



Annual
Energy-Statistics
2021

Annual / Energy-Statistics 2021

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), 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 2020 (the latest estimations). It represents the situation of the world energy sector covering more than 90% of global energy consumption.

Regarding the content and structure of this publication, firstly, it presents a brief analysis of the highlights of recent developments in the energy markets, including oil, natural gas and electricity, as well as CO₂ emissions at international level, as well as a special analysis of the energy sector in Spain.

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 2011 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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Energy demand recent development

The spread of COVID-19 at the beginning of 2020 has led to an unprecedented global health and economic crisis. The pandemic and the confinement measures taken to alleviate the health crisis represent the greatest disruptive phenomenon in the world economy since the end of World War II. In this way, the footprint that this pandemic has left on the energy variables are more than evident.

Total primary energy demand decreased by 4% in 2020 to 13,828 million tonnes of oil equivalent (toe). Oil represented 30% of the primary energy consumed globally, the highest participation in the energy mix despite having suffered the greatest contraction in demand compared to 2019 among all energy sources, almost -9% year-on-year. Oil is followed by coal with 26% and natural gas with 24%.

Renewables were the only energy sources increasing demand in 2020. However, they also felt the aftereffects of the pandemic showing lower growth than in recent years. If we exclude hydroelectric and biomass, the rest of renewables experienced a growth compared to 2019 close to 14%, while in the previous ten years the growth was around 20%.

In 2020, OECD economies reduced demand by 7% year-on-year, with a dramatic drop in demand for coal and oil, 16% and 10%, respectively. Meanwhile, in the non-OECD demand contracted by 1.3%, with oil demand falling the hardest, almost 5%, while coal demand fell by 0.9%.

By sector, and as a natural consequence of the confinements, transport was the most affected, falling by 12.3% year-on-year and losing more than two percentage points of its weight in the global final consumption mix. On the other hand, the residential/commercial and industrial sectors experienced milder falls in their consumption of 1.2% and 1.5%, respectively.

Global energy intensity continued its positive trend –reducing intensity- in 2020, largely because the contraction in primary energy demand was greater than the contraction of the economy. However, there was divergence in regional terms, with the OECD's contribution to global dynamics being greater, since in the Non-OECD region this efficiency indicator increased.

CO₂ emissions recent development

Closely linked to the economic and energy dynamics, CO₂ emissions in 2020 fell sharply compared to the previous year (about 5%). A fall 8 times higher than that registered in 2009 due to the *subprime* crisis.

Regionally, the behavior was very different, and while in North America and Europe emissions fell by more than 10%, in Asia the reduction was a slight 1%. The reason was China, which was one of the few countries that increased its emissions and already emits more CO₂ than all the OECD countries combined.

On the opposite side we find the US as the country with the largest reduction in emissions in levels, while Spain was the one with the largest percentage reduction [-19% compared to 2019].

The picture is very different looking at other indicators, such as per capita emissions, where the Countries of the Persian Gulf continue to top the list. As an example, each Qatari generates almost 8 times more CO₂ than the world average. In the case of Spain, the fall in emissions has caused that during this 2020 per capita emissions are slightly below the global average [4.4 tons per inhabitant compared to the 4.5 t/hab global average].

Regarding to emissions intensity (emissions per unit of GDP), European countries continue to be the most efficient with their emissions, well below most large emitters, making emissions per dollar of GDP in the EU 45% below the world average. Within the EU, Spain is almost 15% below the European average. It should be noted that most countries have improved this indicator during the year 2020 indicating that, in this time of paralysis due to the pandemic, the reduction in emissions has been greater than the economic contraction.

Oil market recent development

Brent crude price averaged 42 dollars per barrel (\$/bl) in 2020, a sharp drop of 35% compared to the average price of 2019. The COVID-19 pandemic has led to an unprecedented crisis in the oil market.

The health and economic crisis derived from the pandemic led the price of crude to evolve with great volatility. In April 2020 Brent prices, the global benchmark, traded below 20 \$/bl, a level not seen since the beginning of the century. At those critical moments, US benchmark crude WTI reached negative levels of -37 \$/bl for the first time in history. From then on, crude prices began a progressive upward trend, which took prices to 50 \$/bl at the end of the year. The levers that supported this trend are found in both supply and demand factors. On the supply side, and except for the response of the OPEC+ group in March 2020 when an agreement to attack the effects of the pandemic on demand was not reached, leading to a price war, the OPEC+ response was more agile than previous occasions and with had successful effects. The group agreed to cut a record 9.7 million bl/d in April 2020. And unlike the price shock that took place in 2015, when prices plummeted 47% vs. 2014, the group carried out and continues to carry out an exhaustive monitoring of the market in real time. As a result, the countries adhering to the agreement progressively relaxed production cuts to 7.7 million bl/d in December 2020. At the time of writing this report, OPEC+ countries agreed to increase production by 400 thousand bl/d on a monthly basis starting August to December, as well as extending the agreement until December 2022. This commitment is a sign of the group's willingness to rebalance the markets and, at the same time, support prices.

Regarding demand factors, the pandemic led to a drop in global oil demand of 8.7 million bl/d compared to 2019, the largest annual contraction in oil consumption the world has ever seen. The mobility restrictions imposed to stop the spread of the virus brought the global economy in general and oil demand in particular to a drastic halt. The second quarter of the year saw a sharp drop of 16 million bl/d, bringing global oil consumption to 2005 levels. The summer season, associated with greater mobility, underpinned oil consumption which increased by almost 10 million bl/d during the third quarter compared to the previous quarter. This made more evident the dynamics that oil demand follows in times of the COVID/19 pandemic: any relief of the effects of the pandemic through the relaxation of restrictive measures leads to an increase in mobility. This dynamic was accelerated with the appearance of the first vaccines against COVID-19 in November 2020. Brent prices, which by then averaged 43 \$/bl, started an upward trend that has led prices to average 73 \$/bl in June 2021.

Looking ahead, the evolution of oil prices will depend fundamentally on the evolution of the pandemic. In other words, increases in restrictions caused by the increase in the incidence of the virus, or problems related to vaccination programs may again lead to restrictions on mobility. And vice versa. Likewise, OPEC+'s production cuts agreement should support prices. As has been seen recently, the extension of the agreement until December 2022 is a representative sample of the commitment with the rebalancing of the oil markets, not only from the *de facto* leaders Saudi Arabia and Russia, but from the OPEC+ group as a whole.

Natural gas market recent development

The year 2020 was marked by the expansion of Covid-19 and the effects it had on economic activity and energy markets. As a result, natural gas prices fell sharply. In the US, the Henry Hub averaged \$2.1/MMBtu in 2020, a level not recorded since the mid-90s, while Asian LNG (Japan Korea Marker) prices recorded their lowest level, 4.2 \$/MMBtu. In Europe, prices also plummeted, with main prices slightly above 3 \$/MMBtu.

On the demand side, global natural gas consumption fell by 48 Bcm. However, the share of gas in primary energy remained above 20%. The drops in gas demand vs 2019 were led by CIS (-18 Bcm), Europe (-16 Bcm) and South-Central America (-15 Bcm). These declines were partially offset by increases in the Middle East and Asia-Pacific (+5 Bcm and +4 Bcm, respectively). An earlier return to economic and industrial activity, allowed these regions to recover progressively normal levels of gas demand.

Despite this context, interruptions in the supply of gas (mainly in Asia-Pacific), the resumption of economic activity and different cold waves experienced in Asia and Europe at the end of the year, caused a strong rebound in demand and prices, which rocketed in 4Q20, offsetting the “bad numbers” of the previous quarters.

On the supply side, there were also contractions. By main producing regions, Russia led the fall with a production 6% lower than in 2019, about 47 Bcm less. Production also contracted in Europe, with the Netherlands leading the way, which reduced its production share by almost 10 Bcm year-on-year. With demand weakened and as gas prices fell below operating costs, production also fell in the US, even causing the cancellation of LNG cargoes. The average utilization rates of LNG facilities in this country began to decline in April last year, reaching a low of around 30-35% in mid-summer. Even so, with the recovery in 4Q21, U.S. LNG exports increased year-on-year, helped by the entry into operation of new LNG trains and capacity expansions in existing ones.

In summary, global gas production fell by 65 Bcm, surpassing the fall in demand, which helped to balance the natural gas market. Nowadays, Covid-19 is still active although the expansion of vaccination programs has prevented economic and industrial activity from being paralysed again. In fact, during the first half of 2021, the natural gas market has continued the path started at the end of 2020, with a tight market, strong Asian import appetite, low inventories in Europe and very high global prices. For the rest of the year, high price levels are expected to continue, even recovering average levels close to those seen in 2018.

Power generation recent development

The decline in economic activity in 2020 due to the coronavirus crisis caused the first contraction in global electricity generation since 2009 and, compared to the average growth of demand in the last decade of 3% per year, in 2020 there was a contraction of 0.6%.

This reduction in demand, together with the new renewable generation capacity, caused the largest increase in the renewable's generation share in recent years on a global scale, increasing up to two percentage points (p.p) compared to 2019. Only wind increased its share by 0.7 p.p. while solar by 0.5 p.p. It should be noted that the share of generation with renewables - excluding hydroelectric and biomass - in the OECD reached 13.5% in 2020, while in the world it stood at 9.6%.

The only energy source that increased its share in global generation, besides renewables, was natural gas. The rest of the sources lowered their share, with coal being the most affected, falling almost 1.5 p.p. its share.

In the European Union [28] the contraction in electricity demand was much greater than in the rest of the world's major economies, registering a reduction of 4.5%, compared to -3.1% in the US or the 3.7% increase in electricity demand in China. Within the EU, Spain remained in the intermediate range, with a fall of 3.7%, while France and Germany recorded contractions of 6.7% and 6.5%.

Spanish energy market recent development

The reduction in commercial and industrial activity caused in Spain one of the largest contractions in oil consumption in the world (-18%) much higher than in the countries around us [the fall in the EU as a whole was 13%] and doubling the global average fall.

Within petroleum products, it was diesel that recorded the largest correction in demand in levels. However, in percentage terms it was the kerosene who were most affected by the drastic stoppage of the aviation sector, which caused falls of more than 90% during the second quarter of the year. In the whole of the year, diesel increased its share to almost 60% of the Spanish product mix.

In the case of natural gas consumption, the Spanish system also suffered a significant contraction of 10%, compared to an average growth of 5% in the period 2015-2019. Most of this drop in demand was caused by the reduced need for gas for electricity generation.

The electricity market in Spain in 2020 was characterized by a sharp fall in prices, due to lower demand and the fall in gas prices, as well as the entry of new renewable generation capacity. Finally, prices in the wholesale electricity market averaged below 34 €/MWh during the year, the lowest value since 2004.

In 2020, nearly 3 GW of solar PV power and 1.8 GW of wind power were installed, offsetting the closure of nearly 4 GW of coal-fired generation capacity. With these new installations, solar capacity has multiplied by 2.5 in just two years, and wind has surpassed natural gas combined cycles, positioning itself as the technology with the highest installed capacity in the Spanish park.

In the share of generation by technology there is little change from the previous year. Nuclear continued to be the main source of generation, closely followed by wind power. While the presence of natural gas and coal was significantly reduced given that, faced with a scenario of contraction in demand, the technologies that stop producing are those with the highest operating costs.

Thus, the Spanish mix closed 2020 with 44% of renewable generation, improving 4 percentage points over the previous year, while emission-free generation amounted to 66%.

Consumption indicators for the first months of 2021 for petroleum products do not show a recovery in demand and continue 18% below that recorded in 2019 (with kerosene almost 75% below what was recorded pre-pandemic). In the case of gas, direct consumption has practically recovered (it is 1.5% below 2019), however, the demand for gas for electricity generation is almost 24% below the levels of 2019, weighed down by high gas prices.

In the case of electricity, all historical price records have been broken during the beginning of 2021, but it wasn't only because of an extraordinary and punctual event, such as the snowfall of the Filomena storm, but it has come hand in hand with the increase in natural gas prices and CO₂ emissions. The price of the electricity pool until July has been above 63 €/MWh, 35% above the same dates of the 2015-2019 period. No price easing is expected in the coming months, as both European gas and CO₂ futures remain high. Even the intention on the part of the European Union to tighten up emissions targets causes a clearly upside risk in terms of the prices of emission rights, which have already stabilized comfortably above 50 €/t. But let us remember that the wholesale cost of electricity, even at these levels does not explain more than 40% of the final price, the rest are charges and taxes.

Statistical annex



Oil

Oil Proved Reserves (Thousand million barrels)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	224.1	227.9	231.6	236.9	229.2	228.1	228.7	246.1	243.9	242.9
Canada	174.2	173.7	173.0	172.2	171.5	170.5	171.8	170.7	169.1	168.1
Mexico	10.2	10.0	10.1	9.8	9.7	7.6	7.0	6.5	6.1	6.1
United States	39.8	44.2	48.5	55.0	48.0	50.0	49.9	68.9	68.8	68.8
South and Central America	321.7	322.3	323.6	325.5	322.8	322.7	329.1	324.4	324.0	323.4
Argentina	2.5	2.4	2.3	2.4	2.4	2.2	2.0	2.4	2.5	2.5
Brazil	15.0	15.3	15.5	16.2	13.0	12.6	12.8	13.4	12.7	11.9
Chile	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Colombia	2.0	2.2	2.4	2.4	2.3	2.0	1.7	1.8	2.0	2.0
Peru	1.2	1.4	1.6	1.4	1.2	1.2	1.0	0.9	0.8	0.7
Trinidad & Tobago	0.7	0.7	0.7	0.7	0.7	0.2	0.2	0.2	0.2	0.2
Venezuela	297.6	297.7	298.4	300.0	300.9	302.3	302.8	303.8	303.8	303.8
Other	2.5	2.4	2.5	2.3	2.2	2.1	8.5	1.7	1.9	2.0
Europe	13.9	14.2	13.7	12.9	13.9	13.1	13.6	14.5	14.2	13.6
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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Italy	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5
Netherlands	0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1
Norway	6.9	7.5	7.0	6.5	8.0	7.6	7.9	8.6	8.5	7.9
Poland	0.2	0.2	0.2	0.1	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	0.4	0.4
United Kingdom	3.1	3.0	3.0	3.0	2.8	2.6	2.5	2.5	2.7	2.5
EU	3.1	2.9	2.8	2.7	2.6	2.4	2.4	2.4	2.4	2.4
Other	1.5	1.4	1.3	1.1	0.9	0.7	1.2	1.4	0.9	1.2
Former Soviet Union	144.2	143.9	143.5	141.6	140.8	144.7	145.0	145.7	146.2	146.2
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	105.7	105.5	105.0	103.2	102.4	106.3	106.6	107.2	107.8	107.8
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	797.9	799.3	802.9	803.1	802.9	807.7	807.7	833.9	836.0	835.9
Iran	154.6	157.3	157.8	157.5	158.4	157.2	155.6	155.6	157.8	157.8
Iraq	143.1	141.4	140.3	144.2	143.1	142.5	148.8	147.2	145.0	145.0
Kuwait	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
Qatar	23.9	25.2	25.1	25.7	25.2	25.2	25.2	25.2	25.2	25.2
Saudi Arabia	265.4	265.9	265.8	266.6	266.5	266.2	266.2	297.7	297.6	297.5
United Arab Emirates	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
Other	11.7	10.2	14.6	9.7	10.5	17.3	12.6	8.8	11.1	11.1
Africa	124.6	127.4	127.5	126.8	127.6	127.9	126.6	125.7	125.0	125.1
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	9.0	8.4	9.5	9.5	9.5	8.2	7.8	7.8
Egypt	4.3	4.2	3.9	3.7	3.5	3.4	3.6	3.2	3.1	3.1
Libya	48.0	48.5	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
Nigeria	36.2	37.1	37.1	37.4	37.1	37.5	37.5	37.0	36.9	36.9
Other	14.8	16.3	17.0	16.6	17.0	16.9	15.4	16.8	16.6	16.7
Asia-Pacific	47.9	48.5	49.1	47.7	46.6	45.9	45.8	45.9	45.3	45.2
Australia	3.9	3.9	4.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
China	20.4	23.7	24.4	24.6	25.1	25.6	25.6	25.9	26.2	26.0
India	5.7	5.7	5.7	5.7	4.8	4.7	4.5	4.5	4.7	4.5
Indonesia	3.7	3.7	3.7	3.6	3.6	3.3	3.2	3.2	2.5	2.4
Malaysia	3.7	3.7	3.8	3.6	3.0	2.8	2.7	2.7	2.7	2.7
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Thailand	0.5	0.4	0.5	0.4	0.4	0.3	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	5.5	2.8	2.6	2.8	2.8	2.3	2.5	2.5	2.2	2.3
OECD	242.8	247.2	250.5	253.6	246.8	244.6	256.7	263.7	261.5	260.0
Non-OECD	1,431.5	1,436.3	1,441.3	1,440.8	1,437.1	1,445.6	1,439.9	1,472.4	1,473.3	1,472.4
OPEC	1,173.2	1,175.0	1,180.5	1,180.6	1,182.6	1,189.0	1,215.0	1,214.5	1,216.0	1,216.0
Non-OPEC	501.1	508.6	511.4	513.8	501.3	501.2	481.6	521.7	518.8	516.4
World	1,674.3	1,683.6	1,691.9	1,694.4	1,683.9	1,690.3	1,696.6	1,736.1	1,734.8	1,732.4

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

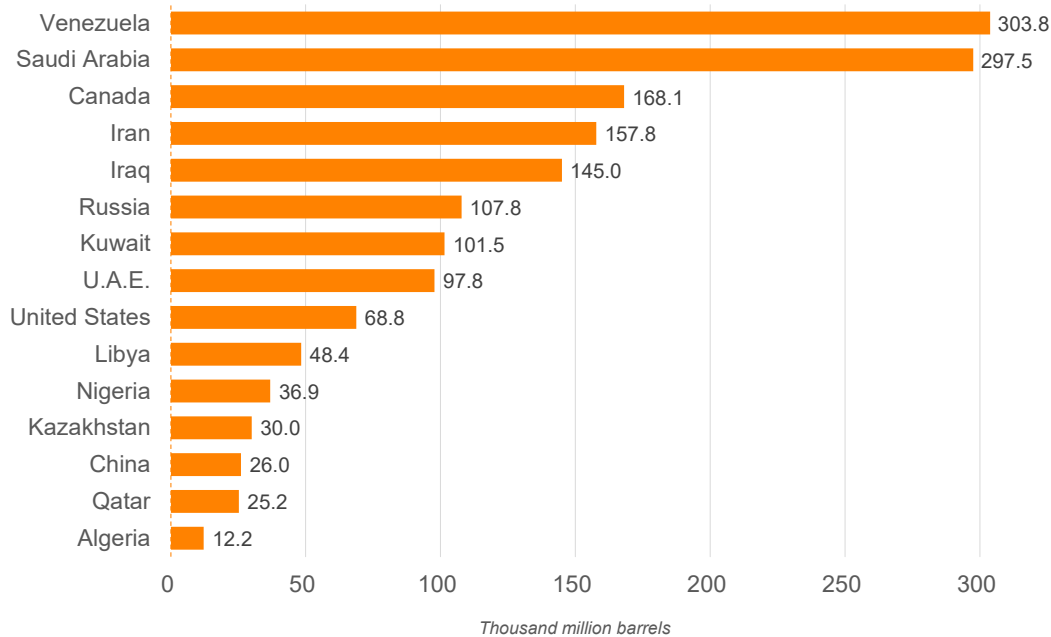
Oil Production (Thousand barrels per day)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	14,672	15,955	17,352	19,250	20,157	19,591	20,527	22,993	24,636	23,810
Canada	3,649	3,891	4,145	4,425	4,536	4,615	4,990	5,408	5,544	5,303
Mexico	2,943	2,920	2,890	2,799	2,597	2,463	2,229	2,073	1,928	1,932
United States	8,080	9,144	10,317	12,026	13,024	12,513	13,308	15,512	17,164	16,575
South and Central America	7,502	7,466	7,489	7,710	7,845	7,529	7,269	6,641	6,331	5,914
Argentina	674	674	649	659	650	625	595	621	647	609
Brazil	2,211	2,167	2,133	2,367	2,547	2,628	2,755	2,713	2,897	3,044
Chile	13	11	11	9	6	5	6	9	12	9
Colombia	918	953	1,016	997	1,014	906	862	873	893	788
Peru	0	0	0	0	0	0	0	0	1	70
Trinidad & Tobago	16	16	16	16	16	16	16	16	16	15
Venezuela	2,751	2,733	2,722	2,672	2,665	2,429	2,133	1,534	982	578
Other	919	912	942	990	947	920	902	875	883	801
Europe	3,975	3,669	3,463	3,471	3,629	3,650	3,605	3,578	3,454	3,653
Czech Republic	8	8	5	7	7	5	7	6	5	8
France	49	37	31	28	31	31	30	21	34	35
Germany	84	84	76	62	67	68	67	67	62	76
Italy	127	138	134	128	131	96	97	110	89	111
Netherlands	32	30	31	38	36	24	24	23	18	23
Norway	2,040	1,917	1,838	1,889	1,948	1,995	1,969	1,850	1,737	2,001
Poland	25	23	30	29	28	22	24	32	30	30
Portugal	1	0	1	1	0	1	1	0	1	0
Romania	88	85	84	82	82	78	74	73	72	69
Spain	20	32	10	6	5	3	2	2	1	1
Turkey	46	45	47	48	48	49	49	55	58	62
United Kingdom	1,123	955	887	873	972	1,026	1,009	1,109	1,135	1,057
EU	3,893	3,583	3,372	3,378	3,538	3,564	3,521	3,490	3,364	3,561
Other	332	315	289	280	274	252	252	230	212	180
Former Soviet Union	13,573	13,599	13,833	13,896	14,036	14,205	14,314	14,573	14,643	13,500
Azerbaijan	924	879	885	862	849	829	784	793	765	699
Kazakhstan	1,703	1,683	1,733	1,728	1,694	1,669	1,848	1,937	1,942	1,836
Russia	10,539	10,623	10,793	10,892	11,084	11,328	11,321	11,494	11,582	10,607
Ukraine	69	76	69	61	54	50	49	51	55	54
Uzbekistan	71	63	60	56	52	48	46	43	40	38
Other	267	275	293	297	303	281	266	255	259	266
Middle East	27,578	28,120	27,983	28,431	29,761	31,506	31,069	31,640	30,226	27,772
Iran	4,164	3,551	3,289	3,429	3,593	4,422	4,762	4,612	3,370	3,018
Iraq	2,741	3,021	3,146	3,415	4,078	4,503	4,563	4,663	4,812	4,148
Kuwait	2,771	2,985	3,109	3,090	3,097	3,194	3,014	3,050	2,987	2,717
Qatar	895	925	955	950	988	1,012	978	986	979	957
Saudi Arabia	11,217	11,742	11,513	11,605	12,045	12,344	11,876	12,345	11,914	11,106
United Arab Emirates	3,204	3,355	3,478	3,552	3,762	3,848	3,740	3,801	4,009	3,675
Other	2,586	2,541	2,493	2,390	2,198	2,183	2,136	2,183	2,155	2,151
Africa	8,823	9,660	8,820	8,390	8,323	7,796	8,205	8,309	8,451	6,997
Algeria	1,672	1,619	1,573	1,585	1,590	1,604	1,530	1,512	1,490	1,356
Angola	1,712	1,834	1,772	1,696	1,796	1,743	1,701	1,543	1,449	1,328
Egypt	689	694	696	709	696	664	639	649	633	597
Libya	485	1,476	953	497	437	426	877	1,029	1,159	384
Nigeria	2,490	2,482	2,293	2,330	2,246	1,928	1,986	2,030	2,123	1,856
South Africa	120	131	120	103	106	103	106	102	104	92
Other	1,655	1,424	1,413	1,470	1,452	1,328	1,366	1,444	1,493	1,384
Asia-Pacific	8,252	8,321	8,138	8,174	8,315	8,018	7,798	7,665	7,720	7,538
Australia	473	465	393	412	371	345	315	345	458	464
China	4,044	4,102	4,144	4,181	4,271	3,982	3,892	3,848	3,921	3,970
India	915	904	883	881	872	852	861	845	803	750
Indonesia	942	902	861	835	817	866	824	798	772	734
Japan	17	16	14	13	12	11	12	10	11	10
Malaysia	652	657	624	653	701	737	729	723	670	604
New Zealand	52	47	41	46	48	41	37	30	30	26
South Korea	20	21	19	20	22	24	25	29	28	34
Thailand	407	443	438	436	451	462	455	445	442	410
Other	730	764	721	697	750	698	648	592	585	536
OPEC	34,056	35,664	34,628	34,659	36,050	37,117	36,861	36,848	35,041	30,856
Non-OPEC	54,361	55,219	56,734	59,166	60,587	59,859	60,730	63,597	65,554	63,025
Global biofuels	1,879	1,922	2,090	2,273	2,288	2,391	2,461	2,669	2,779	2,584
Processing gains	2,164	2,171	2,192	2,230	2,282	2,288	2,342	2,377	2,356	2,113
World	88,417	90,883	91,362	93,825	96,637	96,976	97,591	100,445	100,595	93,881

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

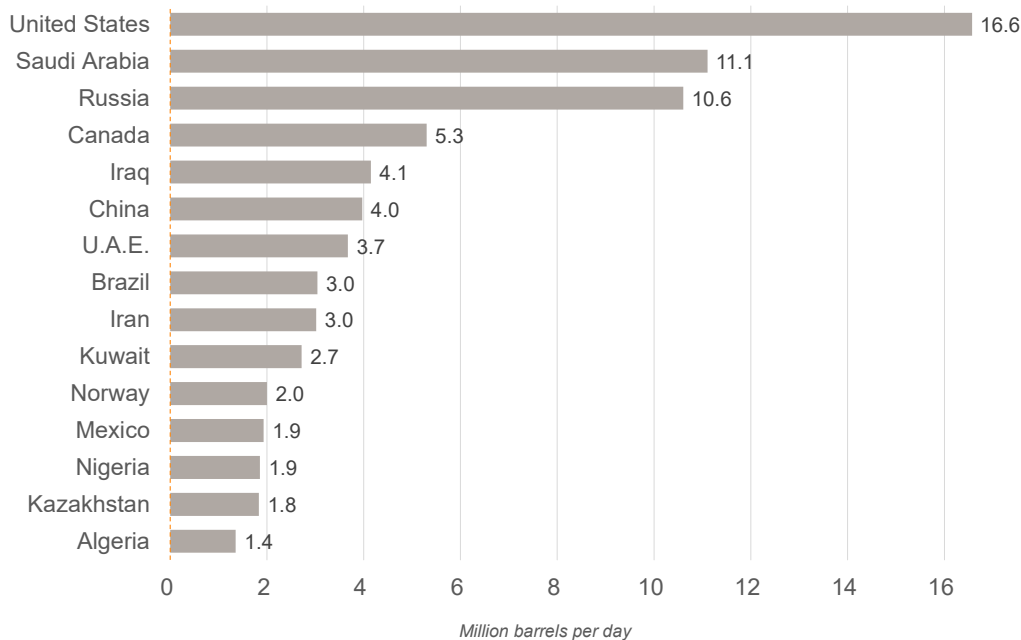
Oil Final Consumption (Thousand barrels/day)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	23,760	23,331	23,773	23,842	24,286	24,518	24,756	25,361	25,285	22,225
Canada	2,392	2,438	2,418	2,389	2,440	2,466	2,464	2,525	2,370	2,102
Mexico	2,120	2,102	2,090	2,040	2,006	2,053	2,019	2,019	2,052	1,680
United States	19,248	18,791	19,265	19,413	19,840	19,999	20,273	20,822	20,863	18,443
South and Central America	6,532	6,753	6,950	7,074	6,993	6,789	6,736	6,606	6,603	5,953
Argentina	663	679	693	688	682	677	666	648	625	535
Brazil	2,869	2,975	3,125	3,257	3,191	3,004	3,043	2,976	3,078	2,928
Chile	332	332	339	336	331	352	357	363	369	336
Colombia	307	326	324	330	341	375	349	352	361	311
Peru	212	219	225	223	235	246	260	265	269	232
Trinidad & Tobago	43	40	44	44	46	47	44	37	36	31
Venezuela	772	830	828	809	710	629	565	477	360	220
Other	1,334	1,352	1,372	1,387	1,457	1,459	1,452	1,488	1,505	1,360
Europe	15,041	14,562	14,349	14,257	14,577	14,777	15,176	15,075	15,022	13,146
Belgium	611	596	615	607	623	632	638	683	665	589
Czech Republic	198	195	188	202	196	180	214	217	219	192
Finland	208	200	211	207	207	210	208	211	204	209
France	1,824	1,789	1,764	1,745	1,746	1,707	1,736	1,688	1,690	1,433
Germany	2,392	2,389	2,435	2,374	2,368	2,383	2,450	2,333	2,362	2,149
Italy	1,494	1,370	1,260	1,266	1,274	1,237	1,244	1,272	1,205	1,021
Netherlands	991	963	940	932	921	937	946	931	899	885
Norway	225	220	218	216	223	212	215	222	207	180
Poland	559	533	505	504	541	582	658	680	694	660
Portugal	256	230	234	233	237	237	242	231	250	202
Romania	184	192	187	190	194	204	217	214	228	227
Spain	1,385	1,301	1,208	1,200	1,247	1,290	1,297	1,332	1,328	1,089
Sweden	322	309	307	305	302	317	322	292	296	239
Turkey	655	689	747	763	881	942	991	958	989	923
United Kingdom	1,582	1,534	1,512	1,518	1,560	1,596	1,625	1,608	1,568	1,212
EU	13,642	13,151	12,877	12,799	12,986	13,116	13,453	13,382	13,317	11,600
Other	2,155	2,052	2,018	1,995	2,057	2,111	2,173	2,203	2,218	1,936
Former Soviet Union	4,221	4,239	4,333	4,618	4,598	4,492	4,655	4,688	4,780	4,568
Azerbaijan	86	90	97	96	96	96	102	103	104	93
Kazakhstan	272	257	348	258	322	349	334	326	332	302
Russia	3,094	3,082	3,151	3,529	3,480	3,313	3,499	3,498	3,576	3,456
Ukraine	290	286	274	238	220	244	236	243	246	230
Uzbekistan	89	81	75	81	81	85	85	93	95	89
Other	390	443	388	416	399	405	399	425	427	398
Middle East	7,432	7,851	8,084	8,372	8,460	8,289	8,319	8,288	8,339	7,749
Iran	1,786	1,856	2,046	2,027	2,002	1,845	1,895	1,984	1,969	1,861
Iraq	690	785	861	879	802	857	826	878	871	803
Kuwait	448	461	446	449	433	437	435	434	445	419
Qatar	173	205	204	230	227	222	248	267	272	230
Saudi Arabia	2,785	2,979	2,964	3,196	3,415	3,301	3,205	3,065	3,084	2,967
United Arab Emirates	674	713	762	770	838	895	943	880	926	777
Other	876	852	801	821	743	732	767	780	772	692
Africa	3,559	3,801	4,012	4,154	4,184	4,138	4,156	4,255	4,251	3,825
Algeria	365	389	417	435	447	430	425	437	446	406
Angola	104	120	142	156	154	135	119	117	117	109
Egypt	757	802	788	840	858	829	773	760	725	637
Libya	179	262	280	270	228	208	217	227	235	202
Nigeria	310	337	414	454	415	427	431	460	497	491
South Africa	626	604	630	620	640	607	643	659	647	555
Other	1,218	1,287	1,341	1,379	1,442	1,502	1,548	1,595	1,584	1,425
Asia-Pacific	28,565	29,732	30,435	30,974	32,410	33,208	34,414	34,982	35,444	33,586
Australia	1,098	1,127	1,139	1,128	1,123	1,117	1,170	1,186	1,175	1,020
China	9,408	9,803	10,373	10,798	11,639	12,013	12,574	13,002	13,680	13,926
India	3,475	3,660	3,725	3,898	4,280	4,510	4,753	4,942	4,988	4,534
Indonesia	1,593	1,747	1,735	1,761	1,683	1,594	1,703	1,857	1,824	1,570
Japan	4,413	4,675	4,517	4,282	4,163	4,030	3,932	3,786	3,652	3,274
Malaysia	637	613	714	731	688	708	731	712	751	639
New Zealand	153	152	155	157	161	168	177	180	181	152
South Korea	2,259	2,322	2,328	2,348	2,473	2,605	2,630	2,567	2,546	2,413
Taiwan	955	945	979	1,019	1,043	1,048	1,035	1,038	987	948
Thailand	1,169	1,233	1,320	1,329	1,362	1,392	1,418	1,457	1,462	1,350
Other	3,405	3,455	3,450	3,523	3,795	4,023	4,291	4,255	4,198	3,760
OECD	46,604	46,112	46,162	45,890	46,641	47,063	47,675	47,994	47,695	42,059
Non-OECD	42,510	44,157	45,774	47,401	48,869	49,148	50,538	51,263	52,030	48,994
World	89,114	90,269	91,936	93,291	95,510	96,211	98,213	99,257	99,725	91,053

Note: Liquids final consumption including bunker fuel.

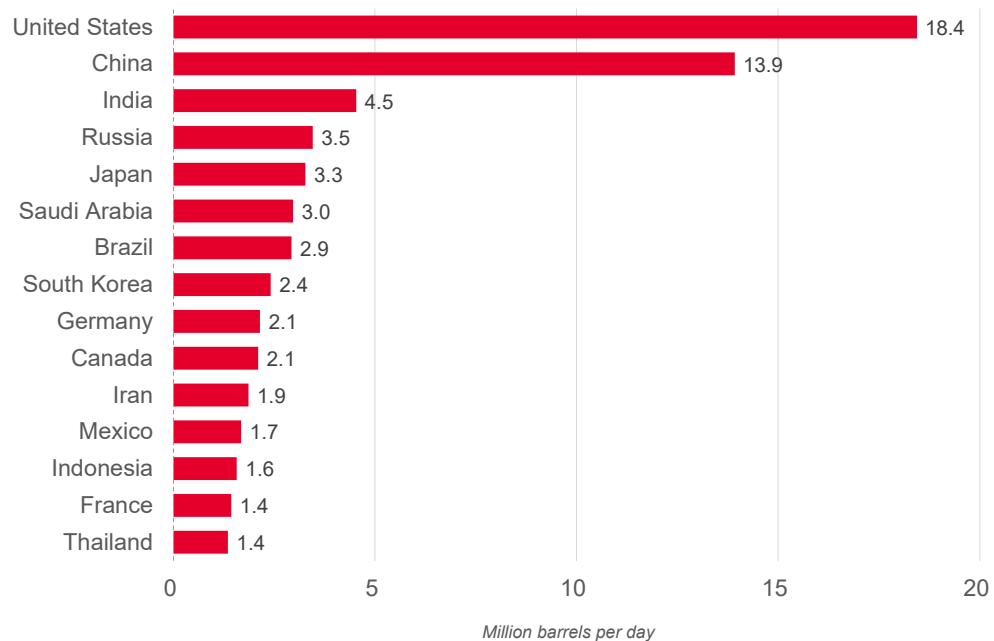
Top 15 Countries - Oil Proved Reserves, 2020



Top 15 Countries - Oil Production, 2020



Top 15 Countries - Oil Final Consumption, 2020





Natural Gas

Natural Gas Proved Reserves (Tcm)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	11.2	10.6	11.4	12.2	10.7	10.9	14.1	15.0	15.0	15.3
Canada	1.8	1.9	1.9	1.9	2.1	2.0	2.0	1.9	2.0	2.2
Mexico	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
United States	9.1	8.4	9.2	10.0	8.3	8.7	11.9	12.9	12.9	12.9
South and Central America	8.1	8.3	8.2	8.2	8.3	8.3	8.1	8.0	8.0	8.0
Argentina	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
Brazil	0.5	0.5	0.5	0.5	0.4	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	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Peru	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Trinidad & Tobago	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Venezuela	6.1	6.2	6.2	6.2	6.3	6.4	6.3	6.3	6.3	6.3
Other	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Europa	3.9	3.6	3.5	3.3	3.2	3.0	2.9	2.4	2.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Italy	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Netherlands	1.1	0.8	0.8	0.7	0.7	0.7	0.6	0.2	0.2	0.2
Norway	2.1	2.1	2.0	1.9	1.8	1.8	1.7	1.6	1.5	1.5
Poland	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Romania	0.1	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
EU	1.8	1.5	1.4	1.3	1.3	1.2	1.2	0.7	0.7	0.7
Other	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Former Soviet Union	59.0	59.6	59.8	60.3	60.1	60.6	64.0	64.6	65.3	65.1
Azerbaijan	1.0	1.0	1.0	1.3	1.3	1.3	1.3	2.1	2.8	2.8
Kazakhstan	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7
Russia	34.5	34.6	34.9	35.0	35.0	34.8	38.3	38.0	38.0	37.8
Turkmenistan	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
Ukraine	0.7	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1
Uzbekistan	1.3	1.3	1.2	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	77.8	77.4	77.7	77.6	77.0	77.6	75.3	75.6	75.6	75.6
Iran	31.8	31.9	32.1	32.1	31.6	31.8	31.9	32.0	32.0	32.0
Iraq	3.4	3.0	3.0	3.0	3.0	3.6	3.6	3.5	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	25.8	25.5	25.4	25.1	24.9	24.7	24.7	24.7	24.7
Saudi Arabia	7.6	7.7	7.8	7.9	8.0	8.0	5.7	5.9	6.0	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	1.4	1.6	1.5	1.5	1.5	1.8	1.8	1.7	1.7
Africa	14.5	14.2	13.9	14.5	14.3	14.9	15.0	15.1	15.3	13.3
Algeria	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.3
Angola	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Egypt	2.1	2.0	1.8	2.1	2.0	2.1	2.1	2.1	2.1	2.1
Libya	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Nigeria	4.9	4.9	4.9	5.1	5.0	5.2	5.3	5.4	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	1.3	1.3	1.3	1.3	1.2	1.4	1.3	1.4	1.6	1.6
Asia-Pacific	13.8	13.9	14.3	14.1	14.7	16.2	16.7	16.9	17.7	17.7
Australia	2.8	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
China	2.9	3.1	3.4	3.6	4.7	5.5	6.1	6.4	8.4	8.4
India	1.2	1.3	1.3	1.4	1.2	1.2	1.2	1.3	1.3	1.3
Indonesia	3.0	3.0	2.9	2.9	2.8	2.9	2.9	2.8	1.4	1.4
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaysia	1.1	1.0	1.0	1.1	1.0	0.9	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Other	2.4	2.3	2.5	2.4	2.3	3.0	2.9	2.9	2.9	2.9
OECD	18.4	17.5	18.2	18.3	16.7	16.8	20.2	20.5	20.5	20.3
Non-OECD	169.9	170.1	170.7	171.9	171.6	174.6	176.0	177.0	178.7	176.9
World	188.3	187.6	188.9	190.2	188.2	191.5	196.2	197.5	199.2	197.1

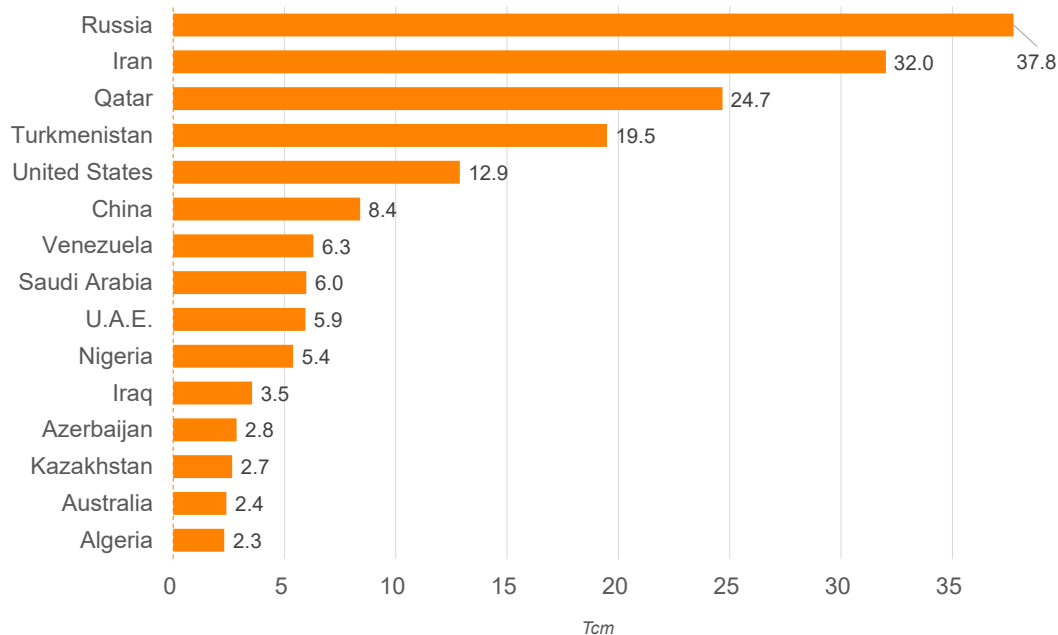
Note: Proved reserves of natural gas on 31/12.

Natural Gas Production (Bcm)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	855.5	884.1	888.9	942.3	973.1	968.9	985.9	1,080.3	1,163.8	1,165.9
Canada	157.7	156.3	157.5	164.1	165.0	177.0	181.1	183.2	176.1	172.0
Mexico	49.0	47.0	45.8	44.8	41.6	36.7	31.6	30.6	29.2	34.0
United States	648.8	680.8	685.7	733.4	766.5	755.3	773.3	866.5	958.5	959.8
South and Central America	215.1	221.1	224.8	226.2	221.3	214.1	209.4	204.3	201.0	190.4
Argentina	39.8	40.8	38.8	37.9	39.9	41.0	41.7	42.7	44.8	41.1
Brazil	17.2	19.7	21.8	23.4	24.1	24.4	27.5	24.8	25.9	23.8
Chile	1.5	1.2	1.0	0.8	1.0	1.2	1.2	1.2	1.5	1.4
Colombia	12.3	12.6	15.3	14.8	14.0	12.9	13.2	13.8	12.9	13.3
Peru	12.2	12.4	12.9	13.6	13.1	14.6	12.9	12.7	13.2	12.1
Trinidad & Tobago	40.8	41.0	41.2	41.0	38.2	33.5	33.4	36.0	35.6	32.8
Venezuela	22.2	23.3	22.5	22.6	23.0	24.5	24.0	23.7	19.6	18.8
Other	69.2	70.0	71.4	72.1	68.0	62.2	55.5	49.4	47.5	47.0
Europa	292.4	294.4	286.9	269.2	260.6	259.5	261.0	246.3	231.6	215.6
Czech Republic	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
France	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Germany	14.8	13.1	12.2	9.5	8.7	9.0	8.2	6.5	6.6	5.6
Italy	8.4	8.6	7.7	7.1	6.8	5.8	5.5	5.4	4.9	4.1
Netherlands	83.4	82.1	86.9	72.5	55.0	53.1	46.2	38.8	33.7	24.2
Norway	105.8	119.2	113.2	112.9	121.3	120.6	128.2	125.8	118.8	115.9
Poland	6.2	6.3	6.2	6.1	6.1	5.8	5.7	5.7	5.6	5.5
Romania	10.9	10.9	10.9	11.1	11.1	9.8	10.6	10.3	10.0	9.0
Spain	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
Turkey	0.8	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4
United Kingdom	46.4	39.6	37.4	38.8	40.5	41.7	42.1	40.8	39.7	39.6
EU	139.0	134.4	135.3	116.5	97.8	96.3	89.8	78.8	70.9	55.8
Other	14.8	13.1	11.3	10.6	10.4	13.0	13.7	12.3	11.6	11.0
Former Soviet Union	877.7	868.4	904.0	871.0	871.2	873.4	935.7	987.6	1,007.8	949.8
Azerbaijan	16.3	17.7	18.3	19.3	19.2	18.7	18.2	19.2	24.5	26.1
Kazakhstan	28.5	30.7	33.0	33.6	37.6	37.7	42.7	44.1	44.7	41.7
Russia	672.8	658.1	674.5	646.5	638.0	644.2	695.1	738.2	750.8	705.2
Turkmenistan	66.2	69.1	78.4	80.1	83.7	79.8	80.5	84.4	86.7	82.5
Ukraine	20.3	20.1	21.0	19.7	19.5	19.7	20.2	20.5	20.2	19.7
Uzbekistan	63.0	61.5	58.3	54.2	54.6	56.1	56.6	61.6	60.6	55.7
Other	10.5	11.2	20.6	17.7	18.5	17.2	22.4	19.7	20.3	18.9
Middle East	493.6	515.8	547.0	557.6	577.1	600.7	627.7	641.4	657.9	669.0
Iran	150.4	156.4	156.7	174.6	184.1	199.8	215.7	225.3	231.7	241.2
Iraq	7.4	7.0	7.0	6.8	6.9	7.6	8.7	11.8	15.2	14.8
Kuwait	13.5	15.5	16.3	15.0	16.9	17.3	17.1	17.7	19.4	17.9
Qatar	145.3	157.1	164.2	161.6	165.0	167.1	166.5	165.6	167.6	168.7
Saudi Arabia	74.7	81.1	82.0	85.1	87.3	90.8	95.5	96.8	96.8	97.4
United Arab Emirates	52.3	54.3	54.6	54.2	60.2	61.1	61.0	61.6	62.5	59.2
Other	49.9	44.5	66.2	60.2	56.7	56.9	63.2	62.6	64.8	69.8
Africa	203.4	212.1	199.3	204.2	202.7	215.2	237.7	250.0	256.8	251.0
Algeria	0.8	0.8	0.9	0.7	0.8	1.7	5.8	6.2	6.8	6.8
Angola	81.8	85.3	81.0	82.6	84.0	94.7	96.2	97.2	90.5	92.3
Egypt	56.4	54.1	48.1	43.1	38.3	42.6	53.0	62.1	68.9	62.0
Libya	7.9	12.2	12.8	16.5	15.5	15.6	14.3	13.9	15.8	14.6
Nigeria	38.3	41.2	37.2	42.4	43.7	40.3	45.1	46.7	47.2	47.4
South Africa	1.4	1.2	1.3	1.0	1.2	1.1	0.9	1.0	1.2	1.0
Other	16.9	17.3	18.0	17.8	19.3	19.2	22.5	22.9	26.5	26.9
Asia-Pacific	485.9	483.3	508.0	526.1	531.5	545.3	570.4	598.3	640.2	641.5
Australia	56.4	54.0	63.0	64.8	68.1	81.4	103.6	117.9	142.4	153.6
China	105.3	110.6	120.9	130.2	134.6	136.9	148.0	161.7	177.5	194.9
India	46.5	39.8	34.6	32.7	31.1	30.8	31.7	32.1	30.9	27.3
Indonesia	81.5	77.1	76.5	75.3	75.0	74.0	71.6	71.7	68.6	60.3
Japan	3.5	3.2	2.9	2.9	2.8	2.9	2.9	2.5	2.3	2.0
Malaysia	62.4	61.0	69.0	69.7	68.6	67.8	66.5	70.1	70.9	60.2
New Zealand	4.4	4.6	4.8	5.2	5.0	5.1	5.0	4.4	4.7	4.4
South Korea	0.5	0.4	0.5	0.3	0.2	0.2	0.3	0.3	0.2	0.2
Thailand	28.1	33.5	36.3	37.0	33.0	32.3	30.2	29.2	29.8	26.8
Other	97.4	99.0	99.7	108.0	113.2	113.9	110.4	108.3	112.8	111.7
OECD	1,227.3	1,252.6	1,272.6	1,306.9	1,336.3	1,343.9	1,388.8	1,474.9	1,568.3	1,593.6
Non-OECD	2,196.3	2,226.6	2,286.3	2,289.8	2,301.2	2,333.2	2,439.1	2,533.4	2,590.7	2,489.6
World	3,423.6	3,479.2	3,559.0	3,596.6	3,637.5	3,677.1	3,827.9	4,008.3	4,159.0	4,083.2

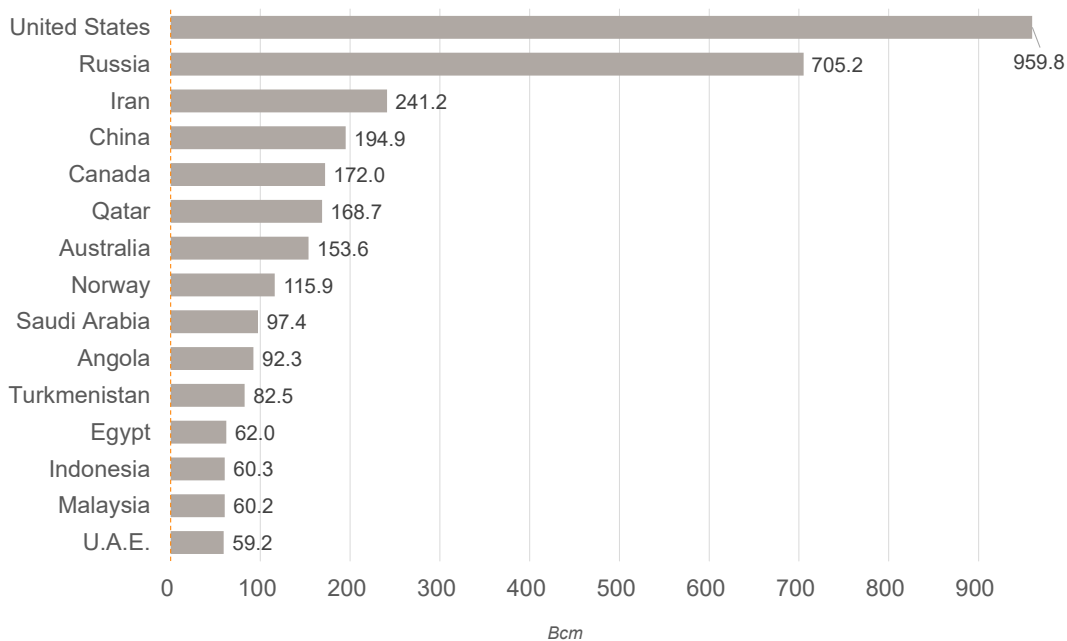
Natural Gas Demand (Bcm)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	873.2	911.2	923.6	941.0	959.8	969.0	965.7	1,062.4	1,092.8	1,083.3
Canada	107.5	106.6	111.4	115.6	114.9	112.1	114.4	121.8	122.9	117.2
Mexico	72.7	76.2	72.9	75.0	77.8	80.3	81.5	84.6	87.3	95.3
United States	693.0	728.3	739.4	750.5	767.1	776.7	769.8	856.0	882.6	870.8
South and Central America	218.0	229.1	231.4	238.8	243.1	238.6	239.7	235.7	235.1	220.7
Argentina	46.4	48.9	49.4	49.5	50.7	51.2	51.9	52.0	51.7	48.7
Brazil	28.2	33.1	38.8	42.4	42.1	36.1	38.5	35.5	35.8	33.1
Chile	5.7	4.9	4.9	4.1	4.4	4.8	5.0	5.3	5.9	5.0
Colombia	10.0	10.4	10.7	11.0	11.3	11.8	10.8	11.3	10.7	11.1
Peru	6.7	6.9	6.5	8.1	7.9	8.3	7.3	7.5	7.6	7.1
Trinidad & Tobago	21.5	20.7	21.0	20.6	20.3	18.6	18.1	18.5	17.6	15.1
Venezuela	21.3	22.9	22.5	22.3	23.0	22.7	22.8	23.8	21.2	18.0
Other	78.2	81.4	77.7	80.8	83.4	85.0	85.3	81.9	84.6	82.6
Europe	553.4	537.3	528.4	482.8	499.9	527.2	550.1	541.1	547.4	531.4
Belgium	21.4	18.7	18.7	16.5	18.5	17.7	18.1	19.2	19.3	19.4
Czech Republic	8.4	8.4	8.5	7.5	7.9	8.5	8.7	8.3	8.7	8.8
Finland	4.1	3.7	3.5	3.1	2.7	2.5	2.4	2.6	2.5	2.4
France	41.2	42.6	43.2	36.3	39.0	42.7	42.9	41.0	41.8	38.7
Germany	85.8	86.0	87.7	79.2	81.3	89.3	90.9	91.9	94.9	92.6
Italy	77.9	74.9	70.1	61.9	67.5	70.9	75.2	72.7	74.4	71.1
Netherlands	49.2	47.2	47.0	41.5	41.0	42.1	43.5	42.6	44.4	43.5
Norway	6.2	5.8	5.8	6.2	6.4	6.2	6.4	6.5	6.7	6.1
Poland	17.2	18.1	18.2	17.7	18.2	19.0	20.1	20.3	20.9	21.5
Portugal	5.2	4.5	4.3	4.1	4.7	5.0	6.3	5.7	6.0	6.0
Romania	13.9	13.5	12.6	12.0	11.3	11.3	11.9	11.8	11.0	11.6
Spain	33.3	32.4	29.6	27.2	28.2	28.8	31.1	31.0	35.3	31.8
Sweden	1.3	1.2	1.1	0.9	1.0	0.9	1.1	1.2	1.2	1.3
Turkey	44.7	45.3	45.9	48.7	48.1	46.5	54.0	49.7	44.8	47.9
United Kingdom	82.7	77.6	77.1	70.7	72.7	81.4	79.3	80.0	77.8	72.9
EU	413.2	402.1	392.7	351.1	366.3	386.2	403.0	397.8	411.3	398.1
Other	60.9	57.4	55.2	49.3	51.3	54.4	58.1	56.6	57.7	55.7
Former Soviet Union	683.2	665.9	661.5	638.0	602.6	602.8	624.9	656.5	646.4	628.9
Azerbaijan	9.9	10.7	10.7	11.5	11.4	11.2	10.8	11.0	11.8	11.9
Kazakhstan	25.4	25.2	27.0	15.2	14.8	15.1	16.3	16.5	16.2	16.6
Russia	476.2	471.1	465.9	464.6	445.4	444.1	463.0	498.5	501.1	484.5
Turkmenistan	23.4	24.2	24.8	25.2	26.2	26.2	26.2	26.2	26.9	26.3
Ukraine	58.4	53.5	49.5	41.0	33.1	32.2	31.0	31.1	28.7	29.2
Uzbekistan	58.3	50.4	49.1	45.7	43.8	46.1	48.7	47.6	49.9	48.4
Other	31.6	31.0	34.3	34.8	27.9	28.0	28.8	25.6	11.8	12.0
Middle East	399.5	418.4	433.0	459.8	486.7	505.2	524.4	530.5	540.8	545.7
Iran	152.8	151.8	152.9	172.5	184.1	196.7	206.5	208.1	211.7	221.6
Iraq	7.4	7.0	7.0	6.8	6.9	7.6	11.0	13.8	17.4	18.6
Kuwait	17.0	18.2	18.5	18.3	20.9	22.3	22.6	22.7	24.6	21.5
Qatar	32.1	40.5	44.3	48.2	49.9	48.5	46.9	44.1	44.5	43.4
Saudi Arabia	74.7	81.1	82.0	85.1	87.3	90.8	95.5	96.8	96.8	97.4
United Arab Emirates	63.0	66.2	67.5	66.3	74.2	74.7	75.4	73.9	75.5	73.5
Other	52.4	53.6	60.9	62.5	63.3	64.6	66.4	71.1	70.2	69.7
Africa	117.6	123.7	123.0	128.0	136.7	142.2	156.2	167.8	171.5	172.5
Algeria	29.6	33.8	34.6	37.8	40.6	40.7	42.1	45.7	47.8	52.8
Angola	0.8	0.8	0.4	0.3	0.8	0.8	0.8	0.9	0.9	0.9
Egypt	47.8	47.9	46.0	42.7	45.0	50.8	60.6	61.8	62.3	60.1
Libya	5.4	5.7	7.1	10.0	10.0	10.8	11.8	12.1	12.9	12.1
Nigeria	15.0	15.4	15.2	17.1	17.2	16.5	17.3	18.4	18.1	17.7
South Africa	4.7	5.0	5.0	4.8	5.3	5.4	5.2	4.9	4.9	4.1
Other	14.2	15.1	14.8	15.3	17.8	17.2	18.3	24.1	24.6	24.8
Asia-Pacific	627.7	657.3	674.3	694.3	700.1	728.7	756.9	823.2	848.3	852.3
Australia	32.4	33.9	36.0	36.7	37.1	38.1	39.2	40.5	41.4	40.1
China	131.3	147.2	167.5	184.3	191.8	207.9	237.8	279.6	303.7	325.5
India	59.8	55.3	51.5	51.6	54.6	58.4	61.6	62.3	63.5	62.6
Indonesia	41.0	40.8	41.9	42.9	42.9	41.6	39.8	44.5	44.5	40.5
Japan	129.7	134.7	118.4	119.3	113.6	115.8	113.2	108.2	103.1	99.9
Malaysia	37.3	38.1	45.0	45.4	44.4	42.3	38.1	45.9	47.1	40.2
New Zealand	4.3	4.5	4.8	5.4	5.1	5.1	5.2	4.6	4.9	4.6
South Korea	46.5	50.2	52.6	47.4	44.3	47.0	48.8	54.1	52.5	53.0
Thailand	39.4	45.0	48.4	48.4	48.1	47.2	44.5	45.7	46.4	42.6
Other	106.1	107.5	108.3	112.9	118.1	125.3	128.8	137.8	141.2	143.3
OECD	1,662.6	1,694.6	1,693.5	1,665.7	1,692.0	1,735.9	1,755.8	1,847.3	1,874.3	1,863.4
Non-OECD	1,810.0	1,848.4	1,881.8	1,917.0	1,936.9	1,977.7	2,062.0	2,169.9	2,208.1	2,171.4
World	3,472.7	3,542.9	3,575.3	3,582.7	3,628.9	3,713.7	3,817.8	4,017.2	4,082.4	4,034.8

Note: Natural gas primary demand including power generation feedstock.

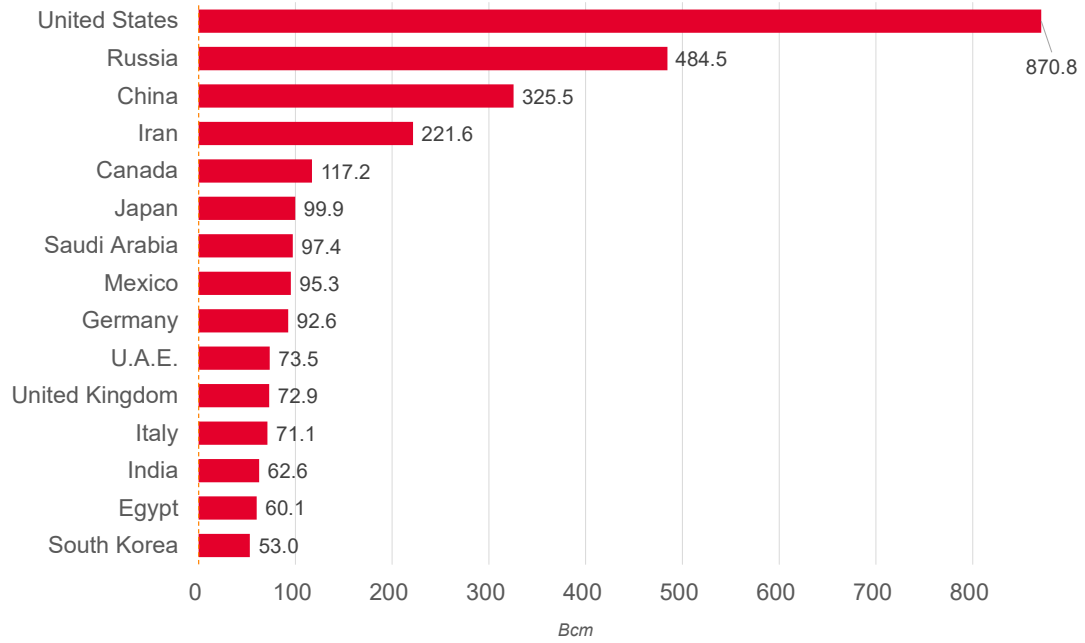
Top 15 Countries - Natural Gas Proved Reserves, 2020



Top 15 Countries - Natural Gas Production, 2020



Top 15 Countries - Natural Gas Demand, 2020



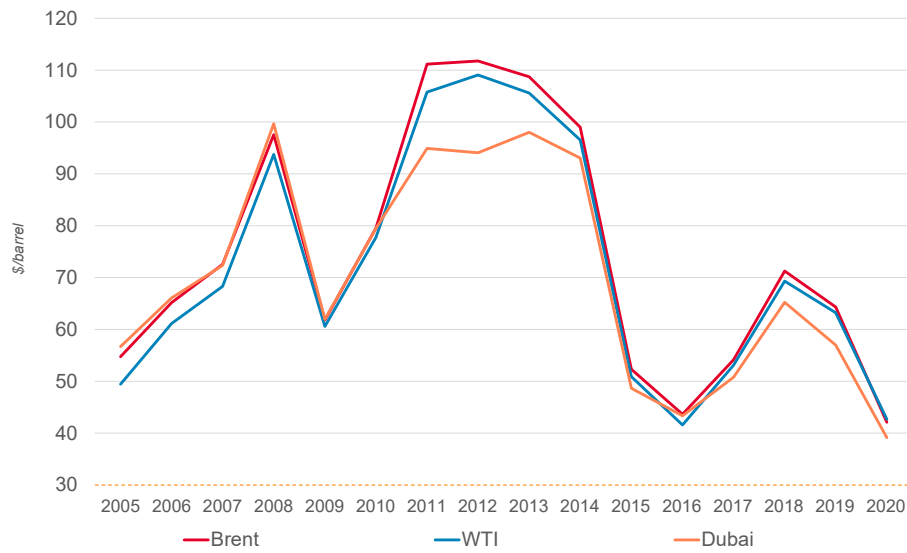


Oil and
Natural Gas
prices

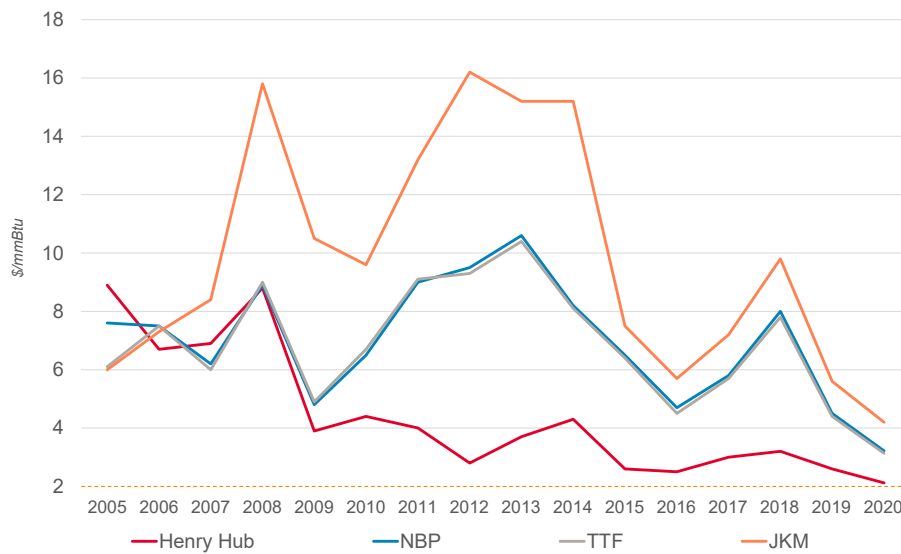
Oil and Natural Gas Prices	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Crude oil (\$ per barrel)										
Brent	111.2	111.8	108.7	99.0	52.3	43.7	54.2	71.3	64.3	42.1
WTI	105.7	109.1	105.6	96.5	50.9	41.6	53.1	69.3	63.2	42.7
Dubai	94.9	94.1	98.0	93.0	48.7	43.3	50.8	65.2	57.0	39.2
Natural gas (dollar per million Btu)										
Henry Hub (HH)	4.0	2.8	3.7	4.3	2.6	2.5	3.0	3.2	2.6	2.1
National Balancing Point (NBP)	9.0	9.5	10.6	8.2	6.5	4.7	5.8	8.0	4.5	3.2
Japan Korea Marker (JKM)	13.2	16.2	15.2	15.2	7.5	5.7	7.2	9.8	5.6	4.2
Title Transfer Facility (TTF)	9.1	9.3	10.4	8.1	6.4	4.5	5.7	7.8	4.4	3.1

Source: Thomson Reuters

Crude Oil Price Benchmarks



Natural Gas Price Benchmarks





Power
Generation

Total Power Generation (TWh)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	5,286	5,230	5,261	5,301	5,286	5,306	5,271	5,445	5,385	5,233
Canada	633	632	658	659	658	664	663	654	653	648
Mexico	303	307	297	301	311	321	322	336	331	322
United States	4,349	4,291	4,306	4,340	4,317	4,322	4,286	4,455	4,401	4,262
South and Central America	1,143	1,190	1,236	1,231	1,272	1,274	1,280	1,298	1,317	1,293
Argentina	130	136	139	139	145	147	146	147	140	143
Brazil	532	553	571	591	582	579	589	601	626	614
Chile	66	70	73	71	75	79	79	82	84	84
Colombia	62	64	74	71	79	77	79	80	82	76
Peru	39	40	44	46	48	52	53	55	57	n.d.
Trinidad & Tobago	9	9	10	10	10	10	10	9	10	n.d.
Venezuela	118	122	123	103	123	108	104	100	96	n.d.
Other	188	197	202	201	209	222	220	224	222	n.d.
Europe	3,822	3,848	3,823	3,752	3,814	3,853	3,901	3,901	3,849	3,717
Belgium	90	83	83	73	70	86	87	75	94	91
Czech Republic	87	87	87	86	84	83	87	88	87	81
Finland	74	70	71	68	69	69	68	70	69	68
France	574	573	582	573	580	564	562	582	571	533
Germany	613	628	639	628	648	650	654	643	612	572
Italy	303	299	290	280	283	290	296	290	292	280
Netherlands	114	103	102	103	110	115	117	114	121	123
Norway	128	148	134	142	145	149	149	147	135	154
Poland	164	162	165	159	165	167	170	170	164	158
Portugal	52	47	52	53	52	60	59	60	53	53
Romania	62	59	59	66	66	65	64	65	60	56
Spain	294	298	286	279	281	275	276	274	274	264
Sweden	150	167	153	154	162	156	164	163	169	164
Turkey	229	239	240	252	262	274	297	305	304	305
United Kingdom	368	364	358	338	340	340	339	333	325	313
EU	3,310	3,303	3,279	3,199	3,247	3,268	3,299	3,279	3,241	3,095
Other	520	521	522	500	498	510	511	521	520	500
Former Soviet Union	1,514	1,543	1,538	1,532	1,517	1,546	1,554	1,593	1,599	1,557
Azerbaijan	20	23	23	25	25	25	24	25	26	n.d.
Kazakhstan	87	93	103	95	92	95	103	108	107	110
Russia	1,055	1,071	1,059	1,064	1,068	1,091	1,094	1,115	1,125	1,092
Ukraine	195	199	194	183	164	165	156	160	152	143
Uzbekistan	53	53	55	56	58	59	61	63	63	65
Other	104	104	104	109	111	111	115	122	126	n.d.
Middle East	916	979	1,012	1,082	1,133	1,171	1,224	1,228	1,247	1,250
Iran	240	254	262	275	281	289	308	310	314	322
Iraq	54	46	58	68	69	80	87	83	97	96
Kuwait	57	61	61	65	68	70	73	74	75	75
Qatar	31	35	35	39	41	42	46	48	49	49
Saudi Arabia	250	289	302	336	359	368	378	378	367	363
United Arab Emirates	99	106	110	117	127	130	135	136	138	137
Other	185	188	183	182	187	192	198	200	207	207
Africa	685	713	733	762	786	796	827	854	872	850
Algeria	56	62	65	71	75	78	83	84	90	88
Angola	6	6	8	9	10	10	11	12	12	n.d.
Egypt	144	150	154	161	173	177	185	194	195	193
Libya	26	34	38	38	38	31	33	34	35	n.d.
Nigeria	27	29	29	32	32	34	34	36	38	40
South Africa	263	258	256	253	250	253	255	256	252	240
Other	164	174	184	198	209	213	225	237	250	n.d.
Asia-Pacific	8,907	9,292	9,875	10,250	10,540	11,114	11,676	12,419	12,794	13,007
Australia	254	251	249	247	251	257	258	261	264	257
China	4,716	4,994	5,447	5,679	5,860	6,218	6,635	7,182	7,519	7,798
India	1,060	1,115	1,184	1,287	1,358	1,449	1,519	1,583	1,597	1,557
Indonesia	183	200	216	228	234	248	255	284	295	291
Japan	1,111	1,099	1,104	1,076	1,059	1,062	1,071	1,058	1,015	1,011
Malaysia	129	134	138	147	150	157	165	170	176	168
New Zealand	44	44	43	44	44	44	44	44	45	44
South Korea	523	535	542	551	553	563	567	590	582	571
Taiwan	252	250	252	260	258	264	270	276	274	280
Thailand	156	167	170	172	176	188	182	182	192	181
Other	478	503	527	579	597	666	709	788	834	849
OECD	10,950	10,933	10,942	10,891	10,929	11,011	11,047	11,227	11,085	10,786
Non-OECD	11,323	11,861	12,536	13,019	13,419	14,049	14,686	15,511	15,980	16,119
World	22,273	22,795	23,478	23,910	24,348	25,061	25,734	26,738	27,063	26,906

Renewables in Power Generation (%)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	18.8%	18.7%	19.4%	19.8%	20.0%	21.5%	23.4%	23.0%	23.6%	25.8%
Canada	62.5%	63.6%	64.1%	63.2%	64.0%	64.8%	66.5%	66.3%	66.0%	67.7%
Mexico	14.9%	13.8%	13.3%	17.5%	15.3%	15.3%	16.0%	16.3%	17.0%	20.5%
United States	12.7%	12.4%	13.0%	13.4%	13.6%	15.3%	17.3%	17.2%	17.9%	19.8%
South and Central America	69.1%	65.9%	63.0%	61.1%	60.6%	63.4%	65.1%	66.8%	66.5%	69.7%
Argentina	25.6%	23.5%	25.6%	25.1%	23.8%	21.7%	23.5%	24.1%	24.0%	22.8%
Brazil	87.2%	82.5%	76.8%	73.2%	74.1%	80.4%	79.2%	82.3%	82.2%	84.1%
Chile	39.6%	36.4%	35.7%	42.9%	43.6%	43.3%	43.9%	46.3%	46.0%	48.2%
Colombia	81.9%	78.1%	69.4%	69.4%	63.6%	65.9%	79.3%	76.9%	72.6%	64.8%
Peru	56.8%	55.3%	53.9%	52.4%	52.7%	50.4%	58.6%	60.8%	60.2%	n.d.
Trinidad & Tobago	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	n.d.
Venezuela	70.9%	67.4%	67.9%	62.3%	61.1%	58.4%	58.4%	58.4%	58.4%	n.d.
Europe	25.2%	28.4%	30.9%	32.3%	33.6%	34.0%	33.9%	36.3%	38.3%	42.8%
Belgium	10.6%	14.2%	15.6%	18.5%	22.4%	18.0%	19.6%	24.2%	21.1%	27.2%
Czech Republic	9.1%	10.1%	11.8%	11.9%	12.8%	12.7%	12.4%	11.9%	12.9%	14.3%
Finland	32.9%	40.6%	36.0%	38.6%	44.5%	44.2%	46.6%	45.7%	45.8%	n.d.
France	12.4%	15.7%	17.9%	17.4%	16.7%	18.4%	17.4%	20.4%	20.6%	24.3%
Germany	21.2%	23.7%	24.8%	26.8%	30.0%	30.0%	34.0%	35.9%	40.5%	44.5%
Italy	28.1%	31.5%	39.3%	43.7%	39.0%	37.9%	35.7%	40.1%	39.9%	42.0%
Netherlands	10.8%	12.1%	11.9%	11.3%	12.4%	12.8%	14.9%	16.5%	18.0%	24.8%
Norway	96.6%	98.0%	97.7%	97.7%	97.7%	97.8%	97.8%	97.8%	97.7%	98.4%
Poland	8.3%	10.7%	10.7%	12.8%	14.1%	14.0%	14.4%	13.0%	14.5%	16.7%
Portugal	47.1%	43.8%	59.2%	61.4%	48.7%	55.5%	40.9%	51.4%	54.1%	59.7%
Romania	26.6%	25.7%	34.8%	42.0%	40.1%	42.2%	38.3%	41.0%	41.8%	44.2%
Spain	30.6%	30.4%	40.5%	40.9%	35.7%	39.3%	32.9%	38.8%	37.6%	43.9%
Sweden	56.0%	59.1%	54.1%	55.9%	63.3%	57.2%	57.9%	55.8%	58.5%	68.4%
Turkey	25.3%	27.2%	28.8%	20.9%	32.0%	32.9%	29.3%	32.1%	43.5%	41.6%
United Kingdom	10.4%	12.2%	15.7%	19.9%	25.6%	25.5%	30.3%	34.0%	37.8%	43.7%
EU	21.4%	24.2%	27.2%	29.2%	30.2%	30.2%	30.5%	33.0%	34.6%	39.3%
Former Soviet Union	15.6%	15.3%	16.6%	16.0%	15.6%	16.9%	17.2%	17.2%	17.4%	19.6%
Azerbaijan	13.2%	7.9%	6.7%	5.6%	7.0%	8.4%	7.8%	7.8%	6.9%	n.d.
Kazakhstan	9.1%	8.2%	7.5%	8.8%	10.4%	12.7%	11.3%	10.4%	11.0%	11.7%
Russia	15.9%	15.7%	17.3%	16.7%	16.0%	17.2%	17.2%	17.4%	17.9%	20.3%
Ukraine	5.7%	5.9%	8.1%	6.0%	5.3%	6.6%	8.0%	9.1%	7.1%	8.4%
Uzbekistan	10.8%	12.6%	10.4%	10.9%	12.3%	12.4%	13.7%	9.4%	10.3%	10.3%
Middle East	2.2%	2.3%	2.4%	2.0%	1.7%	2.1%	1.9%	2.1%	3.7%	3.1%
Iran	5.1%	5.0%	5.7%	5.2%	5.1%	5.8%	5.0%	5.3%	9.9%	6.9%
Iraq	6.3%	9.5%	8.2%	4.4%	3.8%	4.3%	2.6%	2.3%	2.6%	2.6%
Kuwait	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.2%	0.3%
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%	0.2%	0.2%
United Arab Emirates	0.0%	0.0%	0.1%	0.3%	0.2%	0.2%	0.5%	1.0%	2.7%	3.6%
Africa	17.5%	17.0%	17.4%	18.3%	17.9%	18.1%	18.7%	19.4%	20.1%	21.1%
Algeria	0.9%	1.0%	0.5%	0.4%	0.3%	0.4%	0.8%	0.9%	0.9%	1.0%
Angola	70.9%	60.8%	58.0%	53.2%	53.2%	56.1%	71.4%	74.4%	74.4%	n.d.
Egypt	10.2%	9.7%	9.6%	9.7%	9.1%	8.8%	8.4%	8.1%	9.0%	10.2%
Libya	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Nigeria	21.8%	19.8%	18.5%	16.6%	17.7%	24.3%	22.6%	17.9%	20.4%	19.2%
South Africa	2.1%	1.8%	1.7%	2.6%	3.5%	4.4%	5.7%	6.6%	6.8%	7.6%
Asia-Pacific	14.8%	16.4%	17.1%	18.3%	19.0%	19.9%	20.5%	21.1%	22.2%	23.6%
Australia	10.4%	10.5%	13.2%	14.6%	13.3%	14.6%	15.7%	17.1%	19.7%	23.0%
China	17.0%	20.1%	20.5%	22.8%	24.1%	25.3%	25.6%	26.0%	27.0%	28.4%
India	17.5%	16.0%	17.6%	16.4%	15.3%	17.1%	17.5%	18.9%	21.1%	22.5%
Indonesia	12.0%	11.2%	12.3%	11.5%	10.7%	12.6%	12.5%	17.3%	16.5%	18.3%
Japan	10.9%	10.5%	11.3%	12.8%	14.7%	14.8%	16.5%	17.4%	18.3%	20.2%
Malaysia	6.7%	7.4%	8.6%	9.7%	10.0%	13.5%	16.9%	16.6%	16.0%	17.2%
New Zealand	76.1%	71.8%	74.2%	79.1%	80.1%	84.2%	81.1%	83.4%	81.7%	80.0%
South Korea	2.0%	2.0%	2.4%	2.5%	2.6%	3.5%	4.0%	4.6%	5.3%	7.1%
Taiwan	4.1%	4.8%	4.9%	4.4%	4.6%	5.4%	5.2%	5.2%	6.1%	6.0%
Thailand	8.0%	8.3%	8.1%	8.4%	7.9%	13.5%	14.2%	16.5%	16.4%	15.4%
OECD	19.4%	20.4%	21.6%	22.4%	23.2%	24.1%	25.3%	26.0%	27.3%	30.1%
Non-OECD	21.0%	21.8%	22.2%	22.6%	22.9%	24.1%	24.4%	25.1%	25.9%	26.9%
World	20.2%	21.1%	21.9%	22.5%	23.0%	24.1%	24.8%	25.5%	26.4%	28.2%



CO₂ Emissions
from Fossil Fuels

Total CO₂ Emissions (Million tonnes of carbon dioxide)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	6,525	6,344	6,455	6,491	6,360	6,252	6,201	6,386	6,237	5,541
Canada	611	617	624	623	622	612	623	634	631	562
Mexico	499	498	490	478	493	502	494	497	478	401
United States	5,415	5,229	5,342	5,389	5,245	5,138	5,084	5,255	5,127	4,579
South and Central America	1,264	1,318	1,372	1,400	1,382	1,341	1,312	1,281	1,271	1,155
Argentina	182	183	189	185	192	189	185	182	204	177
Brazil	463	499	529	558	524	485	492	464	466	435
Chile	80	82	85	78	83	90	91	90	89	83
Colombia	72	72	80	82	84	87	79	83	87	84
Peru	49	49	50	53	54	57	54	55	54	n.d.
Trinidad & Tobago	47	44	43	42	42	39	38	39	37	n.d.
Venezuela	178	194	196	195	183	170	156	143	127	n.d.
Other	195	196	201	206	220	223	215	226	240	n.d.
Europe	4,393	4,346	4,248	4,075	4,136	4,143	4,203	4,131	3,961	3,542
Belgium	119	111	113	106	113	109	109	111	112	103
Czech Republic	119	116	111	108	109	110	112	111	106	92
Finland	60	54	55	51	47	51	48	50	45	n.d.
France	369	372	372	342	347	347	352	346	337	294
Germany	797	813	831	791	795	801	787	765	715	650
Italy	422	399	365	348	355	351	348	342	335	291
Netherlands	188	186	185	178	185	185	184	177	170	160
Norway	49	47	47	47	47	46	46	46	46	42
Poland	338	331	328	317	321	332	345	346	326	301
Portugal	53	51	51	50	54	53	57	53	49	43
Romania	93	89	78	78	78	76	79	80	77	71
Spain	292	286	259	258	273	265	281	275	258	208
Sweden	51	48	46	45	45	45	45	42	41	37
Turkey	337	350	341	363	375	398	438	434	423	401
United Kingdom	466	488	476	435	423	398	386	378	364	320
EU	3,858	3,808	3,717	3,538	3,579	3,559	3,580	3,514	3,354	2,974
Other	639	604	589	559	570	577	588	575	556	n.d.
Former Soviet Union	2,761	2,748	2,699	2,582	2,530	2,535	2,570	2,652	2,698	2,564
Azerbaijan	28	30	31	33	33	33	33	33	36	n.d.
Kazakhstan	259	261	279	232	222	240	243	237	236	234
Russia	1,849	1,842	1,789	1,769	1,773	1,752	1,802	1,869	1,919	1,807
Ukraine	337	329	315	266	225	225	203	216	201	195
Uzbekistan	128	116	117	109	104	110	115	115	119	114
Other	160	170	168	174	173	174	175	182	188	213
Middle East	1,826	1,921	1,956	2,027	2,049	2,068	2,097	2,085	2,120	2,074
Iran	607	618	638	662	650	655	678	690	695	694
Iraq	132	153	163	167	161	171	173	190	204	184
Kuwait	84	87	89	87	92	94	93	93	97	99
Qatar	76	86	88	95	98	99	102	105	107	105
Saudi Arabia	475	507	515	551	576	573	560	534	531	514
United Arab Emirates	170	180	188	188	200	207	216	207	206	198
Other	281	289	275	277	272	269	275	266	281	280
Africa	1,201	1,273	1,303	1,357	1,349	1,368	1,399	1,449	1,437	1,340
Algeria	119	130	133	144	152	150	150	160	165	150
Angola	39	39	42	44	44	44	39	39	41	n.d.
Egypt	218	229	225	227	234	245	252	260	266	253
Libya	40	54	57	67	60	57	64	65	67	n.d.
Nigeria	99	103	113	119	111	111	115	139	116	117
South Africa	429	445	456	467	443	444	452	449	437	408
Other	257	273	277	290	306	317	328	337	345	n.d.
Asia-Pacific	16,404	17,043	17,638	17,802	17,810	17,960	18,272	18,682	18,991	18,768
Australia	414	412	409	399	406	417	423	421	416	399
China	10,235	10,609	11,148	11,104	11,033	11,050	11,156	11,350	11,613	11,801
India	1,853	2,021	2,061	2,235	2,257	2,302	2,426	2,547	2,578	2,436
Indonesia	505	520	483	518	522	525	563	620	664	631
Japan	1,270	1,310	1,316	1,273	1,234	1,223	1,204	1,157	1,133	1,062
Malaysia	215	218	237	245	245	243	243	263	269	249
New Zealand	33	35	35	36	36	35	36	36	36	33
South Korea	675	681	680	676	690	708	717	719	656	614
Taiwan	267	262	265	273	272	276	283	279	268	264
Thailand	251	269	283	279	283	281	277	276	277	275
Other	685	706	722	763	831	900	942	1,014	1,081	1,002
OECD	13,156	13,002	13,030	12,838	12,747	12,668	12,667	12,738	12,329	11,104
Non-OECD	21,217	21,991	22,641	22,897	22,869	22,998	23,387	23,935	24,403	23,789
World	34,373	34,992	35,671	35,734	35,615	35,667	36,054	36,661	36,682	34,892

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)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	2,550	2,521	2,542	2,544	2,590	2,602	2,594	2,653	2,638	2,279
Canada	272	276	277	272	277	276	281	288	286	237
Mexico	261	263	259	247	245	254	247	246	227	187
United States	2,018	1,982	2,005	2,024	2,067	2,072	2,066	2,120	2,125	1,855
South and Central America	746	777	794	803	778	758	740	719	717	644
Argentina	77	76	79	75	79	78	73	69	67	56
Brazil	294	314	327	339	316	299	302	282	286	271
Chile	44	44	45	44	45	47	48	49	49	45
Colombia	34	35	37	37	39	42	38	40	41	34
Peru	27	26	27	26	28	30	30	31	30	n.d.
Trinidad & Tobago	4	4	4	4	4	4	4	3	4	n.d.
Venezuela	107	115	112	111	95	83	77	70	63	n.d.
Other	161	163	163	166	172	175	168	175	178	n.d.
Europe	1,597	1,552	1,519	1,499	1,541	1,561	1,588	1,568	1,570	1,391
Belgium	47	46	47	45	48	46	46	45	44	39
Czech Republic	21	21	20	21	21	21	22	22	23	21
Finland	24	23	23	21	21	23	22	22	21	n.d.
France	205	201	197	192	193	190	190	184	183	157
Germany	256	258	264	255	257	257	259	253	260	242
Italy	180	165	152	152	154	148	143	145	147	117
Netherlands	64	62	61	59	59	61	60	59	57	54
Norway	23	23	22	22	22	21	20	20	20	18
Poland	66	63	58	58	62	69	78	80	81	79
Portugal	28	25	25	25	25	25	25	25	26	23
Romania	24	25	23	24	24	25	27	28	27	26
Spain	150	138	133	132	139	142	144	145	146	118
Sweden	31	30	28	28	27	27	26	24	23	21
Turkey	74	77	81	84	96	104	120	116	112	109
United Kingdom	160	160	155	155	160	164	165	161	159	132
EU	1,446	1,399	1,361	1,342	1,372	1,384	1,396	1,381	1,386	1,214
Other	246	236	229	227	233	238	241	240	241	n.d.
Former Soviet Union	480	480	480	484	485	474	486	475	483	453
Azerbaijan	9	10	10	10	11	11	11	11	11	n.d.
Kazakhstan	36	33	47	33	43	47	45	42	42	41
Russia	339	338	327	348	343	323	341	330	333	310
Ukraine	38	37	36	31	29	31	29	29	31	31
Uzbekistan	11	10	11	10	10	11	11	12	12	11
Other	47	51	49	50	49	51	50	52	54	n.d.
Middle East	880	933	952	976	943	920	909	890	891	820
Iran	230	239	259	246	217	196	197	205	202	184
Iraq	99	115	124	129	118	125	119	128	132	113
Kuwait	49	50	50	48	48	47	46	46	46	42
Qatar	12	15	14	17	16	17	18	20	21	20
Saudi Arabia	311	330	335	365	387	376	357	330	327	309
United Arab Emirates	38	39	44	44	41	45	51	47	37	34
Other	141	145	126	126	115	114	120	115	125	118
Africa	459	491	524	543	549	549	548	570	556	499
Algeria	47	51	52	55	58	56	55	56	58	51
Angola	15	15	19	20	20	20	17	17	18	n.d.
Egypt	101	107	110	118	121	117	106	104	105	96
Libya	26	34	37	37	31	28	29	29	30	n.d.
Nigeria	40	43	54	60	54	57	57	73	56	55
South Africa	68	68	73	70	74	70	76	76	76	65
Other	163	172	179	183	192	202	209	214	214	n.d.
Asia-Pacific	3,063	3,205	3,268	3,284	3,416	3,484	3,578	3,620	3,696	3,572
Australia	129	131	137	135	135	135	138	141	140	133
China	1,082	1,146	1,206	1,230	1,316	1,346	1,387	1,428	1,511	1,505
India	428	456	463	488	534	567	596	604	623	555
Indonesia	215	237	231	234	221	210	232	246	240	230
Japan	514	524	501	459	440	424	411	386	366	334
Malaysia	76	73	84	88	82	80	82	80	81	66
New Zealand	18	18	18	18	19	19	20	20	21	19
South Korea	179	182	182	179	191	199	195	189	183	177
Taiwan	78	75	73	77	80	80	79	75	72	66
Thailand	98	105	108	108	108	112	113	112	112	113
Other	247	257	265	268	290	312	326	339	347	373
OECD	4,972	4,921	4,886	4,816	4,896	4,921	4,925	4,936	4,897	4,315
Non-OECD	4,804	5,037	5,192	5,316	5,404	5,428	5,520	5,560	5,665	5,343
World	9,776	9,957	10,078	10,133	10,301	10,349	10,444	10,496	10,551	9,658

