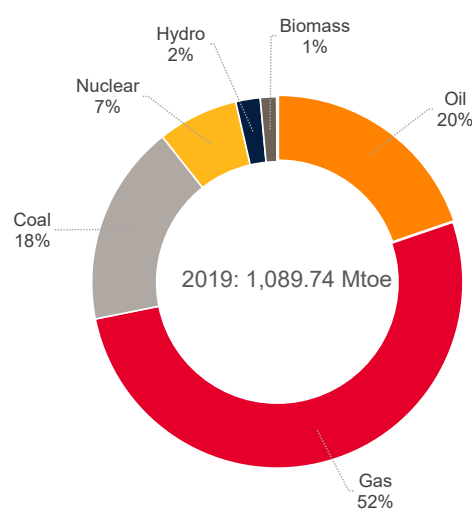
Primary energy demand and CO₂ emissions growth



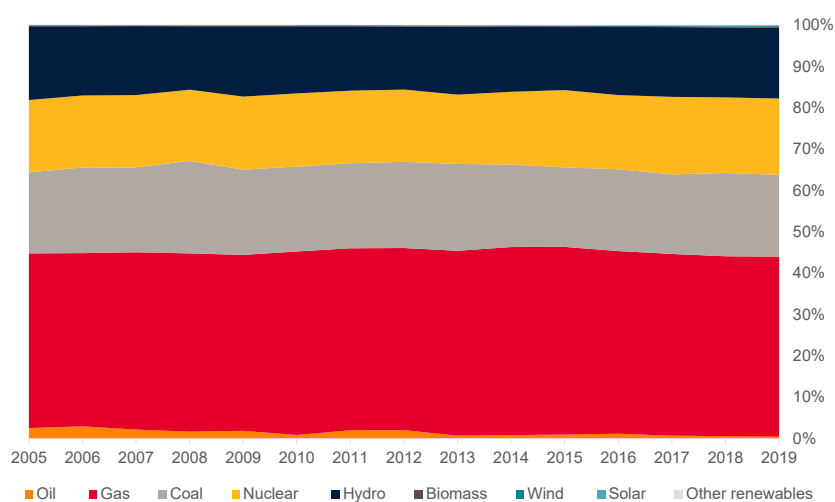
Former Soviet Union (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	1,008.0	1,043.2	1,058.8	1,030.7	1,019.2	987.1	1,006.6	1,027.1	1,071.6	1,089.7	100.0
Oil	187.1	200.3	209.3	198.5	198.9	191.0	208.6	208.7	212.1	215.6	19.8
Gas	546.5	559.0	547.2	540.1	536.3	504.4	507.5	524.2	553.5	569.0	52.2
Coal	176.1	185.2	201.8	191.8	181.2	185.1	182.9	183.1	192.9	191.4	17.6
Nuclear	68.3	69.3	70.4	67.3	70.8	74.5	73.0	75.9	75.9	76.6	7.0
Hydro	20.6	20.1	20.1	21.6	20.6	19.8	21.8	22.3	22.9	23.2	2.1
Biomass	11.1	11.4	11.8	12.0	11.8	12.5	13.8	13.8	15.6	15.6	1.4
Other renewables	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.0
Electricity balance of trade*	-1.7	-2.1	-1.8	-0.6	-0.6	-0.5	-1.1	-1.1	-1.7	-2.1	-0.2
Total final consumption, by source	622.7	637.7	638.3	615.8	623.3	608.8	619.6	640.4	658.2	665.5	100.0
Oil	151.4	149.4	150.8	156.1	158.2	158.5	157.9	165.9	169.2	171.7	25.8
Gas	176.8	178.5	172.9	164.8	172.5	167.1	173.3	185.7	193.3	195.8	29.4
Coal	58.6	63.8	66.6	63.2	62.2	61.3	62.3	61.0	62.6	63.2	9.5
Electricity	87.7	89.4	91.0	91.3	90.7	89.9	90.6	91.9	94.8	95.3	14.3
Heat	142.9	151.1	151.3	134.6	133.9	125.7	128.3	128.6	130.3	131.5	19.8
Biomass	5.3	5.4	5.7	5.8	5.7	6.3	7.2	7.3	8.0	8.1	1.2
Electricity generation, by source	127.5	130.2	132.7	132.3	132.6	131.7	134.0	133.7	136.9	137.2	100.0
Oil	1.1	2.6	2.7	0.9	1.1	1.2	1.5	0.9	0.8	0.6	0.5
Gas	56.6	57.3	58.5	59.2	60.3	59.8	59.2	58.8	59.6	59.7	43.5
Coal	26.3	26.8	27.7	27.8	26.5	25.4	26.5	25.8	27.6	27.2	19.8
Nuclear	22.5	22.9	23.2	22.2	23.4	24.6	24.1	25.1	25.0	25.3	18.4
Hydro	20.7	20.3	20.2	21.8	20.8	20.1	22.1	22.6	23.2	23.5	17.1
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Wind	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	622.7	637.7	638.3	615.8	623.3	608.8	619.6	640.4	658.2	665.5	100.0
Industry	211.7	222.3	228.2	214.2	211.2	207.2	218.2	216.8	223.2	224.5	33.7
Transport	87.9	92.1	93.2	93.9	93.5	91.2	90.5	91.7	93.0	96.7	14.5
Residential/Commercial	224.3	233.9	226.1	220.5	228.9	220.3	220.0	233.1	239.9	242.7	36.5
Oil final consumption, by sector	151.4	149.4	150.8	156.1	158.2	158.5	157.9	165.9	169.2	171.7	100.0
Industry	15.3	15.4	15.2	18.7	17.4	19.5	21.3	20.8	21.4	20.9	12.1
Transport	80.8	84.6	85.4	86.2	85.8	83.9	83.1	84.8	85.7	89.3	52.0
Residential/Commercial	9.1	11.5	10.9	12.7	13.9	14.1	13.1	16.6	17.2	17.8	10.4
Natural gas final consumption, by sector	176.8	178.5	172.9	164.8	172.5	167.1	173.3	185.7	193.3	195.8	100.0
Industry	48.9	49.3	51.5	48.4	50.9	47.5	47.7	49.1	51.5	52.4	26.8
Transport	0.6	0.6	0.6	0.7	0.7	0.8	0.9	0.9	1.1	1.1	0.6
Residential/Commercial	85.2	86.7	79.7	76.6	82.1	78.7	83.5	89.4	92.3	93.5	47.7
Refined products consumption	150.9	147.7	150.3	152.6	157.8	157.8	157.2	165.2	168.5	171.0	100.0
Gasoline	49.8	50.3	52.0	52.3	52.5	50.9	50.5	48.7	50.1	50.4	29.5
Diesel	39.9	44.2	41.7	43.0	45.1	45.9	44.1	47.2	44.9	50.3	29.4
Heating Oil	5.4	5.1	4.7	4.1	3.9	3.8	2.9	3.4	3.6	3.1	1.8
Aviation Jet	5.6	6.9	7.0	6.5	6.1	5.5	5.4	5.9	6.9	6.8	4.0
LPG	13.6	15.6	16.4	18.2	19.9	19.9	20.4	22.6	24.6	24.7	14.4
Imports	104.9	121.9	113.9	103.0	91.7	92.8	83.1	88.2	87.0	84.2	100.0
Oil	46.0	53.0	54.0	47.3	42.8	45.5	39.4	40.8	40.4	39.5	46.9
Gas	59.0	68.9	59.9	55.7	48.9	47.3	43.7	47.4	46.5	44.8	53.1
Gasoline	4.8	5.6	5.6	5.4	6.4	5.5	5.1	4.3	3.8	2.4	2.8
Diesel	6.0	9.9	10.7	7.1	7.5	7.4	8.4	9.0	8.8	9.6	11.4
Heating Oil	2.0	2.7	3.6	0.3	0.3	0.7	0.7	0.7	0.3	0.1	0.1
Aviation Jet	0.6	0.4	0.4	0.4	0.4	0.4	0.6	0.7	0.7	0.3	0.3
LPG	0.5	0.7	0.8	0.9	1.1	1.3	1.9	2.2	2.4	2.7	3.2
Exports	701.2	728.5	720.6	750.8	720.7	761.7	759.0	781.8	795.5	812.6	100.0
Oil	505.3	507.8	502.4	507.4	492.7	515.5	504.7	510.7	509.9	519.6	63.9
Gas	195.8	220.7	218.2	243.4	228.0	246.2	254.3	271.1	285.6	293.0	36.1
Gasoline	7.2	8.3	7.6	8.5	8.1	9.2	9.4	8.3	7.6	9.3	1.1
Diesel	51.4	50.3	53.6	51.3	50.5	48.1	45.9	47.4	50.3	47.2	5.8
Heating Oil	70.6	64.7	64.8	71.4	72.6	75.0	57.0	54.4	48.6	52.7	6.5
Aviation Jet	0.2	0.1	0.2	2.4	3.1	3.0	3.0	2.9	3.3	3.5	0.4
LPG	6.0	5.2	5.3	5.8	6.3	6.8	7.9	7.9	8.1	7.7	0.9
CO₂ Emissions (Million tons CO₂)	2,372.6	2,484.1	2,474.7	2,417.6	2,348.7	2,316.3	2,299.6	2,323.7	2,464.0	2,487.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	518.8	514.8	495.1	472.0	454.2	458.2	453.0	447.7	461.1	455.6	-
Final energy intensity (toe/million \$15ppp)	119.3	118.3	114.1	107.5	107.6	106.9	108.4	108.4	107.9	107.1	-
Total energy intensity (toe/million \$15ppp)	220.4	216.2	211.8	201.3	197.1	195.3	198.3	197.9	200.5	199.6	-

*Heat is included

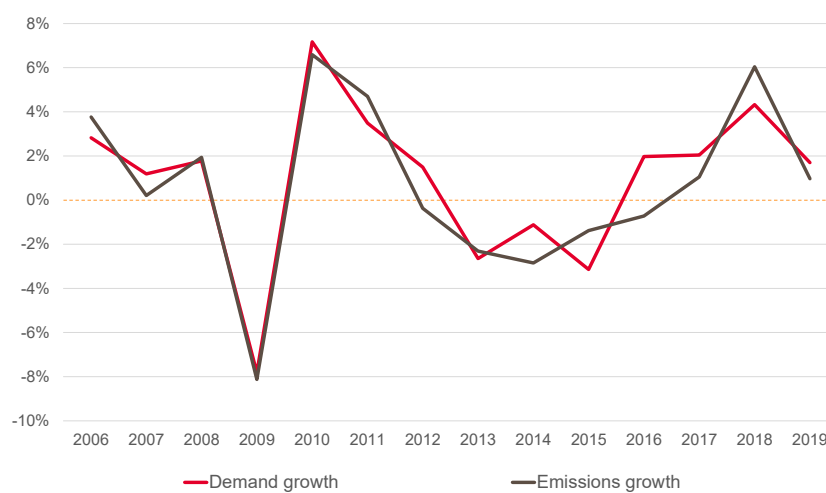
Primary energy demand mix



Electricity generation by source



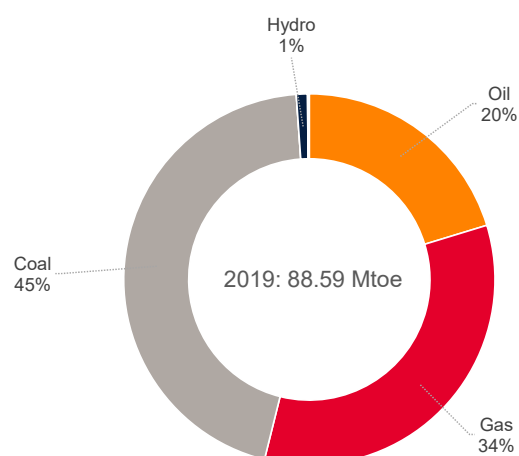
Primary energy demand and CO₂ emissions growth



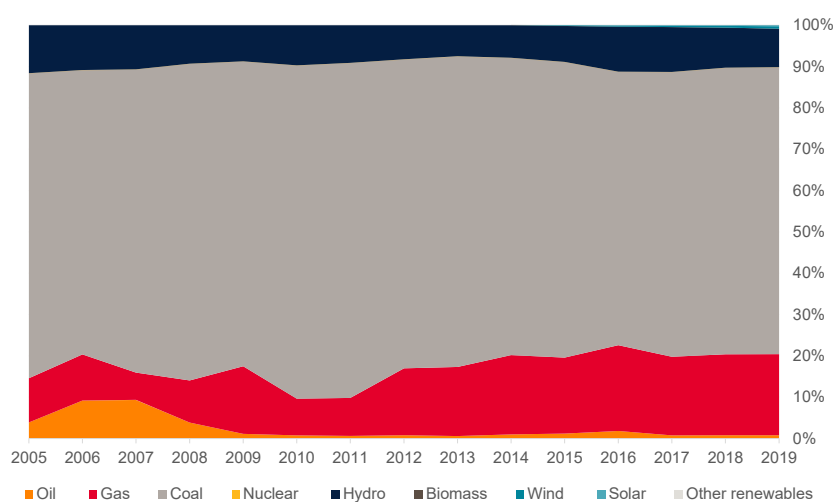
Kazakhstan (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	69.1	77.3	73.9	81.5	76.9	78.1	81.6	85.2	89.9	88.6	100.0
Oil	11.5	14.3	12.9	18.0	13.0	15.5	16.5	16.4	17.6	18.0	20.3
Gas	22.3	24.4	22.3	25.4	26.2	27.4	28.7	29.8	30.9	29.9	33.7
Coal	34.5	37.8	37.9	37.5	37.0	34.2	35.4	38.3	40.8	40.0	45.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.0	0.9	0.9	1.0
Biomass	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electricity balance of trade*	0.1	0.1	0.1	-0.1	-0.1	0.0	-0.1	-0.4	-0.3	-0.3	-0.3
Total final consumption, by source	39.6	43.7	42.7	43.7	39.3	41.1	41.6	41.9	44.4	44.0	100.0
Oil	9.1	11.1	10.0	13.6	10.4	12.3	13.0	12.8	13.7	14.2	32.2
Gas	3.1	3.2	2.9	2.9	3.0	3.2	3.5	3.4	3.6	3.4	7.8
Coal	15.7	16.9	17.0	15.2	12.9	13.1	13.3	14.3	15.1	14.4	32.7
Electricity	5.2	5.8	6.1	5.9	6.1	6.0	5.8	5.4	5.8	5.8	13.1
Heat	6.4	6.7	6.7	6.1	6.8	6.4	5.9	5.9	6.2	6.2	14.0
Biomass	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Electricity generation, by source	7.1	7.4	8.0	8.9	9.0	9.2	9.2	8.9	9.2	9.3	100.0
Oil	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.8
Gas	0.6	0.7	1.3	1.5	1.7	1.7	1.9	1.7	1.8	1.8	19.6
Coal	5.7	6.0	6.0	6.7	6.5	6.6	6.1	6.1	6.4	6.4	69.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.0	0.9	0.9	9.3
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Other renewables	-0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	39.6	43.7	42.7	43.7	39.3	41.1	41.6	41.9	44.4	44.0	100.0
Industry	21.8	24.8	23.7	25.1	18.9	21.5	23.7	22.3	23.4	22.9	51.9
Transport	4.9	5.0	5.3	5.0	5.0	5.4	5.5	5.3	5.6	5.7	13.0
Residential/Commercial	9.7	11.4	10.0	10.7	12.2	11.7	9.5	11.3	12.3	12.3	28.0
Oil final consumption, by sector	9.1	11.1	10.0	13.6	10.4	12.3	13.0	12.8	13.7	14.2	100.0
Industry	2.2	3.2	2.2	5.1	2.1	3.5	4.4	4.0	4.2	4.3	30.6
Transport	4.5	4.6	4.9	4.6	4.7	5.0	5.2	5.0	5.2	5.4	37.7
Residential/Commercial	1.7	2.3	1.7	2.7	2.6	2.7	2.3	2.7	3.0	3.2	22.3
Natural gas final consumption, by sector	3.1	3.2	2.9	2.9	3.0	3.2	3.5	3.4	3.6	3.4	100.0
Industry	1.4	1.5	1.5	1.6	1.6	1.8	1.7	1.7	1.7	1.7	48.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	1.6	1.6	1.2	1.1	1.1	1.1	1.3	1.2	1.3	1.2	35.7
Refined products consumption	8.8	9.5	9.6	10.2	10.1	11.8	12.4	12.2	13.0	13.6	100.0
Gasoline	3.6	3.8	4.0	4.0	4.0	4.4	4.7	4.6	4.8	4.9	35.9
Diesel	3.1	3.5	3.3	3.9	3.9	4.6	5.5	4.8	5.2	5.6	41.1
Heating Oil	1.0	1.1	1.0	0.9	0.8	1.5	0.8	0.9	0.9	0.9	6.7
Aviation Jet	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
LPG	0.3	0.5	0.4	0.5	0.5	0.5	0.6	0.9	1.1	1.1	8.3
Imports	10.6	9.7	12.1	14.6	6.5	6.8	7.7	7.4	7.2	5.0	100.0
Oil	7.7	5.9	8.5	10.2	3.0	1.9	2.0	2.1	1.5	0.9	17.4
Gas	2.9	3.8	3.6	4.3	3.5	4.9	5.8	5.3	5.7	4.1	82.6
Gasoline	0.8	0.7	1.3	1.2	1.2	1.4	1.2	1.1	0.6	0.0	0.5
Diesel	0.4	0.2	0.5	0.6	0.6	0.2	0.4	0.5	0.5	0.4	7.4
Heating Oil	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.3	0.2	0.0	0.7
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	83.0	81.4	86.6	85.7	82.6	80.2	79.0	90.1	91.7	91.9	100.0
Oil	77.8	76.3	77.6	77.1	73.8	69.6	66.6	75.2	76.3	76.3	83.0
Gas	5.2	5.1	9.0	8.6	8.8	10.7	12.4	14.9	15.4	15.6	17.0
Gasoline	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	2.0	1.0	1.8	1.8	1.8	0.2	0.1	0.1	0.2	0.0	0.1
Heating Oil	2.5	2.7	2.5	2.4	2.6	1.9	1.8	2.1	1.7	1.5	1.6
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	1.9	1.8	1.8	1.8	2.1	2.2	2.1	2.2	2.0	2.1	2.3
CO₂ Emissions (Million tons CO₂)	217.1	231.7	234.2	251.2	236.3	248.4	260.8	257.8	269.4	265.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	619.9	616.0	593.9	600.9	542.7	563.5	585.4	555.8	558.0	526.8	-
Final energy intensity (toe/million \$15ppp)	111.8	114.9	106.1	102.4	88.2	91.1	91.3	87.9	89.5	84.9	-
Total energy intensity (toe/million \$15ppp)	197.3	205.5	187.3	195.1	176.6	177.2	183.2	183.6	186.3	175.6	-

*Heat is included

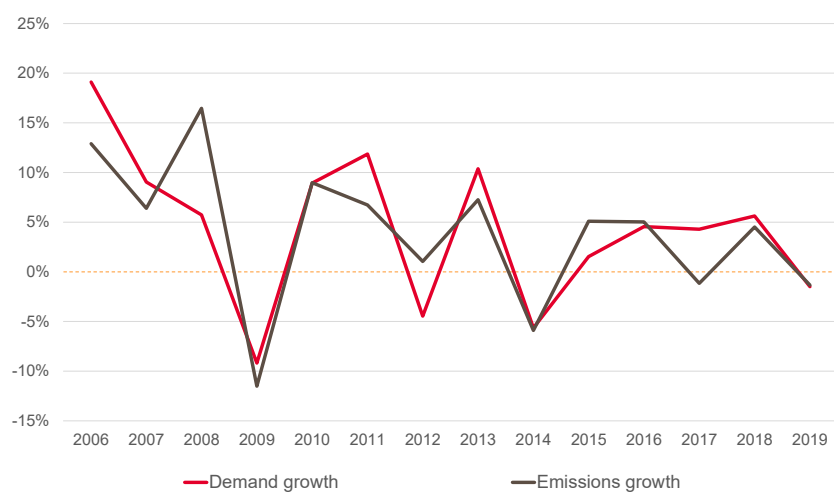
Primary energy demand mix



Electricity generation by source



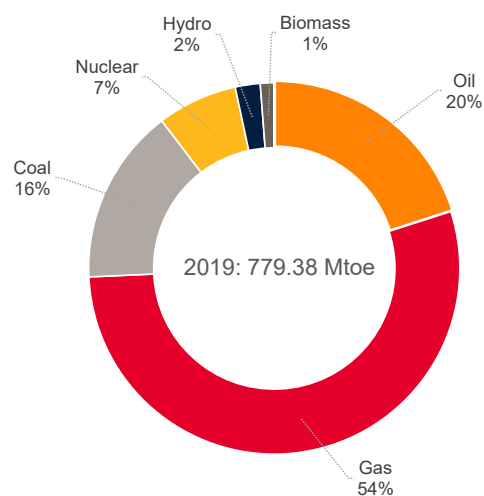
Primary energy demand and CO₂ emissions growth



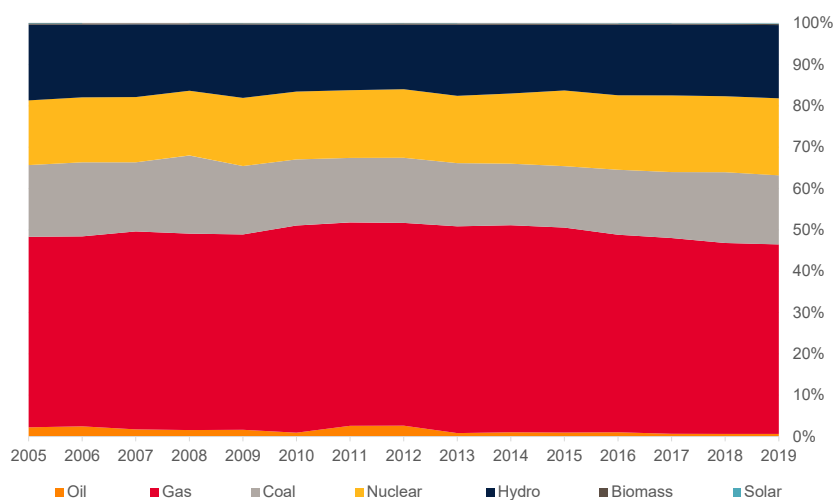
Russia (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	688.1	710.9	727.9	706.5	706.8	692.4	714.2	732.4	765.7	779.4	100.0
Oil	139.1	146.8	156.2	145.1	148.6	139.4	155.2	154.0	154.8	156.3	20.1
Gas	383.4	395.9	387.0	386.1	385.3	364.1	371.2	388.1	413.3	423.4	54.3
Coal	100.9	103.3	117.8	108.3	103.9	116.4	113.3	114.1	119.0	119.9	15.4
Nuclear	44.4	45.1	46.3	45.0	47.1	50.9	51.2	52.9	53.3	54.5	7.0
Hydro	14.3	14.3	14.3	15.6	15.1	14.4	15.9	15.9	16.4	17.0	2.2
Biomass	6.9	7.1	7.4	7.2	7.1	7.7	8.1	7.8	9.5	9.3	1.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Electricity balance of trade*	-1.1	-1.5	-1.0	-0.8	-0.3	-0.6	-0.9	-0.5	-0.7	-1.1	-0.1
Total final consumption, by source	425.8	427.8	426.5	413.7	432.6	431.7	442.1	465.2	477.1	485.8	100.0
Oil	109.4	103.2	103.4	108.4	114.3	114.4	113.0	120.6	121.5	122.7	25.3
Gas	110.5	106.7	101.1	100.7	111.3	114.0	122.2	136.2	144.0	147.5	30.4
Coal	28.8	31.5	34.1	32.2	33.7	35.6	35.8	35.2	34.4	36.4	7.5
Electricity	60.3	60.5	61.5	61.8	61.5	61.2	62.2	63.6	65.5	66.0	13.6
Heat	114.6	123.6	123.7	108.0	109.5	103.3	105.3	106.1	107.6	109.1	22.5
Biomass	2.3	2.4	2.7	2.6	2.5	3.1	3.5	3.4	4.1	4.0	0.8
Electricity generation, by source	89.3	90.7	92.1	91.1	91.5	91.8	93.8	94.1	95.6	96.5	100.0
Oil	0.8	2.4	2.4	0.7	0.9	0.9	0.9	0.6	0.6	0.6	0.6
Gas	44.8	44.7	45.2	45.6	45.9	45.6	44.9	44.6	44.2	44.3	45.9
Coal	14.3	14.1	14.5	13.9	13.6	13.6	14.7	15.0	16.4	16.1	16.7
Nuclear	14.7	14.9	15.3	14.8	15.5	16.8	16.9	17.5	17.6	18.0	18.6
Hydro	14.5	14.4	14.4	15.7	15.2	14.6	16.1	16.1	16.5	17.1	17.7
Biomass	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	425.8	427.8	426.5	413.7	432.6	431.7	442.1	465.2	477.1	485.8	100.0
Industry	143.9	149.1	157.3	146.0	150.9	150.0	159.9	161.0	164.5	167.2	34.4
Transport	61.2	64.6	64.2	64.9	65.9	64.8	62.9	63.8	63.9	66.5	13.7
Residential/Commercial	148.4	153.3	145.7	142.0	151.9	151.0	151.9	164.2	169.8	173.0	35.6
Oil final consumption, by sector	109.4	103.2	103.4	108.4	114.3	114.4	113.0	120.6	121.5	122.7	100.0
Industry	11.1	10.2	11.3	12.1	13.8	14.5	16.0	15.9	16.2	15.4	12.6
Transport	56.0	59.0	58.4	59.2	60.0	59.4	57.4	58.7	58.7	61.2	49.9
Residential/Commercial	6.4	8.3	8.5	9.2	10.7	10.5	9.8	12.9	13.3	13.6	11.1
Natural gas final consumption, by sector	110.5	106.7	101.1	100.7	111.3	114.0	122.2	136.2	144.0	147.5	100.0
Industry	32.4	31.2	34.1	33.7	37.2	35.5	36.7	38.3	40.5	41.4	28.1
Transport	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.2
Residential/Commercial	43.5	42.2	34.6	35.8	41.7	44.5	49.7	56.4	59.7	61.1	41.4
Refined products consumption	109.3	103.1	103.3	108.2	114.1	114.3	113.0	120.6	121.4	122.7	100.0
Gasoline	34.9	35.4	36.8	37.4	38.1	37.1	36.4	35.2	36.3	36.6	29.8
Diesel	23.4	26.3	23.0	23.6	26.6	27.3	24.8	28.0	24.7	28.5	23.2
Heating Oil	2.5	2.2	2.3	2.0	1.8	1.0	0.9	1.3	1.4	1.1	0.9
Aviation Jet	5.2	6.4	6.6	6.1	5.7	5.1	4.9	5.4	6.3	6.2	5.1
LPG	11.3	12.8	13.6	14.9	16.5	16.5	16.4	18.0	19.6	19.3	15.7
Imports	7.4	11.2	9.2	9.4	10.8	12.7	9.3	9.1	9.3	9.1	100.0
Oil	3.9	4.7	2.6	2.7	3.7	5.5	1.9	1.8	1.7	1.7	19.0
Gas	3.5	6.6	6.6	6.7	7.1	7.2	7.3	7.2	7.6	7.4	81.0
Gasoline	0.5	1.1	0.2	0.6	1.1	0.9	0.2	0.0	0.0	0.0	0.4
Diesel	0.5	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1.6
Heating Oil	0.8	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.7
LPG	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	2.2
Exports	514.4	528.6	518.2	542.7	514.1	547.7	555.4	568.8	579.0	602.0	100.0
Oil	360.3	363.3	359.4	368.6	358.4	382.8	380.3	381.3	381.1	393.8	65.4
Gas	154.1	165.3	158.8	174.1	155.7	164.9	175.1	187.5	197.9	208.2	34.6
Gasoline	3.1	4.1	3.4	4.6	3.8	5.0	5.5	4.6	4.4	5.4	0.9
Diesel	42.4	40.2	41.9	43.2	41.0	39.1	38.8	41.3	45.0	42.4	7.0
Heating Oil	59.8	52.7	54.5	61.6	63.3	65.4	49.7	47.1	41.4	45.3	7.5
Aviation Jet	0.0	0.0	0.0	1.9	2.5	2.4	2.5	2.3	2.7	2.8	0.5
LPG	3.6	2.8	2.9	3.4	3.7	4.1	5.4	4.9	5.3	4.9	0.8
CO₂ Emissions (Million tons CO₂)	1,609.5	1,673.7	1,653.1	1,602.7	1,584.4	1,592.1	1,571.5	1,614.4	1,725.4	1,754.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	496.8	490.7	467.5	445.3	437.0	451.9	447.1	451.9	471.0	472.6	-
Final energy intensity (toe/million \$15ppp)	111.0	109.6	105.6	99.8	103.7	105.7	108.4	110.7	110.4	111.4	-
Total energy intensity (toe/million \$15ppp)	212.4	208.4	205.9	196.3	195.0	196.5	203.2	205.0	209.0	209.9	-

*Heat is included

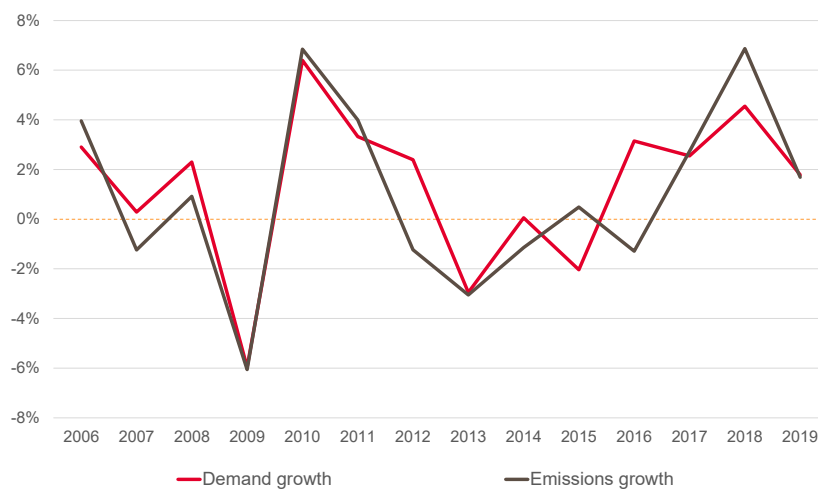
Primary energy demand mix



Electricity generation by source



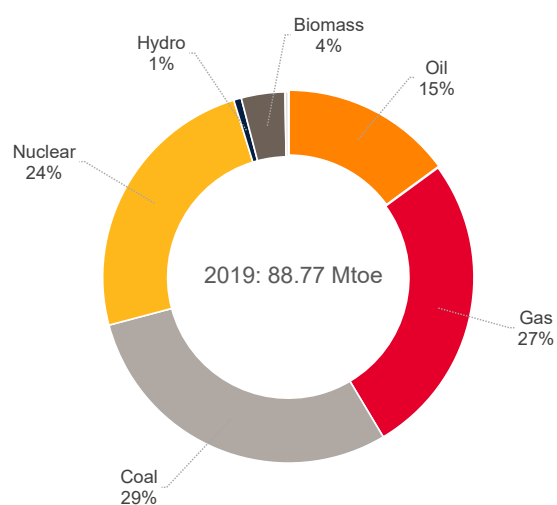
Primary energy demand and CO₂ emissions growth



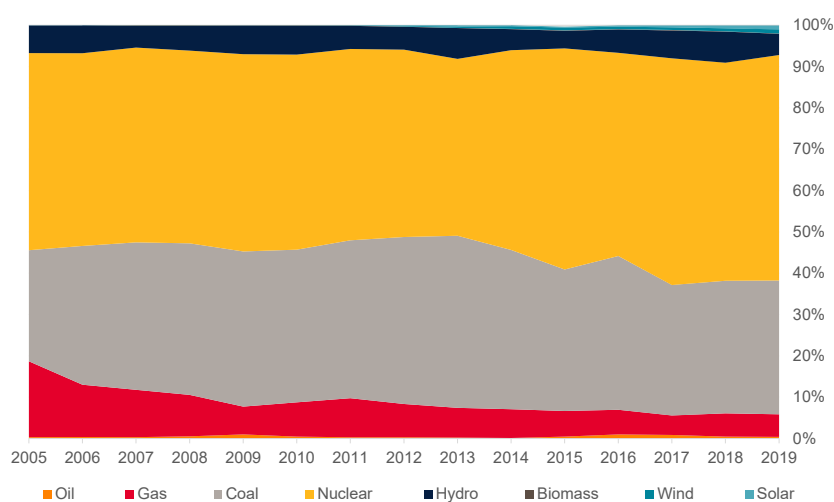
Ukraine (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	132.3	126.4	122.4	116.0	105.6	92.8	91.5	89.4	92.7	88.8	100.0
Oil	13.2	12.5	11.7	10.0	10.8	10.6	11.2	12.8	13.2	13.2	14.9
Gas	55.2	46.8	43.0	39.4	33.4	26.1	25.6	24.5	25.6	23.5	26.5
Coal	38.2	41.5	42.5	41.6	35.6	30.1	29.7	25.8	27.6	26.1	29.4
Nuclear	23.2	23.5	23.5	21.7	23.0	22.8	21.1	22.3	22.0	21.6	24.4
Hydro	1.1	0.9	0.9	1.2	0.7	0.5	0.7	0.8	0.9	0.6	0.7
Biomass	1.6	1.7	1.7	1.9	1.9	2.1	2.8	3.0	3.2	3.4	3.8
Other renewables	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3
Electricity balance of trade*	-0.3	-0.5	-1.0	0.2	0.0	0.5	0.3	0.1	0.1	0.1	0.1
Total final consumption, by source	75.3	77.5	75.3	72.6	63.1	53.4	54.7	51.8	53.5	51.2	100.0
Oil	12.5	12.5	12.5	11.9	10.1	9.5	9.6	9.9	10.4	10.5	20.6
Gas	25.0	26.0	24.6	22.7	18.7	14.6	14.3	13.4	13.4	12.3	24.0
Coal	12.8	14.1	13.5	13.5	13.1	10.3	10.6	8.8	10.1	9.4	18.4
Electricity	11.4	11.9	11.8	11.8	11.0	10.2	10.1	10.0	10.1	10.0	19.5
Heat	12.5	12.0	11.9	11.7	8.9	7.5	8.3	7.8	7.5	6.9	13.4
Biomass	1.0	1.0	1.0	1.1	1.2	1.3	1.7	1.8	1.9	2.1	4.0
Electricity generation, by source	16.2	16.8	17.1	16.7	15.7	14.1	14.2	13.4	13.7	13.1	100.0
Oil	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.4
Gas	1.4	1.6	1.4	1.2	1.1	0.9	0.8	0.6	0.8	0.7	5.4
Coal	6.0	6.4	6.9	7.0	6.1	4.8	5.3	4.2	4.4	4.2	32.4
Nuclear	7.7	7.8	7.8	7.2	7.6	7.5	7.0	7.4	7.3	7.1	54.6
Hydro	1.1	0.9	0.9	1.2	0.8	0.6	0.8	0.9	1.0	0.7	5.1
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.0
Other renewables	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	75.3	77.5	75.3	72.6	63.1	53.4	54.7	51.8	53.5	51.2	100.0
Industry	30.1	31.3	29.1	27.0	24.8	20.6	20.1	18.8	20.3	19.1	37.4
Transport	9.5	9.5	9.7	9.5	8.0	7.2	7.8	8.0	8.0	8.5	16.5
Residential/Commercial	28.4	28.7	28.5	29.2	25.0	20.5	22.0	20.9	20.9	19.8	38.7
Oil final consumption, by sector	12.5	12.5	12.5	11.9	10.1	9.5	9.6	9.9	10.4	10.5	100.0
Industry	1.4	1.4	1.2	1.0	0.9	0.8	0.2	0.4	0.4	0.5	4.5
Transport	8.8	8.7	8.9	8.7	7.3	6.6	7.1	7.4	7.4	7.9	74.8
Residential/Commercial	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	2.0
Natural gas final consumption, by sector	25.0	26.0	24.6	22.7	18.7	14.6	14.3	13.4	13.4	12.3	100.0
Industry	6.4	6.6	5.3	4.4	3.3	2.8	2.5	2.6	2.9	2.7	21.9
Transport	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	14.3	14.5	14.2	14.1	12.5	9.4	9.8	9.5	9.4	8.7	70.4
Refined products consumption	12.5	12.5	12.5	11.9	10.1	9.5	9.6	9.9	10.4	10.5	100.0
Gasoline	4.9	4.6	4.5	4.2	3.3	2.5	2.3	2.1	1.9	1.8	17.0
Diesel	5.6	6.0	6.3	6.1	5.4	5.3	5.2	5.2	5.4	5.7	54.0
Heating Oil	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.8	0.8	0.9	0.9	1.0	0.9	1.5	1.7	1.9	2.3	21.6
Imports	43.5	49.7	36.6	30.7	24.0	21.4	18.5	22.1	20.1	20.6	100.0
Oil	13.9	13.5	10.0	8.1	8.3	8.1	9.7	10.9	11.5	11.8	57.3
Gas	29.6	36.2	26.6	22.6	15.7	13.3	8.8	11.3	8.5	8.8	42.7
Gasoline	2.2	2.3	2.1	1.9	2.3	1.5	1.5	1.3	1.2	1.1	5.4
Diesel	2.5	3.8	4.8	4.4	4.9	4.9	5.2	5.5	5.7	6.4	30.9
Heating Oil	0.5	0.6	0.1	0.0	0.0	0.2	0.4	0.3	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.3	0.3	0.4	0.5	0.7	1.2	1.2	1.4	1.6	7.9
Exports	4.1	4.2	1.7	1.0	0.8	0.1	0.2	0.6	0.6	0.7	100.0
Oil	4.1	4.2	1.7	1.0	0.8	0.1	0.2	0.6	0.6	0.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.6	1.0	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.3
Diesel	0.7	0.9	0.5	0.1	0.1	0.0	0.0	0.2	0.2	0.2	35.0
Heating Oil	2.4	1.8	0.5	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	276.5	290.8	285.1	274.0	231.1	191.7	192.2	176.7	185.0	176.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	721.5	719.3	703.5	676.2	610.5	561.1	549.4	492.5	499.4	462.0	-
Final energy intensity (toe/million \$15ppp)	182.0	176.8	170.6	167.0	157.4	146.5	147.9	137.4	137.3	128.5	-
Total energy intensity (toe/million \$15ppp)	345.1	312.7	302.0	286.5	279.0	271.6	261.5	249.2	250.3	232.2	-

*Heat is included

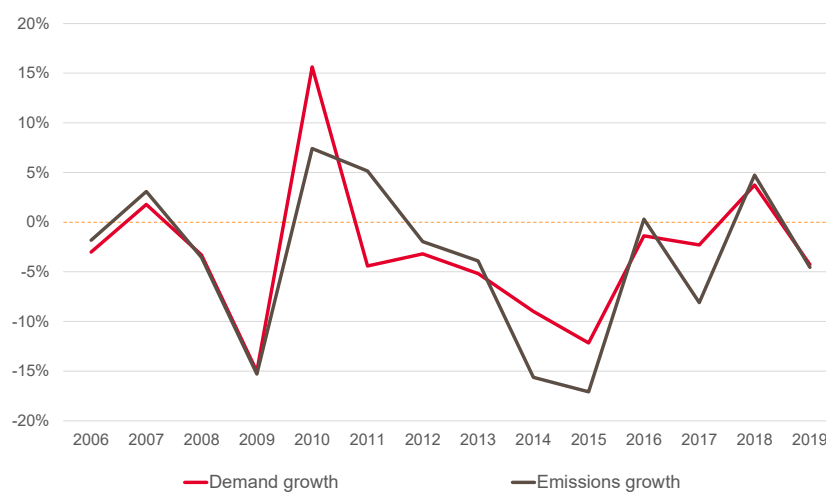
Primary energy demand mix



Electricity generation by source



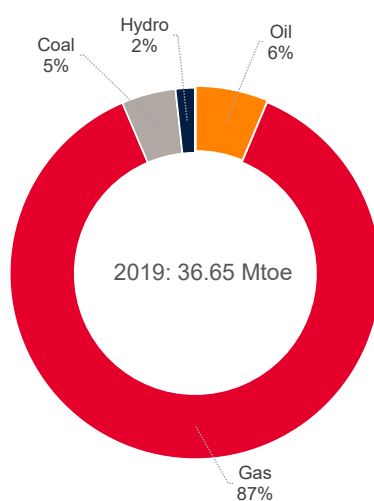
Primary energy demand and CO₂ emissions growth



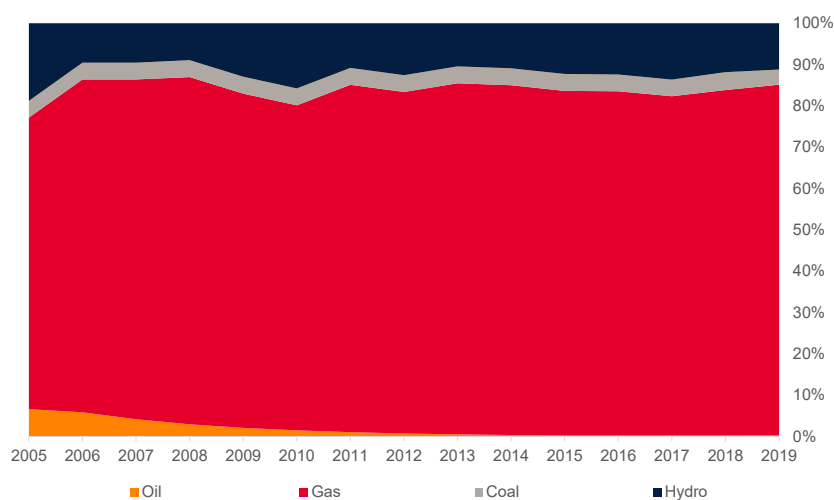
Uzbekistan (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	42.5	46.5	47.9	43.0	43.4	38.6	33.9	33.8	35.6	36.7	100.0
Oil	3.7	3.5	3.1	3.0	2.8	2.6	2.4	2.3	2.4	2.3	6.3
Gas	37.2	41.6	42.9	37.6	38.3	33.9	29.4	29.0	30.5	32.0	87.4
Coal	0.9	1.0	1.4	2.0	1.9	1.6	1.6	1.8	2.0	1.7	4.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.5	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.6	1.7
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Total final consumption, by source	30.6	33.4	34.5	29.1	29.5	25.2	22.5	22.1	23.0	23.8	100.0
Oil	3.4	3.1	2.8	2.7	2.6	2.4	2.2	2.1	2.2	2.1	9.0
Gas	20.8	23.7	25.1	19.7	20.2	16.0	13.3	13.0	13.6	14.3	60.0
Coal	0.3	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	2.0
Electricity	3.2	3.3	3.3	3.4	3.5	3.6	3.7	3.8	4.0	4.0	16.8
Heat	3.0	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.9	12.3
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	4.5	4.5	4.6	4.7	4.8	5.0	5.1	5.3	5.5	5.6	100.0
Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Gas	3.5	3.8	3.8	4.0	4.1	4.1	4.2	4.4	4.6	4.7	84.9
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.5	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.6	11.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	30.6	33.4	34.5	29.1	29.5	25.2	22.5	22.1	23.0	23.8	100.0
Industry	6.7	7.5	8.0	6.6	6.8	5.8	5.1	5.1	5.4	5.5	23.1
Transport	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.4	1.3	5.3
Residential/Commercial	15.9	18.0	18.9	15.1	15.4	12.5	10.7	10.5	11.0	11.4	48.1
Oil final consumption, by sector	3.4	3.1	2.8	2.7	2.6	2.4	2.2	2.1	2.2	2.1	100.0
Industry	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.0
Transport	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.3	1.2	54.7
Residential/Commercial	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.4
Natural gas final consumption, by sector	20.8	23.7	25.1	19.7	20.2	16.0	13.3	13.0	13.6	14.3	100.0
Industry	5.3	6.1	6.4	5.0	5.1	4.1	3.4	3.3	3.4	3.6	25.3
Transport	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	14.4	16.5	17.5	13.6	14.0	11.0	9.2	8.9	9.3	9.8	68.7
Refined products consumption	3.3	3.1	2.8	2.7	2.5	2.3	2.2	2.1	2.2	2.1	100.0
Gasoline	1.5	1.3	1.3	1.1	1.1	1.0	0.9	0.9	0.9	0.8	39.2
Diesel	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.7	0.8	0.9	41.3
Heating Oil	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.9
Aviation Jet	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Imports	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	12.0	10.0	8.5	11.2	12.2	16.9	16.6	17.2	18.5	16.6	100.0
Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.5
Gas	11.7	9.8	8.3	11.0	12.0	16.8	16.5	17.0	18.3	16.5	99.5
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Diesel	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	102.4	112.0	115.4	105.0	105.8	93.7	82.7	82.5	87.3	89.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	791.7	799.6	761.4	641.8	599.7	491.9	402.7	381.5	383.0	371.5	-
Final energy intensity (toe/million \$15ppp)	226.8	228.9	219.0	170.5	160.5	126.7	105.0	97.7	96.8	94.9	-
Total energy intensity (toe/million \$15ppp)	328.6	332.1	316.2	262.4	246.1	202.4	164.9	156.4	156.0	152.3	-

*Heat is included

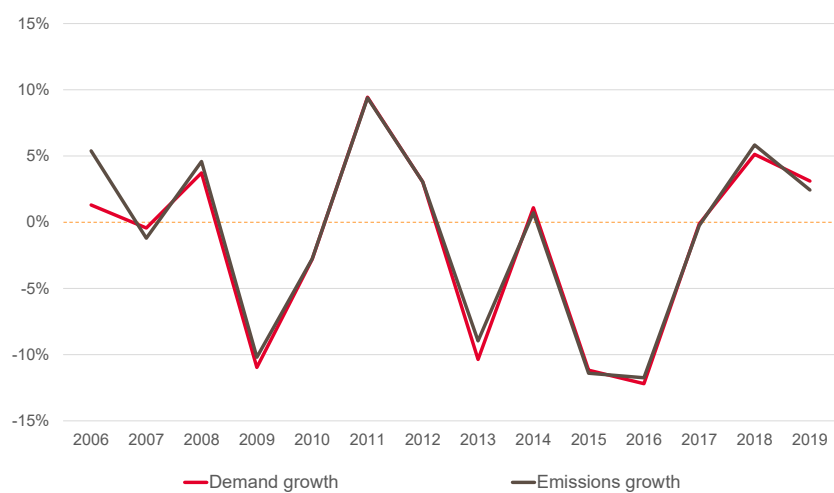
Primary energy demand mix



Electricity generation by source

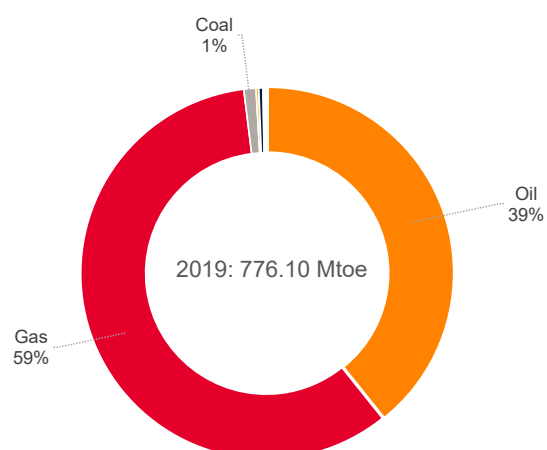


Primary energy demand and CO₂ emissions growth

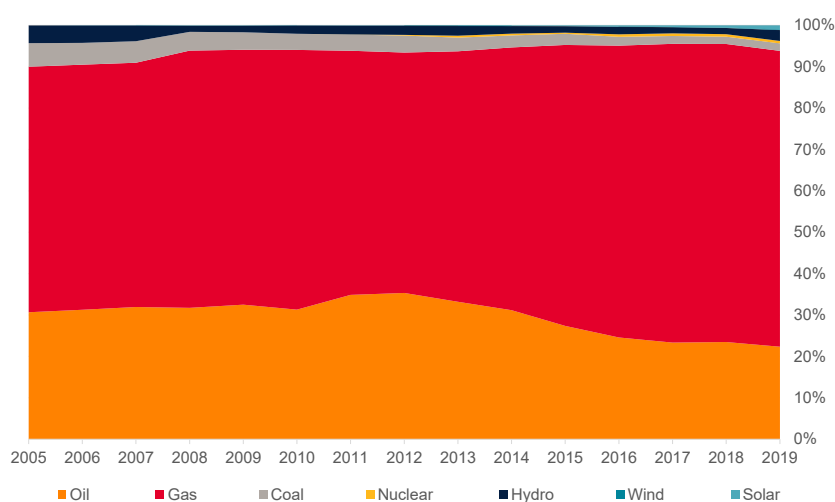


Middle East (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	646.0	648.9	700.7	703.5	750.6	760.8	764.9	777.8	786.7	776.1	100.0
Oil	321.1	305.8	343.4	333.8	360.1	347.2	334.8	336.5	329.9	304.6	39.2
Gas	311.3	329.4	342.1	354.4	375.5	399.2	415.2	426.7	443.3	456.7	58.8
Coal	9.8	9.8	11.6	10.5	10.3	10.0	9.0	8.9	7.9	8.2	1.1
Nuclear	0.0	0.1	0.5	1.2	1.2	0.8	1.7	2.0	1.9	1.8	0.2
Hydro	1.5	1.7	1.8	2.0	1.7	1.5	1.8	1.5	1.6	2.8	0.4
Biomass	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.1
Other renewables	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	1.2	0.2
Electricity balance of trade*	1.2	1.3	0.4	0.5	0.7	1.1	1.0	0.8	0.3	-0.2	-0.0
Total final consumption, by source	429.7	444.9	464.5	471.0	491.0	495.3	496.3	508.5	515.7	523.6	100.0
Oil	218.3	213.7	227.0	227.2	238.1	239.7	234.6	244.6	238.5	233.6	44.6
Gas	145.2	163.7	166.4	168.9	173.3	175.2	177.3	177.8	189.9	202.1	38.6
Coal	1.7	1.6	2.6	3.3	3.7	3.4	3.5	3.9	3.6	3.7	0.7
Electricity	62.3	63.8	67.3	70.2	74.5	75.7	79.5	80.8	82.1	82.6	15.8
Heat	1.3	1.2	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.1
Biomass	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.2
Electricity generation, by source	76.7	78.8	82.4	85.0	90.9	95.7	98.7	102.7	105.5	106.9	100.0
Oil	24.0	27.5	29.1	28.2	28.3	26.2	24.3	23.9	24.8	23.9	22.3
Gas	48.1	46.5	47.9	51.5	57.7	65.0	69.6	74.1	76.0	76.4	71.5
Coal	3.0	3.1	3.4	2.8	2.6	2.6	2.1	2.0	1.8	2.0	1.8
Nuclear	0.0	0.0	0.2	0.4	0.4	0.3	0.6	0.6	0.6	0.6	0.6
Hydro	1.5	1.7	1.8	2.0	1.7	1.5	1.8	1.5	1.6	2.8	2.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.4	0.5	1.1	1.0
Other renewables	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	429.7	444.9	464.5	471.0	491.0	495.3	496.3	508.5	515.7	523.6	100.0
Industry	134.4	139.1	147.5	150.1	157.8	153.8	149.1	154.5	157.5	164.3	31.4
Transport	121.4	124.5	131.7	135.1	137.7	136.5	137.5	139.2	133.5	134.4	25.7
Residential/Commercial	109.1	111.7	110.6	113.4	117.4	122.3	128.0	126.0	131.2	136.1	26.0
Oil final consumption, by sector	218.3	213.7	227.0	227.2	238.1	239.7	234.6	244.6	238.5	233.6	100.0
Industry	35.4	30.9	32.7	34.9	38.7	38.3	34.6	38.7	36.3	37.6	16.1
Transport	116.7	119.2	125.8	129.4	131.7	130.1	131.0	132.6	126.4	126.7	54.2
Residential/Commercial	20.2	19.1	18.8	15.6	15.7	14.8	15.5	15.0	14.9	14.8	6.3
Natural gas final consumption, by sector	145.2	163.7	166.4	168.9	173.3	175.2	177.3	177.8	189.9	202.1	100.0
Industry	83.4	91.4	96.6	95.1	97.8	97.1	93.5	95.1	100.3	105.6	52.3
Transport	4.7	5.3	5.9	5.6	6.0	6.3	6.5	6.5	7.1	7.7	3.8
Residential/Commercial	41.5	45.5	42.8	47.1	47.6	49.4	53.2	50.0	54.5	59.0	29.2
Refined products consumption	212.2	209.5	222.3	222.2	232.9	234.3	231.8	242.3	236.5	231.9	100.0
Gasoline	62.8	64.6	68.4	72.1	73.4	74.5	76.9	81.6	81.5	81.3	35.1
Diesel	71.2	71.1	74.4	74.3	74.5	69.9	67.5	64.8	57.4	58.3	25.1
Heating Oil	18.8	16.7	16.2	17.4	20.9	21.8	21.3	25.3	24.3	25.6	11.0
Aviation Jet	1.2	1.1	1.1	1.1	1.2	1.4	1.3	1.5	1.6	1.5	0.7
LPG	12.9	13.4	15.5	12.4	14.5	17.0	14.1	14.2	14.5	14.3	6.2
Imports	115.0	113.9	119.0	133.3	136.7	145.5	143.3	134.8	146.5	128.2	100.0
Oil	84.5	83.0	94.9	107.7	109.3	113.7	111.1	105.6	116.6	96.4	75.2
Gas	30.5	30.9	24.1	25.6	27.3	31.8	32.2	29.3	29.9	31.8	24.8
Gasoline	17.8	14.3	15.3	18.7	19.5	22.8	24.2	27.0	32.7	21.8	17.0
Diesel	19.0	21.4	28.6	32.2	32.8	32.5	32.0	24.7	27.1	17.8	13.9
Heating Oil	17.4	19.9	21.9	22.5	21.1	22.5	21.0	19.2	22.6	23.3	18.2
Aviation Jet	0.8	0.8	0.4	0.6	0.6	0.6	0.8	0.8	0.9	0.9	0.7
LPG	1.7	1.9	2.1	1.9	1.6	1.6	2.1	1.3	1.2	1.2	0.9
Exports	1,076.9	1,199.8	1,192.7	1,215.9	1,195.4	1,255.8	1,392.0	1,369.6	1,404.2	1,306.8	100.0
Oil	963.8	1,078.0	1,070.6	1,078.2	1,064.4	1,126.4	1,259.6	1,232.7	1,264.5	1,161.8	88.9
Gas	113.0	121.8	122.1	137.6	131.0	129.3	132.3	137.0	139.7	145.0	11.1
Gasoline	5.3	4.6	3.2	2.8	5.1	9.0	13.3	12.3	19.2	10.1	0.8
Diesel	21.7	20.8	22.5	24.1	31.9	46.1	54.8	55.4	69.0	56.4	4.3
Heating Oil	27.3	25.2	24.7	26.5	20.5	24.4	28.6	32.4	31.3	22.2	1.7
Aviation Jet	11.4	11.6	11.3	11.4	9.4	10.2	9.6	10.3	13.0	12.9	1.0
LPG	45.1	52.0	52.3	50.7	54.3	51.0	58.3	57.8	59.9	39.4	3.0
CO₂ Emissions (Million tons CO₂)	1,607.6	1,661.2	1,735.6	1,774.6	1,849.6	1,875.3	1,887.9	1,920.3	1,947.0	1,979.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	323.5	315.4	324.1	323.4	326.5	325.0	309.0	312.1	317.1	325.9	-
Final energy intensity (toe/million \$15ppp)	75.4	73.1	74.6	74.4	74.6	73.1	69.4	69.8	70.4	73.3	-
Total energy intensity (toe/million \$15ppp)	130.0	123.2	130.9	128.2	132.5	131.8	125.2	126.4	128.1	127.7	-