Natural Gas CO₂ Emissions (Million tonnes of carbon dioxide)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	1,669	1,749	1,778	1,814	1,859	1,872	1,862	2,051	2,105	2,056
Canada	201	205	214	225	226	218	224	239	241	230
Mexico	145	152	147	145	151	156	159	165	167	151
United States	1,323	1,392	1,417	1,444	1,482	1,498	1,479	1,647	1,697	1,674
South and Central America	276	291	305	315	318	307	308	303	298	277
Argentina	90	93	95	95	97	97	98	98	98	92
Brazil	55	64	76	83	82	71	75	71	72	67
Chile	11	9	9	8	8	9	10	10	10	10
Colombia	17	18	19	19	20	21	19	20	19	20
Peru	15	16	15	18	18	19	17	17	17	n.d.
Trinidad & Tobago	33	31	32	31	31	29	27	28	27	n.d.
Venezuela	44	47	46	46	47	46	47	43	38	n.d.
Other	12	13	14	15	15	15	16	16	17	n.d.
Europe	1,050	1,020	1,004	914	953	1,007	1,051	1,034	1,050	1,015
Belgium	40	35	34	30	34	33	34	36	36	36
Czech Republic	17	16	17	15	16	17	17	16	17	18
Finland	8	7	7	6	5	5	5	5	5	n.d.
France	83	86	87	73	79	87	87	83	85	79
Germany	164	164	167	151	156	171	175	177	183	178
Italy	149	143	134	118	129	135	143	139	142	136
Netherlands	80	77	77	68	67	69	71	70	73	72
Norway	14	12	12	13	14	13	14	13	14	13
Poland	29	30	31	29	30	33	34	35	36	37
Portugal	11	9	9	8	10	10	13	12	12	12
Romania	25	24	23	21	21	21	22	22	21	22
Spain	67	66	60	55	57	58	63	63	71	64
Sweden	3	2	2	2	2	2	2	2	2	2
Turkey	86	87	89	94	93	89	104	95	86	92
United Kingdom	163	153	151	137	144	162	157	159	158	145
EU	939	909	890	796	835	893	920	912	938	898
Other	114	108	104	93	97	103	109	107	110	n.d.
Former Soviet Union	1,256	1,231	1,217	1,164	1,104	1,125	1,163	1,210	1,218	1,178
Azerbaijan	18	19	19	21	20	20	20	21	24	n.d.
Kazakhstan	51	54	58	28	27	29	33	33	35	32
Russia	878	870	861	857	817	834	865	907	911	880
Ukraine	105	96	88	73	58	57	55	57	50	53
Uzbekistan	107	93	91	85	81	85	90	89	92	88
Other	97	99	99	100	100	100	101	104	106	n.d.
Middle East	746	766	784	831	889	929	967	977	1,008	1,039
Iran	296	294	297	335	358	383	400	403	410	428
Iraq	14	13	13	13	13	14	21	26	33	37
Kuwait	33	35	35	35	40	43	43	44	47	53
Qatar	55	60	62	65	69	70	71	72	73	72
Saudi Arabia	140	152	154	160	164	170	179	182	182	183
United Arab Emirates	120	126	127	125	140	141	142	139	148	145
Other	89	85	96	99	105	109	110	111	116	122
Africa	219	230	226	235	246	254	281	296	303	293
Algeria	58	65	66	73	78	78	80	87	90	84
Angola	1	1	1	1	1	2	2	2	2	n.d.
Egypt	88	89	85	80	84	94	112	115	117	113
Libya	10	11	13	17	18	19	21	21	23	n.d.
Nigeria	28	29	28	31	31	30	31	33	33	34
South Africa	5	5	5	5	5	5	5	5	5	5
Other	28	30	28	28	29	28	30	32	33	n.d.
Asia-Pacific	1,169	1,227	1,289	1,325	1,336	1,393	1,450	1,572	1,617	1,632
Australia	60	63	68	69	70	72	74	76	78	76
China	253	282	322	353	371	402	461	541	587	629
India	108	97	89	89	94	102	110	111	114	112
Indonesia	78	80	82	84	84	82	79	88	88	78
Japan	242	252	250	252	240	244	239	229	218	211
Malaysia	65	66	77	80	78	72	63	78	80	74
New Zealand	8	8	9	10	9	9	9	8	9	9
South Korea	98	106	111	100	93	99	103	114	110	112
Taiwan	31	32	33	34	37	39	42	43	42	46
Thailand	71	82	87	87	87	85	80	82	84	77
Other	156	160	160	167	173	186	190	201	207	209
OECD	3,098	3,164	3,196	3,139	3,206	3,289	3,322	3,495	3,555	3,464
Non-OECD	3,287	3,349	3,404	3,458	3,498	3,600	3,761	3,948	4,038	4,027
World	6,385	6,514	6,601	6,597	6,705	6,889	7,084	7,443	7,600	7,491

Coal CO₂ Emissions (Million tonnes of carbon dioxide)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	2,014	1,778	1,835	1,825	1,595	1,472	1,442	1,372	1,190	935
Canada	85	78	75	72	66	65	66	54	51	47
Mexico	59	51	52	51	55	48	51	47	47	30
United States	1,871	1,650	1,707	1,702	1,474	1,358	1,326	1,270	1,091	858
South and Central America	97	102	120	124	128	123	118	117	116	109
Argentina	4	4	4	4	5	4	4	4	2	2
Brazil	49	52	59	65	65	60	60	58	55	48
Chile	22	25	28	25	28	29	30	28	26	25
Colombia	13	11	17	17	17	17	14	15	18	21
Peru	3	3	4	3	3	3	3	3	3	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	0	0	n.d.
Other	6	7	7	8	10	10	8	10	n.d.	n.d.
Europe	1,361	1,403	1,357	1,290	1,273	1,201	1,181	1,145	967	791
Belgium	15	15	16	15	14	13	13	13	15	12
Czech Republic	71	69	65	63	62	63	62	62	56	45
Finland	24	20	22	19	17	19	18	19	15	n.d.
France	45	51	53	41	40	36	40	46	36	29
Germany	314	328	339	325	322	313	293	278	216	178
Italy	60	62	53	52	48	44	38	35	24	18
Netherlands	31	34	34	38	46	43	39	35	26	16
Norway	3	3	3	3	3	3	3	3	3	3
Poland	217	213	213	202	201	201	203	200	179	156
Portugal	9	12	11	11	13	11	13	11	5	2
Romania	33	30	24	23	24	22	22	21	21	15
Spain	53	61	45	49	55	41	50	44	19	8
Sweden	9	8	8	7	7	7	7	8	7	6
Turkey	134	142	125	138	140	156	162	167	171	148
United Kingdom	120	152	146	118	94	48	39	34	24	22
EU	1,154	1,194	1,165	1,095	1,069	979	953	913	731	589
Other	223	206	201	185	185	179	179	170	150	n.d.
Former Soviet Union	734	733	702	639	648	640	624	657	676	624
Azerbaijan	0	0	0	0	0	0	0	0	0	n.d.
Kazakhstan	145	148	147	141	124	136	136	133	130	133
Russia	432	420	390	354	404	384	378	403	433	386
Ukraine	148	152	149	127	104	104	92	102	93	87
Uzbekistan	5	6	8	8	6	7	7	8	8	8
Other	5	7	8	10	10	10	10	11	12	n.d.
Middle East	39	46	43	43	41	38	37	36	36	34
Iran	6	5	6	6	7	6	7	7	7	8
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	2	5	7	8	7	7	8	8	7	6
Other	31	36	30	29	28	24	22	21	22	20
Africa	368	387	393	416	392	400	402	409	406	388
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	4	7	6	12	16	16
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	341	358	363	378	349	355	356	352	341	325
Other	26	27	28	36	39	38	40	44	49	46
Asia-Pacific	9,819	10,112	10,449	10,513	10,429	10,353	10,551	10,739	10,882	10,796
Australia	200	193	180	171	176	184	181	175	169	163
China	7,126	7,293	7,601	7,466	7,361	7,254	7,306	7,345	7,431	7,485
India	1,126	1,256	1,306	1,446	1,406	1,391	1,475	1,574	1,581	1,521
Indonesia	168	151	115	145	160	174	194	222	267	257
Japan	392	411	439	439	434	428	426	415	422	392
Malaysia	59	63	60	61	69	75	82	88	90	93
New Zealand	4	5	5	4	4	3	3	4	2	2
South Korea	334	329	319	332	339	340	347	346	298	262
Taiwan	149	146	149	151	146	148	152	151	145	143
Thailand	66	65	69	64	68	62	66	64	64	68
Other	195	200	206	234	267	294	318	357	412	411
OECD	4,217	4,052	4,075	4,005	3,760	3,568	3,519	3,397	2,988	2,504
Non-OECD	10,216	10,509	10,823	10,845	10,746	10,660	10,837	11,079	11,280	11,174
World	14,433	14,562	14,898	14,850	14,506	14,228	14,356	14,475	14,273	13,677

CO₂ Emissions Intensity to GDP (kCO ₂ /thousand \$15ppp)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	321	304	304	299	283	274	266	267	255	236
Canada	243	237	230	219	216	213	210	203	197	176
Mexico	232	226	219	206	203	199	195	192	185	170
United States	316	297	298	293	277	267	259	260	248	230
South and Central America	181	182	181	179	178	176	171	167	165	158
Argentina	201	205	206	207	209	212	201	203	232	225
Brazil	134	142	148	156	154	147	148	137	136	133
Chile	214	209	211	193	200	208	207	199	193	191
Colombia	115	110	118	115	114	117	104	107	108	111
Peru	152	142	136	141	141	142	133	128	124	n.d.
Trinidad & Tobago	1,017	966	957	964	944	926	912	919	890	n.d.
Venezuela	282	288	279	286	276	305	344	391	537	n.d.
Europe	189	187	181	169	168	164	162	155	147	139
Belgium	213	198	199	183	191	182	178	179	178	174
Czech Republic	331	323	313	296	284	281	273	262	245	226
Finland	236	216	223	206	190	199	183	185	168	n.d.
France	129	130	130	117	118	117	116	112	107	102
Germany	153	157	160	151	148	143	135	128	115	107
Italy	169	165	155	148	150	147	143	139	136	130
Netherlands	214	214	213	202	206	202	194	182	172	169
Norway	139	130	128	127	125	121	117	116	115	112
Poland	340	328	321	297	290	292	290	276	249	236
Portugal	152	154	151	146	157	152	160	145	131	124
Romania	216	205	174	167	162	151	148	143	133	129
Spain	168	170	155	151	155	145	150	144	132	120
Sweden	101	95	91	85	81	79	78	71	69	64
Turkey	186	184	164	167	164	168	173	167	161	150
United Kingdom	175	181	173	153	145	134	128	123	117	114
EU	189	188	183	171	169	165	161	155	145	138
Former Soviet Union	504	482	462	437	437	435	432	433	432	425
Azerbaijan	200	214	206	209	208	219	216	214	228	n.d.
Kazakhstan	610	588	595	461	435	471	456	427	407	416
Russia	493	470	447	439	452	444	449	455	461	451
Ukraine	570	558	536	484	445	436	391	402	362	379
Uzbekistan	823	680	643	557	491	491	489	468	457	434
Middle East	358	376	379	385	383	367	370	367	376	387
Iran	487	532	557	557	559	495	494	531	572	580
Iraq	388	388	386	397	359	330	341	377	388	398
Kuwait	497	482	481	468	490	486	509	502	519	575
Qatar	334	357	347	362	363	361	366	372	374	386
Saudi Arabia	345	349	345	358	360	352	348	324	321	323
United Arab Emirates	324	331	327	312	315	315	327	309	301	311
Africa	213	220	219	221	212	211	209	209	201	194
Algeria	251	268	267	277	284	271	270	283	291	280
Angola	96	90	100	104	106	108	96	97	103	n.d.
Egypt	203	205	200	198	199	199	197	193	187	171
Libya	608	345	440	636	622	620	511	483	456	n.d.
Nigeria	84	86	92	95	87	89	90	107	88	91
South Africa	644	655	654	660	616	616	617	608	591	595
Asia-Pacific	411	402	393	375	357	340	330	320	311	313
Australia	395	378	366	348	346	345	339	329	319	314
China	639	610	593	548	512	478	455	434	419	418
India	302	312	301	305	284	266	263	258	251	256
Indonesia	215	205	178	184	176	168	173	181	185	179
Japan	240	244	240	231	222	218	211	201	195	193
Malaysia	327	315	328	320	304	290	275	284	278	274
New Zealand	192	199	195	192	184	175	178	170	166	170
South Korea	383	378	366	352	350	349	344	336	300	284
Taiwan	540	520	513	506	503	503	502	481	451	443
Thailand	248	248	253	246	242	231	222	212	208	222
OECD	254	247	244	235	227	222	216	212	202	192
Non-OECD	380	375	368	355	342	329	321	314	309	310
World	316	312	307	297	287	278	272	267	260	257

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

CO₂ Emissions per capita (tCO ₂ per capita)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	14.1	13.6	13.7	13.7	13.3	13.0	12.8	13.0	12.6	11.1
Canada	17.8	17.8	17.8	17.6	17.4	16.9	17.0	17.1	16.8	14.8
Mexico	4.3	4.2	4.1	4.0	4.0	4.1	4.0	3.9	3.7	3.1
United States	17.4	16.7	16.9	16.9	16.4	15.9	15.6	16.1	15.6	13.8
South and Central America	2.6	2.7	2.8	2.8	2.8	2.7	2.6	2.5	2.5	2.2
Argentina	4.4	4.4	4.5	4.3	4.4	4.3	4.2	4.1	3.8	3.5
Brazil	2.3	2.5	2.6	2.8	2.6	2.4	2.4	2.2	2.2	2.0
Chile	4.6	4.7	4.8	4.4	4.6	4.9	4.9	4.8	4.7	4.3
Colombia	1.6	1.6	1.7	1.7	1.8	1.8	1.6	1.7	1.7	1.6
Peru	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.7	n.d.
Trinidad & Tobago	34.9	32.4	31.8	31.1	31.0	28.6	27.7	27.7	26.7	n.d.
Venezuela	6.2	6.6	6.6	6.5	6.1	5.7	5.3	4.9	4.5	n.d.
Other	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.8	1.9	n.d.
Europe	7.2	7.1	6.9	6.6	6.7	6.7	6.7	6.6	6.3	5.6
Belgium	10.8	10.0	10.1	9.5	10.0	9.6	9.6	9.7	9.7	8.9
Czech Republic	11.4	11.0	10.5	10.3	10.3	10.4	10.6	10.4	9.9	8.6
Finland	11.1	10.0	10.1	9.3	8.7	9.2	8.8	9.0	8.2	n.d.
France	5.7	5.7	5.6	5.2	5.2	5.2	5.3	5.2	5.0	4.4
Germany	9.9	10.1	10.3	9.8	9.7	9.7	9.5	9.2	8.6	7.8
Italy	7.1	6.7	6.1	5.7	5.8	5.8	5.7	5.7	5.6	4.8
Netherlands	11.3	11.1	11.0	10.5	10.9	10.9	10.7	10.2	9.8	9.2
Norway	9.9	9.4	9.2	9.1	9.1	8.8	8.7	8.7	8.6	7.8
Poland	8.9	8.7	8.6	8.3	8.5	8.7	9.1	9.1	8.6	7.9
Portugal	5.0	4.9	4.9	4.8	5.2	5.1	5.6	5.2	4.8	4.2
Romania	4.6	4.4	3.9	3.9	3.9	3.9	4.1	4.1	4.0	3.7
Spain	6.2	6.1	5.5	5.5	5.9	5.7	6.0	5.9	5.5	4.4
Sweden	5.4	5.0	4.8	4.6	4.6	4.5	4.5	4.1	4.0	3.5
Turkey	4.6	4.7	4.5	4.7	4.8	5.0	5.4	5.3	5.1	4.7
United Kingdom	7.4	7.7	7.4	6.7	6.5	6.1	5.8	5.7	5.4	4.7
EU	7.7	7.5	7.3	7.0	7.0	7.0	7.0	6.8	6.5	5.8
Other	6.8	6.4	6.3	6.0	6.1	6.2	6.3	6.1	6	n.d.
Former Soviet Union	8.8	8.8	8.5	8.2	8.0	8.0	8.2	8.3	8.3	8.3
Azerbaijan	2.9	3.2	3.2	3.3	3.2	3.3	3.3	n.d.	n.d.	n.d.
Kazakhstan	14.2	14.0	14.7	13.6	13.0	13.1	13.2	13.5	13.5	13.5
Russia	11.8	11.6	11.2	11.1	11.1	11.0	11.7	12.1	12.1	12.1
Ukraine	6.4	6.3	6.0	5.1	4.2	4.5	3.9	3.9	3.9	3.9
Uzbekistan	3.7	3.7	3.3	3.3	2.9	2.7	2.7	2.8	2.8	2.8
Other	160	170	168	174	173	174	175	182	188	213
Middle East	8.4	8.6	8.6	8.8	8.7	8.6	8.6	8.4	8.4	8.1
Iran	8.1	8.2	8.3	8.5	8.3	8.2	8.4	8.4	8.4	8.3
Iraq	4.3	4.8	4.9	4.9	4.5	4.7	4.6	4.9	5.2	4.6
Kuwait	26.6	26.1	25.1	23.6	23.9	23.7	23.0	22.5	22.8	22.7
Qatar	37.2	39.0	37.5	38.5	38.2	37.4	37.5	37.9	37.4	35.9
Saudi Arabia	16.8	17.4	17.1	17.8	18.2	17.7	16.9	15.8	15.4	14.6
United Arab Emirates	19.0	19.7	20.4	20.4	21.6	22.1	22.8	21.5	21.1	20.1
Other	4.0	4.1	3.8	3.8	3.7	3.6	3.6	3.4	3.6	3.5
Africa	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.1	1.0
Algeria	3.3	3.5	3.5	3.7	3.8	3.7	3.6	3.8	3.8	3.4
Angola	1.6	1.6	1.6	1.6	1.6	1.5	1.3	1.3	1.3	n.d.
Egypt	2.6	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.5
Libya	6.4	8.5	9.0	10.5	9.3	8.7	9.7	9.7	n.d.	n.d.
Nigeria	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6
South Africa	8.2	8.4	8.5	8.6	8.0	7.9	7.9	7.8	7.4	6.9
Other	0.37	0.39	0.38	0.39	0.40	0.40	0.41	0.41	0.41	n.d.
Asia-Pacific	4.2	4.3	4.5	4.5	4.4	4.4	4.5	4.5	4.5	4.5
Australia	18.5	18.1	17.7	17.0	17.1	17.3	17.2	16.9	16.4	15.5
China	7.6	7.9	8.2	8.1	8.0	8.0	8.0	8.1	8.3	8.4
India	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.9	1.9	1.8
Indonesia	2.1	2.1	1.9	2.0	2.0	2.0	2.1	2.3	2.5	2.3
Japan	9.9	10.3	10.3	10.0	9.7	9.6	9.5	9.1	9.0	8.4
Malaysia	7.5	7.5	8.0	8.2	8.1	7.9	7.8	8.3	8.4	7.7
New Zealand	7.6	7.9	7.9	7.9	7.8	7.4	7.6	7.4	7.2	6.7
South Korea	13.5	13.6	13.5	13.3	13.5	13.8	14.0	13.9	12.7	11.8
Taiwan	11.5	11.2	11.3	11.7	11.6	11.7	12.0	11.8	11.3	11.2
Thailand	3.7	4.0	4.1	4.1	4.1	4.1	4.0	4.0	4.0	3.9
Other	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.2
OECD	10.6	10.4	10.3	10.1	10.0	9.9	9.8	9.8	9.4	8.5
Non-OECD	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7
World	4.9	5.0	5.0	4.9	4.9	4.8	4.8	4.8	4.8	4.5

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



Primary Energy
Intensity to GDP

Primary Energy Intensity to GDP (ktep/\$15ppp)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North America	136	131	131	130	125	122	119	120	116	112
Canada	181	180	179	179	178	179	178	177	176	173
Mexico	94	93	92	87	83	81	77	76	74	69
United States	132	127	127	125	120	117	114	115	111	107
South and Central America	91	91	92	91	90	90	88	86	86	86
Argentina	91	95	95	97	96	98	95	95	95	97
Brazil	92	93	95	97	99	98	99	96	97	99
Chile	94	99	98	87	87	91	91	89	90	91
Colombia	56	52	65	63	61	62	59	55	57	57
Peru	68	69	63	64	64	64	62	65	63	n.d.
Trinidad & Tobago	546	529	514	531	503	476	485	495	475	n.d.
Venezuela	126	122	133	120	125	138	155	145	192	n.d.
Europe	87	86	85	80	79	78	77	75	72	72
Belgium	113	107	111	103	101	105	103	97	100	99
Czech Republic	131	131	132	124	118	114	114	111	107	104
Finland	149	146	145	148	140	142	137	136	n.d.	n.d.
France	98	97	97	93	93	90	88	86	84	81
Germany	84	84	86	80	79	78	76	73	71	70
Italy	72	71	70	66	68	67	67	65	64	65
Netherlands	92	93	92	85	85	85	83	79	77	78
Norway	98	103	109	94	94	90	93	88	85	87
Poland	110	105	103	96	94	95	95	92	85	83
Portugal	73	71	72	70	72	70	70	66	64	64
Romania	95	91	80	77	75	71	69	67	64	66
Spain	78	80	75	73	73	71	73	71	67	67
Sweden	111	113	110	105	92	97	98	97	94	93
Turkey	71	71	64	63	64	66	66	63	63	60
United Kingdom	74	75	73	67	66	63	61	60	58	58
EU	88	88	86	82	81	79	78	76	73	73
Former Soviet Union	212	206	197	190	186	191	190	194	192	188
Azerbaijan	94	100	96	96	95	97	98	97	104	n.d.
Kazakhstan	203	185	193	149	124	143	140	155	151	141
Russia	209	207	197	196	196	202	203	207	206	204
Ukraine	248	240	227	221	215	207	198	200	185	193
Uzbekistan	333	275	256	222	198	197	199	201	194	179
Middle East	139	147	148	152	153	148	153	154	158	164
Iran	191	215	220	226	229	208	214	229	248	251
Iraq	144	141	139	139	128	125	141	157	160	159
Kuwait	169	166	167	150	184	196	196	191	201	228
Qatar	137	187	195	189	182	173	186	187	189	194
Saudi Arabia	141	137	133	141	142	138	142	135	136	138
United Arab Emirates	122	124	124	131	127	129	127	124	130	135
Africa	142	142	139	141	136	137	136	135	132	133
Algeria	104	110	111	116	117	113	115	120	128	123
Angola	69	71	68	86	75	74	74	79	81	n.d.
Egypt	82	83	80	80	77	81	82	80	77	70
Libya	293	130	133	271	239	244	187	172	162	n.d.
Nigeria	172	166	159	153	148	155	156	161	155	161
South Africa	213	199	193	201	185	194	192	188	181	187
Asia-Pacific	140	136	132	128	122	117	114	111	112	113
Australia	129	123	121	118	115	112	110	107	106	106
China	205	197	189	179	169	157	152	149	145	146
India	133	132	126	124	117	110	106	104	102	106
Indonesia	96	90	82	81	77	75	76	75	74	71
Japan	95	92	90	87	85	83	82	81	78	76
Malaysia	125	120	130	125	113	113	103	108	106	103
New Zealand	121	124	122	124	121	115	112	108	107	118
South Korea	163	162	158	156	155	156	153	149	144	141
Taiwan	219	214	213	209	203	203	196	195	186	182
Thailand	124	124	131	129	125	124	119	112	110	108
OECD	109	107	106	103	100	99	97	95	93	91
Non-OECD	152	150	146	143	138	133	131	129	127	129
World	134	132	130	127	123	120	118	117	115	114

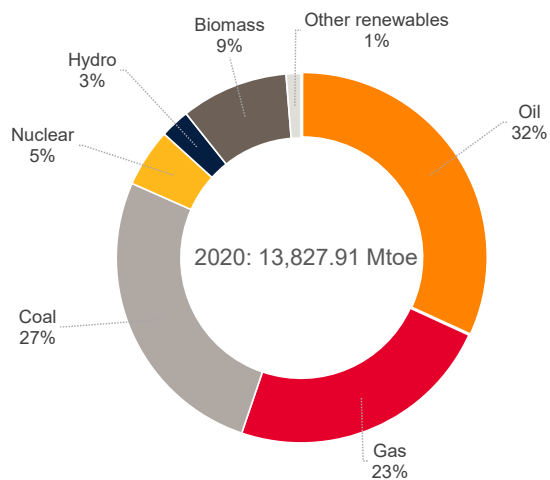


Regional
and country
data

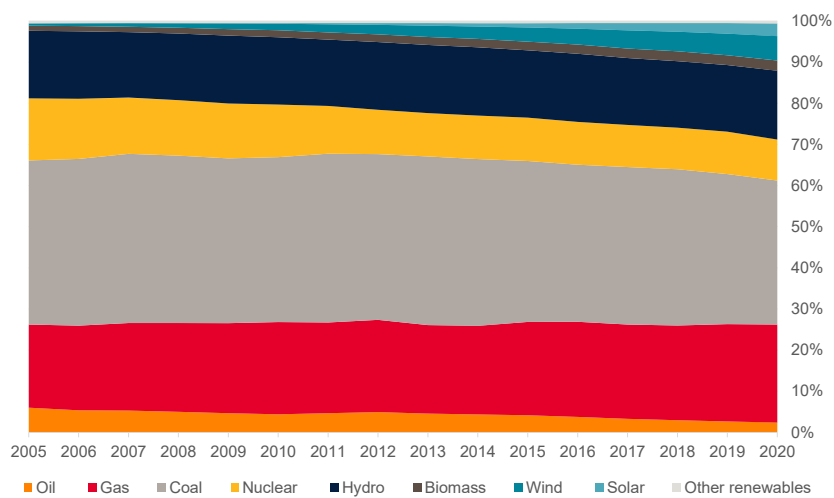
World (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	13,051.1	13,220.4	13,410.0	13,557.4	13,592.8	13,703.6	13,969.0	14,298.9	14,407.5	13,827.9	100.0
Oil	4,134.7	4,184.4	4,209.6	4,279.8	4,339.2	4,395.4	4,482.2	4,522.6	4,543.5	4,148.8	30.0
Gas	2,784.3	2,836.8	2,895.0	2,898.7	2,927.1	3,015.5	3,096.4	3,259.8	3,335.0	3,291.3	23.8
Coal	3,817.7	3,858.0	3,904.9	3,934.6	3,842.8	3,739.8	3,780.5	3,829.8	3,770.6	3,621.2	26.2
Nuclear	673.1	641.2	646.1	660.7	669.8	679.8	687.0	706.4	728.7	700.4	5.1
Hydro	301.9	316.0	327.2	333.6	334.8	347.7	350.1	362.3	368.0	376.4	2.7
Biomass	1,207.5	1,237.4	1,255.2	1,259.6	1,267.8	1,292.5	1,309.2	1,324.8	1,342.3	1,343.9	9.7
Other renewables	43.4	54.5	68.8	79.6	94.9	113.0	137.6	159.2	183.9	209.5	1.5
Electricity balance of trade*	88.4	92.1	103.2	110.8	116.5	119.9	126.0	134.2	135.4	136.5	1.0
Total final consumption, by source	9,077.2	9,179.7	9,346.6	9,436.3	9,536.7	9,657.6	9,845.3	10,049.5	10,153.5	9,700.0	100.0
Oil	3,575.1	3,611.5	3,675.2	3,727.1	3,819.7	3,884.0	3,985.9	4,047.7	4,075.5	3,705.3	38.2
Gas	1,305.8	1,307.8	1,358.7	1,365.0	1,366.3	1,397.4	1,455.1	1,547.7	1,572.0	1,545.6	15.9
Coal	1,317.2	1,326.4	1,326.1	1,328.5	1,306.3	1,262.3	1,226.2	1,191.3	1,204.3	1,171.5	12.1
Electricity	1,580.8	1,622.5	1,673.1	1,707.3	1,735.3	1,791.3	1,841.8	1,915.5	1,938.8	1,921.4	19.8
Heat	309.4	318.8	314.1	313.0	313.4	328.1	335.9	349.6	354.5	360.5	3.7
Biomass	988.9	992.8	999.4	995.4	995.6	994.4	1,000.4	997.7	1,008.4	995.8	10.3
Electricity generation, by source	1,915.4	1,960.4	2,019.1	2,056.2	2,093.9	2,155.2	2,213.1	2,299.5	2,327.4	2,313.9	100.0
Oil	89.4	96.3	92.3	89.8	86.9	80.6	73.0	67.9	61.9	55.7	2.4
Gas	422.5	440.2	434.4	442.8	475.2	498.6	507.0	529.4	550.5	551.0	23.8
Coal	786.4	789.6	828.0	833.6	819.6	823.2	847.6	873.4	849.0	810.5	35.0
Nuclear	222.1	211.6	213.2	218.0	221.0	224.3	226.7	233.1	240.5	231.1	10.0
Hydro	309.1	323.1	334.4	341.0	342.3	357.0	360.0	371.9	377.3	386.2	16.7
Biomass	33.6	36.2	39.1	42.0	44.5	49.0	51.5	54.8	55.2	57.9	2.5
Wind	37.6	45.2	55.7	61.7	71.7	82.8	97.4	109.5	122.1	136.9	5.9
Solar	5.7	8.9	12.5	17.1	22.3	29.2	39.1	48.6	59.7	72.0	3.1
Other renewables	9.1	9.2	9.6	10.1	10.3	10.4	10.8	10.9	11.3	12.6	0.5
Total final consumption, by sector	9,077.2	9,179.7	9,346.6	9,436.3	9,536.7	9,657.6	9,845.3	10,049.5	10,153.5	9,700.0	100.0
Industry	2,928.0	2,963.6	2,981.6	2,998.0	2,993.8	2,990.6	3,017.3	3,040.5	3,083.1	3,036.5	31.3
Transport	2,415.1	2,447.6	2,517.5	2,559.3	2,636.5	2,698.2	2,768.0	2,837.0	2,854.7	2,504.4	25.8
Residential/Commercial	2,717.7	2,716.6	2,792.1	2,783.1	2,803.5	2,850.4	2,904.0	2,982.0	3,005.3	2,968.2	30.6
Oil final consumption, by sector	3,575.1	3,611.5	3,675.2	3,727.1	3,819.7	3,884.0	3,985.9	4,047.7	4,075.5	3,705.3	100.0
Industry	278.5	278.2	277.0	270.6	282.3	287.4	289.1	275.6	277.9	273.9	7.4
Transport	2,297.9	2,321.2	2,382.9	2,417.1	2,488.5	2,544.4	2,608.6	2,662.3	2,672.4	2,328.7	62.8
Residential/Commercial	283.8	278.3	285.9	278.7	287.4	289.9	297.1	295.7	299.7	292.5	7.9
Natural gas final consumption, by sector	1,305.8	1,307.8	1,358.7	1,365.0	1,366.3	1,397.4	1,455.1	1,547.7	1,572.0	1,545.6	100.0
Industry	513.0	529.3	535.6	544.7	542.1	548.5	573.7	599.4	611.6	604.4	39.1
Transport	31.8	33.6	35.6	39.1	41.4	42.4	44.0	51.8	54.0	54.4	3.5
Residential/Commercial	597.3	577.0	618.6	610.0	609.3	624.7	640.9	689.7	694.3	678.3	43.9
Refined products consumption	3,560.4	3,600.7	3,662.8	3,714.9	3,806.3	3,868.7	3,973.3	4,035.3	4,063.4	3,693.8	100.0
Gasoline	968.5	984.6	1,015.5	1,023.5	1,058.2	1,083.9	1,097.9	1,110.1	1,115.6	989.1	26.8
Diesel	1,193.2	1,215.0	1,233.3	1,256.6	1,274.8	1,272.0	1,300.4	1,323.9	1,337.4	1,238.1	33.5
Heating Oil	282.7	265.0	255.2	250.8	247.1	251.5	260.8	259.3	246.0	229.6	6.2
Aviation Jet	258.0	260.9	268.0	277.1	292.4	305.9	324.8	337.0	340.2	211.7	5.7
LPG	232.8	237.7	254.2	259.1	270.1	279.1	286.9	299.6	306.9	302.9	8.2
Imports	4,281.1	4,310.4	4,307.7	4,274.6	4,461.8	4,644.6	4,824.9	4,892.8	4,856.3	4,502.2	100.0
Oil	3,412.9	3,450.5	3,435.3	3,428.5	3,584.4	3,720.2	3,826.9	3,873.7	3,799.5	3,487.9	77.5
Gas	868.2	860.0	872.4	846.1	877.4	924.4	998.0	1,019.1	1,056.9	1,014.3	22.5
Gasoline	197.4	202.0	206.2	208.2	223.6	239.8	241.9	249.6	242.8	219.7	4.9
Diesel	322.6	332.5	352.4	363.3	379.1	401.8	405.6	412.3	407.0	361.9	8.0
Heating Oil	255.0	249.3	250.3	238.8	243.4	237.4	224.2	223.8	192.1	194.9	4.3
Aviation Jet	67.7	67.0	71.9	70.8	77.6	86.0	91.6	92.6	94.2	62.9	1.4
LPG	84.9	86.4	91.9	100.1	109.4	124.2	130.0	136.0	142.1	137.9	3.1
Exports	4,269.5	4,339.2	4,352.7	4,322.2	4,539.0	4,744.5	4,880.9	4,985.6	4,937.4	4,641.4	100.0
Oil	3,411.0	3,469.1	3,464.1	3,452.2	3,636.8	3,799.6	3,852.5	3,924.4	3,828.3	3,574.9	77.0
Gas	858.5	870.1	888.6	870.0	902.2	944.9	1,028.4	1,061.2	1,109.1	1,066.5	23.0
Gasoline	183.8	196.5	190.9	198.5	225.5	240.1	242.6	252.1	238.8	205.7	4.4
Diesel	328.3	348.8	358.0	360.7	386.2	411.2	429.4	428.0	423.7	393.7	8.5
Heating Oil	294.8	284.2	300.4	291.8	303.3	282.9	269.0	266.8	230.7	229.9	5.0
Aviation Jet	76.5	80.1	87.1	84.4	89.3	92.7	98.6	103.6	102.7	78.4	1.7
LPG	81.3	81.5	81.0	100.5	108.4	123.7	128.2	129.6	126.4	128.5	2.8
CO₂ Emissions (Million tons CO₂)	30,773.6	31,216.6	31,764.2	31,769.5	31,702.5	31,677.1	32,101.8	32,641.8	32,660.7	31,067.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	316.4	311.8	307.3	297.3	287.2	278.2	272.0	267.2	260.2	256.8	-
Final energy intensity (toe/million \$15ppp)	85.3	83.6	82.6	80.4	78.7	77.2	75.8	74.7	73.4	72.5	-
Total energy intensity (toe/million \$15ppp)	134.2	132.0	129.7	126.9	123.1	120.3	118.4	117.0	114.8	114.3	-

*Heat is included

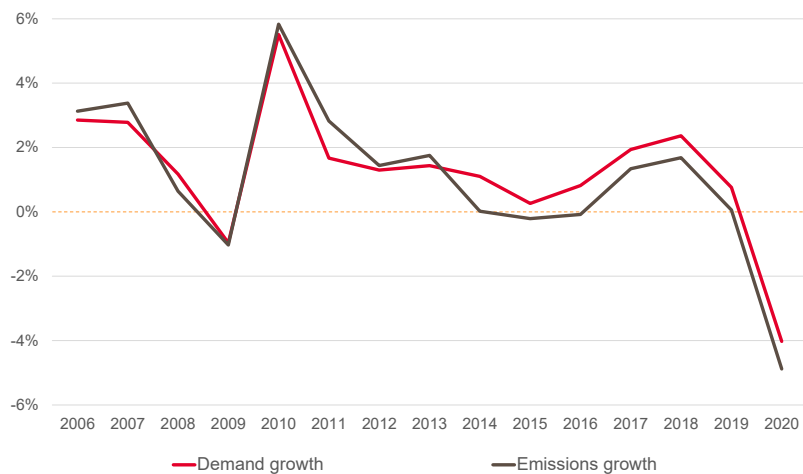
Primary energy demand mix



Electricity generation by source



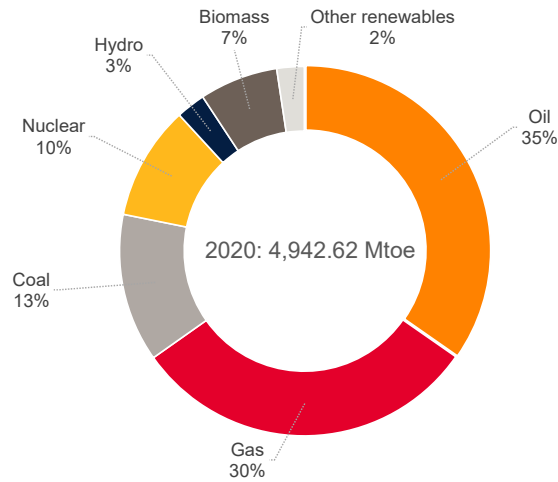
Primary energy demand and CO₂ emissions growth



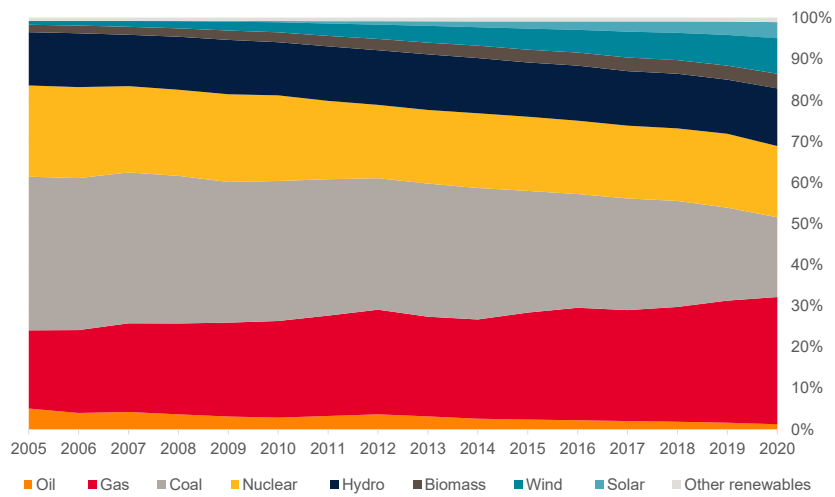
OECD (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	5,342.1	5,303.7	5,338.0	5,288.4	5,289.0	5,291.6	5,325.2	5,381.5	5,316.3	4,942.6	100.0
Oil	1,935.8	1,924.6	1,898.5	1,877.8	1,904.3	1,898.6	1,917.7	1,907.0	1,893.1	1,695.4	34.3
Gas	1,318.3	1,345.2	1,368.2	1,347.9	1,375.3	1,418.6	1,433.2	1,496.8	1,526.4	1,491.8	30.2
Coal	1,070.0	1,025.1	1,030.4	1,010.7	947.4	898.7	881.1	854.0	756.5	635.0	12.8
Nuclear	543.9	508.6	511.4	516.1	513.6	512.3	509.6	515.8	519.4	487.5	9.9
Hydro	119.6	119.7	121.8	120.7	118.9	121.2	120.3	122.8	120.5	124.5	2.5
Biomass	278.8	299.0	313.9	313.1	316.5	320.5	330.3	339.5	342.0	336.1	6.8
Other renewables	33.9	41.2	49.6	56.2	65.3	72.5	84.2	91.6	103.8	117.2	2.4
Electricity balance of trade*	41.8	40.4	44.2	46.0	47.7	49.2	48.8	54.0	54.5	55.1	1.1
Total final consumption, by source	3,656.7	3,633.9	3,688.9	3,655.8	3,680.3	3,711.4	3,754.1	3,816.6	3,799.4	3,518.1	100.0
Oil	1,716.5	1,691.6	1,697.1	1,691.2	1,721.8	1,736.9	1,753.7	1,759.2	1,753.3	1,563.4	44.4
Gas	689.3	686.1	724.1	710.1	701.8	710.3	728.4	764.9	768.2	732.8	20.8
Coal	180.4	176.2	173.8	171.2	167.9	161.4	162.4	158.1	152.1	133.5	3.8
Electricity	806.7	805.7	808.7	805.6	808.7	818.6	820.1	835.0	825.4	796.0	22.6
Heat	67.8	68.4	68.3	65.1	65.9	69.2	69.1	71.0	70.8	71.1	2.0
Biomass	196.0	205.8	216.8	212.7	214.1	215.1	220.4	228.4	229.6	221.3	6.3
Electricity generation, by source	941.7	940.3	941.0	936.6	939.9	947.0	950.1	965.6	953.3	927.6	100.0
Oil	30.6	34.2	29.6	24.1	22.4	21.1	19.0	17.7	15.4	11.8	1.3
Gas	229.7	239.3	228.2	226.1	244.5	259.0	256.3	269.6	283.1	286.8	30.9
Coal	312.3	300.6	304.4	299.4	278.1	261.7	258.0	248.9	215.2	179.7	19.4
Nuclear	179.5	167.8	168.8	170.3	169.5	169.1	168.2	170.2	171.4	160.9	17.3
Hydro	125.0	125.1	127.0	125.9	124.0	126.7	126.1	128.3	125.6	130.0	14.0
Biomass	23.8	25.6	26.8	28.1	29.4	30.2	31.3	32.1	32.3	32.9	3.6
Wind	28.5	32.8	38.6	42.1	48.1	52.2	60.0	64.0	71.4	80.0	8.6
Solar	5.3	8.0	10.4	13.3	16.4	19.5	23.4	27.0	30.9	36.5	3.9
Other renewables	6.9	6.9	7.2	7.4	7.5	7.6	7.8	7.7	7.9	9.0	1.0
Total final consumption, by sector	3,656.7	3,633.9	3,688.9	3,655.8	3,680.3	3,711.4	3,754.1	3,816.6	3,799.4	3,518.1	100.0
Industry	868.0	866.8	868.8	863.5	860.6	860.8	873.0	890.6	882.8	831.4	23.6
Transport	1,164.1	1,151.4	1,170.7	1,173.3	1,205.8	1,224.5	1,237.2	1,254.2	1,252.2	1,093.6	31.1
Residential/Commercial	1,189.7	1,174.5	1,216.3	1,175.7	1,175.7	1,182.1	1,185.0	1,215.6	1,205.6	1,157.4	32.9
Oil final consumption, by sector	1,716.5	1,691.6	1,697.1	1,691.2	1,721.8	1,736.9	1,753.7	1,759.2	1,753.3	1,563.4	100.0
Industry	92.7	88.9	84.6	79.6	81.8	80.4	80.5	83.2	81.9	74.5	4.8
Transport	1,109.7	1,090.7	1,107.5	1,108.6	1,140.3	1,155.9	1,165.7	1,181.2	1,178.5	1,024.1	65.5
Residential/Commercial	136.3	129.2	131.3	119.7	122.0	121.4	119.7	111.6	109.5	102.0	6.5
Natural gas final consumption, by sector	689.3	686.1	724.1	710.1	701.8	710.3	728.4	764.9	768.2	732.8	100.0
Industry	252.7	259.9	263.1	264.7	261.3	266.2	272.3	282.4	283.7	273.6	37.3
Transport	3.3	3.4	3.6	3.9	4.0	4.1	4.2	4.5	4.6	4.4	0.6
Residential/Commercial	394.9	383.4	417.5	400.7	395.4	394.9	401.1	426.0	425.5	402.0	54.9
Refined products consumption	1,711.1	1,686.5	1,691.6	1,685.7	1,715.0	1,731.5	1,746.8	1,751.6	1,746.1	1,556.8	100.0
Gasoline	601.0	591.1	593.3	591.8	603.6	611.9	608.7	614.7	613.3	530.5	34.1
Diesel	591.9	584.5	588.5	591.5	599.2	602.1	612.2	617.0	612.3	559.9	36.0
Heating Oil	31.9	27.7	21.4	18.7	20.3	18.4	17.6	16.5	15.8	12.0	0.8
Aviation Jet	68.8	68.9	71.7	73.8	77.0	79.7	83.3	85.2	86.8	54.2	3.5
LPG	103.7	103.0	111.2	107.7	108.8	107.9	105.2	109.1	110.0	105.9	6.8
Imports	2,731.9	2,705.3	2,636.0	2,554.7	2,658.4	2,744.7	2,819.1	2,801.8	2,750.3	2,463.1	100.0
Oil	2,075.8	2,057.4	1,986.6	1,935.1	2,024.2	2,072.3	2,101.5	2,084.7	2,006.8	1,762.5	71.6
Gas	656.1	647.9	649.4	619.6	634.2	672.4	717.7	717.1	743.4	700.6	28.4
Gasoline	92.4	91.3	84.8	82.0	92.5	99.7	97.6	100.1	100.8	96.2	3.9
Diesel	155.8	159.8	169.6	168.1	182.2	194.4	196.0	196.0	192.8	180.8	7.3
Heating Oil	94.8	92.6	91.6	87.4	86.8	84.2	67.1	68.5	57.2	60.4	2.5
Aviation Jet	40.0	40.4	44.1	44.3	49.5	54.4	57.4	59.7	62.4	40.3	1.6
LPG	50.1	50.2	51.3	52.3	54.4	59.3	59.7	62.2	62.4	58.0	2.4
Exports	1,190.0	1,228.1	1,252.5	1,287.5	1,382.6	1,457.4	1,585.5	1,665.2	1,737.6	1,707.7	100.0
Oil	882.5	911.3	934.4	978.6	1,052.6	1,097.9	1,168.0	1,233.6	1,267.4	1,223.7	71.7
Gas	307.6	316.8	318.0	308.9	330.0	359.5	417.4	431.6	470.1	483.9	28.3
Gasoline	107.6	118.8	113.9	117.9	134.7	140.9	148.6	152.3	143.8	118.7	7.0
Diesel	169.1	188.1	196.3	191.1	201.9	206.9	220.9	205.2	211.2	195.9	11.5
Heating Oil	107.1	102.8	105.0	107.3	113.4	108.9	92.3	90.6	72.0	72.8	4.3
Aviation Jet	34.2	38.1	39.7	37.7	40.4	42.6	45.5	49.3	47.8	35.3	2.1
LPG	9.5	10.2	10.3	26.9	35.5	42.3	47.2	50.6	56.8	63.8	3.7
CO₂ Emissions (Million tons CO₂)	12,409.4	12,262.6	12,281.5	12,084.3	11,989.1	11,920.5	11,912.6	11,979.3	11,595.0	10,442.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	253.5	247.3	243.8	234.9	227.2	221.8	216.2	212.3	202.2	191.5	-
Final energy intensity (toe/million \$15ppp)	67.3	65.8	66.1	63.8	62.8	62.1	61.1	60.9	59.6	57.8	-
Total energy intensity (toe/million \$15ppp)	109.1	106.9	106.0	102.8	100.2	98.5	96.6	95.4	92.7	90.7	-

*Heat is included

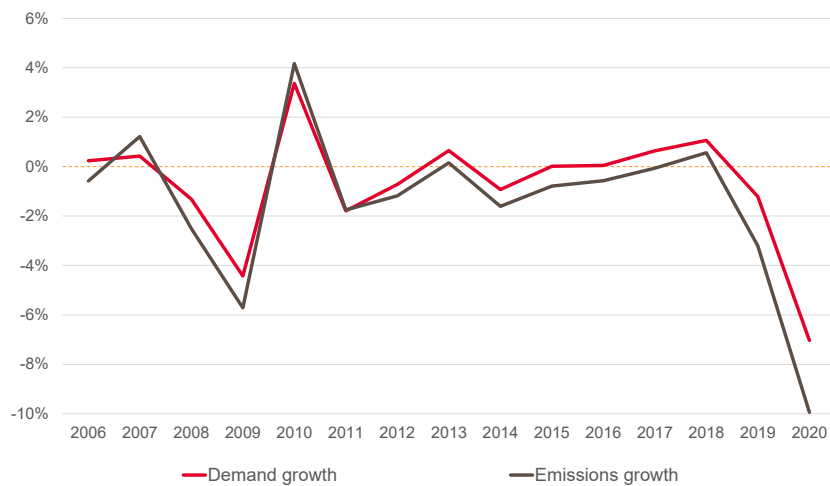
Primary energy demand mix



Electricity generation by source



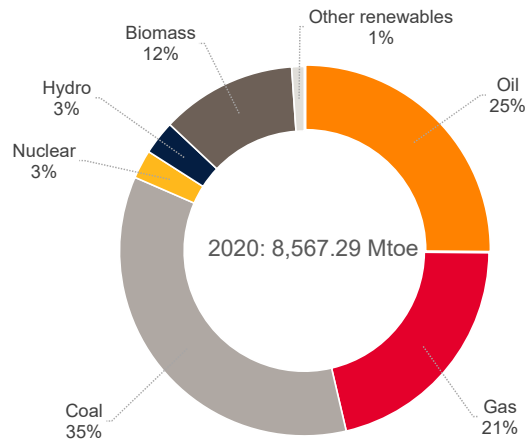
Primary energy demand and CO₂ emissions growth



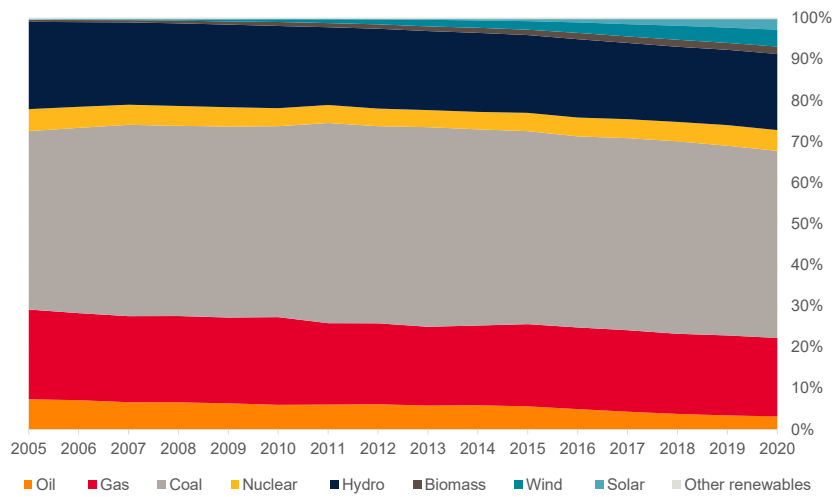
Non-OECD (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	7,347.0	7,569.6	7,722.8	7,907.5	7,924.8	8,020.2	8,234.1	8,497.5	8,678.7	8,567.3	100.0
Oil	1,836.9	1,912.7	1,961.9	2,040.5	2,055.9	2,105.0	2,154.7	2,195.3	2,237.4	2,134.0	24.9
Gas	1,466.0	1,491.7	1,526.9	1,550.8	1,551.9	1,596.9	1,663.3	1,763.1	1,807.4	1,799.2	21.0
Coal	2,747.7	2,832.9	2,874.5	2,923.9	2,895.3	2,841.2	2,899.4	2,976.0	3,014.5	2,986.5	34.9
Nuclear	129.2	132.6	134.7	144.7	156.1	167.5	177.4	190.6	209.3	212.9	2.5
Hydro	182.3	196.3	205.5	212.9	215.8	226.5	229.8	239.5	247.5	251.9	2.9
Biomass	928.7	938.5	941.3	946.5	951.4	972.0	978.9	985.2	1,001.7	1,009.1	11.8
Other renewables	9.6	13.3	19.2	23.5	29.6	40.5	53.4	67.6	80.0	92.3	1.1
Electricity balance of trade*	46.6	51.7	58.9	64.8	68.8	70.7	77.1	80.2	80.9	81.3	0.9
Total final consumption, by source	5,058.5	5,198.7	5,308.4	5,419.1	5,477.5	5,554.3	5,681.4	5,813.1	5,942.6	5,863.7	100.0
Oil	1,496.7	1,572.8	1,628.8	1,674.5	1,719.0	1,755.3	1,822.4	1,868.7	1,910.1	1,823.1	31.1
Gas	616.5	621.6	634.6	655.0	664.5	687.1	726.7	782.8	803.7	812.6	13.9
Coal	1,136.8	1,150.1	1,152.2	1,157.3	1,138.4	1,100.9	1,063.8	1,033.1	1,052.1	1,037.9	17.7
Electricity	774.1	816.8	864.3	901.7	926.6	972.7	1,021.7	1,080.5	1,114.1	1,126.2	19.2
Heat	241.6	250.3	245.8	247.9	247.5	259.0	266.9	278.6	283.7	289.4	4.9
Biomass	792.9	787.0	782.6	782.7	781.6	779.3	780.0	769.3	779.0	774.6	13.2
Electricity generation, by source	973.8	1,020.1	1,078.1	1,119.6	1,154.0	1,208.2	1,263.0	1,333.9	1,374.2	1,386.3	100.0
Oil	58.7	62.1	62.6	65.8	64.5	59.5	54.0	50.1	46.6	44.0	3.2
Gas	192.7	200.9	206.2	216.8	230.8	239.6	250.7	259.8	267.3	264.1	19.1
Coal	474.0	489.0	523.6	534.2	541.5	561.5	589.6	624.5	633.8	630.8	45.5
Nuclear	42.6	43.7	44.4	47.7	51.5	55.3	58.5	62.9	69.1	70.3	5.1
Hydro	184.1	198.1	207.4	215.1	218.3	230.3	233.9	243.6	251.7	256.3	18.5
Biomass	9.7	10.6	12.3	14.0	15.1	18.7	20.1	22.7	23.0	25.0	1.8
Wind	9.1	12.3	17.1	19.7	23.6	30.6	37.4	45.5	50.7	56.8	4.1
Solar	0.4	1.0	2.1	3.7	5.9	9.8	15.8	21.7	28.8	35.4	2.6
Other renewables	2.2	2.3	2.4	2.7	2.8	2.8	3.0	3.1	3.2	3.5	0.3
Total final consumption, by sector	5,058.5	5,198.7	5,308.4	5,419.1	5,477.5	5,554.3	5,681.4	5,813.1	5,942.6	5,863.7	100.0
Industry	2,059.9	2,096.8	2,112.8	2,134.6	2,133.2	2,129.8	2,144.3	2,149.9	2,201.0	2,205.8	37.6
Transport	888.9	949.1	997.5	1,024.6	1,051.8	1,081.8	1,120.9	1,162.9	1,189.8	1,091.5	18.6
Residential/Commercial	1,528.0	1,542.1	1,575.8	1,607.4	1,627.8	1,668.2	1,719.0	1,766.4	1,800.7	1,811.8	30.9
Oil final consumption, by sector	1,496.7	1,572.8	1,628.8	1,674.5	1,719.0	1,755.3	1,822.4	1,868.7	1,910.1	1,823.1	100.0
Industry	185.8	189.4	192.4	190.9	200.5	207.0	208.7	192.4	196.3	199.7	11.0
Transport	826.2	883.3	926.1	947.1	969.2	996.6	1,033.1	1,061.2	1,081.2	985.3	54.0
Residential/Commercial	147.4	149.2	154.7	159.0	165.4	168.5	177.3	184.2	190.5	190.9	10.5
Natural gas final consumption, by sector	616.5	621.6	634.6	655.0	664.5	687.1	726.7	782.8	803.7	812.6	100.0
Industry	260.4	269.4	272.5	280.1	280.8	282.3	301.4	317.0	328.3	331.3	40.8
Transport	28.6	30.2	32.0	35.2	37.3	38.2	39.8	47.3	49.3	49.9	6.1
Residential/Commercial	202.4	193.6	201.1	209.3	213.9	229.8	239.8	263.8	268.7	276.2	34.0
Refined products consumption	1,487.3	1,567.1	1,621.9	1,667.8	1,712.3	1,745.4	1,816.7	1,863.8	1,905.2	1,818.2	100.0
Gasoline	367.5	393.5	422.2	431.7	454.7	472.0	489.1	495.3	502.2	458.4	25.2
Diesel	574.0	609.6	623.2	632.7	632.8	629.6	646.9	664.5	679.7	633.3	34.8
Heating Oil	73.0	67.9	65.5	67.7	64.9	63.4	67.1	65.8	64.1	63.8	3.5
Aviation Jet	32.7	35.5	37.2	38.9	41.6	44.8	49.4	51.7	52.6	37.4	2.1
LPG	129.0	134.7	143.0	151.4	161.3	171.2	181.7	190.5	197.0	197.4	10.9
Imports	1,549.2	1,605.1	1,671.8	1,719.8	1,803.5	1,899.9	2,005.8	2,090.9	2,103.4	2,036.6	100.0
Oil	1,337.1	1,393.1	1,448.7	1,493.4	1,560.2	1,647.9	1,725.5	1,789.0	1,790.0	1,722.9	84.6
Gas	212.1	212.0	223.0	226.4	243.3	252.0	280.4	302.0	313.4	313.7	15.4
Gasoline	105.0	110.7	121.4	126.1	131.1	140.1	144.2	149.5	141.9	123.4	6.1
Diesel	166.8	172.8	182.8	195.2	196.9	207.3	209.6	216.3	213.6	180.5	8.9
Heating Oil	160.2	156.7	158.8	151.4	156.5	153.2	157.2	155.3	134.4	113.5	5.6
Aviation Jet	27.7	26.6	27.8	26.5	28.1	31.6	34.1	32.9	31.7	29.5	1.4
LPG	34.8	36.1	40.7	47.8	55.0	65.0	70.3	73.8	79.6	79.8	3.9
Exports	3,079.5	3,111.1	3,100.3	3,034.7	3,156.5	3,287.1	3,295.5	3,320.5	3,200.0	2,933.9	100.0
Oil	2,528.5	2,557.8	2,529.7	2,473.6	2,584.2	2,701.7	2,684.5	2,690.8	2,560.9	2,351.2	80.1
Gas	551.0	553.3	570.6	561.1	572.3	585.4	611.0	629.7	639.1	582.7	19.9
Gasoline	76.2	77.6	77.0	80.6	90.8	99.2	94.0	99.8	95.1	87.0	3.0
Diesel	159.1	160.7	161.7	169.6	184.3	204.3	208.5	222.8	212.6	197.8	6.7
Heating Oil	187.7	181.3	195.4	184.6	189.9	174.0	176.7	176.2	159.1	157.6	5.4
Aviation Jet	42.3	42.0	47.4	46.7	48.9	50.1	53.1	54.3	54.8	42.9	1.5
LPG	71.8	71.4	70.7	73.6	72.9	81.4	81.1	79.0	69.0	64.0	2.2
CO₂ Emissions (Million tons CO₂)	18,364.2	18,954.1	19,482.8	19,685.3	19,713.4	19,756.7	20,189.3	20,662.6	21,075.4	20,626.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	380.2	375.1	367.5	355.2	342.2	328.6	320.8	314.3	309.1	310.3	-
Final energy intensity (toe/million \$15ppp)	96.1	94.3	91.7	89.3	86.7	84.2	82.2	80.1	78.9	79.7	-
Total energy intensity (toe/million \$15ppp)	152.1	149.8	145.7	142.7	137.6	133.4	130.9	129.2	127.3	128.9	-

*Heat is included

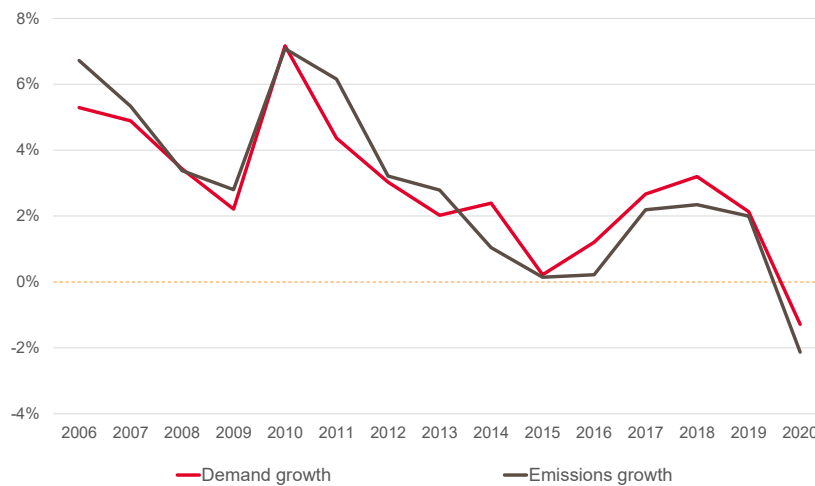
Primary energy demand mix



Electricity generation by source



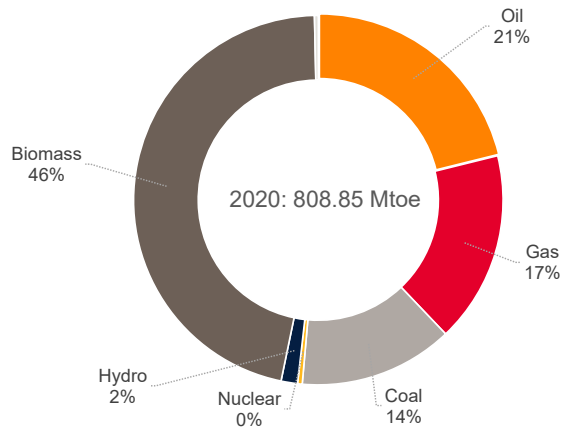
Primary energy demand and CO₂ emissions growth



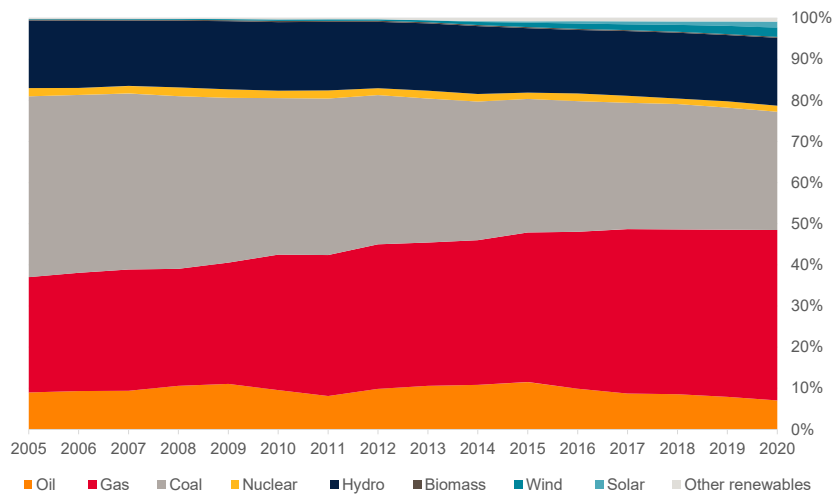
Africa (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	698.5	714.0	724.9	765.1	759.8	782.8	800.1	822.0	829.0	808.9	100.0
Oil	171.4	167.6	173.2	193.8	183.2	187.8	187.6	190.5	188.7	169.9	21.0
Gas	96.8	101.8	101.3	106.3	110.2	115.8	125.2	133.3	136.8	134.7	16.7
Coal	105.9	105.0	104.1	112.5	106.7	110.7	110.9	113.4	110.1	108.4	13.4
Nuclear	3.5	3.1	3.7	3.6	3.2	3.9	3.7	3.0	3.5	3.2	0.4
Hydro	9.6	9.6	10.1	10.5	10.3	10.3	10.8	11.3	11.6	11.6	1.4
Biomass	309.1	324.4	329.5	333.3	340.6	348.6	355.2	363.1	370.5	373.2	46.1
Other renewables	0.2	0.2	0.3	0.6	1.0	1.4	1.7	2.2	2.8	2.7	0.3
Electricity balance of trade*	2.0	2.2	2.7	4.4	4.7	4.3	5.1	5.3	4.9	5.1	0.6
Total final consumption, by source	484.9	501.7	518.4	532.1	540.2	549.3	561.9	580.0	586.0	567.1	100.0
Oil	138.7	146.6	154.5	159.6	159.2	162.9	164.8	171.8	169.5	151.3	26.7
Gas	32.5	33.0	33.3	34.5	37.2	37.3	41.2	46.6	47.8	46.5	8.2
Coal	15.7	18.3	20.1	21.3	19.8	20.3	19.8	20.8	20.9	20.8	3.7
Electricity	47.2	48.6	49.3	51.1	51.9	53.4	55.9	57.7	58.8	57.3	10.1
Heat	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Biomass	250.8	255.1	261.1	265.3	272.0	275.2	280.0	283.0	288.8	291.0	51.3
Electricity generation, by source	58.9	61.3	63.1	65.5	67.6	68.5	71.1	73.5	75.0	73.1	100.0
Oil	4.8	6.0	6.7	7.1	7.8	6.8	6.2	6.3	5.9	5.1	7.0
Gas	20.2	21.5	22.0	23.0	24.6	26.1	28.5	29.4	30.4	30.3	41.4
Coal	22.4	22.2	22.1	22.1	21.9	21.7	21.8	22.4	22.3	21.0	28.8
Nuclear	1.2	1.0	1.2	1.2	1.1	1.3	1.2	1.0	1.2	1.1	1.5
Hydro	9.8	9.9	10.3	10.8	10.6	10.6	11.2	11.8	12.1	12.1	16.5
Biomass	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Wind	0.2	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.5	1.6	2.2
Solar	0.0	0.0	0.0	0.1	0.2	0.4	0.5	0.6	0.8	1.1	1.5
Other renewables	0.2	0.2	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.8
Total final consumption, by sector	484.9	501.7	518.4	532.1	540.2	549.3	561.9	580.0	586.0	567.1	100.0
Industry	87.1	86.4	88.8	87.1	86.6	86.7	85.9	89.7	91.5	87.1	15.4
Transport	90.5	97.8	105.5	109.8	111.1	116.1	117.2	124.1	121.0	108.9	19.2
Residential/Commercial	279.8	288.5	297.1	306.1	313.1	315.8	326.3	331.7	337.6	338.4	59.7
Oil final consumption, by sector	138.7	146.6	154.5	159.6	159.2	162.9	164.8	171.8	169.5	151.3	100.0
Industry	16.4	15.3	16.9	17.9	17.3	17.4	16.6	16.6	17.3	15.1	10.0
Transport	89.7	96.9	104.6	108.9	110.3	115.3	116.4	123.3	120.2	108.1	71.4
Residential/Commercial	17.6	18.1	18.8	18.5	18.0	16.6	16.6	16.7	16.6	15.6	10.3
Natural gas final consumption, by sector	32.5	33.0	33.3	34.5	37.2	37.3	41.2	46.6	47.8	46.5	100.0
Industry	18.6	18.2	17.5	16.5	17.3	16.1	18.8	20.0	20.4	19.8	42.6
Transport	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.7
Residential/Commercial	5.6	6.6	7.5	8.1	8.9	9.2	10.0	12.1	12.5	12.3	26.5
Refined products consumption	138.7	146.6	154.5	159.6	159.2	162.9	164.8	171.8	169.5	151.3	100.0
Gasoline	41.9	45.8	48.5	50.3	51.6	54.4	54.8	55.9	50.9	45.5	30.1
Diesel	60.1	63.2	69.0	71.3	72.0	74.1	74.2	79.2	81.2	75.2	49.7
Heating Oil	7.5	6.5	6.8	7.2	6.1	5.9	5.6	5.9	6.1	4.8	3.2
Aviation Jet	2.0	1.9	2.0	1.9	2.0	2.1	2.4	2.8	2.8	1.4	1.0
LPG	12.5	13.1	12.8	12.8	13.2	13.5	13.9	14.3	14.5	14.1	9.3
Imports	135.6	139.2	147.0	159.8	161.0	170.6	166.1	161.7	160.0	151.8	100.0
Oil	129.5	132.3	140.3	152.6	148.0	155.3	151.4	151.0	151.5	139.1	91.6
Gas	6.1	6.9	6.8	7.2	13.0	15.3	14.7	10.7	8.4	12.7	8.4
Gasoline	30.2	28.4	30.8	33.0	32.5	37.1	36.8	31.1	27.7	22.7	15.0
Diesel	35.5	38.9	43.9	47.7	52.8	52.3	52.1	56.7	59.3	51.6	34.0
Heating Oil	5.6	6.2	8.0	9.4	9.1	7.7	6.9	6.7	7.9	11.8	7.8
Aviation Jet	4.0	4.2	3.9	4.1	4.5	5.2	5.9	6.0	6.8	4.2	2.8
LPG	6.0	6.3	6.3	6.9	7.4	7.9	8.2	8.7	8.9	10.6	7.0
Exports	455.0	499.7	452.3	422.9	428.8	409.5	432.4	436.8	439.3	393.4	100.0
Oil	376.5	418.4	381.4	352.5	357.4	330.9	347.4	352.4	358.1	318.7	81.0
Gas	78.5	81.3	70.9	70.4	71.4	78.6	84.9	84.4	81.1	74.6	19.0
Gasoline	1.2	1.5	1.8	1.8	1.9	2.4	2.2	2.2	2.1	2.0	0.5
Diesel	1.5	1.8	2.4	2.8	2.8	3.3	2.5	2.4	2.5	1.3	0.3
Heating Oil	9.0	8.4	10.6	9.5	9.9	10.6	9.8	8.8	7.6	7.3	1.9
Aviation Jet	2.7	3.3	4.3	3.6	4.3	2.8	3.6	3.6	3.6	5.9	1.5
LPG	8.4	7.5	7.1	9.3	9.6	9.5	9.2	9.1	9.2	9.2	2.3
CO₂ Emissions (Million tons CO₂)	1,046.2	1,107.2	1,143.3	1,194.3	1,187.7	1,204.2	1,231.9	1,275.6	1,265.1	1,179.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	212.9	220.2	218.8	220.5	212.4	210.8	208.6	209.2	201.0	193.8	-
Final energy intensity (toe/million \$15ppp)	95.2	96.2	95.9	94.7	93.3	92.6	91.5	91.3	89.3	89.7	-
Total energy intensity (toe/million \$15ppp)	142.1	142.0	138.7	141.2	135.9	137.0	135.5	134.8	131.7	132.9	-

*Heat is included

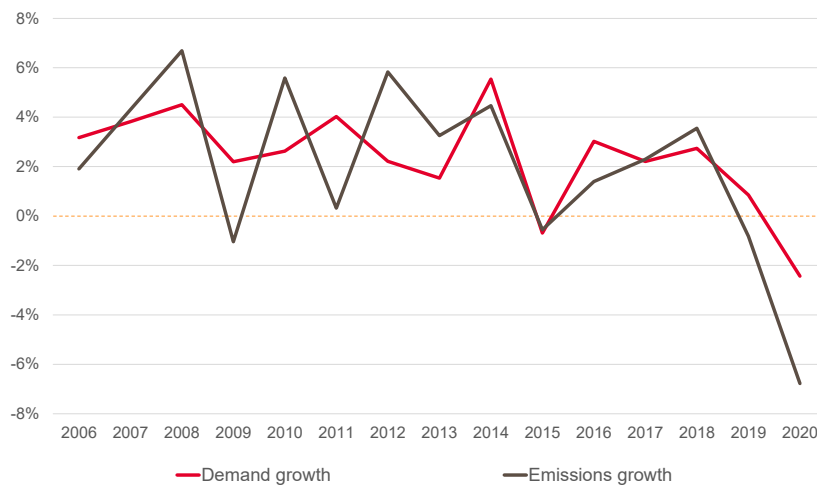
Primary energy demand mix



Electricity generation by source



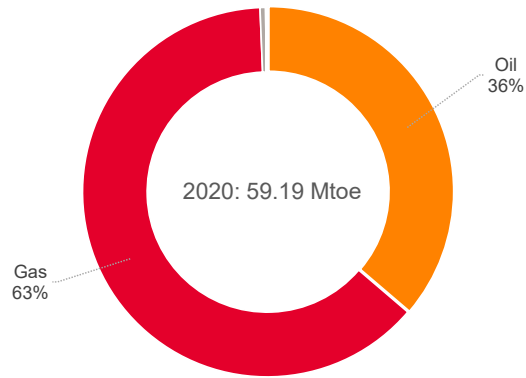
Primary energy demand and CO₂ emissions growth



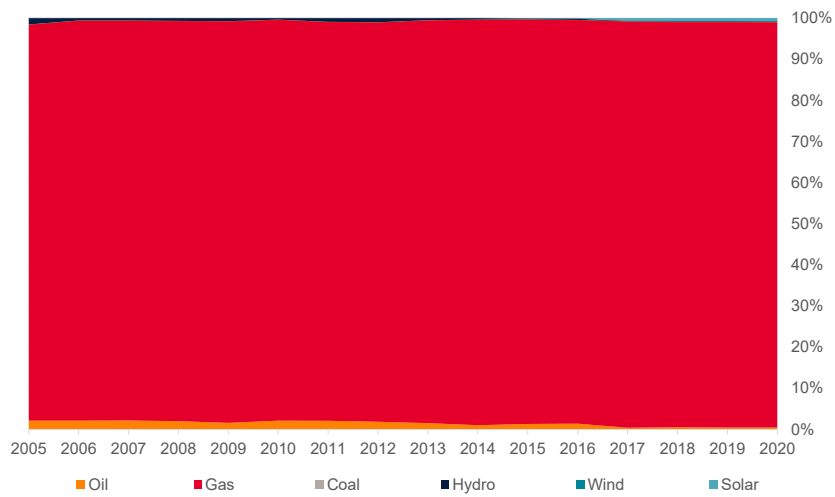
Algeria (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	43.3	47.4	49.1	53.6	56.0	55.6	57.2	60.9	65.3	59.2	100.0
Oil	18.2	19.0	20.2	21.1	21.5	20.9	21.0	21.6	24.7	21.5	36.2
Gas	24.8	28.0	28.6	32.3	34.4	34.7	35.9	38.9	40.2	37.4	63.1
Coal	0.3	0.3	0.2	0.2	0.1	0.0	0.2	0.4	0.3	0.3	0.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.1	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	0.1	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	27.5	30.8	32.4	34.6	36.9	37.1	37.7	41.8	43.3	40.5	100.0
Oil	15.0	16.6	17.4	18.1	18.4	17.9	17.7	18.0	18.9	16.5	40.8
Gas	9.1	10.5	11.0	12.5	14.1	14.8	15.0	18.4	18.9	18.7	46.1
Coal	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.3	0.2	0.2	0.5
Electricity	3.1	3.5	3.7	3.9	4.3	4.5	4.8	5.0	5.3	5.1	12.6
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	4.8	5.3	5.6	6.1	6.5	6.7	7.2	7.3	7.7	7.5	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4
Gas	4.7	5.2	5.5	6.0	6.4	6.6	7.1	7.2	7.6	7.4	98.6
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	0.1	0.0	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	0.1	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	27.5	30.8	32.4	34.6	36.9	37.1	37.7	41.8	43.3	40.5	100.0
Industry	5.4	5.3	5.4	5.5	5.9	6.0	6.6	7.0	7.8	7.5	18.4
Transport	10.9	12.4	13.0	14.1	15.0	14.5	14.3	14.6	14.7	12.7	31.2
Residential/Commercial	8.5	9.5	10.7	10.5	11.6	11.8	12.7	14.7	15.7	15.4	38.0
Oil final consumption, by sector	15.0	16.6	17.4	18.1	18.4	17.9	17.7	18.0	18.9	16.5	100.0
Industry	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.8	0.7	4.5
Transport	10.9	12.3	13.0	14.0	14.9	14.4	14.3	14.5	14.6	12.6	76.3
Residential/Commercial	2.4	2.4	2.6	1.9	2.0	1.9	2.1	2.3	2.8	2.6	15.5
Natural gas final consumption, by sector	9.1	10.5	11.0	12.5	14.1	14.8	15.0	18.4	18.9	18.7	100.0
Industry	3.0	3.0	3.1	3.2	3.4	3.6	3.9	4.3	4.9	4.8	25.6
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	4.2	5.1	5.8	6.2	7.0	7.2	7.7	9.3	9.6	9.6	51.6
Refined products consumption	15.0	16.6	17.4	18.1	18.4	17.9	17.7	18.0	18.9	16.5	100.0
Gasoline	3.2	3.7	4.1	4.4	4.7	4.6	4.4	4.2	4.2	3.6	21.6
Diesel	8.8	9.3	9.8	9.9	10.5	10.3	10.2	10.5	10.7	9.2	55.9
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3
LPG	2.4	2.5	2.4	2.2	2.2	2.2	2.3	2.6	2.8	2.7	16.2
Imports	2.4	4.9	5.5	3.5	4.4	3.9	3.8	1.0	2.5	1.3	100.0
Oil	2.4	4.9	5.5	3.5	4.4	3.9	3.8	1.0	2.5	1.3	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	0.4	1.3	1.7	1.1	1.7	1.7	1.7	0.1	0.6	0.5	43.3
Diesel	1.3	2.9	2.8	1.1	1.8	1.5	1.5	0.3	0.9	0.3	25.9
Heating Oil	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	4.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	108.2	104.6	96.9	95.0	95.0	104.6	102.1	95.1	87.3	81.0	100.0
Oil	63.4	60.0	56.6	57.0	58.0	58.7	56.2	51.3	50.9	47.0	58.0
Gas	44.8	44.5	40.3	38.0	37.0	45.9	45.9	43.7	36.4	34.0	42.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
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	5.5	4.9	5.1	6.2	6.4	6.7	6.1	5.6	5.5	5.4	6.7
Aviation Jet	0.8	0.7	1.2	1.6	1.1	1.2	1.2	1.0	0.7	1.3	1.6
LPG	7.1	6.5	6.3	8.5	8.9	8.6	8.2	7.8	7.4	7.4	9.1
CO₂ Emissions (Million tons CO₂)	104.8	115.5	118.4	127.4	135.5	133.4	134.7	143.4	148.4	135.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	251.2	267.6	266.9	276.7	283.7	270.8	269.9	283.4	290.9	280.1	-
Final energy intensity (toe/million \$15ppp)	61.3	65.0	67.2	67.1	69.5	67.3	69.1	73.5	76.8	75.6	-
Total energy intensity (toe/million \$15ppp)	103.9	109.8	110.7	116.3	117.4	112.8	114.6	120.4	127.9	122.7	-

*Heat is included

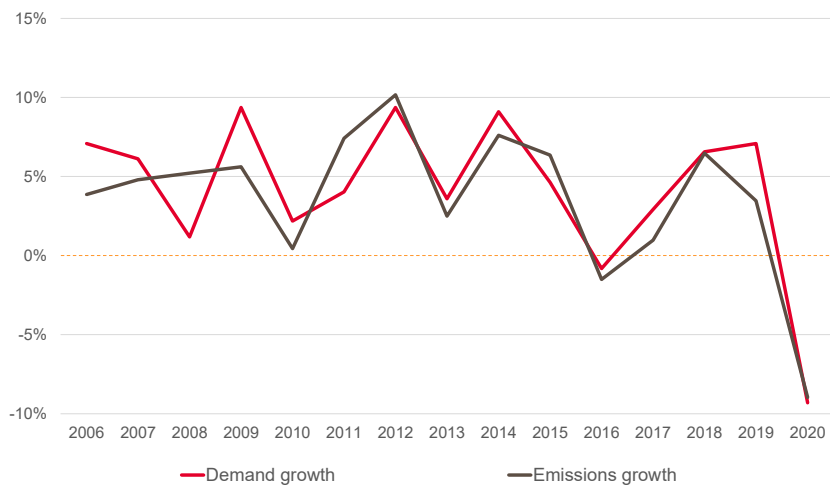
Primary energy demand mix



Electricity generation by source



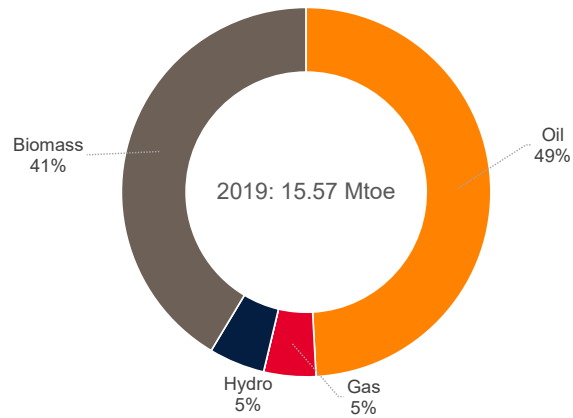
Primary energy demand and CO₂ emissions growth



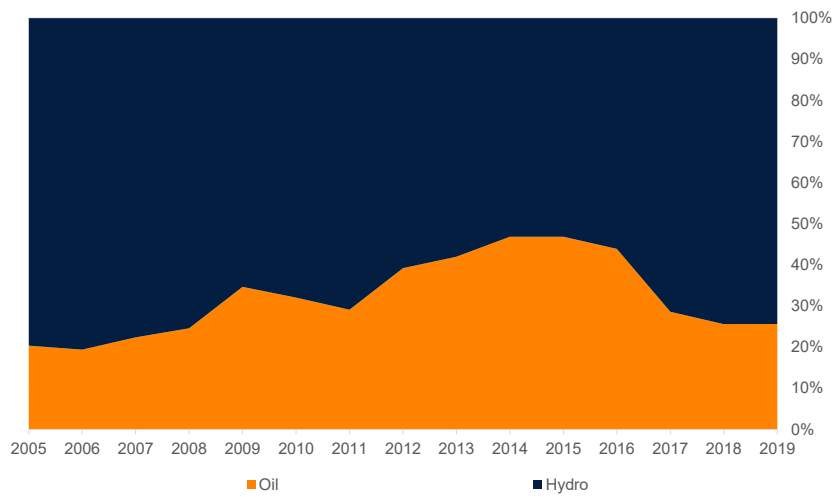
Angola (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	11.6	13.1	13.2	17.4	15.3	14.7	14.7	15.4	15.6	n.d.	n.d.
Oil	4.9	6.3	6.5	10.7	8.1	7.4	7.1	7.6	7.6	n.d.	n.d.
Gas	0.6	0.6	0.3	0.3	0.6	0.7	0.7	0.7	0.7	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	0.3	0.3	0.4	0.4	0.4	0.5	0.7	0.8	0.8	n.d.	n.d.
Biomass	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Electricity balance of trade*	0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	n.d.	n.d.
Total final consumption, by source	9.6	9.8	10.4	10.5	10.7	10.7	9.7	9.8	10.0	n.d.	n.d.
Oil	4.2	4.3	5.0	5.0	4.7	4.6	3.8	3.8	3.9	n.d.	n.d.
Gas	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.3	0.3	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Electricity	0.4	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	n.d.	n.d.
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	4.3	4.4	4.5	4.6	4.6	4.7	4.8	4.8	4.9	n.d.	n.d.
Electricity generation, by source	0.5	0.5	0.7	0.8	0.8	0.9	0.9	1.0	1.0	n.d.	n.d.
Oil	0.1	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	0.3	0.3	0.4	0.4	0.4	0.5	0.7	0.8	0.8	n.d.	n.d.
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	n.d.	n.d.
Total final consumption, by sector	9.6	9.8	10.4	10.5	10.7	10.7	9.7	9.8	10.0	n.d.	n.d.
Industry	1.2	1.1	0.9	0.9	1.2	1.3	0.9	0.9	0.9	n.d.	n.d.
Transport	2.5	2.3	2.6	2.7	2.7	2.7	2.3	2.4	2.4	n.d.	n.d.
Residential/Commercial	5.8	6.1	6.6	6.6	6.5	6.5	6.3	6.4	6.4	0.0	0.0
Oil final consumption, by sector	4.2	4.3	5.0	5.0	4.7	4.6	3.8	3.8	3.9	n.d.	n.d.
Industry	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	n.d.	n.d.
Transport	2.5	2.3	2.6	2.7	2.7	2.7	2.3	2.4	2.4	n.d.	n.d.
Residential/Commercial	1.3	1.4	1.8	1.7	1.5	1.4	1.1	1.1	1.1	n.d.	n.d.
Natural gas final consumption, by sector	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.3	0.3	n.d.	n.d.
Industry	0.6	0.6	0.3	0.2	0.6	0.6	0.3	0.3	0.3	n.d.	n.d.
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Refined products consumption	4.2	4.3	5.0	5.0	4.7	4.6	3.8	3.8	3.9	n.d.	n.d.
Gasoline	1.1	1.1	1.0	1.1	1.0	0.9	0.7	0.7	0.7	n.d.	n.d.
Diesel	2.4	2.5	3.2	3.2	3.1	3.0	2.4	2.4	2.4	n.d.	n.d.
Heating Oil	0.1	0.0	0.1	0.1	0.0	0.2	0.1	0.1	0.1	n.d.	n.d.
Aviation Jet	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
LPG	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	n.d.	n.d.
Imports	3.7	4.8	4.9	5.8	5.4	5.5	5.2	3.9	3.6	n.d.	n.d.
Oil	3.7	4.8	4.9	5.8	5.4	5.5	5.2	3.9	3.6	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	1.0	1.4	1.1	1.5	1.3	1.1	1.1	1.2	1.1	n.d.	n.d.
Diesel	2.3	3.0	3.3	3.7	3.6	3.6	3.0	2.0	1.8	n.d.	n.d.
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Aviation Jet	0.3	0.1	0.1	0.1	0.1	0.4	0.4	0.1	0.1	n.d.	n.d.
LPG	0.0	0.1	0.1	0.1	0.2	0.1	0.4	0.4	0.4	n.d.	n.d.
Exports	79.8	85.6	86.4	83.2	88.3	85.3	81.5	74.2	69.7	n.d.	n.d.
Oil	79.8	85.6	86.0	82.9	88.3	84.6	77.5	69.8	64.9	n.d.	n.d.
Gas	0.0	0.0	0.4	0.4	0.0	0.7	4.1	4.4	4.8	n.d.	n.d.
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Heating Oil	0.2	0.2	0.4	0.4	0.6	0.6	0.6	0.4	0.3	n.d.	n.d.
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
LPG	0.5	0.1	0.1	0.2	0.1	0.0	0.2	0.4	0.3	n.d.	n.d.
CO₂ Emissions (Million tons CO₂)	16.2	16.6	19.4	21.0	21.7	21.6	19.0	18.9	19.8	n.d.	n.d.
CO₂ Intensity (tCO₂/million \$15ppp)	95.7	90.0	100.4	103.8	105.9	108.3	95.5	97.1	102.8	n.d.	n.d.
Final energy intensity (toe/million \$15ppp)	55.6	51.6	52.3	50.5	51.2	52.5	47.7	49.5	50.7	n.d.	n.d.
Total energy intensity (toe/million \$15ppp)	68.5	71.0	68.1	85.8	74.7	73.9	73.8	79.0	80.7	n.d.	n.d.

*Heat is included

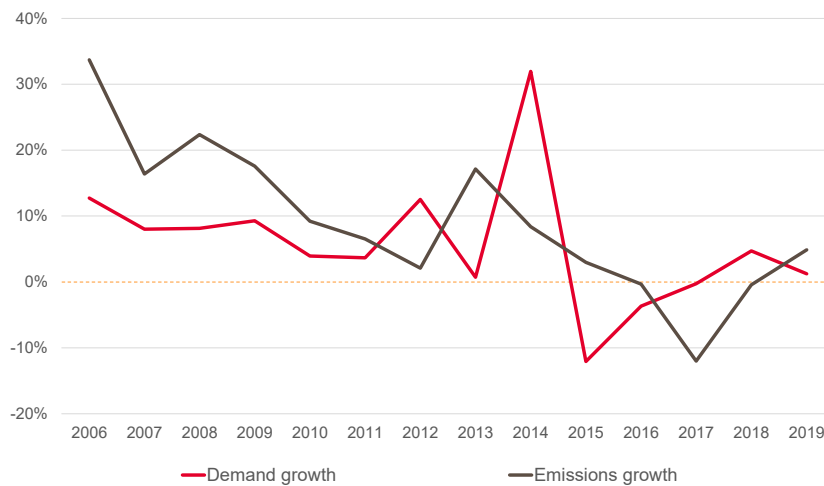
Primary energy demand mix



Electricity generation by source



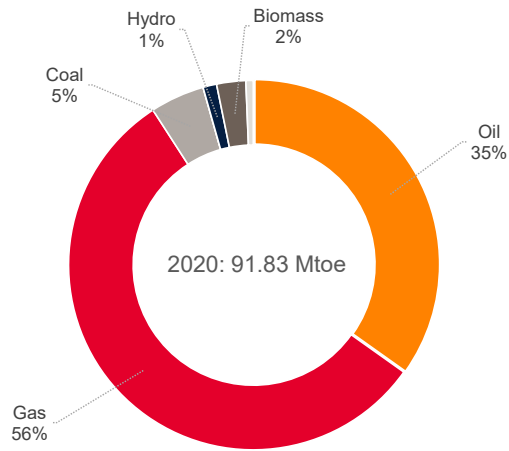
Primary energy demand and CO₂ emissions growth



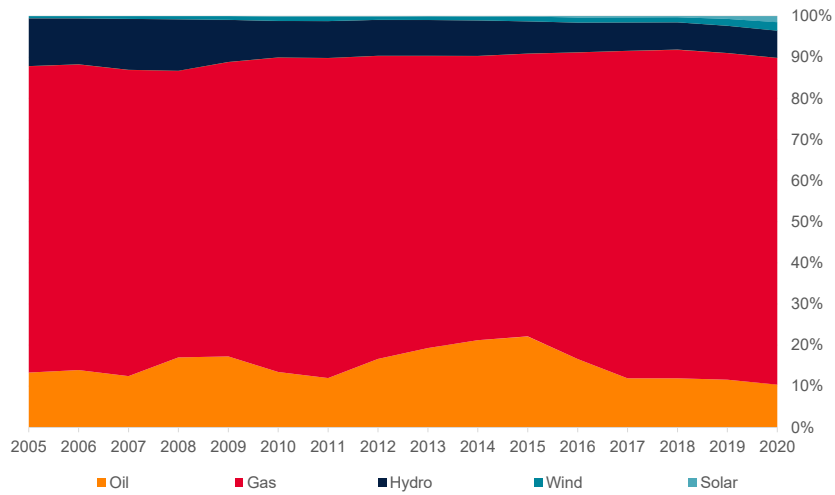
Egypt (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	76.9	79.2	77.7	80.5	80.6	88.1	93.0	95.6	97.1	91.8	100.0
Oil	34.0	36.2	36.1	41.4	39.0	40.9	38.7	36.6	36.0	32.0	34.8
Gas	39.0	39.1	37.6	34.9	36.8	41.5	48.9	52.0	53.0	51.5	56.0
Coal	0.4	0.4	0.4	0.6	1.3	2.1	1.7	3.3	4.3	4.4	4.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2
Biomass	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
Other renewables	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.6	0.6
Electricity balance of trade*	-0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	54.1	54.7	53.0	52.7	55.0	57.0	58.8	60.7	62.9	58.9	100.0
Oil	29.7	30.1	28.7	30.1	30.0	31.0	29.7	28.8	29.3	26.2	44.5
Gas	11.8	12.0	11.9	9.1	10.5	11.0	13.4	14.0	14.6	13.8	23.5
Coal	0.4	0.4	0.4	0.6	1.3	2.0	1.7	3.3	4.3	4.3	7.4
Electricity	10.7	10.8	10.6	11.5	11.9	11.6	12.6	13.2	13.3	13.2	22.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.3
Electricity generation, by source	12.4	12.9	13.2	13.8	14.9	15.2	15.9	16.7	16.8	16.6	100.0
Oil	1.5	2.1	2.5	2.9	3.3	2.5	1.9	2.0	1.9	1.7	10.4
Gas	9.6	9.5	9.4	9.5	10.2	11.4	12.7	13.3	13.3	13.2	79.4
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	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	6.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	2.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	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	54.1	54.7	53.0	52.7	55.0	57.0	58.8	60.7	62.9	58.9	100.0
Industry	14.3	13.7	14.6	13.6	14.5	15.1	16.0	17.7	19.3	18.0	30.6
Transport	15.6	17.0	17.1	17.9	18.3	19.1	18.6	18.0	18.2	16.6	28.2
Residential/Commercial	14.8	14.2	14.2	15.1	15.7	15.2	16.1	16.6	16.1	15.8	26.8
Oil final consumption, by sector	29.7	30.1	28.7	30.1	30.0	31.0	29.7	28.8	29.3	26.2	100.0
Industry	5.1	3.7	4.9	5.4	4.8	5.0	4.4	4.3	4.7	3.9	15.1
Transport	15.2	16.5	16.7	17.5	18.0	18.8	18.2	17.6	17.8	16.2	61.9
Residential/Commercial	5.0	4.8	4.7	4.7	4.8	4.8	4.6	4.5	4.3	4.2	16.1
Natural gas final consumption, by sector	11.8	12.0	11.9	9.1	10.5	11.0	13.4	14.0	14.6	13.8	100.0
Industry	5.9	6.2	6.1	4.3	5.1	4.5	6.2	6.2	6.4	6.1	44.2
Transport	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	2.5
Residential/Commercial	1.0	1.1	1.3	1.5	1.5	1.7	1.9	2.2	2.3	2.2	15.9
Refined products consumption	29.7	30.1	28.7	30.1	30.0	31.0	29.7	28.8	29.3	26.2	100.0
Gasoline	6.1	6.5	6.3	6.8	7.3	7.8	7.6	7.6	7.7	7.1	27.2
Diesel	12.5	12.9	12.9	13.3	13.3	14.0	13.5	12.6	12.6	11.7	44.5
Heating Oil	3.3	2.5	2.6	3.1	2.4	2.3	1.8	1.9	2.4	1.7	6.6
Aviation Jet	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.4	1.6
LPG	4.9	4.8	4.7	4.7	4.8	4.8	4.6	4.5	4.3	4.2	16.2
Imports	12.1	13.0	15.9	20.6	25.5	30.3	25.9	20.7	16.5	17.4	100.0
Oil	12.1	13.0	15.9	20.6	19.8	22.5	19.3	18.2	16.4	15.7	90.2
Gas	0.0	0.0	0.0	0.0	5.7	7.8	6.6	2.5	0.1	1.7	9.8
Gasoline	1.3	1.3	1.7	2.3	2.7	3.1	2.9	2.6	2.3	1.4	8.1
Diesel	4.7	5.2	6.0	6.5	7.3	8.1	7.0	6.3	6.1	2.1	12.0
Heating Oil	0.7	1.0	2.9	4.1	3.7	2.2	0.5	0.5	0.2	0.2	1.4
Aviation Jet	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.5	2.3	2.3	2.5	2.6	2.8	2.6	2.6	2.5	2.4	13.6
Exports	20.0	17.1	15.6	14.3	15.5	14.4	13.6	14.3	14.6	14.0	100.0
Oil	13.0	12.0	13.9	14.0	15.2	13.3	12.7	12.5	10.5	12.8	91.6
Gas	7.0	5.1	1.7	0.3	0.2	1.1	1.0	1.7	4.1	1.2	8.4
Gasoline	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.2	0.3	0.1	0.9
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	0.2	0.0	0.0	0.0	0.0	0.0	0.3
Aviation Jet	0.2	0.3	0.5	0.5	1.0	0.9	1.0	1.3	1.3	1.9	13.9
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)	190.0	196.4	195.8	199.0	208.9	217.8	224.5	231.8	237.2	225.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	203.1	205.4	200.4	197.9	199.0	198.9	196.8	192.9	187.0	171.2	-
Final energy intensity (toe/million \$15ppp)	50.7	49.9	48.5	47.8	47.6	46.6	45.8	44.8	44.0	40.1	-
Total energy intensity (toe/million \$15ppp)	82.2	82.9	79.5	80.0	76.8	80.5	81.5	79.5	76.6	69.9	-

*Heat is included

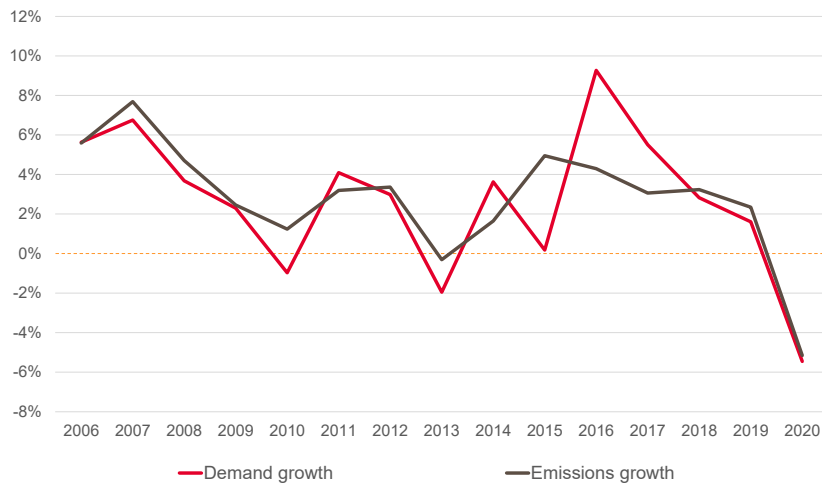
Primary energy demand mix



Electricity generation by source



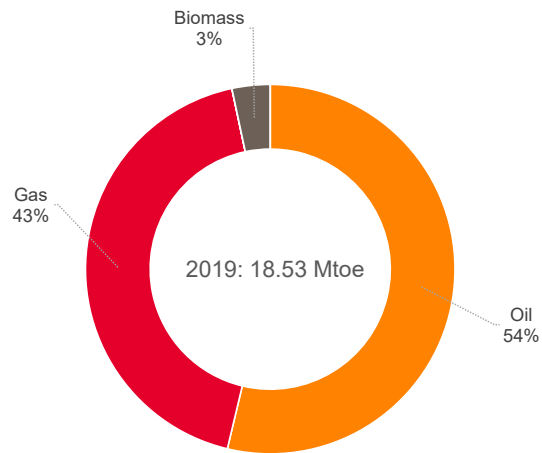
Primary energy demand and CO₂ emissions growth



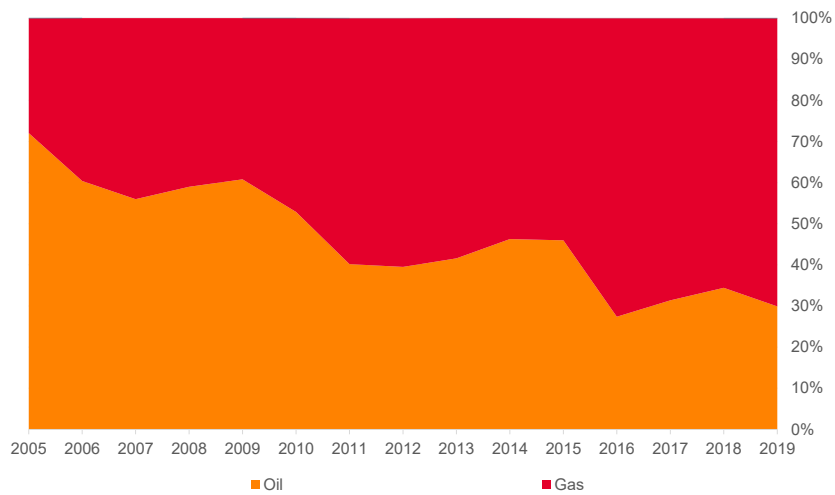
Libya (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	17.2	17.0	15.1	23.3	18.8	18.6	18.0	17.9	18.5	n.d.	n.d.
Oil	12.2	11.8	8.7	14.5	11.3	9.2	9.5	9.6	9.7	n.d.	n.d.
Gas	4.4	4.7	5.8	8.2	6.8	8.8	7.9	7.7	8.2	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Electricity balance of trade*	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Total final consumption, by source	8.3	9.9	11.2	13.7	11.2	12.0	12.7	13.4	14.0	n.d.	n.d.
Oil	5.8	8.0	8.7	8.5	6.5	7.5	7.3	7.4	7.8	n.d.	n.d.
Gas	0.9	0.1	0.7	3.5	3.1	3.1	3.9	4.2	4.3	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Electricity	1.4	1.6	1.6	1.5	1.3	1.2	1.2	1.5	1.6	n.d.	n.d.
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	n.d.	n.d.
Electricity generation, by source	2.2	2.9	3.3	3.2	3.2	2.7	2.9	2.9	3.0	n.d.	n.d.
Oil	0.9	1.2	1.4	1.5	1.5	0.7	0.9	1.0	0.9	n.d.	n.d.
Gas	1.3	1.8	1.9	1.7	1.7	2.0	2.0	1.9	2.1	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	n.d.	n.d.
Total final consumption, by sector	8.3	9.9	11.2	13.7	11.2	12.0	12.7	13.4	14.0	n.d.	n.d.
Industry	0.6	0.5	1.1	2.1	1.7	1.6	1.9	2.1	2.2	n.d.	n.d.
Transport	4.6	5.7	6.0	6.6	5.1	6.2	5.8	5.7	6.0	n.d.	n.d.
Residential/Comercial	1.7	2.3	2.3	2.0	1.7	1.7	1.7	2.0	2.1	0.0	0.0
Oil final consumption, by sector	5.8	8.0	8.7	8.5	6.5	7.5	7.3	7.4	7.8	n.d.	n.d.
Industry	0.2	0.4	0.7	0.7	0.4	0.4	0.4	0.5	0.6	n.d.	n.d.
Transport	4.6	5.7	6.0	6.6	5.1	6.2	5.8	5.7	6.0	n.d.	n.d.
Residential/Comercial	0.4	0.7	0.7	0.6	0.4	0.4	0.4	0.4	0.5	n.d.	n.d.
Natural gas final consumption, by sector	0.9	0.1	0.7	3.5	3.1	3.1	3.9	4.2	4.3	n.d.	n.d.
Industry	0.3	0.0	0.2	1.2	1.1	1.1	1.4	1.5	1.5	n.d.	n.d.
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Residential/Comercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Refined products consumption	5.8	8.0	8.7	8.5	6.5	7.5	7.3	7.4	7.8	n.d.	n.d.
Gasoline	2.7	3.7	4.1	4.1	4.0	4.2	4.2	4.2	4.3	n.d.	n.d.
Diesel	1.8	2.0	1.9	2.5	1.1	1.9	1.6	1.4	1.7	n.d.	n.d.
Heating Oil	0.2	0.4	0.7	0.7	0.4	0.4	0.4	0.5	0.6	n.d.	n.d.
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
LPG	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	n.d.	n.d.
Imports	4.0	5.1	5.9	8.2	6.9	6.2	6.0	5.8	5.8	n.d.	n.d.
Oil	4.0	5.1	5.9	8.2	6.9	6.2	6.0	5.8	5.8	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	2.1	3.0	3.4	3.5	3.5	3.8	3.7	3.8	3.9	n.d.	n.d.
Diesel	1.8	1.7	2.2	4.4	3.3	2.2	2.1	1.9	1.9	n.d.	n.d.
Heating Oil	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Exports	19.7	75.2	54.5	24.9	23.3	21.6	46.3	57.8	62.4	n.d.	n.d.
Oil	17.8	69.9	49.9	19.6	17.5	17.7	42.6	54.1	57.7	n.d.	n.d.
Gas	2.0	5.3	4.7	5.3	5.8	3.9	3.8	3.7	4.7	n.d.	n.d.
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Heating Oil	0.4	0.3	2.1	0.0	0.3	0.4	0.3	0.2	0.2	n.d.	n.d.
Aviation Jet	0.7	0.8	1.1	0.4	0.3	0.2	0.4	0.6	0.6	n.d.	n.d.
LPG	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	n.d.	n.d.
CO₂ Emissions (Million tons CO₂)	35.7	45.2	49.8	54.7	48.8	47.3	49.3	50.4	52.3	n.d.	n.d.
CO₂ Intensity (tCO₂/million \$15ppp)	607.8	344.8	440.0	635.5	622.3	620.2	510.5	483.4	456.3	n.d.	n.d.
Final energy intensity (toe/million \$15ppp)	120.5	65.9	83.4	125.5	110.0	125.5	99.0	94.4	90.5	n.d.	n.d.
Total energy intensity (toe/million \$15ppp)	292.8	130.1	133.5	270.8	239.2	243.7	186.9	171.6	161.7	n.d.	n.d.

*Heat is included

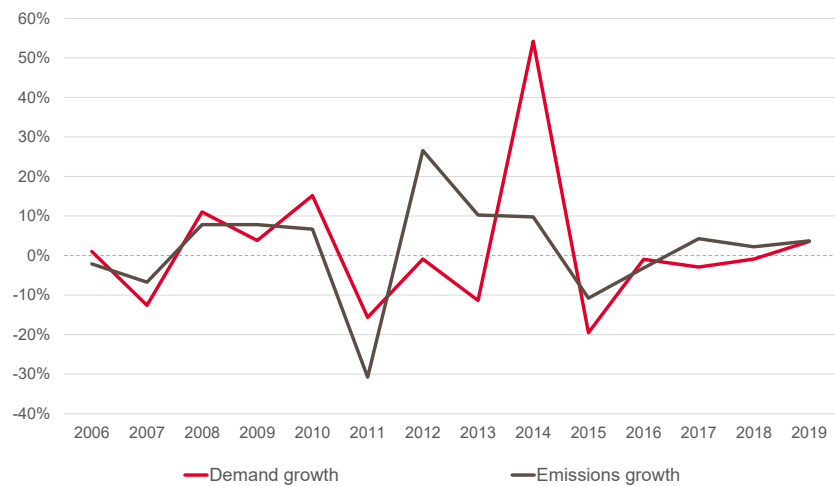
Primary energy demand mix



Electricity generation by source



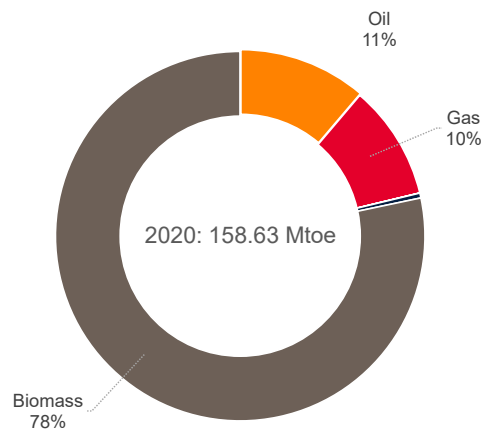
Primary energy demand and CO₂ emissions growth



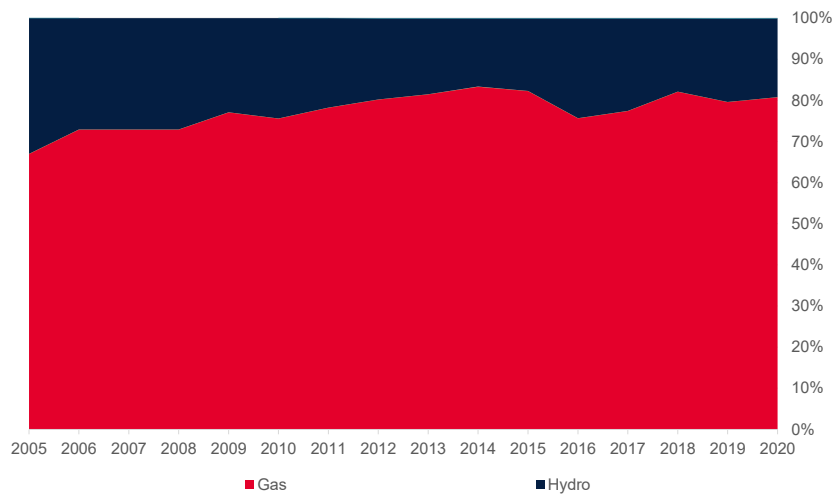
Nigeria (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	138.9	140.3	143.0	146.6	145.2	149.7	152.3	160.1	157.4	158.6	100.0
Oil	24.0	19.3	21.4	23.2	19.0	21.3	20.5	23.7	18.1	17.8	11.2
Gas	12.2	12.6	12.5	14.3	14.2	13.5	14.2	15.8	15.5	15.9	10.0
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	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.7	0.7	0.4
Biomass	102.1	107.9	108.5	108.6	111.5	114.1	117.0	120.0	123.1	124.2	78.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	113.1	118.7	123.6	126.0	126.8	129.6	132.4	140.9	138.2	139.1	100.0
Oil	13.1	14.4	18.0	20.1	18.2	19.0	18.9	24.1	18.4	18.2	13.0
Gas	3.5	3.1	3.3	3.8	3.8	3.3	3.5	3.9	3.9	3.9	2.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2.0	2.2	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.5	1.8
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	94.4	99.1	100.2	100.1	102.7	105.2	107.8	110.6	113.5	114.5	82.3
Electricity generation, by source	2.3	2.5	2.5	2.8	2.8	2.9	3.0	3.1	3.3	3.5	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	1.8	2.0	2.0	2.3	2.3	2.2	2.3	2.6	2.6	2.8	80.8
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	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.7	0.7	19.1
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	113.1	118.7	123.6	126.0	126.8	129.6	132.4	140.9	138.2	139.1	100.0
Industry	9.8	10.1	9.9	7.3	7.4	7.0	7.1	7.5	7.4	7.4	5.3
Transport	10.9	12.0	15.2	16.7	15.2	17.4	17.4	22.7	17.5	17.4	12.5
Residential/Commercial	91.4	95.4	97.2	100.4	102.7	103.8	106.5	109.2	111.8	112.8	81.1
Oil final consumption, by sector	13.1	14.4	18.0	20.1	18.2	19.0	18.9	24.1	18.4	18.2	100.0
Industry	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.1	0.1	0.6
Transport	10.9	12.0	15.2	16.7	15.2	17.4	17.4	22.7	17.5	17.4	96.1
Residential/Commercial	1.9	1.9	2.3	2.7	2.3	0.8	0.9	0.8	0.6	0.5	2.7
Natural gas final consumption, by sector	3.5	3.1	3.3	3.8	3.8	3.3	3.5	3.9	3.9	3.9	100.0
Industry	2.6	2.0	2.1	2.5	2.4	2.1	2.3	2.5	2.5	2.5	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	13.1	14.4	18.0	20.1	18.2	19.0	18.9	24.1	18.4	18.2	100.0
Gasoline	10.0	11.3	12.5	13.7	12.5	13.7	13.7	14.4	9.3	9.0	49.5
Diesel	0.7	0.6	2.5	2.9	2.6	3.5	3.5	8.0	8.1	8.4	46.0
Heating Oil	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.1	0.1	0.6
Aviation Jet	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.6
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.7
Imports	20.2	15.9	17.7	20.6	17.3	19.9	18.5	20.6	19.0	19.2	100.0
Oil	20.2	15.9	17.7	20.6	17.3	19.9	18.5	20.6	19.0	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	16.3	12.1	13.3	14.5	11.1	14.5	13.3	8.6	5.4	4.5	23.6
Diesel	2.1	1.9	2.2	3.4	3.9	4.0	3.8	10.3	10.7	11.2	58.3
Heating Oil	0.1	0.1	0.0	0.1	0.1	0.3	0.3	0.5	1.2	1.9	10.0
Aviation Jet	0.5	0.6	0.4	0.4	0.4	0.6	0.7	0.9	1.4	0.6	3.3
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	3.3
Exports	139.4	142.6	125.4	129.4	129.7	110.0	114.4	117.8	123.8	109.4	100.0
Oil	120.3	121.6	107.6	109.1	108.2	90.5	91.8	95.5	100.8	86.2	78.8
Gas	19.1	21.0	17.8	20.4	21.5	19.4	22.7	22.3	23.0	23.2	21.2
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	0.7	0.4	0.3	0.3	0.1	0.2	0.5	0.1	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)	67.9	72.3	82.8	91.3	84.9	86.4	88.1	106.7	89.0	89.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	83.9	85.7	91.9	95.4	86.5	89.4	90.5	107.4	87.7	90.9	-
Final energy intensity (toe/million \$15ppp)	138.4	139.3	135.9	130.1	127.5	132.6	134.5	140.3	134.7	140.1	-
Total energy intensity (toe/million \$15ppp)	171.6	166.2	158.8	153.1	147.8	154.8	156.3	161.2	155.0	161.4	-

*Heat is included

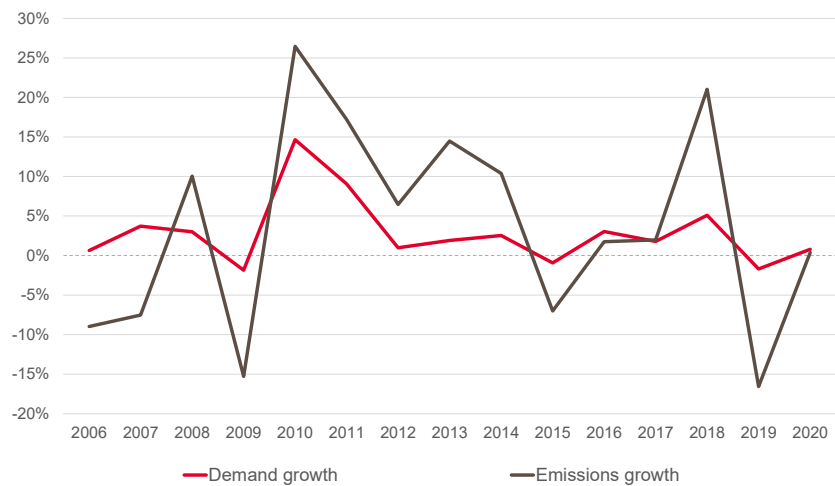
Primary energy demand mix



Electricity generation by source



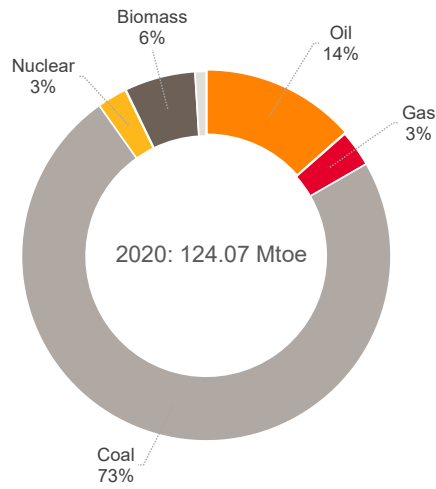
Primary energy demand and CO₂ emissions growth



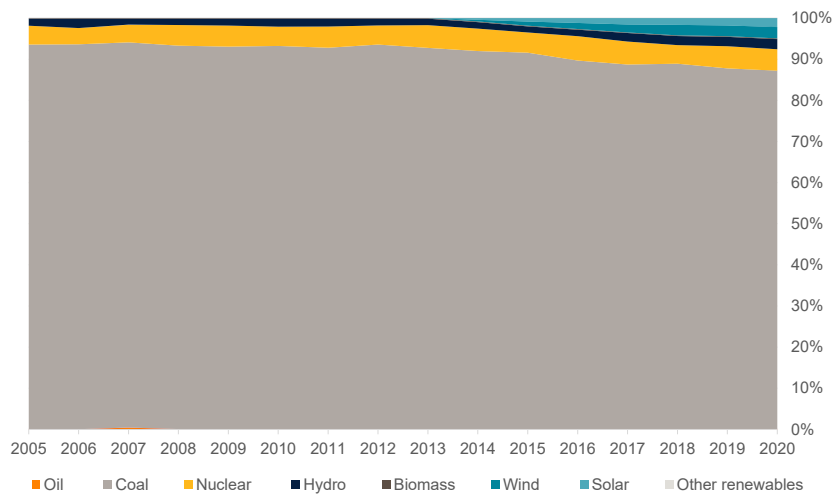
South Africa (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	136.9	131.0	129.9	137.7	128.8	135.1	135.9	134.2	128.9	124.1	100.0
Oil	22.2	18.4	18.2	20.0	18.3	19.9	20.9	20.1	20.0	16.8	13.5
Gas	3.8	4.0	4.1	3.9	4.3	4.4	4.2	4.0	4.0	3.9	3.2
Coal	98.6	97.2	95.9	102.1	94.7	98.7	98.7	98.3	92.6	91.4	73.6
Nuclear	3.5	3.1	3.7	3.6	3.2	3.9	3.7	3.0	3.5	3.2	2.6
Hydro	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Biomass	8.8	8.5	8.1	8.0	7.9	7.9	7.9	7.9	7.9	7.7	6.2
Other renewables	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.2	1.2	1.0
Electricity balance of trade*	-0.2	-0.4	-0.3	-0.1	-0.0	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2
Total final consumption, by source	64.1	65.6	68.5	68.4	66.7	66.4	68.8	68.2	67.1	61.6	100.0
Oil	24.0	23.8	25.3	24.8	25.7	24.6	27.3	27.2	27.1	22.7	36.9
Gas	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.4	3.8
Coal	13.7	16.2	17.9	18.5	16.3	16.0	15.6	14.9	14.1	13.9	22.6
Electricity	17.6	17.0	16.9	16.8	16.4	17.6	17.5	17.7	17.5	16.7	27.1
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	6.5	6.3	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.7	9.3
Electricity generation, by source	22.6	22.2	22.0	21.7	21.5	21.7	21.9	22.0	21.7	20.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	20.9	20.7	20.4	20.0	19.7	19.5	19.5	19.6	19.0	18.0	87.2
Nuclear	1.2	1.0	1.2	1.2	1.1	1.3	1.2	1.0	1.2	1.1	5.2
Hydro	0.4	0.4	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	2.5
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Wind	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.6	0.6	2.7
Solar	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.5	2.2
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	64.1	65.6	68.5	68.4	66.7	66.4	68.8	68.2	67.1	61.6	100.0
Industry	25.6	25.6	27.1	27.5	26.0	25.7	24.9	25.3	24.6	23.7	38.5
Transport	16.8	16.9	18.4	17.5	18.3	17.5	19.3	19.3	19.3	16.1	26.1
Residential/Commercial	14.8	16.4	16.4	16.3	15.7	16.5	16.9	16.2	15.8	15.5	25.1
Oil final consumption, by sector	24.0	23.8	25.3	24.8	25.7	24.6	27.3	27.2	27.1	22.7	100.0
Industry	1.7	1.9	2.0	2.1	2.3	2.1	1.8	1.9	1.8	1.7	7.5
Transport	16.5	16.6	18.1	17.2	18.0	17.2	19.0	19.0	19.0	15.8	69.6
Residential/Commercial	0.9	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7	2.9
Natural gas final consumption, by sector	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.4	100.0
Industry	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	98.6
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	1.4
Refined products consumption	24.0	23.8	25.3	24.8	25.7	24.6	27.3	27.2	27.1	22.7	100.0
Gasoline	9.2	9.1	9.4	8.5	8.9	8.9	9.3	9.1	8.8	7.2	31.6
Diesel	9.9	10.0	11.4	11.4	12.0	10.8	11.8	11.8	12.1	11.0	48.2
Heating Oil	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.5	2.1
Aviation Jet	0.5	0.5	0.5	0.5	0.7	0.8	1.1	1.2	1.3	0.6	2.5
LPG	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	1.3
Imports	30.9	28.9	29.2	31.5	30.3	31.4	31.6	32.6	30.6	28.8	100.0
Oil	28.2	25.8	26.1	28.4	27.0	27.9	28.0	29.5	27.6	25.8	89.7
Gas	2.7	3.1	3.1	3.1	3.3	3.5	3.5	3.1	3.0	3.0	10.3
Gasoline	1.9	1.4	1.2	0.9	1.5	1.1	1.6	1.7	1.2	1.3	4.6
Diesel	3.3	3.3	4.4	4.5	5.8	3.9	5.4	5.4	5.2	6.3	21.9
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.7
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.3	0.4	0.5	1.6
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.5
Exports	2.0	2.8	3.6	3.3	4.5	4.1	4.3	4.6	4.1	3.3	100.0
Oil	2.0	2.8	3.6	3.3	4.5	4.1	4.3	4.6	4.1	3.3	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	0.2	0.3	0.7	0.8	0.8	0.9	0.8	1.0	0.9	0.9	27.7
Diesel	0.5	0.8	1.4	1.3	1.4	1.7	1.6	1.6	1.6	0.8	25.7
Heating Oil	1.0	1.2	1.1	0.9	1.2	1.0	0.9	1.0	0.7	0.5	16.4
Aviation Jet	0.1	0.1	0.1	0.1	0.7	0.3	0.3	0.4	0.3	0.6	17.0
LPG	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.9
CO₂ Emissions (Million tons CO₂)	414.3	431.3	441.0	453.2	428.1	429.7	436.7	433.8	422.1	394.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	643.5	655.4	653.9	659.8	615.8	615.8	617.0	608.2	590.9	595.4	-
Final energy intensity (toe/million \$15ppp)	93.1	93.9	96.2	93.5	90.7	89.5	90.4	89.2	87.7	87.4	-
Total energy intensity (toe/million \$15ppp)	212.7	199.0	192.6	200.5	185.3	193.6	192.0	188.2	180.5	187.2	-

*Heat is included

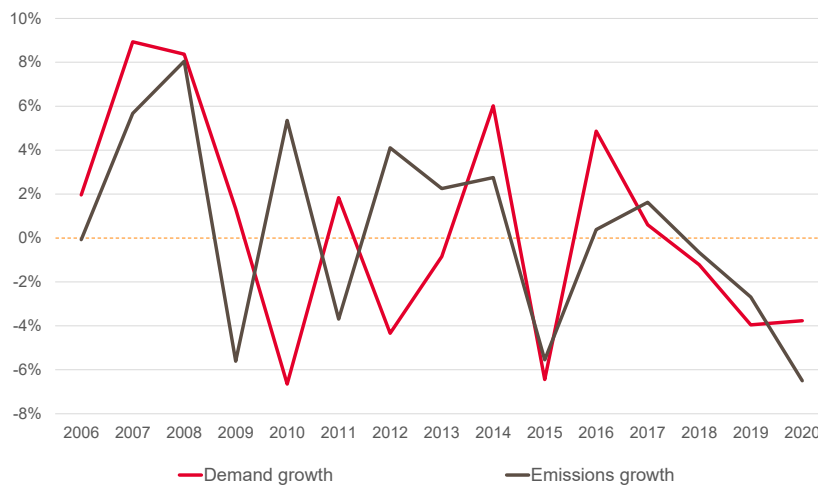
Primary energy demand mix



Electricity generation by source



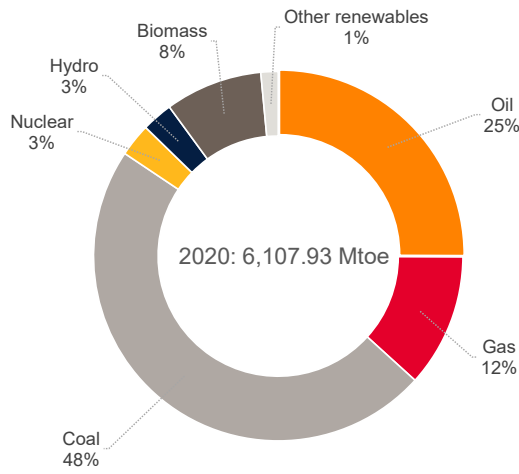
Primary energy demand and CO₂ emissions growth



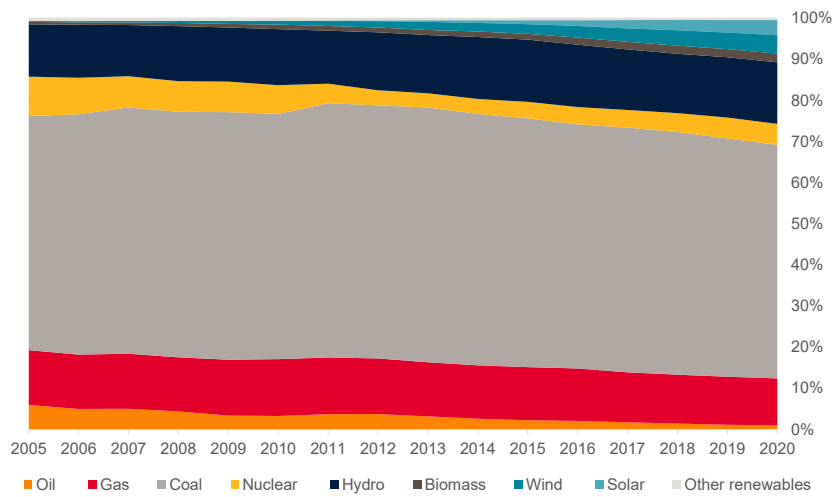
Asia-Pacific (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	5,164.5	5,310.4	5,440.4	5,560.5	5,610.0	5,650.6	5,804.3	6,004.4	6,138.7	6,107.9	100.0
Oil	1,230.7	1,287.0	1,314.1	1,339.5	1,388.3	1,424.3	1,462.2	1,519.2	1,547.8	1,510.4	24.7
Gas	518.1	540.3	570.3	586.9	585.4	603.5	628.9	677.3	698.4	702.2	11.5
Coal	2,634.7	2,708.8	2,767.1	2,815.9	2,796.0	2,738.5	2,797.7	2,856.2	2,895.2	2,871.1	47.0
Nuclear	110.1	89.0	88.8	97.3	110.4	122.5	130.3	148.4	169.8	173.0	2.8
Hydro	96.7	110.7	118.3	130.8	135.0	141.1	144.1	149.9	157.2	162.9	2.7
Biomass	513.0	506.3	500.7	500.5	495.9	508.9	511.7	507.0	512.0	513.7	8.4
Other renewables	10.5	14.0	20.0	24.2	30.0	40.5	53.1	66.7	78.2	91.0	1.5
Electricity balance of trade*	50.7	54.3	61.1	65.5	69.0	71.3	76.3	79.7	80.1	83.5	1.4
Total final consumption, by source	3,583.4	3,687.4	3,784.4	3,850.1	3,910.0	3,959.8	4,043.2	4,114.6	4,221.1	4,182.6	100.0
Oil	1,063.0	1,111.6	1,151.3	1,176.1	1,229.6	1,260.1	1,308.9	1,338.3	1,374.0	1,331.1	31.8
Gas	231.0	246.8	262.4	268.6	268.2	282.2	306.6	335.0	346.9	355.4	8.5
Coal	1,101.6	1,110.3	1,113.4	1,117.6	1,104.5	1,065.2	1,027.9	993.9	1,015.4	997.5	23.8
Electricity	637.0	669.5	709.7	739.8	760.8	803.0	845.3	897.7	925.0	938.2	22.4
Heat	90.3	98.9	109.2	114.5	121.9	131.1	139.0	148.9	157.8	167.7	4.0
Biomass	460.6	450.3	438.4	433.6	425.2	418.3	415.6	400.9	402.0	392.7	9.4
Electricity generation, by source	766.0	799.1	849.2	881.5	906.4	955.8	1,004.1	1,068.0	1,100.3	1,118.6	100.0
Oil	28.3	29.8	26.8	22.8	20.1	19.5	17.2	15.2	12.3	10.9	1.0
Gas	105.7	108.0	111.8	114.4	117.0	122.0	121.9	126.8	128.4	127.7	11.4
Coal	473.5	491.8	526.0	538.9	548.2	567.3	597.6	630.4	637.7	635.4	56.8
Nuclear	36.3	29.4	29.3	32.1	36.4	40.4	43.0	49.0	56.0	57.1	5.1
Hydro	98.8	112.7	120.4	132.9	137.3	145.0	148.2	154.0	161.4	167.2	15.0
Biomass	8.6	9.2	10.5	11.6	12.6	16.5	18.3	21.0	21.5	23.8	2.1
Wind	9.5	12.3	16.6	18.5	21.1	26.9	32.7	40.1	44.2	49.8	4.5
Solar	1.0	1.7	3.4	5.8	8.9	13.6	20.4	26.6	34.0	41.2	3.7
Other renewables	4.3	4.3	4.4	4.6	4.7	4.7	4.8	4.9	4.9	5.3	0.5
Total final consumption, by sector	3,583.4	3,687.4	3,784.4	3,850.1	3,910.0	3,959.8	4,043.2	4,114.6	4,221.1	4,182.6	100.0
Industry	1,640.2	1,670.3	1,697.2	1,717.1	1,723.9	1,709.9	1,723.4	1,736.2	1,780.6	1,782.4	42.6
Transport	561.9	598.8	631.3	645.9	678.2	702.4	732.2	758.5	782.5	727.9	17.4
Residential/Commercial	944.1	956.7	973.1	982.3	993.4	1,022.8	1,053.4	1,065.3	1,091.0	1,099.9	26.3
Oil final consumption, by sector	1,063.0	1,111.6	1,151.3	1,176.1	1,229.6	1,260.1	1,308.9	1,338.3	1,374.0	1,331.1	100.0
Industry	119.3	124.1	120.3	114.9	125.2	128.2	127.8	120.8	123.2	127.5	9.6
Transport	529.7	564.2	593.3	604.2	634.3	654.4	681.5	701.0	721.1	666.3	50.1
Residential/Commercial	117.4	118.4	121.7	124.8	131.3	136.0	142.7	143.2	148.1	149.3	11.2
Natural gas final consumption, by sector	231.0	246.8	262.4	268.6	268.2	282.2	306.6	335.0	346.9	355.4	100.0
Industry	93.2	98.9	106.3	108.7	104.8	111.4	127.4	141.4	146.6	149.8	42.1
Transport	18.2	19.0	20.8	23.3	25.0	25.9	27.4	30.9	32.3	33.9	9.5
Residential/Commercial	77.8	81.7	84.4	86.6	89.5	94.1	100.7	108.8	112.7	117.4	33.0
Refined products consumption	1,059.9	1,107.2	1,148.2	1,170.7	1,224.2	1,255.0	1,305.5	1,335.2	1,370.9	1,327.9	100.0
Gasoline	223.1	234.3	255.6	258.3	282.5	293.7	305.4	312.8	325.4	303.8	22.9
Diesel	380.8	410.4	415.3	418.2	426.0	423.7	438.8	448.2	456.5	425.9	32.1
Heating Oil	42.7	37.8	34.2	33.2	32.4	32.8	32.3	31.6	29.6	28.3	2.1
Aviation Jet	24.8	26.4	29.7	32.4	35.9	39.5	43.0	44.5	45.6	35.3	2.7
LPG	92.8	93.5	100.0	106.6	112.0	123.8	131.3	134.6	140.6	142.1	10.7
Imports	1,568.7	1,636.5	1,678.0	1,707.9	1,779.5	1,886.7	1,988.7	2,067.5	2,088.5	2,036.0	100.0
Oil	1,346.7	1,399.3	1,424.4	1,448.7	1,522.2	1,611.7	1,687.7	1,736.9	1,750.7	1,691.9	83.1
Gas	222.1	237.2	253.6	259.2	257.3	275.0	301.0	330.5	337.8	344.0	16.9
Gasoline	47.8	53.3	57.8	57.3	60.3	62.0	62.2	66.3	69.4	63.5	3.1
Diesel	70.7	68.2	67.3	74.9	74.2	83.9	91.6	94.4	95.5	80.2	3.9
Heating Oil	121.7	119.5	124.0	115.7	116.2	114.0	117.6	111.1	93.4	94.0	4.6
Aviation Jet	20.8	20.1	22.0	20.5	21.9	26.0	28.1	26.9	24.4	20.0	1.0
LPG	41.5	43.2	45.0	50.3	56.3	66.4	70.0	72.5	79.0	76.8	3.8
Exports	478.3	472.0	483.6	485.1	513.2	550.8	577.0	568.7	581.3	565.2	100.0
Oil	372.7	372.3	378.7	376.8	398.1	422.7	429.2	414.9	404.8	377.7	66.8
Gas	105.6	99.7	104.9	108.3	115.1	128.1	147.9	153.7	176.5	187.6	33.2
Gasoline	56.0	61.1	59.9	64.8	68.8	71.0	71.1	71.1	74.0	67.7	12.0
Diesel	96.8	99.5	103.8	104.3	108.5	120.5	125.0	128.2	133.7	123.9	21.9
Heating Oil	64.5	58.1	61.4	56.2	56.6	57.4	61.4	57.9	47.4	53.1	9.4
Aviation Jet	34.3	35.7	39.1	40.1	44.3	48.2	50.5	50.0	50.3	38.7	6.8
LPG	4.7	4.2	4.2	4.4	4.1	4.2	4.6	5.4	6.1	6.7	1.2
CO₂ Emissions (Million tons CO₂)	14,119.7	14,616.6	15,082.9	15,197.9	15,254.7	15,316.5	15,673.6	16,024.7	16,288.9	16,097.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	406.6	411.5	403.2	393.7	376.1	358.0	340.7	330.0	320.2	311.5	-
Final energy intensity (toe/million \$15ppp)	105.9	104.4	101.7	98.8	95.3	91.8	88.1	85.1	82.2	80.7	-
Total energy intensity (toe/million \$15ppp)	153.1	150.5	146.5	142.0	137.6	131.6	125.7	122.2	120.0	117.4	-

*Heat is included

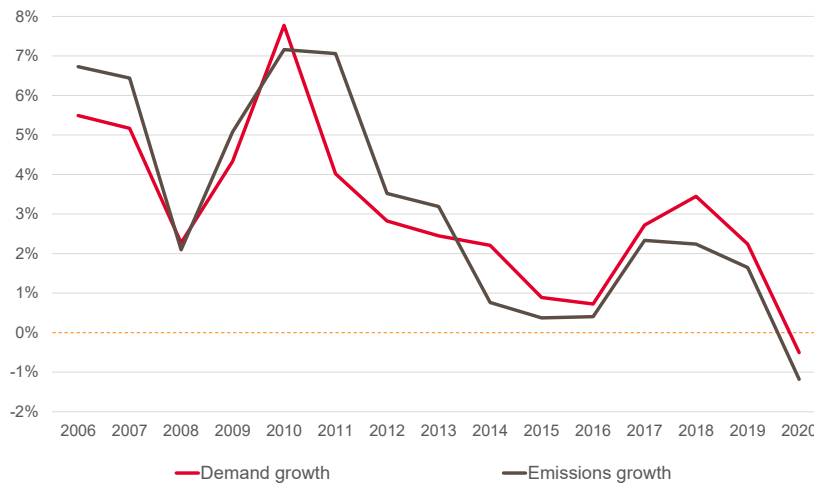
Primary energy demand mix



Electricity generation by source



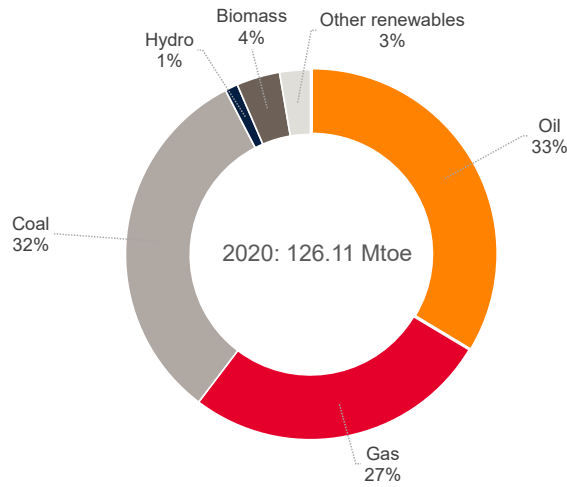
Primary energy demand and CO₂ emissions growth



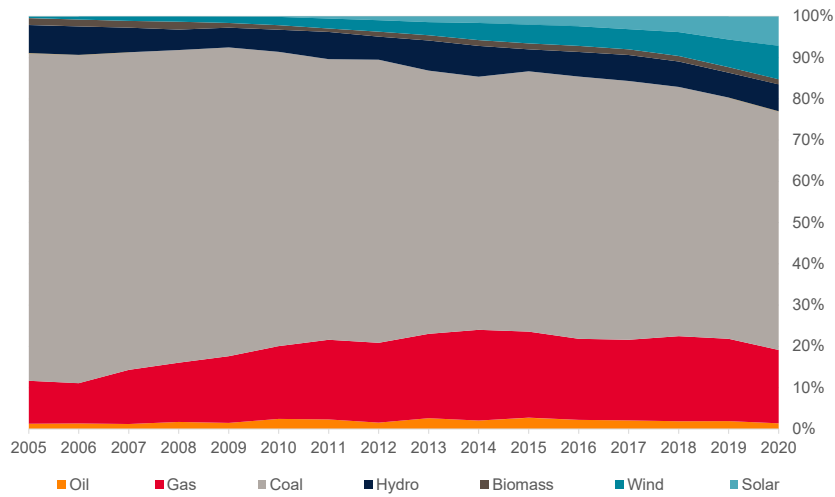
Australia (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	127.0	125.6	127.5	126.9	126.7	126.5	127.6	128.0	128.7	126.1	100.0
Oil	43.2	44.1	45.1	44.5	42.5	43.0	42.9	43.4	43.9	42.2	33.5
Gas	28.7	27.5	30.9	32.9	33.1	30.6	31.3	32.6	33.3	33.6	26.6
Coal	48.1	47.0	43.7	41.5	42.9	44.5	44.5	42.9	41.9	40.3	32.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.4	1.2	1.6	1.6	1.1	1.3	1.4	1.4	1.3	1.4	1.1
Biomass	4.7	4.7	4.9	4.9	5.2	5.1	5.5	5.2	5.0	4.8	3.8
Other renewables	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.2	2.8	3.4	2.7
Electricity balance of trade*	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total final consumption, by source	79.3	80.0	81.7	81.7	81.3	82.0	82.5	83.7	84.7	82.3	100.0
Oil	41.2	42.6	43.0	43.1	42.5	43.1	43.7	44.6	45.2	43.3	52.7
Gas	11.7	11.7	12.9	13.2	13.0	12.7	12.5	12.5	13.0	13.2	16.0
Coal	3.7	3.2	3.1	3.1	3.0	3.4	3.6	3.8	3.7	3.5	4.3
Electricity	18.2	18.0	18.0	17.9	18.2	18.2	18.2	18.3	18.6	18.1	22.0
Heat	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Biomass	4.1	4.1	4.4	4.2	4.3	4.2	4.3	4.1	3.9	3.7	4.5
Electricity generation, by source	21.8	21.6	21.4	21.3	21.6	22.1	22.2	22.4	22.7	22.1	100.0
Oil	0.5	0.3	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.3	1.3
Gas	4.2	4.2	4.4	4.7	4.5	4.3	4.3	4.6	4.5	3.9	17.8
Coal	14.8	14.8	13.7	13.1	13.6	14.0	13.9	13.6	13.3	12.8	57.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.4	1.2	1.6	1.6	1.2	1.3	1.4	1.4	1.4	1.4	6.5
Biomass	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.2
Wind	0.5	0.6	0.7	0.9	1.0	1.0	1.1	1.3	1.5	1.8	8.1
Solar	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.6	7.1
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	79.3	80.0	81.7	81.7	81.3	82.0	82.5	83.7	84.7	82.3	100.0
Industry	24.1	24.0	24.4	24.1	23.0	22.9	22.8	23.1	23.6	23.0	28.0
Transport	30.6	30.8	31.3	31.4	32.2	32.5	33.1	33.7	33.8	32.0	38.8
Residential/Commercial	17.4	17.5	17.8	17.8	18.3	18.5	18.6	18.8	18.9	19.0	23.1
Oil final consumption, by sector	41.2	42.6	43.0	43.1	42.5	43.1	43.7	44.6	45.2	43.3	100.0
Industry	3.9	4.5	4.6	4.5	3.9	3.6	3.6	3.9	3.9	4.0	9.2
Transport	29.9	30.1	30.6	30.6	31.3	31.7	32.4	33.0	33.1	31.2	72.1
Residential/Commercial	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	2.8
Natural gas final consumption, by sector	11.7	11.7	12.9	13.2	13.0	12.7	12.5	12.5	13.0	13.2	100.0
Industry	6.9	6.9	7.1	7.0	6.7	6.4	6.2	6.2	6.7	6.8	51.8
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	4.1	4.1	4.4	4.6	4.7	4.8	4.9	4.9	4.9	5.1	38.3
Refined products consumption	41.2	42.6	43.0	43.1	42.5	43.0	43.6	44.6	45.2	43.3	100.0
Gasoline	15.1	14.8	14.8	14.3	14.4	14.3	14.8	14.6	14.6	13.4	30.8
Diesel	15.4	16.3	17.3	17.8	18.4	18.9	19.6	20.7	21.1	21.3	49.1
Heating Oil	0.9	0.9	0.8	0.6	0.3	0.2	0.1	0.2	0.2	0.1	0.3
Aviation Jet	2.6	2.7	2.9	3.0	3.0	3.1	3.0	3.1	3.2	2.5	5.7
LPG	2.2	2.2	2.2	2.2	2.1	2.0	1.7	1.6	1.5	1.4	3.2
Imports	45.2	46.2	49.0	48.6	47.6	48.6	49.7	52.9	52.6	48.9	100.0
Oil	40.8	42.3	44.6	43.9	43.3	43.7	45.3	48.9	48.3	45.0	92.1
Gas	4.4	3.9	4.4	4.7	4.3	4.9	4.4	4.0	4.3	3.9	7.9
Gasoline	2.1	2.9	2.9	2.8	4.3	5.2	5.4	5.0	4.7	4.6	9.4
Diesel	7.5	9.6	10.6	11.4	12.7	15.2	15.7	17.3	17.7	18.9	38.6
Heating Oil	1.5	1.6	1.6	1.3	0.2	0.3	0.2	0.7	0.7	0.6	1.3
Aviation Jet	1.8	1.9	2.7	2.9	3.6	4.7	4.9	5.2	4.9	4.1	8.3
LPG	0.5	0.6	0.5	0.4	0.6	0.5	0.6	0.5	0.5	0.4	0.9
Exports	42.1	39.1	43.0	41.8	44.0	56.8	74.5	85.9	108.8	121.2	100.0
Oil	18.7	17.0	15.5	14.5	14.6	13.4	13.0	13.2	15.1	18.4	15.2
Gas	23.4	22.1	27.5	27.2	29.4	43.4	61.4	72.7	93.7	102.8	84.8
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1
Diesel	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
Heating Oil	0.2	0.5	0.2	0.0	0.1	0.2	0.3	0.2	0.2	0.3	0.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1
LPG	1.5	1.3	1.5	1.5	1.3	1.2	1.4	1.4	1.8	3.2	2.7
CO₂ Emissions (Million tons CO₂)	389.4	388.0	385.0	375.3	380.8	390.7	393.5	392.1	387.3	371.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	394.7	378.4	366.1	348.0	345.5	345.0	339.4	328.5	318.6	313.7	-
Final energy intensity (toe/million \$15ppp)	75.2	72.6	72.1	70.0	68.8	67.4	66.5	65.5	65.0	64.7	-
Total energy intensity (toe/million \$15ppp)	128.7	122.5	121.2	117.6	114.9	111.7	110.1	107.3	105.9	106.4	-

*Heat is included

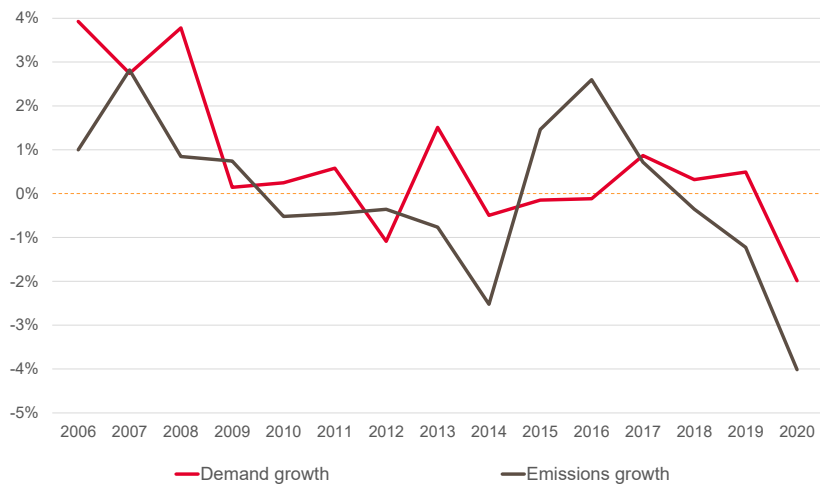
Primary energy demand mix



Electricity generation by source



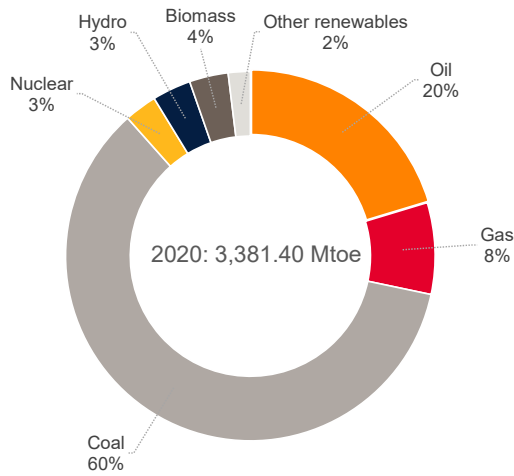
Primary energy demand and CO₂ emissions growth



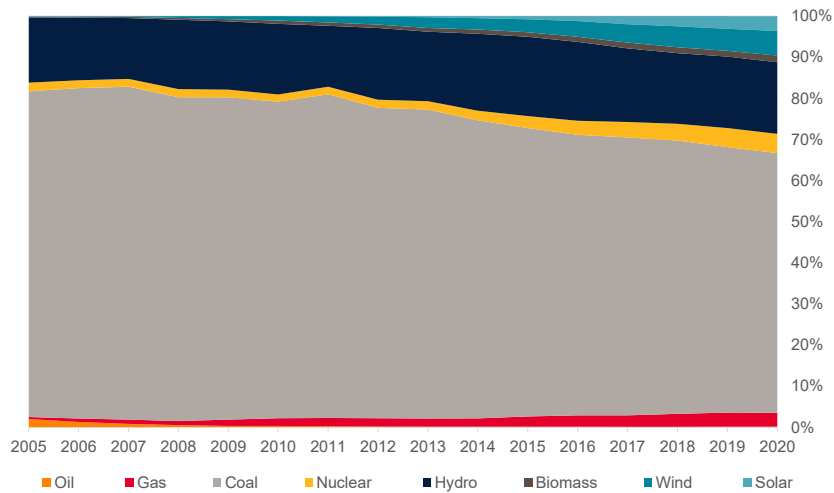
China (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	2,722.6	2,820.7	2,911.6	2,966.0	2,993.7	2,977.2	3,070.1	3,201.2	3,309.3	3,381.4	100.0
Oil	443.3	465.3	486.8	506.3	535.7	548.1	572.5	615.8	656.7	680.2	20.1
Gas	110.0	123.4	140.5	153.6	158.5	170.7	195.1	230.3	250.1	268.1	7.9
Coal	1,940.5	1,985.9	2,025.1	2,023.9	1,996.9	1,932.5	1,954.2	1,978.6	1,998.4	2,010.7	59.5
Nuclear	22.5	25.4	29.1	34.5	44.5	55.6	64.6	76.9	90.9	95.6	2.8
Hydro	59.2	74.2	78.2	90.4	95.8	100.0	99.5	103.1	109.2	113.5	3.4
Biomass	126.7	120.2	114.2	114.8	113.7	112.7	115.2	116.7	115.2	113.7	3.4
Other renewables	6.3	8.8	13.5	15.9	19.8	26.9	36.7	46.7	54.6	64.4	1.9
Electricity balance of trade*	14.3	17.5	24.3	26.4	28.7	30.7	32.3	33.2	34.1	35.2	1.0
Total final consumption, by source	1,859.1	1,931.5	2,004.0	2,046.1	2,079.9	2,093.1	2,117.6	2,166.4	2,237.6	2,283.7	100.0
Oil	385.5	408.2	432.7	451.3	480.4	494.7	514.3	535.4	564.6	581.5	25.5
Gas	78.8	88.1	98.8	108.0	108.1	117.0	134.2	155.6	166.2	180.7	7.9
Coal	868.7	885.3	889.1	882.3	868.8	829.7	781.8	741.3	740.6	735.1	32.2
Electricity	332.2	355.0	387.0	405.6	419.4	445.2	476.3	516.9	542.3	561.4	24.6
Heat	81.6	90.2	100.7	105.5	112.9	121.7	129.0	137.6	146.6	156.2	6.8
Biomass	112.2	104.6	95.8	93.5	90.3	84.9	82.0	79.6	77.3	68.7	3.0
Electricity generation, by source	405.6	429.5	468.5	488.4	503.9	534.7	570.7	617.6	646.7	670.6	100.0
Oil	1.0	0.9	0.9	0.8	0.8	0.9	0.8	0.9	1.0	1.1	0.2
Gas	8.3	8.5	9.2	9.8	12.5	14.7	15.7	19.3	22.2	22.6	3.4
Coal	319.2	324.3	352.0	353.9	353.4	364.8	385.7	410.5	417.4	423.5	63.2
Nuclear	7.4	8.4	9.6	11.4	14.7	18.3	21.3	25.4	30.0	31.5	4.7
Hydro	60.1	75.0	79.1	91.5	97.2	102.6	102.3	106.0	112.2	116.6	17.4
Biomass	3.3	3.5	4.2	4.9	5.5	6.5	8.0	8.9	9.2	10.9	1.6
Wind	6.0	8.3	12.1	13.4	16.0	20.4	25.4	31.5	34.6	40.1	6.0
Solar	0.2	0.5	1.3	2.5	3.9	6.5	11.3	15.2	20.0	24.2	3.6
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	1,859.1	1,931.5	2,004.0	2,046.1	2,079.9	2,093.1	2,117.6	2,166.4	2,237.6	2,283.7	100.0
Industry	1,089.5	1,119.7	1,141.5	1,140.0	1,133.4	1,113.9	1,102.5	1,104.0	1,127.1	1,155.4	50.6
Transport	216.1	238.2	257.9	268.6	289.1	296.3	310.3	324.2	338.8	320.7	14.0
Residential/Commercial	368.0	380.9	398.2	410.3	428.1	447.3	469.8	491.0	511.5	520.9	22.8
Oil final consumption, by sector	385.5	408.2	432.7	451.3	480.4	494.7	514.3	535.4	564.6	581.5	100.0
Industry	48.4	51.1	49.6	41.2	46.4	49.6	47.2	45.5	49.1	58.3	10.0
Transport	198.7	219.1	236.3	244.0	262.2	267.2	278.4	288.0	299.8	280.6	48.3
Residential/Commercial	38.4	40.1	42.7	45.9	51.7	54.8	58.2	60.2	62.9	64.6	11.1
Natural gas final consumption, by sector	78.8	88.1	98.8	108.0	108.1	117.0	134.2	155.6	166.2	180.7	100.0
Industry	29.7	32.8	39.2	42.1	40.2	45.7	58.3	67.4	72.0	78.3	43.3
Transport	9.2	10.2	11.9	14.6	16.3	17.1	18.7	21.8	23.3	25.3	14.0
Residential/Commercial	30.7	33.7	36.4	39.2	41.6	43.8	48.4	56.2	60.0	65.2	36.1
Refined products consumption	384.0	407.3	431.2	447.4	477.0	491.6	513.6	534.9	564.0	580.9	100.0
Gasoline	78.2	84.1	96.5	100.7	117.1	122.2	127.9	132.3	139.2	129.6	22.3
Diesel	153.8	168.7	170.8	171.4	173.1	167.6	168.3	172.3	177.1	168.7	29.0
Heating Oil	11.9	10.7	12.2	12.6	11.1	10.3	11.6	11.9	11.9	12.0	2.1
Aviation Jet	11.1	12.3	14.0	15.7	18.0	20.4	23.1	23.9	25.4	21.6	3.7
LPG	27.3	27.4	30.6	35.4	40.5	47.6	53.4	55.2	58.1	61.1	10.5
Imports	332.3	356.3	376.1	401.9	437.7	495.9	556.7	628.7	680.0	716.4	100.0
Oil	307.8	323.0	334.5	354.9	389.1	436.8	482.4	530.8	575.4	606.2	84.6
Gas	24.5	33.3	41.7	46.9	48.6	59.0	74.2	97.9	104.6	110.1	15.4
Gasoline	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.3	0.5	0.1
Diesel	2.4	0.9	0.3	0.5	0.4	0.9	0.8	0.7	1.2	1.3	0.2
Heating Oil	26.8	26.8	23.5	17.8	15.4	11.7	13.6	16.7	14.8	12.7	1.8
Aviation Jet	5.5	5.4	5.5	4.0	3.6	3.6	3.8	4.2	2.9	2.1	0.3
LPG	4.2	4.3	5.4	8.9	14.9	20.1	23.1	22.6	24.6	23.3	3.3
Exports	35.7	33.3	36.8	37.2	46.8	59.4	65.2	69.8	77.3	74.4	100.0
Oil	33.0	30.9	34.5	35.0	44.1	56.6	62.2	66.9	74.2	69.3	93.1
Gas	2.7	2.4	2.3	2.2	2.7	2.8	3.0	2.8	3.0	5.1	6.9
Gasoline	4.2	3.0	4.8	5.2	6.1	10.0	10.8	13.3	16.9	16.6	22.3
Diesel	2.1	1.9	2.8	4.2	7.3	15.7	17.5	18.9	21.8	20.2	27.1
Heating Oil	12.3	11.6	11.3	9.5	10.5	9.9	11.1	12.3	11.1	15.8	21.2
Aviation Jet	6.7	7.7	9.5	11.0	12.7	13.5	13.5	15.1	18.1	10.3	13.8
LPG	1.4	1.5	1.5	1.7	1.7	1.6	1.6	1.4	1.7	1.2	1.6
CO₂ Emissions (Million tons CO₂)	8,488.0	8,749.0	9,161.2	9,082.9	9,076.7	9,032.8	9,185.7	9,345.8	9,561.9	9,716.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	638.6	610.3	593.0	547.9	512.2	477.5	454.9	434.3	418.7	418.0	-
Final energy intensity (toe/million \$15ppp)	130.4	125.6	120.6	113.7	108.3	101.9	96.6	92.4	89.7	88.9	-
Total energy intensity (toe/million \$15ppp)	204.8	196.8	188.5	178.9	168.9	157.4	152.0	148.8	144.9	145.5	-

*Heat is included

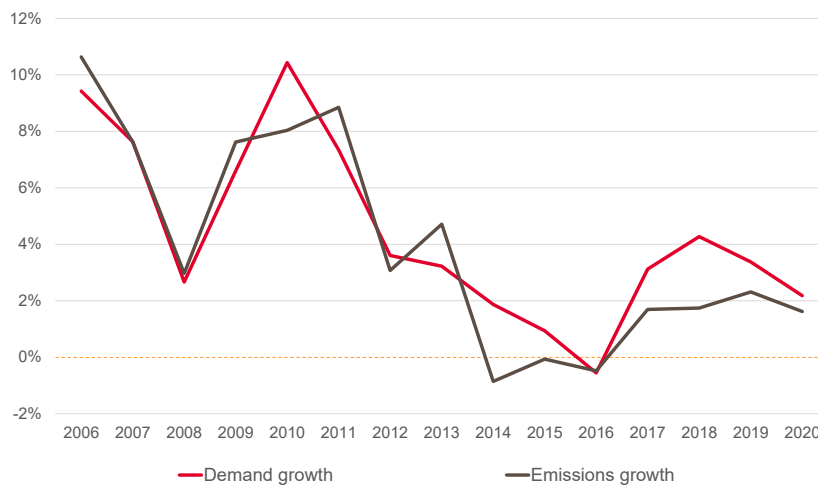
Primary energy demand mix



Electricity generation by source



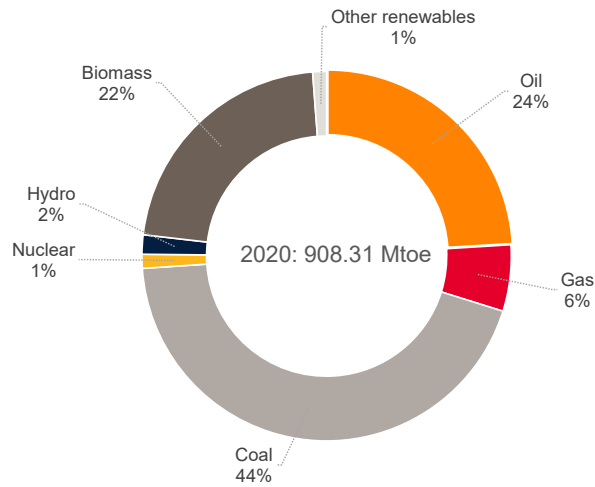
Primary energy demand and CO₂ emissions growth



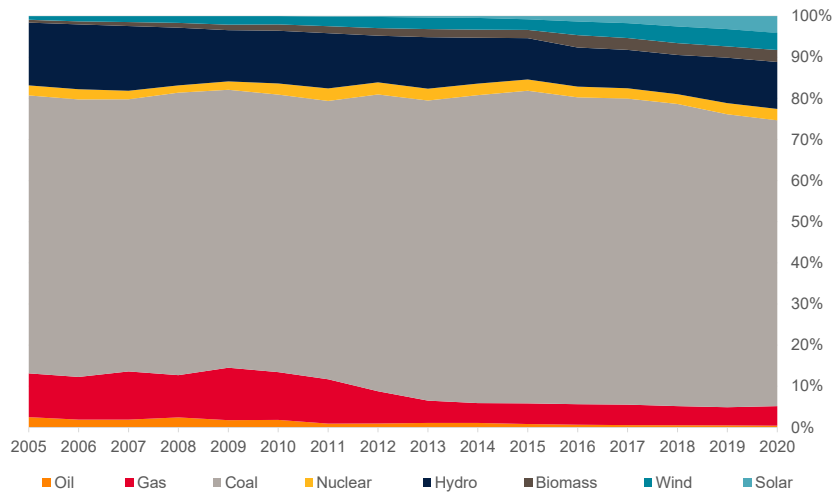
India (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	733.6	766.3	778.8	822.0	834.5	852.2	882.9	919.4	940.4	908.3	100.0
Oil	166.2	177.2	176.4	184.3	206.4	216.7	223.0	235.3	242.0	217.9	24.0
Gas	55.0	48.9	44.4	44.0	45.1	48.0	51.0	52.4	53.3	52.6	5.8
Coal	295.1	326.3	344.9	384.1	377.2	371.9	393.4	414.2	415.6	400.2	44.1
Nuclear	8.4	8.6	8.9	9.4	9.8	9.9	10.0	9.9	11.4	11.2	1.2
Hydro	12.2	10.9	12.8	12.3	11.7	11.8	12.2	13.0	15.2	15.3	1.7
Biomass	193.6	190.8	187.4	183.7	179.7	187.5	185.6	185.1	191.9	198.9	21.9
Other renewables	2.2	2.8	3.2	3.6	3.9	5.8	7.0	8.9	10.1	11.0	1.2
Electricity balance of trade*	0.8	0.9	0.8	0.6	0.7	0.6	0.7	0.7	0.9	1.2	0.1
Total final consumption, by source	515.1	523.0	532.5	549.8	564.9	582.4	603.5	620.4	643.7	624.8	100.0
Oil	145.5	153.5	154.6	161.6	179.6	189.1	199.9	207.7	214.2	193.5	31.0
Gas	22.6	25.0	26.1	25.9	27.7	29.6	30.4	31.0	31.6	31.0	5.0
Coal	101.1	98.7	107.2	113.7	109.0	109.4	116.2	121.8	131.2	130.0	20.8
Electricity	66.6	70.8	74.2	82.8	87.6	94.5	99.2	103.3	104.3	101.9	16.3
Heat	0.4	0.5	0.4	0.6	0.7	0.7	0.8	1.0	1.1	1.2	0.2
Biomass	178.9	174.5	170.0	165.2	160.4	158.9	157.0	155.6	161.3	167.2	26.8
Electricity generation, by source	91.1	95.9	101.8	110.7	116.8	124.6	130.6	136.2	137.3	133.9	100.0
Oil	0.8	0.9	1.1	1.2	0.9	0.8	0.7	0.7	0.7	0.6	0.4
Gas	9.8	7.5	5.5	5.4	5.9	6.2	6.5	6.3	6.1	6.3	4.7
Coal	61.7	69.2	74.3	82.9	88.8	93.0	97.2	100.1	97.8	93.1	69.5
Nuclear	2.8	2.8	2.9	3.1	3.2	3.3	3.3	3.3	3.8	3.7	2.7
Hydro	12.2	10.9	12.8	12.3	11.7	11.8	12.2	13.0	15.2	15.3	11.4
Biomass	1.5	1.8	2.0	2.2	2.3	3.7	3.8	3.9	3.8	3.9	2.9
Wind	2.1	2.6	2.9	3.1	3.0	4.2	4.7	5.5	5.8	5.5	4.1
Solar	0.1	0.2	0.4	0.5	0.9	1.6	2.2	3.4	4.3	5.5	4.1
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	515.1	523.0	532.5	549.8	564.9	582.4	603.5	620.4	643.7	624.8	100.0
Industry	169.6	168.2	178.5	190.9	192.1	199.6	210.5	215.2	225.2	221.0	35.4
Transport	70.2	74.2	76.0	79.2	86.7	90.8	98.0	103.3	107.1	92.6	14.8
Residential/Commercial	206.0	203.6	201.7	201.2	201.4	205.1	205.6	206.4	214.5	220.2	35.2
Oil final consumption, by sector	145.5	153.5	154.6	161.6	179.6	189.1	199.9	207.7	214.2	193.5	100.0
Industry	14.5	16.5	16.5	18.9	23.7	28.2	29.1	25.9	26.0	23.6	12.2
Transport	67.0	71.1	72.7	75.8	83.0	86.7	93.7	98.1	101.8	87.5	45.2
Residential/Commercial	24.8	24.5	25.0	26.7	28.2	29.0	29.4	30.8	33.2	34.4	17.8
Natural gas final consumption, by sector	22.6	25.0	26.1	25.9	27.7	29.6	30.4	31.0	31.6	31.0	100.0
Industry	3.1	3.2	3.2	3.3	3.3	4.5	5.4	5.7	5.8	5.7	18.5
Transport	1.8	1.6	1.7	1.8	2.0	2.2	2.4	2.8	2.8	2.7	8.9
Residential/Commercial	1.7	2.0	2.0	1.8	1.8	2.5	2.9	3.1	3.2	3.1	10.1
Refined products consumption	145.5	153.5	154.6	161.6	179.6	189.1	199.9	207.7	214.2	193.5	100.0
Gasoline	16.0	16.8	18.3	20.4	23.4	25.4	28.0	30.3	32.9	29.8	15.4
Diesel	64.6	68.8	67.9	69.0	73.6	75.0	80.1	82.5	84.0	72.0	37.2
Heating Oil	7.9	6.3	5.1	5.0	5.9	7.0	6.1	5.9	5.6	5.4	2.8
Aviation Jet	2.5	2.4	2.6	2.8	3.1	3.6	4.1	4.4	4.4	2.3	1.2
LPG	17.3	17.6	18.4	20.3	22.2	24.4	26.4	28.1	30.5	31.9	16.5
Imports	207.9	220.9	225.5	231.1	254.7	275.2	283.6	290.2	300.5	280.9	100.0
Oil	191.8	205.3	210.1	214.5	235.7	253.1	259.2	264.6	272.9	250.9	89.3
Gas	16.0	15.6	15.4	16.6	19.0	22.1	24.4	25.5	27.6	30.0	10.7
Gasoline	0.7	0.2	0.3	0.4	1.1	0.5	0.2	0.7	2.3	1.5	0.5
Diesel	1.1	0.5	0.1	0.1	0.2	1.0	1.4	0.6	2.9	2.4	0.9
Heating Oil	1.2	1.0	1.3	0.9	1.1	0.9	1.2	1.4	2.2	5.5	2.0
Aviation Jet	0.0	0.0	0.0	0.1	0.3	0.4	0.3	0.3	0.1	0.0	0.0
LPG	6.5	7.1	7.4	9.4	10.1	12.5	12.9	15.0	17.8	19.9	7.1
Exports	65.2	67.3	71.7	68.6	65.2	70.6	71.9	65.2	66.0	59.2	100.0
Oil	65.2	67.3	71.7	68.6	65.2	70.6	71.9	65.2	66.0	59.2	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	15.5	17.8	16.3	17.2	18.0	16.5	15.0	13.8	13.4	12.0	20.2
Diesel	21.2	23.2	27.4	26.4	24.9	28.4	30.8	28.9	30.9	31.0	52.3
Heating Oil	7.6	5.7	5.9	4.6	2.7	2.2	2.4	2.1	1.6	0.9	1.6
Aviation Jet	4.9	5.0	6.1	5.9	6.1	7.7	7.7	7.9	7.4	4.0	6.7
LPG	0.2	0.2	0.3	0.3	0.2	0.4	0.4	0.5	0.5	0.5	0.9
CO₂ Emissions (Million tons CO₂)	1,662.1	1,809.7	1,859.1	2,024.1	2,035.4	2,061.7	2,181.8	2,290.4	2,319.1	2,191.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	302.1	311.9	301.2	305.3	284.3	266.2	262.9	258.4	251.1	256.2	-
Final energy intensity (toe/million \$15ppp)	86.2	82.4	79.0	76.2	71.9	68.7	66.5	63.7	63.6	66.9	-
Total energy intensity (toe/million \$15ppp)	133.4	132.1	126.2	124.0	116.6	110.0	106.4	103.7	101.8	106.2	-

*Heat is included

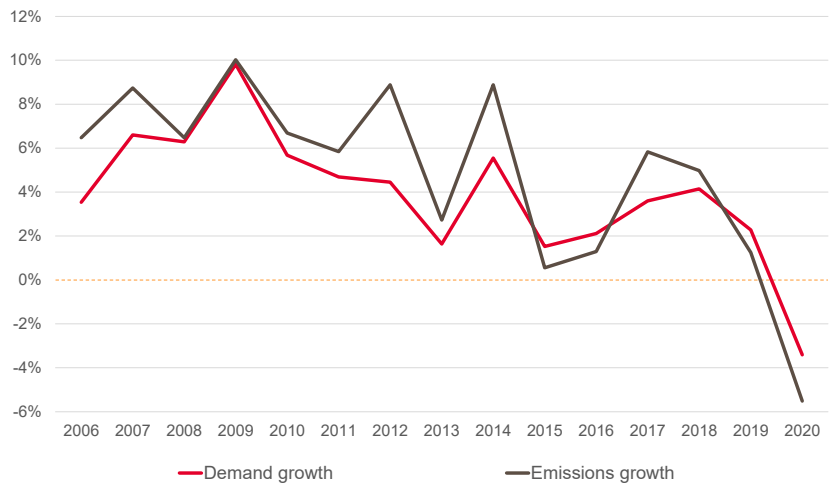
Primary energy mix



Electricity generation by source



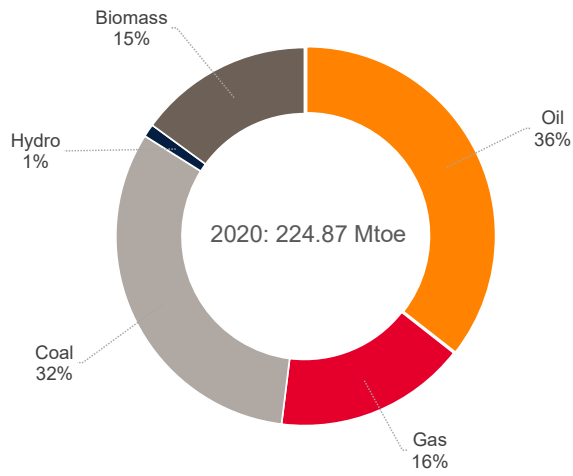
Primary energy demand and CO₂ emissions growth



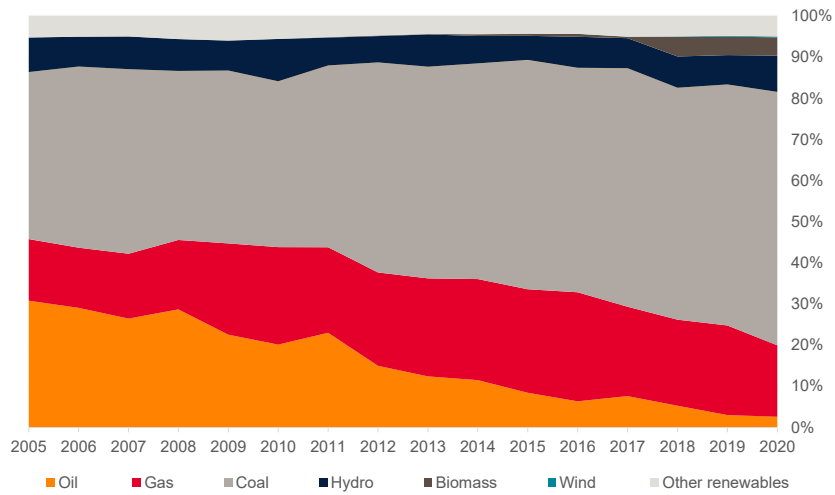
Indonesia (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	205.1	204.1	197.2	205.5	204.1	209.2	221.9	231.1	237.2	224.9	100.0
Oil	66.5	72.4	74.0	74.7	70.9	69.7	75.3	77.3	74.5	71.2	31.6
Gas	35.7	35.0	36.5	36.6	37.9	39.1	38.7	38.9	39.0	32.8	14.6
Coal	41.8	37.5	28.5	36.1	39.7	43.3	48.4	55.2	66.4	63.9	28.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.5	1.3	1.2	1.6	1.6	1.9	1.8	2.2	1.0
Biomass	44.0	42.0	40.5	39.6	37.2	37.1	35.8	33.5	31.1	29.9	13.3
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*	16.1	16.2	16.2	17.3	17.3	18.4	22.0	24.2	24.4	24.8	11.0
Total final consumption, by source	153.4	158.9	148.9	150.7	147.3	144.5	152.2	156.1	162.1	154.4	100.0
Oil	61.9	72.1	71.1	71.4	68.7	66.8	72.8	75.7	75.9	73.0	47.3
Gas	16.7	17.3	17.3	17.1	17.0	14.0	14.7	16.7	16.5	15.4	10.0
Coal	18.1	13.4	4.6	6.5	8.3	9.5	11.1	14.7	23.2	20.8	13.4
Electricity	13.6	15.0	16.1	17.1	17.4	18.6	19.2	22.0	23.0	22.9	14.8
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	43.1	41.1	39.7	38.5	35.9	35.7	34.3	27.0	23.4	22.4	14.5
Electricity generation, by source	15.8	17.2	18.6	19.6	20.1	21.3	21.9	24.4	25.4	25.0	100.0
Oil	3.6	2.6	2.3	2.2	1.7	1.4	1.7	1.3	0.8	0.7	2.6
Gas	3.3	3.9	4.4	4.8	5.1	5.7	4.8	5.1	5.5	4.3	17.3
Coal	7.0	8.8	9.6	10.3	11.2	11.6	12.7	13.8	14.9	15.4	61.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.5	1.3	1.2	1.6	1.6	1.9	1.8	2.2	8.8
Biomass	0.0	0.0	0.0	0.1	0.1	0.2	0.1	1.2	1.1	1.1	4.5
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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	0.9	0.9	0.9	1.1	1.2	1.2	1.2	4.9
Total final consumption, by sector	153.4	158.9	148.9	150.7	147.3	144.5	152.2	156.1	162.1	154.4	100.0
Industry	52.4	48.9	39.3	42.1	45.0	39.0	44.3	50.2	57.3	52.2	33.8
Transport	36.6	43.8	46.3	47.0	41.7	46.9	49.2	54.4	57.1	55.6	36.0
Residential/Commercial	52.4	51.8	51.2	50.4	49.5	48.4	48.1	40.9	37.5	36.7	23.8
Oil final consumption, by sector	61.9	72.1	71.1	71.4	68.7	66.8	72.8	75.7	75.9	73.0	100.0
Industry	10.7	11.1	9.5	10.5	12.0	7.4	9.1	8.0	6.6	5.7	7.8
Transport	36.3	43.3	45.5	45.7	41.2	44.8	47.5	51.5	53.4	51.8	71.0
Residential/Commercial	7.1	7.7	8.2	8.4	8.7	8.4	9.1	9.4	9.5	9.1	12.5
Natural gas final consumption, by sector	16.7	17.3	17.3	17.1	17.0	14.0	14.7	16.7	16.5	15.4	100.0
Industry	12.6	13.0	13.1	12.9	12.7	9.8	11.3	13.1	13.0	12.0	77.9
Transport	0.0	0.1	0.0	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	0.0	0.0	0.0	0.2
Refined products consumption	61.3	69.4	70.1	70.4	67.6	65.5	71.0	73.8	74.0	71.0	100.0
Gasoline	20.3	22.4	24.1	24.4	24.9	25.7	26.5	27.2	28.1	28.0	39.4
Diesel	22.5	29.8	29.7	28.5	25.5	22.8	25.3	26.4	26.8	26.2	36.9
Heating Oil	3.4	3.1	1.8	1.7	1.5	1.8	1.9	2.0	1.6	1.5	2.2
Aviation Jet	1.8	2.0	2.2	2.2	2.3	2.6	2.9	3.2	2.8	1.9	2.7
LPG	4.9	5.7	6.3	6.9	7.2	7.5	8.1	8.5	8.8	8.4	11.8
Imports	44.1	48.6	53.1	55.4	51.9	49.3	54.7	51.0	42.6	37.3	100.0
Oil	44.1	48.6	53.1	55.4	51.9	49.3	54.7	51.0	42.6	37.3	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	12.3	14.1	14.7	15.4	14.4	12.4	14.1	14.7	14.9	11.5	30.9
Diesel	8.5	10.9	10.4	10.0	6.4	5.0	6.0	5.7	3.4	2.6	6.9
Heating Oil	0.9	0.4	0.1	0.2	0.1	0.3	0.6	0.8	0.3	0.4	1.1
Aviation Jet	0.7	0.6	0.8	0.8	1.0	0.8	1.6	1.2	0.2	0.0	0.1
LPG	2.3	2.9	3.7	4.1	4.8	5.1	6.2	6.3	6.5	4.2	11.4
Exports	58.0	52.1	50.6	49.1	47.3	46.4	41.7	37.7	24.6	25.5	100.0
Oil	22.5	19.8	20.4	20.0	19.7	20.9	17.9	14.0	3.7	4.3	16.9
Gas	35.4	32.3	30.2	29.1	27.6	25.5	23.8	23.7	20.9	21.2	83.1
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	4.3	3.8	4.2	4.3	3.8	3.9	4.0	3.7	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
LPG	0.1	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)	460.7	467.9	428.4	463.7	465.1	466.2	505.3	556.3	595.5	566.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	214.5	205.5	178.2	183.7	175.7	167.7	173.0	181.1	184.5	179.2	-
Final energy intensity (toe/million \$15ppp)	67.4	65.3	58.4	56.6	52.9	49.2	49.4	48.0	47.6	46.3	-
Total energy intensity (toe/million \$15ppp)	95.5	89.6	82.0	81.4	77.1	75.2	75.9	75.2	73.5	71.2	-

*Heat is included

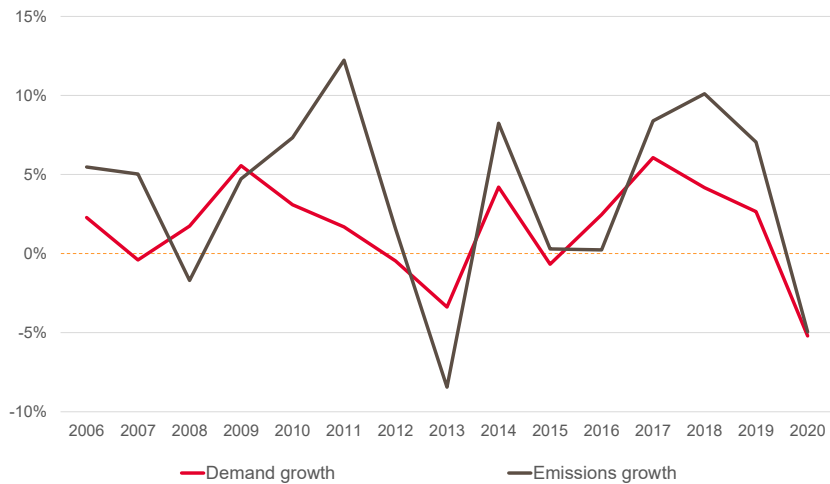
Primary energy demand mix



Electricity generation by source



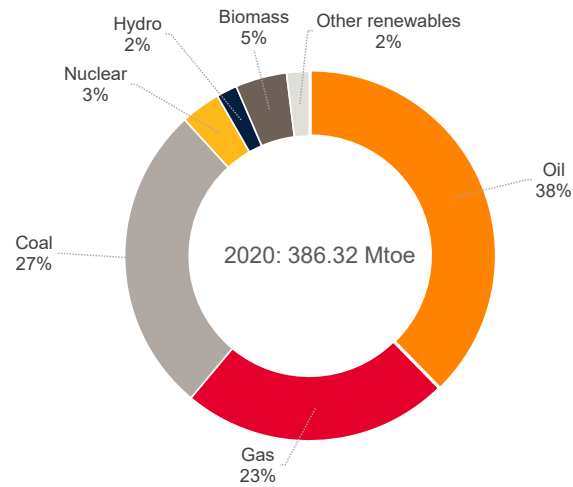
Primary energy demand and CO₂ emissions growth