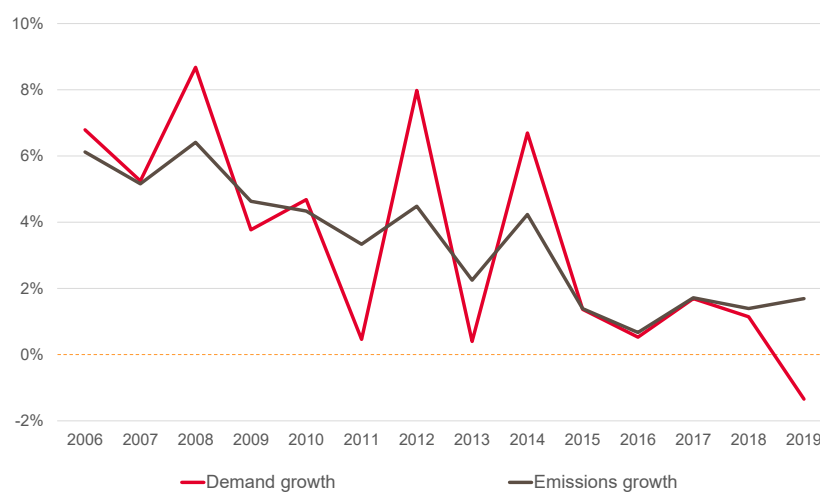
Primary energy demand mix



Electricity generation by source



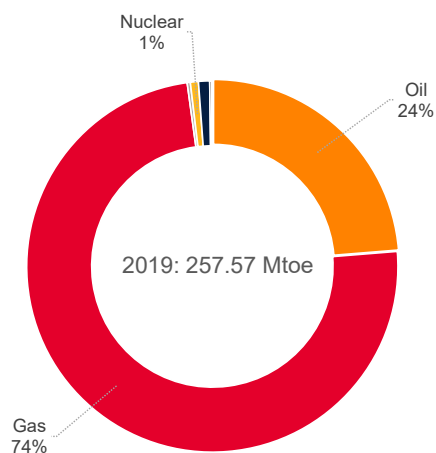
Primary energy demand and CO₂ emissions growth



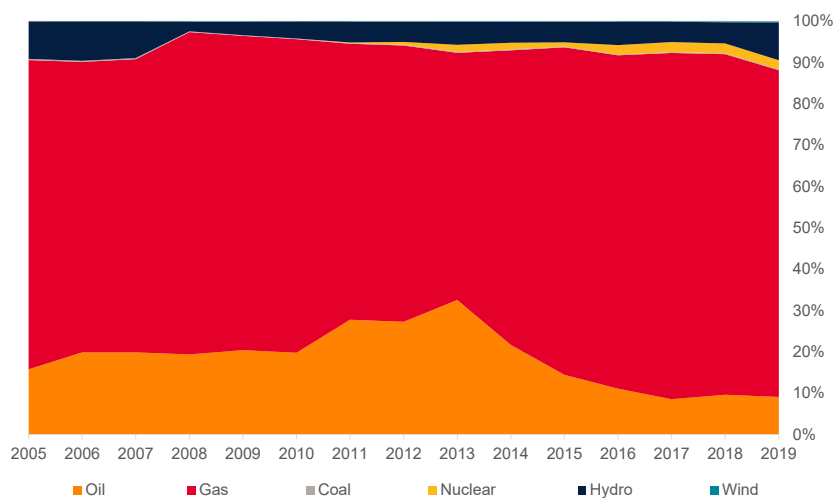
Iran (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	204.3	208.3	216.8	221.0	237.2	237.2	244.8	261.6	271.3	257.6	100.0
Oil	79.5	76.5	85.8	88.2	87.9	78.6	74.0	82.4	83.9	61.2	23.7
Gas	122.1	129.2	128.3	129.3	145.9	155.3	166.3	174.5	183.0	191.3	74.3
Coal	1.5	1.5	1.1	1.2	1.0	1.1	1.1	1.2	0.8	0.7	0.3
Nuclear	0.0	0.1	0.5	1.2	1.2	0.8	1.7	2.0	1.9	1.8	0.7
Hydro	0.8	1.0	1.1	1.3	1.2	1.2	1.4	1.3	1.4	2.5	1.0
Biomass	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Electricity balance of trade*	-0.3	-0.4	-0.6	-0.7	-0.5	-0.2	-0.2	-0.4	-0.3	-0.5	-0.2
Total final consumption, by source	157.6	162.5	163.3	167.7	180.7	180.7	187.8	194.5	204.7	208.5	100.0
Oil	65.0	57.3	60.2	59.7	66.6	66.1	64.0	68.5	69.0	63.4	30.4
Gas	75.2	87.5	84.7	88.9	93.5	94.9	101.4	102.6	112.1	121.3	58.2
Coal	0.8	0.9	0.7	1.0	1.1	1.1	1.1	1.2	1.3	1.3	0.6
Electricity	16.0	16.3	17.1	17.6	19.0	18.2	20.7	21.7	21.9	22.0	10.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Electricity generation, by source	20.0	20.6	21.9	22.6	23.6	24.1	24.9	26.5	26.7	27.1	100.0
Oil	4.0	5.7	6.0	7.3	5.1	3.5	2.8	2.3	2.6	2.5	9.1
Gas	15.2	13.8	14.6	13.5	16.8	19.1	20.1	22.2	22.0	21.4	79.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
Nuclear	0.0	0.0	0.2	0.4	0.4	0.3	0.6	0.6	0.6	0.6	2.2
Hydro	0.8	1.0	1.1	1.3	1.2	1.2	1.4	1.3	1.4	2.5	9.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	157.6	162.5	163.3	167.7	180.7	180.7	187.8	194.5	204.7	208.5	100.0
Industry	39.0	41.1	41.9	42.2	48.2	45.7	45.5	46.9	50.2	53.3	25.6
Transport	39.7	39.4	41.5	42.7	43.6	42.0	43.3	45.4	46.7	47.8	22.9
Residential/Commercial	57.9	58.8	55.1	57.6	60.4	62.1	66.2	63.6	68.1	72.0	34.5
Oil final consumption, by sector	65.0	57.3	60.2	59.7	66.6	66.1	64.0	68.5	69.0	63.4	100.0
Industry	7.8	5.7	5.5	5.3	8.4	8.0	4.1	3.9	3.7	3.7	5.8
Transport	35.0	34.1	35.6	37.0	37.6	35.7	36.8	38.8	39.6	40.1	63.2
Residential/Commercial	9.2	7.8	7.5	5.3	6.4	6.1	6.1	5.5	5.5	5.2	8.2
Natural gas final consumption, by sector	75.2	87.5	84.7	88.9	93.5	94.9	101.4	102.6	112.1	121.3	100.0
Industry	25.1	28.8	29.8	30.0	32.5	32.1	33.6	35.2	38.5	41.7	34.3
Transport	4.7	5.3	5.9	5.6	6.0	6.3	6.5	6.5	7.1	7.7	6.3
Residential/Commercial	39.6	42.7	39.0	43.3	44.0	45.3	49.0	46.3	50.6	54.8	45.2
Refined products consumption	65.0	57.3	60.2	59.7	66.6	66.1	64.0	68.5	69.0	63.4	100.0
Gasoline	17.6	16.8	17.8	19.2	19.5	19.9	21.0	22.6	23.2	23.2	36.6
Diesel	25.1	23.6	24.1	24.2	24.0	21.5	21.3	22.1	22.4	23.0	36.2
Heating Oil	6.0	3.8	3.7	3.3	6.3	5.8	2.0	1.1	0.9	0.7	1.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.8	2.5	2.5	0.6	2.3	2.4	2.4	2.4	2.4	2.4	3.7
Imports	16.8	13.3	6.2	7.7	10.1	11.7	10.2	8.6	9.6	10.8	100.0
Oil	9.2	3.3	2.2	3.2	3.8	4.4	5.2	5.4	5.6	5.9	54.5
Gas	7.6	10.0	3.9	4.5	6.4	7.2	5.0	3.3	4.0	4.9	45.5
Gasoline	4.3	1.4	0.4	1.0	1.3	2.8	3.4	3.5	3.7	4.0	37.0
Diesel	1.4	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	148.3	148.1	86.4	82.1	85.2	92.3	156.7	171.1	155.9	112.6	100.0
Oil	141.1	140.1	78.6	74.3	77.0	84.6	149.0	159.9	142.4	96.0	85.3
Gas	7.2	8.0	7.9	7.9	8.2	7.7	7.7	11.2	13.4	16.6	14.7
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.1	0.6	0.6	0.2	0.0	1.8	3.5	2.1	2.1	2.1	1.9
Heating Oil	9.7	9.9	5.5	8.1	6.1	9.1	15.2	15.2	15.3	9.6	8.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	4.1	4.1	3.0	2.0	3.3	3.2	3.1	2.9	2.9	1.3	1.2
CO₂ Emissions (Million tons CO₂)	515.2	531.2	535.9	553.8	584.6	579.0	582.3	602.1	626.3	637.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	360.5	362.2	394.7	408.8	412.5	414.0	367.2	385.9	402.4	443.4	-
Final energy intensity (toe/million \$15ppp)	100.1	99.4	107.0	110.4	112.4	112.3	102.3	99.5	111.2	126.1	-
Total energy intensity (toe/million \$15ppp)	143.0	142.0	159.7	163.1	167.3	169.6	154.4	159.0	174.3	179.1	-

*Heat is included

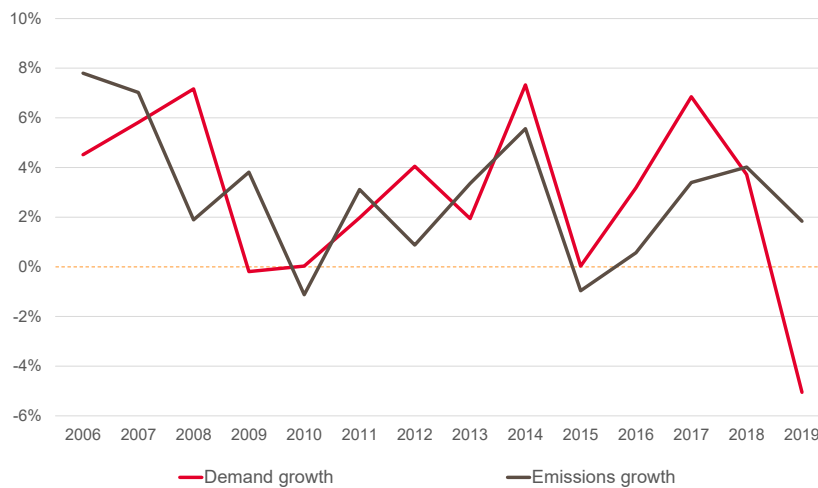
Primary energy demand mix



Electricity generation by source



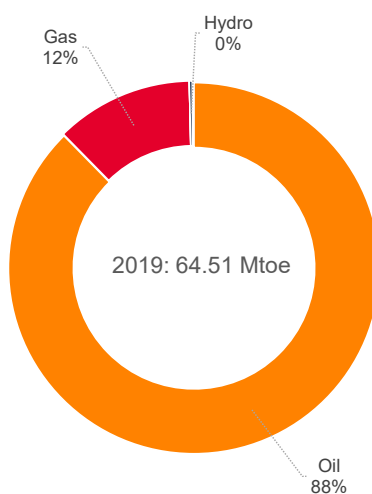
Primary energy demand and CO₂ emissions growth



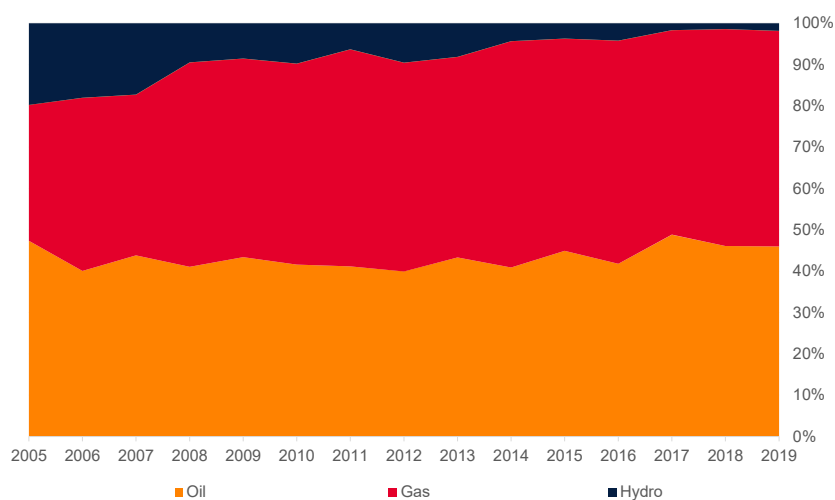
Iraq (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	36.8	41.0	46.8	49.5	49.6	46.8	55.6	61.5	63.4	64.5	100.0
Oil	31.7	34.0	39.8	42.3	42.7	39.7	48.0	53.2	55.5	56.3	87.3
Gas	4.2	6.1	5.7	5.7	5.5	5.7	6.2	7.1	7.4	7.7	12.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.4	0.3	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.3
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.5	0.6	0.9	1.0	1.1	1.1	1.0	1.0	0.3	0.3	0.4
Total final consumption, by source	19.1	22.9	26.0	26.4	21.4	17.4	18.5	20.3	21.6	22.4	100.0
Oil	15.8	18.2	19.9	20.1	16.1	13.1	13.8	15.4	16.4	17.1	76.2
Gas	0.2	1.3	3.0	2.4	1.6	1.2	1.4	1.4	1.4	1.5	6.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.0	3.3	3.0	3.9	3.8	3.1	3.3	3.4	3.7	3.8	17.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	4.2	4.6	4.0	5.0	5.8	5.9	6.9	7.5	8.9	9.3	100.0
Oil	1.7	1.9	1.6	2.2	2.4	2.7	2.9	3.7	4.1	4.3	46.0
Gas	2.0	2.4	2.0	2.4	3.2	3.0	3.7	3.7	4.7	4.8	52.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.4	0.3	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.2	1.8
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	-0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	19.1	22.9	26.0	26.4	21.4	17.4	18.5	20.3	21.6	22.4	100.0
Industry	3.1	4.0	6.3	5.8	4.8	3.5	3.6	3.7	3.9	4.0	17.9
Transport	9.3	11.0	11.9	11.8	9.7	8.3	8.5	9.6	10.7	11.0	49.1
Residential/Commercial	6.3	6.5	6.6	7.3	6.1	5.1	6.1	6.4	6.5	6.9	30.8
Oil final consumption, by sector	15.8	18.2	19.9	20.1	16.1	13.1	13.8	15.4	16.4	17.1	100.0
Industry	2.3	2.8	3.0	3.1	2.5	2.0	1.9	2.2	2.3	2.3	13.6
Transport	9.3	11.0	11.9	11.8	9.7	8.3	8.5	9.6	10.7	11.0	64.4
Residential/Commercial	3.8	3.9	4.3	4.3	3.2	2.6	3.2	3.4	3.2	3.5	20.6
Natural gas final consumption, by sector	0.2	1.3	3.0	2.4	1.6	1.2	1.4	1.4	1.4	1.5	100.0
Industry	0.2	0.6	2.5	1.9	1.4	1.0	1.2	1.1	1.2	1.2	83.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	15.8	18.2	19.9	20.1	16.1	13.1	13.8	15.4	16.4	17.1	100.0
Gasoline	5.2	5.9	6.3	6.1	5.0	4.8	5.0	5.7	6.4	6.7	39.0
Diesel	6.1	7.6	8.3	8.4	6.9	5.3	5.2	5.9	6.4	6.5	38.1
Heating Oil	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	1.8	1.7	2.0	2.2	1.8	1.3	1.9	1.9	2.0	2.1	12.3
Imports	8.5	9.2	11.9	12.6	14.5	13.7	17.1	16.8	14.6	15.7	100.0
Oil	8.5	9.2	11.9	12.6	14.5	13.7	17.1	16.8	14.6	15.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.8	2.4	2.5	2.2	2.0	2.1	2.3	2.6	2.8	3.0	19.2
Diesel	5.6	5.7	8.4	9.4	11.6	10.7	13.8	13.6	10.8	11.8	75.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.5	0.5	0.2	0.3	0.3	0.4	0.5	0.4	0.5	0.5	3.4
LPG	0.2	0.2	0.4	0.5	0.4	0.3	0.3	0.0	0.0	0.0	0.0
Exports	95.8	109.1	122.1	119.9	127.2	152.8	192.0	194.6	195.8	201.5	100.0
Oil	95.8	109.1	122.1	119.9	127.2	152.8	192.0	194.6	195.8	201.5	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.2	0.1	0.1	0.5	0.4	0.4	0.3	3.5	1.7	2.2	1.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	104.1	112.2	128.0	137.1	141.7	131.7	141.2	140.8	155.3	160.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	249.3	249.7	249.9	249.0	255.5	231.6	219.8	223.7	248.2	247.2	-
Final energy intensity (toe/million \$15ppp)	44.6	47.9	48.2	45.3	37.0	29.7	28.3	31.4	33.8	33.8	-
Total energy intensity (toe/million \$15ppp)	88.1	91.2	91.5	89.8	89.4	82.2	86.5	97.7	101.4	99.2	-

*Heat is included

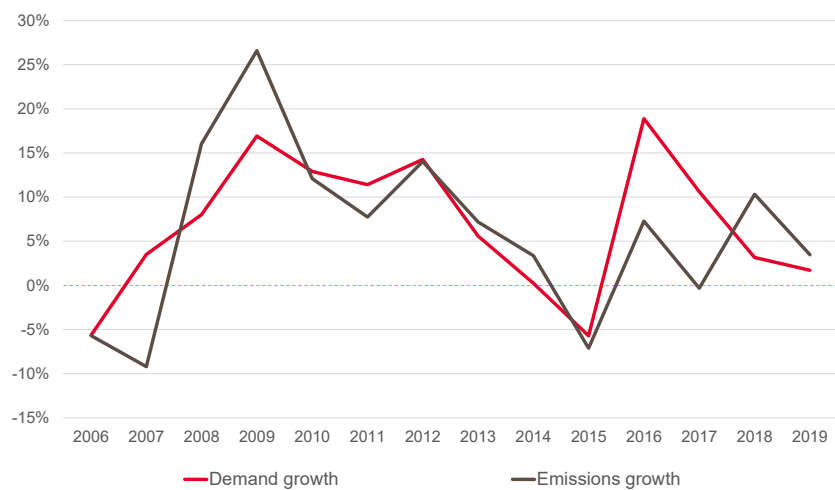
Primary energy demand mix



Electricity generation by source



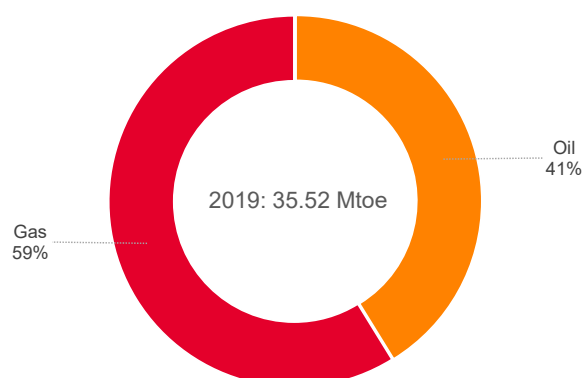
Primary energy demand and CO₂ emissions growth



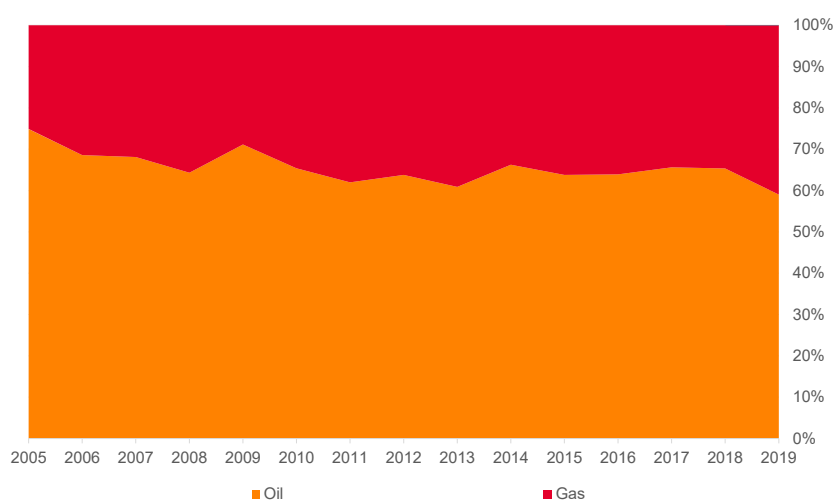
Kuwait (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	32.1	31.0	34.4	33.7	32.0	34.5	36.4	34.0	34.2	35.5	100.0
Oil	20.2	17.1	19.6	18.6	17.0	17.5	18.2	15.5	15.0	14.6	41.2
Gas	11.9	13.9	14.8	15.1	15.0	17.1	18.2	18.5	19.2	20.9	58.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by source	15.1	15.6	17.1	15.9	17.1	18.1	19.2	19.3	19.8	20.3	100.0
Oil	8.6	8.2	9.3	8.5	8.5	8.8	8.8	8.3	8.3	8.5	42.0
Gas	3.3	4.2	4.3	4.1	4.8	5.6	6.5	6.9	7.2	7.4	36.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.2	3.2	3.4	3.4	3.7	3.7	3.9	4.2	4.3	4.4	21.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	4.9	4.9	5.4	5.2	5.6	5.9	6.0	6.3	6.4	6.5	100.0
Oil	3.2	3.1	3.4	3.2	3.7	3.7	3.9	4.1	4.2	3.8	59.0
Gas	1.7	1.9	2.0	2.1	1.9	2.1	2.2	2.2	2.2	2.7	41.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	-0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	15.1	15.6	17.1	15.9	17.1	18.1	19.2	19.3	19.8	20.3	100.0
Industry	4.7	5.6	5.8	5.5	6.3	7.1	8.0	8.3	8.6	8.9	43.8
Transport	4.2	3.9	4.2	4.4	4.5	4.7	4.8	4.4	4.5	4.7	23.1
Residential/Commercial	2.9	2.9	3.1	3.1	3.3	3.4	3.5	3.8	4.0	4.0	19.7
Oil final consumption, by sector	8.6	8.2	9.3	8.5	8.5	8.8	8.8	8.3	8.3	8.5	100.0
Industry	0.9	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.7	8.3
Transport	4.2	3.9	4.2	4.4	4.5	4.7	4.8	4.4	4.5	4.7	55.0
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	4.7
Natural gas final consumption, by sector	3.3	4.2	4.3	4.1	4.8	5.6	6.5	6.9	7.2	7.4	100.0
Industry	3.3	4.2	4.3	4.1	4.8	5.6	6.5	6.9	7.2	7.4	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	8.6	8.2	9.3	8.5	8.5	8.8	8.8	8.3	8.3	8.5	100.0
Gasoline	2.9	2.7	2.8	3.0	3.1	3.3	3.2	2.8	2.8	3.0	35.4
Diesel	2.2	2.1	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	27.9
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	3.4
Imports	2.3	2.8	2.2	1.8	2.7	3.3	4.1	4.5	4.4	4.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	2.3	2.8	2.2	1.8	2.7	3.3	4.1	4.5	4.4	4.6	100.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	104.0	124.7	139.6	137.1	135.8	136.3	141.7	132.8	135.4	131.6	100.0
Oil	104.0	124.7	139.6	137.1	135.8	136.3	141.7	132.8	135.4	131.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Diesel	7.3	7.3	7.7	7.2	7.2	7.0	6.5	5.3	5.5	5.3	4.0
Heating Oil	3.6	4.3	5.2	3.3	3.6	4.9	4.4	3.6	3.4	3.3	2.5
Aviation Jet	2.0	2.0	2.2	2.0	1.8	1.9	1.6	0.9	1.0	1.1	0.8
LPG	4.2	4.6	5.1	4.9	5.0	5.4	6.3	7.3	7.4	7.6	5.8
CO₂ Emissions (Million tons CO₂)	78.8	80.1	79.8	87.7	83.8	93.3	94.8	90.9	91.9	94.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	327.5	303.5	283.4	308.0	293.0	324.0	317.9	314.1	313.5	319.8	-
Final energy intensity (toe/million \$15ppp)	48.9	46.9	46.7	45.6	49.4	52.7	54.6	57.1	58.6	59.5	-
Total energy intensity (toe/million \$15ppp)	133.3	117.5	122.3	118.5	111.7	119.9	122.1	117.5	116.6	120.3	-