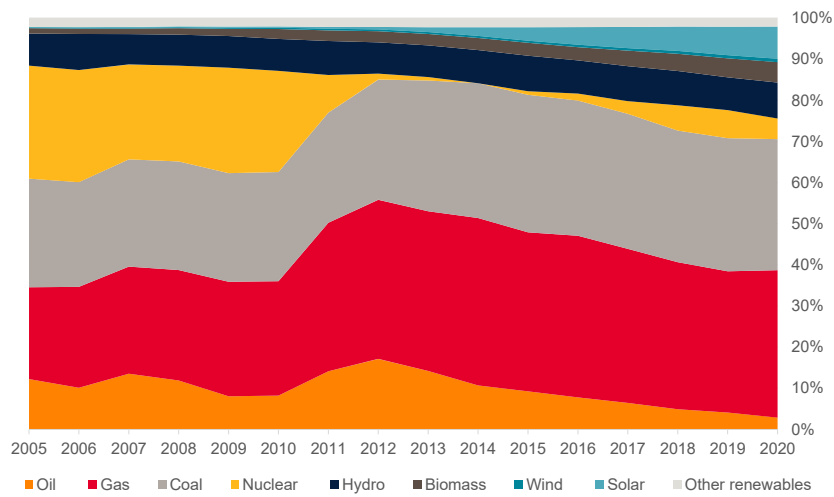
Japan (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	465.7	455.8	456.5	441.6	434.3	429.1	433.7	427.6	416.4	386.3	100.0
Oil	206.8	209.7	200.6	190.3	184.0	176.9	176.0	166.2	159.5	144.1	37.3
Gas	99.8	105.0	105.1	106.6	100.2	101.7	100.9	97.0	92.3	89.5	23.2
Coal	107.9	112.8	122.5	117.8	119.1	116.4	116.4	114.4	112.9	103.8	26.9
Nuclear	26.5	4.2	2.4	0.0	2.5	4.7	8.6	16.9	18.1	13.3	3.4
Hydro	7.3	6.6	6.8	7.2	7.5	6.8	7.2	7.0	6.4	7.0	1.8
Biomass	12.0	12.1	13.0	12.8	13.1	13.8	15.0	15.9	16.5	17.2	4.5
Other renewables	0.8	1.0	1.6	2.4	3.5	4.5	5.3	6.0	6.7	7.5	2.0
Electricity balance of trade*	4.6	4.5	4.6	4.5	4.4	4.3	4.3	4.2	4.0	3.9	1.0
Total final consumption, by source	328.3	325.6	327.3	318.1	313.8	309.5	312.0	302.3	299.0	275.8	100.0
Oil	163.3	161.0	162.1	155.8	154.8	150.9	151.3	144.3	143.5	132.6	48.1
Gas	29.9	29.5	28.8	28.4	28.6	28.6	29.4	29.0	28.3	26.0	9.4
Coal	42.5	43.1	44.1	43.3	41.9	41.3	41.3	40.5	41.0	33.5	12.1
Electricity	85.7	85.3	85.1	83.7	81.7	81.7	83.0	81.3	79.0	76.6	27.8
Heat	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.3
Biomass	5.9	5.8	6.2	5.9	6.0	6.1	6.2	6.2	6.3	6.3	2.3
Electricity generation, by source	95.5	94.5	95.0	92.5	91.1	91.3	92.1	91.0	87.3	87.0	100.0
Oil	13.5	16.2	13.5	9.9	8.4	7.1	5.9	4.5	3.6	2.5	2.9
Gas	34.5	36.6	36.9	37.7	35.2	35.9	34.5	32.5	30.0	31.2	35.8
Coal	25.6	27.6	30.2	30.3	30.4	30.0	30.3	29.1	28.3	27.7	31.8
Nuclear	8.8	1.4	0.8	0.0	0.8	1.6	2.8	5.6	6.0	4.4	5.1
Hydro	7.9	7.2	7.3	7.5	7.8	7.4	7.8	7.6	6.9	7.6	8.7
Biomass	2.5	2.6	2.7	2.7	2.9	2.9	3.5	3.8	4.0	4.3	5.0
Wind	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8
Solar	0.4	0.6	1.1	2.0	3.0	3.9	4.7	5.4	6.0	6.8	7.8
Other renewables	2.0	2.0	2.1	2.0	2.0	2.0	2.0	1.9	1.8	1.8	2.0
Total final consumption, by sector	328.3	325.6	327.3	318.1	313.8	309.5	312.0	302.3	299.0	275.8	100.0
Industry	103.2	102.5	103.0	100.5	96.7	96.2	96.0	94.4	93.7	83.4	30.2
Transport	77.2	76.0	75.8	74.0	74.0	73.0	72.2	71.2	69.6	63.5	23.0
Residential/Commercial	99.9	98.8	98.8	95.8	92.8	92.4	94.9	90.4	88.7	85.1	30.8
Oil final consumption, by sector	163.3	161.0	162.1	155.8	154.8	150.9	151.3	144.3	143.5	132.6	100.0
Industry	15.9	14.9	14.0	13.2	11.7	11.6	10.9	10.2	10.3	9.4	7.1
Transport	75.4	74.2	74.0	72.1	72.1	71.0	70.3	69.2	67.7	61.7	46.5
Residential/Commercial	26.4	25.9	26.7	24.8	22.7	22.3	23.1	20.6	20.4	19.4	14.6
Natural gas final consumption, by sector	29.9	29.5	28.8	28.4	28.6	28.6	29.4	29.0	28.3	26.0	100.0
Industry	11.4	11.4	11.2	11.0	10.9	11.1	11.3	11.4	10.9	9.8	37.7
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Residential/Commercial	18.0	17.6	17.1	17.1	17.4	17.2	17.9	17.3	17.2	15.9	61.4
Refined products consumption	162.9	160.6	161.8	155.6	154.5	150.8	151.0	144.2	143.4	132.5	100.0
Gasoline	44.6	44.0	43.1	41.1	41.1	40.6	39.9	39.0	37.9	35.0	26.4
Diesel	40.0	39.4	40.0	38.7	38.4	38.0	38.1	37.9	37.6	35.4	26.7
Heating Oil	6.6	6.1	5.6	5.2	4.5	4.7	4.7	4.4	4.0	3.4	2.6
Aviation Jet	3.5	3.3	4.2	4.4	4.5	4.4	4.3	4.1	4.2	2.7	2.0
LPG	14.0	14.0	14.5	14.1	12.5	11.8	11.6	10.1	9.3	8.6	6.5
Imports	327.8	335.8	329.5	317.1	309.2	303.5	301.7	289.9	274.6	249.6	100.0
Oil	230.4	234.1	226.7	212.9	211.4	204.3	203.5	195.5	186.6	164.5	65.9
Gas	97.4	101.7	102.7	104.3	97.8	99.2	98.2	94.3	88.0	85.1	34.1
Gasoline	2.3	2.3	1.3	1.2	1.3	0.7	1.0	1.7	1.9	2.5	1.0
Diesel	0.8	0.6	0.3	0.6	0.5	0.4	0.5	0.6	0.7	1.1	0.4
Heating Oil	7.0	8.7	6.4	4.4	3.2	2.3	2.2	1.8	0.5	0.2	0.1
Aviation Jet	1.1	1.3	0.8	0.5	0.7	0.7	1.3	1.3	1.1	0.4	0.2
LPG	14.4	15.1	13.7	13.3	12.4	12.0	12.2	12.1	11.9	10.9	4.4
Exports	13.9	13.0	17.0	15.8	18.5	18.5	17.7	17.7	19.8	12.4	100.0
Oil	13.9	13.0	17.0	15.8	18.5	18.5	17.7	17.7	19.8	12.4	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	1.0	0.9	1.4	2.4	3.1	2.4	3.0	2.6	2.7	1.8	14.9
Diesel	6.8	6.1	9.2	7.8	8.8	8.3	8.7	8.0	10.8	4.9	40.0
Heating Oil	2.6	2.7	1.9	1.7	2.2	3.1	2.5	2.8	2.4	2.7	21.6
Aviation Jet	2.1	2.3	2.9	2.4	2.8	2.9	2.2	2.7	3.0	1.3	10.2
LPG	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3
CO₂ Emissions (Million tons CO₂)	1,170.9	1,211.0	1,214.8	1,173.8	1,138.2	1,128.2	1,110.4	1,066.5	1,044.4	979.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	239.8	244.4	240.3	231.3	221.6	218.3	210.8	200.9	195.4	192.5	-
Final energy intensity (toe/million \$15ppp)	58.5	57.0	55.9	54.2	52.4	51.7	50.9	49.2	48.1	46.5	-
Total energy intensity (toe/million \$15ppp)	95.4	92.0	90.3	87.0	84.6	83.0	82.3	80.6	77.9	75.9	-

*Heat is included

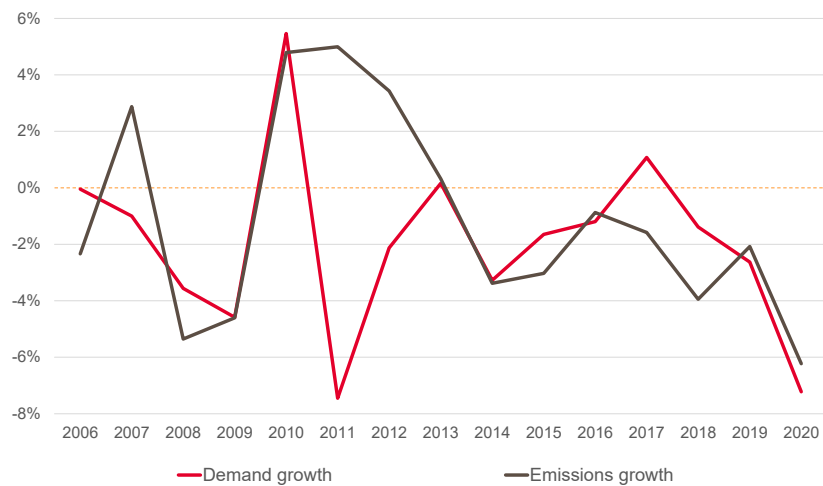
Primary energy demand mix



Electricity generation by source



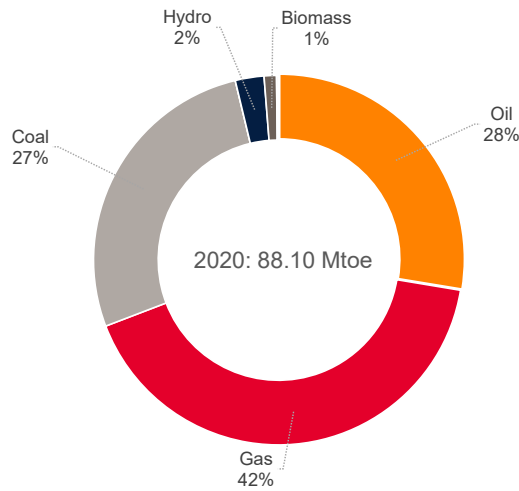
Primary energy demand and CO₂ emissions growth



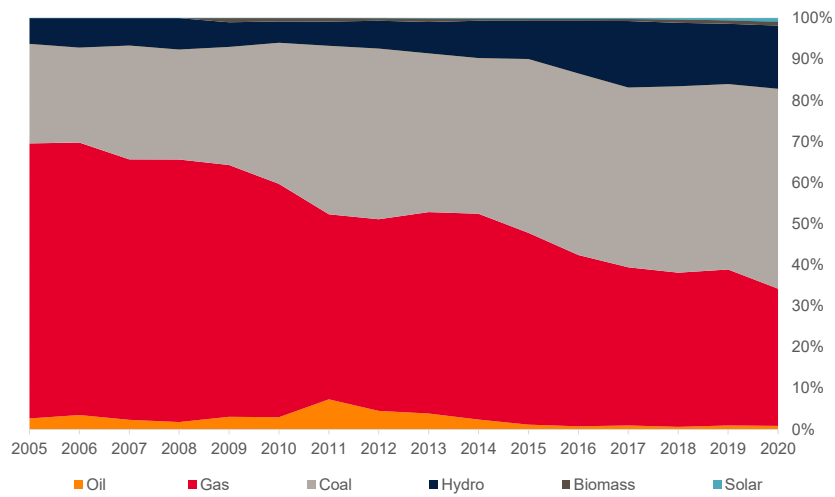
Malaysia (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	76.1	77.5	87.2	88.9	85.0	88.4	85.3	94.0	96.1	88.1	100.0
Oil	27.4	27.8	32.1	33.5	28.1	31.4	29.5	29.5	30.1	24.4	27.7
Gas	31.7	32.4	38.1	38.4	37.5	35.8	32.2	38.8	39.8	36.7	41.6
Coal	15.6	15.8	15.3	15.3	17.5	18.8	20.7	22.6	23.1	23.9	27.1
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	0.8	0.9	1.2	1.2	1.7	2.3	2.3	2.2	2.2	2.5
Biomass	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.9	0.9	1.0	1.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Total final consumption, by source	43.7	46.6	52.8	52.0	50.7	55.2	60.5	62.5	63.8	57.0	100.0
Oil	23.6	24.1	28.1	29.3	27.5	28.3	28.9	28.3	28.6	23.2	40.6
Gas	8.6	10.2	12.0	9.6	9.6	12.3	16.8	18.9	19.4	18.6	32.6
Coal	1.8	1.7	1.5	1.7	1.8	1.8	1.8	1.8	1.8	1.9	3.3
Electricity	9.6	10.4	11.0	11.0	11.4	12.4	12.6	13.2	13.6	12.9	22.7
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	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.8
Electricity generation, by source	11.1	11.6	11.9	12.7	12.9	13.5	14.1	14.7	15.1	14.5	100.0
Oil	0.8	0.5	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.9
Gas	5.0	5.4	5.8	6.3	6.0	5.6	5.4	5.5	5.7	4.8	33.4
Coal	4.6	4.8	4.6	4.8	5.5	5.9	6.2	6.6	6.8	7.0	48.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.8	0.9	1.2	1.2	1.7	2.3	2.3	2.2	2.2	15.3
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9
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	0.9
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	43.7	46.6	52.8	52.0	50.7	55.2	60.5	62.5	63.8	57.0	100.0
Industry	14.1	15.6	15.0	14.8	15.0	16.2	17.6	19.4	19.8	18.6	32.7
Transport	15.2	15.3	20.1	22.5	21.2	21.7	21.0	21.1	21.4	17.4	30.6
Residential/Commercial	7.1	7.2	7.5	7.5	7.6	8.1	8.3	7.8	8.1	7.6	13.3
Oil final consumption, by sector	23.6	24.1	28.1	29.3	27.5	28.3	28.9	28.3	28.6	23.2	100.0
Industry	3.6	4.4	3.8	3.1	3.2	2.6	2.8	2.8	2.8	2.2	9.7
Transport	14.9	14.9	19.6	21.9	20.5	21.1	20.5	20.5	20.8	16.8	72.6
Residential/Commercial	1.8	1.6	1.7	1.5	1.5	1.5	1.9	1.2	1.3	1.1	4.7
Natural gas final consumption, by sector	8.6	10.2	12.0	9.6	9.6	12.3	16.8	18.9	19.4	18.6	100.0
Industry	4.3	4.6	4.5	4.9	4.8	6.0	6.8	8.3	8.5	8.1	43.8
Transport	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.6
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	23.6	24.1	28.1	29.3	27.5	28.3	28.9	28.3	28.6	23.2	100.0
Gasoline	8.2	8.9	12.7	12.7	12.8	13.4	13.4	13.0	13.3	11.3	48.8
Diesel	8.7	8.8	9.6	10.6	9.4	9.3	9.7	9.8	9.8	7.1	30.9
Heating Oil	0.4	0.8	0.3	0.3	0.7	0.5	0.6	0.4	0.4	0.3	1.2
Aviation Jet	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	2.0
LPG	2.9	2.9	2.9	2.6	2.3	3.5	3.5	3.3	3.4	2.9	12.7
Imports	27.9	30.8	37.1	37.8	30.5	33.1	30.5	36.0	38.5	40.2	100.0
Oil	20.9	22.9	28.6	29.3	22.7	26.2	23.5	29.0	30.1	31.8	78.9
Gas	7.0	7.9	8.5	8.5	7.8	6.8	7.0	7.0	8.4	8.5	21.1
Gasoline	4.2	5.9	8.8	8.3	7.6	8.6	5.1	10.6	9.4	10.6	26.3
Diesel	3.8	3.5	5.1	6.2	4.6	3.9	5.2	6.9	6.8	6.0	14.9
Heating Oil	1.5	0.8	3.0	3.1	1.0	0.1	0.2	0.1	0.1	0.1	0.2
Aviation Jet	0.5	0.3	0.9	0.5	0.6	1.4	1.2	0.5	0.8	1.7	4.1
LPG	0.5	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	1.3
Exports	48.9	53.0	51.4	52.5	54.5	57.2	56.9	58.4	55.1	57.5	100.0
Oil	20.9	26.1	22.8	23.5	26.3	28.9	26.0	31.0	26.6	30.7	53.5
Gas	28.0	26.9	28.6	29.0	28.1	28.3	30.9	27.3	28.4	26.7	46.5
Gasoline	0.0	2.1	0.1	0.0	0.4	0.5	0.3	3.1	2.8	4.7	8.2
Diesel	4.4	5.3	5.3	5.3	5.4	4.8	5.1	7.2	7.5	8.0	13.9
Heating Oil	0.3	1.0	3.0	4.3	1.4	0.6	0.6	1.4	1.2	1.3	2.3
Aviation Jet	0.7	1.0	0.6	0.5	0.5	1.1	1.3	0.8	0.8	2.2	3.8
LPG	1.0	0.4	0.3	0.3	0.3	0.4	0.2	0.5	0.4	0.4	0.7
CO₂ Emissions (Million tons CO₂)	199.4	202.5	221.3	228.3	228.2	227.5	227.9	246.2	252.2	233.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	326.7	314.6	328.4	319.6	304.0	290.1	274.8	283.5	278.4	273.6	-
Final energy intensity (toe/million \$15ppp)	61.1	60.8	64.8	64.1	59.6	59.2	57.9	56.7	55.5	52.1	-
Total energy intensity (toe/million \$15ppp)	124.8	120.3	129.5	124.5	113.3	112.7	102.8	108.2	106.1	103.2	-

*Heat is included

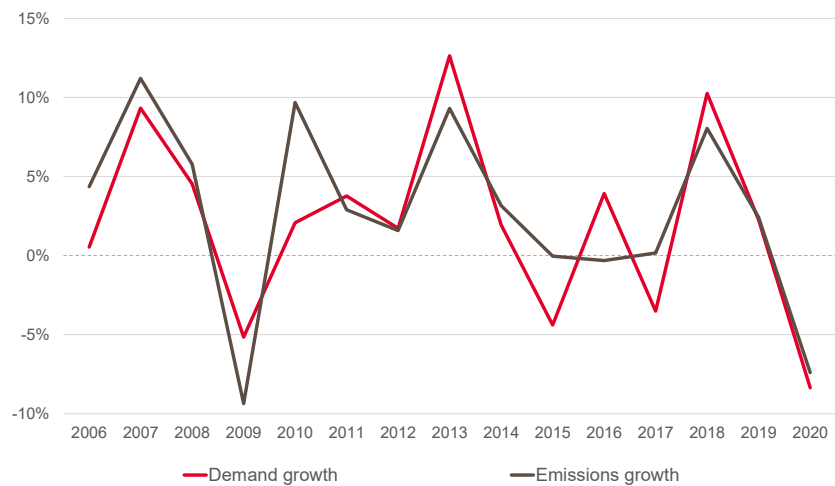
Primary energy demand mix



Electricity generation by source



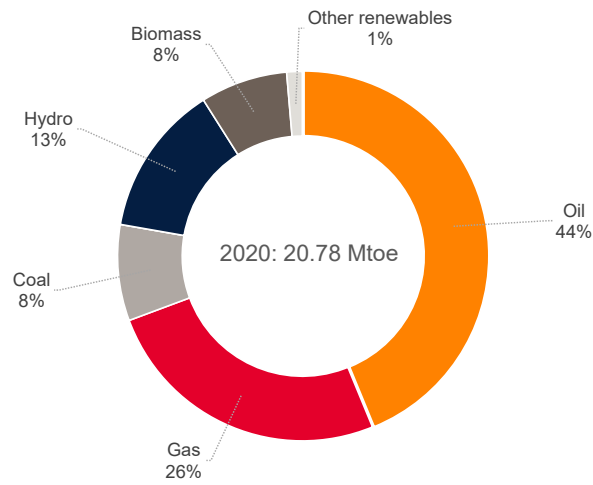
Primary energy demand and CO₂ emissions growth



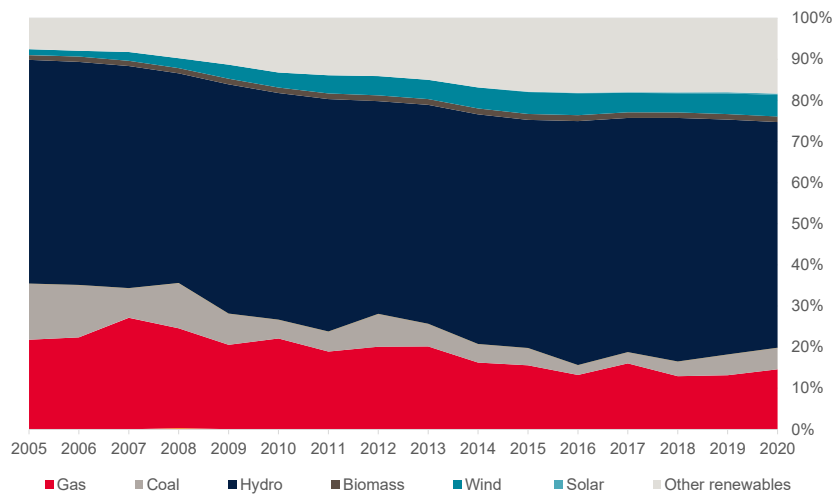
New Zealand (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	18.4	19.4	19.5	20.5	20.8	20.6	20.7	20.4	20.7	20.8	100.0
Oil	6.1	6.5	6.4	6.5	6.8	6.7	6.8	6.8	6.6	6.9	33.1
Gas	3.4	3.8	4.0	4.4	4.1	4.2	4.2	3.8	4.0	4.0	19.3
Coal	1.4	1.6	1.4	1.3	1.4	1.1	1.2	1.2	1.4	1.3	6.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.2	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	10.0
Biomass	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.8
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0
Electricity balance of trade*	4.0	4.1	4.4	4.9	5.1	4.9	4.9	4.9	5.1	5.1	24.4
Total final consumption, by source	13.1	13.3	13.7	14.6	14.5	14.8	15.0	14.7	15.1	14.1	100.0
Oil	5.9	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.8	6.3	44.6
Gas	1.7	1.9	2.3	3.0	2.7	2.9	2.8	2.5	2.8	2.5	17.5
Coal	0.8	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	5.6
Electricity	3.4	3.4	3.3	3.4	3.4	3.4	3.3	3.3	3.4	3.3	23.5
Heat	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.4
Biomass	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	7.5
Electricity generation, by source	3.8	3.8	3.7	3.7	3.8	3.8	3.8	3.8	3.9	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	0.7	0.8	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	14.6
Coal	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	5.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.2	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	54.9
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Wind	0.2	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	0.4
Other renewables	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	18.3
Total final consumption, by sector	13.1	13.3	13.7	14.6	14.5	14.8	15.0	14.7	15.1	14.1	100.0
Industry	4.3	4.2	4.5	4.8	4.7	4.7	4.8	4.6	4.8	4.4	31.6
Transport	4.6	4.5	4.6	4.6	4.8	4.9	5.3	5.4	5.3	4.8	34.3
Residential/Commercial	2.7	2.8	2.7	2.7	2.8	2.8	2.8	2.7	2.7	2.7	19.3
Oil final consumption, by sector	5.9	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.8	6.3	100.0
Industry	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	7.2
Transport	4.6	4.5	4.6	4.6	4.8	4.9	5.2	5.4	5.3	4.8	76.7
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	4.4
Natural gas final consumption, by sector	1.7	1.9	2.3	3.0	2.7	2.9	2.8	2.5	2.8	2.5	100.0
Industry	0.9	0.9	1.1	1.4	1.2	1.3	1.3	1.2	1.3	1.1	46.2
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	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	10.6
Refined products consumption	5.9	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.8	6.3	100.0
Gasoline	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.3	36.2
Diesel	2.6	2.6	2.7	2.8	2.9	2.9	3.1	3.2	3.3	3.2	51.0
Heating Oil	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6
Aviation Jet	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	3.6
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.4
Imports	7.3	7.5	7.6	7.6	7.6	8.2	8.1	8.3	8.1	7.1	100.0
Oil	7.3	7.5	7.6	7.6	7.6	8.2	8.1	8.3	8.1	7.1	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	1.2	1.2	1.2	1.1	1.0	1.1	1.0	0.9	1.0	14.1
Diesel	0.7	0.5	0.7	0.8	0.7	1.1	1.0	1.3	1.2	1.3	18.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Aviation Jet	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	1.5
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Exports	2.4	2.1	1.8	2.0	2.0	1.8	1.6	1.3	1.3	0.9	100.0
Oil	2.4	2.1	1.8	2.0	2.0	1.8	1.6	1.3	1.3	0.9	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	0.0	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	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	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	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	29.3	31.1	31.3	31.9	31.7	31.2	32.7	32.2	32.1	30.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	191.5	199.1	194.9	191.9	183.9	174.9	177.8	170.0	165.9	170.3	-
Final energy intensity (toe/million \$15ppp)	80.2	78.8	78.1	78.0	75.9	73.7	73.4	70.7	70.3	72.2	-
Total energy intensity (toe/million \$15ppp)	120.6	124.0	121.6	123.6	120.7	115.2	112.4	108.0	107.2	118.0	-

*Heat is included

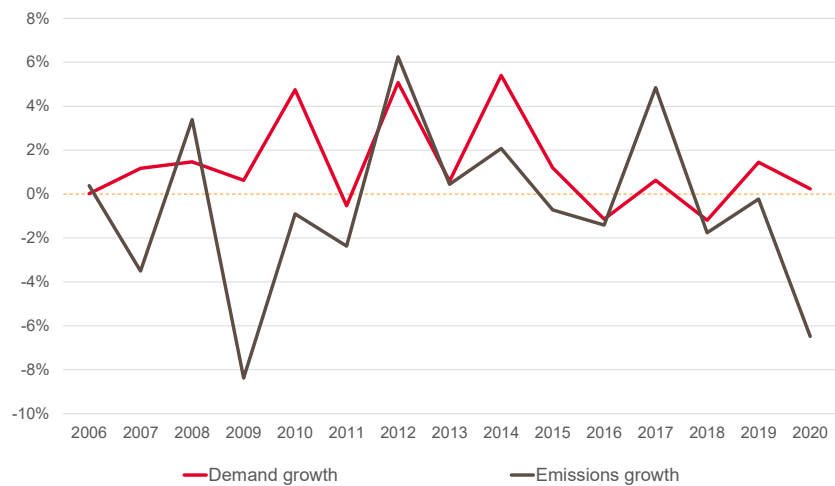
Primary energy demand mix



Electricity generation by source



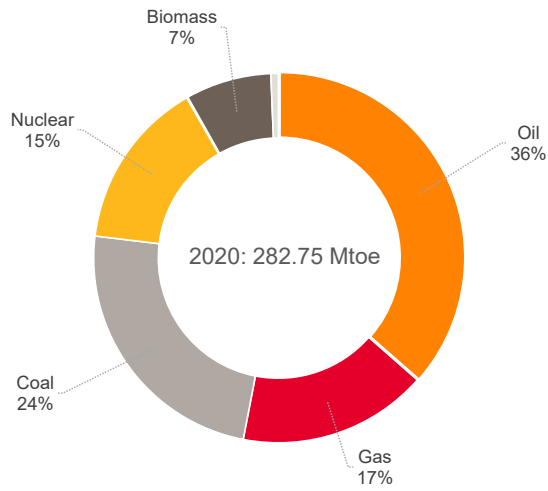
Primary energy demand and CO₂ emissions growth



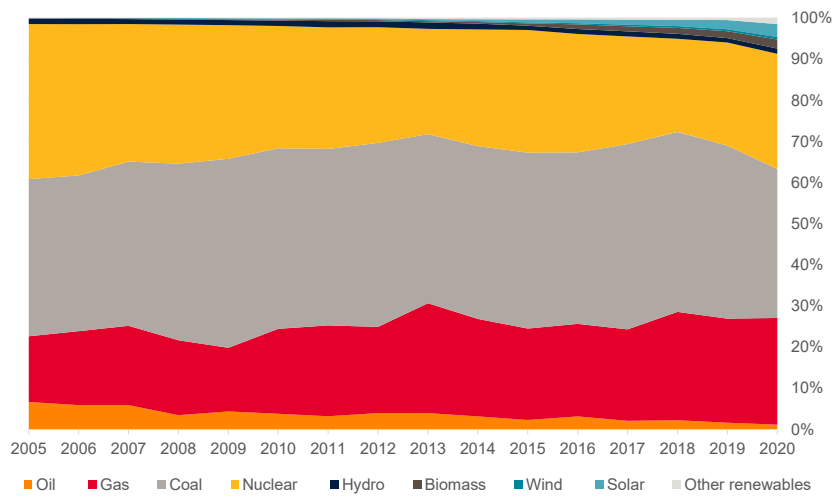
South Korea (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	266.5	270.5	271.5	276.8	283.0	293.3	295.0	295.8	292.5	282.8	100.0
Oil	93.7	97.2	96.6	96.3	102.7	109.8	109.1	110.4	109.2	102.7	36.3
Gas	41.6	45.0	47.6	43.1	39.3	41.3	43.2	47.7	46.2	46.8	16.5
Coal	80.3	77.1	77.9	81.7	80.8	81.5	82.6	80.5	76.3	67.2	23.8
Nuclear	40.3	39.2	36.2	40.8	42.9	42.2	38.7	34.8	38.0	41.7	14.8
Hydro	0.4	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.1
Biomass	9.9	11.4	12.4	14.0	16.2	17.4	20.0	20.6	20.6	21.1	7.5
Other renewables	0.2	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.4	1.8	0.6
Electricity balance of trade*	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.6	1.0	0.4
Total final consumption, by source	177.6	182.8	185.6	187.9	193.7	199.7	206.0	205.8	203.1	195.0	100.0
Oil	82.1	84.4	84.6	86.5	90.3	94.1	97.4	94.7	94.3	89.0	45.6
Gas	21.5	22.7	24.1	22.2	20.5	21.5	22.2	22.4	21.5	20.7	10.6
Coal	20.2	19.8	19.6	20.1	21.0	19.5	18.6	19.4	19.0	18.1	9.3
Electricity	40.5	41.4	41.9	41.9	42.6	44.5	45.0	45.7	45.2	44.2	22.7
Heat	4.6	4.4	4.4	4.7	4.5	5.0	5.3	5.8	5.8	5.8	3.0
Biomass	8.8	10.1	11.0	12.5	14.8	15.2	17.5	17.8	17.4	17.2	8.8
Electricity generation, by source	45.0	46.0	46.6	47.4	47.5	48.4	48.8	50.7	50.1	49.1	100.0
Oil	1.4	1.8	1.8	1.5	1.1	1.5	1.0	1.1	0.8	0.6	1.1
Gas	10.0	9.6	12.5	11.2	10.6	10.9	10.8	13.4	12.7	12.7	25.9
Coal	19.3	20.6	19.2	19.9	20.3	20.2	22.0	22.2	21.1	17.8	36.2
Nuclear	13.3	12.9	11.9	13.5	14.2	13.9	12.8	11.5	12.5	13.8	28.1
Hydro	0.7	0.7	0.7	0.7	0.5	0.6	0.6	0.6	0.5	0.6	1.3
Biomass	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.7	0.8	1.1	2.2
Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.6
Solar	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	3.2
Other renewables	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.7	1.4
Total final consumption, by sector	177.6	182.8	185.6	187.9	193.7	199.7	206.0	205.8	203.1	195.0	100.0
Industry	61.4	62.3	64.3	65.4	67.1	66.5	68.8	70.2	69.0	66.3	34.0
Transport	29.9	30.7	31.9	32.4	34.4	35.4	36.1	35.6	36.4	34.5	17.7
Residential/Commercial	43.2	43.3	42.4	41.3	42.1	45.1	45.9	46.3	44.8	44.9	23.0
Oil final consumption, by sector	82.1	84.4	84.6	86.5	90.3	94.1	97.4	94.7	94.3	89.0	100.0
Industry	5.2	4.1	3.5	3.5	3.4	3.6	3.6	3.7	3.6	3.6	4.0
Transport	28.4	29.1	30.1	30.6	32.6	33.4	34.1	33.5	34.3	32.5	36.5
Residential/Commercial	6.8	6.3	5.7	5.4	6.2	6.4	6.4	6.1	5.5	5.6	6.3
Natural gas final consumption, by sector	21.5	22.7	24.1	22.2	20.5	21.5	22.2	22.4	21.5	20.7	100.0
Industry	8.2	9.2	9.8	8.8	7.4	7.5	7.5	7.5	7.1	6.5	31.5
Transport	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	5.3
Residential/Commercial	12.2	12.4	13.1	12.2	11.9	12.8	13.5	13.7	13.2	13.1	63.3
Refined products consumption	82.1	84.4	84.6	86.5	90.3	94.1	97.4	94.7	94.3	89.0	100.0
Gasoline	8.7	8.6	9.2	9.2	9.6	9.9	9.9	10.0	10.3	9.9	11.2
Diesel	18.3	18.9	19.8	20.1	21.7	22.1	22.9	22.0	22.6	21.6	24.3
Heating Oil	3.6	2.6	1.8	1.6	1.7	1.9	1.6	1.5	1.2	1.1	1.2
Aviation Jet	1.0	1.3	1.2	1.5	1.7	1.7	1.8	1.8	1.7	1.7	1.9
LPG	9.1	8.3	8.6	8.3	8.7	9.5	9.2	9.8	10.8	10.8	12.2
Imports	202.8	211.3	213.6	212.4	218.6	229.4	234.5	243.6	235.8	221.8	100.0
Oil	160.9	168.5	165.9	168.3	179.7	189.8	190.9	194.0	187.8	174.3	78.6
Gas	41.9	42.8	47.7	44.0	38.9	39.6	43.6	49.6	47.9	47.5	21.4
Gasoline	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0
Diesel	0.4	0.9	1.4	0.8	0.3	0.3	0.3	0.2	0.1	0.0	0.0
Heating Oil	2.4	4.2	7.1	8.0	7.2	7.2	6.1	6.7	4.9	4.6	2.1
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	7.3	7.1	6.4	6.1	6.0	8.3	7.2	7.4	8.8	9.4	4.2
Exports	54.9	58.8	56.9	59.0	62.8	64.3	66.8	70.9	69.1	65.9	100.0
Oil	54.9	58.8	56.9	59.0	62.8	64.3	66.8	70.9	69.1	65.9	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	6.7	7.9	8.0	9.1	9.9	9.5	10.2	11.0	11.0	9.2	14.0
Diesel	21.7	24.1	22.3	23.8	23.5	23.9	24.0	26.0	26.7	27.3	41.4
Heating Oil	5.3	4.3	3.4	2.1	1.6	2.0	2.5	4.1	2.8	2.1	3.2
Aviation Jet	10.9	12.3	12.0	12.6	14.4	14.9	16.1	15.5	13.6	15.1	23.0
LPG	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.5	0.6	0.6	0.9
CO₂ Emissions (Million tons CO₂)	625.6	630.8	628.2	624.3	638.4	655.9	665.3	667.4	608.4	569.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	383.4	378.0	365.8	351.8	350.0	349.3	343.8	335.9	300.1	283.9	-
Final energy intensity (toe/million \$15ppp)	84.3	83.5	82.6	79.9	80.2	79.7	79.3	78.0	75.4	73.9	-
Total energy intensity (toe/million \$15ppp)	163.3	162.1	158.1	156.0	155.1	156.2	152.5	148.9	144.3	140.9	-

*Heat is included

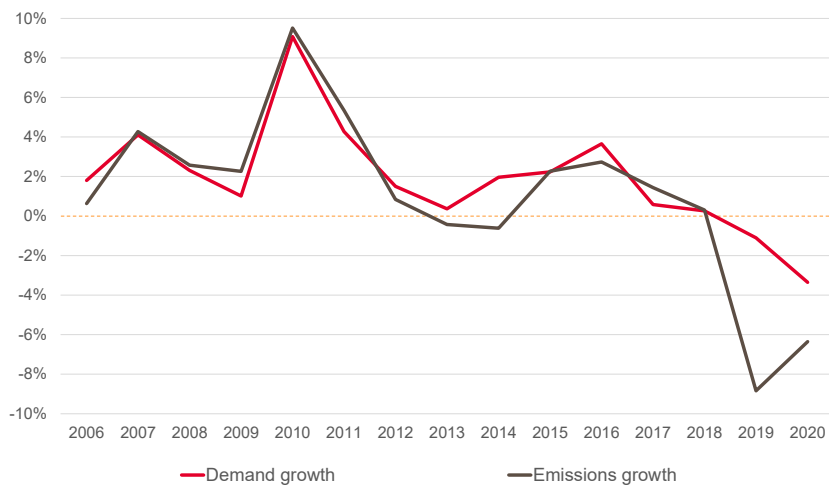
Primary energy demand mix



Electricity generation by source



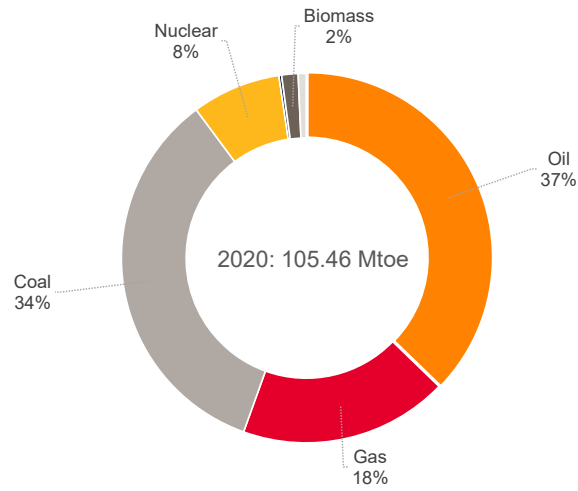
Primary energy demand and CO₂ emissions growth



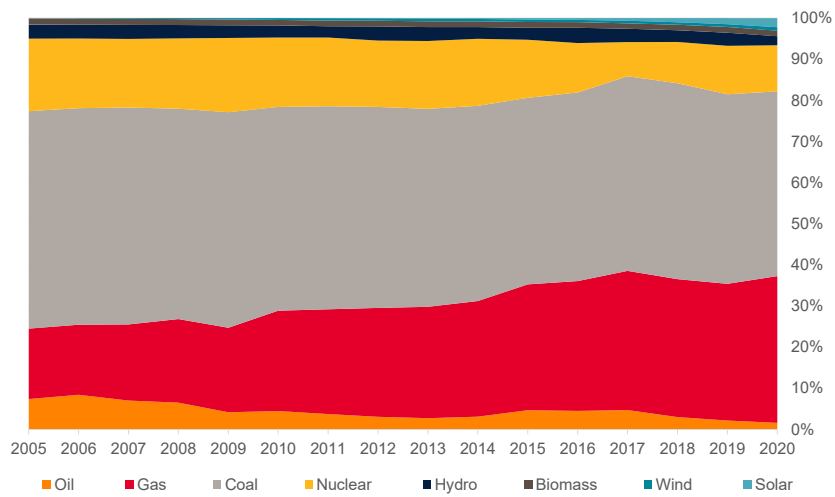
Taiwan (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	105.5	105.0	106.9	109.1	106.9	108.6	107.4	110.3	107.6	105.5	100.0
Oil	41.4	40.9	42.0	42.8	43.0	43.6	43.0	43.1	40.0	39.2	37.2
Gas	13.1	13.7	13.7	14.5	15.6	16.3	17.9	18.1	17.8	19.3	18.3
Coal	37.7	37.5	37.9	38.5	36.5	38.1	38.3	39.5	38.7	36.2	34.3
Nuclear	11.0	10.5	10.9	11.0	9.5	8.3	5.8	7.2	8.4	8.2	7.8
Hydro	0.3	0.5	0.5	0.4	0.4	0.6	0.5	0.4	0.5	0.3	0.2
Biomass	1.6	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.4
Other renewables	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.7
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	70.1	69.9	72.6	73.8	73.5	74.3	73.6	74.8	72.4	73.0	100.0
Oil	37.4	37.3	38.8	39.1	39.3	39.3	38.6	39.2	36.9	37.1	50.8
Gas	2.2	2.4	2.5	2.7	2.8	3.0	3.2	3.5	3.6	3.7	5.1
Coal	9.5	9.1	10.0	10.1	9.6	9.9	9.4	8.6	8.6	8.4	11.5
Electricity	19.2	19.1	19.5	20.0	19.9	20.3	20.8	21.3	21.2	21.7	29.7
Heat	1.4	1.5	1.4	1.4	1.3	1.3	1.3	1.9	1.8	1.8	2.4
Biomass	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5
Electricity generation, by source	21.7	21.5	21.7	22.4	22.2	22.7	23.2	23.7	23.6	24.1	100.0
Oil	0.8	0.7	0.6	0.7	1.0	1.0	1.1	0.7	0.5	0.4	1.6
Gas	5.5	5.7	5.9	6.3	6.8	7.2	7.9	7.9	7.8	8.6	35.7
Coal	10.7	10.5	10.5	10.6	10.1	10.4	11.0	11.3	10.9	10.8	44.9
Nuclear	3.6	3.5	3.6	3.6	3.1	2.7	1.9	2.4	2.8	2.7	11.2
Hydro	0.6	0.7	0.7	0.6	0.6	0.8	0.8	0.7	0.8	0.5	2.2
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.3
Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.9
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	2.2
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	70.1	69.9	72.6	73.8	73.5	74.3	73.6	74.8	72.4	73.0	100.0
Industry	26.7	26.1	27.0	27.3	26.3	26.7	26.6	27.1	26.6	26.6	36.5
Transport	12.1	11.8	11.8	12.0	12.3	12.6	12.5	12.3	12.4	12.4	17.0
Residential/Commercial	10.9	10.7	10.7	10.9	11.0	11.3	11.3	11.1	11.0	11.3	15.5
Oil final consumption, by sector	37.4	37.3	38.8	39.1	39.3	39.3	38.6	39.2	36.9	37.1	100.0
Industry	3.7	3.1	2.8	2.5	2.0	1.8	1.8	1.6	1.3	1.1	2.9
Transport	12.0	11.7	11.7	11.8	12.2	12.5	12.4	12.1	12.2	12.3	33.1
Residential/Commercial	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.7	4.6
Natural gas final consumption, by sector	2.2	2.4	2.5	2.7	2.8	3.0	3.2	3.5	3.6	3.7	100.0
Industry	1.2	1.5	1.6	1.8	1.9	2.0	2.3	2.5	2.6	2.7	71.9
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	1.0	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	26.8
Refined products consumption	37.4	37.3	38.8	39.1	39.3	39.3	38.6	39.2	36.9	37.1	100.0
Gasoline	7.7	7.5	7.5	7.6	7.9	8.2	8.0	7.8	7.8	7.9	21.4
Diesel	4.7	4.6	4.6	4.7	4.7	4.8	4.7	4.7	4.8	4.9	13.1
Heating Oil	3.8	3.2	2.9	2.5	2.1	1.9	1.8	1.6	1.2	1.0	2.6
Aviation Jet	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.5
LPG	2.6	2.3	3.0	3.0	2.6	3.3	2.6	3.1	3.1	2.6	6.9
Imports	70.6	74.5	75.1	79.0	78.7	80.6	81.7	82.9	81.1	74.8	100.0
Oil	57.6	61.0	61.5	64.7	63.4	64.6	63.9	64.8	63.1	55.5	74.2
Gas	12.9	13.5	13.5	14.3	15.3	16.0	17.8	18.2	18.0	19.3	25.8
Gasoline	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.3
Diesel	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	1.4	1.0	1.5	1.8	1.0	1.7	2.5	2.2	1.2	0.6	0.7
Aviation Jet	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.0	0.1	0.1
LPG	1.3	0.9	1.4	2.0	1.6	2.1	1.5	2.1	2.1	1.8	2.4
Exports	13.9	17.0	17.5	17.5	17.0	17.3	17.3	18.4	19.6	13.0	100.0
Oil	13.9	17.0	17.5	17.5	17.0	17.3	17.3	18.4	19.6	13.0	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	2.8	3.4	4.3	4.2	4.3	4.7	4.4	4.1	3.7	1.8	14.0
Diesel	7.7	9.3	9.9	9.9	9.0	8.9	8.3	9.4	10.0	6.6	50.7
Heating Oil	0.9	1.3	0.6	0.7	1.0	1.3	1.6	1.9	1.8	1.6	12.3
Aviation Jet	1.1	1.3	1.3	1.0	1.0	0.9	0.8	1.0	0.9	0.8	6.1
LPG	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.3
CO₂ Emissions (Million tons CO₂)	259.9	255.5	257.4	264.5	265.1	268.5	275.8	271.7	261.2	257.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	540.0	520.1	512.6	506.4	503.4	502.8	502.0	481.3	450.5	443.3	-
Final energy intensity (toe/million \$15ppp)	105.0	100.6	100.2	97.7	95.6	96.2	93.0	90.7	87.5	88.1	-
Total energy intensity (toe/million \$15ppp)	219.1	213.8	212.9	208.8	202.9	203.5	195.5	195.4	185.5	181.8	-

*Heat is included

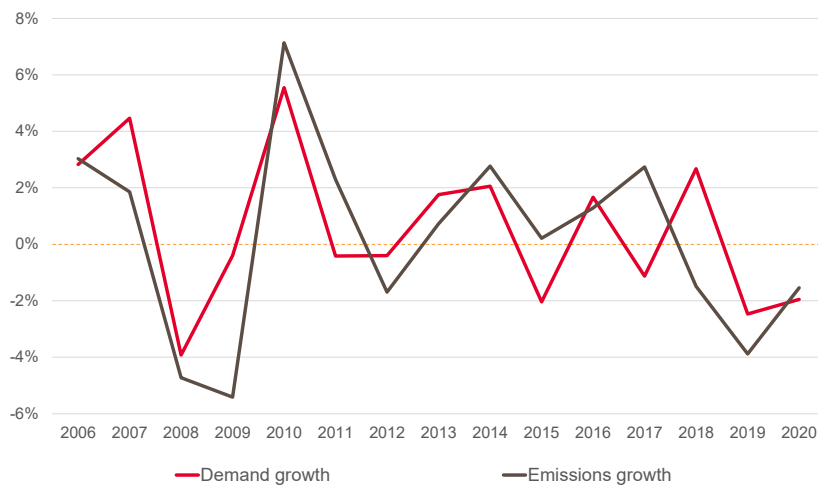
Primary energy demand mix



Electricity generation by source



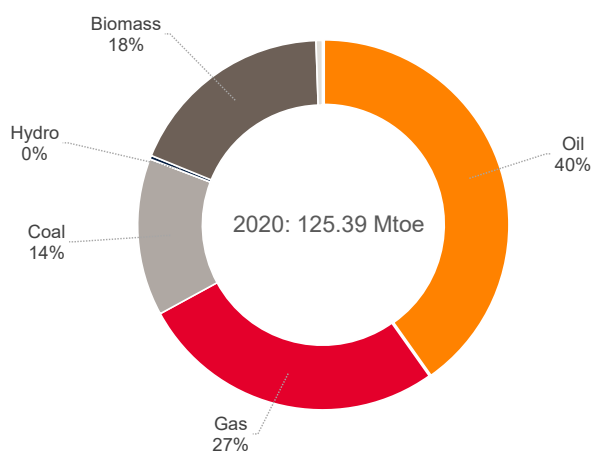
Primary energy demand and CO₂ emissions growth



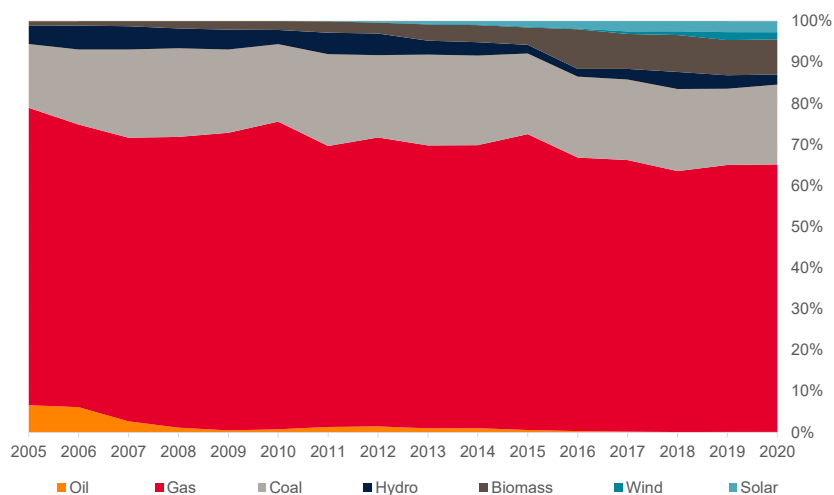
Thailand (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	117.6	126.3	136.3	135.6	136.2	139.4	138.6	135.8	136.5	125.4	100.0
Oil	47.2	49.5	54.9	54.6	54.7	56.6	57.0	55.4	54.8	49.4	39.4
Gas	30.8	35.2	37.9	37.8	37.8	36.9	36.0	35.5	36.1	33.0	26.4
Coal	16.4	16.5	17.2	15.9	16.9	15.4	16.4	15.8	16.0	17.0	13.5
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	0.8	0.5	0.5	0.3	0.3	0.4	0.7	0.5	0.4	0.3
Biomass	21.8	23.5	24.7	25.7	25.3	28.2	26.3	25.7	26.4	22.5	17.9
Other renewables	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.8	0.7	0.5
Electricity balance of trade*	0.8	0.7	1.0	0.9	1.1	1.6	2.0	2.2	2.0	2.4	1.9
Total final consumption, by source	85.7	91.9	95.9	96.6	98.0	97.1	98.8	100.2	102.2	90.4	100.0
Oil	45.4	48.3	51.8	51.8	51.9	53.5	53.8	54.7	55.4	48.0	53.1
Gas	5.8	6.1	7.1	7.4	7.1	7.1	6.9	7.2	7.0	5.5	6.1
Coal	7.5	7.8	7.3	6.4	8.2	6.1	7.5	6.8	7.1	7.9	8.7
Electricity	12.8	13.9	14.1	14.5	15.0	15.9	15.9	16.2	16.7	16.1	17.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	14.2	15.7	15.5	16.5	15.9	14.5	14.7	15.3	16.0	12.9	14.3
Electricity generation, by source	13.4	14.3	14.6	14.8	15.2	16.1	15.6	15.7	16.5	15.6	100.0
Oil	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Gas	9.2	10.1	10.1	10.2	10.9	10.7	10.3	9.9	10.7	10.1	65.0
Coal	3.0	2.9	3.2	3.2	3.0	3.2	3.1	3.1	3.1	3.0	19.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.8	0.5	0.5	0.3	0.3	0.4	0.7	0.5	0.4	2.5
Biomass	0.4	0.4	0.6	0.6	0.6	1.6	1.3	1.4	1.4	1.3	8.5
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	1.7
Solar	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	2.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	85.7	91.9	95.9	96.6	98.0	97.1	98.8	100.2	102.2	90.4	100.0
Industry	25.1	28.2	28.4	30.6	31.1	30.2	30.4	30.2	30.9	28.4	31.4
Transport	21.1	22.4	22.7	22.4	23.8	25.2	27.3	27.6	28.4	27.4	30.4
Residential/Commercial	16.9	18.1	17.5	16.6	16.6	15.8	15.6	14.9	15.4	14.3	15.8
Oil final consumption, by sector	45.4	48.3	51.8	51.8	51.9	53.5	53.8	54.7	55.4	48.0	100.0
Industry	2.9	3.7	5.0	6.3	4.8	5.5	4.0	2.9	2.8	2.5	5.2
Transport	18.5	19.2	19.0	18.4	19.8	21.3	23.6	23.9	24.7	24.1	50.3
Residential/Commercial	3.1	3.6	2.8	2.6	2.5	2.5	2.5	2.5	2.5	2.4	5.0
Natural gas final consumption, by sector	5.8	6.1	7.1	7.4	7.1	7.1	6.9	7.2	7.0	5.5	100.0
Industry	2.2	2.4	2.4	2.4	3.0	3.2	3.2	3.4	3.5	3.1	55.8
Transport	1.9	2.3	2.5	2.6	2.5	2.3	2.0	1.8	1.6	1.1	20.5
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	45.0	47.8	51.6	51.7	51.3	52.9	53.2	54.1	54.8	47.4	100.0
Gasoline	5.2	5.4	5.5	5.6	6.3	7.0	7.1	7.3	7.6	7.5	15.8
Diesel	16.6	17.9	18.1	18.3	18.0	18.6	19.0	18.5	19.3	18.8	39.6
Heating Oil	0.9	1.0	1.0	1.0	0.6	0.9	0.8	0.7	0.7	0.7	1.5
Aviation Jet	0.5	0.5	0.6	0.6	0.9	0.9	1.0	0.9	0.9	0.3	0.7
LPG	7.9	8.6	8.7	8.7	7.7	7.1	7.3	7.7	7.2	6.5	13.7
Imports	52.7	56.9	59.9	57.8	62.8	62.8	66.1	69.1	67.2	62.9	100.0
Oil	43.9	47.9	50.4	49.0	50.8	51.2	53.7	56.4	54.4	49.9	79.3
Gas	8.8	9.0	9.5	8.9	12.0	11.6	12.4	12.6	12.8	13.1	20.7
Gasoline	0.0	0.3	0.2	0.7	0.6	1.2	1.3	1.2	1.7	1.1	1.7
Diesel	0.0	0.0	0.2	0.3	0.1	0.7	0.7	0.5	2.1	0.0	0.1
Heating Oil	0.3	0.3	0.3	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	0.2
LPG	1.7	2.0	2.3	2.5	1.6	0.5	0.8	0.8	0.6	0.5	0.8
Exports	11.6	14.2	14.3	12.6	14.1	12.9	14.1	15.0	11.7	12.6	100.0
Oil	11.6	14.2	14.3	12.6	14.1	12.9	14.1	15.0	11.7	12.6	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	0.7	1.2	1.2	1.0	1.1	1.1	1.2	1.3	0.9	1.0	7.8
Diesel	3.5	4.7	4.2	3.8	5.4	4.2	4.6	4.8	3.3	5.0	39.9
Heating Oil	3.3	3.7	3.6	3.6	3.5	3.1	3.3	3.3	3.1	2.5	19.9
Aviation Jet	1.0	0.6	1.2	1.0	1.2	0.4	0.6	0.8	0.7	0.5	4.4
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.4	0.3	2.2
CO₂ Emissions (Million tons CO₂)	235.0	252.0	263.9	259.6	263.6	259.9	259.8	258.3	259.5	257.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	248.0	247.9	252.8	246.3	242.4	231.3	222.2	212.2	208.3	221.6	-
Final energy intensity (toe/million \$15ppp)	70.5	71.3	69.6	69.8	69.4	66.1	65.0	62.1	62.4	62.3	-
Total energy intensity (toe/million \$15ppp)	124.1	124.2	130.5	128.6	125.3	124.0	118.6	111.6	109.6	107.8	-

*Heat is included

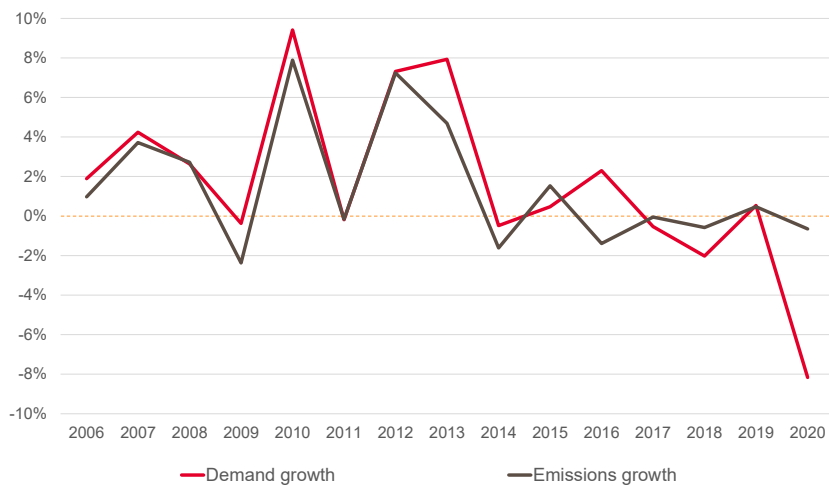
Primary energy demand mix



Electricity generation by source



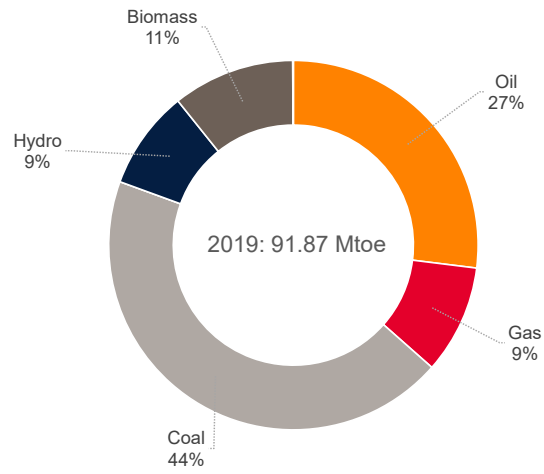
Primary energy demand and CO₂ emissions growth



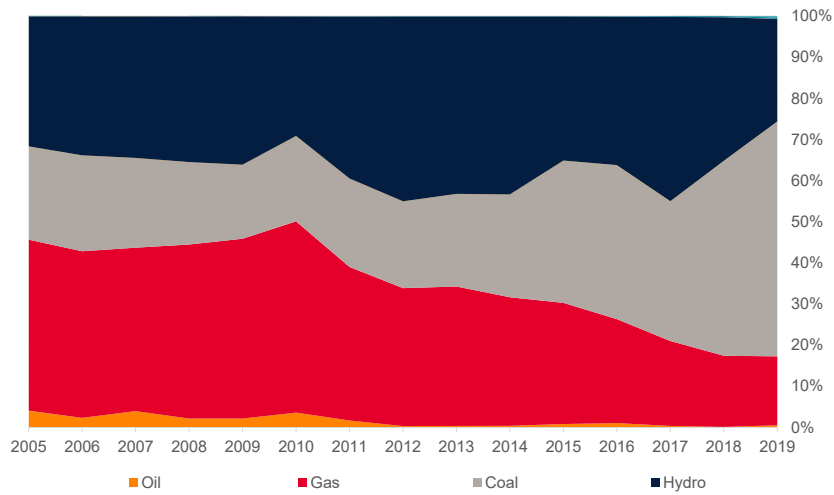
Vietnam (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	58.8	59.7	61.5	68.9	73.0	77.2	78.0	83.5	91.9	n.d.	n.d.
Oil	17.0	16.0	15.9	19.2	18.0	19.5	19.8	22.5	23.5	n.d.	n.d.
Gas	7.6	8.3	8.5	9.1	8.8	8.8	7.8	7.9	8.1	n.d.	n.d.
Coal	15.6	15.8	17.2	19.9	26.8	28.5	28.2	36.7	45.6	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	3.5	4.5	4.5	5.1	4.9	5.7	7.7	7.2	5.6	n.d.	n.d.
Biomass	14.9	15.0	15.2	15.3	14.4	14.7	14.4	8.9	8.9	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	n.d.	n.d.
Electricity balance of trade*	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	n.d.	n.d.
Total final consumption, by source	49.0	49.6	52.0	55.4	58.7	61.4	64.1	60.3	64.5	n.d.	n.d.
Oil	15.8	15.3	15.6	16.7	17.8	19.1	19.8	20.7	21.4	n.d.	n.d.
Gas	0.8	1.4	1.5	1.6	1.1	1.1	1.0	1.0	0.9	n.d.	n.d.
Coal	10.1	9.6	10.5	11.4	14.2	13.8	14.8	14.2	16.7	n.d.	n.d.
Electricity	8.1	9.1	10.0	11.0	12.1	13.5	14.9	16.3	17.4	n.d.	n.d.
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	14.1	14.2	14.4	14.5	13.6	13.9	13.6	8.1	8.1	n.d.	n.d.
Electricity generation, by source	9.0	10.1	10.4	11.9	14.0	15.7	17.1	20.7	22.5	n.d.	n.d.
Oil	0.2	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.1	n.d.	n.d.
Gas	3.3	3.4	3.5	3.7	4.1	4.0	3.5	3.6	3.8	n.d.	n.d.
Coal	1.9	2.1	2.3	3.0	4.9	5.9	5.8	9.8	12.9	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	3.5	4.5	4.5	5.1	4.9	5.7	7.7	7.2	5.6	n.d.	n.d.
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	n.d.	n.d.
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	n.d.	n.d.
Other renewables	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	n.d.	n.d.
Total final consumption, by sector	49.0	49.6	52.0	55.4	58.7	61.4	64.1	60.3	64.5	n.d.	n.d.
Industry	18.2	18.7	19.8	21.8	31.8	33.4	34.4	31.5	34.5	n.d.	n.d.
Transport	10.1	10.0	9.8	10.0	12.4	13.3	13.9	13.4	13.9	n.d.	n.d.
Residential/Commercial	18.3	18.7	19.4	19.8	12.8	13.1	14.0	12.6	13.5	0.0	0.0
Oil final consumption, by sector	15.8	15.3	15.6	16.7	17.8	19.1	19.8	20.7	21.4	n.d.	n.d.
Industry	1.9	1.6	1.4	1.6	2.6	2.9	2.9	3.6	3.9	n.d.	n.d.
Transport	10.1	10.0	9.8	10.0	12.4	13.3	13.9	13.4	13.9	n.d.	n.d.
Residential/Commercial	1.6	1.5	1.5	1.6	1.7	1.9	1.9	1.8	1.9	n.d.	n.d.
Natural gas final consumption, by sector	0.8	1.4	1.5	1.6	1.1	1.1	1.0	1.0	0.9	n.d.	n.d.
Industry	0.8	1.4	1.5	1.6	1.1	1.1	1.0	1.0	0.9	n.d.	n.d.
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Refined products consumption	15.8	15.3	15.6	16.7	17.8	19.1	19.8	20.7	21.4	n.d.	n.d.
Gasoline	4.7	4.8	4.8	4.7	6.3	6.1	6.5	6.7	7.0	n.d.	n.d.
Diesel	7.0	6.7	6.2	6.7	7.9	9.1	9.4	9.9	10.2	n.d.	n.d.
Heating Oil	0.6	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.1	n.d.	n.d.
Aviation Jet	0.3	0.3	0.4	0.4	0.6	0.7	0.7	0.8	0.8	n.d.	n.d.
LPG	1.4	1.4	1.5	1.5	2.1	2.2	2.3	1.7	2.0	n.d.	n.d.
Imports	13.4	11.7	10.7	12.6	12.2	14.2	16.4	18.9	19.8	n.d.	n.d.
Oil	13.4	11.7	10.7	12.6	12.2	14.2	16.4	18.9	19.8	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	3.1	3.0	2.4	2.6	2.8	2.6	3.3	2.1	2.1	n.d.	n.d.
Diesel	5.4	4.6	3.2	4.2	5.3	6.8	7.4	6.4	4.8	n.d.	n.d.
Heating Oil	1.5	0.8	0.7	0.7	0.7	0.9	0.6	0.7	0.8	n.d.	n.d.
Aviation Jet	1.0	1.0	1.2	1.2	1.4	1.6	1.8	2.1	2.1	n.d.	n.d.
LPG	0.8	0.7	0.8	0.8	1.2	1.3	1.5	0.9	0.9	n.d.	n.d.
Exports	10.6	11.1	9.8	10.6	10.6	8.4	8.6	5.7	5.9	n.d.	n.d.
Oil	10.6	11.1	9.8	10.6	10.6	8.4	8.6	5.7	5.9	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	0.4	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	n.d.	n.d.
Diesel	1.1	0.8	0.5	0.4	0.5	0.5	0.5	0.6	0.6	n.d.	n.d.
Heating Oil	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.5	n.d.	n.d.
Aviation Jet	0.4	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	n.d.	n.d.
LPG	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.3	n.d.	n.d.
CO₂ Emissions (Million tons CO₂)	127.0	126.3	132.2	146.6	183.2	194.3	192.0	228.3	267.6	n.d.	n.d.
CO₂ Intensity (tCO₂/million \$15ppp)	281.8	266.3	264.3	276.5	324.0	323.4	299.2	332.3	363.9	n.d.	n.d.
Final energy intensity (toe/million \$15ppp)	104.8	101.1	99.1	98.5	102.6	101.2	98.9	85.6	86.0	n.d.	n.d.
Total energy intensity (toe/million \$15ppp)	130.5	125.9	122.9	129.9	129.2	128.6	121.5	121.5	125.0	n.d.	n.d.

*Heat is included

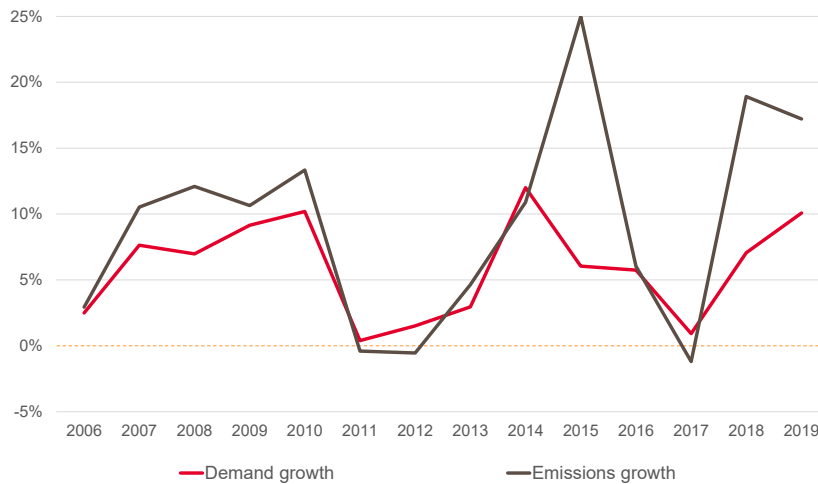
Primary energy demand mix



Electricity generation by source



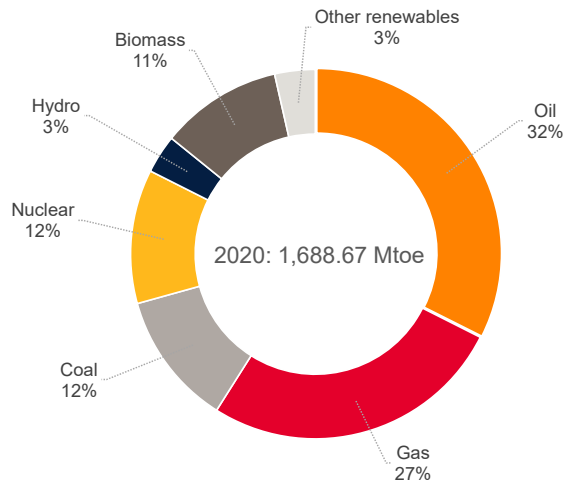
Primary energy demand and CO₂ emissions growth



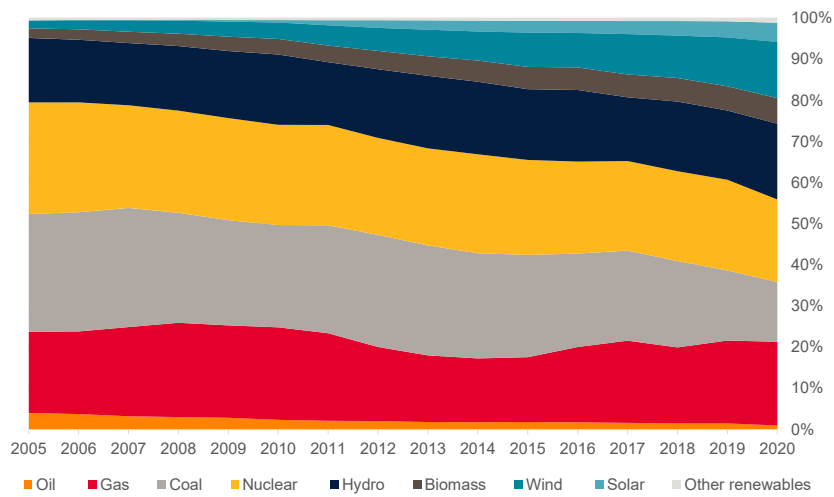
Europe (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	1,873.5	1,864.9	1,847.1	1,779.1	1,808.8	1,824.9	1,858.6	1,839.9	1,810.7	1,688.7	100.0
Oil	612.9	592.9	581.3	572.4	585.5	592.2	608.1	593.8	592.0	538.1	31.9
Gas	450.6	441.4	435.5	393.9	408.3	431.4	452.3	444.0	450.1	440.5	26.1
Coal	339.2	345.9	335.1	316.7	313.5	296.4	290.3	281.1	236.7	194.4	11.5
Nuclear	243.3	236.6	235.3	235.6	229.4	224.3	221.5	222.2	221.4	194.9	11.5
Hydro	47.3	52.3	55.1	54.0	53.6	54.8	48.9	53.9	53.0	55.7	3.3
Biomass	142.4	153.5	157.1	155.0	160.1	164.1	168.2	170.3	175.1	177.2	10.5
Other renewables	20.3	25.1	29.3	32.1	37.6	38.3	44.5	47.1	53.1	58.6	3.5
Electricity balance of trade*	17.4	17.3	18.4	19.3	20.7	23.3	24.8	27.5	29.3	29.3	1.7
Total final consumption, by source	1,313.3	1,315.6	1,311.9	1,263.1	1,293.2	1,317.2	1,341.5	1,334.5	1,327.0	1,245.9	100.0
Oil	541.3	525.8	519.9	514.7	525.8	533.9	545.5	539.0	538.9	482.5	38.7
Gas	271.0	279.6	285.8	257.0	267.5	276.0	282.2	283.8	281.8	274.9	22.1
Coal	76.8	76.8	73.4	72.5	72.3	72.1	72.6	68.4	63.9	57.7	4.6
Electricity	276.8	278.6	277.0	271.6	276.3	280.4	283.9	285.0	281.8	270.8	21.7
Heat	56.5	57.8	57.9	54.0	55.3	57.3	57.7	57.2	56.6	56.4	4.5
Biomass	91.0	97.0	97.9	93.3	96.0	97.5	99.7	101.2	104.0	103.7	8.3
Electricity generation, by source	328.7	330.9	328.8	322.7	328.0	331.4	335.5	335.5	331.0	319.6	100.0
Oil	6.8	6.7	5.8	5.6	5.9	5.7	5.3	4.9	4.8	3.1	1.0
Gas	70.0	59.6	53.3	50.1	51.6	60.6	67.0	61.9	66.7	65.0	20.3
Coal	86.2	90.2	87.9	82.5	81.7	75.4	73.5	70.5	56.4	46.4	14.5
Nuclear	80.3	78.1	77.6	77.7	75.7	74.0	73.1	73.3	73.1	64.3	20.1
Hydro	50.1	55.3	58.0	56.9	56.5	57.7	52.0	56.8	55.7	58.7	18.4
Biomass	13.4	14.8	15.6	16.6	17.8	18.3	18.7	19.3	19.6	19.9	6.2
Wind	16.1	18.5	21.3	22.8	27.3	27.7	32.9	34.6	39.4	43.6	13.7
Solar	4.1	6.2	7.4	8.5	9.4	9.8	10.7	11.8	12.9	15.0	4.7
Other renewables	1.7	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.6	3.5	1.1
Total final consumption, by sector	1,313.3	1,315.6	1,311.9	1,263.1	1,293.2	1,317.2	1,341.5	1,334.5	1,327.0	1,245.9	100.0
Industry	330.5	326.0	322.2	318.9	320.4	320.9	332.3	334.1	327.1	311.5	25.0
Transport	348.5	341.6	340.0	344.9	353.9	363.5	370.5	375.1	378.2	333.6	26.8
Residential/Commercial	483.4	502.4	507.0	456.6	478.2	489.8	490.9	481.9	479.8	466.8	37.5
Oil final consumption, by sector	541.3	525.8	519.9	514.7	525.8	533.9	545.5	539.0	538.9	482.5	100.0
Industry	35.8	33.9	30.1	28.8	30.4	27.6	30.6	32.1	31.1	29.5	6.1
Transport	327.5	319.7	319.0	323.1	332.0	341.3	346.8	349.4	351.6	306.6	63.5
Residential/Commercial	59.3	58.5	59.8	52.4	54.0	53.9	53.4	47.7	47.9	44.2	9.2
Natural gas final consumption, by sector	271.0	279.6	285.8	257.0	267.5	276.0	282.2	283.8	281.8	274.9	100.0
Industry	91.9	91.4	92.8	90.8	89.2	90.1	95.5	95.5	93.7	90.0	32.8
Transport	1.3	1.4	1.5	1.6	1.7	1.8	1.7	1.9	2.0	1.9	0.7
Residential/Commercial	156.7	166.5	171.6	144.4	157.5	164.9	164.6	165.6	165.3	163.0	59.3
Refined products consumption	538.4	523.2	517.2	511.9	523.6	531.6	543.3	537.2	537.5	480.8	100.0
Gasoline	96.3	90.6	87.4	86.7	85.7	86.1	86.3	88.9	90.7	77.5	16.1
Diesel	292.8	288.9	290.1	287.1	297.6	304.1	309.7	306.6	306.7	277.5	57.7
Heating Oil	11.7	10.4	8.8	8.0	8.1	6.9	6.8	6.4	6.5	4.3	0.9
Aviation Jet	8.3	8.0	8.3	8.5	8.8	9.1	9.2	9.6	9.7	4.5	0.9
LPG	32.6	31.1	33.8	34.7	36.0	36.2	36.5	37.7	37.2	34.7	7.2
Imports	1,367.1	1,367.8	1,361.1	1,327.4	1,410.4	1,442.0	1,505.2	1,489.5	1,512.5	1,355.3	100.0
Oil	968.4	978.1	971.3	960.0	1,021.7	1,029.9	1,054.0	1,038.2	1,035.0	899.8	66.4
Gas	398.7	389.7	389.8	367.4	388.7	412.1	451.1	451.3	477.5	455.4	33.6
Gasoline	30.6	32.0	29.5	29.0	31.7	32.7	32.4	29.1	30.4	27.4	2.0
Diesel	134.6	136.1	145.1	140.5	153.6	163.1	161.7	154.5	155.4	144.8	10.7
Heating Oil	69.0	64.8	66.2	66.9	69.4	67.3	51.3	50.8	46.7	51.3	3.8
Aviation Jet	31.3	31.9	33.8	32.8	34.3	36.8	38.2	40.8	41.8	25.9	1.9
LPG	21.2	20.5	23.4	25.5	27.6	28.3	27.8	29.2	28.8	26.6	2.0
Exports	619.2	643.6	642.7	638.8	692.0	706.4	733.3	716.6	695.3	650.4	100.0
Oil	446.3	459.2	457.0	457.2	497.4	511.7	522.1	509.2	490.0	454.2	69.8
Gas	172.9	184.4	185.6	181.6	194.6	194.7	211.1	207.4	205.3	196.2	30.2
Gasoline	75.5	85.4	80.2	79.6	91.7	92.5	95.3	94.1	94.1	75.7	11.6
Diesel	93.9	103.5	103.6	101.5	109.4	114.8	117.6	105.4	103.3	98.0	15.1
Heating Oil	69.9	69.5	72.4	74.3	83.4	79.0	62.2	57.7	48.5	53.3	8.2
Aviation Jet	16.2	17.3	16.9	14.7	15.0	16.1	17.4	19.4	19.9	14.1	2.2
LPG	7.8	8.6	8.5	8.0	9.8	10.2	10.3	9.6	9.6	8.5	1.3
CO₂ Emissions (Million tons CO₂)	4,068.2	4,034.7	3,939.6	3,767.0	3,832.3	3,841.1	3,891.4	3,824.4	3,667.5	3,278.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	188.5	186.9	180.7	169.2	167.6	164.4	161.7	155.2	146.5	139.4	-
Final energy intensity (toe/million \$15ppp)	55.5	55.8	55.2	51.9	51.8	51.7	51.0	49.8	48.8	48.8	-
Total energy intensity (toe/million \$15ppp)	86.8	86.4	84.7	79.9	79.1	78.1	77.2	74.7	72.3	71.8	-

*Heat is included

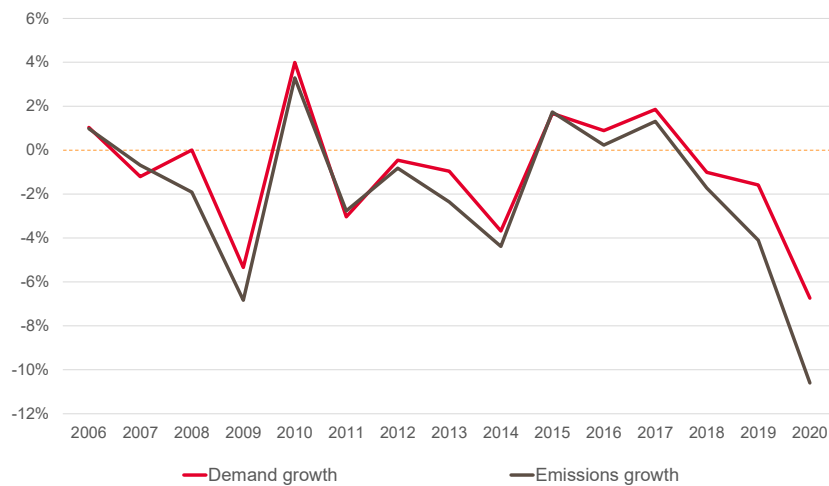
Primary energy demand mix



Electricity generation by source



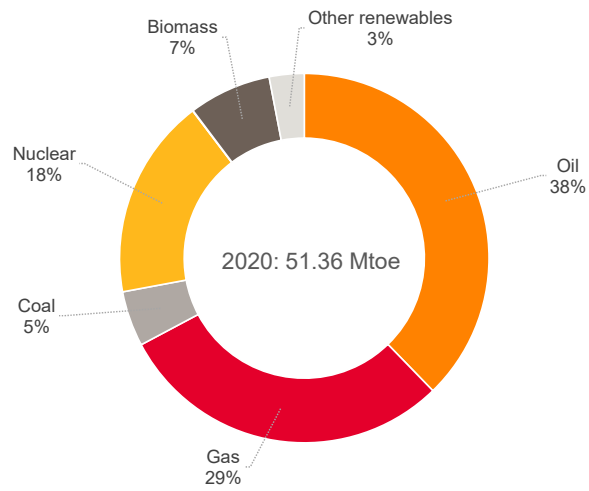
Primary energy demand and CO₂ emissions growth



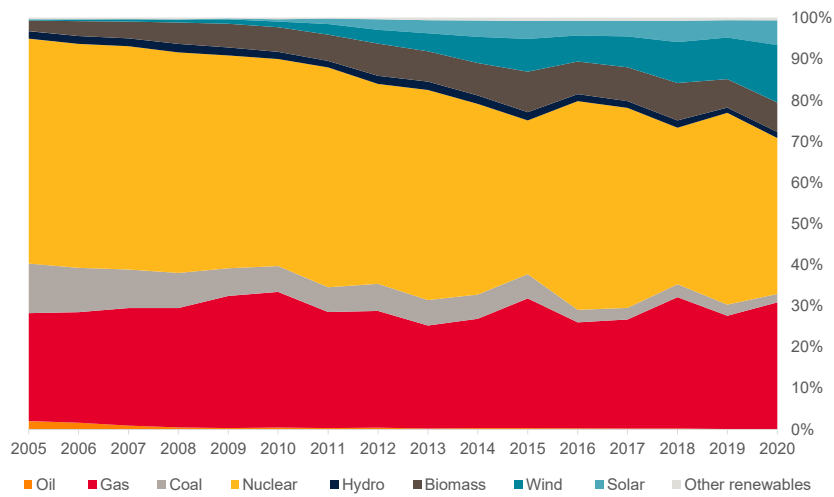
Belgium (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	56.0	53.5	55.8	52.6	52.5	55.6	55.3	53.2	55.3	51.4	100.0
Oil	21.3	20.3	21.3	22.0	22.0	21.4	21.2	21.2	20.8	19.3	37.6
Gas	14.4	14.4	14.5	12.6	13.9	14.2	14.5	14.9	15.1	15.1	29.4
Coal	3.5	3.2	3.6	3.4	3.4	3.2	3.1	3.1	3.1	2.5	4.8
Nuclear	12.6	10.5	11.1	8.8	6.8	11.3	11.0	7.5	11.4	9.0	17.5
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.5	3.6	3.6	3.4	3.6	3.8	3.8	3.8	3.7	3.7	7.2
Other renewables	0.3	0.4	0.5	0.6	0.7	0.7	0.8	1.0	1.2	1.6	3.0
Electricity balance of trade*	0.3	1.0	1.1	1.8	2.0	0.8	0.8	1.8	0.1	0.2	0.4
Total final consumption, by source	40.3	40.6	42.7	40.9	41.9	42.3	41.8	42.3	42.2	40.5	100.0
Oil	19.4	19.4	20.2	20.1	20.5	20.1	19.4	19.8	19.1	18.2	44.8
Gas	9.6	10.0	10.6	9.2	9.9	10.2	10.5	10.5	11.3	11.1	27.4
Coal	2.1	1.9	2.3	2.3	2.2	2.4	2.4	2.4	2.3	1.9	4.7
Electricity	6.9	7.0	7.1	7.0	7.0	7.1	7.1	7.1	7.0	6.9	17.0
Heat	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	1.1
Biomass	1.6	1.7	1.9	1.8	1.8	2.0	2.0	2.0	2.1	2.0	5.0
Electricity generation, by source	7.8	7.1	7.2	6.2	6.0	7.4	7.5	6.5	8.1	7.8	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	2.2	2.0	1.8	1.7	1.9	1.9	2.0	2.1	2.2	2.4	30.8
Coal	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	2.0
Nuclear	4.1	3.5	3.7	2.9	2.2	3.7	3.6	2.5	3.8	3.0	38.0
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Biomass	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	7.2
Wind	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.8	1.1	13.9
Solar	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.5	6.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Total final consumption, by sector	40.3	40.6	42.7	40.9	41.9	42.3	41.8	42.3	42.2	40.5	100.0
Industry	10.6	10.6	10.9	10.8	10.6	10.8	11.0	11.1	11.4	10.6	26.1
Transport	8.8	8.6	8.4	8.6	8.9	9.0	8.9	8.9	8.9	8.0	19.8
Residential/Commercial	12.3	12.8	13.9	11.6	12.8	12.9	12.7	12.6	12.9	12.6	31.1
Oil final consumption, by sector	19.4	19.4	20.2	20.1	20.5	20.1	19.4	19.8	19.1	18.2	100.0
Industry	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.6	3.2
Transport	8.3	8.1	7.9	8.0	8.5	8.5	8.3	8.3	8.2	7.3	40.0
Residential/Commercial	3.5	3.4	3.8	3.0	3.6	3.3	3.3	3.2	3.1	2.8	15.5
Natural gas final consumption, by sector	9.6	10.0	10.6	9.2	9.9	10.2	10.5	10.5	11.3	11.1	100.0
Industry	3.7	3.8	3.8	3.7	3.7	3.8	4.0	4.0	4.3	4.1	37.4
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	4.7	5.0	5.7	4.4	4.9	5.2	5.1	5.1	5.5	5.5	49.9
Refined products consumption	19.4	19.4	20.2	20.1	20.5	20.1	19.4	19.8	19.1	18.2	100.0
Gasoline	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.9	1.5	8.4
Diesel	10.8	10.6	10.8	10.0	10.9	10.5	10.3	10.0	9.7	8.7	48.1
Heating Oil	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1
LPG	1.5	1.6	1.7	2.0	2.0	1.7	1.7	2.5	2.7	2.6	14.2
Imports	72.1	69.8	72.2	72.3	75.1	73.7	78.3	81.3	81.8	72.7	100.0
Oil	54.2	54.6	56.9	58.8	59.8	58.8	63.5	65.1	63.1	54.2	74.5
Gas	17.8	15.3	15.3	13.5	15.3	14.9	14.9	16.1	18.7	18.5	25.5
Gasoline	1.4	1.0	0.7	0.9	1.3	1.5	0.9	1.6	1.3	0.7	1.0
Diesel	8.3	8.0	12.3	10.0	10.9	11.3	10.8	10.0	8.1	8.5	11.6
Heating Oil	4.7	4.2	5.0	3.5	3.7	3.9	4.8	5.9	5.5	4.4	6.0
Aviation Jet	1.9	2.2	1.6	1.0	0.8	0.5	1.5	1.7	1.5	1.0	1.3
LPG	2.0	1.8	1.9	2.0	2.1	1.8	1.8	2.3	2.3	2.4	3.3
Exports	27.8	28.1	28.3	30.6	30.9	30.2	34.7	33.9	35.4	29.9	100.0
Oil	24.5	27.0	27.5	29.8	29.5	29.6	34.0	32.8	32.0	26.5	88.7
Gas	3.4	1.1	0.8	0.7	1.4	0.6	0.6	1.1	3.4	3.4	11.3
Gasoline	4.4	4.7	4.1	4.4	5.4	5.4	4.9	4.5	4.7	3.0	10.1
Diesel	8.0	9.7	11.2	12.0	11.0	11.9	12.5	11.8	10.6	9.5	31.9
Heating Oil	4.1	3.8	4.6	4.3	4.5	4.0	6.0	5.5	4.2	3.2	10.6
Aviation Jet	1.6	2.7	1.7	1.4	0.9	0.8	1.8	1.6	2.2	1.1	3.8
LPG	1.0	0.8	0.8	0.7	0.8	0.9	0.9	0.7	0.8	0.8	2.7
CO₂ Emissions (Million tons CO₂)	105.6	99.2	100.2	93.5	99.5	96.3	95.8	97.8	98.7	90.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	212.6	198.2	199.4	183.1	191.1	182.1	177.7	178.7	177.8	174.2	-
Final energy intensity (toe/million \$15ppp)	65.3	65.2	67.8	62.0	63.5	63.4	61.8	61.2	61.1	61.4	-
Total energy intensity (toe/million \$15ppp)	112.7	106.9	111.0	103.1	100.7	105.1	102.5	97.3	99.7	98.7	-

*Heat is included

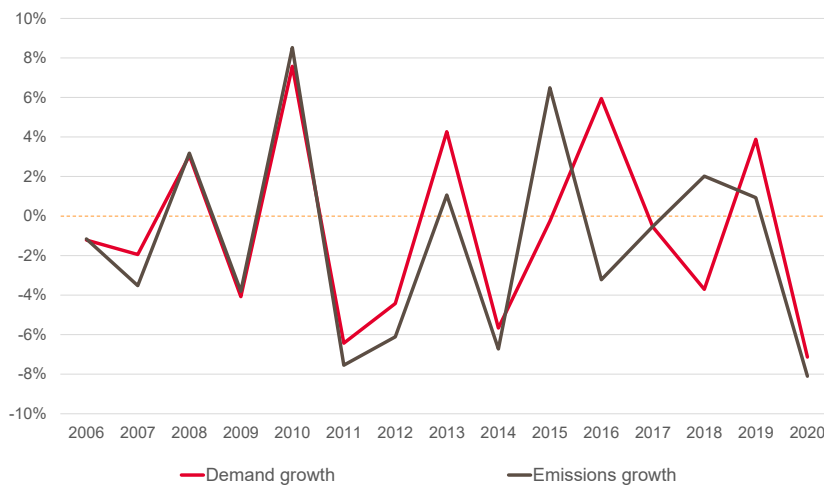
Primary energy demand mix



Electricity generation by source



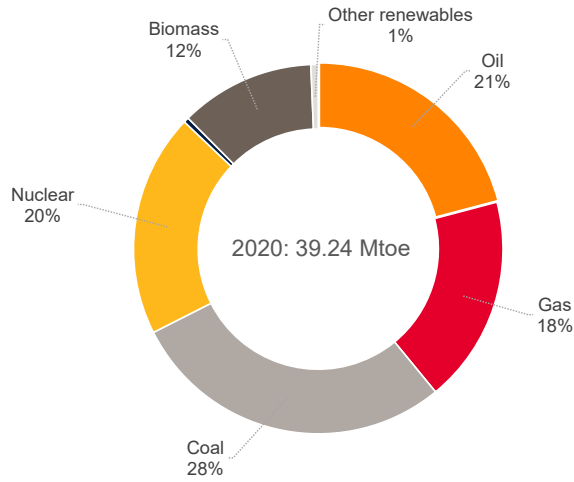
Primary energy demand and CO₂ emissions growth



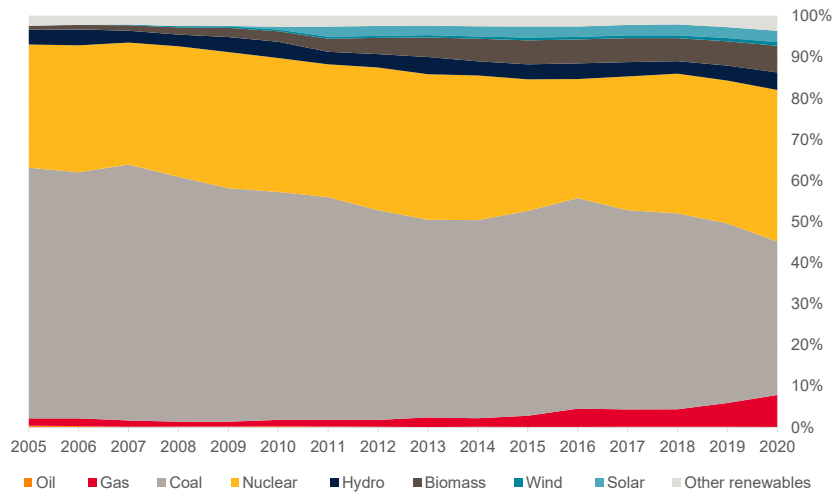
Czech Republic (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	43.5	43.2	43.2	41.9	42.0	41.5	43.3	43.3	42.7	39.2	100.0
Oil	8.7	8.6	8.3	8.8	8.6	8.0	9.3	9.4	9.5	8.4	21.3
Gas	6.8	6.9	6.9	6.2	6.5	7.0	7.2	6.8	7.2	7.3	18.5
Coal	18.4	17.4	17.1	16.0	16.4	16.5	15.8	15.7	14.3	11.4	29.1
Nuclear	7.4	7.9	8.0	7.9	7.0	6.3	7.4	7.8	7.9	7.8	20.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.5
Biomass	3.3	3.5	3.8	4.0	4.1	4.2	4.3	4.3	4.6	4.7	12.1
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.6
Electricity balance of trade*	-1.4	-1.5	-1.4	-1.4	-1.0	-0.9	-1.1	-1.2	-1.1	-0.8	-2.1
Total final consumption, by source	26.7	26.8	26.6	26.1	26.3	26.3	28.0	27.8	27.8	25.8	100.0
Oil	8.3	8.3	8.0	8.5	8.3	7.7	9.1	9.1	9.2	8.2	31.7
Gas	5.5	5.4	5.4	4.9	5.1	5.4	5.6	5.2	5.3	5.0	19.5
Coal	3.5	3.5	3.5	3.3	3.2	3.2	3.3	3.3	2.9	2.3	9.1
Electricity	4.6	4.6	4.6	4.6	4.7	4.8	4.9	5.0	5.0	4.8	18.8
Heat	2.3	2.3	2.3	2.0	2.0	2.1	2.2	2.1	2.0	2.0	7.8
Biomass	2.5	2.6	2.7	2.9	2.9	3.0	3.0	3.1	3.3	3.4	13.1
Electricity generation, by source	7.5	7.5	7.5	7.4	7.2	7.2	7.5	7.6	7.5	7.0	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	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	7.8
Coal	4.1	3.8	3.6	3.6	3.6	3.7	3.6	3.6	3.3	2.6	37.3
Nuclear	2.4	2.6	2.6	2.6	2.3	2.1	2.4	2.6	2.6	2.6	36.9
Hydro	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	4.2
Biomass	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	6.5
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.9
Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.8
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.6
Total final consumption, by sector	26.7	26.8	26.6	26.1	26.3	26.3	28.0	27.8	27.8	25.8	100.0
Industry	7.7	7.7	7.4	7.3	7.4	7.4	7.6	7.6	7.5	6.8	26.5
Transport	5.8	5.7	5.7	5.9	6.1	6.4	6.6	6.6	6.7	6.3	24.4
Residential/Commercial	10.0	10.2	10.3	9.5	9.7	10.1	10.3	10.1	10.0	9.7	37.5
Oil final consumption, by sector	8.3	8.3	8.0	8.5	8.3	7.7	9.1	9.1	9.2	8.2	100.0
Industry	0.3	0.3	0.2	0.3	0.3	0.1	0.1	0.2	0.2	0.1	1.8
Transport	5.4	5.3	5.2	5.4	5.6	5.9	6.0	6.1	6.1	5.7	69.5
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Natural gas final consumption, by sector	5.5	5.4	5.4	4.9	5.1	5.4	5.6	5.2	5.3	5.0	100.0
Industry	2.0	2.0	2.1	1.9	2.0	2.0	2.1	2.0	2.0	1.9	37.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	2.0
Residential/Commercial	3.3	3.2	3.2	2.8	2.9	3.2	3.3	3.0	3.0	2.8	56.5
Refined products consumption	8.3	8.3	8.0	8.5	8.3	7.7	9.1	9.1	9.2	8.2	100.0
Gasoline	1.8	1.7	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.4	17.6
Diesel	3.9	3.9	4.0	4.1	4.4	4.6	4.7	4.8	4.8	4.5	55.2
Heating Oil	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.3	0.3	0.4	0.3	0.3	0.5	0.5	0.5	0.4	4.9
Imports	17.9	16.3	17.0	16.8	17.3	17.0	19.1	18.6	19.7	16.7	100.0
Oil	10.2	10.2	10.0	10.9	11.2	10.3	11.8	12.0	11.8	10.5	62.6
Gas	7.6	6.1	7.0	6.0	6.2	6.7	7.3	6.6	7.9	6.3	37.4
Gasoline	0.6	0.5	0.6	0.5	0.5	0.8	0.6	0.7	0.6	0.6	3.5
Diesel	1.6	1.5	1.7	1.8	2.2	2.8	2.1	2.3	2.2	2.5	15.1
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	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.3	0.3	0.1	0.6
LPG	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	1.2
Exports	1.7	1.7	1.8	2.0	2.4	2.2	2.4	2.2	2.2	1.8	100.0
Oil	1.6	1.7	1.8	2.0	2.4	2.2	2.4	2.2	2.2	1.8	100.0
Gas	0.1	0.0	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	0.5	0.6	0.4	0.6	0.6	0.6	0.4	23.3
Diesel	0.6	0.7	0.7	0.9	1.1	0.8	0.9	0.8	0.8	0.7	40.7
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	2.8
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	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	7.6
CO₂ Emissions (Million tons CO₂)	110.1	106.7	102.6	100.0	100.9	102.3	103.8	102.6	98.0	85.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	330.9	323.4	312.5	296.4	284.0	281.1	273.4	262.4	244.9	226.2	-
Final energy intensity (toe/million \$15ppp)	72.3	73.0	72.8	68.9	67.2	67.3	66.1	63.7	62.1	62.1	-
Total energy intensity (toe/million \$15ppp)	130.7	130.9	131.5	124.3	118.2	113.9	114.0	110.7	106.8	104.0	-

*Heat is included

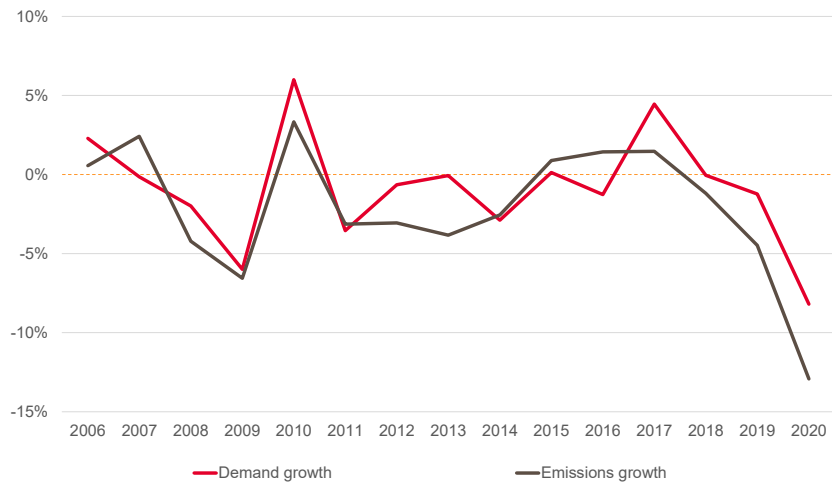
Primary energy demand mix



Electricity generation by source



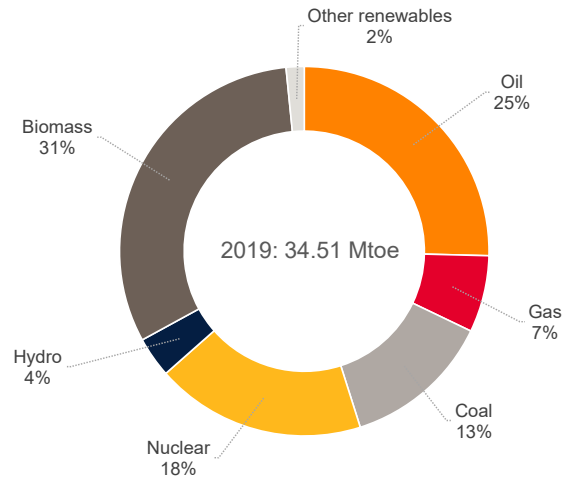
Primary energy demand and CO₂ emissions growth



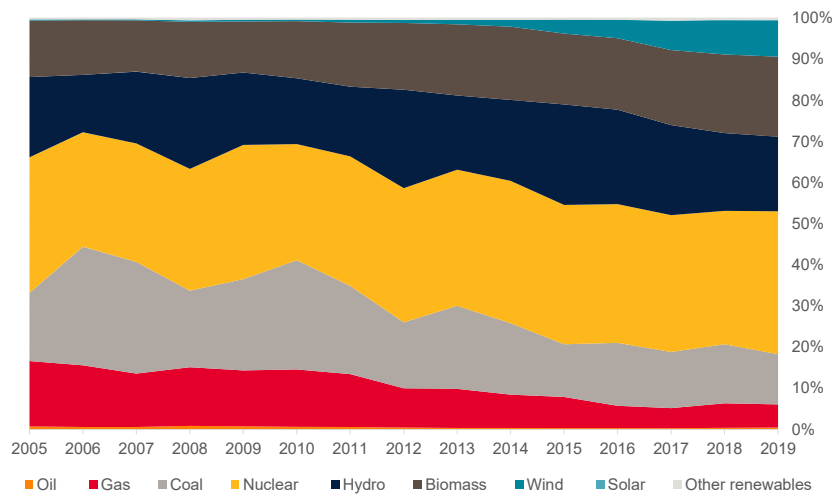
Finland (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	35.4	34.2	33.7	34.3	32.6	34.1	33.7	34.2	34.5	n.d.	n.d.
Oil	9.4	8.8	7.9	8.9	8.0	8.7	8.3	8.2	9.0	n.d.	n.d.
Gas	3.4	3.0	2.9	2.5	2.2	2.1	1.9	2.2	2.1	n.d.	n.d.
Coal	6.0	4.6	5.1	4.5	4.1	4.5	4.1	4.2	3.4	n.d.	n.d.
Nuclear	6.0	6.0	6.2	6.1	6.1	6.0	5.9	5.9	6.2	n.d.	n.d.
Hydro	1.1	1.4	1.1	1.2	1.4	1.4	1.3	1.1	1.1	n.d.	n.d.
Biomass	8.2	8.7	8.9	9.3	9.1	9.3	9.8	10.1	10.3	n.d.	n.d.
Other renewables	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	n.d.	n.d.
Electricity balance of trade*	1.3	1.6	1.5	1.7	1.5	1.8	1.9	1.9	1.9	n.d.	n.d.
Total final consumption, by source	25.3	25.5	25.4	25.3	24.8	25.9	25.9	26.4	25.9	n.d.	n.d.
Oil	7.7	7.6	7.9	7.5	7.2	7.8	7.4	7.5	7.2	n.d.	n.d.
Gas	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	n.d.	n.d.
Coal	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	n.d.	n.d.
Electricity	6.9	6.9	6.9	6.8	6.8	7.0	7.0	7.1	7.0	n.d.	n.d.
Heat	4.1	4.3	4.1	4.0	3.8	4.1	4.0	4.0	3.9	n.d.	n.d.
Biomass	4.8	5.0	5.0	5.5	5.4	5.5	5.9	6.1	6.2	n.d.	n.d.
Electricity generation, by source	6.3	6.1	6.1	5.9	5.9	5.9	5.8	6.0	5.9	n.d.	n.d.
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gas	0.8	0.6	0.6	0.5	0.4	0.3	0.3	0.4	0.3	n.d.	n.d.
Coal	1.4	1.0	1.2	1.0	0.8	0.9	0.8	0.9	0.7	n.d.	n.d.
Nuclear	2.0	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.1	n.d.	n.d.
Hydro	1.1	1.4	1.1	1.2	1.4	1.4	1.3	1.1	1.1	n.d.	n.d.
Biomass	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.2	1.1	n.d.	n.d.
Wind	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	n.d.	n.d.
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Total final consumption, by sector	25.3	25.5	25.4	25.3	24.8	25.9	25.9	26.4	25.9	n.d.	n.d.
Industry	10.9	10.7	10.6	10.6	10.5	10.9	11.1	11.6	11.4	n.d.	n.d.
Transport	4.5	4.4	4.3	4.2	4.2	4.3	4.3	4.3	4.3	n.d.	n.d.
Residential/Commercial	7.9	8.4	8.0	7.9	7.6	8.2	8.1	8.1	8.0	0.0	0.0
Oil final consumption, by sector	7.7	7.6	7.9	7.5	7.2	7.8	7.4	7.5	7.2	n.d.	n.d.
Industry	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.1	n.d.	n.d.
Transport	4.2	4.1	4.0	3.6	3.6	4.0	3.8	3.9	3.9	n.d.	n.d.
Residential/Commercial	0.7	0.7	0.6	0.6	0.5	0.6	0.6	0.5	0.5	n.d.	n.d.
Natural gas final consumption, by sector	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	n.d.	n.d.
Industry	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	n.d.	n.d.
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	n.d.
Refined products consumption	7.7	7.6	7.9	7.5	7.2	7.8	7.4	7.5	7.2	n.d.	n.d.
Gasoline	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	n.d.	n.d.
Diesel	4.0	4.1	3.9	3.6	3.6	4.0	3.8	3.8	3.8	n.d.	n.d.
Heating Oil	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	n.d.	n.d.
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	n.d.
LPG	0.5	0.5	1.1	1.2	1.1	1.1	1.0	1.2	0.8	n.d.	n.d.
Imports	20.8	19.7	21.3	20.5	18.7	20.5	19.9	20.1	20.6	n.d.	n.d.
Oil	17.4	16.7	18.5	18.0	16.5	18.4	17.9	18.0	18.5	n.d.	n.d.
Gas	3.4	3.0	2.9	2.5	2.2	2.1	1.9	2.2	2.1	n.d.	n.d.
Gasoline	0.0	0.1	0.6	0.5	0.5	0.6	0.6	0.6	0.6	n.d.	n.d.
Diesel	2.5	2.4	3.1	2.2	1.8	2.0	1.8	1.6	1.6	n.d.	n.d.
Heating Oil	0.7	0.8	0.8	1.2	1.1	1.2	0.9	0.4	0.6	n.d.	n.d.
Aviation Jet	0.1	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.3	n.d.	n.d.
LPG	0.3	0.3	0.8	0.9	0.9	0.8	0.8	0.9	0.8	n.d.	n.d.
Exports	7.3	7.7	9.2	8.7	7.0	9.2	9.2	9.0	9.0	n.d.	n.d.
Oil	7.3	7.7	9.2	8.7	7.0	9.2	9.2	9.0	9.0	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	2.6	2.6	3.3	3.3	2.5	3.1	3.3	3.2	3.5	n.d.	n.d.
Diesel	2.9	3.2	4.1	3.7	3.0	3.9	3.8	3.6	3.8	n.d.	n.d.
Heating Oil	0.9	1.0	1.0	0.8	0.7	1.3	1.1	1.1	0.5	n.d.	n.d.
Aviation Jet	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
CO₂ Emissions (Million tons CO₂)	56.3	50.8	51.8	47.7	44.4	47.7	45.0	46.4	42.5	n.d.	n.d.
CO₂ Intensity (tCO₂/million \$15ppp)	236.4	216.3	222.7	205.7	190.4	199.4	182.7	185.0	167.6	n.d.	n.d.
Final energy intensity (toe/million \$15ppp)	101.4	104.1	102.6	102.5	100.2	101.9	99.1	99.3	97.0	n.d.	n.d.
Total energy intensity (toe/million \$15ppp)	148.7	145.5	144.8	148.1	139.9	142.4	136.5	136.3	136.2	n.d.	n.d.

*Heat is included

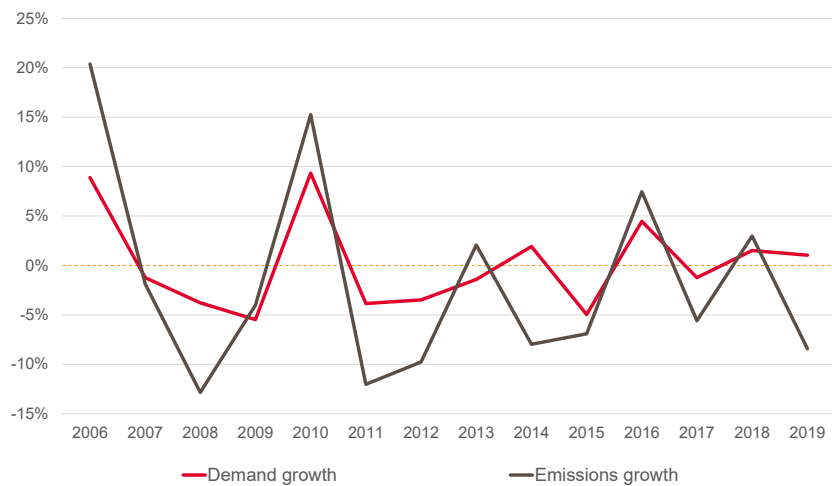
Primary energy demand mix



Electricity generation by source



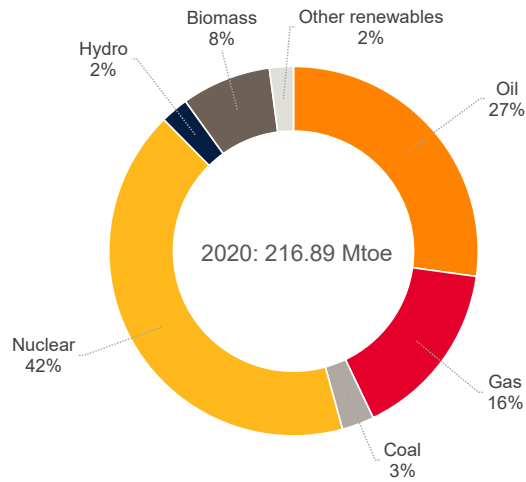
Primary energy demand and CO₂ emissions growth



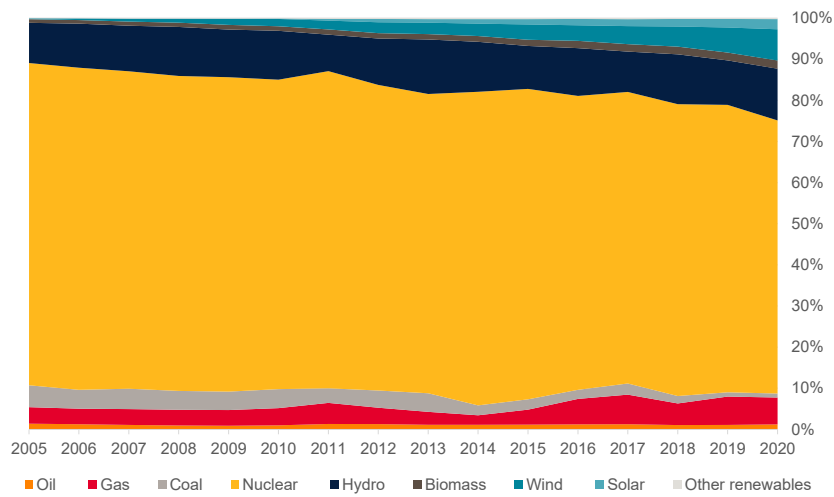
France (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	258.0	257.8	258.7	248.8	252.6	247.9	247.5	246.3	242.8	216.9	100.0
Oil	79.7	77.3	75.4	74.8	75.5	73.0	73.5	71.0	71.3	59.9	27.6
Gas	37.0	38.2	38.8	32.6	35.0	38.3	38.5	36.7	37.4	34.6	15.9
Coal	11.3	12.5	13.2	9.8	9.3	9.1	9.9	9.0	7.2	6.2	2.9
Nuclear	115.3	110.9	110.4	113.7	114.0	105.1	103.8	107.6	104.0	92.2	42.5
Hydro	3.9	5.1	6.2	5.5	4.8	5.2	4.3	5.6	4.9	5.4	2.5
Biomass	14.1	15.6	16.6	15.6	16.5	17.6	17.5	17.7	18.3	17.3	8.0
Other renewables	1.3	1.7	1.8	2.0	2.5	2.6	2.9	3.4	4.0	4.6	2.1
Electricity balance of trade*	-4.5	-3.4	-3.7	-5.3	-5.0	-3.1	-2.9	-4.8	-4.4	-3.2	-1.5
Total final consumption, by source	154.9	159.3	161.7	152.2	154.4	156.2	156.3	152.5	150.9	136.2	100.0
Oil	71.3	70.7	70.2	69.1	69.1	67.7	68.4	66.0	65.7	56.2	41.3
Gas	28.6	30.6	32.1	27.2	28.2	29.6	29.1	28.8	28.1	26.1	19.2
Coal	4.6	4.5	4.6	4.7	4.4	4.3	4.8	3.7	3.0	2.4	1.8
Electricity	36.7	38.4	39.0	36.8	37.6	38.3	38.0	37.8	37.4	35.5	26.0
Heat	3.1	3.2	3.3	3.0	3.3	3.7	3.8	3.9	4.1	4.2	3.1
Biomass	10.5	11.8	12.5	11.3	11.8	12.5	12.2	12.3	12.6	11.8	8.7
Electricity generation, by source	49.3	49.2	50.1	49.2	49.8	48.5	48.3	50.0	49.1	45.8	100.0
Oil	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6	1.2
Gas	2.5	2.0	1.6	1.1	1.8	3.0	3.5	2.6	3.4	3.0	6.5
Coal	1.7	2.1	2.3	1.2	1.3	1.1	1.3	0.9	0.5	0.4	1.0
Nuclear	38.0	36.6	36.4	37.5	37.6	34.7	34.3	35.5	34.3	30.4	66.4
Hydro	4.4	5.6	6.6	6.0	5.2	5.6	4.7	6.1	5.3	5.8	12.6
Biomass	0.6	0.6	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.9	2.0
Wind	1.1	1.3	1.4	1.5	1.8	1.8	2.1	2.5	3.0	3.5	7.6
Solar	0.2	0.4	0.4	0.5	0.7	0.7	0.8	0.9	1.0	1.1	2.5
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	154.9	159.3	161.7	152.2	154.4	156.2	156.3	152.5	150.9	136.2	100.0
Industry	31.0	30.7	31.0	30.1	29.7	30.4	30.0	29.4	28.2	25.8	18.9
Transport	45.9	45.7	45.3	45.6	46.0	46.0	46.4	45.5	45.6	39.1	28.7
Residential/Commercial	59.1	64.4	67.0	57.5	60.2	61.9	61.4	59.8	59.3	55.7	40.9
Oil final consumption, by sector	71.3	70.7	70.2	69.1	69.1	67.7	68.4	66.0	65.7	56.2	100.0
Industry	3.3	3.1	3.0	2.9	2.9	2.8	2.6	2.5	2.5	2.1	3.8
Transport	42.6	42.0	41.6	41.7	42.0	41.9	42.1	41.2	41.2	34.9	62.1
Residential/Commercial	9.0	9.5	9.6	8.1	8.3	7.7	7.8	7.3	6.9	6.1	10.8
Natural gas final consumption, by sector	28.6	30.6	32.1	27.2	28.2	29.6	29.1	28.8	28.1	26.1	100.0
Industry	9.8	9.6	10.1	9.6	9.3	9.6	9.2	9.6	9.1	8.4	32.3
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Residential/Commercial	17.5	19.6	20.6	16.2	17.4	18.4	18.4	17.6	17.4	16.2	62.0
Refined products consumption	71.3	70.7	70.2	69.1	69.1	67.7	68.4	66.0	65.7	56.2	100.0
Gasoline	7.6	7.2	7.0	7.0	7.1	7.2	7.5	7.7	8.2	7.0	12.5
Diesel	45.6	45.9	46.0	44.6	45.3	44.5	44.4	42.6	41.5	36.1	64.2
Heating Oil	1.0	0.9	0.7	0.6	0.6	0.5	0.3	0.3	0.2	0.2	0.4
Aviation Jet	2.1	2.0	2.0	1.9	1.9	1.8	1.9	2.0	2.1	1.0	1.8
LPG	3.9	3.9	4.2	4.5	4.4	4.3	4.2	4.2	4.2	3.9	6.9
Imports	151.9	145.9	144.1	140.5	142.5	140.4	144.0	141.0	143.8	119.9	100.0
Oil	107.8	103.5	101.6	100.3	103.2	99.2	100.8	97.2	95.1	78.8	65.8
Gas	44.0	42.4	42.5	40.2	39.4	41.2	43.2	43.8	48.7	41.1	34.2
Gasoline	0.5	0.4	0.4	0.5	0.7	1.3	1.5	1.4	1.6	1.6	1.3
Diesel	20.7	24.0	24.5	24.0	25.2	22.8	22.3	22.8	24.7	25.4	21.2
Heating Oil	8.2	6.3	5.4	5.4	3.6	4.0	3.4	3.3	2.8	2.1	1.8
Aviation Jet	3.7	4.2	4.4	4.5	4.8	4.7	4.5	5.9	6.2	4.2	3.5
LPG	2.9	3.2	3.6	4.1	3.9	3.8	3.6	3.5	3.7	3.2	2.7
Exports	27.4	25.4	23.7	25.7	26.2	24.2	26.1	25.6	27.2	21.3	100.0
Oil	21.6	20.0	19.2	19.3	21.4	20.9	20.6	20.3	17.5	13.2	61.7
Gas	5.8	5.4	4.5	6.4	4.9	3.3	5.4	5.3	9.7	8.2	38.3
Gasoline	4.9	4.5	3.7	4.0	4.3	4.8	4.6	3.3	2.8	2.3	10.9
Diesel	2.5	2.9	2.0	1.8	2.8	2.1	2.6	2.2	2.5	1.4	6.6
Heating Oil	6.2	5.6	5.4	5.7	6.3	5.6	4.6	4.7	3.7	2.5	11.6
Aviation Jet	0.7	0.8	1.0	1.1	1.2	1.0	1.2	2.0	1.8	1.6	7.5
LPG	1.3	1.4	1.4	1.2	1.4	1.3	1.3	1.2	1.0	1.0	4.7
CO₂ Emissions (Million tons CO₂)	339.5	344.8	345.1	313.9	319.9	321.0	325.4	320.3	311.5	272.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	128.6	130.2	129.5	116.7	117.7	116.8	115.8	112.0	107.3	102.1	-
Final energy intensity (toe/million \$15ppp)	53.3	54.8	55.5	51.2	51.6	51.9	50.6	48.6	47.3	46.7	-
Total energy intensity (toe/million \$15ppp)	97.7	97.3	97.1	92.5	92.9	90.2	88.0	86.1	83.6	81.4	-

*Heat is included

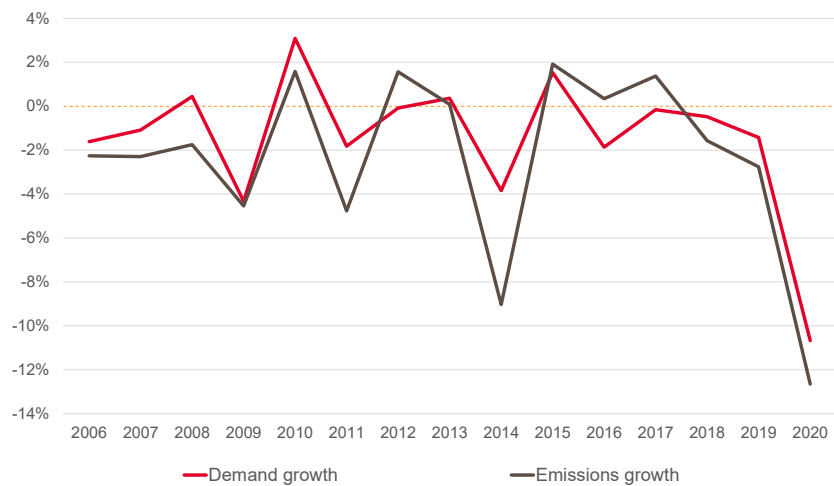
Primary energy demand mix



Electricity generation by source



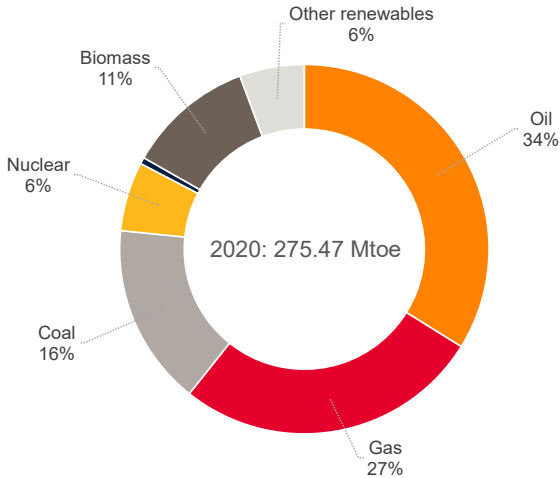
Primary energy demand and CO₂ emissions growth



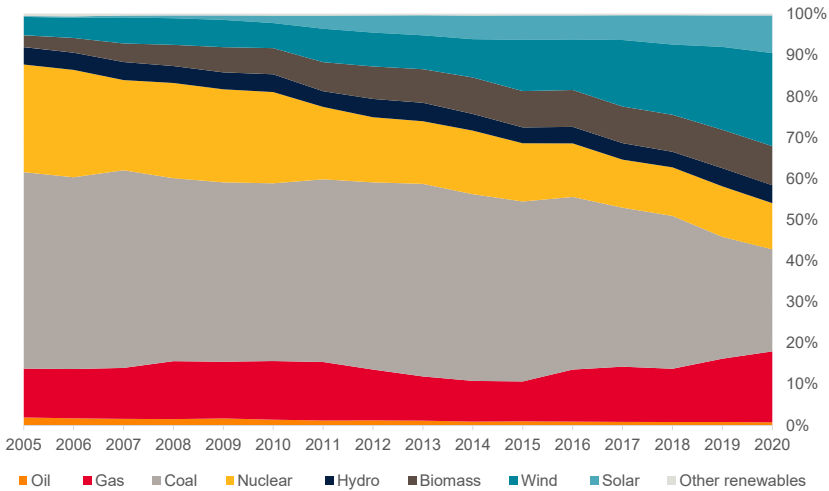
Germany (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	312.6	314.9	321.6	307.4	309.0	310.2	311.2	302.2	294.1	275.5	100.0
Oil	101.2	100.8	103.2	101.0	101.2	101.4	103.0	98.0	100.0	93.4	33.9
Gas	69.6	69.8	73.1	63.4	65.1	70.3	75.3	73.5	75.9	74.1	26.9
Coal	78.1	80.2	81.6	79.6	79.4	77.2	71.4	68.8	53.3	43.9	15.9
Nuclear	28.1	25.9	25.4	25.3	23.9	22.1	19.9	19.8	19.6	16.8	6.1
Hydro	1.5	1.9	2.0	1.7	1.6	1.8	1.7	1.5	1.8	1.6	0.6
Biomass	27.6	30.6	31.1	30.3	30.5	30.5	30.8	30.1	30.5	30.6	11.1
Other renewables	6.0	6.7	7.2	8.1	10.3	10.1	12.5	13.4	14.6	15.7	5.7
Electricity balance of trade*	0.5	-1.0	-1.9	-1.9	-3.1	-3.3	-3.5	-3.0	-1.6	-0.4	-0.2
Total final consumption, by source	226.1	229.5	234.8	223.9	227.2	230.5	233.2	229.0	230.4	218.8	100.0
Oil	91.9	91.8	94.1	92.1	92.1	92.2	94.1	89.5	92.5	85.4	39.0
Gas	50.2	52.0	55.0	49.7	51.4	54.8	55.2	56.8	56.6	55.6	25.4
Coal	13.2	13.3	13.2	13.2	14.1	13.7	13.7	13.3	12.5	11.0	5.0
Electricity	45.1	45.1	44.9	44.0	44.3	44.5	44.6	44.0	43.0	41.0	18.8
Heat	10.6	10.9	11.0	9.9	10.3	10.5	10.6	10.4	10.2	10.0	4.6
Biomass	15.0	16.3	16.6	15.0	15.0	14.8	15.1	15.0	15.5	15.8	7.2
Electricity generation, by source	52.7	54.0	54.9	54.0	55.8	55.9	56.2	55.3	52.6	49.2	100.0
Oil	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.7
Gas	7.5	6.7	5.9	5.4	5.4	7.1	7.5	7.2	8.1	8.5	17.2
Coal	23.4	24.6	25.7	24.5	24.4	23.5	21.7	20.6	15.6	12.2	24.8
Nuclear	9.3	8.6	8.4	8.4	7.9	7.3	6.6	6.5	6.5	5.5	11.2
Hydro	2.0	2.4	2.5	2.2	2.1	2.2	2.2	2.1	2.3	2.1	4.3
Biomass	3.7	4.3	4.5	4.8	4.9	5.0	5.0	5.0	4.9	4.7	9.5
Wind	4.3	4.4	4.5	5.0	6.9	6.9	9.1	9.5	10.6	11.1	22.6
Solar	1.7	2.3	2.7	3.1	3.3	3.3	3.4	3.9	4.0	4.5	9.2
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Total final consumption, by sector	226.1	229.5	234.8	223.9	227.2	230.5	233.2	229.0	230.4	218.8	100.0
Industry	62.8	62.8	62.5	62.2	62.6	63.1	63.8	64.3	62.5	58.2	26.6
Transport	53.8	53.4	54.4	55.2	55.9	57.0	57.8	58.9	60.9	58.2	26.6
Residential/Commercial	85.4	90.0	94.6	82.8	85.8	87.3	87.1	83.2	84.1	82.4	37.7
Oil final consumption, by sector	91.9	91.8	94.1	92.1	92.1	92.2	94.1	89.5	92.5	85.4	100.0
Industry	3.5	3.2	3.1	2.8	3.0	2.4	2.2	3.6	3.7	3.0	3.5
Transport	49.7	49.1	50.4	51.1	52.0	53.1	53.9	54.9	57.0	53.4	62.6
Residential/Commercial	19.1	20.1	21.7	19.0	18.5	18.3	18.1	13.4	14.0	13.5	15.8
Natural gas final consumption, by sector	50.2	52.0	55.0	49.7	51.4	54.8	55.2	56.8	56.6	55.6	100.0
Industry	19.5	19.6	19.6	19.2	19.2	20.0	20.9	20.3	19.9	19.1	34.4
Transport	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	27.8	29.9	32.4	27.4	29.3	31.7	31.3	33.1	33.3	33.3	60.0
Refined products consumption	91.9	91.8	94.1	92.1	92.1	92.2	94.1	89.5	92.5	85.4	100.0
Gasoline	19.3	18.1	18.1	18.2	17.9	17.9	18.2	20.4	20.7	18.8	22.0
Diesel	48.8	50.3	52.9	50.5	51.3	52.0	52.8	49.7	52.2	50.1	58.7
Heating Oil	3.0	3.0	2.5	2.5	2.7	1.5	1.5	1.4	1.4	0.8	0.9
Aviation Jet	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.5	0.6
LPG	3.0	3.1	3.2	2.7	2.8	2.9	3.8	3.5	3.8	3.5	4.1
Imports	200.4	201.7	212.3	203.7	216.6	225.6	238.1	233.4	241.8	229.2	100.0
Oil	125.3	127.6	130.3	128.4	130.7	132.0	133.9	127.6	130.0	119.5	52.1
Gas	75.1	74.1	81.9	75.3	85.9	93.5	104.2	105.9	111.8	109.7	47.9
Gasoline	2.0	1.6	1.9	1.9	2.0	1.6	2.3	2.5	3.3	1.9	0.8
Diesel	13.8	13.8	18.0	17.1	18.7	19.5	19.7	18.8	20.1	17.7	7.7
Heating Oil	2.7	2.3	2.4	2.4	1.8	2.4	2.2	2.0	1.6	1.3	0.6
Aviation Jet	4.3	5.0	5.4	4.9	5.1	5.1	6.1	6.7	7.0	3.1	1.4
LPG	1.0	1.2	1.1	0.7	0.8	0.9	1.0	1.2	1.3	1.4	0.6
Exports	33.1	33.1	38.5	39.8	49.7	51.2	60.5	62.2	65.4	64.5	100.0
Oil	18.3	18.8	20.1	21.1	22.5	22.8	23.4	22.5	22.1	22.2	34.5
Gas	14.7	14.3	18.4	18.7	27.2	28.4	37.1	39.7	43.2	42.3	65.5
Gasoline	5.0	5.2	5.3	5.0	4.6	5.3	6.0	5.3	5.1	5.6	8.7
Diesel	6.5	6.3	7.0	7.7	8.4	9.5	9.0	8.2	7.4	8.1	12.6
Heating Oil	1.9	2.0	2.6	3.0	2.9	2.1	1.8	2.5	2.6	2.7	4.1
Aviation Jet	0.8	1.2	1.2	0.9	1.2	0.9	1.3	1.4	1.4	0.7	1.1
LPG	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.5
CO₂ Emissions (Million tons CO₂)	751.9	768.3	788.5	749.7	754.5	761.5	746.0	726.0	678.1	617.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	153.0	156.5	160.0	150.7	148.3	142.7	134.7	127.7	114.6	107.3	-
Final energy intensity (toe/million \$15ppp)	54.9	55.7	56.9	52.7	52.9	52.5	51.5	50.7	50.8	51.3	-
Total energy intensity (toe/million \$15ppp)	84.2	84.4	85.9	80.3	79.3	77.9	76.3	73.0	70.6	69.8	-

*Heat is included

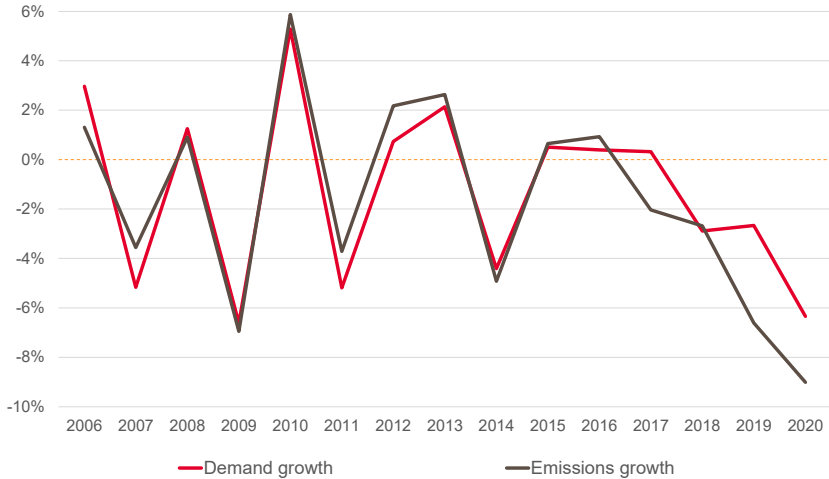
Primary energy demand mix



Electricity generation by source



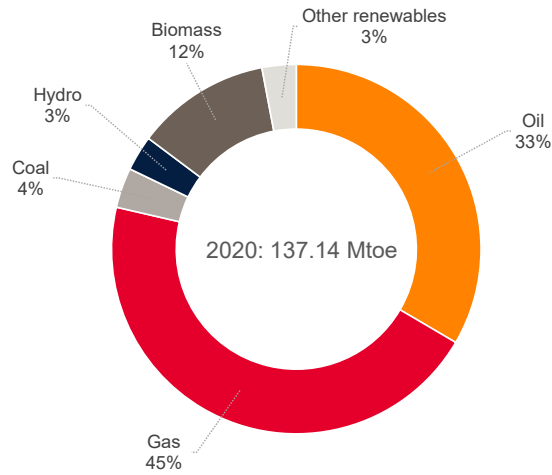
Primary energy demand and CO₂ emissions growth



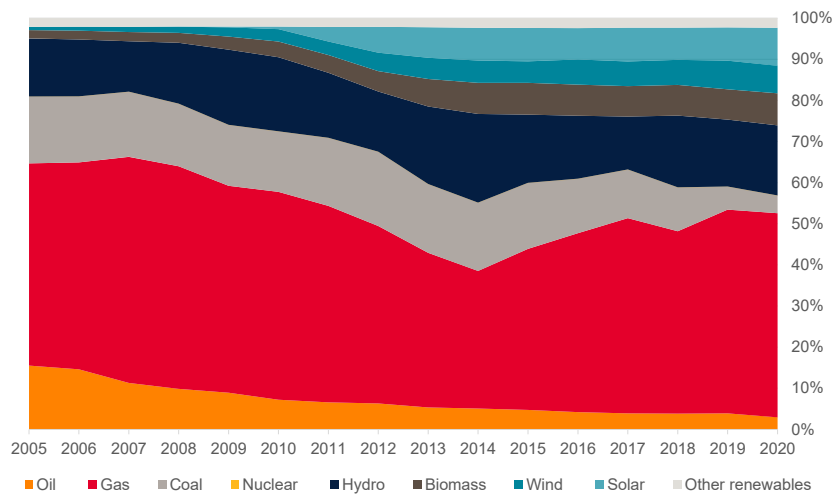
Italy (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	168.2	161.5	155.6	147.0	152.8	151.2	153.6	150.9	149.3	137.1	100.0
Oil	62.7	55.6	53.3	51.6	53.6	51.5	52.0	51.0	50.8	43.0	31.4
Gas	63.8	61.4	57.4	50.7	55.3	58.1	61.5	59.5	60.9	58.2	42.4
Coal	15.3	15.7	13.5	13.1	12.3	11.0	9.3	8.6	6.1	4.5	3.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.9	3.6	4.5	5.0	3.9	3.6	3.1	4.2	3.9	4.0	2.9
Biomass	11.3	13.5	14.6	14.0	14.6	14.4	14.9	14.5	14.8	15.2	11.1
Other renewables	1.8	2.8	3.1	3.2	3.2	3.4	3.6	3.5	3.8	3.8	2.8
Electricity balance of trade*	9.3	9.0	9.0	9.4	9.8	9.2	9.1	9.6	9.0	8.5	6.2
Total final consumption, by source	129.1	126.5	121.7	117.4	119.6	118.9	119.6	119.6	118.2	107.5	100.0
Oil	53.7	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.0	37.3	34.7
Gas	35.8	35.7	35.5	31.2	33.4	33.7	34.4	34.0	33.3	32.0	29.8
Coal	3.7	3.5	2.6	2.7	2.0	2.2	1.6	1.7	1.8	1.3	1.2
Electricity	25.9	25.5	24.7	24.2	24.7	24.6	25.1	25.2	25.0	23.6	22.0
Heat	3.5	3.7	4.0	4.0	4.2	4.3	4.5	4.6	4.5	4.5	4.2
Biomass	6.5	8.6	8.5	7.4	8.3	8.0	8.6	8.3	8.6	8.8	8.2
Electricity generation, by source	26.0	25.7	24.9	24.1	24.3	24.9	25.4	24.9	25.1	24.1	100.0
Oil	1.7	1.6	1.3	1.2	1.2	1.0	1.0	0.9	1.0	0.7	2.9
Gas	12.4	11.1	9.4	8.1	9.5	10.8	12.1	11.1	12.4	12.0	49.6
Coal	4.3	4.7	4.2	4.0	3.9	3.3	3.0	2.7	1.4	1.0	4.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.1	3.8	4.7	5.2	4.0	3.8	3.3	4.3	4.1	4.1	17.0
Biomass	1.1	1.3	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	7.8
Wind	0.8	1.2	1.3	1.3	1.3	1.5	1.5	1.5	1.7	1.6	6.7
Solar	0.9	1.6	1.9	1.9	2.0	1.9	2.1	1.9	2.0	2.2	9.3
Other renewables	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.3
Total final consumption, by sector	129.1	126.5	121.7	117.4	119.6	118.9	119.6	119.6	118.2	107.5	100.0
Industry	30.2	28.7	26.6	26.0	26.0	26.2	25.7	25.0	24.8	22.6	21.0
Transport	38.6	36.8	35.9	37.2	36.3	35.9	34.5	35.6	35.3	29.1	27.0
Residential/Commercial	48.1	50.3	50.1	44.2	47.9	47.6	48.5	48.8	48.6	47.4	44.1
Oil final consumption, by sector	53.7	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.0	37.3	100.0
Industry	3.4	2.8	2.4	1.9	2.8	2.5	1.8	1.9	1.9	1.6	4.2
Transport	35.6	33.8	32.9	34.4	33.3	33.0	31.7	32.5	32.4	26.1	69.9
Residential/Commercial	3.8	3.4	3.3	2.8	2.9	2.8	2.6	2.7	2.7	2.6	6.9
Natural gas final consumption, by sector	35.8	35.7	35.5	31.2	33.4	33.7	34.4	34.0	33.3	32.0	100.0
Industry	9.3	9.0	8.7	8.5	8.3	8.4	8.9	8.6	8.5	7.8	24.4
Transport	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.9	1.0	0.9	2.8
Residential/Commercial	25.2	25.4	25.3	21.2	23.5	23.6	23.9	23.7	23.0	22.6	70.6
Refined products consumption	53.7	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.0	37.3	100.0
Gasoline	10.0	9.3	8.7	8.8	8.2	7.8	7.6	7.8	7.8	6.1	16.5
Diesel	28.4	26.7	25.8	26.8	26.2	26.1	24.6	25.6	25.2	21.6	57.8
Heating Oil	1.4	1.2	1.2	1.2	1.5	1.7	1.3	1.2	1.3	1.0	2.8
Aviation Jet	0.8	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.0	0.4	1.0
LPG	3.5	3.6	3.6	3.5	3.6	3.6	3.7	3.5	3.6	3.2	8.6
Imports	147.4	140.9	128.7	116.9	130.9	135.2	142.0	137.1	139.7	120.1	100.0
Oil	89.8	85.4	78.0	71.3	80.7	81.8	85.0	81.5	81.6	65.9	54.9
Gas	57.6	55.5	50.8	45.7	50.2	53.5	57.0	55.6	58.1	54.2	45.1
Gasoline	0.1	0.0	0.4	0.4	0.5	0.4	0.1	0.4	0.4	0.4	0.3
Diesel	2.6	2.1	3.1	3.2	3.1	4.5	5.1	5.4	5.3	4.6	3.9
Heating Oil	0.8	0.6	0.5	0.3	0.3	0.8	0.8	1.6	1.0	1.2	1.0
Aviation Jet	1.3	1.1	1.5	1.6	1.9	2.1	2.3	2.4	2.6	0.8	0.7
LPG	2.2	2.3	2.6	2.4	2.5	2.6	2.6	2.5	2.7	2.3	1.9
Exports	27.6	30.5	25.1	21.4	28.5	30.1	32.4	30.2	28.6	24.2	100.0
Oil	27.5	30.4	24.9	21.2	28.3	29.9	32.1	29.9	28.3	24.0	98.9
Gas	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	1.1
Gasoline	8.9	9.7	8.3	7.4	9.0	8.5	8.9	8.9	8.9	6.6	27.2
Diesel	9.5	10.9	8.6	5.6	9.1	9.5	10.4	9.1	9.8	7.8	32.3
Heating Oil	2.7	3.0	2.1	2.7	3.9	4.5	5.0	4.3	3.6	3.2	13.2
Aviation Jet	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.1	0.2
LPG	0.4	0.4	0.5	0.2	0.3	0.4	0.3	0.2	0.3	0.3	1.2
CO₂ Emissions (Million tons CO₂)	393.5	374.9	343.7	328.1	336.0	333.1	329.2	324.0	317.4	275.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	168.5	165.4	154.5	147.5	149.9	146.7	142.6	139.2	136.0	129.7	-
Final energy intensity (toe/million \$15ppp)	51.3	52.4	51.9	49.5	50.4	49.6	48.4	48.3	47.9	48.0	-
Total energy intensity (toe/million \$15ppp)	72.0	71.3	70.0	66.1	68.2	66.6	66.5	64.9	64.0	64.5	-

*Heat is included

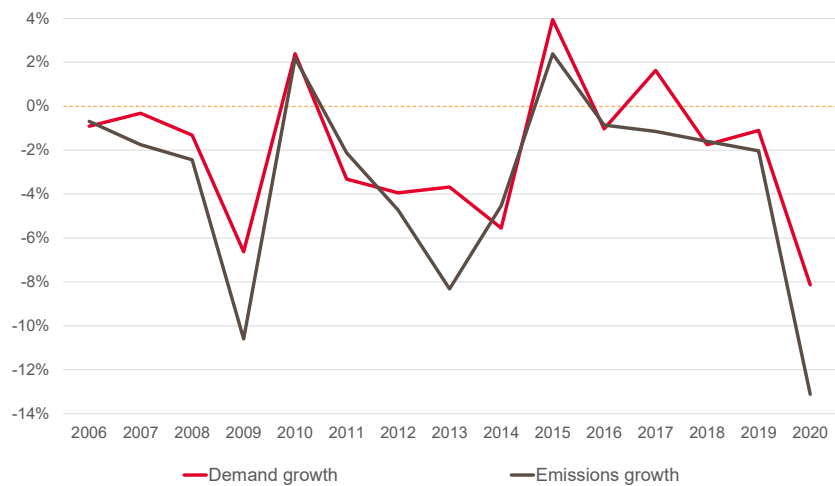
Primary energy demand mix



Electricity generation by source



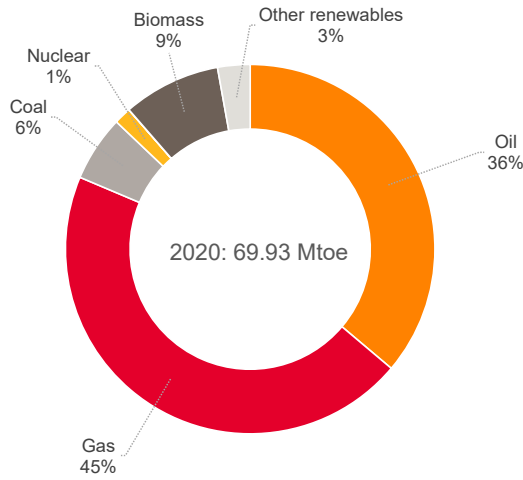
Primary energy demand and CO₂ emissions growth



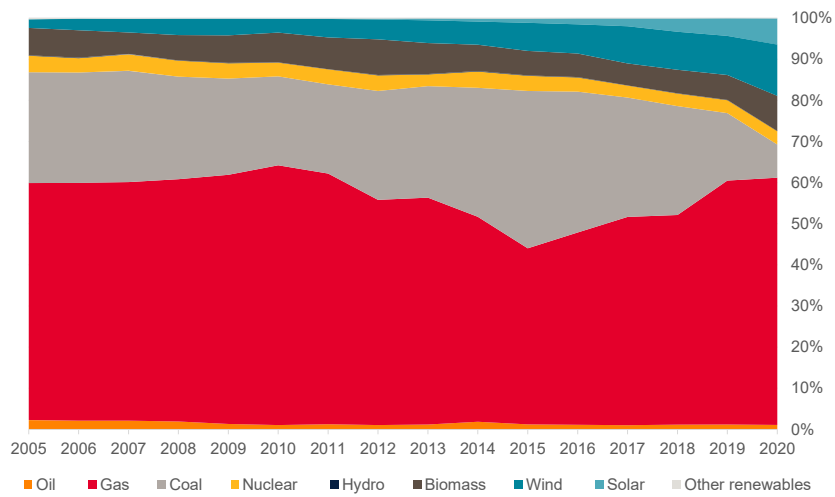
Netherlands (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	77.0	77.1	75.4	71.1	72.1	73.6	74.2	72.9	71.7	69.9	100.0
Oil	28.4	28.6	27.4	26.4	26.3	27.4	27.9	27.0	25.7	25.3	36.1
Gas	35.0	33.5	33.4	29.1	28.6	30.0	31.0	30.7	32.2	31.6	45.1
Coal	7.4	8.2	8.1	9.0	10.9	10.1	9.1	8.2	6.4	4.0	5.7
Nuclear	1.1	1.0	0.8	1.1	1.1	1.0	0.9	0.9	1.0	1.0	1.5
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.7	3.8	3.6	3.6	3.5	3.6	3.7	3.9	4.6	6.0	8.5
Other renewables	0.4	0.4	0.5	0.6	0.7	0.8	1.1	1.2	1.4	2.0	2.8
Electricity balance of trade*	0.8	1.5	1.6	1.3	0.9	0.5	0.6	0.9	0.4	0.1	0.1
Total final consumption, by source	61.8	62.5	61.5	56.9	57.8	58.9	60.2	59.5	58.3	56.7	100.0
Oil	25.3	25.4	24.5	23.5	23.7	24.7	25.4	24.9	23.8	23.3	41.0
Gas	21.1	22.0	22.1	18.8	19.7	19.7	20.1	19.5	19.3	18.4	32.4
Coal	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.1	1.8	3.2
Electricity	9.3	9.0	9.0	8.7	8.9	9.1	9.2	9.3	9.2	9.0	15.9
Heat	2.9	2.7	2.7	2.7	2.3	2.3	2.2	2.1	2.3	2.5	4.5
Biomass	1.1	1.1	1.1	1.2	1.1	1.1	1.2	1.5	1.6	1.7	3.0
Electricity generation, by source	9.8	8.9	8.7	8.9	9.5	9.9	10.1	9.8	10.4	10.6	100.0
Oil	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Gas	6.0	4.9	4.8	4.4	4.1	4.6	5.1	5.0	6.2	6.3	60.1
Coal	2.1	2.3	2.4	2.8	3.6	3.4	2.9	2.6	1.7	0.9	8.1
Nuclear	0.4	0.3	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.3	3.3
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.8	0.8	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.9	8.5
Wind	0.4	0.4	0.5	0.5	0.6	0.7	0.9	0.9	1.0	1.3	12.4
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.7	6.4
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	61.8	62.5	61.5	56.9	57.8	58.9	60.2	59.5	58.3	56.7	100.0
Industry	15.7	15.6	15.3	15.0	15.2	15.6	15.8	15.6	15.5	15.1	26.6
Transport	11.8	11.4	11.1	10.3	10.4	10.5	10.7	11.0	11.0	9.7	17.0
Residential/Commercial	17.2	18.1	18.6	15.4	16.2	16.4	16.4	16.3	16.0	15.8	27.9
Oil final consumption, by sector	25.3	25.4	24.5	23.5	23.7	24.7	25.4	24.9	23.8	23.3	100.0
Industry	3.0	3.4	3.1	3.2	3.1	3.5	3.5	3.6	3.3	3.5	14.9
Transport	11.3	10.9	10.6	9.8	9.9	10.0	10.2	10.2	10.1	8.8	37.8
Residential/Commercial	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.8
Natural gas final consumption, by sector	21.1	22.0	22.1	18.8	19.7	19.7	20.1	19.5	19.3	18.4	100.0
Industry	4.9	4.8	4.8	4.6	5.1	5.1	5.3	5.1	5.3	4.9	26.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3
Residential/Commercial	10.8	11.7	12.2	9.3	9.9	10.1	10.0	9.9	9.5	9.3	50.7
Refined products consumption	22.4	22.9	21.9	20.7	21.5	22.4	23.3	23.2	22.3	21.6	100.0
Gasoline	4.2	4.0	3.9	3.8	3.9	4.0	4.1	4.2	4.3	3.6	16.9
Diesel	7.8	7.4	7.4	6.8	7.0	6.9	7.0	7.0	6.8	6.0	27.7
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	0.2
LPG	1.6	1.2	2.0	2.6	2.8	2.3	2.1	2.4	2.0	2.2	10.1
Imports	160.4	168.3	166.3	163.7	184.8	189.1	191.6	194.7	193.9	176.8	100.0
Oil	143.2	148.2	144.5	141.4	155.6	156.0	152.7	151.1	151.5	133.9	75.7
Gas	17.2	20.1	21.8	22.3	29.2	33.1	38.9	43.6	42.4	42.9	24.3
Gasoline	10.8	12.5	10.2	10.0	10.4	10.4	11.3	8.0	7.6	7.9	4.5
Diesel	18.7	18.5	18.2	15.7	16.6	19.2	17.1	12.3	13.1	11.7	6.6
Heating Oil	32.7	31.7	32.4	33.5	36.9	30.2	15.3	12.5	11.5	19.5	11.0
Aviation Jet	2.7	2.7	4.0	2.7	3.2	4.6	3.7	3.4	3.5	4.1	2.3
LPG	2.2	1.7	2.8	3.8	5.0	4.0	3.5	4.3	3.6	3.6	2.0
Exports	141.0	148.8	153.4	146.1	152.6	157.7	153.4	150.4	142.8	122.8	100.0
Oil	99.9	103.3	102.6	102.0	112.9	114.8	113.2	111.4	108.6	94.1	76.7
Gas	41.1	45.5	50.8	44.1	39.7	42.9	40.2	39.0	34.2	28.6	23.3
Gasoline	15.6	20.2	18.2	19.8	21.9	20.6	21.3	24.4	27.1	21.3	17.3
Diesel	31.4	29.8	30.0	28.2	27.2	30.7	29.7	23.6	24.6	23.5	19.1
Heating Oil	26.3	27.0	27.0	28.2	35.1	30.3	14.4	10.8	9.6	18.5	15.0
Aviation Jet	6.5	6.0	7.0	6.2	6.7	8.4	7.7	8.4	8.3	6.1	5.0
LPG	1.6	1.7	1.6	1.8	2.8	2.7	2.3	2.4	2.3	2.0	1.7
CO₂ Emissions (Million tons CO₂)	178.5	176.8	175.2	168.4	175.5	175.6	173.6	166.9	160.4	151.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	214.1	214.3	212.6	201.5	206.0	201.7	193.8	181.6	171.5	168.9	-
Final energy intensity (toe/million \$15ppp)	58.1	59.1	59.2	53.0	53.5	53.1	52.1	50.8	49.3	49.1	-
Total energy intensity (toe/million \$15ppp)	92.4	93.4	91.5	85.1	84.6	84.5	82.9	79.3	76.7	78.0	-

*Heat is included

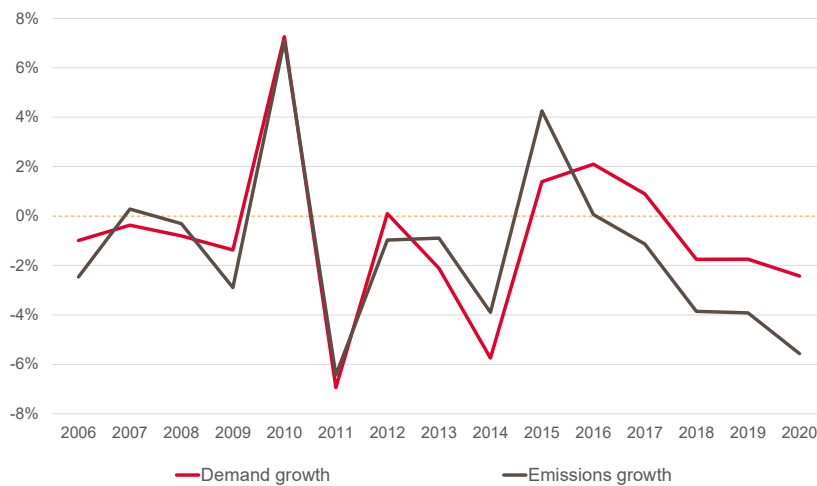
Primary energy demand mix



Electricity generation by source



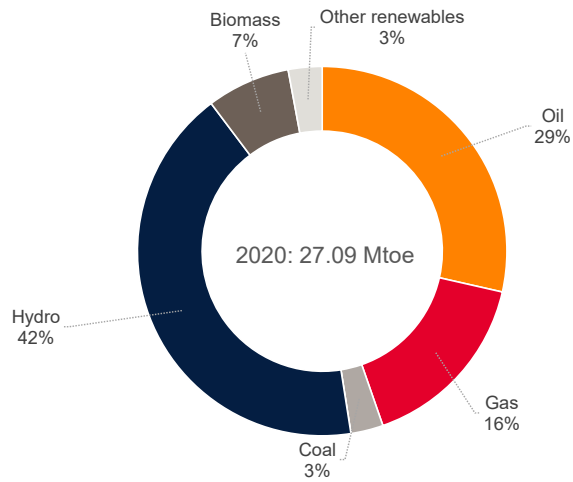
Primary energy demand and CO₂ emissions growth



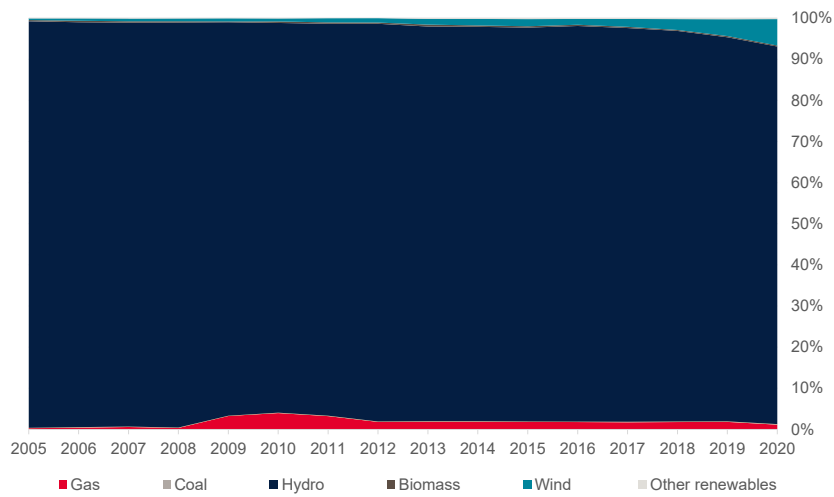
Norway (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	28.4	30.8	32.8	29.0	29.6	28.5	30.1	28.8	28.1	27.1	100.0
Oil	10.4	12.0	13.9	10.3	10.2	9.3	11.4	9.4	8.9	8.2	30.3
Gas	5.1	5.5	5.6	5.8	6.2	5.6	4.6	5.2	5.1	4.6	17.1
Coal	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	3.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	10.3	12.2	11.0	11.7	11.8	12.3	12.2	11.9	10.8	12.1	44.8
Biomass	1.8	1.7	1.7	1.4	1.5	1.7	1.9	1.9	2.0	2.1	7.7
Other renewables	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	3.1
Electricity balance of trade*	-0.2	-1.5	-0.3	-1.2	-1.1	-1.3	-1.2	-0.8	0.1	-1.6	-6.1
Total final consumption, by source	20.7	20.8	20.8	20.3	20.6	20.7	20.8	21.0	20.8	20.1	100.0
Oil	8.2	8.1	8.1	7.9	7.8	7.7	7.4	7.6	7.3	6.7	33.5
Gas	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	1.0	1.0	4.8
Coal	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	3.6
Electricity	9.3	9.5	9.5	9.3	9.6	9.8	9.8	10.0	9.8	9.7	48.2
Heat	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	2.6
Biomass	1.4	1.3	1.2	1.0	1.0	1.2	1.4	1.3	1.4	1.5	7.3
Electricity generation, by source	11.0	12.7	11.5	12.2	12.4	12.8	12.9	12.6	11.6	13.3	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	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	1.1
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	10.5	12.3	11.1	11.7	11.9	12.3	12.3	12.0	10.8	12.2	91.8
Biomass	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Wind	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	6.4
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	20.7	20.8	20.8	20.3	20.6	20.7	20.8	21.0	20.8	20.1	100.0
Industry	6.3	6.1	6.0	5.9	6.1	6.0	6.2	6.3	6.2	6.3	31.5
Transport	4.7	4.7	4.8	4.9	4.9	5.0	4.7	4.6	4.5	4.0	19.9
Residential/Commercial	6.6	6.9	6.9	6.4	6.6	6.9	6.9	7.1	7.0	6.9	34.1
Oil final consumption, by sector	8.2	8.1	8.1	7.9	7.8	7.7	7.4	7.6	7.3	6.7	100.0
Industry	1.0	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.8	0.8	12.0
Transport	4.5	4.4	4.5	4.6	4.6	4.5	4.0	4.0	3.8	3.4	49.8
Residential/Commercial	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	5.9
Natural gas final consumption, by sector	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	1.0	1.0	100.0
Industry	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	31.4
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	12.3
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Refined products consumption	8.2	8.1	8.1	7.9	7.8	7.7	7.4	7.6	7.3	6.7	100.0
Gasoline	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.8	0.7	0.7	10.2
Diesel	4.2	4.2	4.3	4.2	4.1	4.1	3.7	3.8	3.5	3.3	49.1
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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	2.3
LPG	0.9	0.9	0.9	0.8	0.8	0.6	0.6	0.6	0.6	0.5	7.6
Imports	5.5	5.6	6.7	5.5	6.4	6.3	7.9	9.2	9.2	10.1	100.0
Oil	5.5	5.6	6.7	5.5	6.4	6.3	7.9	9.2	9.2	10.1	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	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.5	4.7
Diesel	1.2	1.5	1.3	1.1	1.7	1.8	1.7	1.6	2.1	2.9	28.3
Heating Oil	1.3	1.1	1.9	1.1	1.6	1.3	1.8	1.4	0.8	0.7	6.8
Aviation Jet	0.3	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.3	0.3	2.9
LPG	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.2	2.4
Exports	174.1	176.0	166.8	171.8	182.5	185.9	193.9	186.0	178.9	190.8	100.0
Oil	88.7	79.9	76.1	81.8	85.7	89.2	89.9	84.7	83.3	97.2	50.9
Gas	85.4	96.0	90.7	90.0	96.7	96.8	104.0	101.3	95.6	93.6	49.1
Gasoline	2.9	2.6	2.3	2.2	3.3	3.5	3.8	4.1	3.9	3.1	1.6
Diesel	3.0	2.6	2.7	2.8	3.4	2.7	4.3	4.2	4.2	3.4	1.8
Heating Oil	1.8	1.6	1.8	1.5	1.4	1.0	1.4	1.4	1.5	1.5	0.8
Aviation Jet	0.1	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	0.0
CO₂ Emissions (Million tons CO₂)	40.2	38.8	38.6	38.9	39.1	38.2	37.8	38.0	38.1	34.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	138.5	130.1	128.2	126.6	124.9	120.5	116.7	115.9	114.8	111.9	-
Final energy intensity (toe/million \$15ppp)	63.5	62.0	61.5	58.4	57.7	58.0	56.3	56.2	54.8	56.5	-
Total energy intensity (toe/million \$15ppp)	97.7	103.3	108.9	94.2	94.4	90.1	92.8	87.6	84.8	86.8	-

*Heat is included

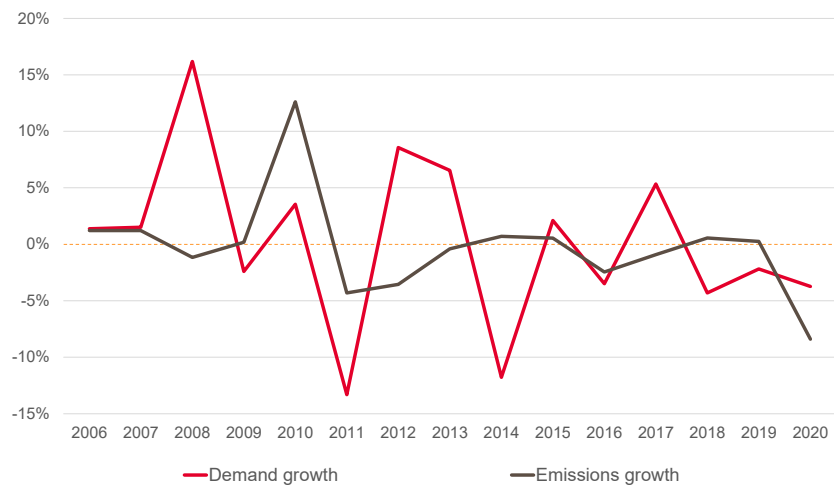
Primary energy demand mix



Electricity generation by source



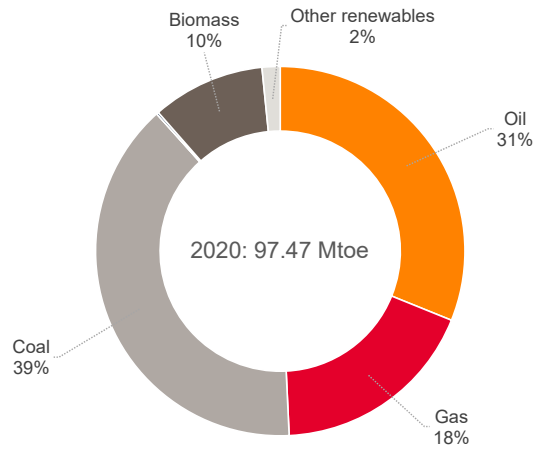
Primary energy demand and CO₂ emissions growth



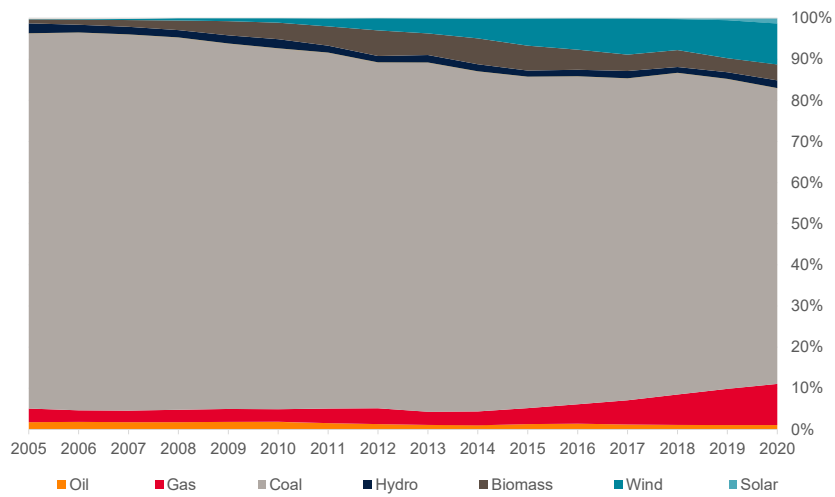
Poland (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	101.3	98.1	98.2	94.6	95.6	99.8	104.4	106.5	103.4	97.5	100.0
Oil	25.8	24.7	22.8	22.5	24.0	26.4	29.6	30.4	30.8	29.9	30.7
Gas	12.8	13.7	13.7	13.4	13.8	14.6	15.4	16.1	16.9	17.4	17.9
Coal	54.7	50.9	53.0	49.4	48.3	49.1	49.4	49.4	44.0	37.6	38.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Biomass	7.9	8.4	8.2	8.2	8.3	8.1	8.2	8.7	9.1	9.5	9.8
Other renewables	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.1	1.4	1.5	1.6
Electricity balance of trade*	-0.4	-0.2	-0.3	0.3	0.1	0.3	0.3	0.6	1.0	1.3	1.3
Total final consumption, by source	68.9	68.3	67.2	65.8	67.1	71.3	75.9	76.6	75.5	72.4	100.0
Oil	23.1	21.8	20.8	20.9	22.2	24.4	27.9	28.4	29.0	28.2	39.0
Gas	10.1	10.4	10.4	10.0	10.1	10.9	11.0	10.9	11.2	11.3	15.7
Coal	13.5	13.8	13.4	12.9	12.4	12.7	12.9	12.7	10.9	8.7	12.0
Electricity	10.4	10.5	10.6	10.8	11.0	11.4	11.7	12.1	11.9	11.5	15.9
Heat	5.8	6.0	6.0	5.5	5.5	5.7	5.9	5.7	5.5	5.4	7.5
Biomass	5.9	5.8	6.0	5.7	5.9	6.1	6.5	6.8	6.9	7.2	9.9
Electricity generation, by source	14.1	13.9	14.2	13.7	14.2	14.3	14.7	14.6	14.1	13.5	100.0
Oil	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	1.0
Gas	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.2	1.4	10.0
Coal	12.2	11.7	12.0	11.3	11.4	11.4	11.5	11.4	10.6	9.7	71.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	1.9
Biomass	0.7	0.9	0.7	0.9	0.9	0.7	0.6	0.6	0.5	0.5	3.9
Wind	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.1	1.3	1.3	9.9
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.2
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	68.9	68.3	67.2	65.8	67.1	71.3	75.9	76.6	75.5	72.4	100.0
Industry	14.7	14.6	15.1	15.2	15.2	15.8	17.0	17.5	17.4	16.5	22.7
Transport	16.9	16.2	15.1	15.3	16.2	18.1	21.0	22.0	22.6	22.0	30.4
Residential/Commercial	28.5	29.0	28.5	26.7	26.7	28.2	28.0	27.5	26.1	24.8	34.2
Oil final consumption, by sector	23.1	21.8	20.8	20.9	22.2	24.4	27.9	28.4	29.0	28.2	100.0
Industry	0.9	0.8	0.8	0.7	0.6	0.6	0.7	0.7	0.7	0.7	2.5
Transport	15.7	15.1	14.1	14.3	15.3	17.4	20.1	20.7	21.3	20.6	72.9
Residential/Commercial	1.3	1.2	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	3.6
Natural gas final consumption, by sector	10.1	10.4	10.4	10.0	10.1	10.9	11.0	10.9	11.2	11.3	100.0
Industry	3.2	3.1	3.2	3.2	3.2	3.4	3.7	3.9	4.2	4.3	38.1
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.6
Residential/Commercial	5.1	5.2	5.2	4.7	4.8	5.4	5.1	4.9	5.0	5.1	44.6
Refined products consumption	23.1	21.8	20.8	20.9	22.2	24.4	27.9	28.4	29.0	28.2	100.0
Gasoline	3.9	3.8	3.6	3.5	3.7	4.0	4.3	4.5	4.7	4.3	15.4
Diesel	12.9	12.2	11.3	11.4	12.1	14.0	16.6	17.1	17.4	17.1	60.7
Heating Oil	0.2	0.2	0.1	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	2.6	2.6	2.6	2.6	2.6	2.7	2.9	2.9	3.1	2.9	10.1
Imports	39.9	40.2	38.7	38.9	42.5	44.8	48.1	49.9	50.7	47.9	100.0
Oil	30.2	30.2	28.4	29.2	32.5	32.7	35.1	36.8	36.2	33.7	70.2
Gas	9.7	10.0	10.3	9.7	10.0	12.2	13.0	13.1	14.5	14.3	29.8
Gasoline	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.8
Diesel	2.0	1.4	0.9	1.5	2.1	3.8	5.3	4.8	4.6	4.3	9.1
Heating Oil	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.2	2.1	2.3	2.2	2.2	2.4	2.7	2.8	2.9	2.5	5.2
Exports	4.8	5.9	7.0	7.5	8.5	8.0	6.4	6.7	6.0	5.1	100.0
Oil	4.8	5.9	6.9	7.5	8.5	7.3	5.4	6.2	5.4	4.5	89.8
Gas	0.0	0.0	0.1	0.1	0.0	0.7	1.0	0.6	0.6	0.5	10.2
Gasoline	0.5	0.7	0.9	0.7	0.8	0.5	0.2	0.4	0.3	0.2	4.4
Diesel	0.1	0.3	0.6	1.0	1.8	1.1	0.2	0.0	0.0	0.2	4.1
Heating Oil	1.9	2.2	2.5	2.8	2.6	2.4	2.4	2.7	2.2	1.1	21.0
Aviation Jet	0.4	0.4	0.4	0.5	0.5	0.5	0.2	0.3	0.3	0.2	3.1
LPG	0.1	0.1	0.3	0.2	0.2	0.3	0.5	0.6	0.5	0.4	7.7
CO₂ Emissions (Million tons CO₂)	313.5	307.6	304.8	291.8	296.0	306.6	319.5	320.2	301.9	278.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	339.7	328.0	320.5	297.0	290.2	291.6	289.6	276.0	249.0	235.9	-
Final energy intensity (toe/million \$15ppp)	69.1	67.6	65.4	61.6	60.1	62.4	63.3	61.1	57.7	56.8	-
Total energy intensity (toe/million \$15ppp)	109.7	104.6	103.3	96.3	93.7	94.9	94.7	91.8	85.3	82.7	-

*Heat is included

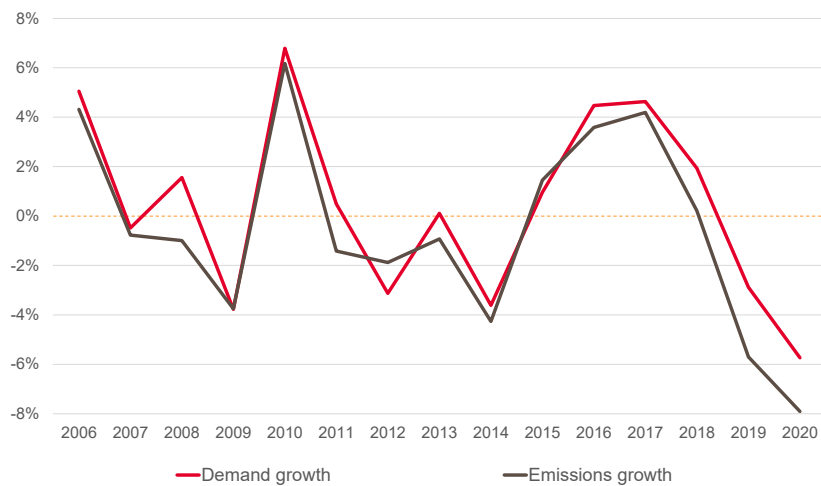
Primary energy demand mix



Electricity generation by source



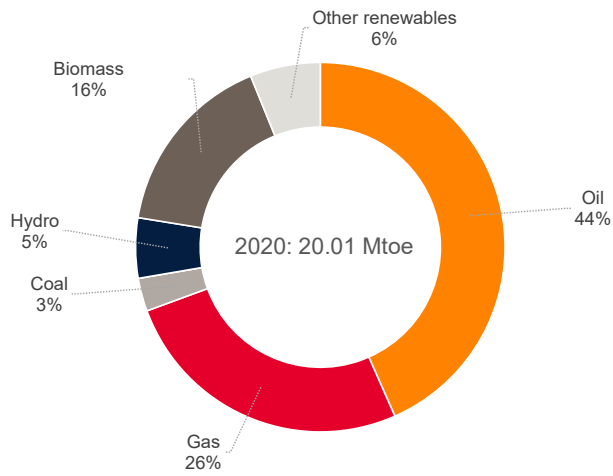
Primary energy demand and CO₂ emissions growth



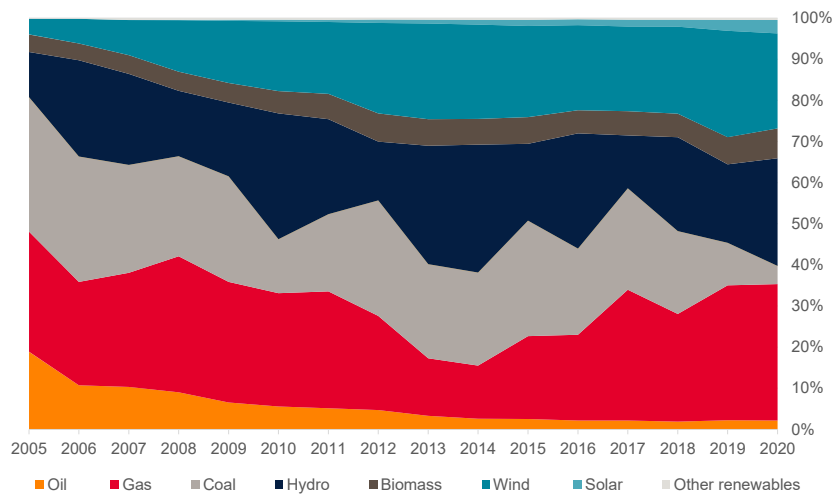
Portugal (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	22.8	21.5	21.6	21.2	22.0	21.9	22.8	22.1	21.7	20.0	100.0
Oil	10.6	9.4	9.5	9.3	9.4	9.3	9.4	8.9	9.6	8.5	42.5
Gas	4.5	3.9	3.8	3.5	4.1	4.3	5.4	5.0	5.2	5.1	25.5
Coal	2.2	2.9	2.7	2.7	3.3	2.8	3.2	2.7	1.3	0.6	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	1.0	0.5	1.2	1.3	0.7	1.4	0.5	1.1	0.7	1.0	5.2
Biomass	3.3	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.0	3.2	16.0
Other renewables	0.8	0.9	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	6.0
Electricity balance of trade*	0.5	0.9	0.5	0.3	0.5	-0.2	0.0	0.1	0.6	0.4	2.1
Total final consumption, by source	18.2	16.4	16.2	16.2	16.2	16.2	16.4	16.2	17.0	15.9	100.0
Oil	9.4	8.2	8.1	8.2	8.2	8.0	8.2	7.8	8.4	7.4	46.2
Gas	1.6	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.8	11.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity	4.2	4.0	3.9	3.9	3.9	4.0	4.0	4.1	4.1	3.9	24.4
Heat	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	2.3
Biomass	2.5	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.4	2.5	15.7
Electricity generation, by source	4.5	4.0	4.4	4.5	4.5	5.2	5.1	5.1	4.6	4.6	100.0
Oil	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.1
Gas	1.3	0.9	0.6	0.6	0.9	1.1	1.6	1.3	1.5	1.5	33.2
Coal	0.8	1.1	1.0	1.0	1.3	1.1	1.3	1.0	0.5	0.2	4.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.0	0.6	1.3	1.4	0.8	1.5	0.7	1.2	0.9	1.2	26.2
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	7.3
Wind	0.8	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.1	23.1
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	3.3
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	18.2	16.4	16.2	16.2	16.2	16.2	16.4	16.2	17.0	15.9	100.0
Industry	5.3	4.6	4.6	4.4	4.4	4.4	4.5	4.6	4.9	4.9	30.6
Transport	6.0	5.5	5.4	5.5	5.6	5.7	5.8	5.8	6.1	5.1	32.0
Residential/Comercial	4.6	4.5	4.4	4.5	4.5	4.5	4.5	4.6	4.6	4.5	28.3
Oil final consumption, by sector	9.4	8.2	8.1	8.2	8.2	8.0	8.2	7.8	8.4	7.4	100.0
Industry	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	9.5
Transport	5.7	5.2	5.1	5.2	5.2	5.4	5.5	5.5	5.7	4.8	64.9
Residential/Comercial	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	7.1
Natural gas final consumption, by sector	1.6	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.8	100.0
Industry	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	69.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Residential/Comercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	29.3
Refined products consumption	9.4	8.2	8.1	8.2	8.2	8.0	8.2	7.8	8.4	7.4	100.0
Gasoline	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	0.9	12.5
Diesel	4.8	4.4	4.3	4.4	4.5	4.6	4.7	4.7	4.9	4.2	57.6
Heating Oil	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.1
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	1.1
LPG	0.8	0.6	0.9	1.1	0.9	0.9	0.8	0.7	0.9	0.9	12.0
Imports	19.6	18.5	20.0	18.8	22.2	22.0	23.9	21.9	22.1	20.0	100.0
Oil	15.0	14.5	16.2	15.3	18.1	17.8	18.4	16.9	16.8	14.9	74.2
Gas	4.5	3.9	3.8	3.5	4.1	4.3	5.4	5.1	5.3	5.2	25.8
Gasoline	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	1.0
Diesel	1.4	0.9	0.6	0.7	0.8	1.0	0.9	0.9	1.1	0.9	4.6
Heating Oil	0.4	0.2	0.2	0.2	0.3	0.2	0.2	0.4	0.3	0.4	2.0
Aviation Jet	0.3	0.2	0.0	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.0
LPG	0.5	0.5	0.7	0.9	0.8	0.8	0.7	0.6	0.8	0.8	4.0
Exports	2.9	3.7	5.6	4.8	6.9	6.8	7.0	5.4	4.8	5.3	100.0
Oil	2.9	3.7	5.6	4.8	6.9	6.8	7.0	5.4	4.8	5.3	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	0.8	0.9	1.4	1.0	1.9	1.8	2.0	1.7	1.6	1.3	24.9
Diesel	0.1	0.4	1.7	1.3	2.3	2.1	2.1	1.2	0.9	1.3	25.0
Heating Oil	1.2	1.4	1.5	1.5	1.6	1.6	1.5	1.2	1.1	1.5	29.3
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	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.7
CO₂ Emissions (Million tons CO₂)	48.0	46.5	45.1	44.2	48.2	47.6	52.0	48.1	44.5	38.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	152.3	153.8	150.5	146.3	156.9	151.9	160.2	144.8	131.1	124.0	-
Final energy intensity (toe/million \$15ppp)	52.0	49.9	49.6	48.9	48.5	47.8	46.9	46.6	47.0	47.5	-
Total energy intensity (toe/million \$15ppp)	72.5	71.0	72.0	70.3	71.7	69.7	70.4	66.4	63.9	63.8	-