*Heat is included

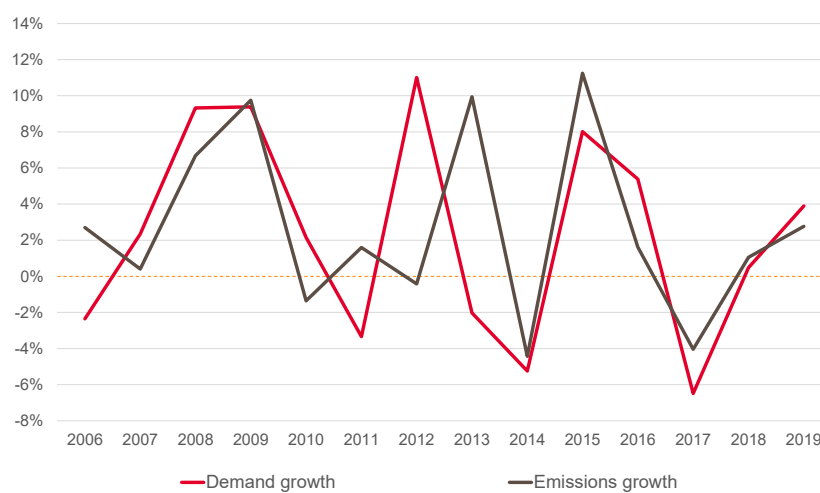
Primary energy demand mix



Electricity generation by source



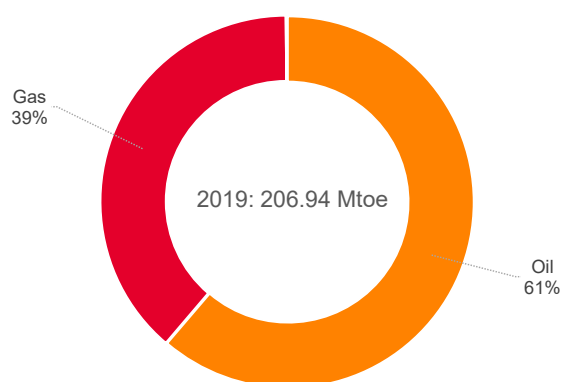
Primary energy demand and CO₂ emissions growth



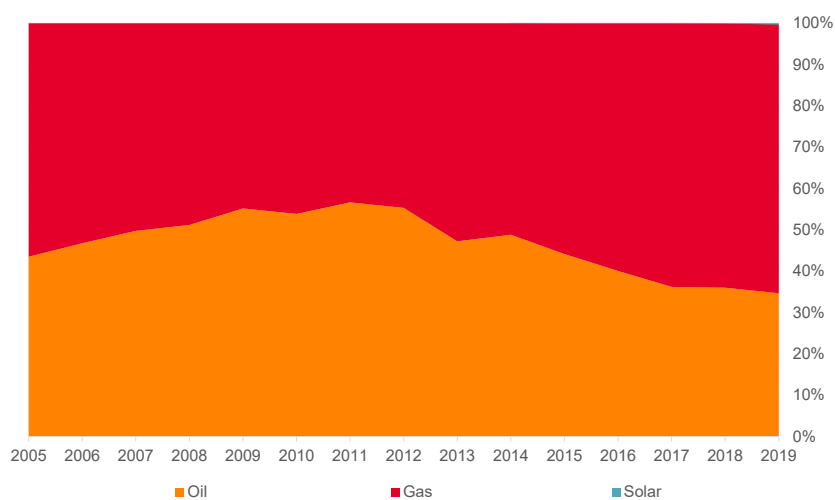
Saudi Arabia (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	185.5	176.7	199.4	191.4	213.4	221.7	210.1	211.3	204.6	206.9	100.0
Oil	125.6	115.7	133.1	124.4	143.8	150.4	135.9	133.3	125.5	126.7	61.2
Gas	59.9	61.0	66.2	66.9	69.5	71.3	74.1	78.0	79.0	80.1	38.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Electricity balance of trade*	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by source	120.6	123.4	133.7	133.4	141.4	144.2	139.5	140.7	134.7	135.5	100.0
Oil	75.9	76.5	82.9	85.1	90.3	98.7	93.8	94.5	88.2	88.8	65.5
Gas	27.3	28.9	30.5	26.6	28.0	21.2	21.3	22.5	22.8	23.1	17.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	17.4	18.1	20.3	21.7	23.1	24.3	24.4	23.7	23.7	23.5	17.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	20.6	21.5	23.4	24.4	26.8	29.1	29.7	29.9	30.2	30.1	100.0
Oil	11.1	12.2	12.9	11.5	13.1	12.8	11.9	10.8	10.9	10.5	34.7
Gas	9.5	9.3	10.4	12.9	13.7	16.2	17.8	19.1	19.3	19.6	65.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Other renewables	-0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	120.6	123.4	133.7	133.4	141.4	144.2	139.5	140.7	134.7	135.5	100.0
Industry	43.8	43.9	46.5	46.0	48.5	43.0	42.3	47.2	45.3	46.8	34.6
Transport	35.2	37.0	40.3	41.6	43.9	47.5	45.7	41.8	34.4	34.0	25.1
Residential/Commercial	16.3	16.9	18.5	18.9	20.4	22.6	22.7	22.6	22.2	22.1	16.3
Oil final consumption, by sector	75.9	76.5	82.9	85.1	90.3	98.7	93.8	94.5	88.2	88.8	100.0
Industry	18.2	16.7	17.5	20.2	21.1	23.1	23.0	26.9	24.6	25.9	29.1
Transport	35.2	37.0	40.3	41.6	43.9	47.5	45.7	41.8	34.4	34.0	38.3
Residential/Commercial	1.6	1.9	1.7	1.6	1.5	1.7	1.8	1.8	1.7	1.7	1.9
Natural gas final consumption, by sector	27.3	28.9	30.5	26.6	28.0	21.2	21.3	22.5	22.8	23.1	100.0
Industry	23.2	24.4	25.8	21.8	23.4	16.6	15.9	17.4	17.6	17.9	77.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	69.7	72.2	78.2	80.1	85.1	93.2	91.0	92.2	86.3	87.1	100.0
Gasoline	19.0	20.4	22.1	23.1	23.9	25.6	25.5	26.1	24.4	23.9	27.5
Diesel	18.9	19.3	21.2	21.7	23.2	25.3	23.0	17.7	10.8	10.9	12.5
Heating Oil	8.7	9.2	9.0	11.2	11.9	13.4	16.5	21.6	20.8	22.3	25.6
Aviation Jet	0.7	0.7	0.7	0.8	0.8	0.9	0.8	1.0	1.1	1.1	1.3
LPG	3.7	3.7	5.1	4.3	4.7	7.7	4.1	4.3	4.5	4.3	5.0
Imports	9.7	10.4	16.9	24.8	24.2	30.2	28.9	25.3	37.4	18.9	100.0
Oil	9.7	10.4	16.9	24.8	24.2	30.2	28.9	25.3	37.4	18.9	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	3.9	2.4	4.2	6.1	7.2	10.1	9.4	9.1	14.0	3.9	20.8
Diesel	4.2	6.1	8.5	12.5	11.9	12.6	11.1	4.5	9.9	1.5	8.2
Heating Oil	0.0	1.2	3.2	5.4	3.2	5.2	7.2	10.1	11.2	11.9	62.6
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	358.7	415.0	441.5	443.6	431.3	453.3	476.0	450.7	492.7	434.5	100.0
Oil	358.7	415.0	441.5	443.6	431.3	453.3	476.0	450.7	492.7	434.5	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	3.0	2.0	1.2	1.1	3.7	7.2	9.6	8.3	14.3	5.5	1.3
Diesel	6.0	4.1	5.0	5.3	12.3	20.3	29.1	30.6	41.8	30.9	7.1
Heating Oil	9.3	5.8	9.8	9.6	5.6	4.8	3.6	4.5	5.9	3.0	0.7
Aviation Jet	0.2	0.2	0.3	0.3	0.7	0.2	0.7	0.3	0.3	0.2	0.1
LPG	24.1	25.4	26.1	25.1	25.8	22.9	28.4	27.8	30.8	15.3	3.5
CO₂ Emissions (Million tons CO₂)	435.1	451.2	481.7	488.6	524.3	550.7	546.3	551.5	529.8	534.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	327.0	308.3	312.3	308.4	319.3	322.1	314.3	320.0	300.1	301.7	-
Final energy intensity (toe/million \$15ppp)	71.9	67.1	68.5	67.5	68.9	66.2	63.7	64.7	57.8	58.2	-
Total energy intensity (toe/million \$15ppp)	139.4	120.8	129.3	120.8	129.9	129.7	120.9	122.6	115.9	116.9	-

*Heat is included

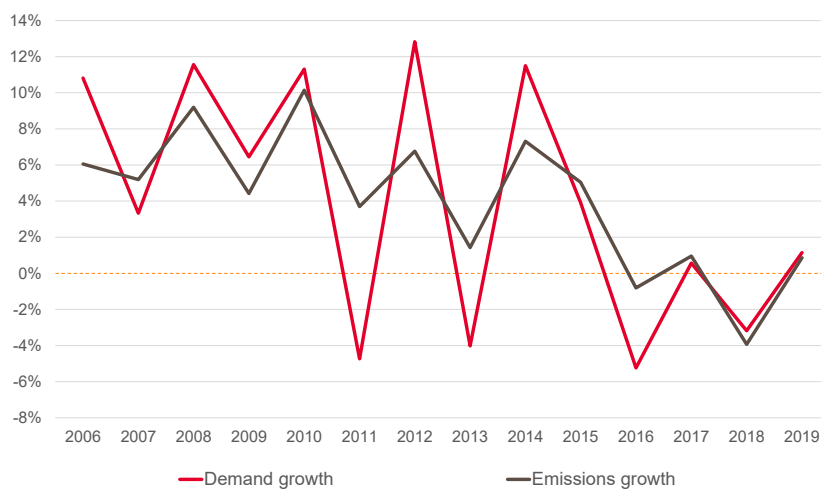
Primary energy demand mix



Electricity generation by source



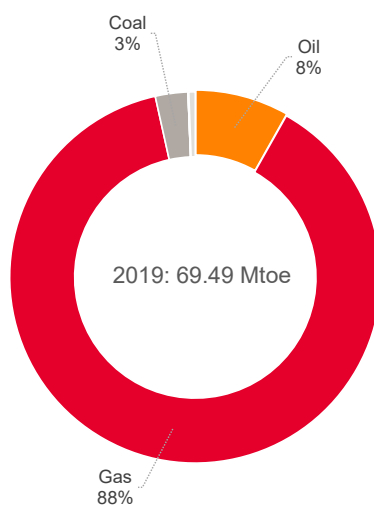
Primary energy demand and CO₂ emissions growth



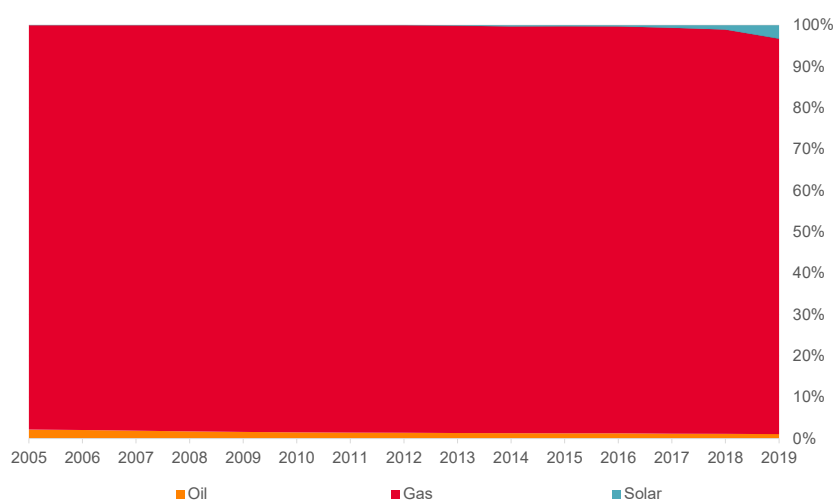
United Arab Emirates (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	61.0	60.3	63.8	67.2	74.3	77.9	78.5	67.7	68.2	69.5	100.0
Oil	10.9	8.8	8.8	10.8	18.5	16.0	16.0	5.9	5.8	5.6	8.1
Gas	49.3	51.0	53.6	54.7	53.7	60.1	60.5	59.5	60.1	60.8	87.6
Coal	0.7	0.4	1.4	1.8	2.0	1.7	1.8	2.1	1.9	2.0	2.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.6
Electricity balance of trade*	0.0	0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.6	0.9
Total final consumption, by source	44.9	47.5	49.0	52.2	51.0	56.0	52.7	52.9	53.0	53.6	100.0
Oil	12.5	13.8	14.2	15.7	16.6	15.2	16.7	18.8	18.4	17.8	33.3
Gas	24.5	25.9	25.8	26.8	23.8	29.6	24.3	22.0	22.7	23.6	44.0
Coal	0.7	0.4	1.4	1.8	2.0	1.7	1.8	2.1	1.9	2.0	3.7
Electricity	7.3	7.4	7.6	7.9	8.7	9.5	9.8	9.9	10.0	10.2	19.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	8.4	8.5	8.8	9.1	10.0	11.0	11.1	11.6	11.7	11.9	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Gas	8.3	8.4	8.7	9.0	9.9	10.8	11.0	11.4	11.4	11.4	95.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	3.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	44.9	47.5	49.0	52.2	51.0	56.0	52.7	52.9	53.0	53.6	100.0
Industry	26.7	28.1	28.9	30.4	27.7	33.5	28.5	26.5	27.0	27.9	52.1
Transport	10.0	10.1	10.3	11.7	12.0	10.4	11.7	13.8	13.7	13.3	24.9
Residential/Commercial	6.8	6.8	7.1	7.3	8.0	8.8	8.9	9.0	9.1	9.2	17.1
Oil final consumption, by sector	12.5	13.8	14.2	15.7	16.6	15.2	16.7	18.8	18.4	17.8	100.0
Industry	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.3	1.4	1.3	7.5
Transport	10.0	10.1	10.3	11.7	12.0	10.4	11.7	13.8	13.7	13.3	74.8
Residential/Commercial	0.2	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	1.9
Natural gas final consumption, by sector	24.5	25.9	25.8	26.8	23.8	29.6	24.3	22.0	22.7	23.6	100.0
Industry	24.3	25.6	25.6	26.6	23.5	29.3	24.0	21.8	22.4	23.3	98.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	12.5	13.8	14.2	15.7	16.6	15.2	16.7	18.8	18.4	17.8	100.0
Gasoline	5.4	5.5	5.9	7.3	7.7	7.2	8.0	10.0	10.4	10.1	56.8
Diesel	4.4	4.4	4.2	4.1	4.0	2.9	3.4	3.5	3.0	2.9	16.1
Heating Oil	1.1	1.2	1.2	1.2	1.2	1.3	1.4	1.2	1.3	1.3	7.3
Aviation Jet	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	1.8
LPG	0.6	1.2	1.3	1.4	1.7	1.8	1.9	1.9	1.7	1.7	9.5
Imports	30.3	33.0	33.4	37.0	36.0	37.6	35.3	29.7	32.9	33.5	100.0
Oil	16.1	18.2	17.7	20.7	19.8	20.1	18.2	14.7	17.3	17.4	51.8
Gas	14.2	14.8	15.7	16.3	16.2	17.5	17.2	15.0	15.6	16.1	48.2
Gasoline	3.0	2.7	2.6	4.5	4.1	3.4	4.3	6.8	7.1	7.1	21.3
Diesel	0.1	0.9	0.7	1.4	0.5	2.4	0.7	0.2	0.6	0.6	1.9
Heating Oil	13.1	13.9	14.2	14.2	14.5	14.0	11.6	6.7	8.9	9.0	26.8
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Exports	130.8	152.8	156.7	164.9	158.3	170.1	169.8	168.6	168.9	171.7	100.0
Oil	124.4	146.6	150.7	159.0	151.9	163.9	163.6	162.9	163.0	165.6	96.5
Gas	6.4	6.1	6.0	5.8	6.4	6.2	6.1	5.8	5.9	6.0	3.5
Gasoline	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.1	3.3	3.3	1.9
Diesel	0.7	1.0	0.6	1.0	0.7	5.6	5.7	7.3	9.3	9.3	5.4
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	3.9	4.0	4.0	4.5	2.6	4.3	4.1	4.5	6.4	6.4	3.7
LPG	2.6	5.8	6.2	6.4	7.9	8.2	9.2	8.7	7.8	7.8	4.6
CO₂ Emissions (Million tons CO₂)	155.9	160.1	170.6	178.9	178.8	189.0	194.6	199.1	199.2	199.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	308.3	296.1	302.0	301.5	288.6	290.4	290.3	294.6	289.9	286.3	-
Final energy intensity (toe/million \$15ppp)	86.2	83.2	82.0	83.4	77.1	81.0	73.4	73.0	72.5	72.5	-
Total energy intensity (toe/million \$15ppp)	120.6	111.6	113.0	113.3	119.9	119.7	117.2	100.2	99.3	99.8	-

*Heat is included

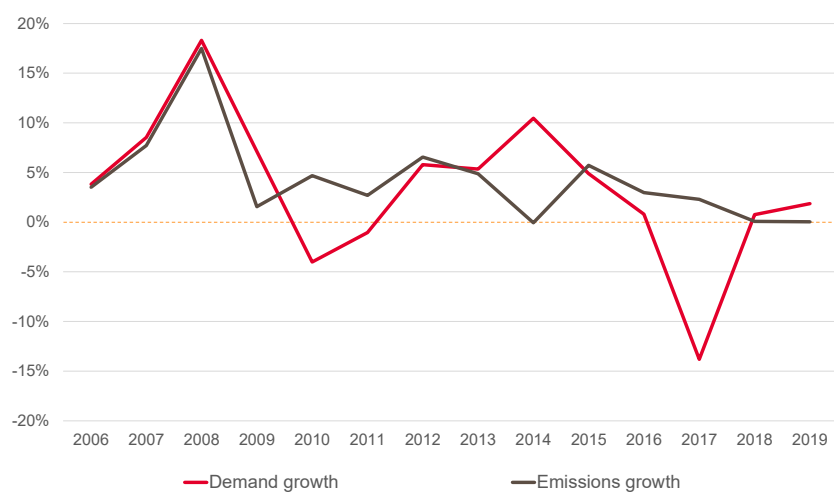
Primary energy demand mix



Electricity generation by source



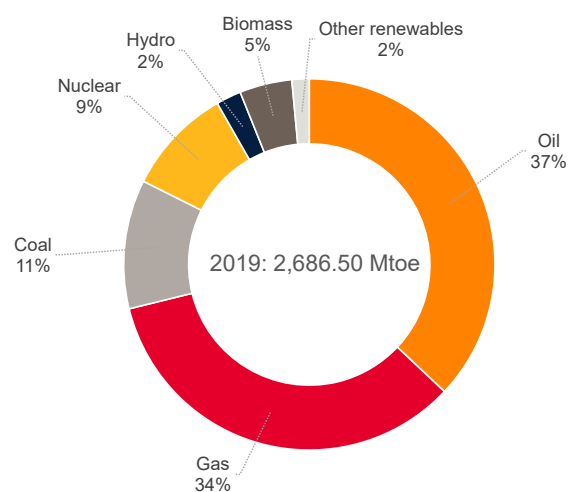
Primary energy demand and CO₂ emissions growth



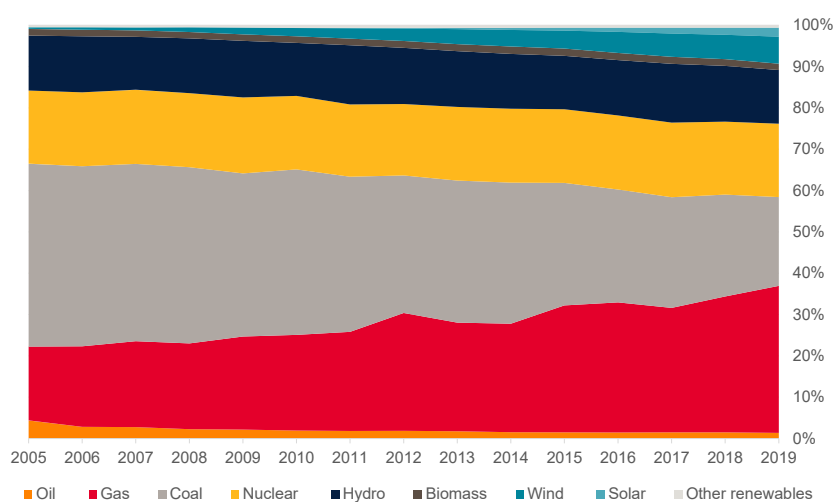
North America (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	2,656.8	2,644.8	2,613.3	2,656.2	2,685.8	2,659.7	2,636.9	2,630.6	2,712.9	2,686.5	100.0
Oil	997.2	978.2	976.0	972.1	973.0	989.0	976.3	981.0	997.7	988.3	36.8
Gas	685.8	708.1	737.7	756.4	777.0	798.7	813.9	807.1	884.9	911.8	33.9
Coal	538.4	513.7	456.7	463.1	463.6	403.6	372.2	360.3	342.9	300.2	11.2
Nuclear	243.8	241.1	235.8	244.3	246.9	245.9	248.0	247.8	249.3	249.3	9.3
Hydro	56.0	63.1	59.4	59.4	58.7	57.1	59.1	62.5	61.0	58.4	2.2
Biomass	110.6	112.8	117.5	125.9	128.4	125.2	123.5	124.2	124.9	121.7	4.5
Other renewables	9.4	12.0	14.4	18.0	20.7	23.0	27.9	32.0	35.6	40.3	1.5
Electricity balance of trade*	15.6	15.8	15.8	17.0	17.3	17.4	16.0	15.7	16.6	16.4	0.6
Total final consumption, by source	1,808.4	1,780.4	1,749.8	1,797.2	1,817.1	1,809.5	1,814.7	1,821.7	1,878.4	1,868.1	100.0
Oil	925.9	886.6	875.2	883.8	887.8	905.9	912.2	910.1	929.3	923.5	49.4
Gas	359.0	364.4	351.5	379.5	395.2	377.8	377.2	387.3	414.9	419.6	22.5
Coal	39.9	39.7	35.4	35.4	34.0	31.6	27.1	28.2	27.0	26.8	1.4
Electricity	388.5	390.5	385.8	388.9	390.6	387.4	391.0	388.0	397.5	389.7	20.9
Heat	9.4	9.7	9.7	9.2	9.0	8.9	9.8	8.8	9.4	9.9	0.5
Biomass	85.6	89.4	92.3	100.4	100.4	97.9	97.4	99.2	100.2	98.7	5.3
Electricity generation, by source	452.2	454.6	449.9	452.6	456.0	455.3	456.6	453.0	466.2	462.7	100.0
Oil	8.7	8.2	8.3	8.0	6.9	6.7	6.6	6.7	6.9	6.3	1.4
Gas	104.6	109.0	128.3	118.9	119.6	139.8	143.8	136.3	153.2	164.7	35.6
Coal	181.1	170.7	149.8	155.6	155.9	135.0	124.8	121.5	115.1	99.3	21.5
Nuclear	80.5	79.6	77.8	80.6	81.5	81.2	81.8	81.8	82.3	82.3	17.8
Hydro	58.0	65.1	61.1	61.1	60.5	58.8	61.1	64.5	62.9	60.1	13.0
Biomass	7.2	7.3	7.5	7.7	8.2	8.1	8.0	7.6	7.6	7.2	1.5
Wind	9.0	11.4	13.5	16.5	18.3	19.6	23.2	25.5	27.6	30.2	6.5
Solar	0.4	0.6	1.0	1.5	2.4	3.3	4.6	6.5	8.0	10.2	2.2
Other renewables	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	0.6
Total final consumption, by sector	1,808.4	1,780.4	1,749.8	1,797.2	1,817.1	1,809.5	1,814.7	1,821.7	1,878.4	1,868.1	100.0
Industry	350.6	350.4	353.1	352.8	349.8	349.3	350.3	351.3	355.1	350.3	18.8
Transport	693.3	677.4	671.2	689.9	689.7	711.1	720.2	722.4	732.3	728.8	39.0
Residential/Commercial	571.7	564.7	531.0	567.6	581.1	558.5	550.9	548.7	585.0	583.7	31.2
Oil final consumption, by sector	925.9	886.6	875.2	883.8	887.8	905.9	912.2	910.1	929.3	923.5	100.0
Industry	36.9	30.6	30.4	30.2	27.4	30.2	31.8	29.5	29.7	27.7	3.0
Transport	667.3	647.6	635.9	651.2	650.7	670.5	676.8	678.4	688.6	685.1	74.2
Residential/Commercial	49.3	42.8	37.4	38.7	36.6	38.9	38.0	36.0	37.2	37.7	4.1
Natural gas final consumption, by sector	359.0	364.4	351.5	379.5	395.2	377.8	377.2	387.3	414.9	419.6	100.0
Industry	134.2	137.4	144.0	143.8	148.0	147.9	152.0	152.5	158.2	159.5	38.0
Transport	0.7	0.7	0.8	0.7	0.9	1.0	1.1	1.3	1.4	1.4	0.3
Residential/Commercial	206.8	207.9	186.9	215.2	226.3	207.6	199.5	203.8	226.3	229.5	54.7
Refined products consumption	922.4	884.6	873.1	881.4	885.3	901.6	909.2	905.7	924.8	919.0	100.0
Gasoline	457.0	433.1	429.4	434.8	436.2	448.3	456.2	452.2	453.8	451.6	49.1
Diesel	227.8	227.5	223.3	223.2	230.5	225.6	221.7	222.9	232.7	227.0	24.7
Heating Oil	11.0	8.2	6.8	3.4	2.5	4.9	4.0	4.0	3.9	4.3	0.5
Aviation Jet	52.6	52.8	53.1	54.6	55.7	58.1	60.6	63.8	65.4	66.7	7.3
LPG	59.2	45.7	46.8	52.1	48.4	49.8	48.5	46.3	47.8	47.0	5.1
Imports	826.8	807.1	759.1	697.3	663.3	691.3	742.6	751.0	749.3	705.6	100.0
Oil	708.5	686.0	641.5	586.3	559.1	581.7	620.5	624.8	622.1	577.4	81.8
Gas	118.3	121.1	117.7	111.0	104.2	109.6	122.1	126.2	127.2	128.2	18.2
Gasoline	58.1	56.7	53.1	50.3	48.8	55.0	60.7	58.3	63.9	68.2	9.7
Diesel	15.5	15.3	14.4	15.5	18.8	20.5	19.9	22.8	27.1	24.6	3.5
Heating Oil	22.7	21.1	19.3	16.4	12.9	13.2	13.8	14.3	15.4	11.9	1.7
Aviation Jet	6.7	6.5	5.8	6.9	8.1	11.0	12.1	12.9	13.1	17.2	2.4
LPG	4.5	7.0	7.2	7.3	7.2	8.3	10.4	12.1	13.0	12.4	1.8
Exports	433.1	471.6	486.6	505.4	543.5	580.7	627.1	711.9	792.5	851.4	100.0
Oil	327.0	360.0	376.0	400.5	443.5	474.0	505.7	566.4	640.3	678.6	79.7
Gas	106.1	111.5	110.6	104.9	100.1	106.7	121.4	145.5	152.2	172.8	20.3
Gasoline	22.4	29.6	29.7	29.8	31.8	35.9	43.1	46.8	53.1	50.6	5.9
Diesel	40.3	50.0	58.3	64.8	61.5	65.7	66.2	76.4	70.5	72.0	8.5
Heating Oil	32.0	31.4	28.3	29.0	30.6	27.3	25.4	25.3	25.7	18.8	2.2
Aviation Jet	5.3	5.6	7.0	8.3	8.5	8.8	9.2	10.2	12.2	12.4	1.5
LPG	0.4	0.5	0.6	0.7	17.6	24.8	31.4	35.9	39.6	46.7	5.5
CO₂ Emissions (Million tons CO₂)	6,438.8	6,259.2	6,073.4	6,176.2	6,205.6	6,069.9	5,969.8	5,903.4	6,052.2	5,923.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	326.9	311.9	295.7	295.3	289.4	275.4	266.4	257.6	256.9	246.4	-
Final energy intensity (toe/million \$15ppp)	91.8	88.7	85.2	85.9	84.7	82.1	81.0	79.5	79.7	77.7	-
Total energy intensity (toe/million \$15ppp)	134.9	131.8	127.2	127.0	125.3	120.7	117.7	114.8	115.2	111.8	-