*Heat is included

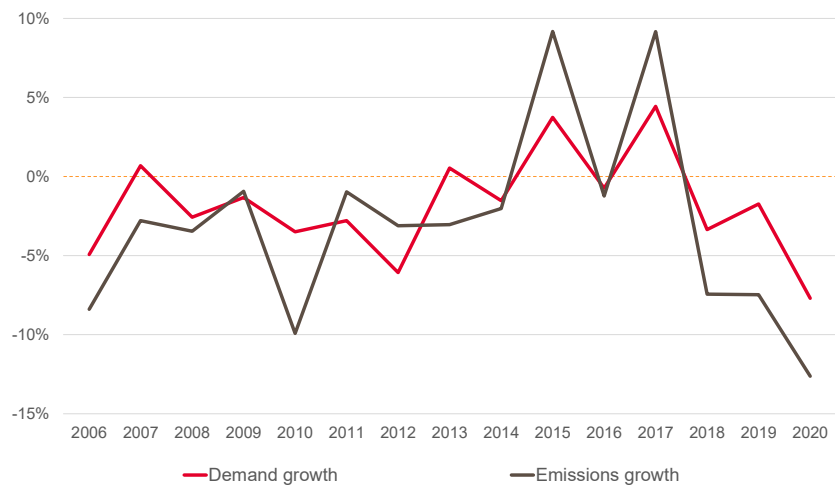
Primary energy demand mix



Electricity generation by source



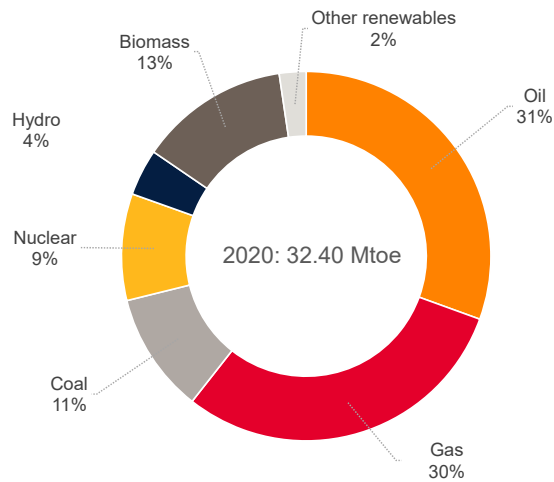
Primary energy demand and CO₂ emissions growth



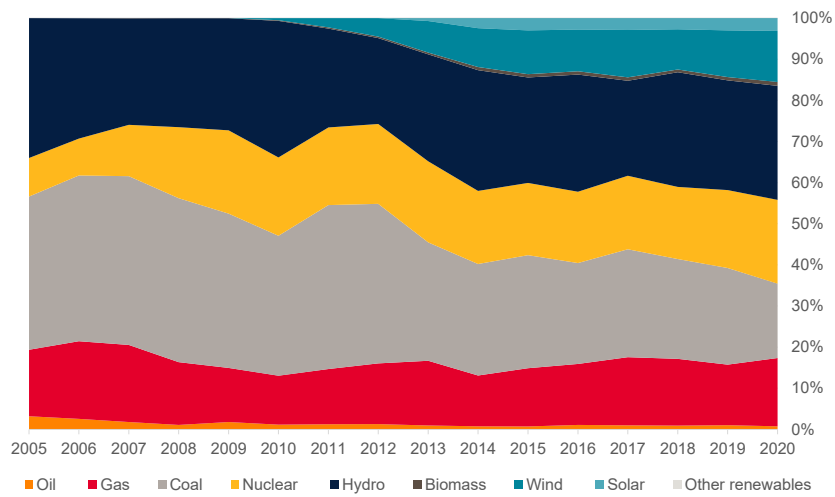
Romania (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	35.9	35.0	32.0	31.6	31.9	31.9	33.4	33.6	33.1	32.4	100.0
Oil	8.6	8.4	8.0	8.0	8.6	8.8	9.5	9.8	9.8	9.8	30.2
Gas	11.1	10.8	9.8	9.3	8.9	9.0	9.6	9.8	9.1	9.6	29.7
Coal	8.1	7.6	5.7	5.7	5.9	5.3	5.4	5.1	4.9	3.4	10.4
Nuclear	3.1	3.0	3.0	3.0	3.0	2.9	3.0	3.0	2.9	3.0	9.2
Hydro	1.3	1.0	1.3	1.6	1.4	1.6	1.2	1.5	1.3	1.3	4.0
Biomass	3.7	3.9	3.9	3.9	3.8	4.0	4.0	4.0	4.1	4.2	13.0
Other renewables	0.1	0.2	0.4	0.7	0.8	0.7	0.8	0.7	0.7	0.8	2.3
Electricity balance of trade*	-0.1	0.0	-0.1	-0.6	-0.6	-0.4	-0.2	-0.2	0.2	0.4	1.2
Total final consumption, by source	24.0	24.4	23.2	23.1	22.8	23.2	24.1	24.4	24.8	24.8	100.0
Oil	7.1	7.6	7.1	7.3	7.6	8.0	8.3	8.6	9.0	9.0	36.5
Gas	7.0	6.9	6.5	6.3	5.6	5.5	5.9	6.1	6.0	6.2	25.0
Coal	0.9	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.9	0.7	2.8
Electricity	3.7	3.6	3.5	3.6	3.7	3.7	3.8	3.9	3.9	3.8	15.3
Heat	1.7	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.1	4.4
Biomass	3.6	3.8	3.8	3.7	3.6	3.8	3.8	3.8	3.9	4.0	16.0
Electricity generation, by source	5.4	5.1	5.1	5.6	5.7	5.6	5.5	5.6	5.1	4.8	100.0
Oil	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.8
Gas	0.7	0.7	0.8	0.7	0.8	0.8	0.9	0.9	0.8	0.8	16.6
Coal	2.1	2.0	1.5	1.5	1.6	1.4	1.4	1.4	1.2	0.9	18.1
Nuclear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	20.4
Hydro	1.3	1.1	1.3	1.7	1.5	1.6	1.3	1.6	1.4	1.3	27.7
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Wind	0.1	0.2	0.4	0.5	0.6	0.6	0.6	0.5	0.6	0.6	12.4
Solar	0.0	0.0	0.0	0.1	0.2	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	24.0	24.4	23.2	23.1	22.8	23.2	24.1	24.4	24.8	24.8	100.0
Industry	7.1	6.8	6.3	6.4	6.4	6.3	6.4	6.6	6.7	6.5	26.3
Transport	5.0	5.4	5.3	5.3	5.4	5.8	6.2	6.4	6.6	6.5	26.3
Residential/Commercial	9.6	9.8	9.5	9.2	9.2	9.3	9.6	9.6	9.6	9.7	39.1
Oil final consumption, by sector	7.1	7.6	7.1	7.3	7.6	8.0	8.3	8.6	9.0	9.0	100.0
Industry	0.8	0.9	0.8	0.9	0.9	0.9	0.9	1.0	1.1	1.2	13.3
Transport	4.7	5.1	5.0	5.1	5.1	5.5	5.8	6.0	6.1	6.0	66.8
Residential/Commercial	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	3.7
Natural gas final consumption, by sector	7.0	6.9	6.5	6.3	5.6	5.5	5.9	6.1	6.0	6.2	100.0
Industry	3.0	2.6	2.4	2.5	2.2	2.1	2.2	2.3	2.2	2.2	36.0
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	3.1	3.3	3.2	2.9	3.0	3.1	3.3	3.3	3.3	3.5	55.7
Refined products consumption	7.1	7.6	7.1	7.3	7.6	8.0	8.3	8.6	9.0	9.0	100.0
Gasoline	1.3	1.4	1.3	1.4	1.3	1.4	1.4	1.4	1.4	1.2	13.8
Diesel	3.9	4.4	4.2	4.2	4.4	4.7	5.1	5.3	5.5	5.6	62.2
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	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	4.8
Imports	10.4	10.2	9.0	9.7	9.9	11.7	12.1	12.9	14.4	12.6	100.0
Oil	7.9	7.9	7.8	9.3	9.7	10.5	11.2	11.7	12.1	10.8	86.0
Gas	2.5	2.3	1.2	0.5	0.2	1.2	1.0	1.2	2.2	1.8	14.0
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9
Diesel	1.3	1.6	1.1	1.0	1.2	1.3	1.4	1.5	1.2	1.4	10.8
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	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2
LPG	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.3	2.3
Exports	3.8	3.5	3.9	4.7	4.9	5.3	5.2	5.5	5.6	4.4	100.0
Oil	3.8	3.5	3.9	4.7	4.9	5.3	5.2	5.4	5.6	4.3	97.3
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.7
Gasoline	1.8	1.6	1.8	1.8	1.9	2.2	2.0	2.3	2.3	2.0	44.6
Diesel	0.7	0.7	0.9	1.7	1.6	1.7	1.6	1.6	1.6	1.1	24.7
Heating Oil	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.8
Aviation Jet	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.2	4.4
LPG	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	6.7
CO₂ Emissions (Million tons CO₂)	81.6	79.1	69.6	69.1	69.4	67.9	71.1	71.6	69.1	63.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	216.1	205.3	174.3	167.4	162.0	151.2	147.7	143.1	132.7	129.1	-
Final energy intensity (toe/million \$15ppp)	58.9	58.7	54.3	52.1	50.5	48.9	47.7	46.6	45.4	47.6	-
Total energy intensity (toe/million \$15ppp)	94.9	90.8	80.1	76.7	74.5	70.9	69.4	67.2	63.7	65.5	-

*Heat is included

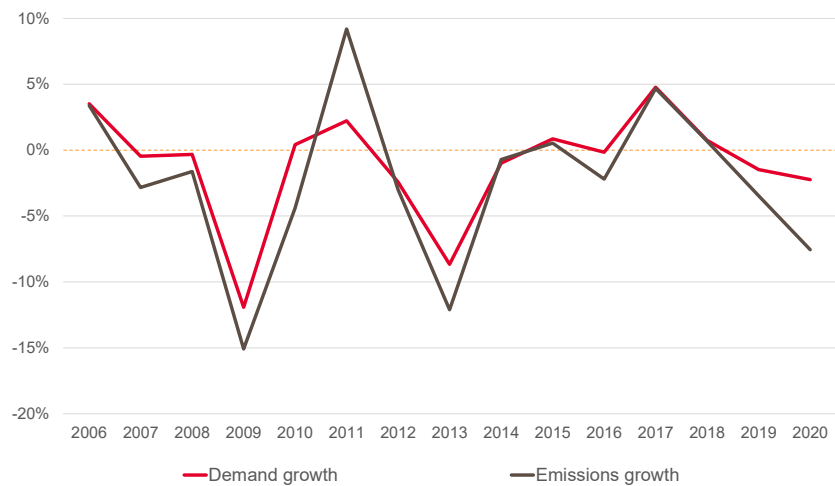
Primary energy demand mix



Electricity generation by source



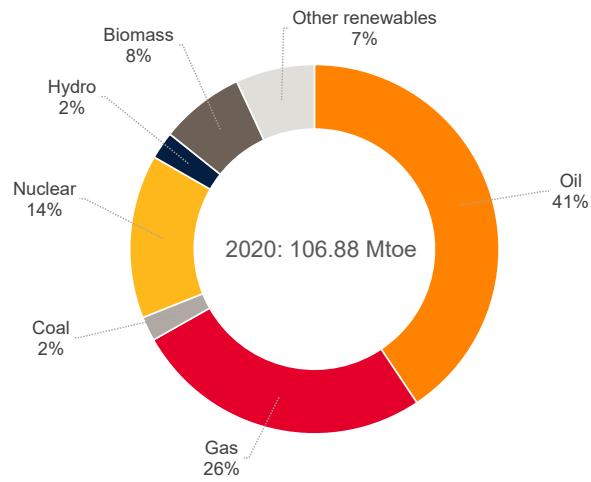
Primary energy demand and CO₂ emissions growth



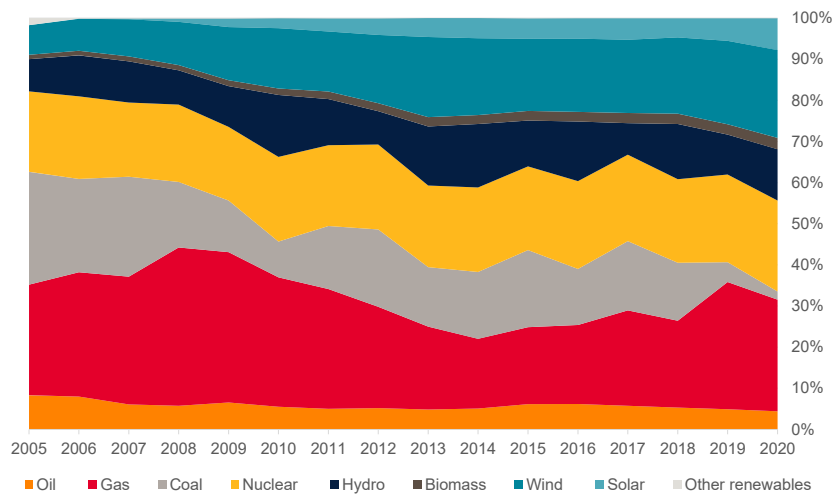
Spain (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	125.1	124.4	115.8	113.2	117.5	118.5	124.7	124.2	120.7	106.9	100.0
Oil	54.4	49.9	47.3	46.4	48.7	50.1	52.9	52.9	51.7	43.2	40.4
Gas	28.9	28.6	26.2	23.7	24.5	25.0	27.3	27.1	30.9	27.8	26.0
Coal	12.5	15.2	11.1	11.4	13.4	10.5	12.8	11.3	4.9	2.3	2.1
Nuclear	15.0	16.0	14.8	14.9	14.9	15.3	15.1	14.5	15.3	15.2	14.3
Hydro	2.6	1.8	3.2	3.4	2.4	3.1	1.6	3.0	2.1	2.5	2.4
Biomass	7.4	7.9	7.2	7.0	7.0	7.2	7.6	8.0	7.9	7.9	7.4
Other renewables	4.6	5.7	6.5	6.4	6.2	6.2	6.3	6.2	6.9	7.3	6.9
Electricity balance of trade*	-0.3	-0.7	-0.3	-0.0	0.3	1.0	1.1	1.3	1.0	0.7	0.6
Total final consumption, by source	89.5	85.2	81.7	79.3	80.5	82.8	84.7	86.8	85.7	75.1	100.0
Oil	46.3	41.8	39.9	38.5	40.2	42.0	42.8	43.8	43.9	35.7	47.6
Gas	14.4	14.9	15.2	14.7	13.5	13.8	13.9	14.7	13.9	13.5	18.0
Coal	1.9	1.5	1.8	1.5	1.5	1.5	1.7	1.6	1.4	0.8	1.1
Electricity	20.9	20.6	19.8	19.5	19.9	20.0	20.5	20.5	20.2	19.0	25.3
Heat	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5
Biomass	5.6	6.1	4.8	4.9	5.0	5.2	5.5	5.9	5.9	5.7	7.5
Electricity generation, by source	25.3	25.6	24.6	24.0	24.2	23.6	23.7	23.6	23.6	22.7	100.0
Oil	1.3	1.3	1.2	1.2	1.5	1.5	1.4	1.2	1.2	1.0	4.4
Gas	7.4	6.3	4.9	4.1	4.5	4.5	5.5	5.0	7.3	6.2	27.1
Coal	3.9	4.8	3.6	3.9	4.5	3.2	4.0	3.3	1.1	0.4	2.0
Nuclear	5.0	5.3	4.9	4.9	4.9	5.0	5.0	4.8	5.0	5.0	22.1
Hydro	2.8	2.1	3.5	3.7	2.7	3.4	1.8	3.2	2.3	2.8	12.5
Biomass	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	2.8
Wind	3.7	4.3	4.8	4.5	4.2	4.2	4.2	4.4	4.8	4.8	21.3
Solar	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.3	1.8	7.8
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	89.5	85.2	81.7	79.3	80.5	82.8	84.7	86.8	85.7	75.1	100.0
Industry	21.3	20.7	20.6	20.0	18.9	18.7	20.3	20.8	20.1	18.5	24.7
Transport	32.1	29.6	28.0	28.2	29.2	30.3	31.4	32.2	32.5	25.7	34.2
Residential/Commercial	26.2	25.8	24.8	23.9	25.4	26.2	25.4	25.7	25.2	23.4	31.2
Oil final consumption, by sector	46.3	41.8	39.9	38.5	40.2	42.0	42.8	43.8	43.9	35.7	100.0
Industry	4.3	3.5	2.7	2.5	2.7	2.8	2.8	2.9	2.9	2.7	7.5
Transport	30.0	27.1	26.7	26.8	27.8	28.8	29.7	30.0	30.4	23.7	66.5
Residential/Commercial	4.2	4.0	4.2	3.9	4.0	4.0	3.9	4.1	4.0	3.0	8.5
Natural gas final consumption, by sector	14.4	14.9	15.2	14.7	13.5	13.8	13.9	14.7	13.9	13.5	100.0
Industry	7.7	8.4	9.0	8.8	6.9	6.5	7.6	8.3	7.9	7.7	56.8
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.9
Residential/Commercial	5.1	5.1	4.7	4.5	5.8	6.7	5.7	5.6	5.3	5.1	37.9
Refined products consumption	46.3	41.8	39.9	38.5	40.2	42.0	42.8	43.8	43.9	35.7	100.0
Gasoline	5.2	4.8	4.6	4.5	4.6	4.8	4.9	5.1	5.4	4.3	11.9
Diesel	27.5	25.2	25.7	25.5	26.9	27.4	27.9	28.2	28.3	24.1	67.4
Heating Oil	1.1	0.7	0.8	0.6	0.5	0.6	0.9	0.9	0.9	0.4	1.1
Aviation Jet	2.1	1.8	1.7	1.8	1.8	2.0	2.1	2.2	2.3	0.8	2.2
LPG	1.8	1.7	1.7	1.8	2.1	2.8	2.5	2.9	2.7	2.3	6.4
Imports	110.3	109.7	109.2	111.5	112.2	113.9	119.8	119.2	120.5	101.9	100.0
Oil	79.4	79.2	78.3	79.8	84.0	85.7	89.7	88.9	88.2	73.6	72.3
Gas	30.9	30.5	30.9	31.7	28.2	28.2	30.1	30.3	32.4	28.3	27.7
Gasoline	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.5	1.5	1.1	1.1
Diesel	8.7	6.8	4.7	3.9	4.7	4.9	5.2	4.8	5.0	4.9	4.8
Heating Oil	3.6	3.1	4.2	5.3	4.3	5.9	6.7	7.0	6.5	3.7	3.6
Aviation Jet	2.8	2.4	1.9	2.0	2.3	2.2	2.3	1.8	1.7	1.3	1.3
LPG	0.6	0.4	0.4	0.7	0.9	1.6	1.4	1.5	1.4	1.1	1.1
Exports	14.5	21.8	26.9	28.3	27.1	28.0	29.6	27.9	24.9	23.5	100.0
Oil	13.0	19.4	21.8	21.1	22.7	24.5	27.1	25.1	23.9	22.5	95.5
Gas	1.5	2.4	5.1	7.2	4.4	3.5	2.5	2.8	1.0	1.1	4.5
Gasoline	3.5	3.5	3.6	3.4	5.0	4.7	4.7	4.6	5.0	4.6	19.7
Diesel	2.4	6.3	5.5	5.2	5.5	5.5	6.7	6.2	6.1	6.5	27.8
Heating Oil	2.1	1.4	2.9	2.9	2.2	2.9	3.5	3.6	2.6	2.2	9.3
Aviation Jet	0.3	0.2	0.4	0.3	0.5	0.6	0.6	0.5	0.4	0.5	2.3
LPG	0.3	0.3	0.4	0.5	0.4	0.5	0.6	0.5	0.6	0.5	2.0
CO₂ Emissions (Million tons CO₂)	270.3	265.5	238.3	236.0	251.7	242.8	258.2	253.4	237.1	191.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	167.9	169.9	154.7	151.1	155.2	145.4	150.2	144.0	132.2	119.7	-
Final energy intensity (toe/million \$15ppp)	51.4	50.7	49.8	48.2	47.0	46.6	46.4	46.4	44.9	44.1	-
Total energy intensity (toe/million \$15ppp)	77.7	79.6	75.2	72.5	72.5	70.9	72.5	70.6	67.3	66.9	-

*Heat is included

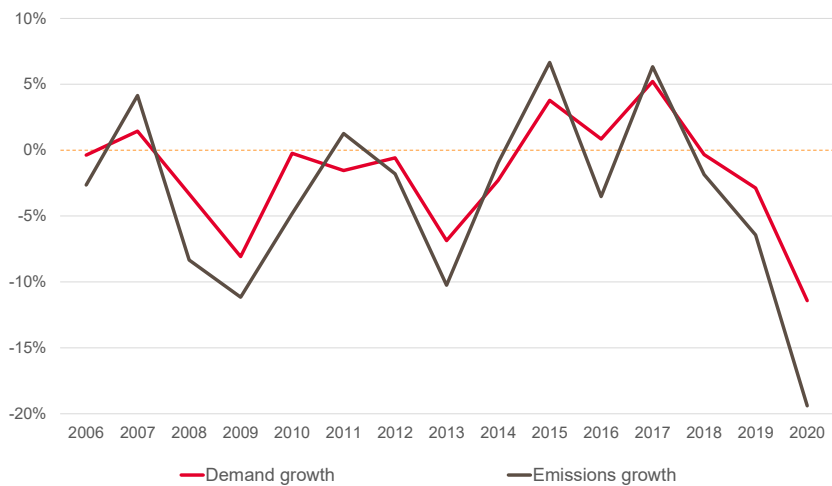
Primary energy demand mix



Electricity generation by source



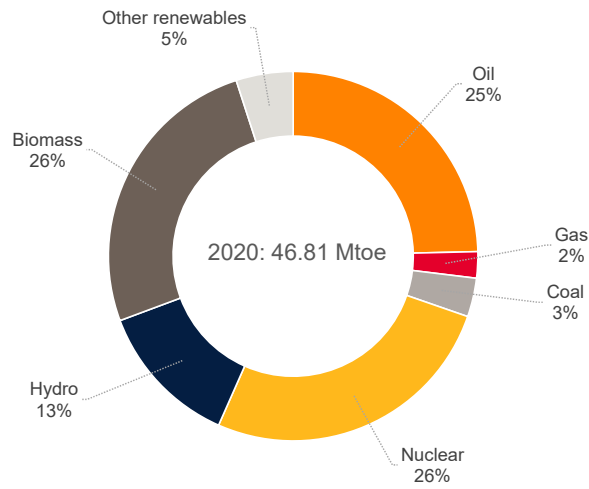
Primary energy demand and CO₂ emissions growth



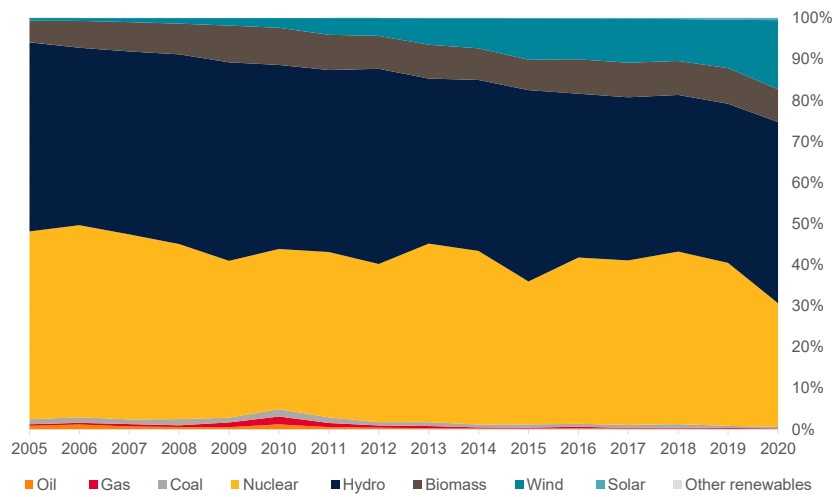
Sweden (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	49.6	50.1	49.3	48.1	44.4	47.7	49.1	49.7	48.8	46.8	100.0
Oil	13.7	12.6	11.9	11.6	8.8	10.2	10.0	10.4	10.0	12.0	25.6
Gas	1.2	1.0	1.0	0.8	0.7	0.8	0.9	1.0	1.0	1.1	2.4
Coal	2.5	2.2	2.2	2.1	2.1	2.1	2.0	2.2	1.9	1.7	3.5
Nuclear	15.8	16.7	17.3	16.9	14.7	16.4	17.1	17.9	17.5	12.8	27.4
Hydro	5.7	6.8	5.3	5.5	6.5	5.3	5.6	5.4	5.6	6.2	13.2
Biomass	10.6	11.6	11.4	11.3	11.8	12.4	13.3	12.8	13.1	12.5	26.7
Other renewables	0.5	0.6	0.8	1.0	1.4	1.3	1.5	1.5	1.8	2.4	5.2
Electricity balance of trade*	-0.4	-1.4	-0.7	-1.1	-1.7	-0.8	-1.4	-1.3	-2.1	-2.0	-4.2
Total final consumption, by source	33.7	33.8	33.3	32.5	32.8	33.6	34.0	33.4	32.9	31.6	100.0
Oil	10.9	10.3	10.2	9.8	9.5	9.6	9.6	9.0	8.7	7.8	24.9
Gas	0.7	0.7	0.6	0.6	0.7	0.6	0.9	0.9	0.9	1.0	3.3
Coal	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	3.6
Electricity	10.7	10.9	10.8	10.5	10.7	11.0	10.9	11.0	10.7	10.3	32.7
Heat	4.1	4.5	4.5	4.2	4.2	4.4	4.4	4.4	4.3	4.3	13.5
Biomass	6.0	6.1	6.0	6.1	6.5	6.7	6.9	6.9	7.0	7.0	22.0
Electricity generation, by source	12.9	14.3	13.2	13.2	13.9	13.4	14.1	14.1	14.5	14.1	100.0
Oil	0.1	0.1	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	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Coal	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Nuclear	5.2	5.5	5.7	5.6	4.8	5.4	5.6	5.9	5.8	4.2	30.1
Hydro	5.7	6.8	5.3	5.5	6.5	5.3	5.6	5.4	5.6	6.2	44.1
Biomass	1.1	1.1	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.1	8.0
Wind	0.5	0.6	0.8	1.0	1.4	1.3	1.5	1.4	1.7	2.4	16.8
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5
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	33.7	33.8	33.3	32.5	32.8	33.6	34.0	33.4	32.9	31.6	100.0
Industry	12.1	11.9	11.7	11.5	11.7	11.6	11.7	11.6	11.6	11.3	36.0
Transport	7.7	7.4	7.3	7.3	7.5	7.5	7.7	7.5	7.4	6.6	20.9
Residential/Commercial	11.3	11.9	11.4	11.0	11.2	11.6	11.5	11.4	11.2	10.9	34.4
Oil final consumption, by sector	10.9	10.3	10.2	9.8	9.5	9.6	9.6	9.0	8.7	7.8	100.0
Industry	1.3	1.2	1.1	1.0	0.9	0.9	0.9	1.0	0.9	0.8	10.1
Transport	6.9	6.6	6.4	6.2	6.3	6.0	5.9	5.6	5.6	4.9	62.1
Residential/Commercial	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	3.0
Natural gas final consumption, by sector	0.7	0.7	0.6	0.6	0.7	0.6	0.9	0.9	0.9	1.0	100.0
Industry	0.3	0.4	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	39.4
Transport	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Residential/Commercial	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	12.3
Refined products consumption	10.9	10.3	10.2	9.8	9.5	9.6	9.6	9.0	8.7	7.8	100.0
Gasoline	3.2	2.9	2.8	2.6	2.6	2.5	2.4	2.2	2.2	1.7	22.2
Diesel	4.6	4.5	4.4	4.3	4.4	4.2	4.2	4.0	4.1	3.8	49.0
Heating Oil	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	3.2
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.9
LPG	1.1	0.9	1.1	1.0	1.0	1.2	1.1	0.9	0.9	0.5	6.6
Imports	28.7	28.9	25.3	27.8	29.1	31.7	30.5	30.6	26.5	28.9	100.0
Oil	27.5	27.9	24.3	27.1	28.4	30.9	29.5	29.5	25.5	27.7	96.0
Gas	1.2	1.0	1.0	0.8	0.7	0.8	0.9	1.0	1.0	1.2	4.0
Gasoline	1.6	1.2	1.3	1.9	1.8	2.0	1.6	0.8	0.6	0.9	3.1
Diesel	2.2	2.1	2.2	2.4	2.6	3.1	3.0	2.3	2.5	3.1	10.6
Heating Oil	1.2	0.7	0.7	0.4	0.7	2.0	1.5	1.7	0.8	0.8	2.6
Aviation Jet	0.8	0.7	0.6	0.9	0.8	1.0	1.0	1.1	1.0	0.6	2.2
LPG	1.3	0.9	1.1	1.2	1.1	1.5	1.3	1.2	1.4	1.2	4.1
Exports	11.6	13.6	10.0	12.8	15.3	17.0	18.1	17.2	11.4	10.5	100.0
Oil	11.6	13.6	10.0	12.8	15.3	17.0	18.0	17.2	11.4	10.5	99.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Gasoline	2.4	3.0	2.1	3.7	4.1	3.8	4.0	3.7	2.0	1.5	14.2
Diesel	4.0	5.2	3.6	4.9	5.7	5.4	7.1	6.5	3.9	3.7	35.3
Heating Oil	3.2	3.1	2.2	1.7	2.7	4.3	4.0	4.2	2.5	2.1	20.2
Aviation Jet	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.3
LPG	0.3	0.6	0.3	0.4	0.6	0.8	0.7	0.6	0.8	0.8	7.4
CO₂ Emissions (Million tons CO₂)	44.8	42.0	40.6	39.2	39.0	39.0	39.1	36.6	36.1	32.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	100.7	95.0	90.7	85.4	81.2	79.4	77.6	71.1	69.2	63.7	-
Final energy intensity (toe/million \$15ppp)	71.4	72.3	69.8	66.4	64.7	64.0	62.6	60.6	59.2	58.2	-
Total energy intensity (toe/million \$15ppp)	111.3	113.2	110.2	104.6	92.4	97.1	97.5	96.7	93.8	92.5	-

*Heat is included

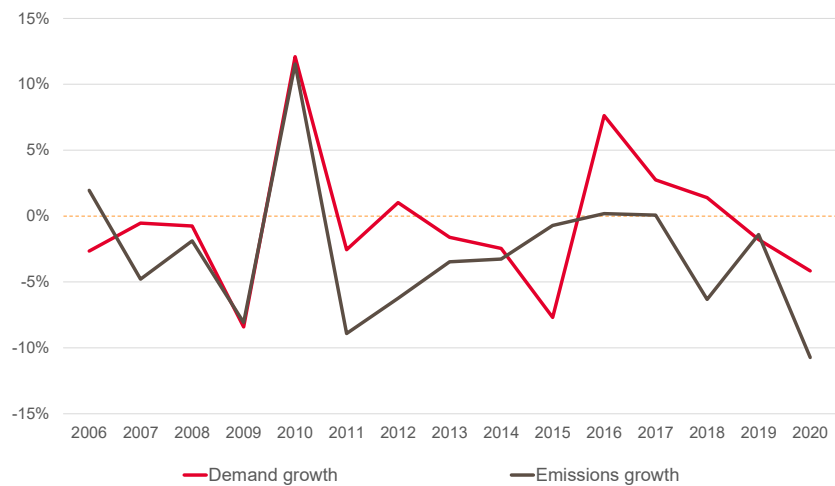
Primary energy demand mix



Electricity generation by source



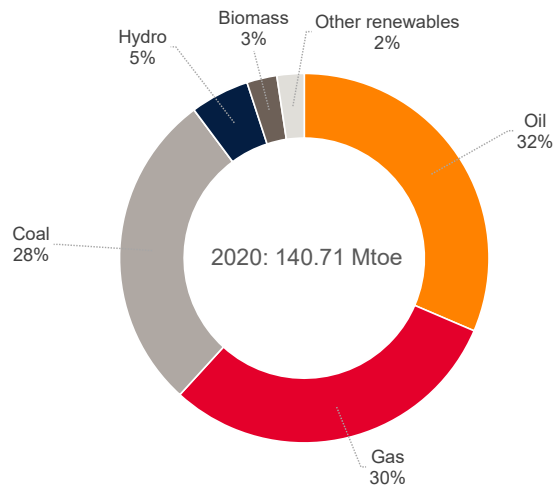
Primary energy demand and CO₂ emissions growth



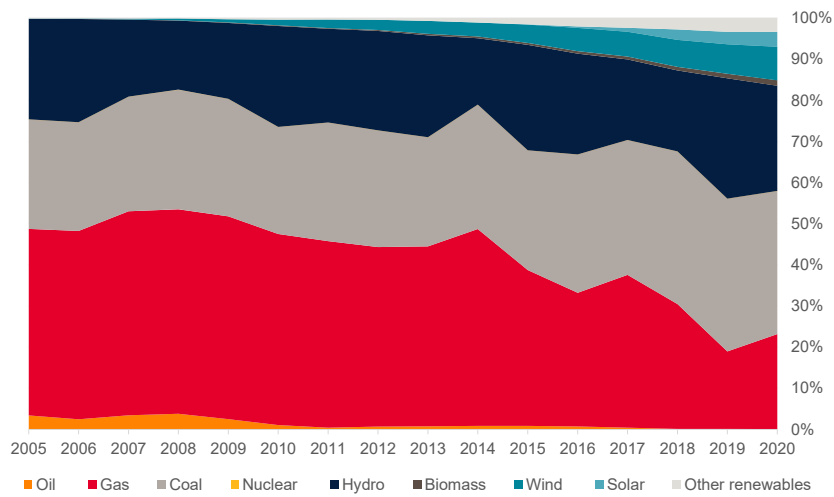
Turkey (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	112.5	117.8	115.1	119.2	129.1	136.9	147.0	144.4	144.7	140.7	100.0
Oil	31.7	33.5	33.7	33.0	39.1	42.6	44.9	42.5	41.6	41.0	29.1
Gas	36.8	37.3	37.6	40.2	39.4	38.3	44.2	41.0	37.0	39.5	28.1
Coal	32.7	34.6	30.3	33.4	34.5	38.3	40.1	40.8	41.9	36.6	26.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	5.0	5.1	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8
Biomass	3.6	3.7	3.9	3.5	3.2	3.1	3.0	3.2	3.4	3.4	2.4
Other renewables	0.4	0.5	0.6	0.7	1.0	1.4	1.8	2.4	2.7	3.1	2.2
Electricity balance of trade*	2.8	3.3	4.0	4.8	6.1	7.3	8.0	9.2	10.5	10.4	7.4
Total final consumption, by source	83.6	87.8	87.3	87.7	95.5	99.6	106.8	104.7	105.5	107.1	100.0
Oil	28.2	29.8	31.1	30.5	35.1	37.5	39.9	39.2	38.6	38.1	35.6
Gas	17.5	18.0	18.8	19.4	21.2	21.5	24.8	24.6	26.1	26.5	24.8
Coal	15.2	16.4	13.4	13.4	14.2	14.7	14.8	12.7	12.7	14.3	13.4
Electricity	15.8	16.6	16.9	17.7	18.4	19.6	21.1	21.9	21.8	21.8	20.4
Heat	3.3	3.5	3.5	3.5	3.7	3.6	3.7	3.8	3.8	3.8	3.6
Biomass	3.5	3.5	3.7	3.3	2.9	2.7	2.5	2.5	2.5	2.4	2.3
Electricity generation, by source	19.7	20.6	20.7	21.7	22.5	23.6	25.6	26.2	26.1	26.3	100.0
Oil	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.1
Gas	8.9	9.0	9.0	10.4	8.5	7.7	9.5	8.0	4.9	6.1	23.1
Coal	5.7	5.8	5.5	6.6	6.6	7.9	8.4	9.7	9.7	9.1	34.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	5.0	5.1	3.5	5.8	5.8	5.0	5.2	7.6	6.7	25.6
Biomass	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	1.3
Wind	0.4	0.5	0.6	0.7	1.0	1.3	1.5	1.7	1.9	2.1	8.2
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.7	0.8	1.0	3.6
Other renewables	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.7	0.9	0.9	3.3
Total final consumption, by sector	83.6	87.8	87.3	87.7	95.5	99.6	106.8	104.7	105.5	107.1	100.0
Industry	26.5	27.8	26.1	27.3	28.4	28.6	34.6	34.9	33.2	35.2	32.8
Transport	14.8	17.1	19.4	20.3	24.0	26.2	27.3	27.6	26.8	25.3	23.7
Residential/Commercial	30.7	31.2	30.4	30.2	32.3	33.1	35.7	33.1	35.3	35.9	33.5
Oil final consumption, by sector	28.2	29.8	31.1	30.5	35.1	37.5	39.9	39.2	38.6	38.1	100.0
Industry	1.4	1.6	1.0	0.8	1.0	0.8	4.3	4.2	3.7	4.1	10.8
Transport	14.7	16.9	18.9	20.0	23.8	26.0	27.1	27.3	26.5	25.1	65.8
Residential/Commercial	1.3	0.9	1.0	0.9	1.0	0.9	1.1	1.0	1.0	0.9	2.4
Natural gas final consumption, by sector	17.5	18.0	18.8	19.4	21.2	21.5	24.8	24.6	26.1	26.5	100.0
Industry	7.9	8.0	8.0	8.8	9.0	8.6	10.3	9.7	9.0	9.3	34.9
Transport	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Residential/Commercial	9.3	9.5	10.4	10.1	11.7	12.1	13.9	13.7	15.7	16.0	60.2
Refined products consumption	28.2	29.8	31.1	30.5	35.1	37.5	39.9	39.2	38.6	38.1	100.0
Gasoline	2.0	1.9	2.0	2.0	2.1	2.3	2.3	2.3	2.4	2.3	6.1
Diesel	15.4	16.0	16.7	17.8	20.2	21.8	23.5	23.2	22.5	21.9	57.4
Heating Oil	0.6	0.7	0.7	0.5	0.5	0.2	0.3	0.3	0.4	0.3	0.8
Aviation Jet	0.3	0.4	0.8	1.0	1.2	1.4	1.2	1.3	1.2	0.7	1.9
LPG	4.0	4.0	4.1	4.1	4.4	4.6	4.5	4.6	4.6	4.3	11.3
Imports	73.7	78.7	77.9	81.4	89.6	88.9	98.9	90.6	90.5	88.4	100.0
Oil	37.6	40.9	40.7	40.9	49.7	50.7	53.4	49.2	53.3	48.9	55.3
Gas	36.1	37.8	37.3	40.6	39.9	38.2	45.5	41.4	37.2	39.5	44.7
Gasoline	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	10.3	11.2	11.8	13.1	12.7	13.1	14.6	15.0	11.1	8.8	10.0
Heating Oil	0.6	0.9	0.7	1.1	1.6	1.6	2.0	2.3	2.0	1.9	2.2
Aviation Jet	0.6	0.6	0.5	0.9	0.2	0.3	0.2	0.5	0.4	0.1	0.1
LPG	3.3	3.3	3.4	3.4	3.8	3.8	3.7	3.6	3.6	3.5	4.0
Exports	8.1	8.3	8.0	7.5	8.1	7.0	7.3	5.6	8.8	7.8	100.0
Oil	7.5	7.8	7.5	7.0	7.6	6.5	6.8	5.0	8.2	7.3	92.9
Gas	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.6	7.1
Gasoline	2.5	2.8	2.6	2.2	3.3	3.0	3.3	2.6	3.1	2.0	25.2
Diesel	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	1.3	2.4	31.3
Heating Oil	2.1	1.2	1.8	2.5	2.4	1.6	1.4	1.1	1.8	0.2	2.3
Aviation Jet	2.1	2.5	2.1	1.0	0.3	0.2	0.3	0.1	0.7	0.6	7.9
LPG	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.1	0.1	0.2	1.9
CO₂ Emissions (Million tons CO₂)	294.3	306.0	294.9	316.3	329.0	349.3	386.6	383.4	373.7	354.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	185.5	184.0	163.5	166.8	163.5	168.2	173.3	167.1	161.4	150.2	-
Final energy intensity (toe/million \$15ppp)	48.8	48.5	44.5	43.4	44.1	44.2	45.7	43.6	43.2	42.9	-
Total energy intensity (toe/million \$15ppp)	70.9	70.9	63.8	62.8	64.2	65.9	65.9	62.9	62.5	59.7	-

*Heat is included

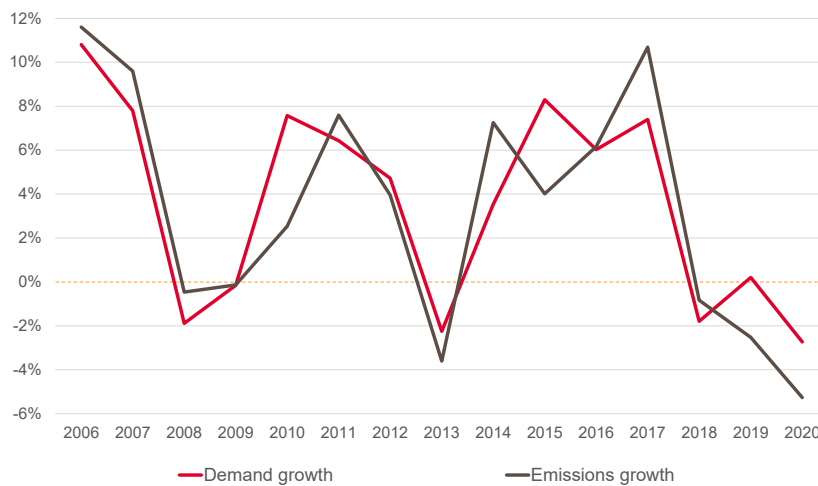
Primary energy demand mix



Electricity generation by source



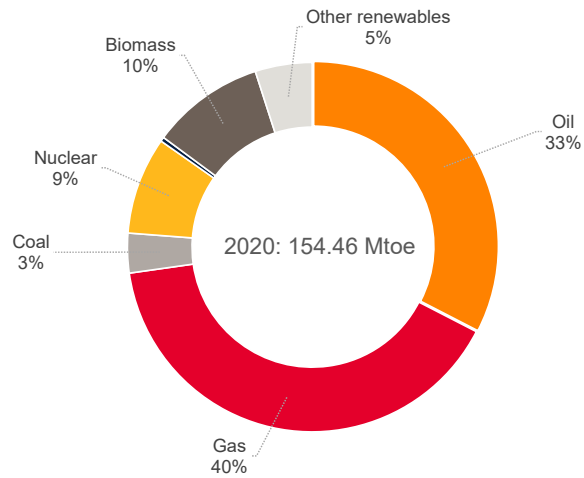
Primary energy demand and CO₂ emissions growth



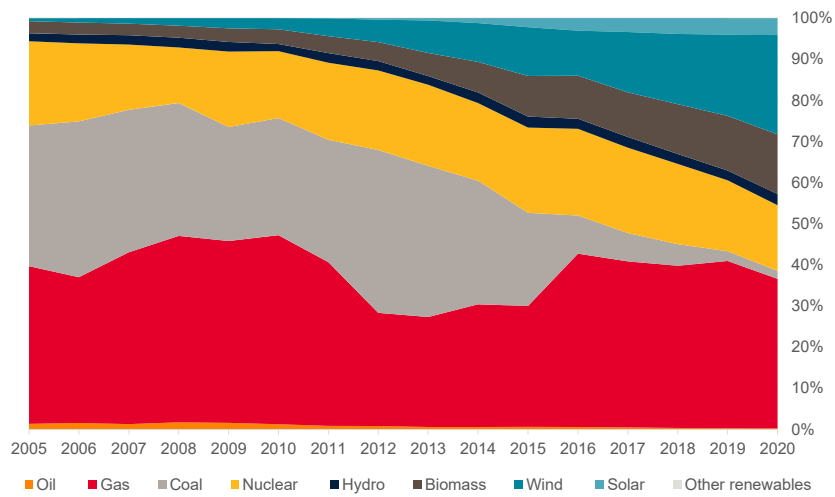
United Kingdom (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	188.8	193.8	191.0	180.0	181.7	178.7	176.1	175.2	170.2	154.5	100.0
Oil	60.4	59.6	57.1	58.3	60.2	61.1	61.7	60.5	59.1	49.8	32.2
Gas	70.3	66.4	65.8	59.9	61.9	69.1	67.3	67.8	66.9	61.4	39.8
Coal	30.7	39.0	37.3	30.2	23.9	11.7	9.5	8.0	5.8	5.3	3.4
Nuclear	18.0	18.3	18.4	16.6	18.3	18.7	18.3	17.0	14.6	13.0	8.4
Hydro	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.4
Biomass	6.9	7.3	8.2	9.6	10.9	11.9	12.2	13.8	14.8	15.1	9.8
Other renewables	1.4	1.8	2.6	3.1	4.1	4.1	5.3	6.0	6.7	7.6	4.9
Electricity balance of trade*	0.6	1.1	1.3	1.8	1.9	1.6	1.3	1.7	1.9	1.6	1.0
Total final consumption, by source	127.5	130.3	131.5	124.2	128.1	129.5	128.9	129.9	126.5	115.6	100.0
Oil	53.3	52.3	51.6	52.0	54.0	55.3	56.2	55.1	53.7	45.1	39.0
Gas	38.9	42.4	42.8	36.1	38.2	39.1	38.3	39.8	37.9	37.0	32.0
Coal	4.1	4.3	5.3	5.2	4.8	3.6	3.4	3.3	3.2	3.1	2.7
Electricity	27.3	27.4	27.2	26.1	26.1	26.2	25.8	25.8	25.3	24.1	20.9
Heat	1.2	1.3	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.1
Biomass	2.7	2.7	3.4	3.6	3.7	3.9	4.0	4.7	5.1	4.9	4.3
Electricity generation, by source	31.6	31.3	30.8	29.1	29.2	29.2	29.1	28.7	28.0	26.9	100.0
Oil	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3
Gas	12.6	8.6	8.2	8.7	8.6	12.3	11.8	11.3	11.4	9.8	36.3
Coal	9.4	12.4	11.3	8.7	6.6	2.7	2.0	1.5	0.7	0.5	2.0
Nuclear	5.9	6.1	6.1	5.5	6.0	6.2	6.0	5.6	4.8	4.3	16.0
Hydro	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.7	2.7
Biomass	1.3	1.4	1.7	2.2	2.9	3.1	3.2	3.5	3.7	3.9	14.5
Wind	1.4	1.7	2.4	2.7	3.5	3.2	4.3	4.9	5.5	6.5	24.1
Solar	0.0	0.1	0.2	0.3	0.6	0.9	1.0	1.1	1.1	1.1	4.1
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	127.5	130.3	131.5	124.2	128.1	129.5	128.9	129.9	126.5	115.6	100.0
Industry	25.5	25.2	25.8	24.9	25.1	22.6	22.9	22.8	22.1	20.4	17.6
Transport	39.6	39.3	39.1	39.7	40.5	41.4	41.5	41.4	41.1	33.4	28.9
Residential/Commercial	53.7	57.9	58.7	51.5	54.1	56.1	54.8	56.2	54.3	53.5	46.3
Oil final consumption, by sector	53.3	52.3	51.6	52.0	54.0	55.3	56.2	55.1	53.7	45.1	100.0
Industry	4.1	4.2	3.7	3.7	3.8	2.0	2.4	2.0	1.8	1.5	3.4
Transport	38.2	38.0	37.7	38.1	39.2	40.0	40.2	39.7	39.0	31.3	69.5
Residential/Commercial	3.5	3.4	3.5	3.6	3.7	4.9	4.9	4.9	4.9	4.9	10.9
Natural gas final consumption, by sector	38.9	42.4	42.8	36.1	38.2	39.1	38.3	39.8	37.9	37.0	100.0
Industry	8.1	7.9	8.1	7.6	7.6	7.8	8.0	8.2	7.9	7.3	19.8
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	30.3	33.9	34.2	27.9	30.2	30.9	29.8	31.2	29.6	29.3	79.0
Refined products consumption	53.3	52.3	51.6	52.0	54.0	55.3	56.2	55.1	53.7	45.1	100.0
Gasoline	14.6	13.9	13.2	13.0	12.7	12.6	12.4	12.2	12.3	9.7	21.6
Diesel	25.5	26.5	26.4	27.1	28.7	29.7	30.1	29.8	28.7	23.6	52.4
Heating Oil	0.5	0.3	0.2	0.3	0.3	0.3	0.5	0.3	0.2	0.1	0.3
Aviation Jet	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.4	0.8
LPG	3.4	2.7	2.5	2.6	3.1	3.2	3.2	3.4	3.0	3.1	6.8
Imports	129.2	132.1	131.2	122.3	123.6	127.0	130.2	130.1	127.8	104.7	100.0
Oil	83.0	89.3	89.6	85.4	85.2	86.3	90.2	90.1	87.7	66.7	63.7
Gas	46.2	42.9	41.6	36.9	38.3	40.8	40.0	40.0	40.1	38.0	36.3
Gasoline	3.4	4.4	4.7	3.7	4.1	4.1	3.4	3.6	3.1	3.0	2.9
Diesel	9.2	11.1	11.2	13.1	15.1	17.0	15.9	16.5	15.3	11.8	11.2
Heating Oil	0.8	0.6	0.6	1.0	1.0	1.2	0.9	0.7	0.7	0.7	0.6
Aviation Jet	7.1	7.3	8.4	8.4	8.5	9.0	9.3	9.6	9.9	5.7	5.5
LPG	0.2	0.3	0.5	0.5	0.8	1.0	1.1	1.4	1.1	0.7	0.7
Exports	76.7	72.6	69.4	64.1	70.1	69.8	73.0	75.3	74.5	68.0	100.0
Oil	63.0	62.5	61.7	55.2	58.3	60.9	63.4	68.9	67.6	59.8	88.1
Gas	13.7	10.2	7.7	9.0	11.9	8.9	9.6	6.4	6.8	8.1	11.9
Gasoline	9.8	11.6	11.4	9.1	10.9	11.7	11.5	10.8	9.9	8.1	11.9
Diesel	7.9	7.8	6.3	5.5	4.7	5.0	3.9	4.4	4.3	4.2	6.2
Heating Oil	4.9	5.4	4.5	4.0	3.2	3.2	2.9	2.4	2.1	2.6	3.9
Aviation Jet	1.2	1.4	1.0	1.1	1.2	1.3	1.3	1.6	1.5	1.2	1.8
LPG	0.9	1.3	1.3	1.0	0.9	1.1	1.2	1.0	1.0	0.5	0.8
CO₂ Emissions (Million tons CO₂)	446.1	467.8	455.1	414.5	402.4	379.2	367.0	359.2	346.6	304.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	175.4	181.2	172.7	153.3	145.4	134.4	127.7	123.2	117.2	114.2	-
Final energy intensity (toe/million \$15ppp)	47.1	47.8	47.3	43.4	43.6	43.1	42.0	41.8	40.3	40.8	-
Total energy intensity (toe/million \$15ppp)	74.2	75.1	72.5	66.5	65.6	63.3	61.3	60.1	57.6	58.0	-

*Heat is included

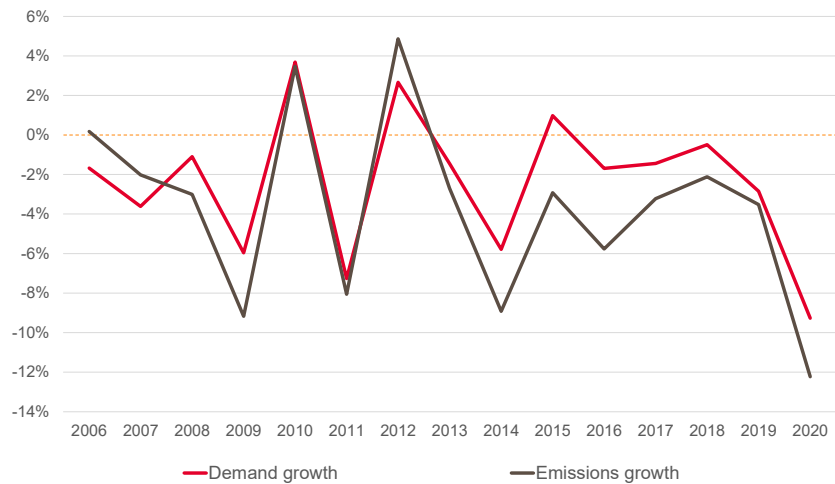
Primary energy demand mix



Electricity generation by source

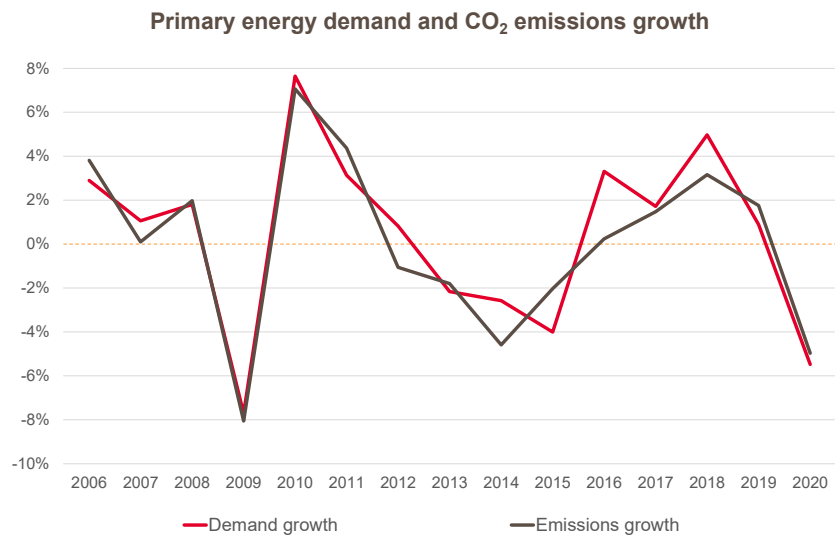
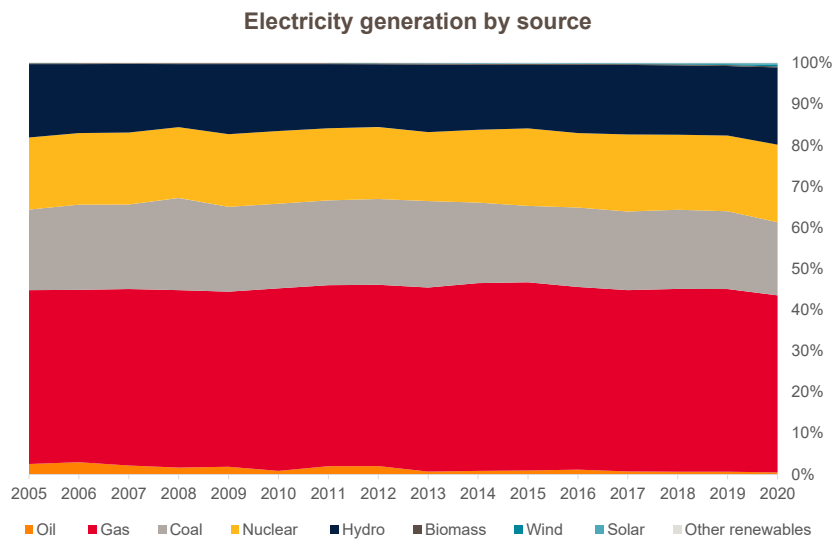
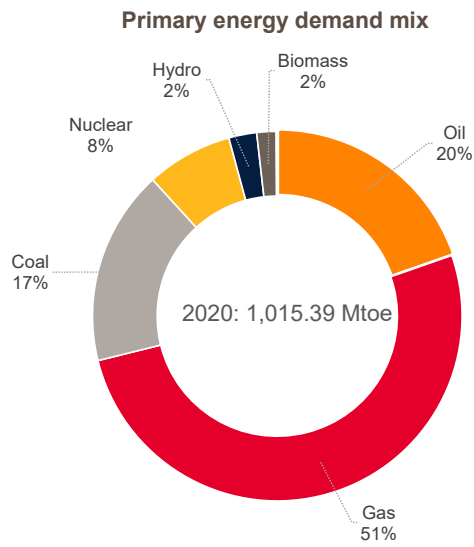


Primary energy demand and CO₂ emissions growth



Former Soviet Union (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	1,046.4	1,055.0	1,032.2	1,005.6	965.3	997.3	1,014.4	1,064.8	1,074.3	1,015.4	100.0
Oil	200.6	209.9	199.6	199.6	192.8	210.6	209.9	209.7	212.0	199.9	19.7
Gas	562.0	542.9	540.6	522.1	487.8	499.4	513.7	551.6	558.4	522.8	51.5
Coal	185.2	201.8	191.8	181.2	178.1	179.6	179.7	191.5	188.8	173.7	17.1
Nuclear	69.3	70.4	67.3	70.8	74.5	73.0	75.9	75.8	76.7	76.7	7.6
Hydro	20.1	20.1	21.6	20.6	19.8	21.8	22.3	22.8	23.0	24.9	2.4
Biomass	11.4	11.8	11.9	11.8	12.6	13.8	13.8	14.7	16.4	17.1	1.7
Other renewables	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	1.0	0.1
Electricity balance of trade*	-2.1	-1.8	-0.6	-0.7	-0.5	-1.1	-1.1	-1.7	-1.6	-0.7	-0.1
Total final consumption, by source	641.3	635.4	619.9	623.8	608.8	623.9	647.9	676.8	678.5	662.4	100.0
Oil	149.8	151.3	157.2	159.3	159.9	159.5	167.4	172.6	174.6	169.0	25.5
Gas	181.8	169.6	165.5	172.0	168.9	179.0	193.9	211.3	214.5	212.5	32.1
Coal	63.8	66.6	63.6	62.3	58.0	59.0	57.3	59.5	58.0	54.8	8.3
Electricity	89.4	91.0	91.3	90.6	90.0	90.9	93.3	94.6	95.4	93.9	14.2
Heat	151.1	151.3	136.6	133.9	125.8	128.3	128.6	131.0	127.3	123.2	18.6
Biomass	5.4	5.6	5.8	5.7	6.3	7.2	7.3	7.9	8.6	8.9	1.4
Electricity generation, by source	130.2	132.7	132.3	131.8	130.4	132.9	133.7	137.0	137.5	133.9	100.0
Oil	2.6	2.7	0.9	1.1	1.2	1.5	0.9	0.9	0.9	0.7	0.5
Gas	57.3	58.5	59.2	60.2	59.7	59.1	58.9	60.9	61.1	57.6	43.0
Coal	26.8	27.7	27.8	25.8	24.2	25.6	25.6	26.3	26.0	23.8	17.8
Nuclear	22.9	23.2	22.2	23.4	24.6	24.1	25.1	25.0	25.3	25.3	18.9
Hydro	20.3	20.2	21.8	20.8	20.1	22.1	22.6	23.1	23.3	25.1	18.8
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3
Wind	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.3
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4	0.6	0.4
Other renewables	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	641.3	635.4	619.9	623.8	608.8	623.9	647.9	676.8	678.5	662.4	100.0
Industry	223.4	227.5	214.5	210.7	202.9	213.1	213.8	203.5	203.3	197.0	29.7
Transport	92.7	93.7	94.7	94.6	92.2	91.6	92.9	101.5	102.7	95.9	14.5
Residential/Commercial	236.8	224.4	223.9	229.5	224.3	228.6	242.8	264.2	262.4	259.9	39.2
Oil final consumption, by sector	149.8	151.3	157.2	159.3	159.9	159.5	167.4	172.6	174.6	169.0	100.0
Industry	15.4	15.2	18.7	17.4	19.6	21.3	20.8	11.4	11.7	11.9	7.0
Transport	85.1	85.9	87.0	86.5	84.5	83.9	85.6	90.2	90.9	84.5	50.0
Residential/Commercial	11.3	10.9	12.8	14.1	14.5	13.6	16.8	20.3	20.4	20.7	12.3
Natural gas final consumption, by sector	181.8	169.6	165.5	172.0	168.9	179.0	193.9	211.3	214.5	212.5	100.0
Industry	50.5	50.9	48.8	50.7	47.2	48.6	51.1	50.3	51.4	50.3	23.7
Transport	0.6	0.6	0.7	1.1	1.1	1.2	1.2	4.9	5.3	5.2	2.5
Residential/Commercial	89.8	78.0	77.8	82.3	81.3	88.9	96.3	106.8	106.8	106.7	50.2
Refined products consumption	148.1	150.8	153.7	158.8	159.2	158.8	166.7	172.5	174.6	168.9	100.0
Gasoline	50.3	52.0	52.4	52.6	51.0	50.7	48.9	50.4	49.5	46.3	27.4
Diesel	44.3	41.9	43.2	45.2	46.1	44.4	47.4	49.5	52.5	52.3	31.0
Heating Oil	4.9	4.6	4.0	3.8	3.7	2.8	3.3	3.4	2.8	2.5	1.5
Aviation Jet	7.1	7.2	6.6	6.2	5.5	5.4	6.0	6.4	6.4	3.6	2.1
LPG	15.8	16.7	19.0	20.6	21.0	21.5	23.5	27.4	27.5	26.7	15.8
Imports	123.0	114.7	104.1	92.6	93.6	84.4	89.6	91.5	88.5	73.3	100.0
Oil	54.1	54.8	48.1	43.4	46.3	40.5	41.8	42.1	39.7	38.3	52.3
Gas	68.9	59.9	56.0	49.3	47.3	43.9	47.8	49.4	48.8	35.0	47.7
Gasoline	5.6	5.6	5.4	6.4	5.5	5.1	4.3	3.8	3.0	2.9	3.9
Diesel	9.9	10.7	7.1	7.5	7.4	8.4	9.0	8.7	9.0	9.5	13.0
Heating Oil	2.7	3.6	0.3	0.3	0.7	0.7	0.7	0.3	0.2	0.2	0.3
Aviation Jet	0.4	0.4	0.4	0.4	0.4	0.6	0.7	0.7	0.5	0.2	0.3
LPG	0.7	0.8	0.9	1.1	1.3	1.9	2.2	2.3	2.4	2.5	3.5
Exports	726.1	724.6	749.9	725.7	760.4	757.5	781.3	813.5	823.9	757.4	100.0
Oil	507.7	502.3	507.3	492.6	514.6	504.0	511.2	521.2	524.3	479.2	63.3
Gas	218.4	222.3	242.6	233.1	245.8	253.5	270.1	292.3	299.7	278.1	36.7
Gasoline	8.3	7.6	8.5	8.1	9.2	9.4	8.3	7.9	8.5	10.0	1.3
Diesel	50.1	53.4	51.2	50.4	48.0	45.7	47.3	48.2	45.7	45.5	6.0
Heating Oil	64.7	64.8	71.4	72.6	75.0	57.0	54.4	56.4	56.9	50.8	6.7
Aviation Jet	0.1	0.2	2.4	3.1	3.0	3.0	2.9	3.4	3.4	2.8	0.4
LPG	5.2	5.3	5.8	6.7	6.8	7.9	7.9	8.2	7.5	5.8	0.8
CO₂ Emissions (Million tons CO₂)	2,495.2	2,468.7	2,424.2	2,313.0	2,266.0	2,271.4	2,304.8	2,377.6	2,419.3	2,299.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	504.3	482.0	462.1	437.3	437.4	435.1	431.9	433.4	431.5	425.3	-
Final energy intensity (toe/million \$15ppp)	116.3	111.0	105.9	105.5	104.5	106.4	106.9	107.3	104.9	105.9	-
Total energy intensity (toe/million \$15ppp)	211.5	206.0	196.8	190.1	186.3	191.0	190.1	194.1	191.6	187.8	-

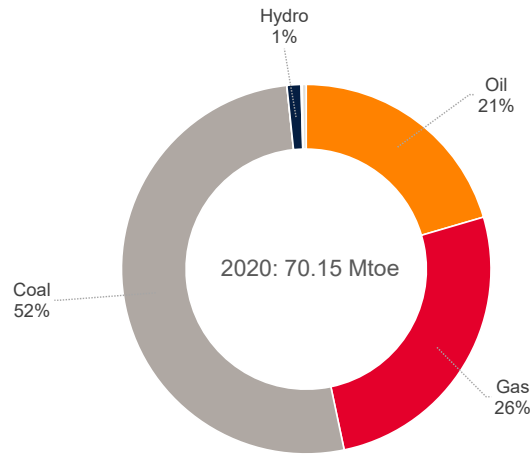
*Heat is included



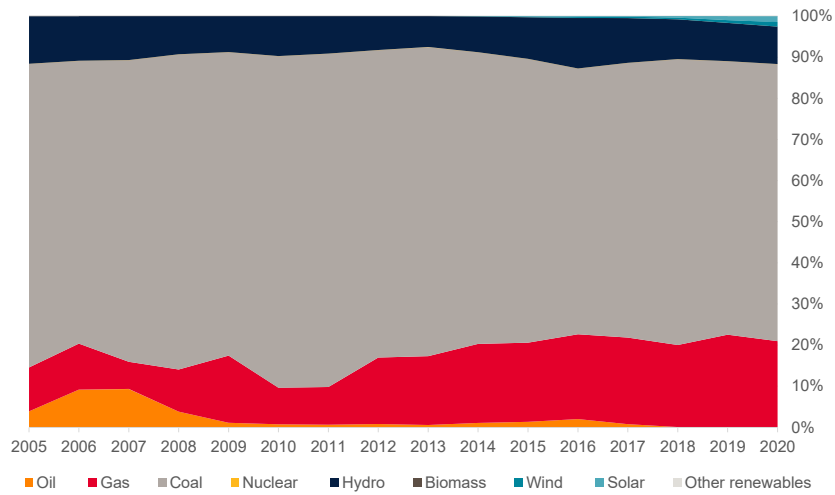
Kazakhstan (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	77.3	73.8	81.5	65.4	55.2	64.5	65.6	75.8	76.8	70.1	100.0
Oil	14.3	12.9	18.0	13.0	16.3	17.2	15.9	18.9	19.0	14.4	20.5
Gas	24.4	22.3	25.4	14.8	10.6	14.3	14.0	18.6	20.2	18.4	26.3
Coal	37.8	37.9	37.5	37.0	27.3	31.9	35.0	37.5	36.5	36.2	51.7
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	0.7	0.7	0.7	0.8	1.0	1.0	0.9	0.9	0.9	1.2
Biomass	0.0	0.0	0.0	0.0	0.1	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	0.1	0.2	0.2	0.3
Electricity balance of trade*	0.1	0.1	-0.1	-0.2	0.0	-0.1	-0.4	-0.3	-0.1	-0.1	-0.1
Total final consumption, by source	43.7	42.6	43.7	40.8	39.7	40.3	41.7	42.9	42.7	42.0	100.0
Oil	11.1	10.0	13.6	10.4	12.7	13.2	12.8	12.1	12.2	11.9	28.4
Gas	3.2	2.9	2.9	4.7	4.7	5.2	5.6	5.6	5.9	5.5	13.1
Coal	16.9	17.0	15.2	12.9	9.8	9.7	10.6	10.9	10.2	9.9	23.6
Electricity	5.8	6.1	5.9	6.0	6.1	6.1	6.7	7.2	7.4	7.6	18.1
Heat	6.7	6.7	6.1	6.8	6.4	5.9	5.9	7.1	7.0	7.0	16.8
Biomass	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electricity generation, by source	7.4	8.0	8.9	8.2	7.9	8.1	8.9	9.3	9.2	9.5	100.0
Oil	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.1
Gas	0.7	1.3	1.5	1.6	1.5	1.7	1.9	1.8	2.1	2.0	20.9
Coal	6.0	6.0	6.7	5.8	5.4	5.3	5.9	6.4	6.1	6.4	67.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.7	0.7	0.7	0.8	1.0	1.0	0.9	0.9	0.9	9.1
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	0.1	0.1	1.1
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	43.7	42.6	43.7	40.8	39.7	40.3	41.7	42.9	42.7	42.0	100.0
Industry	24.8	23.7	25.1	19.0	17.1	17.6	17.8	16.9	16.5	16.4	39.1
Transport	5.0	5.3	5.0	5.3	5.6	5.9	5.6	6.4	6.5	5.9	14.2
Residential/Commercial	11.4	9.9	10.7	13.7	14.6	14.3	15.8	16.6	16.6	16.6	39.5
Oil final consumption, by sector	11.1	10.0	13.6	10.4	12.7	13.2	12.8	12.1	12.2	11.9	100.0
Industry	3.2	2.2	5.1	2.0	3.6	4.4	4.0	2.3	2.2	2.4	20.2
Transport	4.6	4.9	4.6	4.7	5.0	5.2	4.9	5.7	5.7	5.2	43.8
Residential/Commercial	2.3	1.7	2.7	2.5	2.9	2.6	2.7	3.0	3.2	3.2	27.1
Natural gas final consumption, by sector	3.2	2.9	2.9	4.7	4.7	5.2	5.6	5.6	5.9	5.5	100.0
Industry	1.5	1.5	1.6	1.8	1.3	1.4	1.9	1.4	1.5	1.3	23.4
Transport	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	5.0
Residential/Commercial	1.6	1.2	1.1	2.6	3.1	3.4	3.3	3.5	3.7	3.7	67.0
Refined products consumption	9.5	9.6	10.2	10.1	12.2	12.6	12.2	12.1	12.2	11.9	100.0
Gasoline	3.8	4.0	4.0	4.0	4.4	4.7	4.6	4.8	4.8	4.3	36.1
Diesel	3.5	3.3	3.9	3.9	4.6	5.5	4.8	4.8	5.1	5.0	42.3
Heating Oil	1.1	1.0	0.9	0.8	1.5	0.8	0.9	0.7	0.5	0.5	3.8
Aviation Jet	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	1.1
LPG	0.5	0.4	0.5	0.5	0.8	0.8	0.9	1.1	1.2	1.2	9.9
Imports	9.7	12.1	14.6	6.6	6.6	7.8	7.6	10.0	7.9	5.5	100.0
Oil	5.9	8.5	10.2	2.9	1.9	2.0	2.1	1.7	0.7	1.1	20.5
Gas	3.8	3.6	4.3	3.7	4.7	5.9	5.5	8.3	7.2	4.4	79.5
Gasoline	0.7	1.3	1.2	1.2	1.4	1.2	1.1	0.6	0.0	0.0	0.0
Diesel	0.2	0.5	0.6	0.6	0.2	0.4	0.5	0.5	0.3	0.7	12.1
Heating Oil	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Aviation Jet	0.1	0.1	0.0	0.0	0.1	0.2	0.3	0.2	0.0	0.0	0.4
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	81.4	86.6	85.7	90.9	86.0	84.4	98.3	100.1	96.4	92.1	100.0
Oil	76.3	77.6	77.1	73.8	68.7	65.9	75.7	77.0	76.9	77.0	83.6
Gas	5.1	9.0	8.6	17.0	17.3	18.5	22.5	23.0	19.6	15.2	16.4
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.6
Diesel	1.0	1.8	1.8	1.8	0.2	0.1	0.1	0.2	0.0	0.1	0.1
Heating Oil	2.7	2.5	2.4	2.6	1.9	1.8	2.1	2.9	2.5	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	1.8	1.8	1.8	2.4	2.2	2.1	2.2	2.0	2.0	2.1	2.3
CO₂ Emissions (Million tons CO₂)	231.8	234.2	251.2	202.8	193.7	211.8	213.5	208.2	207.4	206.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	609.8	587.9	594.9	461.1	435.0	470.5	455.7	426.9	407.0	415.8	-
Final energy intensity (toe/million \$15ppp)	113.6	104.9	101.2	91.5	87.6	88.2	87.6	86.3	82.3	83.3	-
Total energy intensity (toe/million \$15ppp)	203.3	185.4	193.1	148.6	124.0	143.3	140.1	155.4	150.6	141.4	-

*Heat is included

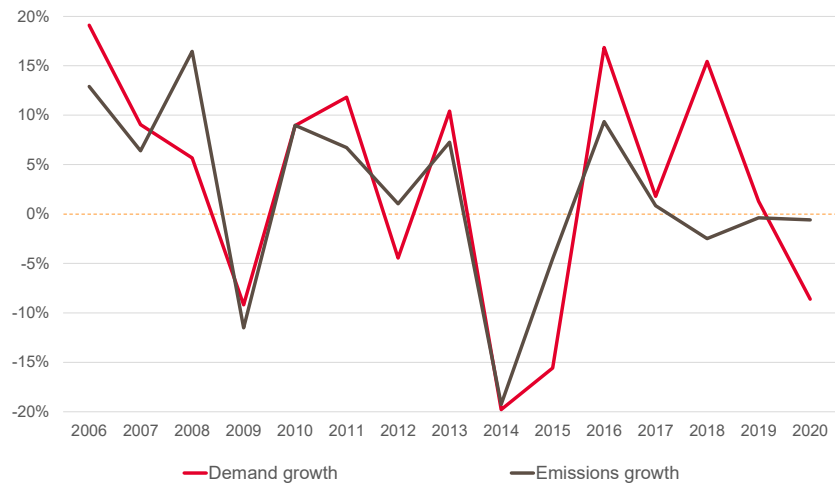
Primary energy demand mix



Electricity generation by source



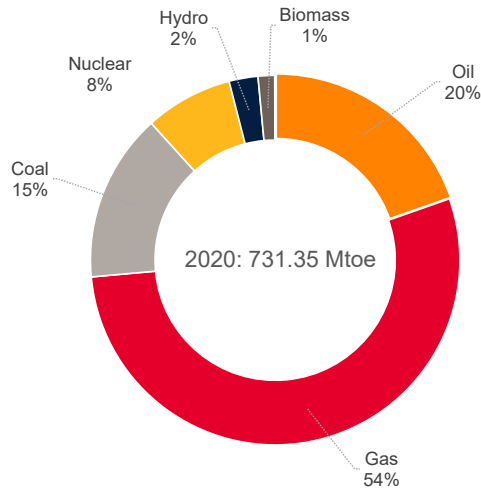
Primary energy demand and CO₂ emissions growth



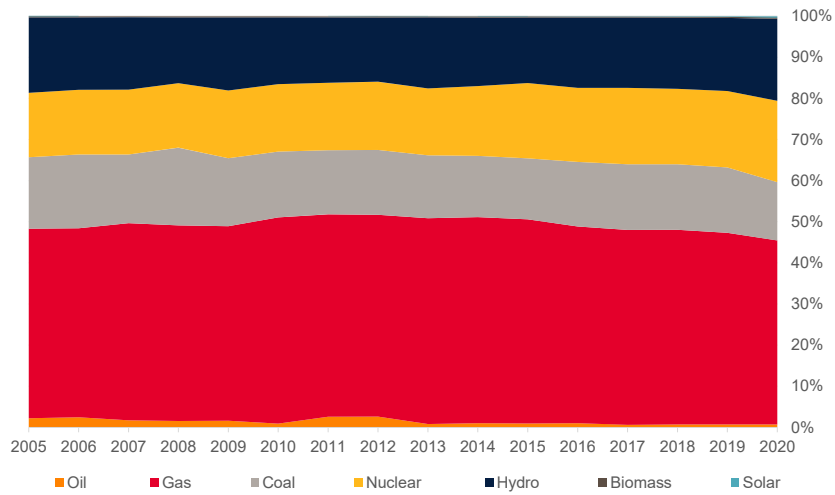
Russia (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	711.0	728.0	706.6	707.0	692.5	714.3	729.1	759.7	768.0	731.3	100.0
Oil	146.8	156.2	145.1	148.7	139.4	155.2	154.0	148.3	149.8	143.6	19.6
Gas	396.0	387.1	386.2	385.4	364.3	371.3	384.8	413.7	416.9	394.8	54.0
Coal	103.3	117.8	108.3	103.9	116.4	113.3	114.1	120.0	120.7	108.0	14.8
Nuclear	45.1	46.3	45.0	47.1	50.9	51.2	52.9	53.3	54.5	56.3	7.7
Hydro	14.3	14.3	15.6	15.1	14.4	15.9	15.9	16.4	17.0	18.6	2.5
Biomass	7.1	7.4	7.2	7.1	7.7	8.1	7.8	8.6	10.2	10.6	1.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.0
Electricity balance of trade*	-1.5	-1.0	-0.8	-0.3	-0.6	-0.9	-0.5	-0.7	-1.2	-0.8	-0.1
Total final consumption, by source	427.9	426.5	415.6	432.7	431.7	442.1	465.2	489.7	490.9	478.3	100.0
Oil	103.2	103.4	108.4	114.3	114.4	113.0	120.6	124.4	125.6	121.6	25.4
Gas	106.8	101.1	100.7	111.3	114.1	122.3	136.3	155.3	157.3	155.6	32.5
Coal	31.5	34.1	32.2	33.7	35.6	35.8	35.2	35.4	35.7	33.4	7.0
Electricity	60.5	61.5	61.8	61.5	61.2	62.2	63.6	63.4	63.7	62.1	13.0
Heat	123.6	123.7	109.9	109.5	103.3	105.3	106.1	107.2	103.9	100.7	21.1
Biomass	2.4	2.7	2.6	2.5	3.1	3.5	3.4	4.0	4.7	4.9	1.0
Electricity generation, by source	90.7	92.1	91.1	91.5	91.8	93.8	94.1	95.9	96.8	93.9	100.0
Oil	2.4	2.4	0.7	0.9	0.9	0.9	0.6	0.7	0.7	0.7	0.7
Gas	44.7	45.2	45.6	45.9	45.6	44.9	44.6	45.4	45.1	42.0	44.7
Coal	14.1	14.5	13.9	13.6	13.6	14.7	15.0	15.3	15.4	13.3	14.2
Nuclear	14.9	15.3	14.8	15.5	16.8	16.9	17.5	17.6	18.0	18.6	19.8
Hydro	14.4	14.4	15.7	15.2	14.6	16.1	16.1	16.6	17.2	18.7	20.0
Biomass	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
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	427.9	426.5	415.6	432.7	431.7	442.1	465.2	489.7	490.9	478.3	100.0
Industry	149.1	157.3	146.0	150.9	150.0	159.9	161.0	150.0	150.1	145.4	30.4
Transport	64.6	64.2	64.9	66.0	64.8	62.9	63.8	68.2	68.7	63.6	13.3
Residential/Commercial	153.3	145.7	143.9	151.9	151.0	152.0	164.2	185.2	184.6	181.7	38.0
Oil final consumption, by sector	103.2	103.4	108.4	114.3	114.4	113.0	120.6	124.4	125.6	121.6	100.0
Industry	10.2	11.3	12.1	13.8	14.5	16.0	15.9	7.9	8.1	8.1	6.7
Transport	59.0	58.4	59.2	60.1	59.4	57.4	58.7	61.5	62.0	57.1	46.9
Residential/Commercial	8.3	8.5	9.2	10.7	10.5	9.8	12.9	15.6	15.6	16.0	13.1
Natural gas final consumption, by sector	106.8	101.1	100.7	111.3	114.1	122.3	136.3	155.3	157.3	155.6	100.0
Industry	31.2	34.1	33.7	37.2	35.5	36.7	38.3	38.3	38.8	38.4	24.7
Transport	0.1	0.0	0.0	0.1	0.1	0.2	0.3	1.6	1.6	1.6	1.0
Residential/Commercial	42.2	34.7	35.8	41.7	44.5	49.7	56.5	70.3	71.2	70.4	45.3
Refined products consumption	103.1	103.3	108.2	114.2	114.3	113.0	120.6	124.3	125.6	121.6	100.0
Gasoline	35.4	36.8	37.4	38.2	37.1	36.3	35.2	36.6	35.8	33.4	27.5
Diesel	26.3	23.0	23.6	26.6	27.3	24.8	28.0	29.5	31.6	31.7	26.1
Heating Oil	2.2	2.3	2.0	1.8	1.0	0.9	1.3	1.6	1.0	0.9	0.7
Aviation Jet	6.4	6.6	6.1	5.7	5.1	4.9	5.4	5.7	5.7	3.2	2.6
LPG	12.8	13.6	14.9	16.5	16.5	16.4	18.0	21.4	21.1	21.6	17.8
Imports	11.2	9.2	9.4	10.8	12.7	9.3	9.1	9.3	9.0	9.1	100.0
Oil	4.7	2.6	2.7	3.7	5.5	1.9	1.8	1.6	1.5	1.4	15.4
Gas	6.6	6.6	6.7	7.1	7.2	7.3	7.2	7.7	7.5	7.7	84.6
Gasoline	1.1	0.2	0.6	1.1	0.9	0.2	0.0	0.0	0.0	0.0	0.3
Diesel	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	3.4
Heating Oil	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
LPG	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.6
Exports	528.6	518.2	542.7	514.1	547.7	555.5	568.8	593.2	609.7	564.0	100.0
Oil	363.3	359.4	368.6	358.4	382.8	380.3	381.3	391.8	398.2	357.6	63.4
Gas	165.3	158.8	174.1	155.8	165.0	175.1	187.6	201.4	211.5	206.4	36.6
Gasoline	4.1	3.4	4.6	3.8	5.0	5.5	4.6	4.4	5.5	6.0	1.1
Diesel	40.2	41.9	43.2	41.0	39.1	38.8	41.3	42.8	40.4	40.2	7.1
Heating Oil	52.7	54.5	61.6	63.3	65.4	49.7	47.1	47.9	49.6	45.0	8.0
Aviation Jet	0.0	0.0	1.9	2.5	2.4	2.5	2.3	2.7	2.8	2.4	0.4
LPG	2.8	2.9	3.4	3.7	4.1	5.4	4.9	5.4	5.0	3.4	0.6
CO₂ Emissions (Million tons CO₂)	1,674.0	1,653.4	1,602.9	1,584.8	1,592.3	1,571.8	1,614.6	1,674.3	1,719.3	1,619.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	493.0	469.5	447.2	439.0	451.5	444.2	449.0	455.4	461.4	450.7	-
Final energy intensity (toe/million \$15ppp)	110.1	106.0	100.7	104.1	105.6	107.7	110.0	111.5	110.1	110.7	-
Total energy intensity (toe/million \$15ppp)	209.4	206.8	197.1	195.9	196.4	201.9	202.8	206.6	206.1	203.6	-

*Heat is included

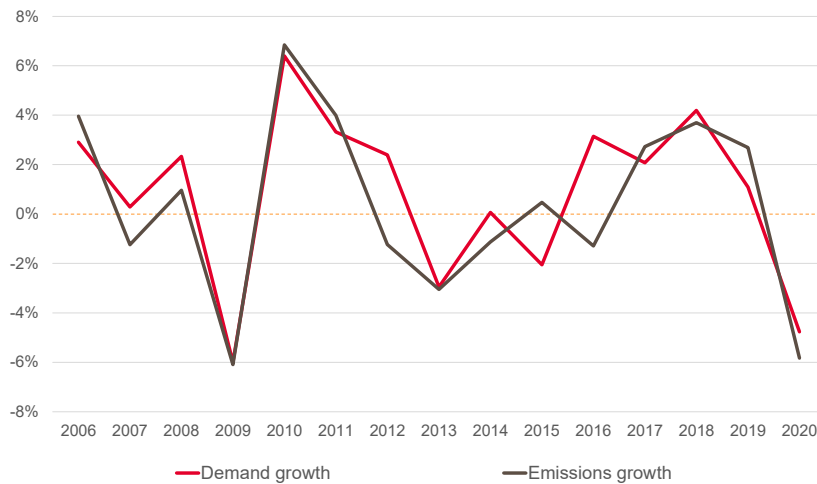
Primary energy demand mix



Electricity generation by source



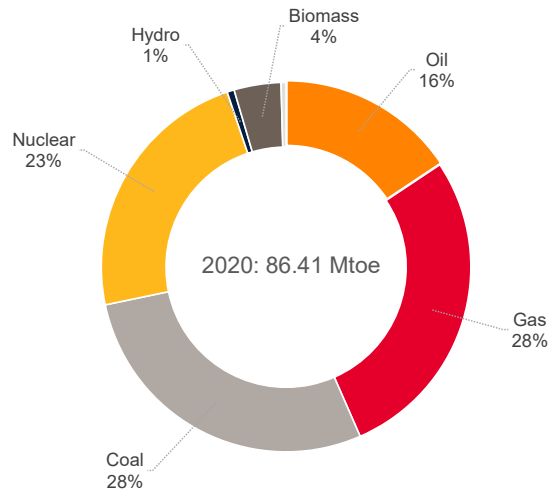
Primary energy demand and CO₂ emissions growth