*Heat is included

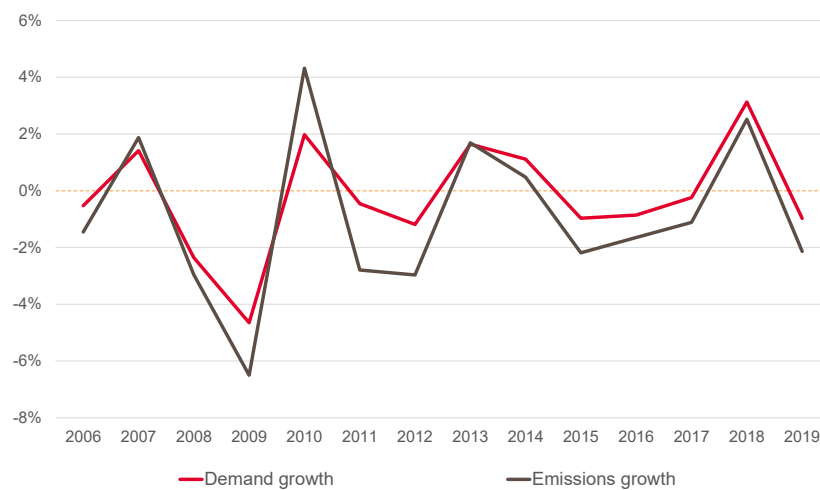
Primary energy demand mix



Electricity generation by source



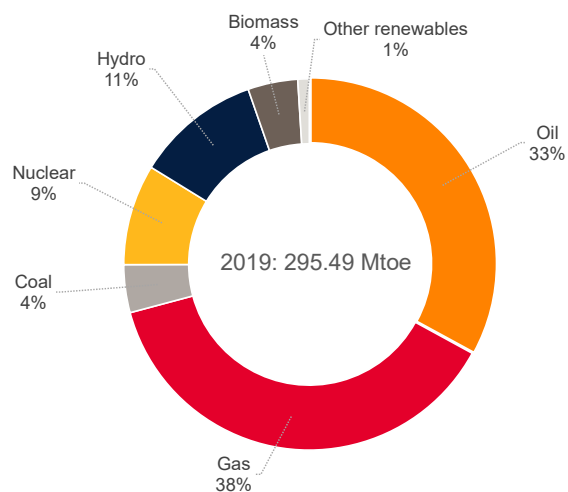
Primary energy demand and CO₂ emissions growth



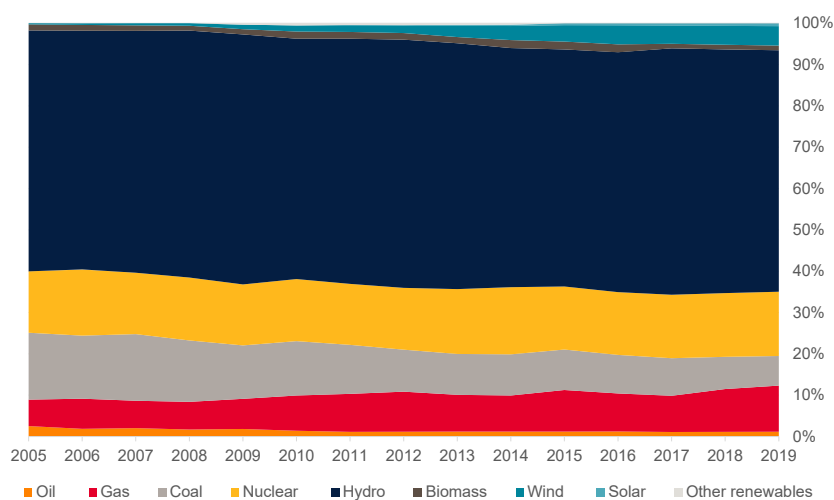
Canada (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	260.8	266.4	269.3	273.9	280.9	281.7	283.1	289.5	297.9	295.5	100.0
Oil	96.7	95.9	97.9	95.6	99.1	105.1	99.9	100.5	100.5	98.7	33.4
Gas	75.7	82.4	83.7	87.9	89.1	87.6	95.1	100.8	111.5	113.4	38.4
Coal	22.5	20.1	19.4	18.1	19.3	18.0	18.3	16.9	14.6	12.5	4.2
Nuclear	23.6	24.4	24.7	27.0	28.0	26.5	26.4	26.4	26.2	26.3	8.9
Hydro	30.2	32.3	32.7	33.7	32.9	32.9	33.3	33.8	33.0	32.6	11.0
Biomass	13.1	13.4	13.5	14.2	14.2	14.1	12.8	13.7	13.4	13.0	4.4
Other renewables	0.8	0.9	1.0	1.7	2.1	2.5	2.9	2.8	2.9	3.0	1.0
Electricity balance of trade*	-1.9	-2.9	-3.8	-4.2	-3.7	-5.1	-5.5	-5.3	-4.1	-4.0	-1.3
Total final consumption, by source	188.6	195.9	194.9	195.9	194.1	190.6	188.7	192.8	197.6	199.5	100.0
Oil	89.5	90.9	92.7	91.4	89.8	91.2	92.5	89.5	89.5	88.9	44.6
Gas	40.0	43.6	42.2	44.3	45.6	44.4	42.4	44.3	48.7	51.6	25.9
Coal	4.0	4.5	4.3	3.7	3.7	3.3	3.2	3.4	3.6	3.6	1.8
Electricity	44.2	45.4	44.0	44.1	43.1	40.1	40.3	43.2	43.6	43.7	21.9
Heat	0.5	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.3
Biomass	10.5	10.8	11.0	11.7	11.1	10.9	9.6	11.8	11.5	11.1	5.6
Electricity generation, by source	51.9	54.5	54.5	56.7	56.8	57.3	57.3	56.6	55.9	55.8	100.0
Oil	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	1.1
Gas	4.4	5.0	5.3	5.0	5.0	5.8	5.3	5.0	5.8	6.2	11.2
Coal	6.8	6.5	5.5	5.6	5.7	5.6	5.3	5.1	4.4	4.0	7.2
Nuclear	7.8	8.0	8.2	8.9	9.2	8.8	8.7	8.7	8.6	8.7	15.5
Hydro	30.2	32.3	32.7	33.7	32.9	32.9	33.3	33.8	33.0	32.6	58.4
Biomass	0.9	0.9	0.9	0.9	1.1	1.1	1.1	0.6	0.6	0.6	1.2
Wind	0.8	0.9	1.0	1.5	1.9	2.3	2.6	2.5	2.5	2.6	4.7
Solar	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.7
Other renewables	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	188.6	195.9	194.9	195.9	194.1	190.6	188.7	192.8	197.6	199.5	100.0
Industry	42.8	44.1	44.3	44.7	43.9	43.5	42.1	45.6	47.4	47.0	23.6
Transport	57.3	57.9	58.7	60.2	59.5	58.9	59.2	59.3	60.4	60.0	30.1
Residential/Commercial	60.5	64.0	60.7	62.0	62.4	58.5	56.8	60.1	62.2	65.0	32.6
Oil final consumption, by sector	89.5	90.9	92.7	91.4	89.8	91.2	92.5	89.5	89.5	88.9	100.0
Industry	4.6	4.6	4.6	4.4	4.1	4.7	4.8	5.0	4.9	4.8	5.4
Transport	56.0	56.2	56.9	58.2	57.5	57.0	57.4	56.9	58.1	57.7	64.8
Residential/Commercial	5.3	5.7	5.4	5.0	4.7	4.9	4.7	4.6	4.3	4.2	4.8
Natural gas final consumption, by sector	40.0	43.6	42.2	44.3	45.6	44.4	42.4	44.3	48.7	51.6	100.0
Industry	12.7	13.9	14.3	14.9	14.9	14.5	14.2	14.7	16.5	16.4	31.8
Transport	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	23.6	25.5	23.6	25.3	27.1	25.7	24.1	25.6	27.8	30.7	59.4
Refined products consumption	89.5	90.9	92.7	91.4	89.8	91.2	92.5	89.5	89.5	88.9	100.0
Gasoline	34.2	33.8	33.9	34.8	34.2	34.9	36.2	35.8	35.2	35.1	39.5
Diesel	26.5	28.0	27.1	27.3	27.3	27.1	25.7	25.4	26.9	24.7	27.8
Heating Oil	2.7	2.2	2.2	1.8	1.7	1.5	1.4	1.5	1.9	2.5	2.8
Aviation Jet	4.0	4.2	5.0	5.4	5.3	5.4	5.8	6.0	6.6	7.3	8.3
LPG	3.1	3.5	3.6	3.1	2.8	2.7	2.8	3.1	2.0	2.5	2.8
Imports	74.0	81.3	84.1	78.8	74.5	80.1	82.5	77.2	73.6	78.6	100.0
Oil	55.3	55.3	58.0	56.5	56.2	63.5	65.5	57.1	55.7	60.0	76.3
Gas	18.7	26.0	26.1	22.3	18.3	16.6	17.0	20.1	17.9	18.6	23.7
Gasoline	3.7	4.4	3.1	2.6	2.6	3.1	4.0	3.7	2.9	3.6	4.6
Diesel	0.7	1.7	0.7	1.2	1.5	1.9	2.0	1.1	1.7	1.9	2.4
Heating Oil	0.9	0.4	0.7	1.1	1.0	0.6	0.7	0.8	0.7	0.7	0.9
Aviation Jet	2.6	3.3	2.5	2.4	2.6	3.0	2.8	2.5	3.7	5.7	7.3
LPG	0.2	0.4	0.2	0.1	0.2	0.1	0.3	0.3	0.0	0.1	0.1
Exports	203.8	214.0	225.1	233.8	239.9	251.1	261.2	276.1	288.1	289.6	100.0
Oil	124.7	137.2	151.6	165.0	174.6	185.1	192.4	205.1	220.8	226.2	78.1
Gas	79.1	76.8	73.5	68.8	65.3	66.0	68.7	71.0	67.3	63.4	21.9
Gasoline	6.8	6.0	6.3	6.6	6.5	7.7	7.8	8.7	7.9	7.0	2.4
Diesel	7.1	6.4	8.0	8.1	6.5	6.8	6.8	7.7	5.8	5.7	2.0
Heating Oil	2.7	2.8	3.7	4.4	3.5	3.0	2.9	2.8	3.2	1.9	0.7
Aviation Jet	0.4	0.3	0.4	0.5	0.4	0.5	0.5	1.0	1.0	1.2	0.4
LPG	0.4	0.5	0.5	0.6	0.7	0.4	0.2	0.2	0.1	0.2	0.1
CO₂ Emissions (Million tons CO₂)	548.3	560.7	562.0	570.9	574.3	577.6	567.0	564.7	572.4	569.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	385.0	381.7	376.0	372.7	364.5	363.0	351.4	339.6	337.4	330.2	-
Final energy intensity (toe/million \$15ppp)	116.7	117.2	113.6	113.1	109.5	105.4	102.2	103.3	104.4	103.8	-
Total energy intensity (toe/million \$15ppp)	183.1	181.4	180.2	178.8	178.3	177.0	175.4	174.1	175.6	171.4	-

*Heat is included

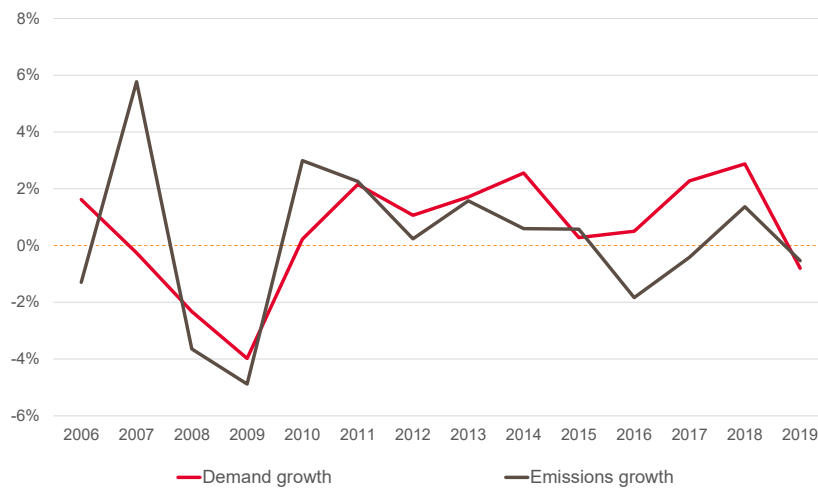
Primary energy demand mix



Electricity generation by source



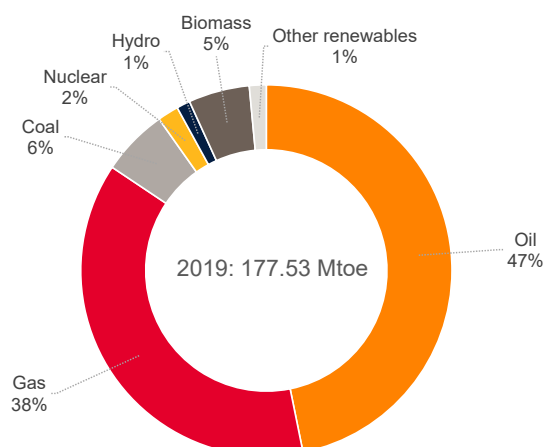
Primary energy demand and CO₂ emissions growth



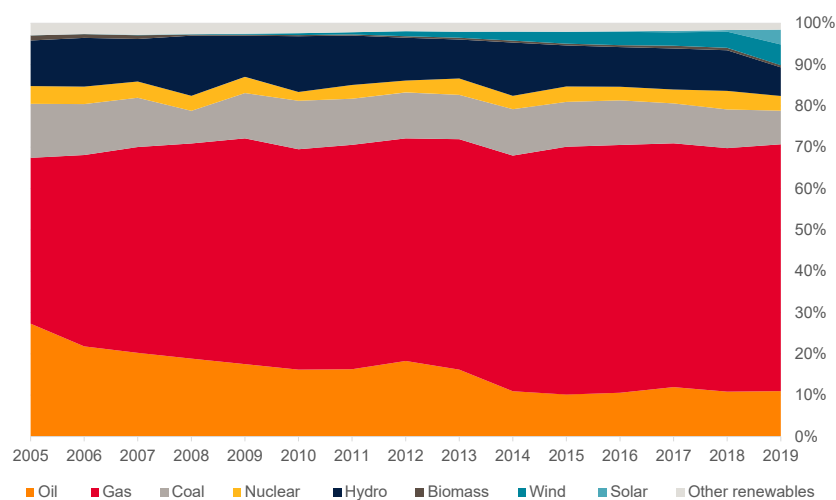
Mexico (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	178.6	187.0	191.8	192.1	188.4	184.9	184.9	180.1	179.9	177.5	100.0
Oil	94.5	97.8	102.6	98.9	96.8	90.4	88.0	85.9	85.6	81.7	46.0
Gas	54.2	57.1	59.3	62.2	60.5	64.6	66.2	62.6	62.7	65.5	36.9
Coal	13.3	14.5	12.7	12.9	12.7	11.4	12.4	12.7	11.3	10.1	5.7
Nuclear	1.5	2.6	2.3	3.1	2.5	3.0	2.8	2.8	3.9	3.2	1.8
Hydro	3.2	3.1	2.7	2.4	3.3	2.7	2.6	2.8	2.8	2.1	1.2
Biomass	8.1	8.0	8.4	9.0	8.7	8.6	8.7	9.1	9.2	9.3	5.2
Other renewables	0.1	0.1	0.3	0.4	0.6	0.8	0.9	1.0	1.2	2.6	1.4
Electricity balance of trade*	3.7	3.6	3.4	3.3	3.2	3.4	3.4	3.3	3.1	3.1	1.7
Total final consumption, by source	118.0	121.1	120.0	120.3	119.6	120.6	122.5	123.1	122.2	120.8	100.0
Oil	74.5	74.2	73.3	72.3	73.1	72.7	75.2	73.0	74.3	70.3	58.2
Gas	12.9	13.7	14.3	14.9	14.2	13.9	14.3	15.1	12.0	13.3	11.0
Coal	4.8	5.7	3.8	4.6	3.4	4.6	2.6	4.2	3.2	3.1	2.6
Electricity	18.5	20.1	21.3	20.8	21.7	22.1	23.3	23.4	25.0	26.0	21.6
Heat	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Biomass	7.1	7.2	7.1	7.6	7.0	6.9	6.9	7.2	7.4	7.7	6.3
Electricity generation, by source	23.7	26.0	26.4	25.6	25.9	26.7	27.6	27.7	28.5	29.7	100.0
Oil	3.8	4.2	4.8	4.1	2.8	2.7	2.9	3.3	3.1	3.3	11.0
Gas	12.6	14.1	14.2	14.3	14.8	16.0	16.5	16.3	16.8	17.8	59.7
Coal	2.8	2.9	2.9	2.7	2.9	2.9	3.0	2.7	2.7	2.4	8.1
Nuclear	0.5	0.9	0.8	1.0	0.8	1.0	0.9	0.9	1.3	1.1	3.6
Hydro	3.2	3.1	2.7	2.4	3.3	2.7	2.6	2.8	2.8	2.1	6.9
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.5
Wind	0.1	0.1	0.3	0.4	0.6	0.8	0.9	0.9	1.1	1.5	5.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	3.6
Other renewables	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
Total final consumption, by sector	118.0	121.1	120.0	120.3	119.6	120.6	122.5	123.1	122.2	120.8	100.0
Industry	33.5	36.2	35.8	36.8	34.6	36.1	35.8	38.1	34.7	35.3	29.2
Transport	51.1	51.4	51.7	51.1	51.3	51.1	52.9	51.4	53.3	51.8	42.9
Residential/Commercial	22.5	22.7	23.0	22.9	23.5	24.0	24.2	24.1	24.6	25.0	20.7
Oil final consumption, by sector	74.5	74.2	73.3	72.3	73.1	72.7	75.2	73.0	74.3	70.3	100.0
Industry	5.8	5.9	5.9	5.8	5.7	6.2	7.0	6.4	5.7	4.5	6.5
Transport	51.0	51.3	51.6	51.0	51.2	51.0	52.8	51.3	53.1	51.7	73.4
Residential/Commercial	8.1	8.0	8.1	7.7	7.7	7.6	7.4	7.3	7.3	6.9	9.8
Natural gas final consumption, by sector	12.9	13.7	14.3	14.9	14.2	13.9	14.3	15.1	12.0	13.3	100.0
Industry	11.5	12.1	12.7	13.3	12.4	12.4	12.7	13.7	10.8	12.0	90.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5
Residential/Commercial	1.0	0.9	1.0	1.0	1.1	1.0	1.0	1.0	0.8	0.9	7.0
Refined products consumption	74.5	74.2	73.3	72.3	73.1	72.7	75.2	73.0	74.3	70.3	100.0
Gasoline	35.8	35.7	35.9	35.2	34.7	35.4	36.8	35.6	38.1	37.6	53.5
Diesel	18.4	19.0	19.6	19.0	19.5	19.0	19.6	18.6	18.0	16.7	23.8
Heating Oil	1.4	1.1	1.2	0.6	0.5	0.5	0.8	0.7	0.3	0.2	0.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	10.0	9.9	9.8	10.1	10.1	9.9	9.9	9.9	10.0	9.6	13.6
Imports	42.8	47.4	51.7	51.2	54.1	65.2	78.6	87.0	102.0	100.7	100.0
Oil	30.1	32.9	32.8	29.2	30.5	35.1	43.1	51.3	59.4	54.5	54.1
Gas	12.6	14.5	18.9	22.0	23.6	30.2	35.5	35.7	42.6	46.2	45.9
Gasoline	16.6	17.6	17.3	15.5	16.1	18.6	22.0	23.2	27.6	27.2	27.0
Diesel	6.0	6.8	6.7	5.4	6.7	7.4	9.5	12.9	15.2	11.2	11.2
Heating Oil	0.6	1.4	2.4	1.7	0.7	0.9	1.4	2.2	2.0	2.4	2.4
Aviation Jet	0.2	0.0	0.2	0.2	0.6	1.1	1.6	2.1	2.8	2.8	2.8
LPG	2.9	3.0	3.3	3.0	3.3	3.9	5.1	6.3	7.0	6.1	6.0
Exports	88.1	85.2	78.7	76.3	74.1	72.0	75.1	73.0	74.3	68.8	100.0
Oil	87.4	85.2	78.7	76.3	74.0	72.0	75.1	73.0	74.3	68.8	100.0
Gas	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.1	0.2	0.1	0.5	0.1	0.3	0.8	0.2	0.2	0.2	0.3
Heating Oil	6.7	5.5	3.8	5.2	7.0	6.8	6.2	5.7	5.2	4.6	6.7
Aviation Jet	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.1
CO₂ Emissions (Million tons CO₂)	444.9	460.8	462.8	453.0	437.9	445.4	448.7	448.1	438.3	433.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	230.9	230.7	223.5	215.9	203.0	199.9	195.7	191.5	183.4	181.6	-
Final energy intensity (toe/million \$15ppp)	57.4	57.2	55.3	54.6	52.5	51.7	51.1	50.4	49.0	48.8	-
Total energy intensity (toe/million \$15ppp)	92.7	93.6	92.6	91.5	87.4	83.0	80.6	77.0	75.3	74.4	-

*Heat is included

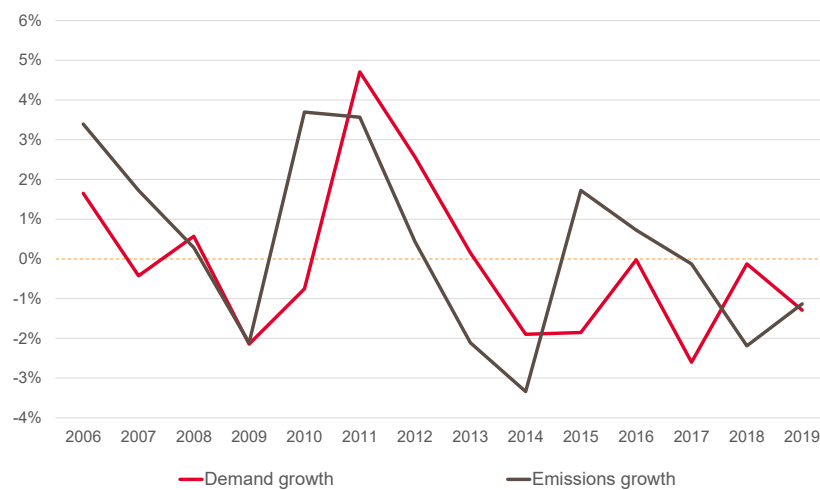
Primary energy demand mix



Electricity generation by source



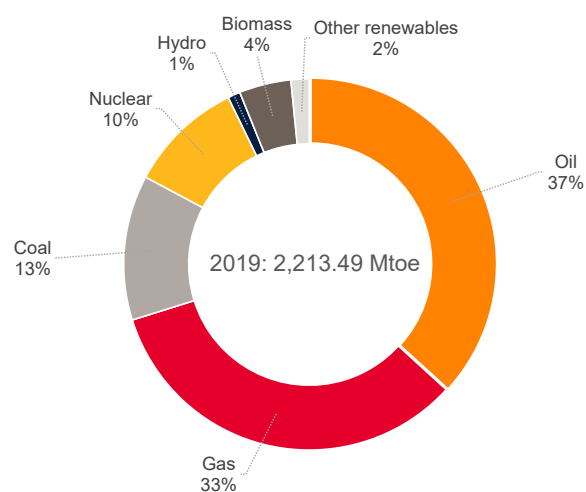
Primary energy demand and CO₂ emissions growth



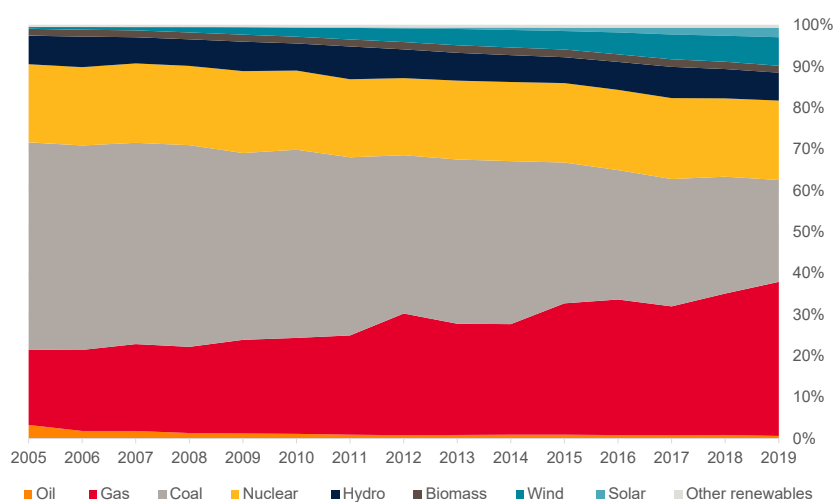
United States (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	2,217.4	2,191.3	2,152.3	2,190.3	2,216.4	2,193.1	2,168.9	2,161.0	2,235.1	2,213.5	100.0
Oil	806.0	784.4	775.5	777.6	777.1	793.4	788.4	794.6	811.6	807.9	36.5
Gas	555.9	568.6	594.7	606.4	627.4	646.4	652.7	643.7	710.7	732.9	33.1
Coal	502.6	479.1	424.5	432.1	431.7	374.1	341.5	330.7	317.0	277.6	12.5
Nuclear	218.6	214.1	208.8	214.2	216.5	216.4	218.9	218.6	219.2	219.8	9.9
Hydro	22.6	27.7	24.0	23.3	22.5	21.6	23.2	26.0	25.3	23.7	1.1
Biomass	89.3	91.5	95.6	102.7	105.5	102.5	102.0	101.4	102.3	99.4	4.5
Other renewables	8.5	10.9	13.1	16.0	18.0	19.7	24.1	28.2	31.5	34.8	1.6
Electricity balance of trade*	13.9	15.1	16.1	18.0	17.7	19.1	18.1	17.7	17.6	17.4	0.8
Total final consumption, by source	1,501.7	1,463.5	1,434.9	1,481.0	1,503.4	1,498.3	1,503.4	1,505.8	1,558.6	1,547.9	100.0
Oil	761.9	721.5	709.1	720.1	724.9	741.9	744.4	747.6	765.5	764.2	49.4
Gas	306.1	307.1	295.0	320.3	335.4	319.5	320.6	327.9	354.2	354.7	22.9
Coal	31.1	29.5	27.3	27.1	26.9	23.7	21.2	20.6	20.2	20.1	1.3
Electricity	325.8	325.0	320.5	324.0	325.9	325.2	327.5	321.5	328.9	320.0	20.7
Heat	8.8	8.9	8.8	8.3	8.1	8.0	8.9	8.0	8.5	9.0	0.6
Biomass	68.0	71.4	74.2	81.2	82.3	80.1	80.9	80.2	81.2	79.9	5.2
Electricity generation, by source	376.5	374.1	369.0	370.3	373.3	371.3	371.7	368.6	381.7	377.1	100.0
Oil	4.1	3.4	2.8	3.2	3.4	3.3	3.0	2.8	3.2	2.4	0.6
Gas	87.5	89.9	108.8	99.6	99.9	118.0	122.0	115.0	130.6	140.7	37.3
Coal	171.5	161.3	141.3	147.3	147.3	126.5	116.4	113.6	108.0	92.9	24.6
Nuclear	72.1	70.6	68.9	70.7	71.4	71.4	72.2	72.1	72.3	72.5	19.2
Hydro	24.6	29.6	25.7	24.9	24.2	23.3	25.1	28.0	27.2	25.4	6.7
Biomass	6.2	6.4	6.5	6.7	7.0	6.9	6.8	6.8	6.8	6.4	1.7
Wind	8.2	10.4	12.2	14.6	15.8	16.6	19.7	22.1	23.9	26.0	6.9
Solar	0.3	0.5	0.9	1.4	2.2	3.1	4.3	6.1	7.6	8.7	2.3
Other renewables	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.2	0.6
Total final consumption, by sector	1,501.7	1,463.5	1,434.9	1,481.0	1,503.4	1,498.3	1,503.4	1,505.8	1,558.6	1,547.9	100.0
Industry	274.2	270.1	272.9	271.3	271.2	269.6	272.4	267.7	273.0	268.0	17.3
Transport	585.0	568.0	560.8	578.6	579.0	601.0	608.0	611.7	618.6	617.0	39.9
Residential/Commercial	488.6	478.0	447.3	482.7	495.1	475.9	469.9	464.5	498.1	493.8	31.9
Oil final consumption, by sector	761.9	721.5	709.1	720.1	724.9	741.9	744.4	747.6	765.5	764.2	100.0
Industry	26.5	20.1	19.8	20.1	17.5	19.2	19.9	18.1	19.1	18.3	2.4
Transport	560.4	540.1	527.5	542.0	542.1	562.5	566.6	570.2	577.4	575.8	75.3
Residential/Commercial	35.8	29.2	24.0	26.0	24.2	26.4	26.0	24.1	25.7	26.5	3.5
Natural gas final consumption, by sector	306.1	307.1	295.0	320.3	335.4	319.5	320.6	327.9	354.2	354.7	100.0
Industry	109.9	111.4	117.1	115.5	120.6	121.0	125.0	124.1	131.0	131.1	37.0
Transport	0.7	0.7	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	0.4
Residential/Commercial	182.2	181.4	162.3	188.9	198.1	180.8	174.5	177.3	197.7	197.9	55.8
Refined products consumption	758.4	719.5	707.0	717.6	722.4	737.6	741.4	743.2	761.0	759.8	100.0
Gasoline	387.0	363.6	359.6	364.8	367.4	377.9	383.3	380.8	380.5	378.9	49.9
Diesel	182.9	180.5	176.7	176.9	183.7	179.5	176.5	179.0	187.8	185.6	24.4
Heating Oil	6.9	4.9	3.3	1.0	0.3	2.9	1.8	1.8	1.7	1.6	0.2
Aviation Jet	48.6	48.6	48.1	49.2	50.4	52.8	54.8	57.9	58.8	59.4	7.8
LPG	46.2	32.3	33.3	38.9	35.6	37.3	35.7	33.3	35.9	34.9	4.6
Imports	710.0	678.4	623.4	567.3	534.7	546.0	581.5	586.8	573.7	526.3	100.0
Oil	623.1	597.8	550.7	500.6	472.4	483.1	511.9	516.4	507.0	462.9	88.0
Gas	86.9	80.6	72.7	66.7	62.3	62.9	69.5	70.4	66.8	63.3	12.0
Gasoline	37.8	34.7	32.8	32.2	30.0	33.3	34.6	31.3	33.4	37.4	7.1
Diesel	8.8	6.8	6.9	8.9	10.6	11.2	8.4	8.8	10.1	11.4	2.2
Heating Oil	21.3	19.3	16.2	13.6	11.2	11.7	11.6	11.3	12.6	8.8	1.7
Aviation Jet	3.9	3.1	3.1	4.4	4.9	6.9	7.6	8.3	6.6	8.7	1.7
LPG	1.4	3.5	3.7	4.2	3.7	4.3	5.0	5.6	6.0	6.3	1.2
Exports	141.1	172.3	182.8	195.2	229.5	257.6	290.8	362.7	430.1	493.1	100.0
Oil	114.9	137.7	145.7	159.2	194.8	216.9	238.2	288.3	345.3	383.6	77.8
Gas	26.1	34.6	37.1	36.0	34.7	40.7	52.7	74.4	84.8	109.4	22.2
Gasoline	15.5	23.7	23.3	23.2	25.3	28.3	35.3	38.1	45.2	43.6	8.8
Diesel	33.2	43.3	50.1	56.3	54.9	58.5	58.7	68.5	64.5	66.1	13.4
Heating Oil	22.6	23.1	20.7	19.4	20.1	17.5	16.3	16.8	17.2	12.3	2.5
Aviation Jet	4.8	5.3	6.6	7.8	8.1	8.3	8.7	9.2	11.1	11.2	2.3
LPG	0.0	0.0	0.0	0.0	17.0	24.4	31.0	35.6	39.4	46.5	9.4
CO₂ Emissions (Million tons CO₂)	5,445.6	5,237.7	5,048.6	5,152.3	5,193.4	5,046.9	4,954.2	4,890.7	5,041.5	4,920.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	333.2	315.5	297.5	298.1	293.3	277.0	267.7	258.6	259.0	247.0	-
Final energy intensity (toe/million \$15ppp)	83.6	80.4	76.5	78.1	77.0	74.9	73.9	71.9	72.3	70.0	-
Total energy intensity (toe/million \$15ppp)	135.7	132.0	126.8	126.7	125.2	120.4	117.2	114.2	114.8	111.1	-

*Heat is included

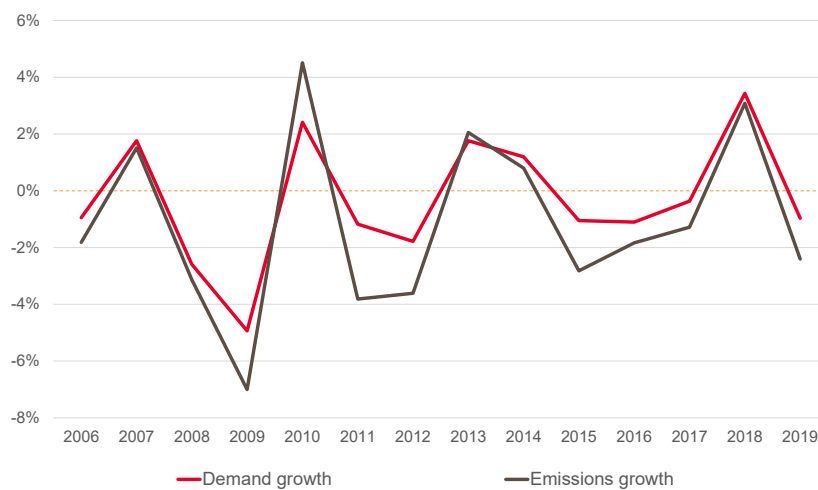
Primary energy demand mix



Electricity generation by source



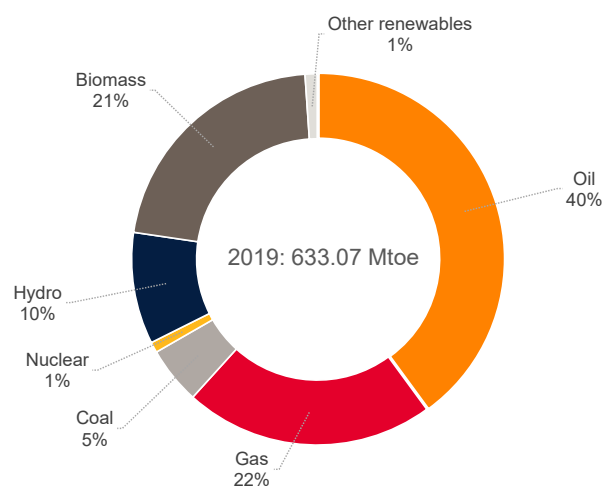
Primary energy demand and CO₂ emissions growth



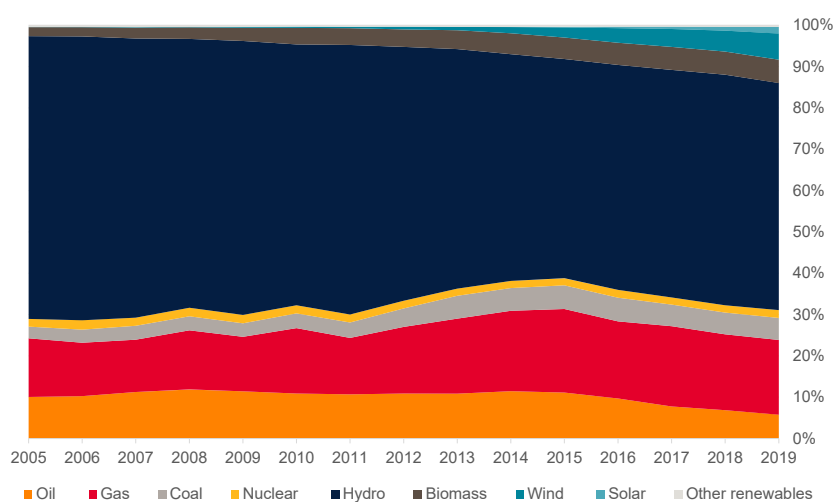
South and Central America (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	609.2	617.7	640.8	659.2	666.0	661.5	653.3	649.9	642.0	633.1	100.0
Oil	270.2	271.0	283.4	287.0	290.5	280.0	271.0	265.0	254.7	245.8	39.7
Gas	123.5	126.5	133.4	139.8	144.7	144.7	140.7	141.0	138.6	133.9	21.6
Coal	25.6	28.0	28.2	31.9	32.8	33.8	34.1	32.3	31.8	31.6	5.0
Nuclear	5.7	5.7	5.8	5.6	5.5	5.7	6.3	5.7	5.9	6.4	0.9
Hydro	59.7	64.1	62.7	61.5	58.1	57.9	59.6	60.9	62.0	61.4	9.7
Biomass	120.9	118.6	122.7	128.4	128.6	132.4	133.0	135.0	137.7	140.2	21.5
Other renewables	0.3	0.4	0.7	0.9	1.6	2.9	4.2	5.4	6.7	8.9	1.0
Electricity balance of trade*	3.3	3.5	3.8	4.1	4.1	4.2	4.4	4.5	4.6	5.0	0.7
Total final consumption, by source	463.3	472.0	485.2	493.0	498.3	493.8	492.0	492.4	486.3	487.0	100.0
Oil	214.6	221.9	233.8	233.6	238.9	230.0	230.1	230.1	221.9	220.8	45.6
Gas	65.6	61.8	61.3	61.8	61.1	61.6	59.1	57.4	58.3	58.8	12.0
Coal	15.5	17.8	16.0	16.4	16.7	16.4	16.5	16.4	16.9	16.2	3.5
Electricity	76.0	79.3	82.4	86.0	86.5	88.0	88.0	88.7	88.9	89.1	18.3
Heat	0.4	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	0.2
Biomass	91.2	90.7	91.3	94.5	94.5	97.1	97.5	99.0	99.3	100.9	20.4
Electricity generation, by source	94.5	98.2	102.2	106.2	105.9	109.3	109.5	110.6	111.2	111.7	100.0
Oil	10.3	10.5	11.1	11.5	12.1	12.1	10.6	8.6	7.6	6.4	6.8
Gas	14.9	13.4	16.5	19.3	20.6	22.1	20.5	21.5	20.4	20.2	18.4
Coal	3.4	3.6	4.5	5.9	5.8	6.3	6.3	5.8	5.9	5.9	5.3
Nuclear	1.9	1.9	1.9	1.9	1.8	1.9	2.1	1.9	2.0	2.1	1.8
Hydro	59.7	64.1	62.8	61.6	58.1	58.0	59.6	60.9	62.1	61.4	55.8
Biomass	3.8	4.0	4.3	4.9	5.4	5.7	5.9	6.1	6.2	6.3	5.6
Wind	0.3	0.4	0.7	0.8	1.6	2.7	3.9	4.8	5.6	7.1	5.1
Solar	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.6	1.1	1.8	0.9
Other renewables	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total final consumption, by sector	463.3	472.0	485.2	493.0	498.3	493.8	492.0	492.4	486.3	487.0	100.0
Industry	163.0	164.3	163.9	165.1	162.7	157.0	157.1	155.0	151.5	150.8	31.1
Transport	145.1	152.7	161.8	163.5	169.9	170.8	170.2	172.2	171.1	171.6	35.2
Residential/Commercial	100.0	101.3	104.4	108.4	108.9	110.6	112.0	111.3	111.9	112.5	23.0
Oil final consumption, by sector	214.6	221.9	233.8	233.6	238.9	230.0	230.1	230.1	221.9	220.8	100.0
Industry	37.6	37.3	38.0	37.6	37.2	32.9	33.2	31.2	29.9	29.6	13.5
Transport	123.9	132.4	141.9	141.4	146.1	143.7	144.9	146.6	142.2	142.2	64.1
Residential/Commercial	17.5	17.4	17.3	17.8	18.0	17.5	18.1	17.9	18.1	17.3	8.2
Natural gas final consumption, by sector	65.6	61.8	61.3	61.8	61.1	61.6	59.1	57.4	58.3	58.8	100.0
Industry	34.0	30.8	30.0	29.5	29.0	29.1	27.1	26.2	26.5	26.1	45.5
Transport	5.3	5.3	5.6	5.7	5.8	5.9	5.7	5.6	5.7	6.0	9.8
Residential/Commercial	12.4	12.7	13.3	13.8	13.6	13.7	14.1	13.2	13.2	13.6	22.7
Refined products consumption	213.5	221.1	233.2	233.2	238.4	229.3	227.7	227.9	219.8	218.8	100.0
Gasoline	54.0	57.4	64.5	62.5	66.2	65.6	66.7	66.9	62.8	62.7	28.6
Diesel	85.4	88.9	92.0	95.2	97.3	94.6	93.5	93.8	93.3	93.6	42.4
Heating Oil	13.2	13.1	13.0	12.5	10.9	8.7	7.9	7.3	6.8	6.2	3.1
Aviation Jet	4.7	5.0	5.2	5.3	5.3	5.6	5.2	5.2	5.1	5.0	2.3
LPG	20.5	20.9	21.9	22.9	23.2	21.4	22.1	21.6	21.5	20.3	9.8
Imports	151.3	160.3	167.0	178.6	176.5	171.4	165.1	167.4	163.9	160.4	100.0
Oil	132.1	139.8	142.4	148.7	145.6	141.7	141.7	144.2	140.9	141.5	86.0
Gas	19.3	20.5	24.6	30.0	30.9	29.6	23.4	23.1	22.9	18.9	14.0
Gasoline	9.7	12.1	14.2	12.9	13.0	14.3	16.0	18.3	17.1	19.5	10.5
Diesel	32.7	32.6	34.6	40.1	39.9	37.1	41.3	43.0	41.9	40.1	25.6
Heating Oil	13.9	14.8	13.7	12.5	12.6	12.4	12.9	12.7	12.3	11.3	7.5
Aviation Jet	3.9	4.0	4.3	4.3	4.3	4.8	4.3	4.6	4.6	4.2	2.8
LPG	6.7	6.8	6.4	7.3	7.7	7.1	7.7	8.0	8.5	7.6	5.2
Exports	274.1	289.6	280.1	279.3	285.0	293.9	278.4	275.8	249.6	240.9	100.0
Oil	243.1	256.0	244.4	240.8	247.8	259.4	246.3	244.3	217.8	208.1	87.3
Gas	31.0	33.6	35.6	38.5	37.2	34.5	32.1	31.5	31.8	32.9	12.7
Gasoline	7.2	7.8	6.9	7.0	6.3	8.1	7.5	7.5	6.6	11.2	2.6
Diesel	7.6	12.0	7.0	5.1	5.5	4.4	5.2	4.6	5.3	7.1	2.1
Heating Oil	25.8	29.9	29.8	28.4	28.0	26.4	28.5	27.6	26.4	23.9	10.6
Aviation Jet	5.1	6.0	5.2	4.6	5.0	4.6	3.2	2.5	2.2	2.5	0.9
LPG	5.1	5.6	5.1	5.0	4.6	2.5	2.2	2.2	2.2	2.5	0.9
CO₂ Emissions (Million tons CO₂)	1,107.3	1,127.1	1,190.9	1,221.3	1,255.7	1,237.2	1,208.9	1,177.5	1,134.8	1,102.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	171.0	165.9	170.8	169.5	172.8	171.6	171.2	165.4	158.6	154.6	-
Final energy intensity (toe/million \$15ppp)	71.5	69.5	69.6	68.4	68.6	68.5	69.7	69.2	68.0	68.3	-
Total energy intensity (toe/million \$15ppp)	94.1	90.9	91.9	91.5	91.7	91.7	92.5	91.3	89.8	88.8	-

*Heat is included

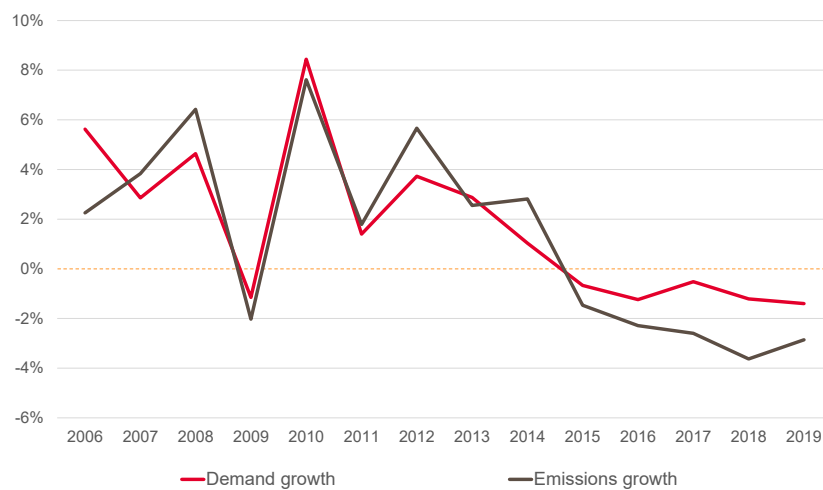
Primary energy demand mix



Electricity generation by source



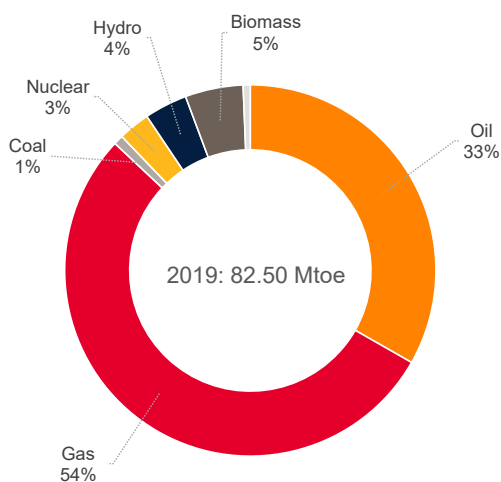
Primary energy demand and CO₂ emissions growth



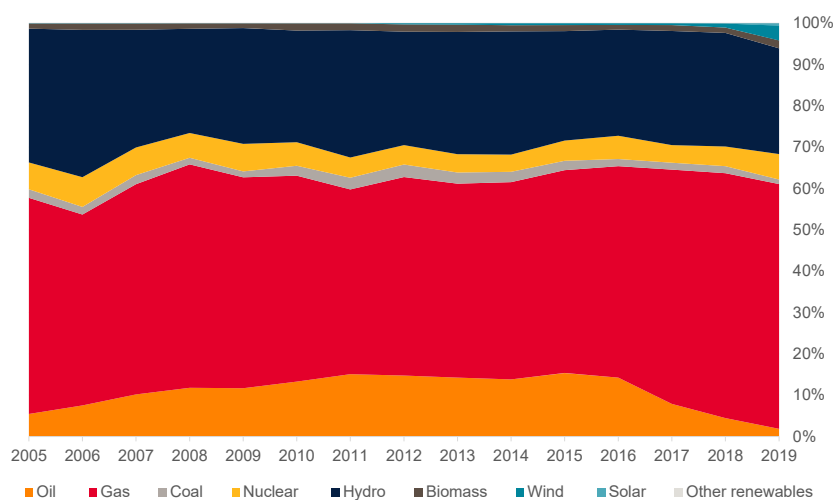
Argentina (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	78.7	80.5	81.0	83.1	83.5	85.6	86.3	85.3	83.6	82.5	100.0
Oil	31.4	29.9	29.2	30.9	30.8	32.1	31.2	29.5	27.2	27.0	32.8
Gas	38.0	40.4	41.7	41.9	42.2	42.9	44.6	45.1	45.5	43.7	53.0
Coal	1.0	1.2	1.2	1.2	1.1	1.0	0.8	0.8	0.9	0.7	0.8
Nuclear	1.9	1.7	1.7	1.6	1.5	1.9	2.2	1.6	1.8	2.2	2.7
Hydro	2.9	3.4	3.2	3.5	3.5	3.3	3.2	3.4	3.4	3.0	3.7
Biomass	2.8	3.1	3.3	3.3	3.5	3.5	3.4	3.9	3.8	4.1	5.0
Other renewables	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.5	0.6
Electricity balance of trade*	0.7	0.8	0.7	0.7	0.8	0.8	0.8	0.9	0.8	1.2	1.4
Total final consumption, by source	55.9	57.6	58.6	59.1	59.9	61.2	61.2	60.4	57.8	58.7	100.0
Oil	24.6	24.7	25.5	25.0	25.3	25.8	25.6	26.0	23.1	23.9	40.7
Gas	19.0	20.0	19.9	20.9	20.6	21.0	21.1	19.9	20.0	20.5	34.9
Coal	0.7	0.8	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.9
Electricity	9.7	10.0	10.3	10.4	10.9	11.4	11.3	11.1	11.1	10.7	18.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	1.9	2.2	2.4	2.3	2.6	2.6	2.7	3.0	3.1	3.0	5.2
Electricity generation, by source	10.8	11.2	11.7	12.0	11.9	12.5	12.7	12.5	12.6	12.0	100.0
Oil	1.4	1.7	1.7	1.7	1.6	1.9	1.8	1.0	0.6	0.2	1.9
Gas	5.4	5.0	5.6	5.6	5.7	6.1	6.5	7.1	7.5	7.1	59.2
Coal	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	1.1
Nuclear	0.6	0.5	0.5	0.5	0.5	0.6	0.7	0.5	0.6	0.7	6.2
Hydro	2.9	3.4	3.2	3.5	3.6	3.3	3.3	3.5	3.5	3.1	25.6
Biomass	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	1.9
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.4	3.6
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
Other renewables	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	55.9	57.6	58.6	59.1	59.9	61.2	61.2	60.4	57.8	58.7	100.0
Industry	16.6	16.8	16.3	16.2	17.0	17.0	16.3	16.2	16.7	16.9	28.8
Transport	14.8	17.0	17.0	16.2	16.1	16.8	16.8	17.1	15.7	16.0	27.2
Residential/Commercial	16.4	16.2	17.2	17.9	18.1	18.5	19.2	17.8	17.6	17.6	30.0
Oil final consumption, by sector	24.6	24.7	25.5	25.0	25.3	25.8	25.6	26.0	23.1	23.9	100.0
Industry	4.2	3.8	4.2	3.7	4.1	3.9	3.7	3.4	3.3	3.6	14.9
Transport	11.9	13.8	13.7	12.8	12.5	13.1	13.1	13.5	12.3	12.5	52.5
Residential/Commercial	2.0	1.4	1.5	1.6	1.8	1.8	1.7	1.6	1.5	1.5	6.4
Natural gas final consumption, by sector	19.0	20.0	19.9	20.9	20.6	21.0	21.1	19.9	20.0	20.5	100.0
Industry	6.5	6.9	6.3	6.9	7.0	7.2	6.9	7.0	7.3	7.5	36.5
Transport	2.2	2.3	2.3	2.3	2.4	2.5	2.4	2.1	2.0	2.1	10.0
Residential/Commercial	8.7	9.0	9.5	9.9	9.6	9.7	10.2	9.1	9.0	9.3	45.1
Refined products consumption	24.6	24.7	25.5	25.0	25.3	25.8	25.6	26.0	23.1	23.9	100.0
Gasoline	4.8	5.3	5.7	5.9	5.8	6.0	6.1	6.5	5.9	5.7	24.1
Diesel	10.1	10.9	10.3	9.6	10.0	10.3	10.2	10.4	9.2	9.5	39.9
Heating Oil	0.5	0.2	0.2	0.1	0.4	0.4	0.3	0.1	0.2	0.5	2.1
Aviation Jet	0.4	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	2.5
LPG	1.8	1.3	1.9	2.0	1.9	1.8	1.9	1.8	1.7	1.6	6.8
Imports	7.5	10.8	12.5	16.3	16.8	16.0	16.0	15.8	14.5	9.8	100.0
Oil	4.5	5.1	4.9	6.7	7.1	6.5	7.2	6.6	6.3	5.3	54.3
Gas	3.0	5.7	7.6	9.6	9.7	9.4	8.7	9.3	8.2	4.5	45.7
Gasoline	0.1	0.1	0.0	0.3	0.3	0.0	0.2	0.3	0.5	0.4	4.1
Diesel	1.3	1.8	1.2	3.8	3.2	3.3	3.6	3.1	2.7	2.7	27.4
Heating Oil	0.7	0.7	0.7	0.3	0.5	0.0	0.0	0.0	0.2	0.0	0.0
Aviation Jet	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	2.3
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	6.6	5.8	5.7	3.5	4.1	3.6	3.9	3.4	6.3	7.7	100.0
Oil	6.2	5.7	5.6	3.5	4.0	3.6	3.9	3.4	5.7	7.3	94.4
Gas	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.4	5.6
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.2	2.3
Heating Oil	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.3	0.7	0.7	9.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	1.3	1.3	1.0	0.8	1.0	0.9	1.0	1.0	1.2	1.5	19.2
CO₂ Emissions (Million tons CO₂)	174.5	181.8	188.7	183.9	187.4	193.2	193.6	186.5	173.0	170.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	211.9	208.2	218.3	207.8	217.1	218.0	222.5	208.3	198.1	199.9	-
Final energy intensity (toe/million \$15ppp)	62.3	60.8	62.1	60.6	63.8	63.6	64.6	61.6	61.4	63.6	-
Total energy intensity (toe/million \$15ppp)	95.5	92.2	93.7	93.9	96.8	96.5	99.2	95.3	95.8	96.6	-