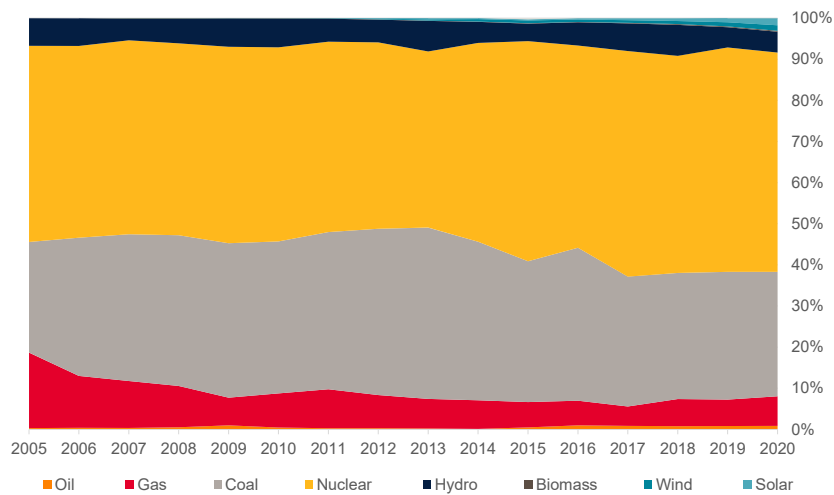
Ukraine (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	126.4	122.4	116.1	105.6	92.8	91.5	89.4	93.5	89.4	86.4	100.0
Oil	12.5	11.7	10.0	10.8	10.6	11.2	12.8	13.5	13.7	13.4	15.6
Gas	46.8	43.0	39.5	33.4	26.1	25.6	24.5	25.7	23.5	23.9	27.6
Coal	41.5	42.5	41.6	35.6	30.1	29.7	25.8	28.1	26.1	24.3	28.1
Nuclear	23.5	23.5	21.7	23.0	22.8	21.1	22.3	22.0	21.6	19.9	23.0
Hydro	0.9	0.9	1.2	0.7	0.5	0.7	0.8	0.9	0.6	0.5	0.6
Biomass	1.7	1.7	1.9	1.9	2.1	2.8	3.0	3.2	3.4	3.5	4.1
Other renewables	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4
Electricity balance of trade*	-0.5	-1.0	0.2	0.0	0.5	0.3	0.1	0.0	0.3	0.5	0.6
Total final consumption, by source	77.5	75.3	72.6	63.1	53.4	54.7	51.8	53.5	51.0	50.6	100.0
Oil	12.5	12.5	11.9	10.1	9.5	9.6	9.9	10.4	10.5	10.4	20.5
Gas	26.0	24.6	22.7	18.7	14.6	14.3	13.4	13.5	12.2	12.8	25.3
Coal	14.1	13.5	13.5	13.1	10.3	10.6	8.8	10.0	9.0	8.6	17.0
Electricity	11.9	11.8	11.8	11.0	10.2	10.1	10.0	10.2	10.0	9.8	19.4
Heat	12.0	11.9	11.7	8.9	7.5	8.3	7.8	7.5	7.2	6.9	13.6
Biomass	1.0	1.0	1.1	1.2	1.3	1.7	1.8	1.9	2.1	2.2	4.3
Electricity generation, by source	16.8	17.1	16.7	15.7	14.1	14.2	13.4	13.7	13.1	12.3	100.0
Oil	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Gas	1.6	1.4	1.2	1.1	0.9	0.8	0.6	0.9	0.8	0.9	7.2
Coal	6.4	6.9	7.0	6.1	4.8	5.3	4.2	4.2	4.1	3.7	30.3
Nuclear	7.8	7.8	7.2	7.6	7.5	7.0	7.4	7.3	7.1	6.6	53.3
Hydro	0.9	0.9	1.2	0.8	0.6	0.8	0.9	1.0	0.6	0.6	5.1
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Wind	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	1.7
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	77.5	75.3	72.6	63.1	53.4	54.7	51.8	53.5	51.0	50.6	100.0
Industry	31.3	29.1	27.0	24.8	20.6	20.1	18.8	20.3	19.0	18.3	36.2
Transport	9.5	9.7	9.5	8.0	7.2	7.8	8.0	8.0	8.4	8.3	16.5
Residential/Commercial	28.8	28.5	29.2	25.0	20.5	22.0	20.9	20.9	19.1	19.7	38.9
Oil final consumption, by sector	12.5	12.5	11.9	10.1	9.5	9.6	9.9	10.4	10.5	10.4	100.0
Industry	1.4	1.2	1.0	0.9	0.8	0.2	0.4	0.4	0.5	0.5	4.9
Transport	8.7	8.9	8.7	7.3	6.6	7.1	7.4	7.4	7.8	7.8	75.0
Residential/Commercial	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.6
Natural gas final consumption, by sector	26.0	24.6	22.7	18.7	14.6	14.3	13.4	13.5	12.2	12.8	100.0
Industry	6.6	5.3	4.4	3.3	2.8	2.5	2.6	2.9	2.7	2.8	21.5
Transport	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	14.5	14.2	14.1	12.6	9.4	9.9	9.5	9.6	7.9	8.4	65.8
Refined products consumption	12.5	12.5	11.9	10.1	9.5	9.6	9.9	10.4	10.5	10.3	100.0
Gasoline	4.6	4.5	4.2	3.3	2.5	2.3	2.1	1.9	1.8	1.8	17.3
Diesel	6.0	6.3	6.1	5.4	5.3	5.2	5.2	5.4	5.9	5.7	55.3
Heating Oil	0.1	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.8	0.9	0.9	1.0	0.9	1.5	1.7	1.9	2.0	2.1	20.6
Imports	49.7	36.6	30.7	24.0	21.4	18.5	22.1	20.0	21.2	17.0	100.0
Oil	13.5	10.0	8.1	8.3	8.1	9.7	10.9	11.5	11.8	11.8	69.6
Gas	36.2	26.6	22.6	15.7	13.3	8.8	11.3	8.5	9.4	5.2	30.4
Gasoline	2.3	2.1	1.9	2.3	1.5	1.5	1.3	1.2	1.1	1.1	6.3
Diesel	3.8	4.8	4.4	4.9	4.9	5.2	5.5	5.7	6.4	6.2	36.4
Heating Oil	0.6	0.1	0.0	0.0	0.2	0.4	0.3	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	0.3	0.4	0.5	0.7	1.2	1.2	1.4	1.6	1.7	10.1
Exports	4.2	1.7	1.0	0.8	0.1	0.2	0.6	0.6	0.9	0.5	100.0
Oil	4.2	1.7	1.0	0.8	0.1	0.2	0.6	0.6	0.9	0.5	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	1.0	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Diesel	0.9	0.5	0.1	0.1	0.0	0.0	0.2	0.2	0.3	0.1	28.3
Heating Oil	1.8	0.5	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
CO₂ Emissions (Million tons CO₂)	290.8	285.1	274.0	231.2	191.7	192.3	176.7	187.7	174.4	169.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	570.4	557.9	536.3	484.2	445.0	435.7	390.7	401.7	361.6	379.1	-
Final energy intensity (toe/million \$15ppp)	140.2	135.3	132.5	124.8	116.1	117.3	109.1	108.9	99.9	107.0	-
Total energy intensity (toe/million \$15ppp)	248.0	239.5	227.2	221.2	215.4	207.4	197.7	200.0	185.3	193.0	-

*Heat is included

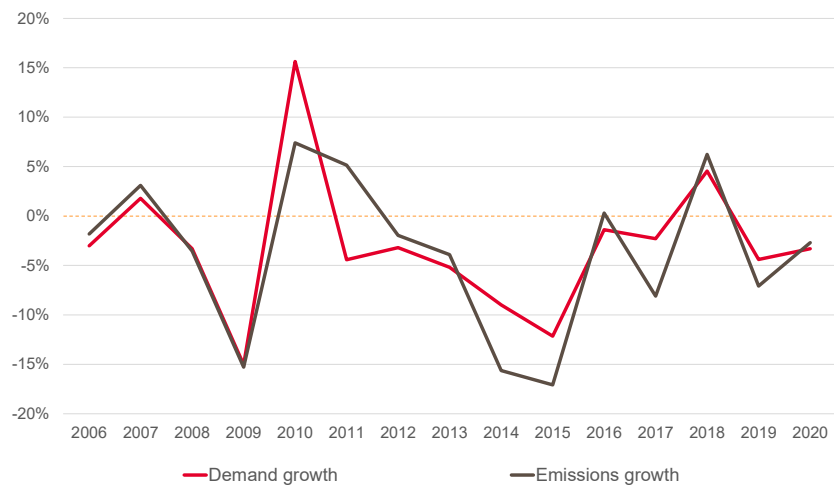
Primary energy demand mix



Electricity generation by source



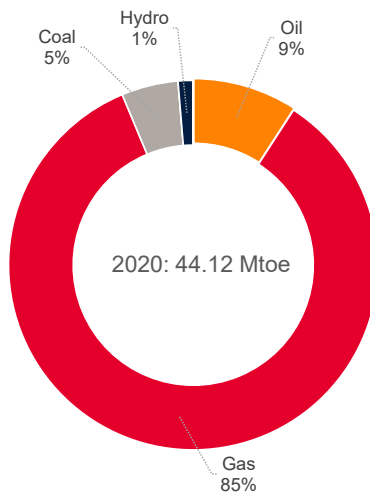
Primary energy demand and CO₂ emissions growth



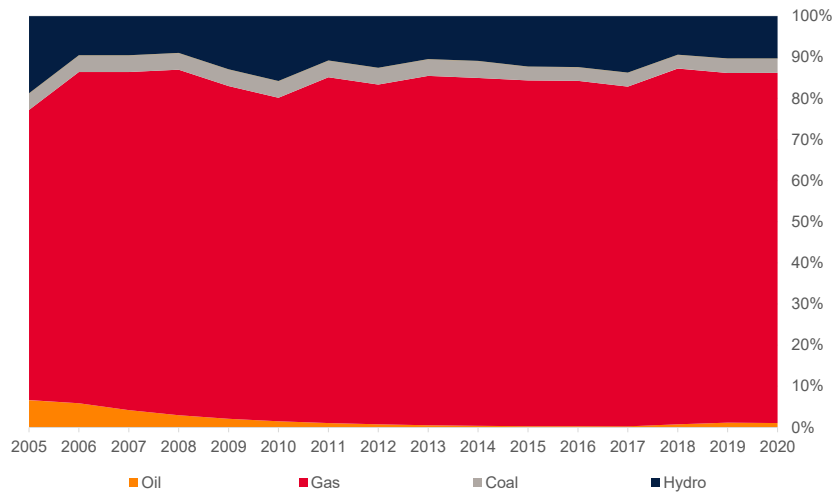
Uzbekistan (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	49.6	44.0	44.1	41.0	39.3	41.5	43.7	46.4	47.4	44.1	100.0
Oil	3.8	3.7	4.0	3.6	3.6	3.7	3.9	4.1	4.2	4.0	9.1
Gas	44.4	38.4	37.6	35.2	33.8	35.5	37.5	39.4	40.4	37.2	84.4
Coal	1.0	1.4	2.0	1.9	1.5	1.8	1.7	2.4	2.1	2.2	5.0
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	0.6	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.6	1.3
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	-0.0	0.1	0.1	0.3
Total final consumption, by source	37.0	31.6	31.2	28.1	26.3	28.0	29.5	28.9	30.3	29.6	100.0
Oil	3.5	3.3	3.8	3.5	3.5	3.6	3.6	3.7	3.8	3.6	12.1
Gas	27.0	21.8	20.2	17.8	16.1	17.3	18.9	17.1	18.1	17.8	60.1
Coal	0.3	0.4	0.8	0.6	0.4	0.7	0.5	0.8	0.8	0.8	2.7
Electricity	3.3	3.3	3.4	3.5	3.6	3.7	3.8	4.5	4.6	4.8	16.1
Heat	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2.7	3.0	2.6	8.9
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	4.6	4.7	4.8	5.0	5.1	5.3	5.4	5.4	5.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.0
Gas	3.8	3.8	4.0	4.1	4.2	4.3	4.4	4.7	4.6	4.8	85.2
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.5
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	0.6	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.6	10.3
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	0.0	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	37.0	31.6	31.2	28.1	26.3	28.0	29.5	28.9	30.3	29.6	100.0
Industry	8.6	7.2	6.9	6.3	5.8	6.2	6.7	6.6	7.2	6.7	22.6
Transport	2.4	2.2	2.4	2.1	2.1	2.2	2.1	5.2	5.4	5.2	17.6
Residential/Commercial	20.9	17.2	16.5	14.8	13.6	14.5	15.8	14.9	14.9	14.9	50.3
Oil final consumption, by sector	3.5	3.3	3.8	3.5	3.5	3.6	3.6	3.7	3.8	3.6	100.0
Industry	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	4.1
Transport	2.3	2.1	2.3	2.0	2.0	2.1	2.0	2.8	2.6	2.5	68.9
Residential/Commercial	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.5	14.9
Natural gas final consumption, by sector	27.0	21.8	20.2	17.8	16.1	17.3	18.9	17.1	18.1	17.8	100.0
Industry	7.2	5.8	5.4	4.7	4.3	4.6	5.0	4.5	4.9	4.4	24.9
Transport	0.1	0.1	0.1	0.0	0.0	0.0	0.0	2.3	2.7	2.6	14.8
Residential/Commercial	19.6	15.8	14.7	12.9	11.6	12.5	13.7	10.0	9.9	10.1	56.8
Refined products consumption	3.4	3.3	3.8	3.4	3.4	3.5	3.5	3.7	3.8	3.6	100.0
Gasoline	1.4	1.3	1.2	1.1	1.1	1.2	1.1	1.1	1.0	1.0	27.2
Diesel	1.1	1.1	1.1	1.0	1.1	1.1	1.0	1.1	1.1	1.0	28.7
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	2.2
Aviation Jet	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	4.3
LPG	0.3	0.3	0.8	0.7	0.8	0.8	0.9	0.9	0.9	0.9	23.8
Imports	1.1	0.8	0.8	0.6	0.8	1.1	1.1	1.3	1.2	0.9	100.0
Oil	1.1	0.8	0.8	0.6	0.8	1.1	1.1	1.3	1.2	0.9	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	8.5
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	14.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	7.6	12.5	10.2	8.8	9.9	9.6	8.5	12.2	10.1	2.4	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	6.8
Gas	7.4	12.4	10.1	8.7	9.8	9.5	8.3	12.1	10.0	2.2	93.2
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
CO₂ Emissions (Million tons CO₂)	122.7	109.0	110.8	102.9	97.5	103.3	107.6	108.3	111.5	106.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	822.5	680.1	642.6	556.7	491.1	490.6	488.9	468.0	456.8	434.5	-
Final energy intensity (toe/million \$15ppp)	245.7	195.3	178.8	150.7	131.1	131.6	132.7	124.0	120.5	117.2	-
Total energy intensity (toe/million \$15ppp)	332.6	274.9	255.6	222.1	198.0	197.1	198.8	200.6	194.2	179.4	-

*Heat is included

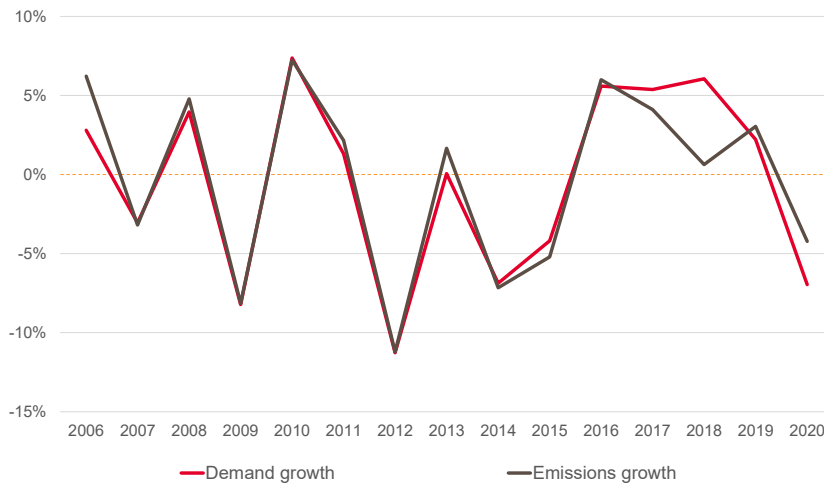
Primary energy demand mix



Electricity generation by source

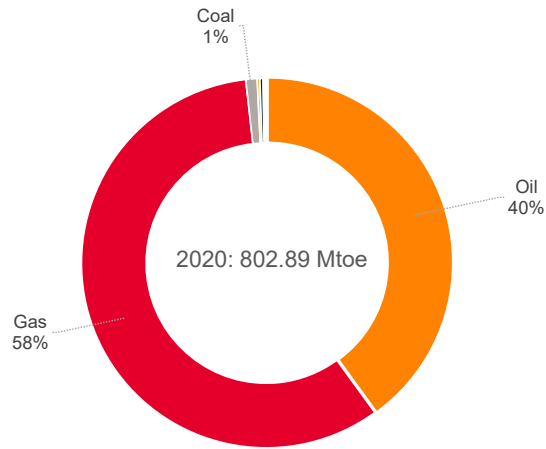


Primary energy demand and CO₂ emissions growth

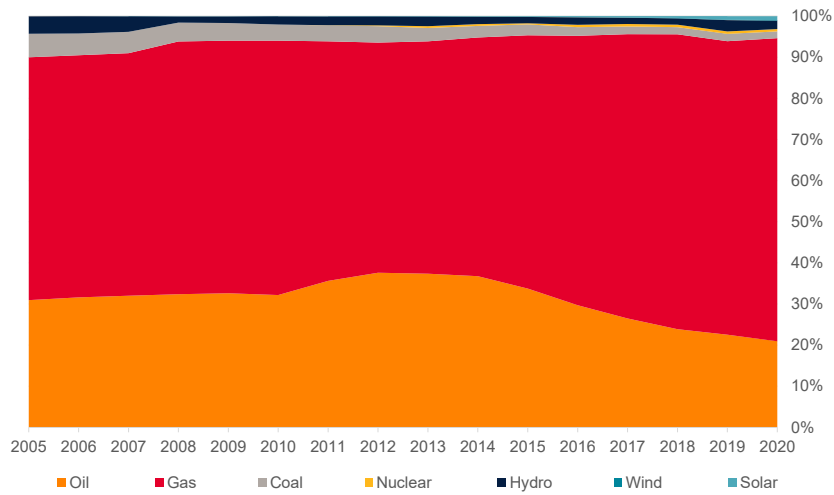


Middle East (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	647.4	682.6	693.5	732.3	745.5	762.0	792.2	795.6	812.5	802.9	100.0
Oil	309.9	328.0	327.0	349.2	339.5	338.8	352.1	343.5	345.2	320.9	40.0
Gas	323.7	339.3	351.3	368.1	391.6	408.3	425.5	437.0	451.2	467.3	58.2
Coal	9.8	11.6	10.5	10.3	10.0	9.0	8.9	8.2	8.5	7.9	1.0
Nuclear	0.1	0.5	1.2	1.2	0.8	1.7	2.0	2.0	1.8	1.8	0.2
Hydro	1.7	1.8	2.0	1.7	1.5	1.8	1.6	1.6	3.0	2.2	0.3
Biomass	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.1
Other renewables	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	1.0	1.2	0.1
Electricity balance of trade*	1.3	0.4	0.5	0.7	1.1	1.0	0.8	1.7	0.7	0.5	0.1
Total final consumption, by source	446.8	465.6	474.9	495.4	506.3	513.5	527.1	533.9	542.3	528.2	100.0
Oil	215.7	226.2	226.7	235.6	236.8	238.4	251.4	252.7	254.4	236.4	44.8
Gas	163.6	166.4	171.2	178.0	186.8	188.3	185.9	190.0	196.5	200.6	38.0
Coal	1.6	2.6	3.3	3.7	3.4	3.5	3.9	3.7	3.6	3.4	0.6
Electricity	63.8	69.1	72.4	76.8	78.0	81.8	84.4	86.0	86.2	86.2	16.3
Heat	1.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1
Biomass	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.2
Electricity generation, by source	78.8	84.2	87.0	93.0	97.4	100.7	105.3	105.6	107.3	107.5	100.0
Oil	28.1	31.7	32.5	34.2	32.9	29.9	27.9	25.2	24.2	22.5	20.9
Gas	45.9	47.1	49.2	54.0	60.0	66.0	72.8	75.7	76.5	79.2	73.7
Coal	3.1	3.4	2.8	2.6	2.6	2.1	2.0	1.8	1.9	1.8	1.7
Nuclear	0.0	0.2	0.4	0.4	0.3	0.6	0.6	0.7	0.6	0.6	0.6
Hydro	1.7	1.8	2.0	1.7	1.5	1.8	1.6	1.6	3.0	2.2	2.0
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	0.1	0.1	0.1	0.1	0.1	0.1
Solar	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.9	1.0	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	446.8	465.6	474.9	495.4	506.3	513.5	527.1	533.9	542.3	528.2	100.0
Industry	138.5	143.4	147.0	157.3	159.3	159.3	161.6	163.3	168.7	171.6	32.5
Transport	126.6	134.5	137.4	140.3	138.9	141.9	147.3	146.4	146.5	131.3	24.9
Residential/Commercial	112.0	112.6	117.8	119.9	124.5	130.2	129.4	132.3	133.1	134.2	25.4
Oil final consumption, by sector	215.7	226.2	226.7	235.6	236.8	238.4	251.4	252.7	254.4	236.4	100.0
Industry	30.9	28.8	29.7	34.2	32.8	34.1	37.8	37.8	37.6	39.3	16.6
Transport	121.3	128.6	131.7	134.3	132.6	135.4	140.8	139.7	139.7	124.4	52.6
Residential/Commercial	19.1	18.8	17.6	15.7	14.8	15.2	15.1	14.9	15.1	14.2	6.0
Natural gas final consumption, by sector	163.6	166.4	171.2	178.0	186.8	188.3	185.9	190.0	196.5	200.6	100.0
Industry	90.8	96.4	97.2	101.8	108.2	104.3	102.6	103.3	108.7	110.3	55.0
Transport	5.3	5.9	5.6	6.0	6.3	6.5	6.5	6.7	6.7	6.9	3.4
Residential/Commercial	45.8	43.0	47.3	48.0	49.9	53.6	50.7	53.3	53.8	55.8	27.8
Refined products consumption	211.5	225.7	226.4	234.9	236.5	236.5	250.7	252.0	253.7	235.7	100.0
Gasoline	64.6	68.4	72.1	73.4	74.5	77.0	82.6	81.3	80.8	71.0	30.1
Diesel	73.1	76.4	75.7	76.2	71.4	71.3	71.1	71.3	72.1	66.3	28.1
Heating Oil	16.7	16.5	16.9	20.9	21.4	21.1	25.3	24.6	24.3	26.5	11.2
Aviation Jet	1.2	1.9	2.0	2.1	2.3	2.3	2.5	2.4	2.3	1.6	0.7
LPG	13.3	15.6	14.6	14.1	17.0	13.8	14.2	14.3	14.3	13.9	5.9
Imports	114.5	118.9	133.2	137.1	145.7	144.7	149.2	164.0	137.4	136.5	100.0
Oil	83.6	94.8	107.7	109.8	114.0	112.5	116.2	133.4	106.6	104.8	76.7
Gas	30.9	24.1	25.5	27.3	31.8	32.2	33.0	30.5	30.8	31.8	23.3
Gasoline	14.3	15.3	18.7	19.5	22.8	24.2	27.1	36.9	27.6	26.2	19.2
Diesel	21.9	28.5	32.3	33.2	32.9	32.4	25.1	27.7	17.4	16.3	11.9
Heating Oil	19.9	21.9	22.5	21.1	22.3	21.2	20.8	26.7	19.7	21.1	15.5
Aviation Jet	0.8	0.4	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.4	0.3
LPG	1.9	2.1	1.9	1.6	1.6	1.8	1.5	1.3	1.3	1.5	1.1
Exports	1,219.5	1,212.4	1,225.4	1,206.0	1,264.9	1,407.7	1,372.1	1,402.4	1,302.4	1,200.2	100.0
Oil	1,081.4	1,076.1	1,084.5	1,066.8	1,130.2	1,271.0	1,234.0	1,262.2	1,157.9	1,063.9	88.6
Gas	138.1	136.3	140.9	139.2	134.7	136.7	138.0	140.1	144.4	136.3	11.4
Gasoline	5.8	4.6	3.3	6.1	9.9	14.0	13.1	20.6	13.2	11.7	1.0
Diesel	24.0	25.3	27.3	35.0	47.4	55.6	56.2	68.6	59.7	51.2	4.3
Heating Oil	25.0	24.7	26.8	20.6	24.4	28.3	32.2	35.3	32.1	26.7	2.2
Aviation Jet	11.6	11.3	11.4	9.4	9.2	10.1	11.2	12.8	12.3	11.2	0.9
LPG	51.6	53.0	52.0	52.1	51.0	58.3	57.9	54.9	46.1	44.7	3.7
CO₂ Emissions (Million tons CO₂)	1,664.5	1,744.7	1,778.3	1,850.5	1,873.0	1,887.6	1,914.0	1,903.4	1,935.2	1,893.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	358.0	376.1	379.4	384.9	383.1	367.0	369.6	367.3	375.5	387.3	-
Final energy intensity (toe/million \$15ppp)	83.2	86.3	87.8	88.9	88.4	85.8	86.7	87.3	89.0	91.6	-
Total energy intensity (toe/million \$15ppp)	139.3	147.1	148.0	152.3	152.5	148.1	153.0	153.5	157.6	164.2	-

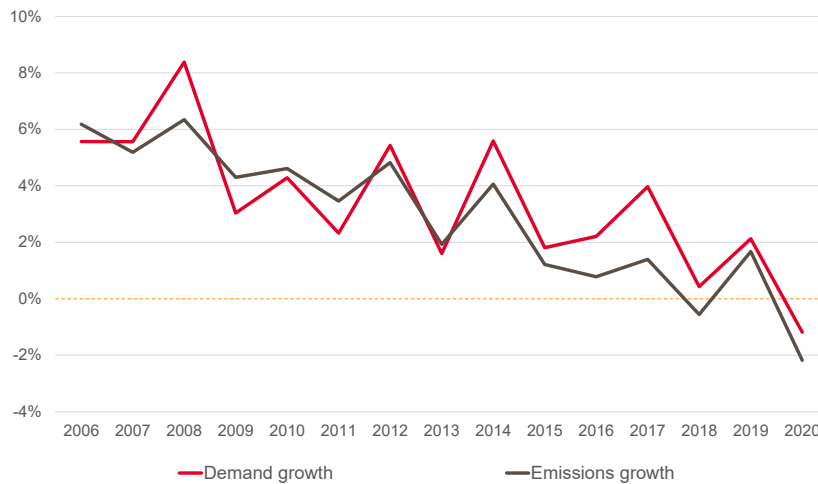
Primary energy demand mix



Electricity generation by source



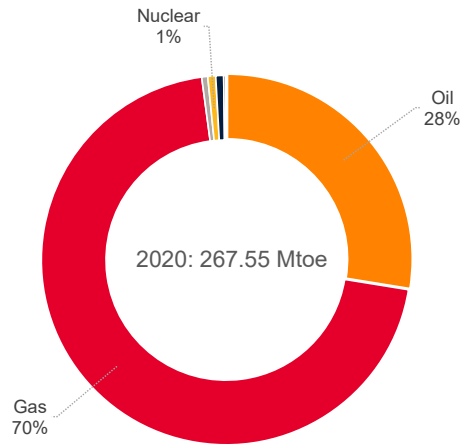
Primary energy demand and CO₂ emissions growth



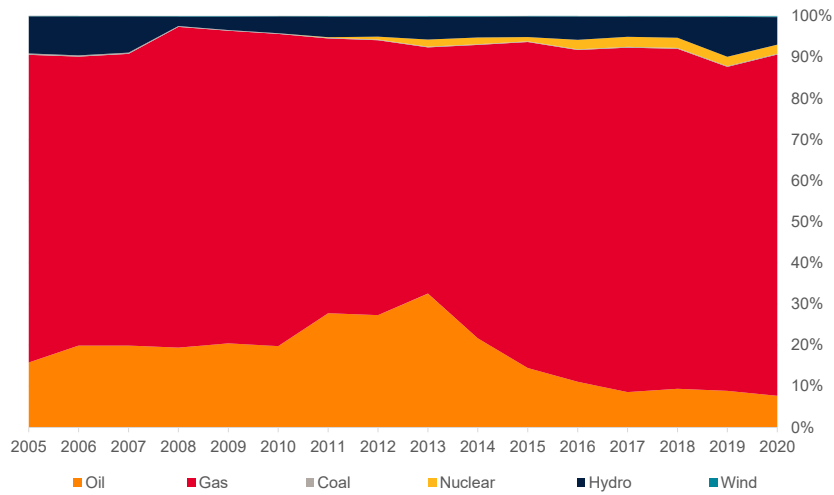
Iran (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	208.4	217.5	221.8	238.0	238.1	245.7	261.9	265.7	269.1	267.5	100.0
Oil	76.5	86.6	89.0	88.8	79.4	74.8	82.6	82.1	81.4	73.9	27.6
Gas	129.2	128.4	129.3	145.9	155.3	166.4	174.6	178.8	181.8	188.6	70.5
Coal	1.5	1.1	1.2	1.0	1.1	1.1	1.2	1.3	1.4	1.4	0.5
Nuclear	0.1	0.5	1.2	1.2	0.8	1.7	2.0	2.0	1.8	1.8	0.7
Hydro	1.0	1.1	1.3	1.2	1.2	1.4	1.3	1.4	2.6	1.9	0.7
Biomass	0.5	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*	-0.4	-0.6	-0.7	-0.5	-0.2	-0.2	-0.4	-0.3	-0.5	-0.6	-0.2
Total final consumption, by source	162.6	164.0	170.4	181.6	181.6	188.7	194.7	200.4	201.1	198.2	100.0
Oil	57.3	60.9	62.4	67.4	66.9	64.9	68.7	71.3	70.9	64.8	32.7
Gas	87.6	84.8	88.9	93.6	94.9	101.5	102.6	105.0	106.0	108.6	54.8
Coal	0.9	0.7	1.0	1.1	1.1	1.1	1.2	1.3	1.3	1.4	0.7
Electricity	16.3	17.1	17.6	19.0	18.2	20.7	21.7	22.3	22.4	22.9	11.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Electricity generation, by source	20.6	21.9	22.6	23.6	24.1	24.9	26.5	26.6	27.0	27.7	100.0
Oil	5.7	6.0	7.3	5.1	3.5	2.8	2.3	2.5	2.4	2.1	7.7
Gas	13.8	14.6	13.5	16.8	19.1	20.1	22.2	22.0	21.3	23.0	83.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
Nuclear	0.0	0.2	0.4	0.4	0.3	0.6	0.6	0.7	0.6	0.6	2.2
Hydro	1.0	1.1	1.3	1.2	1.2	1.4	1.3	1.4	2.6	1.9	6.7
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	162.6	164.0	170.4	181.6	181.6	188.7	194.7	200.4	201.1	198.2	100.0
Industry	41.1	41.9	42.2	48.2	45.7	45.5	46.9	48.5	49.0	49.1	24.8
Transport	39.4	42.2	43.4	44.4	42.9	44.2	46.3	47.8	47.6	44.0	22.2
Residential/Commercial	58.8	55.1	59.6	60.4	62.1	66.2	63.6	64.9	65.3	67.1	33.9
Oil final consumption, by sector	57.3	60.9	62.4	67.4	66.9	64.9	68.7	71.3	70.9	64.8	100.0
Industry	5.7	5.5	5.3	8.4	8.0	4.1	3.9	3.9	4.0	3.6	5.6
Transport	34.1	36.3	37.7	38.4	36.6	37.6	39.8	41.1	40.8	37.1	57.2
Residential/Commercial	7.8	7.5	7.3	6.4	6.1	6.1	5.5	5.5	5.5	4.9	7.6
Natural gas final consumption, by sector	87.6	84.8	88.9	93.6	94.9	101.5	102.6	105.0	106.0	108.6	100.0
Industry	28.8	29.8	30.1	32.5	32.1	33.6	35.2	36.1	36.4	36.7	33.8
Transport	5.3	5.9	5.6	6.0	6.3	6.5	6.5	6.7	6.7	6.9	6.3
Residential/Commercial	42.7	39.0	43.3	44.0	45.3	49.0	46.3	47.4	47.9	49.9	46.0
Refined products consumption	57.3	60.9	62.4	67.4	66.9	64.9	68.7	71.3	70.9	64.8	100.0
Gasoline	16.8	17.8	19.2	19.5	19.9	21.0	22.6	23.2	22.9	20.9	32.2
Diesel	23.6	24.1	24.2	24.0	21.5	21.3	22.1	23.2	23.2	21.3	32.8
Heating Oil	3.8	3.7	3.3	6.3	5.8	2.0	1.1	1.0	1.1	1.0	1.6
Aviation Jet	0.0	0.7	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	1.2
LPG	2.5	2.5	2.6	2.3	2.4	2.4	2.4	2.5	2.5	2.3	3.5
Imports	13.3	6.2	7.7	10.1	11.7	10.2	8.6	7.9	7.7	8.1	100.0
Oil	3.3	2.2	3.2	3.8	4.4	5.2	5.4	6.5	6.4	6.2	76.8
Gas	10.0	3.9	4.5	6.4	7.2	5.0	3.3	1.3	1.3	1.9	23.2
Gasoline	1.4	0.4	1.0	1.3	2.8	3.4	3.5	4.7	4.5	4.4	54.2
Diesel	0.0	0.0	0.2	0.3	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	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	148.1	86.4	82.1	85.2	92.3	156.7	160.4	146.3	87.7	77.3	100.0
Oil	140.1	78.6	74.2	77.0	84.6	149.0	149.2	133.1	72.2	65.8	85.1
Gas	8.0	7.9	7.9	8.2	7.7	7.7	11.2	13.1	15.5	11.5	14.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.6	0.6	0.2	0.0	1.8	3.5	2.1	2.1	2.5	1.8	2.3
Heating Oil	9.9	5.5	8.1	6.1	9.1	15.2	15.2	15.3	15.3	10.7	13.8
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	4.1	3.0	2.0	3.3	3.2	3.1	2.9	2.9	2.8	2.0	2.5
CO₂ Emissions (Million tons CO₂)	531.3	538.1	561.4	587.2	581.6	585.0	604.7	615.1	620.0	619.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	486.5	532.4	556.5	556.5	558.6	495.4	493.6	530.8	572.3	580.2	-
Final energy intensity (toe/million \$15ppp)	133.5	144.5	151.0	151.8	151.7	138.1	134.4	145.9	156.6	157.5	-
Total energy intensity (toe/million \$15ppp)	190.8	215.2	219.9	225.6	228.7	208.1	213.7	229.3	248.4	250.7	-

*Heat is included

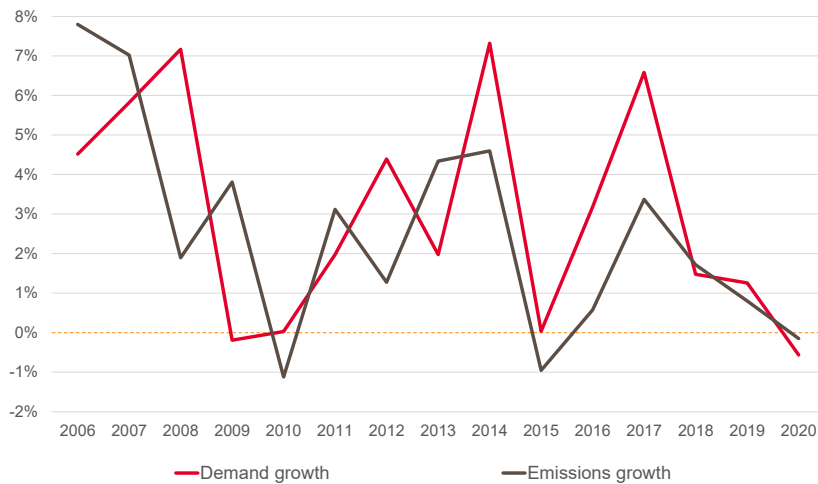
Primary energy demand mix



Electricity generation by source



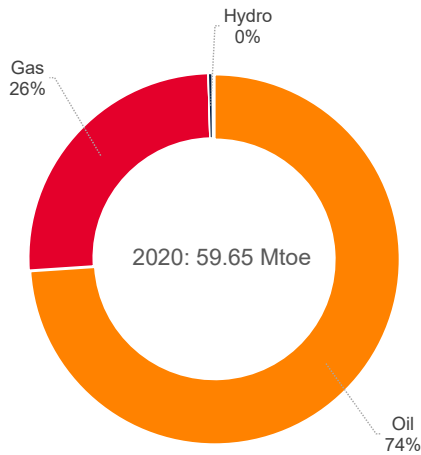
Primary energy demand and CO₂ emissions growth



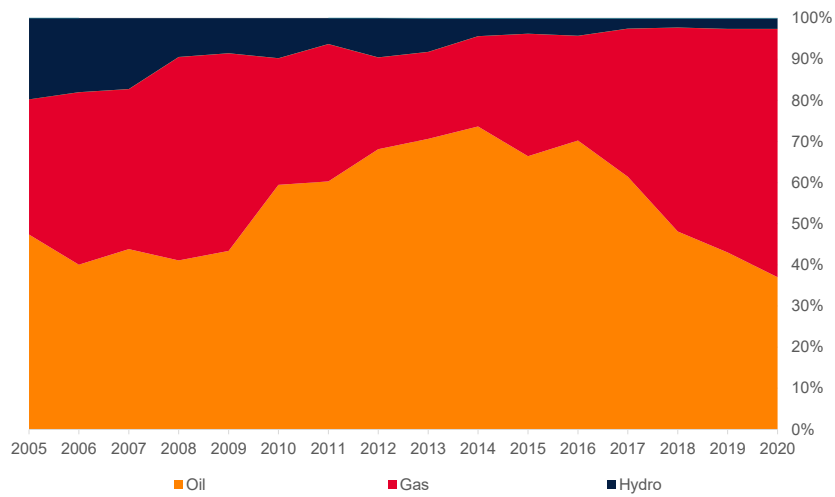
Iraq (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	41.6	46.6	49.3	49.7	46.9	52.7	58.1	64.4	68.2	59.6	100.0
Oil	34.5	39.6	42.1	42.9	39.8	45.1	48.5	49.0	50.0	43.4	72.7
Gas	6.1	5.7	5.7	5.5	5.7	6.2	8.4	13.3	16.9	15.0	25.2
Coal	0.0	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	0.3	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.4
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*	0.6	0.9	1.0	1.1	1.1	1.0	1.0	1.9	1.1	1.0	1.7
Total final consumption, by source	22.9	26.0	26.4	21.4	17.4	18.1	20.1	22.6	23.1	21.0	100.0
Oil	18.2	19.9	20.1	16.1	13.1	13.4	15.3	17.5	17.8	15.5	74.0
Gas	1.3	3.0	2.4	1.6	1.2	1.4	1.4	1.3	1.5	1.6	7.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.3	3.0	3.9	3.8	3.1	3.3	3.4	3.7	3.9	3.8	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	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	4.6	4.0	5.0	5.8	5.9	6.9	7.5	7.1	8.4	8.3	100.0
Oil	2.8	2.7	3.6	4.3	3.9	4.8	4.6	3.4	3.6	3.1	37.0
Gas	1.5	0.9	1.1	1.3	1.8	1.8	2.7	3.5	4.6	5.0	60.4
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	0.3	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	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	0.0	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	22.9	26.0	26.4	21.4	17.4	18.1	20.1	22.6	23.1	21.0	100.0
Industry	4.0	6.3	5.8	4.8	3.5	3.6	3.7	4.2	4.3	4.0	19.0
Transport	11.0	11.9	11.8	9.7	8.3	8.5	9.6	11.3	11.4	9.6	45.7
Residential/Commercial	6.5	6.6	7.3	6.1	5.1	5.8	6.2	6.5	6.8	6.8	32.5
Oil final consumption, by sector	18.2	19.9	20.1	16.1	13.1	13.4	15.3	17.5	17.8	15.5	100.0
Industry	2.8	3.0	3.1	2.5	2.0	1.9	2.2	2.7	2.6	2.2	14.3
Transport	11.0	11.9	11.8	9.7	8.3	8.5	9.6	11.3	11.4	9.6	61.7
Residential/Commercial	3.9	4.3	4.3	3.2	2.6	2.9	3.2	3.2	3.4	3.4	22.0
Natural gas final consumption, by sector	1.3	3.0	2.4	1.6	1.2	1.4	1.4	1.3	1.5	1.6	100.0
Industry	0.6	2.5	1.9	1.4	1.0	1.2	1.1	1.1	1.2	1.3	83.4
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	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	18.2	19.9	20.1	16.1	13.1	13.4	15.3	17.5	17.8	15.5	100.0
Gasoline	5.9	6.3	6.1	5.0	4.8	5.0	5.7	6.4	6.7	5.6	35.9
Diesel	7.6	8.3	8.4	6.9	5.3	5.2	5.9	7.3	7.1	6.0	38.7
Heating Oil	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	1.4
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	1.7	2.0	2.2	1.8	1.3	1.5	1.7	1.8	1.9	1.9	12.1
Imports	9.7	11.7	12.4	14.7	13.9	17.0	18.3	18.0	17.7	16.7	100.0
Oil	9.7	11.7	12.4	14.7	13.9	17.0	17.0	14.3	13.2	12.5	74.9
Gas	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.7	4.5	4.2	25.1
Gasoline	2.4	2.5	2.2	2.0	2.1	2.3	2.6	2.7	2.9	2.1	12.8
Diesel	6.3	8.2	9.2	11.8	10.9	14.0	13.8	11.0	9.8	9.7	57.9
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	0.5	0.2	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.2	1.2
LPG	0.2	0.4	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Exports	109.1	122.1	119.9	127.2	152.8	192.0	194.7	195.4	203.0	179.2	100.0
Oil	109.1	122.1	119.9	127.2	152.8	192.0	194.7	195.4	203.0	179.2	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	0.0	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	0.1	0.5	0.4	0.4	0.3	3.5	1.1	3.7	6.3	3.5
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	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.1
CO₂ Emissions (Million tons CO₂)	112.2	128.0	137.1	141.8	131.7	139.3	140.4	154.2	165.6	149.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	387.5	387.8	386.3	396.5	359.3	330.0	341.0	376.8	387.5	397.5	-
Final energy intensity (toe/million \$15ppp)	74.2	74.8	70.2	57.4	46.1	42.1	47.6	53.8	52.9	54.3	-
Total energy intensity (toe/million \$15ppp)	143.5	141.4	138.8	139.1	128.0	124.8	141.2	157.3	159.6	158.7	-

*Heat is included

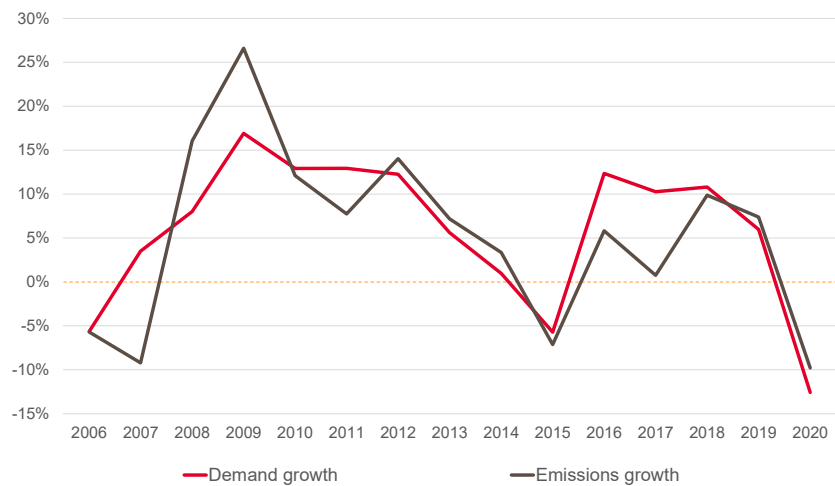
Primary energy demand mix



Electricity generation by source



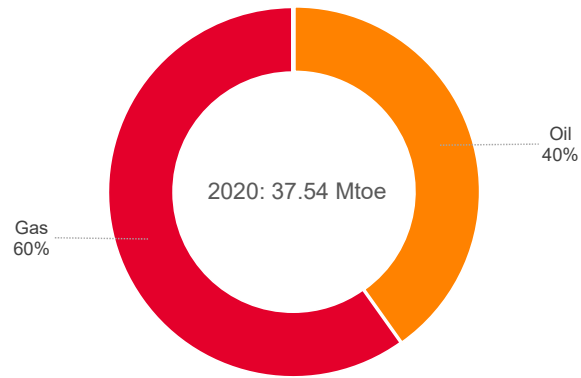
Primary energy demand and CO₂ emissions growth



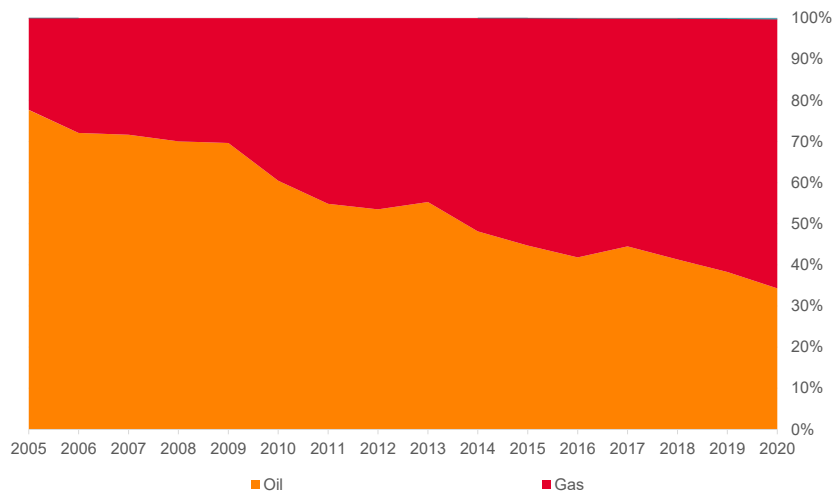
Kuwait (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	27.8	29.1	29.7	26.8	33.0	36.1	34.5	34.0	36.0	37.5	100.0
Oil	13.9	14.2	14.6	11.8	15.9	18.0	16.0	15.4	15.9	15.1	40.2
Gas	13.9	14.8	15.1	15.0	17.1	18.2	18.5	18.6	20.1	22.4	59.7
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	0.0	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	15.3	16.2	15.6	15.1	16.2	16.8	17.7	17.3	18.0	18.6	100.0
Oil	8.4	9.3	8.4	8.8	8.9	9.0	9.1	9.5	9.8	9.6	51.8
Gas	4.0	3.8	4.1	2.9	3.6	3.9	4.4	3.6	3.9	4.7	25.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2.9	3.1	3.1	3.4	3.7	3.8	4.1	4.2	4.3	4.2	22.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	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	5.3	5.2	5.6	5.9	6.0	6.3	6.4	6.5	6.4	100.0
Oil	2.7	2.8	2.9	2.7	2.6	2.5	2.8	2.6	2.5	2.2	34.3
Gas	2.2	2.4	2.3	2.9	3.2	3.5	3.5	3.7	4.0	4.2	65.4
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	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	0.2
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	15.3	16.2	15.6	15.1	16.2	16.8	17.7	17.3	18.0	18.6	100.0
Industry	5.3	5.3	5.5	4.4	5.0	5.4	5.8	5.0	5.4	6.1	33.1
Transport	4.1	4.2	4.4	4.5	4.7	4.8	5.1	5.3	5.4	5.0	26.9
Residential/Commercial	2.6	2.8	2.7	2.9	3.2	3.3	3.6	3.7	3.7	3.7	19.9
Oil final consumption, by sector	8.4	9.3	8.4	8.8	8.9	9.0	9.1	9.5	9.8	9.6	100.0
Industry	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.7	7.1
Transport	4.1	4.2	4.4	4.5	4.7	4.8	5.1	5.3	5.4	5.0	52.0
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	3.5
Natural gas final consumption, by sector	4.0	3.8	4.1	2.9	3.6	3.9	4.4	3.6	3.9	4.7	100.0
Industry	4.0	3.8	4.1	2.9	3.6	3.9	4.4	3.6	3.9	4.7	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	8.4	9.3	8.4	8.8	8.9	9.0	9.1	9.5	9.8	9.6	100.0
Gasoline	2.7	2.8	3.0	3.1	3.3	3.2	3.4	3.6	3.6	3.3	34.0
Diesel	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.4	25.0
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	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.8
Imports	2.8	2.2	1.8	2.7	3.3	4.1	4.5	4.1	4.3	5.0	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	2.8	2.2	1.8	2.7	3.3	4.1	4.5	4.1	4.3	5.0	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	127.8	143.0	140.3	139.0	138.1	143.0	133.4	135.8	131.0	120.2	100.0
Oil	127.8	143.0	140.3	139.0	138.1	143.0	133.4	135.8	131.0	120.2	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	0.0	0.7	0.0	0.2	0.5	0.7	0.6	0.5	0.4	0.3	0.3
Diesel	10.4	10.5	10.4	10.3	8.4	7.3	6.1	5.9	5.9	5.5	4.5
Heating Oil	4.3	5.2	3.3	3.6	4.9	4.4	3.7	3.6	3.4	3.1	2.5
Aviation Jet	2.0	2.2	2.0	1.8	1.9	1.6	0.9	1.0	1.1	1.0	0.8
LPG	4.6	5.1	4.9	5.0	5.4	6.3	7.2	7.3	6.1	5.6	4.6
CO₂ Emissions (Million tons CO₂)	81.8	84.7	85.5	83.6	87.9	89.8	89.7	89.4	92.9	94.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	496.9	482.2	481.1	468.3	489.5	485.8	509.2	501.6	519.1	575.2	-
Final energy intensity (toe/million \$15ppp)	73.2	70.0	71.5	66.9	72.9	73.8	83.0	79.6	82.3	90.9	-
Total energy intensity (toe/million \$15ppp)	168.9	165.6	167.2	150.3	183.8	195.6	195.7	190.7	201.0	228.1	-

*Heat is included

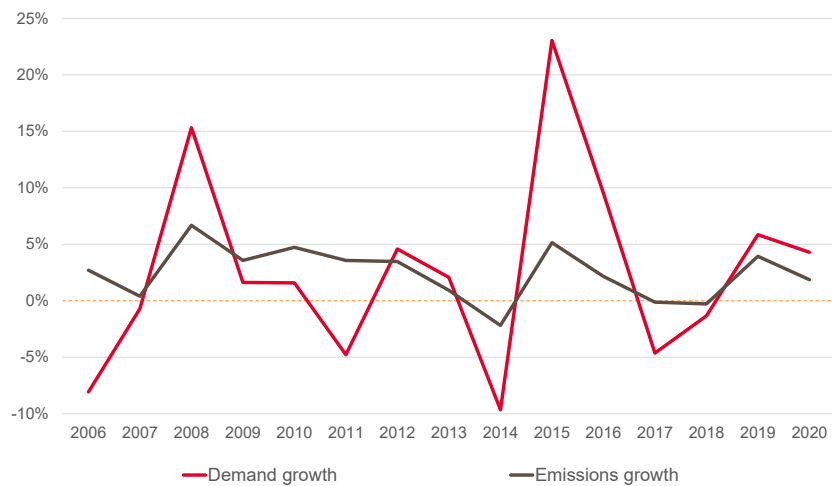
Primary energy demand mix



Electricity generation by source



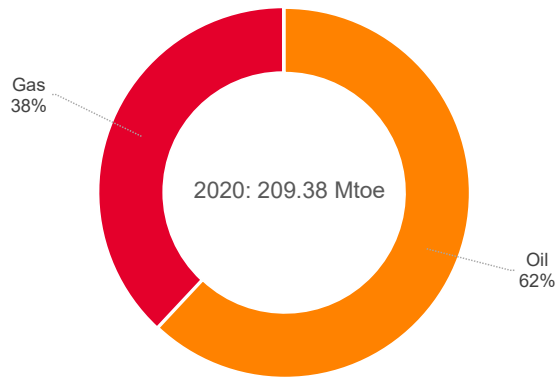
Primary energy demand and CO₂ emissions growth



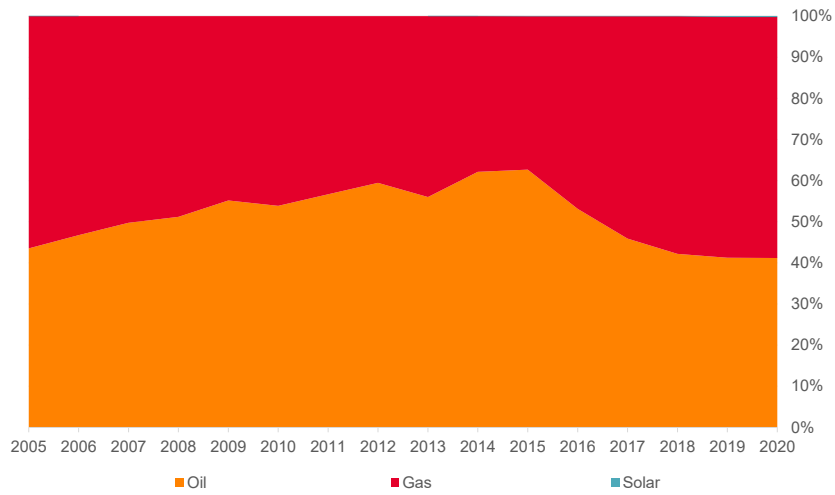
Saudi Arabia (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	183.8	188.7	187.6	206.7	216.4	214.8	218.9	213.6	215.1	209.4	100.0
Oil	122.7	122.4	120.7	137.1	145.1	140.6	140.9	134.5	136.0	129.8	62.0
Gas	61.0	66.2	66.9	69.5	71.3	74.2	78.0	79.1	79.1	79.6	38.0
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
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*	0.0	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	125.3	132.1	132.4	145.2	154.2	150.0	149.3	148.0	149.4	144.5	100.0
Oil	78.3	81.1	81.3	87.5	94.7	96.1	98.9	95.8	97.4	91.9	63.6
Gas	28.9	29.3	27.9	32.6	33.1	27.4	23.6	25.7	26.4	27.3	18.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	18.1	21.8	23.2	25.2	26.4	26.6	26.7	26.5	25.6	25.3	17.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	21.5	24.8	26.0	28.9	30.9	31.6	32.5	32.5	31.5	31.2	100.0
Oil	12.2	14.8	14.6	18.0	19.4	16.8	14.9	13.7	13.0	12.9	41.2
Gas	9.3	10.1	11.4	11.0	11.5	14.8	17.6	18.8	18.5	18.3	58.6
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	0.1	0.1	0.2
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	125.3	132.1	132.4	145.2	154.2	150.0	149.3	148.0	149.4	144.5	100.0
Industry	43.8	41.4	42.0	48.3	49.3	47.8	47.3	48.2	48.2	51.3	35.5
Transport	38.9	42.3	43.1	45.6	49.1	48.9	47.8	45.5	45.7	39.5	27.3
Residential/Commercial	16.9	19.9	20.4	22.4	24.3	24.5	24.6	24.1	23.3	23.0	15.9
Oil final consumption, by sector	78.3	81.1	81.3	87.5	94.7	96.1	98.9	95.8	97.4	91.9	100.0
Industry	16.7	13.6	14.9	16.6	17.6	22.0	25.3	24.0	23.5	25.9	28.2
Transport	38.9	42.3	43.1	45.6	49.1	48.9	47.8	45.5	45.7	39.5	43.0
Residential/Commercial	1.9	1.7	1.6	1.5	1.7	1.8	1.8	1.8	1.9	1.8	1.9
Natural gas final consumption, by sector	28.9	29.3	27.9	32.6	33.1	27.4	23.6	25.7	26.4	27.3	100.0
Industry	24.3	24.6	23.1	27.7	28.4	22.3	18.5	20.4	21.0	21.7	79.4
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	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	74.1	80.6	81.0	86.8	94.4	94.2	98.2	95.1	96.7	91.2	100.0
Gasoline	20.4	22.1	23.1	23.9	25.6	25.5	26.1	24.4	24.3	20.2	22.2
Diesel	21.1	23.3	23.2	24.9	26.8	26.2	23.8	22.5	22.9	21.4	23.4
Heating Oil	9.2	9.3	10.7	12.0	13.0	16.5	21.6	20.9	20.5	22.8	25.0
Aviation Jet	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.3	0.4
LPG	3.7	5.1	4.3	4.7	7.7	4.1	4.3	4.5	4.4	4.4	4.9
Imports	10.4	16.9	24.8	24.2	30.2	28.9	25.3	43.4	18.7	20.7	100.0
Oil	10.4	16.9	24.8	24.2	30.2	28.9	25.3	43.4	18.7	20.7	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	2.4	4.2	6.1	7.2	10.1	9.4	9.1	15.0	5.3	5.8	27.9
Diesel	6.1	8.5	12.5	11.9	12.6	11.1	4.5	9.9	1.0	0.5	2.2
Heating Oil	1.2	3.2	5.4	3.2	5.2	7.2	10.1	16.0	10.7	12.5	60.0
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	416.2	442.2	444.2	431.9	453.8	485.4	451.0	492.5	441.9	415.7	100.0
Oil	416.2	442.2	444.2	431.9	453.8	485.4	451.0	492.5	441.9	415.7	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	3.2	2.0	1.7	4.5	7.6	9.7	8.7	15.2	6.1	5.2	1.2
Diesel	4.1	5.0	5.3	12.3	20.3	29.1	30.6	41.8	30.9	25.7	6.2
Heating Oil	5.8	9.8	9.6	5.3	4.8	3.6	4.5	10.4	4.5	2.2	0.5
Aviation Jet	0.2	0.3	0.3	0.7	0.2	0.7	0.3	0.3	0.2	0.2	0.0
LPG	25.4	26.1	25.1	25.8	22.9	28.4	27.8	28.5	24.0	24.6	5.9
CO₂ Emissions (Million tons CO₂)	451.1	481.7	488.6	525.0	550.7	546.8	535.9	511.4	508.3	491.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	344.8	349.3	345.0	357.7	360.4	351.9	347.5	323.8	320.7	323.2	-
Final energy intensity (toe/million \$15ppp)	76.4	75.4	74.8	79.5	80.5	78.2	77.9	74.8	74.2	75.1	-
Total energy intensity (toe/million \$15ppp)	140.5	136.8	132.5	140.8	141.6	138.3	141.9	135.2	135.7	137.6	-

*Heat is included

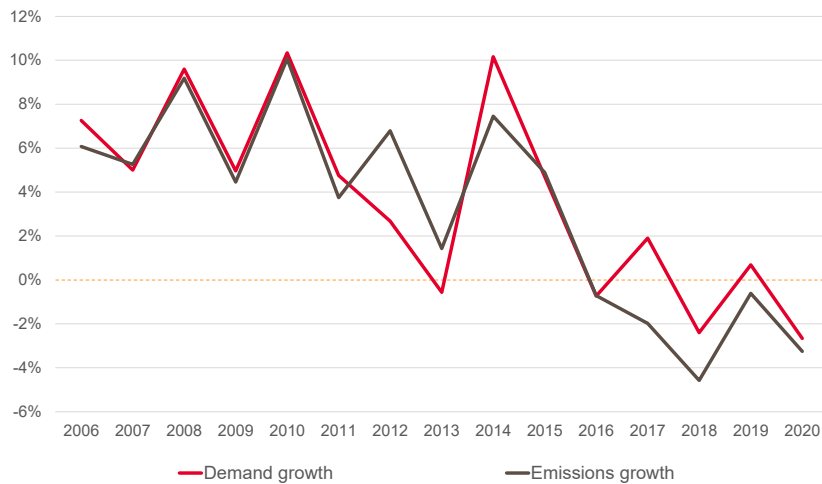
Primary energy demand mix



Electricity generation by source



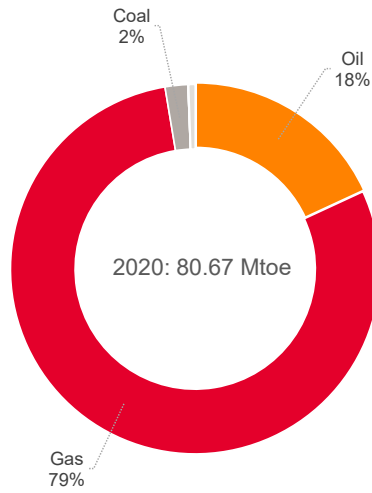
Primary energy demand and CO₂ emissions growth



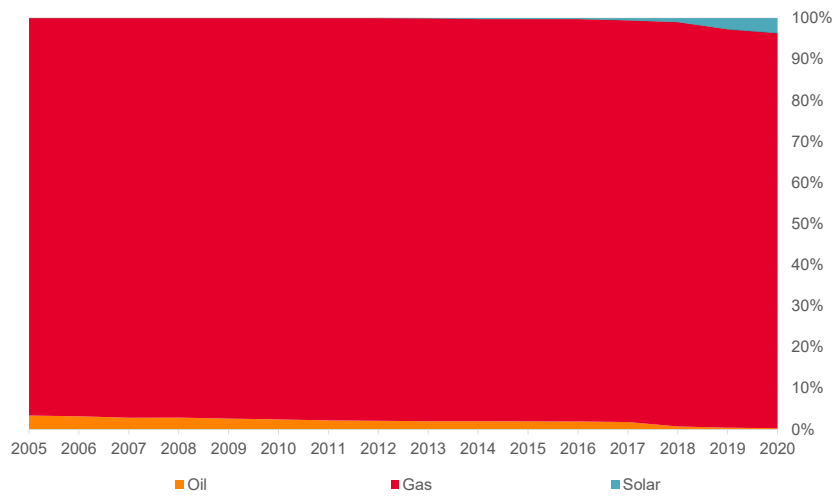
United Arab Emirates											
<i>(Million toe)</i>	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	60.3	64.0	67.5	74.0	75.8	79.3	78.3	77.9	83.1	80.7	100.0
Oil	8.7	8.9	11.0	18.2	13.8	16.8	14.9	16.0	15.8	14.6	18.1
Gas	51.1	53.6	54.7	53.7	60.1	60.5	61.1	59.8	65.1	63.9	79.3
Coal	0.4	1.4	1.8	2.0	1.7	1.8	2.1	1.9	1.8	1.6	2.0
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	0.1
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.6
Electricity balance of trade*	-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 source	47.5	51.5	54.8	52.7	57.2	59.3	62.1	59.5	63.3	61.0	100.0
Oil	13.6	14.5	16.3	15.7	15.2	16.7	18.9	17.8	17.7	16.2	26.7
Gas	25.7	27.4	27.9	25.7	30.3	30.6	30.6	29.2	33.0	32.4	53.2
Coal	0.4	1.4	1.8	2.0	1.7	1.8	2.1	1.9	1.8	1.6	2.6
Electricity	7.7	8.2	8.7	9.3	9.9	10.1	10.5	10.6	10.8	10.6	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	0.1
Electricity generation, by source	8.5	9.1	9.5	10.0	11.0	11.1	11.6	11.7	11.9	11.8	100.0
Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.3
Gas	8.3	8.9	9.3	9.8	10.7	10.9	11.3	11.5	11.5	11.4	96.1
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	0.1	0.1	0.3	0.4	3.6
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	47.5	51.5	54.8	52.7	57.2	59.3	62.1	59.5	63.3	61.0	100.0
Industry	27.9	30.4	31.6	29.6	34.2	34.8	35.0	33.5	37.3	36.3	59.6
Transport	10.1	10.3	11.7	12.0	10.4	11.7	13.8	12.8	12.2	11.2	18.4
Residential/Commercial	7.2	7.8	8.2	8.6	9.1	9.3	9.7	9.7	9.9	9.8	16.1
Oil final consumption, by sector	13.6	14.5	16.3	15.7	15.2	16.7	18.9	17.8	17.7	16.2	100.0
Industry	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.6	1.5	9.2
Transport	10.1	10.3	11.7	12.0	10.4	11.7	13.8	12.8	12.2	11.2	69.1
Residential/Commercial	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	1.7
Natural gas final consumption, by sector	25.7	27.4	27.9	25.7	30.3	30.6	30.6	29.2	33.0	32.4	100.0
Industry	25.5	27.1	27.7	25.4	30.1	30.4	30.3	29.0	32.7	32.1	99.1
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	13.6	14.5	16.3	15.7	15.2	16.7	18.9	17.8	17.7	16.2	100.0
Gasoline	5.5	5.9	7.3	7.7	7.2	8.0	10.0	9.3	8.7	8.0	49.2
Diesel	4.4	4.2	4.1	4.0	2.9	3.4	3.5	3.0	3.1	2.9	17.6
Heating Oil	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.6	1.5	8.9
Aviation Jet	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	2.3
LPG	1.2	1.4	1.7	1.3	1.8	1.9	1.9	1.7	1.7	1.6	9.5
Imports	33.0	33.4	37.0	36.0	37.4	35.5	40.0	40.5	40.3	38.5	100.0
Oil	18.2	17.7	20.7	19.8	19.9	18.3	22.6	24.6	23.7	22.1	57.4
Gas	14.8	15.7	16.3	16.2	17.5	17.2	17.4	15.9	16.7	16.4	42.6
Gasoline	2.7	2.6	4.5	4.1	3.4	4.3	6.8	8.9	9.3	8.5	22.1
Diesel	0.9	0.7	1.4	0.5	2.4	0.7	0.2	0.6	0.2	0.2	0.4
Heating Oil	13.9	14.2	14.2	14.5	13.8	11.7	8.2	8.3	6.9	6.3	16.3
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	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Exports	152.1	158.0	167.1	154.6	167.9	170.5	181.2	184.7	190.6	174.0	100.0
Oil	146.0	151.9	161.3	148.2	161.7	164.4	175.5	178.7	184.3	167.9	96.5
Gas	6.1	6.0	5.8	6.4	6.2	6.1	5.8	6.0	6.2	6.1	3.5
Gasoline	0.0	0.0	0.0	0.0	0.9	2.8	3.1	3.3	5.3	4.9	2.8
Diesel	1.0	0.6	1.0	0.7	5.6	5.7	7.3	8.7	10.1	9.3	5.3
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	4.0	4.0	4.5	2.6	3.4	4.6	5.5	6.1	5.8	5.3	3.1
LPG	5.4	6.9	7.7	5.7	8.2	9.2	8.7	8.0	5.2	4.8	2.7
CO₂ Emissions (Million tons CO₂)	160.3	171.1	177.8	176.8	187.6	193.2	201.9	193.8	192.1	185.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	323.7	330.6	327.1	311.9	314.8	314.6	327.2	308.7	300.9	310.8	-
Final energy intensity (toe/million \$15ppp)	91.3	93.8	94.7	88.6	90.4	90.9	94.8	89.2	93.2	96.3	-
Total energy intensity (toe/million \$15ppp)	121.7	123.7	124.2	130.5	127.2	129.1	126.8	124.1	130.1	135.3	-

*Heat is included

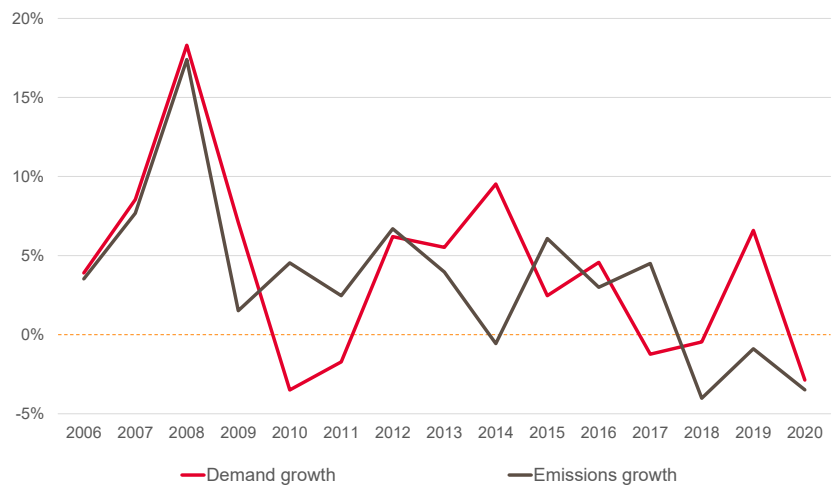
Primary energy demand mix



Electricity generation by source



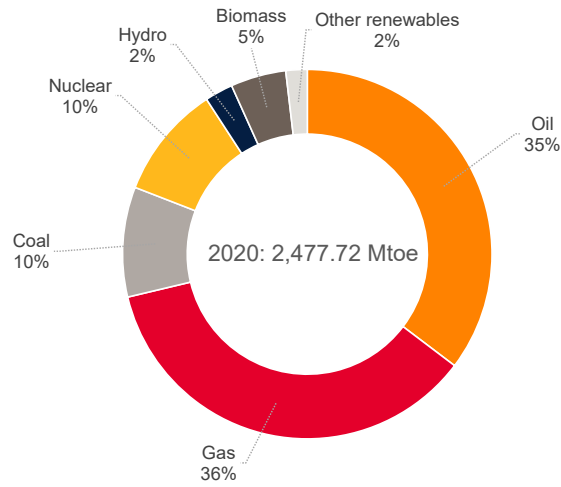
Primary energy demand and CO₂ emissions growth



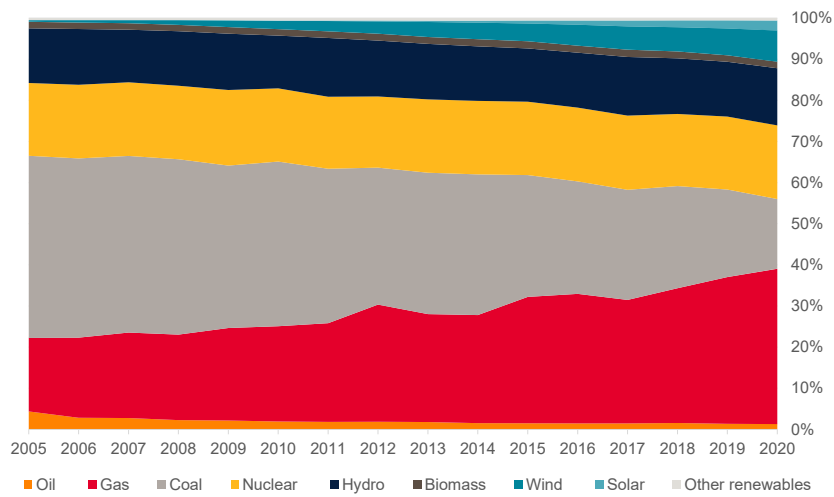
North America (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	2,645.7	2,613.5	2,657.2	2,687.0	2,660.2	2,640.7	2,636.2	2,715.0	2,690.6	2,477.7	100.0
Oil	978.3	976.1	972.1	973.1	988.9	976.0	982.5	993.5	989.2	868.9	35.1
Gas	708.1	737.7	756.1	776.6	799.0	817.3	810.2	880.1	907.0	884.4	35.7
Coal	514.5	456.7	464.4	464.8	404.2	372.8	360.8	347.8	300.3	236.7	9.6
Nuclear	241.1	235.8	244.3	246.9	245.9	248.1	247.8	249.1	249.2	244.4	9.9
Hydro	63.1	59.4	59.4	58.7	57.1	59.0	62.7	61.4	59.9	60.7	2.4
Biomass	112.9	117.6	126.0	128.8	124.6	122.9	124.3	130.5	128.2	119.5	4.8
Other renewables	12.0	14.4	18.0	20.7	23.0	28.0	32.2	35.5	39.9	45.8	1.8
Electricity balance of trade*	15.8	15.8	16.9	17.3	17.4	16.6	15.7	17.1	16.9	17.4	0.7
Total final consumption, by source	1,777.9	1,748.0	1,796.0	1,818.8	1,813.0	1,817.6	1,827.9	1,906.0	1,901.3	1,734.9	100.0
Oil	886.6	875.2	883.8	887.8	905.9	912.2	912.9	933.9	930.1	815.0	47.0
Gas	364.6	351.6	379.7	395.2	377.9	376.9	388.7	423.4	428.8	403.7	23.3
Coal	39.8	35.5	35.5	34.0	31.7	27.1	28.2	28.2	26.6	22.5	1.3
Electricity	387.4	383.6	387.4	391.0	390.5	394.0	390.8	405.2	401.0	386.0	22.2
Heat	9.7	9.7	9.1	9.2	8.9	9.9	9.0	10.8	10.9	11.2	0.6
Biomass	89.7	92.4	100.5	101.6	98.1	97.5	98.3	104.6	103.9	96.5	5.6
Electricity generation, by source	454.6	449.8	452.5	455.9	454.6	456.4	453.3	468.3	463.1	450.0	100.0
Oil	8.2	8.3	8.0	6.9	6.7	6.6	6.6	7.2	6.2	5.9	1.3
Gas	109.1	128.2	118.8	119.8	139.6	143.8	136.0	153.5	165.3	169.9	37.8
Coal	170.7	149.8	155.6	155.9	134.7	124.8	121.5	116.3	98.6	76.3	17.0
Nuclear	79.6	77.8	80.6	81.5	81.2	81.9	81.8	82.2	82.2	80.7	17.9
Hydro	65.1	61.1	61.1	60.5	58.8	60.9	64.7	63.3	61.6	62.4	13.9
Biomass	7.3	7.5	7.7	7.9	7.8	7.8	7.9	7.8	7.4	7.2	1.6
Wind	11.4	13.5	16.5	18.3	19.7	23.3	25.7	27.7	30.1	34.1	7.6
Solar	0.6	1.0	1.5	2.4	3.3	4.7	6.5	7.8	9.2	11.0	2.5
Other renewables	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.5	0.6
Total final consumption, by sector	1,777.9	1,748.0	1,796.0	1,818.8	1,813.0	1,817.6	1,827.9	1,906.0	1,901.3	1,734.9	100.0
Industry	351.7	354.2	354.0	352.4	351.9	352.7	352.3	368.4	368.7	346.5	20.0
Transport	678.7	672.5	691.2	690.9	711.6	720.7	726.1	739.4	735.7	631.6	36.4
Residential/Commercial	559.4	526.6	563.8	579.0	558.8	551.0	549.8	593.1	587.9	556.1	32.1
Oil final consumption, by sector	886.6	875.2	883.8	887.8	905.9	912.2	912.9	933.9	930.1	815.0	100.0
Industry	30.6	30.4	30.2	27.4	30.2	31.8	29.8	31.7	31.6	26.9	3.3
Transport	648.9	637.2	652.6	651.8	671.9	678.1	682.0	696.0	692.3	592.6	72.7
Residential/Commercial	41.5	36.1	37.4	35.5	37.5	36.7	34.5	34.8	33.3	30.3	3.7
Natural gas final consumption, by sector	364.6	351.6	379.7	395.2	377.9	376.9	388.7	423.4	428.8	403.7	100.0
Industry	137.7	144.2	144.1	148.2	148.2	152.3	153.2	163.2	166.1	161.3	40.0
Transport	0.7	0.8	0.7	0.9	1.0	1.1	1.3	1.3	1.4	1.4	0.3
Residential/Commercial	207.8	186.8	215.0	226.0	207.4	199.0	204.4	228.7	229.2	209.3	51.9
Refined products consumption	884.6	873.1	881.4	885.3	901.6	909.2	908.5	928.2	924.5	810.1	100.0
Gasoline	433.1	429.4	434.8	436.2	448.3	456.2	452.7	457.2	454.7	389.9	48.1
Diesel	227.5	223.3	223.2	230.5	225.6	221.7	225.1	233.1	228.5	208.0	25.7
Heating Oil	8.2	6.8	3.4	2.5	4.9	4.0	3.8	3.3	3.4	2.7	0.3
Aviation Jet	52.8	53.1	54.6	55.7	58.1	60.6	64.2	65.6	67.1	42.4	5.2
LPG	45.7	46.8	52.1	48.4	49.8	48.5	46.2	49.7	51.0	50.0	6.2
Imports	807.1	759.1	697.3	663.3	691.3	742.4	751.7	747.6	698.2	606.3	100.0
Oil	686.0	641.5	586.3	559.1	581.7	620.3	624.6	623.0	565.2	491.3	81.0
Gas	121.1	117.7	111.0	104.2	109.6	122.1	127.1	124.5	132.9	115.0	19.0
Gasoline	56.7	53.1	50.3	48.8	55.0	60.7	58.3	63.5	63.7	61.4	10.1
Diesel	15.3	14.4	15.5	18.8	20.5	19.9	22.8	27.6	24.4	20.7	3.4
Heating Oil	21.1	19.3	16.4	12.9	13.2	13.8	14.3	15.4	11.3	11.1	1.8
Aviation Jet	6.5	5.8	6.9	8.1	11.0	12.1	12.9	12.4	14.9	10.2	1.7
LPG	7.0	7.2	7.3	7.2	8.3	10.4	12.1	13.3	12.7	10.7	1.8
Exports	471.6	486.6	505.7	544.0	580.4	627.2	709.2	788.5	859.4	866.8	100.0
Oil	360.0	376.0	400.5	443.5	474.1	505.8	564.2	636.8	687.8	684.1	78.9
Gas	111.5	110.6	105.2	100.5	106.4	121.4	145.0	151.7	171.7	182.7	21.1
Gasoline	29.6	29.7	29.8	31.8	35.9	43.1	46.8	50.5	42.1	37.0	4.3
Diesel	50.0	58.3	64.8	61.5	65.8	66.3	76.8	70.9	75.4	69.9	8.1
Heating Oil	31.4	28.3	29.0	30.6	27.3	25.4	25.3	26.5	18.5	15.1	1.7
Aviation Jet	5.6	7.0	8.3	8.5	8.8	9.2	10.4	12.3	12.1	5.1	0.6
LPG	0.5	0.6	0.7	17.6	24.8	31.4	35.9	39.8	45.4	52.0	6.0
CO₂ Emissions (Million tons CO₂)	6,259.8	6,074.2	6,177.3	6,205.4	6,065.5	5,967.3	5,919.0	6,096.4	5,953.6	5,290.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	326.7	311.9	295.7	295.3	289.3	275.2	266.3	258.3	258.9	248.2	-
Final energy intensity (toe/million \$15ppp)	91.7	88.6	85.1	85.9	84.8	82.3	81.1	79.8	80.9	79.3	-
Total energy intensity (toe/million \$15ppp)	134.9	131.8	127.2	127.0	125.3	120.7	117.9	115.1	115.3	112.2	-

*Heat is included

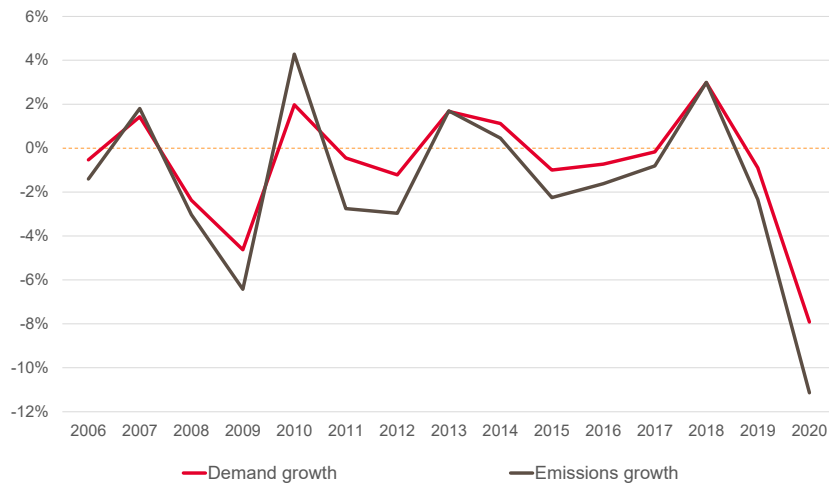
Primary energy demand mix



Electricity generation by source



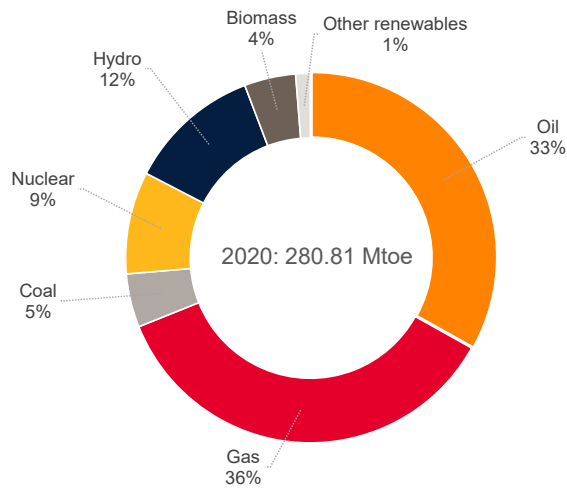
Primary energy demand and CO₂ emissions growth



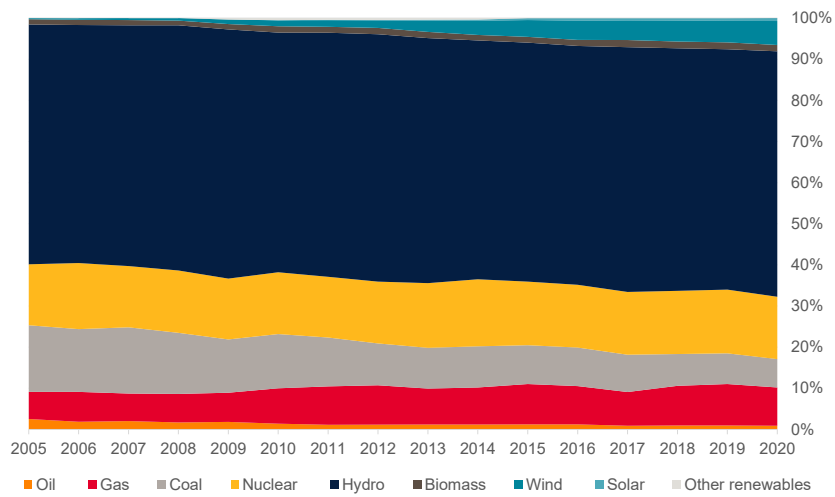
Canada (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	267.3	269.4	274.9	282.0	283.0	287.3	295.2	298.1	301.1	280.8	100.0
Oil	95.9	97.9	95.6	99.1	105.1	99.6	102.0	104.1	106.9	94.5	33.7
Gas	82.4	83.7	87.6	88.7	87.9	98.5	103.8	106.5	107.4	102.4	36.5
Coal	20.8	19.5	19.3	20.4	18.6	18.9	17.5	15.3	14.7	13.4	4.8
Nuclear	24.4	24.7	27.0	28.0	26.5	26.4	26.4	26.3	26.4	25.6	9.1
Hydro	32.3	32.7	33.7	32.9	32.9	33.1	33.9	33.2	32.8	33.3	11.8
Biomass	13.5	13.6	14.3	14.6	14.4	13.1	13.8	13.7	13.5	12.8	4.6
Other renewables	0.9	1.0	1.7	2.1	2.6	3.0	3.0	3.2	3.3	3.6	1.3
Electricity balance of trade*	-2.9	-3.8	-4.2	-3.7	-5.1	-5.4	-5.3	-4.1	-4.0	-4.8	-1.7
Total final consumption, by source	193.1	192.9	194.6	195.6	195.1	192.4	196.6	202.7	202.2	183.6	100.0
Oil	90.9	92.7	91.4	89.8	91.2	92.6	92.3	95.0	94.6	80.8	44.0
Gas	43.6	42.2	44.1	45.4	44.5	42.4	44.8	47.3	47.4	45.0	24.5
Coal	4.5	4.4	3.8	3.7	3.3	3.3	3.5	3.5	3.3	2.8	1.5
Electricity	42.2	41.7	42.7	43.4	43.2	42.7	44.3	45.3	45.6	44.1	24.0
Heat	0.7	0.7	0.7	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.3
Biomass	11.1	11.2	11.8	12.3	12.1	10.6	10.9	10.9	10.7	10.3	5.6
Electricity generation, by source	54.5	54.4	56.6	56.7	56.6	57.1	57.0	56.3	56.2	55.8	100.0
Oil	0.6	0.6	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.9
Gas	5.1	5.2	4.9	5.1	5.6	5.3	4.7	5.4	5.7	5.2	9.3
Coal	6.5	5.5	5.6	5.7	5.3	5.3	5.2	4.3	4.2	3.9	6.9
Nuclear	8.0	8.2	8.9	9.2	8.8	8.7	8.7	8.7	8.7	8.4	15.1
Hydro	32.3	32.7	33.7	32.9	32.9	33.2	33.9	33.2	32.8	33.3	59.7
Biomass	0.8	0.8	0.9	0.8	0.8	0.8	1.0	0.9	0.9	0.9	1.5
Wind	0.9	1.0	1.6	1.9	2.3	2.7	2.7	2.9	2.9	3.2	5.8
Solar	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.7
Other renewables	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	193.1	192.9	194.6	195.6	195.1	192.4	196.6	202.7	202.2	183.6	100.0
Industry	45.2	45.2	45.5	46.2	45.9	44.2	45.8	46.3	46.4	43.7	23.8
Transport	59.3	60.0	61.5	60.7	60.4	60.7	62.9	64.9	65.4	54.7	29.8
Residential/Commercial	58.7	56.3	58.4	60.5	59.1	56.9	59.5	62.1	62.1	59.4	32.3
Oil final consumption, by sector	90.9	92.7	91.4	89.8	91.2	92.6	92.3	95.0	94.6	80.8	100.0
Industry	4.6	4.6	4.4	4.1	4.7	4.8	5.3	5.3	5.4	4.8	6.0
Transport	57.5	58.2	59.5	58.6	58.4	58.7	60.6	62.6	63.2	52.6	65.2
Residential/Commercial	4.3	4.1	3.7	3.6	3.5	3.3	3.1	3.0	2.9	2.6	3.2
Natural gas final consumption, by sector	43.6	42.2	44.1	45.4	44.5	42.4	44.8	47.3	47.4	45.0	100.0
Industry	13.9	14.3	14.9	14.8	14.5	14.2	14.7	15.0	15.1	14.7	32.6
Transport	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	25.5	23.6	25.3	27.0	25.8	24.1	26.1	28.0	28.1	26.2	58.2
Refined products consumption	90.9	92.7	91.4	89.8	91.2	92.6	92.3	95.0	94.6	80.8	100.0
Gasoline	33.8	33.9	34.8	34.2	34.9	36.2	36.2	37.4	37.8	32.5	40.3
Diesel	28.0	27.1	27.3	27.3	27.1	25.7	27.5	28.1	27.0	25.3	31.4
Heating Oil	2.2	2.2	1.8	1.7	1.5	1.4	1.3	1.2	1.6	1.2	1.5
Aviation Jet	4.2	5.0	5.4	5.3	5.4	5.8	6.3	6.8	7.1	3.1	3.8
LPG	3.5	3.6	3.1	2.8	2.7	2.8	3.0	2.9	3.4	2.5	3.1
Imports	81.3	84.1	78.8	74.5	80.1	82.3	77.9	76.4	74.7	62.4	100.0
Oil	55.3	58.0	56.5	56.2	63.5	65.3	56.9	57.1	54.4	44.2	70.8
Gas	26.0	26.1	22.3	18.3	16.6	17.1	21.0	19.3	20.2	18.2	29.2
Gasoline	4.4	3.1	2.6	2.6	3.1	4.0	3.7	4.3	1.8	1.3	2.1
Diesel	1.7	0.7	1.2	1.5	1.9	2.1	1.1	2.2	1.5	1.0	1.6
Heating Oil	0.4	0.7	1.1	1.0	0.6	0.7	0.8	0.6	0.7	0.5	0.8
Aviation Jet	3.3	2.5	2.4	2.6	3.0	2.8	2.5	3.1	3.4	1.2	1.9
LPG	0.4	0.2	0.1	0.2	0.1	0.3	0.3	0.2	0.2	0.0	0.0
Exports	214.0	225.1	234.1	240.4	250.8	261.3	273.5	285.7	283.2	268.6	100.0
Oil	137.2	151.6	165.0	174.6	185.2	192.5	202.9	218.7	219.9	210.3	78.3
Gas	76.8	73.5	69.1	65.8	65.6	68.7	70.6	67.0	63.2	58.3	21.7
Gasoline	6.0	6.3	6.6	6.5	7.7	7.8	8.7	7.0	1.9	1.4	0.5
Diesel	6.4	8.0	8.1	6.5	6.9	6.8	8.2	6.5	9.7	9.6	3.6
Heating Oil	2.8	3.7	4.4	3.5	3.0	2.9	2.8	3.6	1.8	0.8	0.3
Aviation Jet	0.3	0.4	0.5	0.4	0.5	0.5	1.2	1.2	1.1	0.4	0.2
LPG	0.5	0.5	0.6	0.7	0.4	0.2	0.2	0.1	0.2	0.1	0.0
CO₂ Emissions (Million tons CO₂)	558.5	559.9	568.0	570.2	570.2	561.1	572.0	582.1	579.6	515.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	242.5	236.5	230.2	218.7	216.3	213.0	209.9	203.0	197.1	175.9	-
Final energy intensity (toe/million \$15ppp)	114.8	111.7	111.8	110.1	108.2	104.8	105.8	107.0	105.4	101.2	-
Total energy intensity (toe/million \$15ppp)	181.2	179.5	179.0	178.5	177.8	178.6	178.2	176.6	175.5	173.0	-