*Heat is included

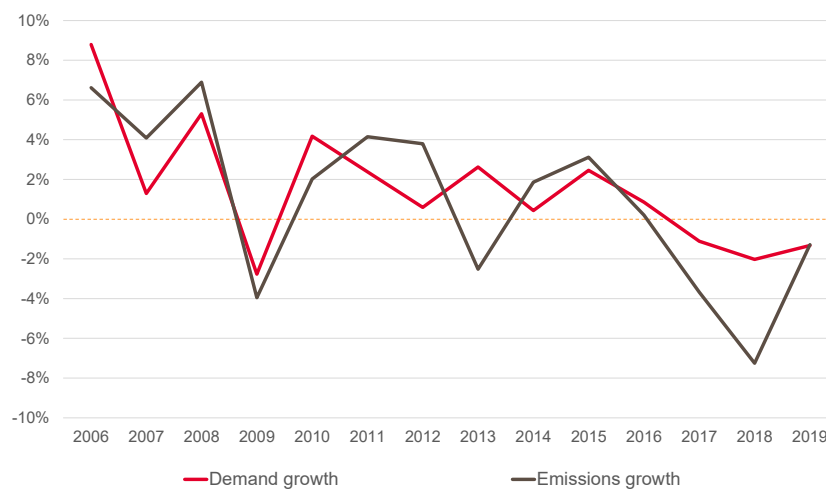
Primary energy demand mix



Electricity generation by source



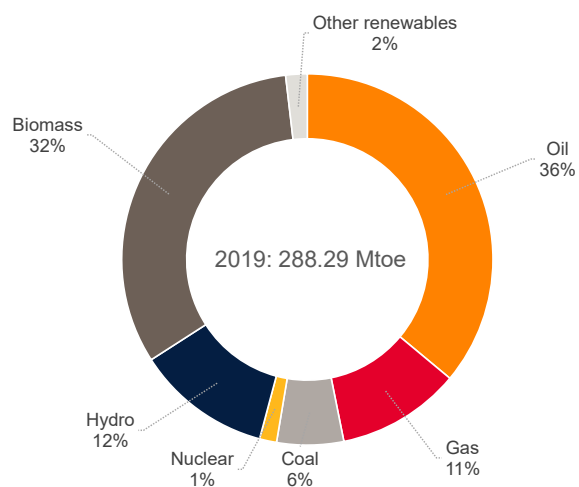
Primary energy demand and CO₂ emissions growth



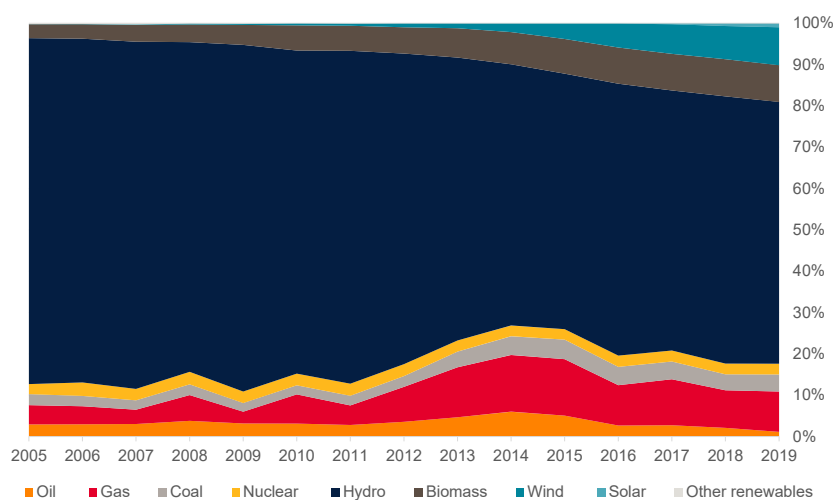
Brazil (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	267.1	271.0	281.4	293.8	303.0	297.1	286.2	291.3	287.0	288.3	100.0
Oil	104.7	108.9	115.2	120.5	124.6	115.8	109.6	111.2	103.8	102.5	35.6
Gas	23.7	23.5	28.0	33.0	36.4	36.2	30.7	32.5	30.8	30.7	10.6
Coal	14.5	15.4	15.3	16.5	17.5	17.7	15.9	16.8	16.6	16.5	5.7
Nuclear	3.8	4.1	4.2	4.0	4.0	3.8	4.1	4.1	4.1	4.2	1.5
Hydro	34.7	36.8	35.7	33.6	32.1	30.9	32.8	31.9	33.5	33.5	11.6
Biomass	82.2	78.4	78.5	81.5	83.7	87.2	85.8	87.0	89.8	91.6	31.8
Other renewables	0.2	0.2	0.4	0.6	1.1	1.9	2.9	3.7	4.5	5.3	1.8
Electricity balance of trade*	3.4	3.6	4.0	4.1	3.6	3.7	4.4	4.1	4.0	4.0	1.4
Total final consumption, by source	215.4	222.6	228.7	232.0	236.4	231.5	227.8	231.6	226.9	227.5	100.0
Oil	93.9	100.2	105.8	107.8	109.9	103.0	101.3	102.5	96.4	96.3	42.4
Gas	12.7	12.8	12.6	12.4	12.2	12.3	12.0	11.6	12.0	11.3	5.0
Coal	11.2	12.4	11.9	11.5	11.7	11.7	10.3	11.6	11.8	11.2	4.9
Electricity	37.7	39.3	40.6	41.8	43.0	42.2	42.2	42.8	43.3	43.9	19.3
Heat	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	0.4
Biomass	59.6	57.5	57.1	57.9	59.0	61.6	61.3	62.3	62.4	63.7	28.0
Electricity generation, by source	44.4	45.7	47.5	49.1	50.8	50.0	49.8	50.7	51.7	52.9	100.0
Oil	1.4	1.3	1.7	2.3	3.0	2.5	1.3	1.4	1.1	0.6	1.1
Gas	3.1	2.2	4.0	5.9	7.0	6.8	4.9	5.6	4.7	5.2	9.7
Coal	1.0	1.1	1.2	1.9	2.3	2.4	2.2	2.2	2.0	2.2	4.1
Nuclear	1.2	1.3	1.4	1.3	1.3	1.3	1.4	1.4	1.3	1.4	2.6
Hydro	34.7	36.8	35.7	33.6	32.1	30.9	32.8	31.9	33.5	33.5	63.3
Biomass	2.7	2.8	3.0	3.5	4.0	4.2	4.4	4.5	4.6	4.7	8.9
Wind	0.2	0.2	0.4	0.6	1.1	1.9	2.9	3.6	4.2	4.9	9.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	215.4	222.6	228.7	232.0	236.4	231.5	227.8	231.6	226.9	227.5	100.0
Industry	83.9	87.2	87.1	86.3	85.2	82.6	82.2	83.3	79.0	78.7	34.6
Transport	70.2	74.4	79.1	83.1	86.1	84.0	82.6	84.7	84.7	85.3	37.5
Residential/Commercial	34.4	34.6	35.7	36.2	38.1	38.3	38.1	38.3	38.8	39.3	17.3
Oil final consumption, by sector	93.9	100.2	105.8	107.8	109.9	103.0	101.3	102.5	96.4	96.3	100.0
Industry	12.0	12.7	12.5	12.7	12.8	11.6	11.1	10.9	9.5	9.5	9.9
Transport	53.7	59.2	64.9	67.0	68.7	63.6	63.8	65.4	62.2	62.4	64.8
Residential/Commercial	7.1	7.2	7.1	7.2	7.3	7.2	7.3	7.3	7.2	6.7	7.0
Natural gas final consumption, by sector	12.7	12.8	12.6	12.4	12.2	12.3	12.0	11.6	12.0	11.3	100.0
Industry	9.0	9.7	9.6	9.5	9.4	9.7	9.2	8.8	9.0	8.4	73.9
Transport	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.7	1.9	2.0	17.3
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	3.9
Refined products consumption	93.9	100.2	105.8	107.8	109.9	103.0	101.3	102.5	96.4	96.3	100.0
Gasoline	17.5	20.8	24.4	24.4	25.7	23.3	24.2	24.8	21.6	21.8	22.7
Diesel	38.4	40.4	42.7	45.0	45.6	43.4	42.1	42.5	41.8	41.9	43.5
Heating Oil	4.3	3.9	3.6	3.7	3.8	3.0	2.9	2.6	2.0	1.8	1.8
Aviation Jet	3.2	3.6	3.8	3.6	3.7	3.6	3.3	3.3	3.4	3.3	3.4
LPG	7.7	8.0	8.0	8.2	8.3	8.1	8.2	8.3	8.2	7.6	7.9
Imports	50.2	50.3	53.4	58.4	59.5	52.7	40.6	44.9	44.0	44.6	100.0
Oil	39.3	41.3	42.1	43.8	42.9	36.9	30.6	35.7	35.0	36.2	81.1
Gas	10.8	9.0	11.3	14.5	16.5	15.8	10.0	9.2	9.1	8.4	18.9
Gasoline	0.4	1.7	2.9	1.7	1.6	2.3	2.9	3.5	2.5	4.1	9.1
Diesel	7.6	7.9	8.2	8.5	9.6	5.9	7.2	11.0	9.9	8.9	19.9
Heating Oil	0.2	0.7	0.2	0.1	0.4	0.3	0.1	0.1	0.3	0.0	0.0
Aviation Jet	1.6	1.5	1.5	1.5	1.2	1.1	0.8	0.5	0.7	0.9	2.0
LPG	1.9	2.1	1.7	2.1	2.3	2.0	2.1	2.0	2.1	1.7	3.9
Exports	39.2	37.8	33.8	27.6	33.5	44.1	49.5	59.8	64.3	75.8	100.0
Oil	39.2	37.8	33.8	27.6	33.5	44.1	49.5	59.8	64.3	75.8	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.6	0.2	0.1	0.3	0.3	0.5	0.6	0.4	1.1	2.1	2.8
Diesel	0.6	0.5	0.3	0.3	0.3	0.1	0.4	0.4	0.8	1.5	2.0
Heating Oil	4.7	5.1	5.3	5.7	5.1	4.4	3.6	3.8	5.3	6.1	8.0
Aviation Jet	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.6	0.8
LPG	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	377.0	397.0	429.8	461.3	487.5	463.0	429.2	437.3	413.2	410.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	123.4	124.9	132.7	138.3	145.4	143.2	137.3	138.4	129.1	126.7	-
Final energy intensity (toe/million \$15ppp)	64.9	64.9	65.6	64.8	65.8	66.9	68.2	68.6	66.5	65.9	-
Total energy intensity (toe/million \$15ppp)	87.4	85.3	86.9	88.1	90.4	91.9	91.5	92.2	89.7	89.0	-

*Heat is included

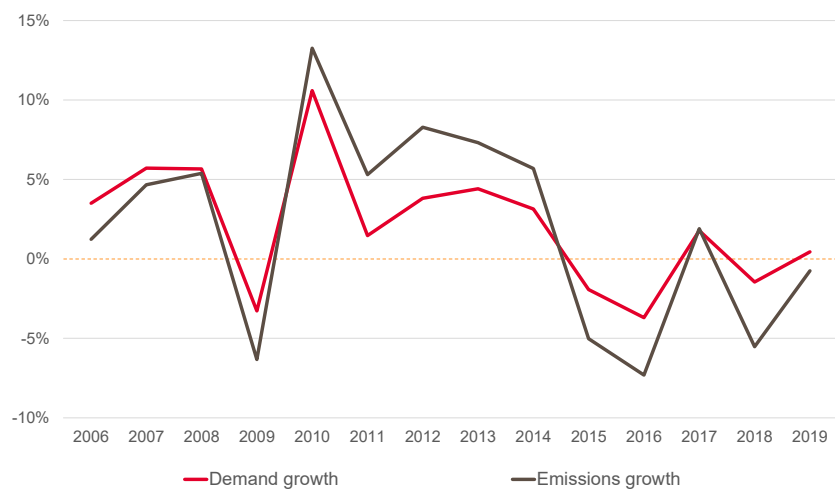
Primary energy demand mix



Electricity generation by source



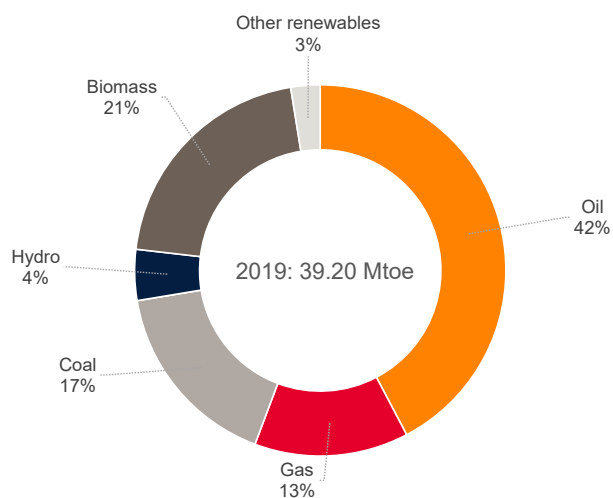
Primary energy demand and CO₂ emissions growth



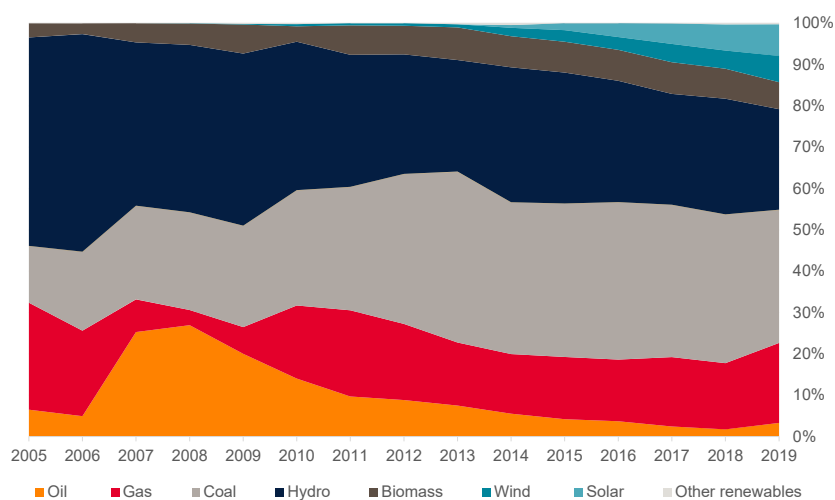
Chile (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	30.9	33.6	37.2	38.5	34.7	35.5	37.8	38.4	38.9	39.2	100.0
Oil	15.0	15.8	15.6	15.8	15.4	15.3	16.1	16.0	16.3	16.5	42.0
Gas	4.5	4.6	4.3	4.1	3.6	4.0	4.3	4.3	4.7	5.2	13.4
Coal	4.5	5.4	6.2	6.5	6.1	6.6	7.1	7.3	7.1	6.5	16.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.9	1.8	1.7	1.7	2.0	2.1	2.0	1.8	2.0	1.7	4.4
Biomass	4.9	5.9	9.4	10.3	7.4	7.3	7.8	8.1	7.9	8.0	20.5
Other renewables	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.6	0.7	1.0	2.5
Electricity balance of trade*	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.6
Total final consumption, by source	24.0	25.3	25.2	26.7	24.9	25.0	26.4	26.7	27.2	27.6	100.0
Oil	12.1	12.7	12.6	13.5	13.6	13.8	14.8	15.2	15.6	15.7	57.0
Gas	2.4	2.0	1.4	1.4	1.3	1.5	1.7	1.7	1.8	1.8	6.6
Coal	0.5	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	1.4
Electricity	4.7	5.0	5.4	5.6	5.8	5.8	6.0	6.0	6.1	6.2	22.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Biomass	4.3	5.0	5.4	5.8	3.9	3.6	3.5	3.3	3.3	3.4	12.3
Electricity generation, by source	5.2	5.7	6.0	6.3	6.1	6.5	6.8	6.8	7.0	7.1	100.0
Oil	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.1	0.2	3.3
Gas	0.9	1.2	1.1	1.0	0.9	1.0	1.0	1.1	1.1	1.4	19.4
Coal	1.5	1.7	2.2	2.6	2.2	2.4	2.6	2.5	2.5	2.3	32.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.9	1.8	1.7	1.7	2.0	2.1	2.0	1.8	2.0	1.7	24.3
Biomass	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.5
Wind	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.5	6.3
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	7.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total final consumption, by sector	24.0	25.3	25.2	26.7	24.9	25.0	26.4	26.7	27.2	27.6	100.0
Industry	8.8	9.8	9.3	10.0	10.5	10.5	10.7	10.0	10.2	10.4	37.7
Transport	7.1	7.3	7.5	8.2	8.1	8.5	8.9	9.2	9.4	9.4	34.1
Residential/Commercial	6.7	7.2	7.4	7.6	5.5	5.5	6.0	6.3	6.4	6.6	23.8
Oil final consumption, by sector	12.1	12.7	12.6	13.5	13.6	13.8	14.8	15.2	15.6	15.7	100.0
Industry	3.0	3.2	2.9	3.3	3.7	3.9	3.8	3.6	3.7	3.8	24.0
Transport	7.1	7.2	7.4	8.2	8.0	8.4	8.8	9.1	9.3	9.3	59.2
Residential/Commercial	1.4	1.7	1.5	1.4	1.2	1.2	1.6	1.8	1.8	1.9	11.8
Natural gas final consumption, by sector	2.4	2.0	1.4	1.4	1.3	1.5	1.7	1.7	1.8	1.8	100.0
Industry	1.1	1.0	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.9	47.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Residential/Commercial	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	37.9
Refined products consumption	12.1	12.7	12.6	13.5	13.6	13.8	14.8	15.2	15.6	15.7	100.0
Gasoline	2.9	2.7	2.8	3.1	3.3	3.3	3.5	3.5	3.6	3.7	23.2
Diesel	5.9	6.7	6.5	7.1	6.8	7.5	8.0	8.2	8.6	8.7	55.4
Heating Oil	1.1	1.1	1.0	1.0	0.9	0.7	0.7	0.7	0.7	0.5	3.3
Aviation Jet	0.4	0.3	0.3	0.3	0.4	0.6	0.5	0.5	0.4	0.4	2.7
LPG	1.3	1.3	1.4	1.4	1.5	1.2	1.4	1.5	1.5	1.5	9.7
Imports	19.0	19.9	19.9	20.6	19.3	19.4	20.7	20.6	20.9	21.4	100.0
Oil	16.0	16.6	16.6	17.3	16.4	16.3	17.1	17.1	17.0	17.1	79.9
Gas	3.0	3.3	3.3	3.3	2.9	3.1	3.7	3.5	3.9	4.3	20.1
Gasoline	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.3	1.5
Diesel	4.7	4.6	5.0	5.1	5.1	5.4	5.8	5.4	5.4	5.7	26.8
Heating Oil	0.4	0.6	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.3	0.2	0.5	0.5	0.4	0.5	0.6	0.7	0.7	0.3	1.2
LPG	0.9	0.9	0.9	1.2	1.1	0.9	1.2	1.2	1.2	1.3	5.9
Exports	0.6	0.6	0.9	0.9	0.6	0.5	0.7	0.7	0.4	0.4	100.0
Oil	0.6	0.6	0.9	0.9	0.6	0.5	0.4	0.5	0.4	0.4	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.0
Gasoline	0.2	0.1	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.1	16.4
Diesel	0.3	0.3	0.4	0.4	0.4	0.1	0.1	0.0	0.0	0.1	15.7
Heating Oil	0.0	0.1	0.1	0.2	0.1	0.3	0.3	0.3	0.1	0.0	9.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	11.7
CO₂ Emissions (Million tons CO₂)	70.3	76.3	78.7	82.7	76.7	81.5	86.1	86.9	87.1	86.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	208.6	213.5	209.1	211.2	192.4	199.8	208.5	207.4	199.9	196.2	-
Final energy intensity (toe/million \$15ppp)	68.1	68.8	65.0	66.7	60.8	60.7	62.5	62.3	61.1	61.3	-
Total energy intensity (toe/million \$15ppp)	91.6	94.0	98.8	98.3	87.2	87.1	91.6	91.6	89.4	89.0	-

*Heat is included

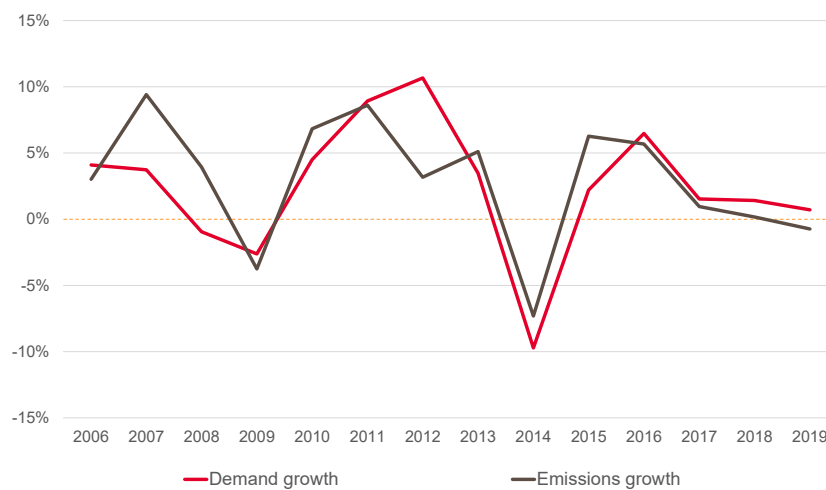
Primary energy demand mix



Electricity generation by source



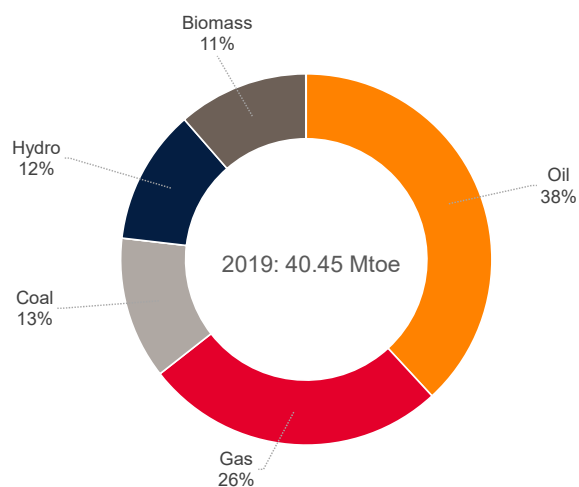
Primary energy demand and CO₂ emissions growth



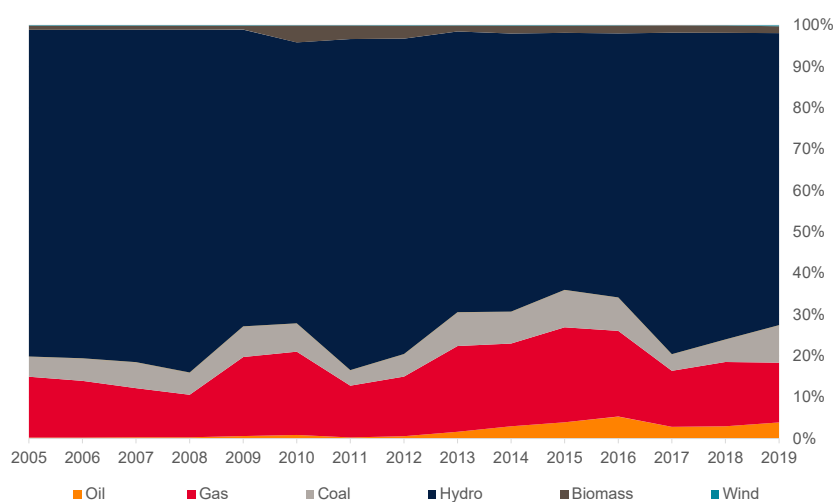
Colombia (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	31.2	31.3	31.5	38.7	38.8	38.7	40.8	38.4	38.9	40.5	100.0
Oil	12.6	12.6	13.0	14.5	14.1	14.1	15.1	14.4	15.0	15.4	38.1
Gas	8.2	7.6	7.9	9.8	10.3	10.1	9.6	9.8	10.2	10.6	26.3
Coal	3.2	3.5	2.9	4.7	4.8	5.1	6.7	4.1	3.5	5.0	12.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.5	4.2	4.1	4.3	4.1	4.2	4.2	5.3	5.2	4.8	11.7
Biomass	3.8	3.5	3.7	5.5	5.6	5.4	5.2	4.8	4.9	4.6	11.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by source	22.4	25.1	24.7	28.4	29.6	29.0	31.4	29.6	30.3	30.9	100.0
Oil	10.1	11.7	12.1	12.0	12.8	12.8	13.3	13.2	13.9	14.2	45.9
Gas	3.6	3.7	3.8	3.7	3.9	3.8	4.1	4.1	4.0	4.6	15.0
Coal	1.6	2.6	1.7	2.7	2.7	2.3	4.1	2.7	2.7	2.8	9.2
Electricity	3.9	4.2	4.2	4.8	5.0	5.1	5.2	5.3	5.3	5.0	16.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.2	3.0	3.0	5.2	5.2	5.0	4.8	4.4	4.5	4.2	13.7
Electricity generation, by source	5.1	5.2	5.4	6.4	6.1	6.7	6.6	6.8	7.0	6.7	100.0
Oil	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.2	0.2	0.3	3.9
Gas	1.0	0.7	0.8	1.3	1.2	1.5	1.4	0.9	1.1	1.0	14.4
Coal	0.4	0.2	0.3	0.5	0.5	0.6	0.5	0.3	0.4	0.6	9.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.5	4.2	4.1	4.3	4.1	4.2	4.2	5.3	5.2	4.8	70.7
Biomass	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	22.4	25.1	24.7	28.4	29.6	29.0	31.4	29.6	30.3	30.9	100.0
Industry	6.0	7.0	6.0	7.0	7.2	6.8	9.1	8.0	8.1	8.2	26.6
Transport	7.4	9.0	9.4	9.2	9.5	10.3	10.7	10.6	11.0	11.5	37.1
Residential/Commercial	6.4	6.5	6.7	8.3	8.5	8.2	8.2	8.0	8.2	8.3	26.7
Oil final consumption, by sector	10.1	11.7	12.1	12.0	12.8	12.8	13.3	13.2	13.9	14.2	100.0
Industry	0.6	0.3	0.4	0.2	0.2	0.2	0.5	0.6	0.7	0.7	5.0
Transport	6.8	8.4	8.9	8.5	8.9	9.6	10.1	10.1	10.5	10.9	77.1
Residential/Commercial	0.8	0.8	0.7	0.5	0.5	0.5	0.5	0.4	0.6	0.6	4.1
Natural gas final consumption, by sector	3.6	3.7	3.8	3.7	3.9	3.8	4.1	4.1	4.0	4.6	100.0
Industry	1.9	2.0	2.0	1.2	1.2	1.1	1.5	1.5	1.4	1.6	35.3
Transport	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.4	0.5	10.4
Residential/Commercial	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.7	36.2
Refined products consumption	9.8	11.7	12.1	12.0	12.8	12.8	13.3	13.2	13.9	14.2	100.0
Gasoline	2.9	3.6	3.7	3.9	4.2	4.7	5.2	5.3	5.5	5.7	40.5
Diesel	4.9	6.2	6.5	6.9	7.1	6.6	6.6	6.2	6.9	7.1	50.4
Heating Oil	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.8
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.7	0.7	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.6	4.0
Imports	2.5	2.7	3.2	4.2	4.5	2.8	4.9	2.8	2.2	3.1	100.0
Oil	2.5	2.7	3.2	4.2	4.5	2.8	4.9	2.8	1.9	2.8	92.1
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	7.9
Gasoline	0.0	0.3	0.5	0.6	0.6	0.6	1.6	1.5	1.1	1.7	54.7
Diesel	2.4	2.4	2.6	3.6	3.8	2.2	3.1	1.0	0.6	0.9	30.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	2.7
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	4.3
Exports	30.5	37.9	39.0	39.9	46.0	43.8	36.0	36.6	34.7	35.9	100.0
Oil	29.3	36.4	37.5	38.3	45.2	43.6	36.0	36.6	34.7	35.9	100.0
Gas	1.2	1.6	1.4	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0
Gasoline	0.6	0.6	0.4	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0
Diesel	0.8	0.8	0.7	0.7	0.0	0.0	0.7	0.9	1.6	1.8	5.0
Heating Oil	3.3	3.8	3.8	3.7	3.6	2.4	2.7	2.4	1.9	2.0	5.6
Aviation Jet	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	60.8	66.0	65.8	75.4	78.3	78.0	88.2	75.8	77.2	83.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	114.9	116.1	111.5	122.2	121.1	117.3	130.0	109.7	109.1	113.9	-
Final energy intensity (toe/million \$15ppp)	40.4	42.5	40.4	45.2	44.7	42.5	45.3	41.8	41.9	41.5	-
Total energy intensity (toe/million \$15ppp)	59.0	55.0	53.4	62.7	60.0	58.1	60.2	55.5	54.9	55.3	-

*Heat is included

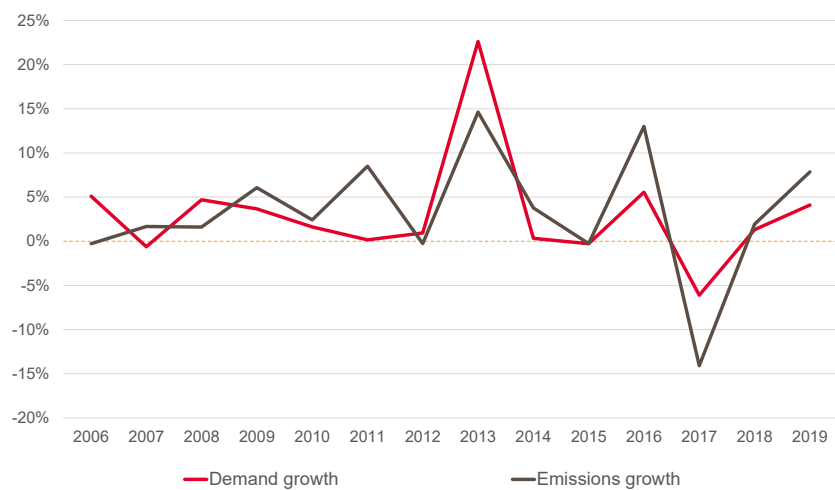
Primary energy demand mix



Electricity generation by source



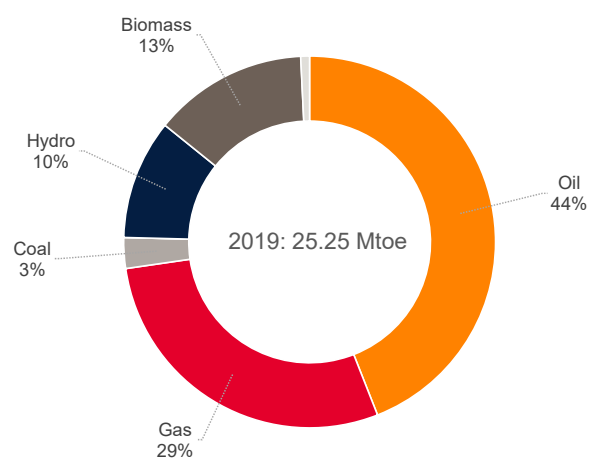
Primary energy demand and CO₂ emissions growth



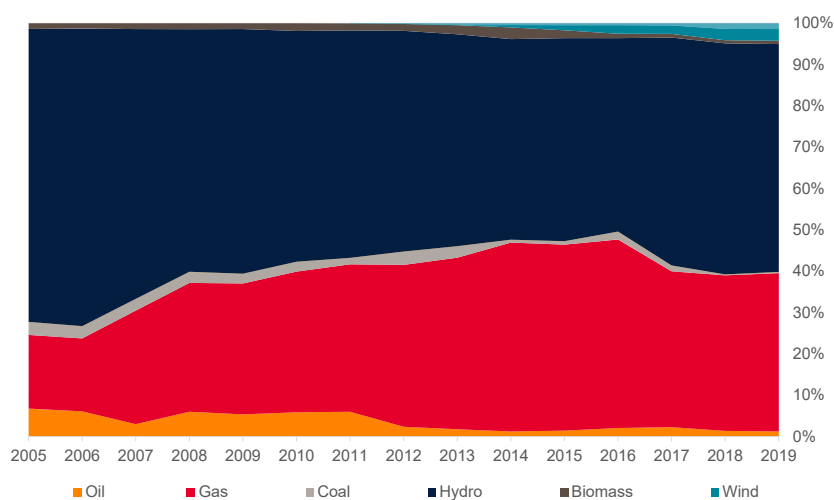
Peru (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	17.6	20.2	21.7	20.8	22.0	22.7	23.6	23.2	25.4	25.2	100.0
Oil	5.8	7.6	8.5	7.9	7.5	8.3	8.7	9.4	11.2	10.9	43.1
Gas	5.5	6.5	6.8	6.4	8.0	7.9	8.3	7.0	7.3	7.4	29.2
Coal	0.9	0.7	0.8	0.9	0.8	0.8	0.9	0.7	0.7	0.7	2.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.7	1.9	1.8	1.9	1.9	2.0	2.1	2.5	2.6	2.7	10.7
Biomass	3.7	3.6	3.7	3.7	3.7	3.5	3.5	3.3	3.4	3.4	13.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.8
Electricity balance of trade*	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total final consumption, by source	15.4	16.1	16.9	17.8	17.6	18.6	19.1	19.2	20.1	20.0	100.0
Oil	7.7	8.0	8.5	8.8	8.6	9.2	9.5	9.7	10.1	9.8	49.2
Gas	1.1	1.4	1.4	2.0	1.9	1.9	1.9	2.1	2.3	2.4	12.1
Coal	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.5	0.6	0.6	2.8
Electricity	2.7	2.9	3.1	3.3	3.4	3.6	3.9	4.0	4.2	4.3	21.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Biomass	3.2	3.1	3.3	3.2	3.1	3.1	3.2	2.8	2.9	2.9	14.3
Electricity generation, by source	3.1	3.4	3.4	3.7	3.9	4.1	4.4	4.5	4.7	4.9	100.0
Oil	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	1.2
Gas	1.1	1.2	1.3	1.6	1.8	1.9	2.0	1.7	1.8	1.9	38.3
Coal	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.7	1.9	1.8	1.9	1.9	2.0	2.1	2.5	2.6	2.7	55.2
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.8
Wind	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	2.8
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.4
Other renewables	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	15.4	16.1	16.9	17.8	17.6	18.6	19.1	19.2	20.1	20.0	100.0
Industry	4.3	4.6	4.5	5.1	5.1	5.3	5.2	5.4	5.7	5.8	28.9
Transport	5.8	6.1	6.4	6.9	6.9	7.5	8.2	8.3	8.6	8.5	42.5
Residential/Commercial	4.7	4.7	4.8	5.0	5.0	5.0	5.0	5.0	5.3	5.2	26.1
Oil final consumption, by sector	7.7	8.0	8.5	8.8	8.6	9.2	9.5	9.7	10.1	9.8	100.0
Industry	1.2	1.2	1.2	1.3	1.2	1.2	0.9	0.9	1.0	0.9	9.4
Transport	5.3	5.5	5.5	6.0	5.9	6.5	7.2	7.3	7.5	7.4	75.3
Residential/Commercial	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	11.9
Natural gas final consumption, by sector	1.1	1.4	1.4	2.0	1.9	1.9	1.9	2.1	2.3	2.4	100.0
Industry	0.7	0.8	0.8	1.2	1.0	1.1	1.1	1.3	1.2	1.3	54.7
Transport	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	30.1
Residential/Commercial	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.4	15.1
Refined products consumption	7.7	8.0	8.5	8.8	8.6	9.2	9.5	9.7	10.1	9.8	100.0
Gasoline	1.3	1.3	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	21.0
Diesel	4.3	4.5	4.5	4.7	4.6	5.1	5.2	5.1	5.2	5.0	50.9
Heating Oil	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.6
Aviation Jet	0.1	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.2	2.4
LPG	1.3	1.4	1.5	1.7	1.7	1.8	1.9	2.0	2.1	2.2	22.3
Imports	6.7	7.1	7.3	7.4	6.9	7.6	9.3	11.8	11.2	10.5	100.0
Oil	6.7	7.1	7.3	7.4	6.9	7.6	9.3	11.8	11.2	10.5	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.2	0.4	0.2	0.4	0.1	0.2	0.0	0.9	1.0	0.8	7.8
Diesel	1.4	1.6	1.7	2.4	2.4	2.7	3.6	3.6	3.5	3.4	32.6
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.1	0.1	0.1	0.2	0.4	0.3	0.5	0.4	0.4	4.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	3.7
Exports	7.1	9.7	10.4	10.8	9.1	8.2	9.9	11.7	10.1	9.6	100.0
Oil	5.0	4.3	5.2	4.8	4.0	3.4	4.1	6.2	5.1	4.2	44.0
Gas	2.1	5.3	5.2	6.0	5.1	4.8	5.8	5.5	5.0	5.4	56.0
Gasoline	1.8	1.6	1.9	2.0	1.6	1.6	1.7	2.4	2.2	1.9	20.0
Diesel	0.1	0.1	0.0	0.1	0.0	0.0	0.4	0.5	0.4	0.3	2.7
Heating Oil	1.2	1.1	1.6	1.2	0.8	0.7	1.2	2.5	2.1	1.7	18.1
Aviation Jet	0.5	0.5	0.6	0.6	0.8	0.6	0.7	0.7	0.0	0.0	0.0
LPG	0.4	0.2	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	41.7	45.0	44.6	45.4	48.2	49.7	52.1	49.8	50.1	49.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	149.2	151.7	141.6	136.1	141.1	140.9	142.3	132.6	128.3	124.4	-
Final energy intensity (toe/million \$15ppp)	53.9	53.2	51.3	52.3	50.7	51.8	51.6	50.3	50.6	49.5	-
Total energy intensity (toe/million \$15ppp)	63.0	68.0	68.7	62.5	64.3	64.3	64.4	61.6	64.9	63.2	-

*Heat is included

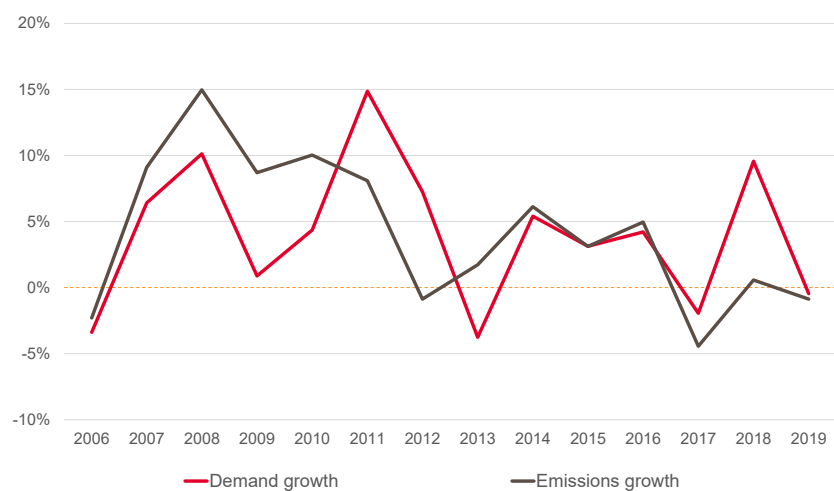
Primary energy demand mix



Electricity generation by source



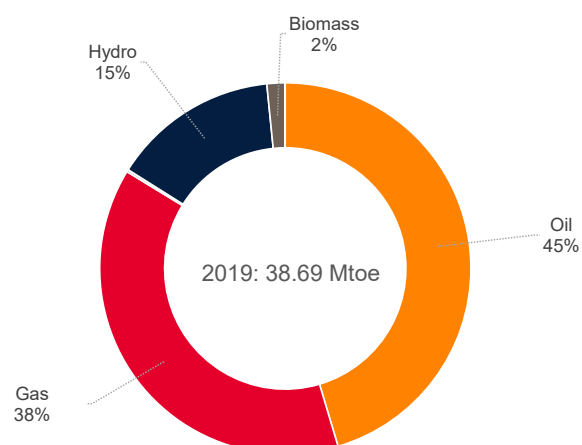
Primary energy demand and CO₂ emissions growth



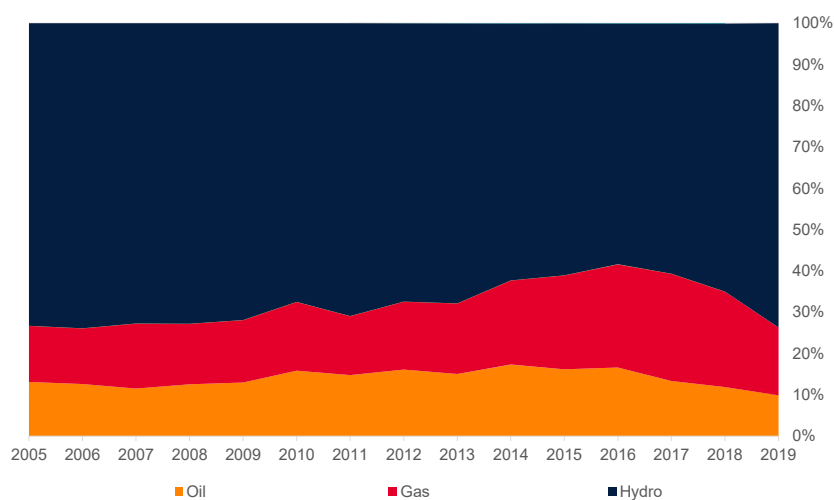
Venezuela (Million toe)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Share in 2019 (%)
Total primary energy demand, by source	72.4	67.3	73.1	68.8	65.5	60.0	55.6	49.8	43.8	38.7	100.0
Oil	44.0	38.1	43.2	39.3	38.7	32.4	28.2	22.7	20.1	17.6	45.5
Gas	20.8	20.9	21.7	21.2	20.4	20.3	21.3	20.9	18.0	14.9	38.4
Coal	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	6.6	7.2	7.1	7.2	5.5	6.4	5.4	5.6	5.1	5.6	14.5
Biomass	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	1.6
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.0	0.0	0.0	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.3
Total final consumption, by source	49.2	42.6	46.8	43.9	42.6	38.2	33.0	29.8	26.6	24.9	100.0
Oil	27.5	25.3	29.3	26.3	27.8	22.2	19.9	16.6	14.6	13.5	54.2
Gas	13.6	8.9	9.0	8.2	7.6	7.9	6.2	6.4	6.0	5.7	22.7
Coal	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3
Electricity	7.0	7.3	7.6	8.4	6.2	7.1	6.2	6.1	5.2	5.1	20.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	2.4
Electricity generation, by source	9.8	10.1	10.5	10.6	8.9	10.6	9.3	9.2	7.8	7.6	100.0
Oil	1.5	1.5	1.7	1.6	1.5	1.7	1.5	1.2	0.9	0.8	9.9
Gas	1.6	1.5	1.7	1.8	1.8	2.4	2.3	2.4	1.8	1.2	16.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	6.6	7.2	7.1	7.2	5.5	6.4	5.4	5.6	5.1	5.6	73.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	49.2	42.6	46.8	43.9	42.6	38.2	33.0	29.8	26.6	24.9	100.0
Industry	25.1	20.1	20.9	20.8	17.6	14.4	12.0	11.3	10.4	9.7	38.8
Transport	16.4	14.7	18.0	15.0	17.0	15.5	13.6	11.5	10.1	9.4	37.8
Residential/Commercial	6.7	6.7	7.0	7.0	7.0	7.4	6.6	6.4	5.6	5.3	21.5
Oil final consumption, by sector	27.5	25.3	29.3	26.3	27.8	22.2	19.9	16.6	14.6	13.5	100.0
Industry	8.9	8.2	8.8	8.6	8.1	4.7	4.4	3.6	3.2	2.9	21.7
Transport	16.4	14.6	17.9	15.0	17.0	15.4	13.6	11.5	10.1	9.4	69.7
Residential/Commercial	1.3	1.5	1.6	1.7	1.7	1.2	1.1	0.9	0.8	0.7	5.4
Natural gas final consumption, by sector	13.6	8.9	9.0	8.2	7.6	7.9	6.2	6.4	6.0	5.7	100.0
Industry	12.3	8.0	8.0	7.2	6.6	6.8	5.1	5.3	5.0	4.7	83.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	1.2	0.9	1.0	1.0	1.0	1.2	1.0	1.1	1.0	0.9	16.6
Refined products consumption	27.5	25.3	29.3	26.3	27.8	22.2	19.9	16.6	14.6	13.5	100.0
Gasoline	13.4	11.5	14.1	11.4	12.8	12.5	10.9	9.4	8.2	7.7	56.8
Diesel	6.5	4.9	6.1	5.7	6.7	4.6	4.1	3.2	3.0	2.7	20.0
Heating Oil	3.2	3.9	3.8	3.6	2.6	1.0	0.9	0.8	0.8	0.7	5.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	3.5	4.1	4.2	4.5	4.6	3.2	3.1	2.5	2.2	1.9	14.3
Imports	2.6	1.6	3.3	3.8	0.7	1.4	1.4	1.5	2.3	3.1	100.0
Oil	1.0	0.0	1.9	2.2	0.0	1.1	1.4	1.5	2.3	3.1	100.0
Gas	1.7	1.6	1.4	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.8	0.0	1.4	1.9	0.0	1.1	1.4	1.5	2.3	3.1	100.0
Heating Oil	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	126.2	131.0	122.0	123.7	117.5	122.7	112.0	100.7	72.5	47.4	100.0
Oil	126.2	131.0	122.0	123.7	117.5	122.7	112.0	100.7	72.5	47.4	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.5	1.3	0.4	0.4	0.5	1.6	0.7	0.8	0.3	0.2	0.4
Diesel	3.5	7.1	2.5	0.5	1.3	0.8	0.0	0.0	0.0	0.0	0.0
Heating Oil	9.1	11.2	10.7	8.9	10.4	11.0	12.6	10.4	8.6	6.1	12.8
Aviation Jet	3.1	3.6	3.0	2.3	2.5	2.3	1.4	0.9	0.6	0.4	0.9
LPG	1.7	2.5	2.7	2.3	2.2	0.2	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	171.7	146.0	164.3	152.5	151.9	140.8	127.6	113.9	99.6	86.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	334.8	273.2	291.1	266.6	276.3	273.1	298.3	315.8	343.6	459.4	-
Final energy intensity (toe/million \$15ppp)	94.0	77.9	81.2	75.0	75.7	72.3	75.4	80.8	90.0	129.7	-
Total energy intensity (toe/million \$15ppp)	141.2	125.9	129.6	120.3	119.1	116.4	130.0	138.2	151.0	205.3	-

*Heat is included

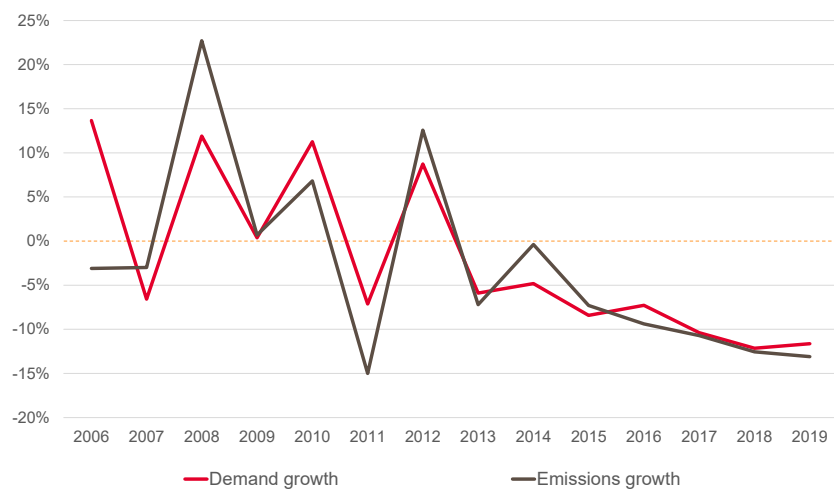
Primary energy demand mix



Electricity generation by source



Primary energy demand and CO₂ emissions growth



Conversion factors

Crude oil

To convert to:	tonnes	10 ³ litres	barrels	U.S. gallons	tonnes/year
Multiply by:					
tonnes	1.00	1.17	7.33	307.86	–
10 ³ litres	0.86	1.00	6.29	264.17	–
barrels	0.14	0.16	1.00	42.00	–
U.S. gallons	0.00	0.00	0.02	1.00	–
barrels per day	–	–	–	–	49.80

Note: based on worldwide average gravity.

Products

To convert to:	barrels to tonnes	tonnes to barrels	10 ³ litres to tonnes	tonnes to 10 ³ litres
Multiply by:				
Liquefied petroleum gas (LPG)	0.1	11.5	0.5	1.8
Gasoline	0.1	8.3	0.8	1.3
Kerosene	0.1	7.8	0.8	1.2
Gas oil/Diesel	0.1	7.6	0.8	1.2
Fuel oil	0.2	6.6	1.0	1.0
Product basket	0.1	8.7	0.7	1.4

Note: Approximate conversion factors.

Natural Gas and Liquefied Natural Gas (LNG)

To convert to:	Bcm NG	Bcf NG	Million toe	Million ton. LNG	Million boe
Multiply by:					
Bcm NG	1.0	35.3	0.9	0.7	6.6
Bcf NG	0.0	1.0	0.0	0.0	0.2
Million toe	1.1	39.2	1.0	0.8	7.3
Million ton. LNG	1.4	48.0	1.2	1.0	9.0
Million boe	0.2	5.4	0.1	0.1	1.0

Note:

Bcm = billion cubic meter

Bcf = billion cubic feet

toe = tonnes oil equivalent

boe = barrels oil equivalent

Glossary

Definitions

Primary Energy Demand

Quantity of natural energy resources consumed in original state, at the site of production or elsewhere, or for later transformation into other forms.

Final Energy Consumption

Difference between domestic demand and the consumption in energy transformations, and the losses involved. Final consumption measures the needs of the final consumers of the country. For oil, marine and aviation bunkers are excluded for countries.

Industry

Includes the mining sector, manufacturing sector, construction and public works sector. It excludes the fuel consumption of all modes of transport, even those used by industry, and excludes energy products employed for non-energy uses (e.g. raw materials, lubricants). It also excludes the fuel input for autoproduction and includes the autoproduced electricity.

Transport

Includes all modes of transportation (ISIC Divisions 49 to 51), regardless of to whom they belong, and to what purpose the transport serves. Aviation and marine bunkers (international aviation and sea transport) are excluded, except at the world level.

Residential/Commercial

Final consumption of energy products used for energy uses, excluding industry, transport, and agriculture sectors. ISIC Divisions 33, 36-39, 45-47, 53, 55, 56, 58-66, 68-75, 77-82, 84 [excluding class 8422], 85-88, 90-96 and 99 [for tertiary], and 97 and 98 [for residential].

CO₂ Emissions

Emissions from combustion of mainly fossil fuels, estimated using the IPCC Reference Approach.

CO₂ Intensity to GDP

Amount of CO₂ emitted to produce one unit of Gross Domestic Product (GDP). In this publication it is presented in year 2015 real terms in purchasing power parity (ppp).

Primary Energy Intensity to GDP

Primary energy consumed to produce one unit of Gross Domestic Product (GDP). Non-energy uses are excluded. In this publication it is presented in year 2015 real terms in purchasing power parity (ppp).

Final Energy Intensity to GDP

Final energy consumed to produce one unit of Gross Domestic Product (GDP). Non-energy uses are excluded. In this publication it is presented in year 2015 real terms in purchasing power parity (ppp).

Geographical grouping

European Union (UE28)

Austria, Belgium, Bulgaria, Croatia, Republic of 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, Korea, Latvia, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom and United States.

OPEC

Algeria, Angola, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Republic of the Congo, Saudi Arabia, United Arab Emirates and Venezuela.

MORE INFORMATION

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