*Heat is included

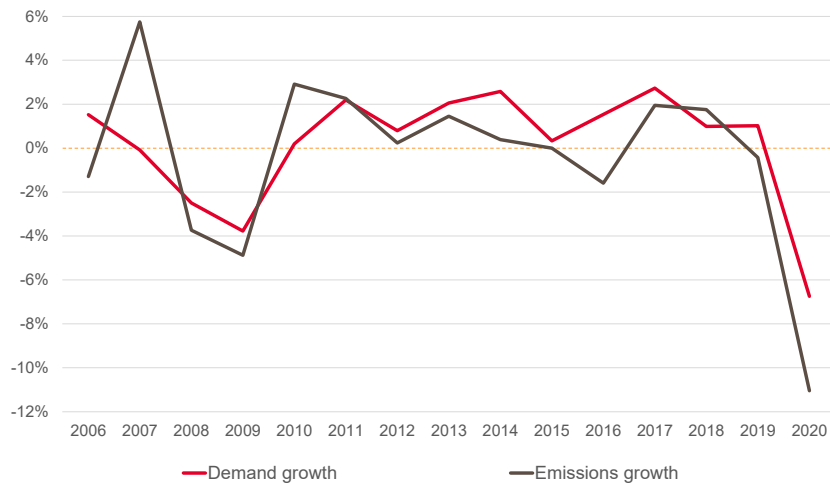
Primary energy demand mix



Electricity generation by source



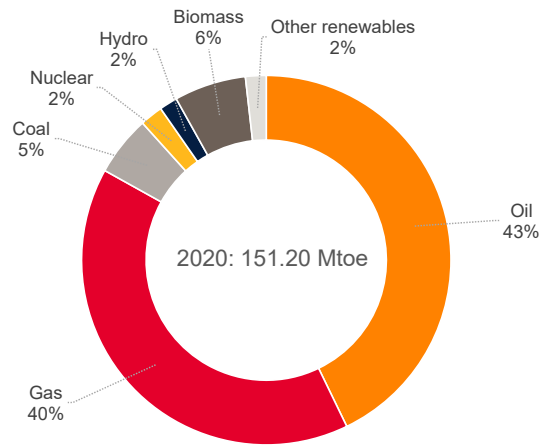
Primary energy demand and CO₂ emissions growth



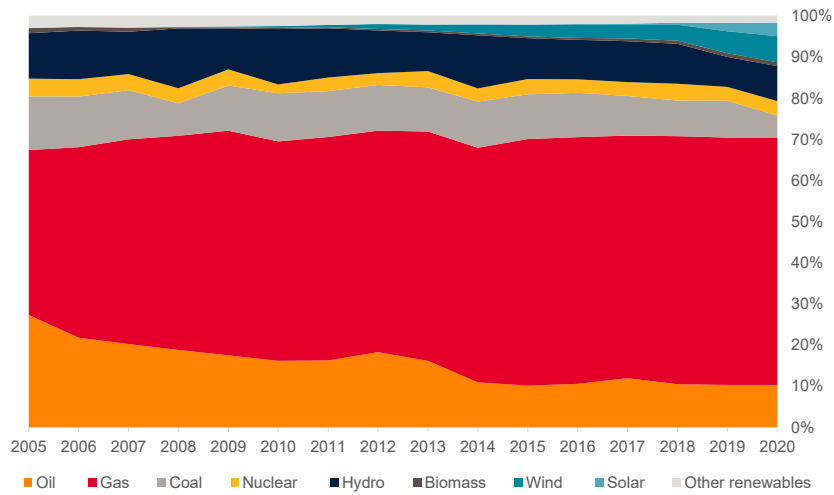
Mexico (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	187.0	191.8	192.1	188.4	185.0	184.9	180.1	180.7	175.9	151.2	100.0
Oil	97.8	102.6	98.9	96.8	90.4	88.0	85.9	83.5	76.9	63.5	42.0
Gas	57.1	59.3	62.2	60.5	64.7	66.2	62.6	65.2	67.5	59.7	39.5
Coal	14.5	12.7	12.9	12.7	11.4	12.4	12.7	12.0	11.9	7.8	5.2
Nuclear	2.6	2.3	3.1	2.5	3.0	2.8	2.8	3.6	2.9	3.0	2.0
Hydro	3.1	2.7	2.4	3.3	2.7	2.6	2.8	2.8	2.1	2.4	1.6
Biomass	8.0	8.4	9.0	8.7	8.6	8.7	9.1	9.2	9.2	9.3	6.2
Other renewables	0.1	0.3	0.4	0.6	0.8	0.9	1.0	1.3	2.1	2.7	1.8
Electricity balance of trade*	3.6	3.4	3.3	3.2	3.4	3.4	3.3	3.1	3.2	2.8	1.9
Total final consumption, by source	121.4	120.4	120.9	120.1	121.1	123.4	123.9	126.2	120.4	105.2	100.0
Oil	74.2	73.3	72.3	73.1	72.7	75.2	73.0	73.7	68.0	56.4	53.6
Gas	14.1	14.7	15.5	14.8	14.5	15.1	16.0	16.6	17.4	15.1	14.3
Coal	5.7	3.8	4.6	3.4	4.6	2.6	4.2	4.0	3.8	3.1	2.9
Electricity	20.1	21.3	20.8	21.7	22.1	23.3	23.4	24.4	24.0	23.4	22.2
Heat	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
Biomass	7.2	7.1	7.6	7.0	6.9	6.9	7.2	7.3	6.8	7.0	6.7
Electricity generation, by source	26.0	26.4	25.6	25.9	26.7	27.6	27.7	28.9	28.5	27.7	100.0
Oil	4.2	4.8	4.1	2.8	2.7	2.9	3.3	3.0	2.9	2.9	10.3
Gas	14.1	14.2	14.3	14.8	16.0	16.5	16.3	17.4	17.1	16.6	60.1
Coal	2.9	2.9	2.7	2.9	2.9	3.0	2.7	2.5	2.5	1.5	5.4
Nuclear	0.9	0.8	1.0	0.8	1.0	0.9	0.9	1.2	1.0	1.0	3.5
Hydro	3.1	2.7	2.4	3.3	2.7	2.6	2.8	2.8	2.1	2.4	8.5
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.9
Wind	0.1	0.3	0.4	0.6	0.8	0.9	0.9	1.1	1.5	1.8	6.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	0.9	3.3
Other renewables	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	1.6
Total final consumption, by sector	121.4	120.4	120.9	120.1	121.1	123.4	123.9	126.2	120.4	105.2	100.0
Industry	36.5	36.2	37.3	35.1	36.6	36.6	38.8	38.8	38.7	35.2	33.4
Transport	51.4	51.7	51.1	51.3	51.1	52.9	51.4	53.3	49.4	37.8	35.9
Residential/Comercial	22.8	23.0	23.0	23.6	24.1	24.3	24.2	24.9	23.9	23.7	22.5
Oil final consumption, by sector	74.2	73.3	72.3	73.1	72.7	75.2	73.0	73.7	68.0	56.4	100.0
Industry	5.9	5.9	5.8	5.7	6.2	7.0	6.4	5.7	5.2	5.2	9.3
Transport	51.3	51.6	51.0	51.2	51.0	52.8	51.3	53.1	49.2	37.7	66.8
Residential/Comercial	8.0	8.1	7.7	7.7	7.6	7.4	7.3	7.3	6.7	6.4	11.4
Natural gas final consumption, by sector	14.1	14.7	15.5	14.8	14.5	15.1	16.0	16.6	17.4	15.1	100.0
Industry	12.4	13.0	13.8	12.9	12.9	13.5	14.5	15.0	15.8	13.5	89.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3
Residential/Comercial	1.0	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.2	7.8
Refined products consumption	74.2	73.3	72.3	73.1	72.7	75.2	73.0	73.7	68.0	56.4	100.0
Gasoline	35.7	35.9	35.2	34.7	35.4	36.8	35.6	38.1	35.9	28.5	50.5
Diesel	19.0	19.6	19.0	19.5	19.0	19.6	18.6	18.1	15.9	11.6	20.6
Heating Oil	1.1	1.2	0.6	0.5	0.5	0.8	0.7	0.3	0.2	0.1	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	9.9	9.8	10.1	10.1	9.9	9.9	9.9	10.0	9.2	8.8	15.6
Imports	47.4	51.7	51.2	54.1	65.2	78.6	87.0	96.3	97.1	71.8	100.0
Oil	32.9	32.8	29.2	30.5	35.1	43.1	51.3	57.7	50.1	36.4	50.8
Gas	14.5	18.9	22.0	23.6	30.2	35.6	35.7	38.6	47.0	35.3	49.2
Gasoline	17.6	17.3	15.5	16.1	18.6	22.0	23.2	25.8	22.8	16.7	23.3
Diesel	6.8	6.7	5.4	6.7	7.4	9.5	12.9	15.2	11.3	7.2	10.1
Heating Oil	1.4	2.4	1.7	0.7	0.9	1.4	2.2	2.2	1.7	0.6	0.8
Aviation Jet	0.0	0.2	0.2	0.6	1.1	1.6	2.1	2.7	2.7	1.1	1.5
LPG	3.0	3.3	3.0	3.3	3.9	5.1	6.3	7.0	6.1	6.0	8.3
Exports	85.2	78.7	76.3	74.1	72.0	75.1	73.0	73.3	67.8	70.2	100.0
Oil	85.2	78.7	76.3	74.0	72.0	75.1	73.0	73.2	67.7	70.2	100.0
Gas	0.1	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	0.2	0.1	0.5	0.1	0.3	0.8	0.2	0.2	0.6	0.8	1.1
Heating Oil	5.5	3.8	5.2	7.0	6.8	6.2	5.7	5.3	4.1	6.5	9.3
Aviation Jet	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1
CO₂ Emissions (Million tons CO₂)	464.3	467.0	458.5	443.6	451.3	457.3	456.3	458.5	441.4	370.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	232.4	225.5	218.5	205.6	202.5	199.4	194.9	191.7	185.1	169.8	-
Final energy intensity (toe/million \$15ppp)	57.3	55.5	54.9	52.7	52.0	51.4	50.7	50.8	48.6	46.2	-
Total energy intensity (toe/million \$15ppp)	93.6	92.6	91.5	87.4	83.0	80.6	76.9	75.5	73.8	69.3	-

*Heat is included

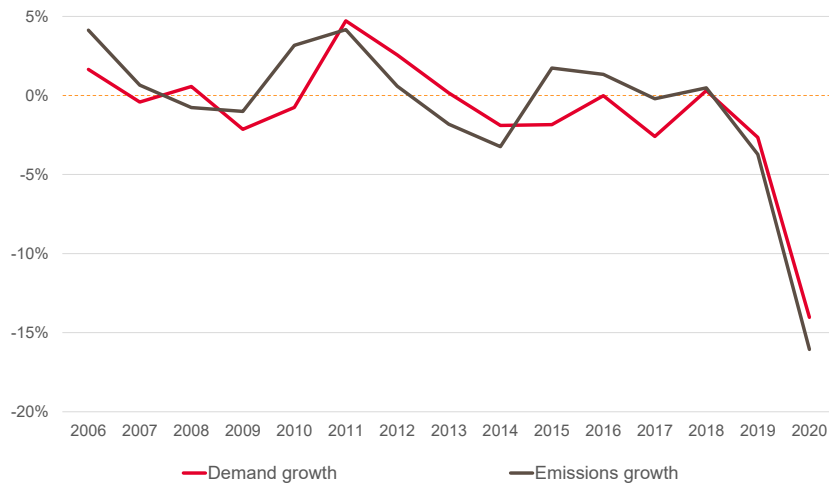
Primary energy demand mix



Electricity generation by source



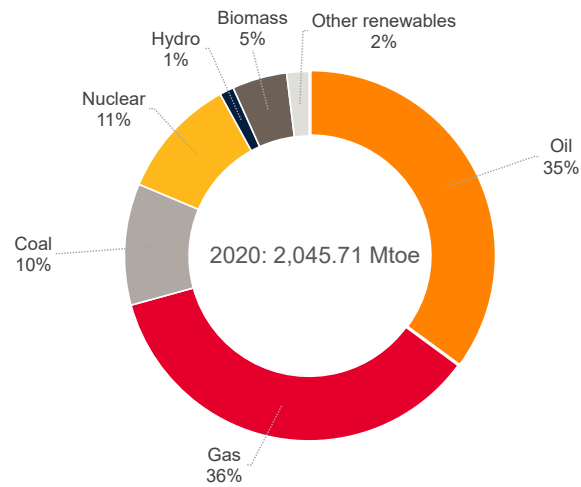
Primary energy demand and CO₂ emissions growth



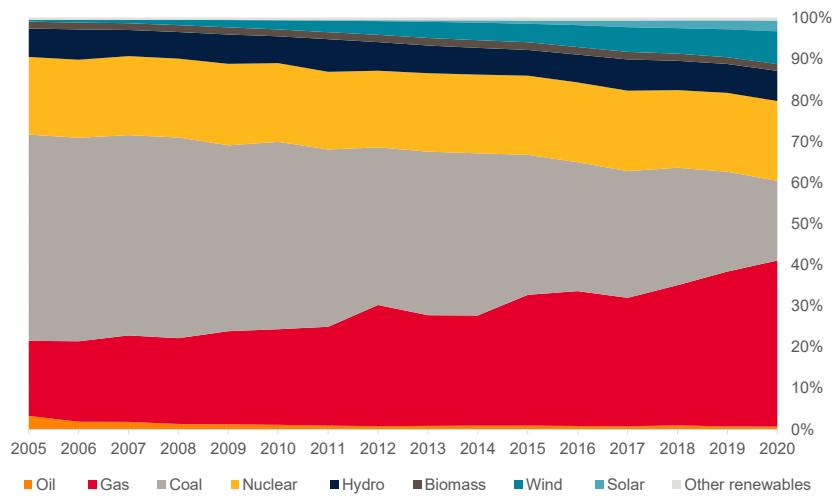
United States (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	2,191.4	2,152.3	2,190.2	2,216.5	2,192.2	2,168.5	2,161.0	2,236.2	2,213.7	2,045.7	100.0
Oil	784.5	775.5	777.6	777.2	793.4	788.5	794.6	805.9	805.4	710.8	34.7
Gas	568.6	594.7	606.4	627.4	646.4	652.6	643.7	708.3	732.0	722.3	35.3
Coal	479.1	424.5	432.1	431.7	374.1	341.5	330.7	320.6	273.7	215.5	10.5
Nuclear	214.1	208.8	214.2	216.5	216.4	218.9	218.6	219.3	219.9	215.8	10.6
Hydro	27.7	24.0	23.3	22.5	21.6	23.2	26.0	25.4	25.0	25.1	1.2
Biomass	91.5	95.6	102.7	105.5	101.5	101.1	101.4	107.6	105.5	97.3	4.8
Other renewables	10.9	13.1	16.0	18.0	19.7	24.1	28.2	31.0	34.5	39.5	1.9
Electricity balance of trade*	15.1	16.1	17.8	17.7	19.1	18.7	17.7	18.1	17.6	19.4	0.9
Total final consumption, by source	1,463.4	1,434.7	1,480.5	1,503.0	1,496.8	1,501.9	1,507.4	1,577.2	1,578.7	1,446.0	100.0
Oil	721.5	709.1	720.1	724.9	741.9	744.4	747.6	765.1	767.5	677.8	46.9
Gas	307.0	294.7	320.0	335.0	318.9	319.4	327.9	359.6	364.0	343.6	23.8
Coal	29.5	27.3	27.1	26.9	23.7	21.2	20.6	20.7	19.5	16.5	1.1
Electricity	325.0	320.5	323.9	325.9	325.2	328.0	323.0	335.5	331.3	318.5	22.0
Heat	8.9	8.8	8.3	8.1	8.0	8.9	8.0	9.8	9.9	10.3	0.7
Biomass	71.4	74.2	81.2	82.3	79.1	79.9	80.2	86.5	86.4	79.3	5.5
Electricity generation, by source	374.1	369.0	370.3	373.3	371.3	371.7	368.6	383.2	378.5	366.6	100.0
Oil	3.4	2.8	3.2	3.4	3.3	3.0	2.8	3.7	2.7	2.5	0.7
Gas	89.9	108.8	99.6	99.9	118.0	122.0	115.0	130.7	142.5	148.1	40.4
Coal	161.3	141.3	147.3	147.3	126.5	116.4	113.6	109.4	91.8	71.0	19.4
Nuclear	70.6	68.9	70.7	71.4	71.4	72.2	72.1	72.4	72.6	71.2	19.4
Hydro	29.6	25.7	24.9	24.2	23.3	25.1	28.0	27.3	26.7	26.8	7.3
Biomass	6.4	6.5	6.7	7.0	6.9	6.8	6.8	6.7	6.2	6.1	1.7
Wind	10.4	12.2	14.6	15.8	16.6	19.7	22.1	23.7	25.7	29.1	7.9
Solar	0.5	0.9	1.4	2.2	3.1	4.3	6.1	7.3	8.3	9.7	2.7
Other renewables	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.1	0.6
Total final consumption, by sector	1,463.4	1,434.7	1,480.5	1,503.0	1,496.8	1,501.9	1,507.4	1,577.2	1,578.7	1,446.0	100.0
Industry	270.0	272.8	271.2	271.1	269.4	272.0	267.7	283.3	283.6	267.6	18.5
Transport	568.0	560.8	578.6	579.0	600.1	607.0	611.7	621.2	620.9	539.1	37.3
Residential/Commercial	477.9	447.2	482.4	494.9	475.6	469.8	466.1	506.1	501.8	472.9	32.7
Oil final consumption, by sector	721.5	709.1	720.1	724.9	741.9	744.4	747.6	765.1	767.5	677.8	100.0
Industry	20.1	19.8	20.1	17.5	19.2	19.9	18.1	20.8	21.0	16.9	2.5
Transport	540.1	527.5	542.0	542.1	562.5	566.6	570.2	580.3	579.9	502.3	74.1
Residential/Commercial	29.2	24.0	26.0	24.2	26.4	26.0	24.1	24.5	23.6	21.3	3.1
Natural gas final consumption, by sector	307.0	294.7	320.0	335.0	318.9	319.4	327.9	359.6	364.0	343.6	100.0
Industry	111.4	117.0	115.4	120.5	120.8	124.6	124.1	133.2	135.2	133.1	38.7
Transport	0.7	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.3	0.4
Residential/Commercial	181.3	162.2	188.7	197.9	180.5	173.8	177.3	199.6	200.0	182.0	53.0
Refined products consumption	719.5	707.0	717.6	722.4	737.6	741.4	743.2	759.5	761.9	673.0	100.0
Gasoline	363.6	359.6	364.8	367.4	377.9	383.3	380.8	381.7	380.9	328.9	48.9
Diesel	180.5	176.7	176.9	183.7	179.5	176.5	179.0	186.9	185.6	171.0	25.4
Heating Oil	4.9	3.3	1.0	0.3	2.9	1.8	1.8	1.9	1.7	1.3	0.2
Aviation Jet	48.6	48.1	49.2	50.4	52.8	54.8	57.9	58.8	60.0	39.3	5.8
LPG	32.3	33.3	38.9	35.6	37.3	35.7	33.3	36.9	38.4	38.7	5.7
Imports	678.4	623.4	567.3	534.7	546.0	581.5	586.8	574.9	526.4	472.1	100.0
Oil	597.8	550.7	500.6	472.4	483.1	511.9	516.4	508.2	460.7	410.7	87.0
Gas	80.6	72.7	66.7	62.3	62.9	69.5	70.4	66.7	65.7	61.4	13.0
Gasoline	34.7	32.8	32.2	30.0	33.3	34.6	31.3	33.4	39.1	43.3	9.2
Diesel	6.8	6.9	8.9	10.6	11.2	8.4	8.8	10.1	11.7	12.4	2.6
Heating Oil	19.3	16.2	13.6	11.2	11.7	11.6	11.3	12.6	8.9	10.0	2.1
Aviation Jet	3.1	3.1	4.4	4.9	6.9	7.6	8.3	6.7	8.8	8.0	1.7
LPG	3.5	3.7	4.2	3.7	4.3	5.0	5.6	6.1	6.4	4.7	1.0
Exports	172.3	182.8	195.2	229.5	257.6	290.8	362.7	429.6	508.5	528.0	100.0
Oil	137.7	145.7	159.2	194.8	216.9	238.2	288.3	344.8	400.1	403.6	76.4
Gas	34.6	37.1	36.0	34.7	40.7	52.7	74.4	84.7	108.4	124.4	23.6
Gasoline	23.7	23.3	23.2	25.3	28.3	35.3	38.1	43.4	40.3	35.6	6.7
Diesel	43.3	50.1	56.3	54.9	58.5	58.7	68.5	64.2	65.1	59.5	11.3
Heating Oil	23.1	20.7	19.4	20.1	17.5	16.3	16.8	17.6	12.6	7.8	1.5
Aviation Jet	5.3	6.6	7.8	8.1	8.3	8.7	9.2	11.1	11.0	4.7	0.9
LPG	0.0	0.0	0.0	17.0	24.4	31.0	35.6	39.6	45.2	51.8	9.8
CO₂ Emissions (Million tons CO₂)	5,237.0	5,047.4	5,150.9	5,191.6	5,044.1	4,948.9	4,890.7	5,055.8	4,932.6	4,404.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	315.5	297.4	298.0	293.2	276.9	267.4	258.6	259.7	248.0	229.5	-
Final energy intensity (toe/million \$15ppp)	80.4	76.5	78.1	76.9	74.8	73.8	72.0	73.3	71.6	67.4	-
Total energy intensity (toe/million \$15ppp)	132.0	126.8	126.7	125.2	120.3	117.2	114.3	114.9	111.3	106.6	-

*Heat is included

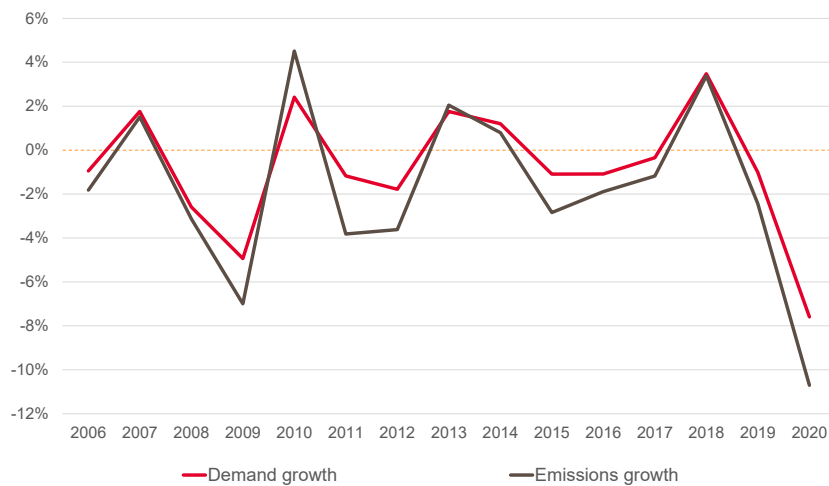
Primary energy demand mix



Electricity generation by source



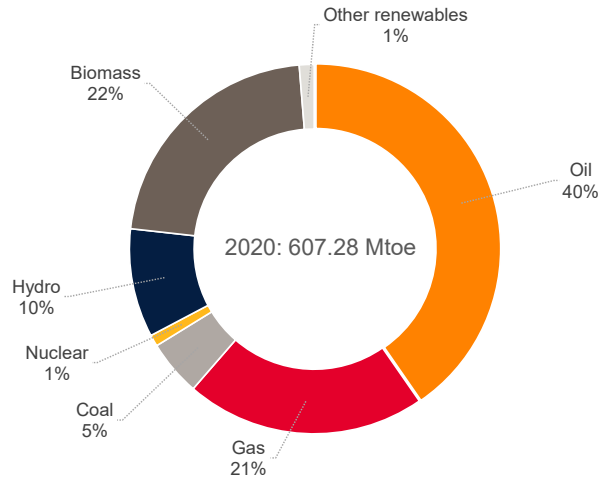
Primary energy demand and CO₂ emissions growth



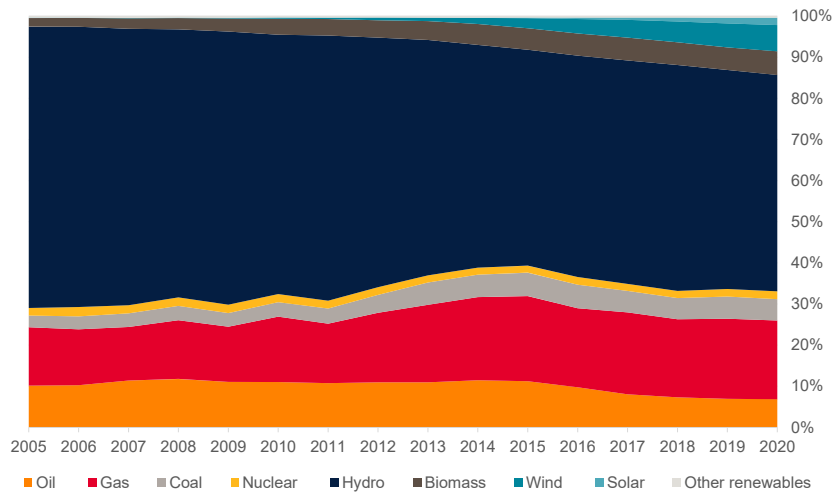
South and Central America											
<i>(Million toe)</i>	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	613.0	632.9	665.5	666.4	664.3	653.5	653.3	637.4	639.1	607.3	100.0
Oil	268.9	275.8	293.2	290.6	282.0	273.9	270.1	252.6	255.9	221.5	40.0
Gas	125.0	133.5	139.9	144.9	144.8	139.7	140.6	136.6	133.1	139.3	20.8
Coal	28.4	28.2	31.9	33.2	34.2	32.8	32.2	31.6	31.0	29.0	4.9
Nuclear	5.7	5.8	5.6	5.4	5.7	6.3	5.7	5.9	6.3	6.4	1.0
Hydro	63.3	62.0	60.8	57.3	57.4	58.9	59.8	61.3	60.3	58.5	9.4
Biomass	117.9	123.0	129.1	129.3	133.2	133.3	135.0	138.1	139.1	142.1	21.8
Other renewables	0.4	0.7	0.9	1.6	2.9	4.2	5.4	6.7	8.2	9.1	1.3
Electricity balance of trade*	3.5	3.8	4.1	4.1	4.2	4.4	4.5	4.7	5.2	1.4	0.8
Total final consumption, by source	467.6	478.9	491.7	491.5	486.3	484.5	486.1	483.8	484.8	459.8	100.0
Oil	218.0	227.6	232.4	232.6	223.7	225.1	225.2	219.6	221.3	200.8	45.7
Gas	61.4	60.7	60.9	59.8	59.9	57.7	56.7	57.7	55.7	52.0	11.5
Coal	17.9	16.3	16.8	17.1	16.7	15.0	16.4	16.9	16.0	14.8	3.3
Electricity	79.2	82.2	86.0	86.4	87.8	87.9	88.3	89.5	90.6	89.0	18.7
Heat	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	0.2
Biomass	90.7	91.6	95.0	95.0	97.4	97.9	98.6	99.2	100.2	102.0	20.7
Electricity generation, by source	98.3	102.3	106.3	105.9	109.4	109.5	110.1	111.7	113.2	111.2	100.0
Oil	10.6	11.2	11.6	12.1	12.3	10.7	8.9	8.2	7.8	7.6	6.9
Gas	14.2	17.3	20.0	21.4	22.6	21.1	21.9	21.2	22.1	21.3	19.5
Coal	3.6	4.4	5.8	5.8	6.2	6.3	5.7	5.8	6.1	5.8	5.4
Nuclear	1.9	1.9	1.9	1.8	1.9	2.1	1.9	1.9	2.1	2.1	1.8
Hydro	63.4	62.1	60.8	57.3	57.4	58.9	59.8	61.3	60.3	58.5	53.3
Biomass	3.9	4.3	4.8	5.4	5.7	5.9	6.1	6.2	6.2	6.4	5.5
Wind	0.4	0.7	0.9	1.6	2.7	3.8	4.8	5.6	6.6	7.1	5.8
Solar	0.0	0.0	0.0	0.1	0.2	0.4	0.6	1.1	1.6	2.0	1.4
Other renewables	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total final consumption, by sector	467.6	478.9	491.7	491.5	486.3	484.5	486.1	483.8	484.8	459.8	100.0
Industry	156.4	155.9	157.9	154.6	148.8	147.9	148.0	145.3	143.2	140.5	29.5
Transport	154.1	161.6	168.2	171.5	171.7	170.2	172.0	172.2	175.5	156.0	36.2
Residential/Comercial	102.3	105.5	109.6	109.6	111.2	112.2	111.5	113.6	113.4	112.9	23.4
Oil final consumption, by sector	218.0	227.6	232.4	232.6	223.7	225.1	225.2	219.6	221.3	200.8	100.0
Industry	30.1	30.6	31.0	30.0	26.8	27.2	25.9	25.1	25.4	23.7	11.5
Transport	133.8	141.5	145.4	147.0	144.0	144.1	145.7	142.9	143.9	127.1	65.0
Residential/Comercial	17.6	17.5	17.9	17.8	17.4	17.9	17.9	18.2	18.2	18.1	8.2
Natural gas final consumption, by sector	61.4	60.7	60.9	59.8	59.9	57.7	56.7	57.7	55.7	52.0	100.0
Industry	30.3	29.3	28.8	28.0	27.1	25.7	25.2	25.7	24.8	22.9	44.5
Transport	5.3	5.6	5.7	5.8	5.9	5.7	5.6	5.7	5.8	4.7	10.5
Residential/Comercial	13.7	14.3	14.9	14.7	14.8	14.9	14.3	14.5	14.0	13.8	25.1
Refined products consumption	217.2	227.0	232.1	232.1	223.0	222.8	224.0	218.5	220.2	199.7	100.0
Gasoline	59.3	64.1	64.7	65.9	64.7	65.7	67.3	63.6	63.6	54.9	28.9
Diesel	87.2	90.0	95.2	95.8	93.3	92.3	92.7	93.6	94.5	88.1	42.9
Heating Oil	13.2	13.0	12.9	10.7	8.6	8.2	7.7	7.0	7.0	6.7	3.2
Aviation Jet	5.2	5.8	5.8	5.8	5.9	5.3	5.3	5.6	5.5	2.7	2.5
LPG	20.1	21.0	21.8	21.9	21.1	21.9	21.4	21.5	21.7	21.5	9.8
Imports	165.1	174.2	187.1	186.5	180.4	173.8	174.6	171.1	171.3	143.0	100.0
Oil	144.7	149.7	157.2	155.0	150.6	150.0	151.2	149.0	150.7	122.6	88.0
Gas	20.4	24.5	29.8	31.5	29.8	23.8	23.4	22.1	20.6	20.4	12.0
Gasoline	12.2	14.2	13.8	14.2	15.8	18.0	20.7	19.0	21.0	15.7	12.3
Diesel	34.6	35.8	41.2	40.7	37.6	41.8	43.2	42.8	46.0	38.6	26.8
Heating Oil	14.9	13.9	12.9	12.6	12.4	12.8	12.7	12.8	12.9	5.3	7.5
Aviation Jet	4.0	4.3	4.3	4.4	4.9	4.5	4.9	5.0	5.0	2.1	2.9
LPG	6.6	6.3	7.2	7.6	6.9	7.6	8.1	8.7	9.0	9.2	5.3
Exports	299.8	300.3	293.1	299.7	299.3	285.5	275.6	259.2	235.7	208.0	100.0
Oil	266.2	264.8	254.7	262.7	265.0	253.6	244.3	227.6	205.3	197.0	87.1
Gas	33.5	35.5	38.4	37.0	34.3	31.9	31.3	31.6	30.4	11.0	12.9
Gasoline	7.3	6.6	7.4	6.3	8.1	7.7	5.8	5.7	4.8	1.5	2.0
Diesel	12.0	7.0	5.0	5.3	4.3	5.0	3.9	4.2	3.4	3.8	1.5
Heating Oil	30.3	30.3	28.8	28.0	26.6	25.1	23.8	24.1	19.6	23.9	8.3
Aviation Jet	6.0	5.2	4.7	5.1	4.7	3.3	2.8	2.1	1.2	0.7	0.5
LPG	3.2	2.4	2.7	2.4	2.4	2.3	2.5	2.6	2.5	1.7	1.1
CO₂ Emissions (Million tons CO₂)	1,120.0	1,170.6	1,218.6	1,241.4	1,223.3	1,188.9	1,167.2	1,139.7	1,131.1	1,029.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	166.9	165.4	168.4	169.7	171.4	169.7	168.2	163.7	159.0	158.3	-
Final energy intensity (toe/million \$15ppp)	70.0	69.1	68.9	68.5	67.9	67.5	68.5	68.2	67.5	67.9	-
Total energy intensity (toe/million \$15ppp)	93.8	90.5	91.0	92.6	92.0	92.2	92.4	91.6	88.9	89.4	-

*Heat is included

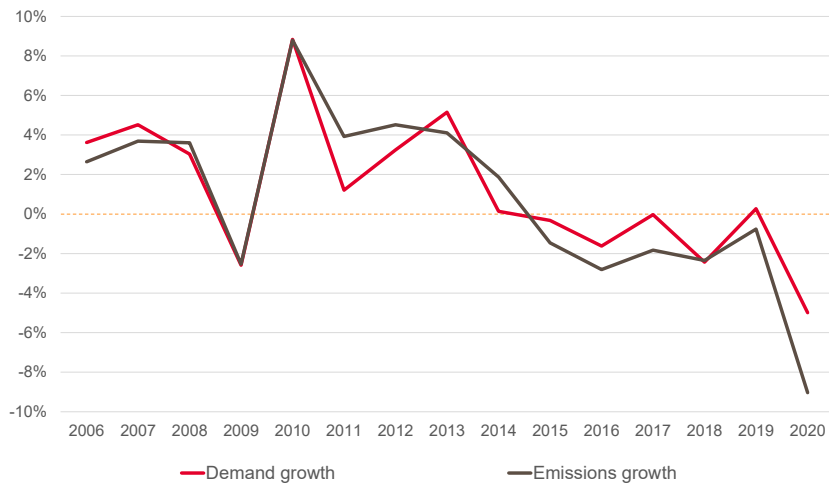
Primary energy demand mix



Electricity generation by source



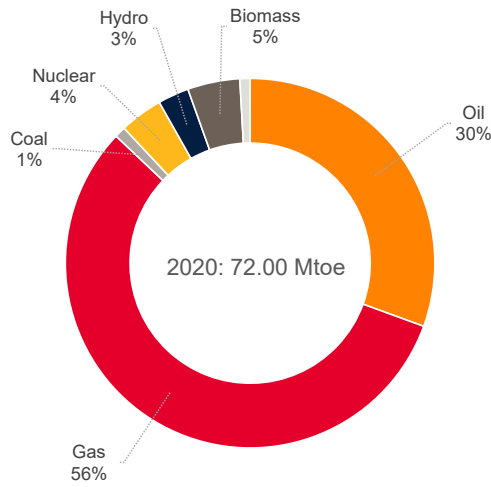
Primary energy demand and CO₂ emissions growth



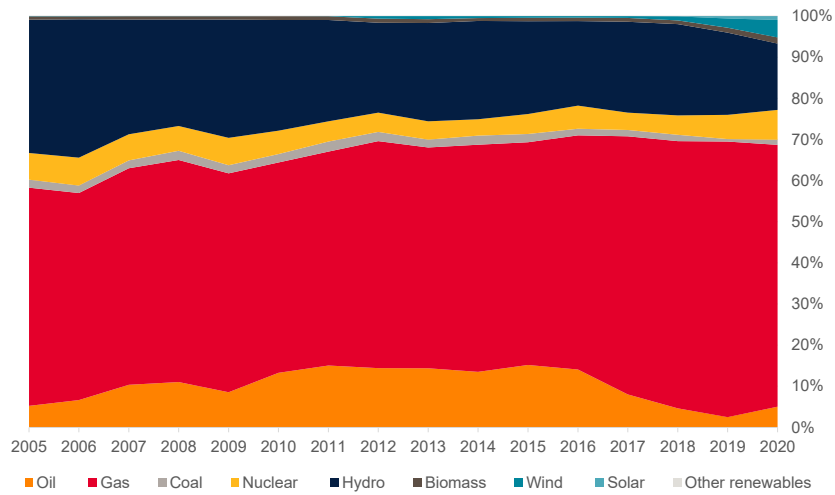
Argentina (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	77.4	79.5	81.5	81.7	82.9	82.5	82.5	80.1	79.0	72.0	100.0
Oil	28.8	28.8	30.0	29.8	29.7	28.9	27.7	26.0	25.4	21.8	30.3
Gas	38.8	41.6	41.9	42.0	42.9	43.4	44.3	43.5	43.3	40.4	56.1
Coal	1.7	1.4	1.4	1.6	1.6	1.2	1.3	1.4	0.8	0.7	1.0
Nuclear	1.7	1.7	1.6	1.4	1.8	2.2	1.6	1.8	2.1	2.7	3.8
Hydro	2.7	2.5	2.8	2.8	2.8	2.6	2.7	2.8	2.4	1.9	2.7
Biomass	2.8	2.9	3.0	3.1	3.3	3.4	3.8	3.7	3.7	3.3	4.5
Other renewables	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.6	0.9
Electricity balance of trade*	0.8	0.7	0.7	0.8	0.8	0.8	0.9	0.8	0.9	0.5	0.7
Total final consumption, by source	54.4	54.3	57.0	56.5	57.4	56.9	56.6	56.9	56.5	50.3	100.0
Oil	21.7	21.5	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.2	36.2
Gas	19.7	19.6	20.7	20.6	21.1	20.7	19.4	19.6	19.5	18.5	36.8
Coal	1.1	1.0	1.0	1.0	0.9	0.8	0.9	1.0	1.0	0.7	1.4
Electricity	10.0	10.2	10.4	10.9	11.4	11.3	11.1	11.1	10.8	10.7	21.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	2.0	2.1	2.2	2.5	2.5	2.6	2.9	3.0	3.0	2.2	4.4
Electricity generation, by source	11.1	11.7	12.0	11.9	12.5	12.7	12.5	12.6	12.0	12.3	100.0
Oil	1.7	1.7	1.7	1.6	1.9	1.8	1.0	0.6	0.3	0.6	5.0
Gas	5.8	6.5	6.4	6.6	6.8	7.2	7.9	8.2	8.0	7.8	63.7
Coal	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	1.3
Nuclear	0.5	0.5	0.5	0.5	0.6	0.7	0.5	0.6	0.7	0.9	7.3
Hydro	2.7	2.6	2.9	2.9	2.8	2.6	2.8	2.8	2.4	2.0	16.1
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.5
Wind	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.5	4.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.9
Other renewables	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	54.4	54.3	57.0	56.5	57.4	56.9	56.6	56.9	56.5	50.3	100.0
Industry	13.2	12.7	13.2	13.6	13.9	13.0	12.8	13.6	13.9	12.8	25.4
Transport	15.6	15.5	16.6	15.7	16.5	16.4	16.9	17.3	17.2	12.5	24.9
Residential/Comercial	17.8	18.5	19.4	19.2	19.6	20.0	18.9	18.7	18.0	18.1	36.0
Oil final consumption, by sector	21.7	21.5	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.2	100.0
Industry	0.6	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.7	0.7	3.7
Transport	12.5	12.2	13.2	12.1	12.7	12.6	13.2	13.8	13.6	10.1	55.5
Residential/Comercial	1.7	1.8	1.9	1.8	1.8	1.7	1.6	1.5	1.6	1.4	7.9
Natural gas final consumption, by sector	19.7	19.6	20.7	20.6	21.1	20.7	19.4	19.6	19.5	18.5	100.0
Industry	6.5	5.8	6.5	6.7	7.0	6.5	6.1	6.6	6.9	6.4	34.9
Transport	2.3	2.3	2.3	2.4	2.5	2.3	2.1	2.0	2.0	1.6	8.4
Residential/Comercial	10.1	10.6	11.0	10.7	10.8	11.0	10.3	10.2	9.7	9.7	52.6
Refined products consumption	21.7	21.5	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.2	100.0
Gasoline	5.1	5.4	5.6	5.2	5.6	5.7	6.1	6.4	6.2	4.5	24.9
Diesel	10.7	9.9	11.2	10.0	10.3	10.2	10.4	10.3	10.2	8.5	46.8
Heating Oil	0.4	0.4	0.4	0.4	0.4	0.2	0.1	0.1	0.4	0.3	1.9
Aviation Jet	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.2	1.0
LPG	1.8	2.1	2.2	2.0	1.9	1.9	1.8	1.7	1.7	1.5	8.4
Imports	11.4	12.1	15.3	15.3	14.0	14.1	14.5	12.7	8.6	8.3	100.0
Oil	5.8	4.5	5.9	4.9	4.5	5.0	4.9	4.6	2.9	2.2	26.0
Gas	5.7	7.5	9.5	10.4	9.6	9.1	9.5	8.2	5.7	6.1	74.0
Gasoline	0.1	0.0	0.3	0.3	0.0	0.2	0.3	0.5	0.4	0.3	3.3
Diesel	3.7	2.7	4.3	3.2	3.3	3.6	3.1	2.7	2.0	1.5	17.6
Heating Oil	1.4	1.2	0.6	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Aviation Jet	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	1.2
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	6.0	4.6	4.5	4.1	4.6	3.9	6.5	6.9	8.4	100.0
Oil	6.4	5.9	4.6	4.4	4.0	4.5	3.9	6.2	6.7	8.3	99.1
Gas	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.1	0.9
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	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.3
Heating Oil	0.0	0.0	0.2	0.2	0.0	0.0	0.4	0.6	0.6	0.7	8.1
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	1.4	1.0	0.9	1.0	0.9	1.0	1.0	1.2	1.3	0.8	9.0
CO₂ Emissions (Million tons CO₂)	170.8	172.8	177.7	174.1	180.2	179.1	174.8	171.4	192.2	166.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	200.7	205.3	206.1	207.1	208.7	211.8	201.4	202.5	231.9	224.9	-
Final energy intensity (toe/million \$15ppp)	59.4	59.8	61.9	62.2	62.5	63.0	60.6	62.8	63.5	62.9	-
Total energy intensity (toe/million \$15ppp)	90.9	94.5	94.6	97.2	96.1	97.5	95.0	94.6	95.3	97.1	-

*Heat is included

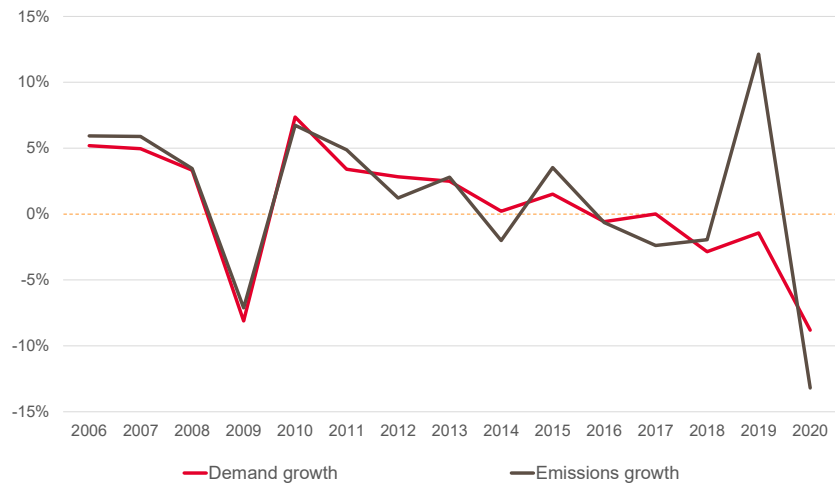
Primary energy demand mix



Electricity generation by source



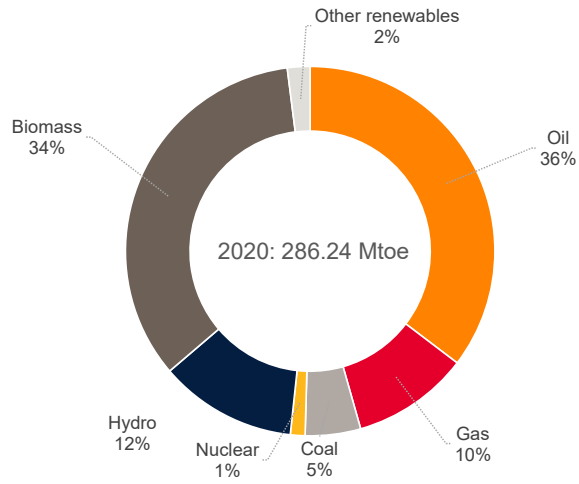
Primary energy demand and CO₂ emissions growth



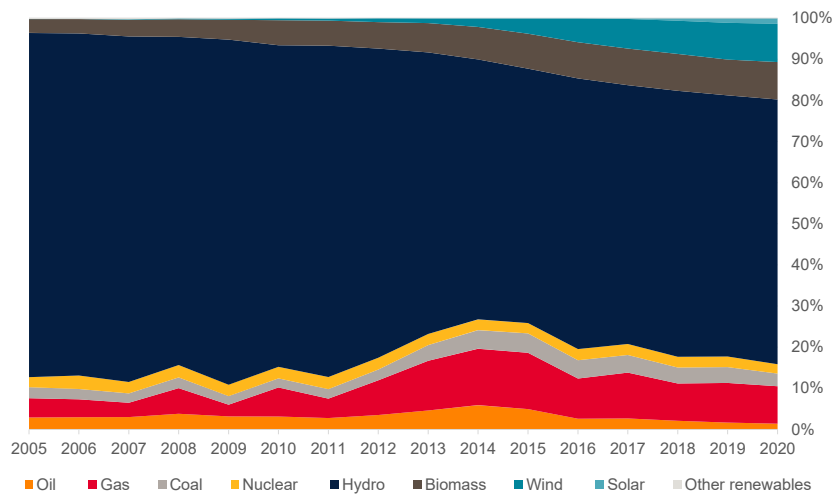
Brazil (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	270.9	281.5	294.1	303.3	297.4	286.7	291.9	288.1	292.7	286.2	100.0
Oil	108.9	115.2	120.5	124.5	115.6	109.7	111.1	104.2	105.5	99.9	34.9
Gas	23.5	28.0	33.0	36.4	36.2	30.7	32.5	30.7	31.0	29.0	10.1
Coal	15.4	15.3	16.5	17.5	17.7	15.9	16.8	16.4	15.5	13.7	4.8
Nuclear	4.1	4.2	4.0	4.0	3.8	4.1	4.1	4.1	4.2	3.7	1.3
Hydro	36.8	35.7	33.6	32.1	30.9	32.8	31.9	33.5	34.2	34.0	11.9
Biomass	78.2	78.6	81.8	84.2	87.5	86.2	87.7	90.8	93.8	96.8	33.8
Other renewables	0.2	0.4	0.6	1.1	1.9	2.9	3.7	4.5	5.4	5.6	2.0
Electricity balance of trade*	3.6	4.0	4.1	3.6	3.7	4.4	4.1	4.0	3.2	3.6	1.3
Total final consumption, by source	222.5	228.8	232.4	236.4	231.6	227.7	232.3	228.1	229.9	226.3	100.0
Oil	100.3	105.9	107.9	109.7	102.8	101.5	102.4	96.4	97.9	93.9	41.5
Gas	12.8	12.6	12.4	12.2	12.3	11.3	11.6	12.0	10.9	10.3	4.6
Coal	12.4	11.9	11.5	11.7	11.7	10.3	11.6	11.9	10.9	10.3	4.5
Electricity	39.3	40.6	41.8	43.0	42.2	42.3	42.9	43.6	44.1	43.3	19.1
Heat	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	0.4
Biomass	57.3	57.2	58.2	59.3	61.9	61.6	63.0	63.3	65.2	67.4	29.8
Electricity generation, by source	45.7	47.5	49.1	50.8	50.0	49.8	50.7	51.7	53.9	52.8	100.0
Oil	1.3	1.6	2.3	3.0	2.5	1.3	1.3	1.1	0.9	0.7	1.4
Gas	2.2	4.0	5.9	7.0	6.8	4.9	5.6	4.7	5.2	4.8	9.1
Coal	1.1	1.2	1.9	2.3	2.4	2.2	2.2	2.0	2.1	1.6	3.1
Nuclear	1.3	1.4	1.3	1.3	1.3	1.4	1.4	1.3	1.4	1.2	2.3
Hydro	36.8	35.7	33.6	32.1	30.9	32.8	31.9	33.5	34.2	34.0	64.4
Biomass	2.8	3.1	3.5	4.0	4.3	4.4	4.5	4.6	4.7	4.8	9.1
Wind	0.2	0.4	0.6	1.1	1.9	2.9	3.6	4.2	4.8	4.9	9.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.7	1.3
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	222.5	228.8	232.4	236.4	231.6	227.7	232.3	228.1	229.9	226.3	100.0
Industry	87.2	87.1	86.3	85.1	82.5	81.6	83.2	79.1	77.0	78.1	34.5
Transport	74.3	79.3	83.5	86.7	84.7	82.6	83.4	83.0	85.8	81.8	36.1
Residential/Commercial	34.6	35.7	36.2	38.1	38.3	38.0	38.8	40.1	40.8	40.7	18.0
Oil final consumption, by sector	100.3	105.9	107.9	109.7	102.8	101.5	102.4	96.4	97.9	93.9	100.0
Industry	12.7	12.5	12.7	12.7	11.5	11.0	10.8	9.4	9.9	9.4	10.0
Transport	59.6	65.3	67.4	69.3	64.3	63.9	64.4	60.9	61.4	58.6	62.4
Residential/Commercial	7.2	7.1	7.2	7.3	7.2	7.3	7.3	7.2	7.2	7.4	7.9
Natural gas final consumption, by sector	12.8	12.6	12.4	12.2	12.3	11.3	11.6	12.0	10.9	10.3	100.0
Industry	9.7	9.6	9.5	9.4	9.7	8.6	8.8	9.0	8.1	7.9	76.1
Transport	1.7	1.7	1.6	1.6	1.5	1.6	1.7	1.9	2.0	1.6	15.5
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.2
Refined products consumption	100.3	105.9	107.9	109.7	102.8	101.5	102.4	96.4	97.9	93.9	100.0
Gasoline	20.8	24.4	24.4	25.7	23.3	24.2	24.8	21.6	21.5	20.1	21.4
Diesel	40.5	42.7	45.1	45.7	43.6	42.2	42.4	41.9	42.7	42.8	45.6
Heating Oil	3.9	3.6	3.7	3.8	3.0	3.3	2.9	2.3	2.3	2.5	2.7
Aviation Jet	3.6	3.8	3.6	3.7	3.6	3.3	3.3	3.4	3.3	1.7	1.8
LPG	8.0	8.0	8.2	8.4	8.1	8.3	8.3	8.2	8.1	8.4	8.9
Imports	50.3	53.4	58.4	59.4	52.6	40.6	44.9	44.0	45.2	37.4	100.0
Oil	41.3	42.1	43.8	42.9	36.8	30.5	35.7	34.9	36.8	29.2	78.1
Gas	9.0	11.3	14.5	16.5	15.8	10.0	9.2	9.1	8.4	8.2	21.9
Gasoline	1.7	2.9	1.7	1.6	2.3	2.9	3.5	2.5	3.7	3.0	8.1
Diesel	7.9	8.2	8.5	9.6	5.9	7.2	11.0	9.9	11.0	10.2	27.2
Heating Oil	0.7	0.2	0.1	0.4	0.3	0.1	0.1	0.3	0.1	0.1	0.2
Aviation Jet	1.5	1.5	1.5	1.2	1.1	0.8	0.5	0.7	0.9	0.3	0.7
LPG	2.1	1.7	2.1	2.3	2.0	2.1	2.0	2.1	2.2	2.2	5.9
Exports	37.8	33.8	27.6	33.5	44.0	49.4	59.8	64.2	72.1	85.8	100.0
Oil	37.8	33.8	27.6	33.5	44.0	49.4	59.8	64.2	72.1	85.8	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	0.2	0.1	0.3	0.3	0.5	0.6	0.4	1.1	1.6	0.5	0.6
Diesel	0.5	0.3	0.3	0.3	0.1	0.4	0.4	0.8	0.0	0.3	0.3
Heating Oil	5.1	5.3	5.7	5.1	4.4	3.6	3.8	5.3	6.0	10.5	12.2
Aviation Jet	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
LPG	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	396.9	429.9	461.6	487.0	462.8	429.7	436.4	411.1	413.1	385.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	134.0	142.4	148.4	155.8	153.5	147.4	147.7	137.3	136.4	133.2	-
Final energy intensity (toe/million \$15ppp)	69.6	70.4	69.7	70.7	72.0	73.2	73.7	71.7	71.4	73.8	-
Total energy intensity (toe/million \$15ppp)	91.5	93.2	94.6	97.0	98.6	98.3	98.8	96.2	96.7	98.9	-

*Heat is included

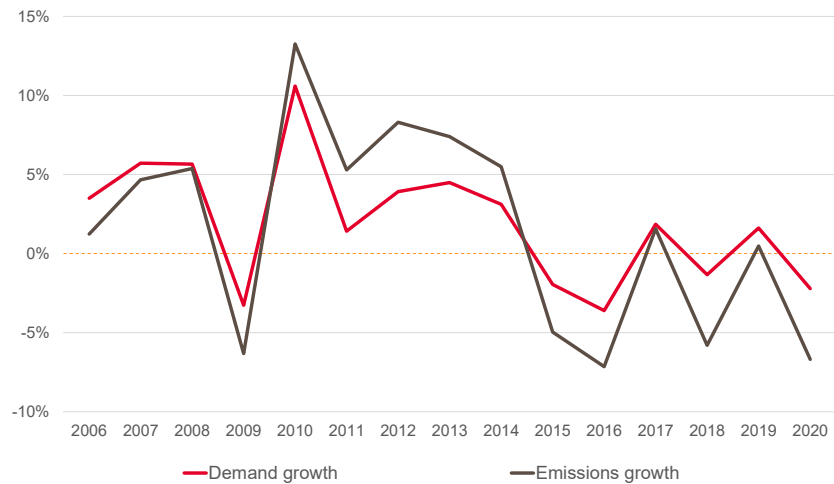
Primary energy demand mix



Electricity generation by source



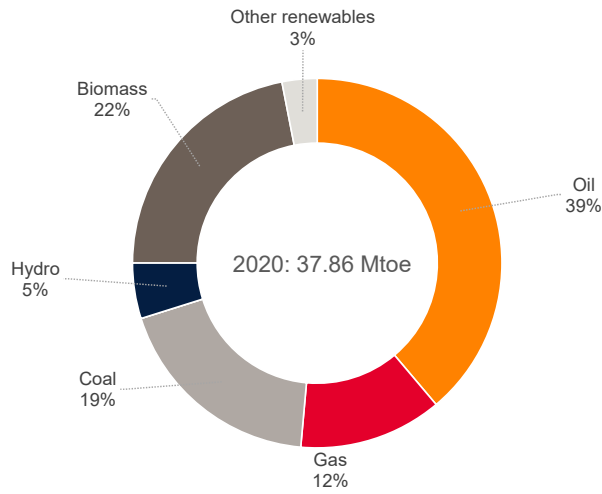
Primary energy demand and CO₂ emissions growth



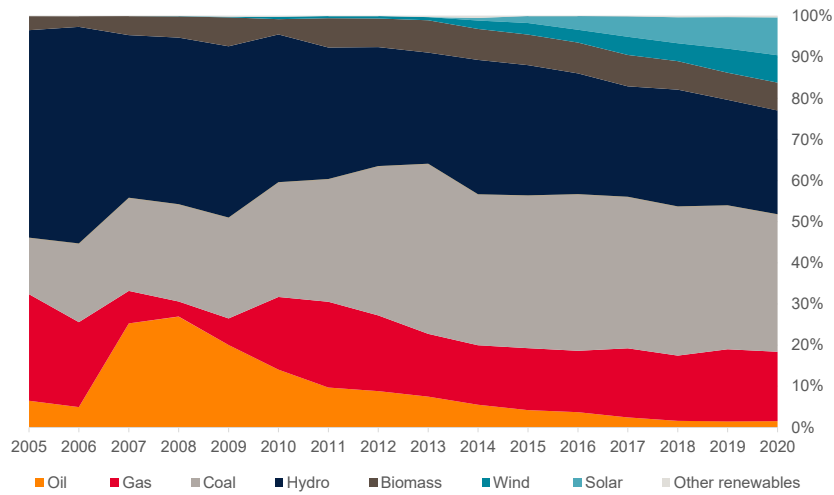
Chile (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	33.6	37.2	38.5	34.8	35.5	37.8	38.4	39.1	39.7	37.9	100.0
Oil	15.8	15.6	15.8	15.4	15.3	16.1	16.0	16.4	16.2	14.6	38.6
Gas	4.6	4.3	4.1	3.6	4.0	4.3	4.3	4.4	5.0	4.7	12.5
Coal	5.4	6.2	6.5	6.1	6.6	7.1	7.3	7.1	7.2	7.0	18.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.8	1.7	1.7	2.0	2.1	2.0	1.8	2.0	1.8	1.8	4.8
Biomass	5.9	9.4	10.3	7.4	7.3	7.8	8.1	8.2	8.2	8.2	21.8
Other renewables	0.0	0.0	0.0	0.2	0.3	0.4	0.6	0.8	1.0	1.2	3.0
Electricity balance of trade*	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.3	0.7
Total final consumption, by source	25.3	25.2	26.7	24.9	25.0	26.4	26.7	27.8	27.7	26.0	100.0
Oil	12.7	12.6	13.5	13.6	13.8	14.8	15.2	15.5	15.5	14.0	53.7
Gas	2.0	1.4	1.4	1.3	1.5	1.7	1.7	2.0	2.1	1.9	7.4
Coal	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	1.1
Electricity	5.0	5.4	5.6	5.8	5.8	6.0	6.0	6.3	6.4	6.4	24.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
Biomass	5.0	5.4	5.8	3.9	3.6	3.5	3.3	3.5	3.4	3.3	12.9
Electricity generation, by source	5.7	6.0	6.3	6.1	6.5	6.8	6.8	7.1	7.2	7.2	100.0
Oil	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.1	1.5
Gas	1.2	1.1	1.0	0.9	1.0	1.0	1.1	1.1	1.3	1.2	16.9
Coal	1.7	2.2	2.6	2.2	2.4	2.6	2.5	2.6	2.5	2.4	33.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.8	1.7	1.7	2.0	2.1	2.0	1.8	2.0	1.8	1.8	25.2
Biomass	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.8
Wind	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.5	6.7
Solar	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	9.2
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	25.3	25.2	26.7	24.9	25.0	26.4	26.7	27.8	27.7	26.0	100.0
Industry	9.8	9.3	10.0	10.5	10.5	10.7	10.2	10.7	10.5	10.2	39.1
Transport	7.3	7.5	8.2	8.1	8.5	8.9	9.2	9.5	9.6	8.4	32.4
Residential/Comercial	7.2	7.4	7.6	5.5	5.5	6.0	6.1	6.1	6.1	6.0	23.2
Oil final consumption, by sector	12.7	12.6	13.5	13.6	13.8	14.8	15.2	15.5	15.5	14.0	100.0
Industry	3.2	2.9	3.3	3.7	3.9	3.8	3.6	3.6	3.5	3.3	23.4
Transport	7.2	7.4	8.2	8.0	8.4	8.8	9.1	9.4	9.4	8.3	59.4
Residential/Comercial	1.7	1.5	1.4	1.2	1.2	1.6	1.8	1.8	1.8	1.7	12.5
Natural gas final consumption, by sector	2.0	1.4	1.4	1.3	1.5	1.7	1.7	2.0	2.1	1.9	100.0
Industry	1.0	0.6	0.7	0.6	0.8	0.8	0.8	0.9	0.9	0.8	43.1
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Residential/Comercial	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	31.5
Refined products consumption	12.7	12.6	13.5	13.6	13.8	14.8	15.2	15.5	15.5	14.0	100.0
Gasoline	2.7	2.8	3.1	3.3	3.3	3.5	3.5	3.5	3.6	3.1	22.0
Diesel	6.7	6.5	7.1	6.8	7.5	8.0	8.2	8.5	8.5	7.9	56.8
Heating Oil	1.1	1.0	1.0	0.9	0.7	0.7	0.7	0.7	0.6	0.5	3.3
Aviation Jet	0.3	0.3	0.3	0.4	0.6	0.5	0.5	0.6	0.6	0.4	2.7
LPG	1.3	1.4	1.4	1.5	1.2	1.4	1.5	1.5	1.5	1.5	10.9
Imports	19.9	19.9	20.6	19.3	19.4	20.7	20.6	21.0	21.9	20.2	100.0
Oil	16.6	16.6	17.3	16.4	16.3	17.1	17.1	17.5	17.6	15.9	78.9
Gas	3.3	3.3	3.3	2.9	3.1	3.7	3.5	3.5	4.3	4.3	21.1
Gasoline	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.3	0.3	1.5
Diesel	4.6	5.0	5.1	5.1	5.4	5.8	5.4	5.7	5.7	5.9	29.1
Heating Oil	0.6	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Aviation Jet	0.2	0.5	0.5	0.4	0.5	0.6	0.7	0.6	0.5	0.3	1.4
LPG	0.9	0.9	1.2	1.1	0.9	1.2	1.2	1.2	1.1	1.3	6.2
Exports	0.6	0.9	0.9	0.6	0.5	0.7	0.7	0.9	0.7	1.1	100.0
Oil	0.6	0.9	0.9	0.6	0.5	0.4	0.5	0.7	0.7	1.1	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.0	0.0
Gasoline	0.1	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.9
Diesel	0.3	0.4	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	3.1
Heating Oil	0.1	0.1	0.2	0.1	0.3	0.3	0.3	0.4	0.2	0.4	40.1
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	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.3	23.0
CO₂ Emissions (Million tons CO₂)	76.3	78.7	82.6	76.7	81.5	86.1	86.9	86.8	85.3	79.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	213.5	209.2	211.0	192.5	199.9	207.8	207.1	198.8	193.3	191.2	-
Final energy intensity (toe/million \$15ppp)	68.8	65.0	66.6	60.8	60.8	62.3	62.2	61.8	61.2	60.9	-
Total energy intensity (toe/million \$15ppp)	94.1	98.8	98.3	87.2	87.1	91.2	91.5	89.5	89.9	90.9	-

*Heat is included

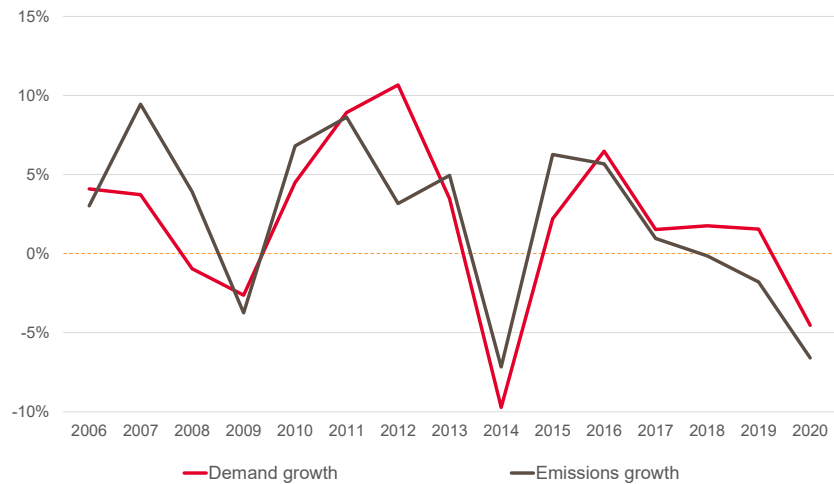
Primary energy demand mix



Electricity generation by source



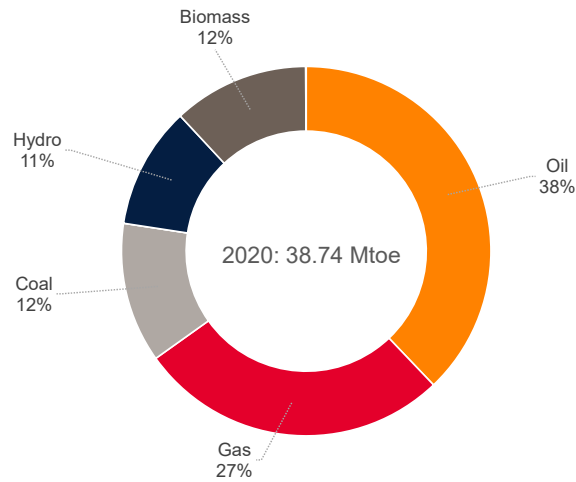
Primary energy demand and CO₂ emissions growth



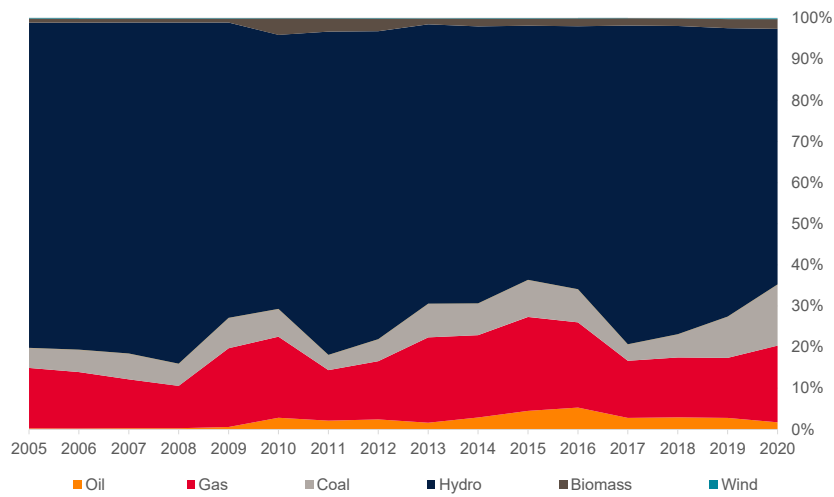
Colombia (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	31.3	30.3	39.6	40.1	40.6	42.1	40.3	38.9	41.2	38.7	100.0
Oil	12.1	11.2	14.8	14.8	15.3	17.3	16.0	15.0	17.5	14.5	37.5
Gas	7.6	7.9	9.8	10.3	10.1	9.6	9.8	10.2	9.8	10.4	26.9
Coal	3.5	2.9	4.7	4.8	5.1	5.1	3.9	3.5	4.1	4.7	12.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.2	4.1	4.3	4.1	4.2	4.2	5.3	5.2	5.0	4.1	10.5
Biomass	4.0	4.2	6.1	6.2	6.0	5.8	5.4	5.0	4.7	4.6	11.8
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.2	0.4	1.1
Total final consumption, by source	25.1	24.8	28.6	29.3	28.9	30.6	29.5	29.0	29.5	26.9	100.0
Oil	11.1	11.6	11.9	12.2	12.1	13.5	12.7	12.6	13.1	10.9	40.4
Gas	3.7	3.8	3.5	3.5	3.8	4.0	4.0	4.1	4.0	4.1	15.2
Coal	2.6	1.7	2.7	2.7	2.3	2.4	2.5	2.5	2.5	2.3	8.6
Electricity	4.2	4.2	4.8	5.0	5.1	5.2	5.3	5.3	5.8	5.6	20.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.5	3.5	5.8	5.9	5.6	5.5	5.0	4.6	4.1	4.0	14.9
Electricity generation, by source	5.3	5.5	6.4	6.1	6.8	6.6	6.8	6.9	7.1	6.6	100.0
Oil	0.1	0.1	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.1	1.7
Gas	0.7	0.8	1.3	1.2	1.5	1.4	0.9	1.0	1.0	1.2	18.6
Coal	0.2	0.3	0.5	0.5	0.6	0.5	0.3	0.4	0.7	1.0	14.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.2	4.1	4.3	4.1	4.2	4.2	5.3	5.2	5.0	4.1	62.1
Biomass	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	2.4
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	0.2
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	25.1	24.8	28.6	29.3	28.9	30.6	29.5	29.0	29.5	26.9	100.0
Industry	7.0	6.0	7.5	7.5	7.1	7.4	7.8	7.4	7.7	7.2	26.8
Transport	8.8	9.3	8.9	9.3	10.0	10.4	10.4	10.7	11.0	9.3	34.5
Residential/Comercial	6.5	6.6	8.3	8.5	8.2	8.2	8.0	8.1	7.9	7.9	29.4
Oil final consumption, by sector	11.1	11.6	11.9	12.2	12.1	13.5	12.7	12.6	13.1	10.9	100.0
Industry	0.3	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.5	4.9
Transport	7.8	8.3	7.7	8.0	8.7	9.2	9.3	9.5	10.0	8.2	75.3
Residential/Comercial	0.8	0.7	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	4.9
Natural gas final consumption, by sector	3.7	3.8	3.5	3.5	3.8	4.0	4.0	4.1	4.0	4.1	100.0
Industry	2.0	2.0	1.4	1.2	1.1	1.4	1.4	1.4	1.3	1.4	35.3
Transport	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.4	10.1
Residential/Comercial	1.2	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.5	36.9
Refined products consumption	11.1	11.6	11.8	12.2	12.1	13.5	12.7	12.6	13.1	10.9	100.0
Gasoline	3.3	3.4	3.6	3.8	4.3	4.9	4.9	5.0	5.3	4.6	42.5
Diesel	5.7	6.1	6.4	6.5	6.1	6.1	5.4	5.9	6.0	4.6	42.6
Heating Oil	0.0	0.1	0.1	0.0	0.0	0.1	0.2	0.2	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	0.0
LPG	0.7	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7	6.6
Imports	4.3	5.0	7.8	9.1	6.6	9.0	6.6	4.6	5.6	4.5	100.0
Oil	4.3	5.0	7.8	9.1	6.6	9.0	6.6	4.6	5.3	4.3	94.9
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	5.1
Gasoline	0.3	0.5	1.2	1.5	1.5	2.3	2.2	1.1	1.1	0.9	19.9
Diesel	2.4	2.6	4.2	4.5	2.7	3.5	1.5	0.6	1.3	1.0	23.1
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	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	1.4
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	2.1
Exports	40.1	42.6	46.1	45.7	43.9	37.5	37.8	36.6	35.4	35.8	100.0
Oil	38.5	41.2	44.5	44.9	43.6	37.5	37.8	36.6	35.4	35.8	100.0
Gas	1.6	1.4	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.6	0.4	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1
Diesel	0.8	0.7	0.7	0.0	0.0	0.7	0.9	1.6	2.2	2.1	5.8
Heating Oil	3.8	3.8	3.7	3.4	2.4	2.7	2.4	1.9	1.8	1.6	4.6
Aviation Jet	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	64.7	64.5	72.3	73.9	75.1	79.0	71.3	74.8	77.8	75.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	114.7	110.2	118.1	115.1	113.8	117.2	104.4	106.7	107.5	110.7	-
Final energy intensity (toe/million \$15ppp)	42.5	40.4	44.9	43.9	42.4	42.6	41.1	40.1	39.3	38.4	-
Total energy intensity (toe/million \$15ppp)	55.5	51.7	64.6	62.5	61.4	62.4	59.0	55.5	56.9	57.0	-

*Heat is included

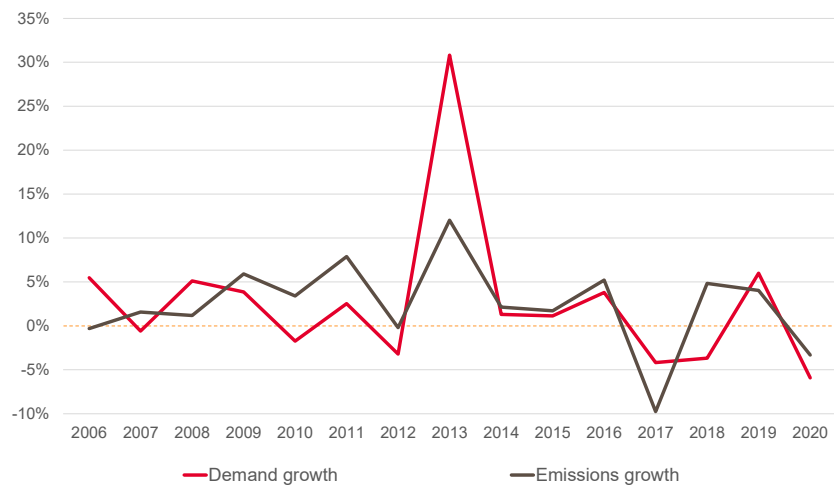
Primary energy demand mix



Electricity generation by source



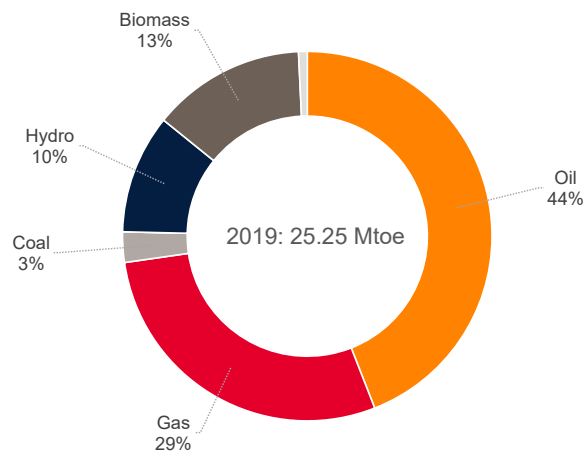
Primary energy demand and CO₂ emissions growth



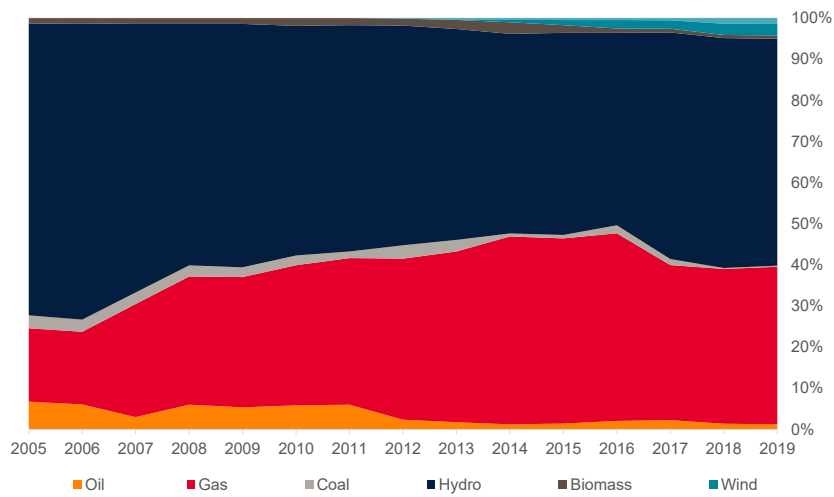
Peru (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	20.2	21.7	20.8	22.0	22.7	23.6	23.2	25.4	25.2	n.d.	n.d.
Oil	7.6	8.5	7.9	7.5	8.3	8.7	9.4	11.2	10.9	n.d.	n.d.
Gas	6.5	6.8	6.4	8.0	7.9	8.3	7.0	7.3	7.4	n.d.	n.d.
Coal	0.7	0.8	0.9	0.8	0.8	0.9	0.7	0.7	0.7	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	1.9	1.8	1.9	1.9	2.0	2.1	2.5	2.6	2.7	n.d.	n.d.
Biomass	3.6	3.7	3.7	3.7	3.5	3.5	3.3	3.4	3.4	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	n.d.	n.d.
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Total final consumption, by source	16.1	16.9	17.8	17.6	18.6	19.1	19.2	20.1	20.0	n.d.	n.d.
Oil	8.0	8.5	8.8	8.6	9.2	9.5	9.7	10.1	9.8	n.d.	n.d.
Gas	1.4	1.4	2.0	1.9	1.9	1.9	2.1	2.3	2.4	n.d.	n.d.
Coal	0.6	0.6	0.6	0.7	0.7	0.6	0.5	0.6	0.6	n.d.	n.d.
Electricity	2.9	3.1	3.3	3.4	3.6	3.9	4.0	4.2	4.3	n.d.	n.d.
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	3.1	3.3	3.2	3.1	3.1	3.2	2.8	2.9	2.9	n.d.	n.d.
Electricity generation, by source	3.4	3.4	3.7	3.9	4.1	4.4	4.5	4.7	4.9	n.d.	n.d.
Oil	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	n.d.	n.d.
Gas	1.2	1.3	1.6	1.8	1.9	2.0	1.7	1.8	1.9	n.d.	n.d.
Coal	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	1.9	1.8	1.9	1.9	2.0	2.1	2.5	2.6	2.7	n.d.	n.d.
Biomass	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	n.d.	n.d.
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	n.d.	n.d.
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	n.d.	n.d.
Other renewables	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	n.d.	n.d.
Total final consumption, by sector	16.1	16.9	17.8	17.6	18.6	19.1	19.2	20.1	20.0	n.d.	n.d.
Industry	4.6	4.5	5.1	5.1	5.3	5.2	5.4	5.7	5.8	n.d.	n.d.
Transport	6.1	6.4	6.9	6.9	7.5	8.2	8.3	8.6	8.5	n.d.	n.d.
Residential/Commercial	4.7	4.8	5.0	5.0	5.0	5.0	5.0	5.3	5.2	0.0	0.0
Oil final consumption, by sector	8.0	8.5	8.8	8.6	9.2	9.5	9.7	10.1	9.8	n.d.	n.d.
Industry	1.2	1.2	1.3	1.2	1.2	0.9	0.9	1.0	0.9	n.d.	n.d.
Transport	5.5	5.5	6.0	5.9	6.5	7.2	7.3	7.5	7.4	n.d.	n.d.
Residential/Commercial	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	n.d.	n.d.
Natural gas final consumption, by sector	1.4	1.4	2.0	1.9	1.9	1.9	2.1	2.3	2.4	n.d.	n.d.
Industry	0.8	0.8	1.2	1.0	1.1	1.1	1.3	1.2	1.3	n.d.	n.d.
Transport	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	n.d.	n.d.
Residential/Commercial	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.4	n.d.	n.d.
Refined products consumption	8.0	8.5	8.8	8.6	9.2	9.5	9.7	10.1	9.8	n.d.	n.d.
Gasoline	1.3	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	n.d.	n.d.
Diesel	4.5	4.5	4.7	4.6	5.1	5.2	5.1	5.2	5.0	n.d.	n.d.
Heating Oil	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	n.d.
Aviation Jet	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.2	n.d.	n.d.
LPG	1.4	1.5	1.7	1.7	1.8	1.9	2.0	2.1	2.2	n.d.	n.d.
Imports	7.1	7.3	7.4	6.9	7.6	9.3	11.8	11.2	10.5	n.d.	n.d.
Oil	7.1	7.3	7.4	6.9	7.6	9.3	11.8	11.2	10.5	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	0.4	0.2	0.4	0.1	0.2	0.0	0.9	1.0	0.8	n.d.	n.d.
Diesel	1.6	1.7	2.4	2.4	2.7	3.6	3.6	3.5	3.4	n.d.	n.d.
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Aviation Jet	0.1	0.1	0.1	0.2	0.4	0.3	0.5	0.4	0.4	n.d.	n.d.
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	n.d.	n.d.
Exports	9.7	10.4	10.8	9.1	8.2	9.9	11.7	10.1	9.6	n.d.	n.d.
Oil	4.3	5.2	4.8	4.0	3.4	4.1	6.2	5.1	4.2	n.d.	n.d.
Gas	5.3	5.2	6.0	5.1	4.8	5.8	5.5	5.0	5.4	n.d.	n.d.
Gasoline	1.6	1.9	2.0	1.6	1.6	1.7	2.4	2.2	1.9	n.d.	n.d.
Diesel	0.1	0.0	0.1	0.0	0.0	0.4	0.5	0.4	0.3	n.d.	n.d.
Heating Oil	1.1	1.6	1.2	0.8	0.7	1.2	2.5	2.1	1.7	n.d.	n.d.
Aviation Jet	0.5	0.6	0.6	0.8	0.6	0.7	0.7	0.0	0.0	n.d.	n.d.
LPG	0.2	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0	n.d.	n.d.
CO₂ Emissions (Million tons CO₂)	45.0	44.6	45.4	48.2	49.7	52.1	49.8	50.1	49.7	n.d.	n.d.
CO₂ Intensity (tCO₂/million \$15ppp)	151.7	141.6	136.1	141.1	140.9	142.3	132.6	128.3	124.4	n.d.	n.d.
Final energy intensity (toe/million \$15ppp)	53.2	51.3	52.3	50.7	51.8	51.6	50.3	50.6	49.5	n.d.	n.d.
Total energy intensity (toe/million \$15ppp)	68.0	68.7	62.5	64.3	64.3	64.4	61.6	64.9	63.2	n.d.	n.d.

*Heat is included

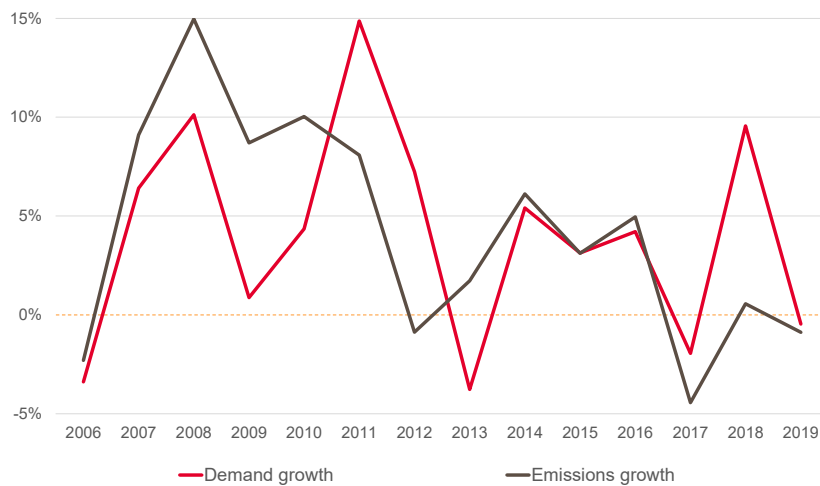
Primary energy demand mix



Electricity generation by source



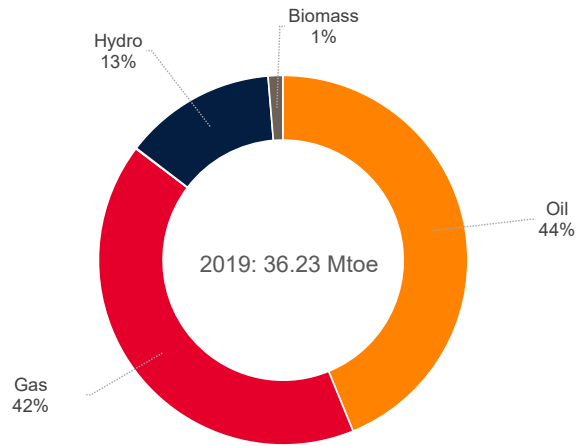
Primary energy demand and CO₂ emissions growth



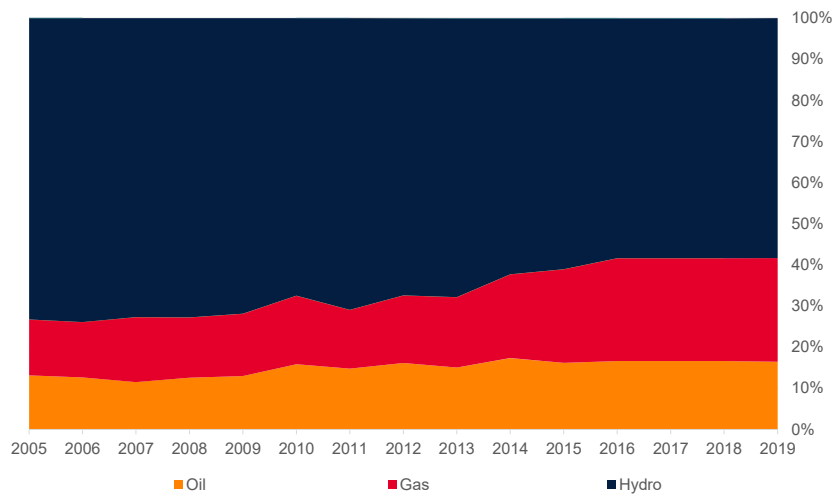
Venezuela (Million toe)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Peso en 2020 (%)
Total primary energy demand, by source	67.3	68.8	76.1	66.0	64.3	58.8	55.8	41.9	36.2	n.d.	n.d.
Oil	38.1	38.9	46.6	39.2	36.8	31.4	29.1	18.2	15.9	n.d.	n.d.
Gas	20.9	21.7	21.2	20.4	20.3	21.3	20.9	18.2	15.1	n.d.	n.d.
Coal	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	7.2	7.1	7.2	5.5	6.4	5.4	5.2	5.0	4.8	n.d.	n.d.
Biomass	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.5	n.d.	n.d.
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Electricity balance of trade*	0.0	0.0	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	n.d.	n.d.
Total final consumption, by source	42.9	46.2	45.5	41.6	36.1	32.1	30.2	27.8	25.7	n.d.	n.d.
Oil	25.6	28.4	27.9	26.7	21.6	19.3	17.5	15.9	14.4	n.d.	n.d.
Gas	8.9	9.1	8.2	7.6	6.5	5.9	6.1	5.7	5.3	n.d.	n.d.
Coal	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	n.d.	n.d.
Electricity	7.3	7.6	8.4	6.2	7.1	6.2	5.9	5.6	5.5	n.d.	n.d.
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Biomass	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.5	n.d.	n.d.
Electricity generation, by source	10.1	10.5	10.6	8.9	10.6	9.3	8.9	8.6	8.3	n.d.	n.d.
Oil	1.5	1.7	1.6	1.5	1.7	1.5	1.5	1.4	1.4	n.d.	n.d.
Gas	1.5	1.7	1.8	1.8	2.4	2.3	2.2	2.1	2.1	n.d.	n.d.
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Hydro	7.2	7.1	7.2	5.5	6.4	5.4	5.2	5.0	4.8	n.d.	n.d.
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Other renewables	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	n.d.	n.d.
Total final consumption, by sector	42.9	46.2	45.5	41.6	36.1	32.1	30.2	27.8	25.7	n.d.	n.d.
Industry	16.5	17.3	16.8	13.7	10.0	8.9	9.1	8.7	8.2	n.d.	n.d.
Transport	17.3	18.9	18.6	18.2	15.9	13.9	12.7	11.2	10.3	n.d.	n.d.
Residential/Comercial	6.7	7.0	7.0	7.0	7.4	6.6	6.3	6.1	5.8	0.0	0.0
Oil final consumption, by sector	25.6	28.4	27.9	26.7	21.6	19.3	17.5	15.9	14.4	n.d.	n.d.
Industry	4.5	5.1	4.7	4.2	1.8	1.6	1.8	1.9	1.8	n.d.	n.d.
Transport	17.3	18.9	18.5	18.2	15.8	13.8	12.7	11.2	10.3	n.d.	n.d.
Residential/Comercial	1.5	1.6	1.7	1.7	1.2	1.1	1.1	1.1	1.0	n.d.	n.d.
Natural gas final consumption, by sector	8.9	9.1	8.2	7.6	6.5	5.9	6.1	5.7	5.3	n.d.	n.d.
Industry	8.0	8.1	7.2	6.6	5.3	4.8	5.1	4.7	4.4	n.d.	n.d.
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Residential/Comercial	0.9	1.0	1.0	1.0	1.2	1.0	1.0	0.9	0.9	n.d.	n.d.
Refined products consumption	25.6	28.4	27.9	26.7	21.6	19.3	17.5	15.9	14.4	n.d.	n.d.
Gasoline	14.1	14.5	14.4	13.6	12.5	10.9	10.5	9.1	8.4	n.d.	n.d.
Diesel	3.8	5.0	4.6	5.7	3.6	3.3	2.8	2.9	2.7	n.d.	n.d.
Heating Oil	3.9	3.8	3.6	2.6	1.0	0.9	0.9	0.9	0.8	n.d.	n.d.
Aviation Jet	0.0	0.6	0.5	0.4	0.4	0.2	0.2	0.2	0.2	n.d.	n.d.
LPG	2.9	3.3	3.4	3.4	2.9	3.0	2.3	2.1	1.9	n.d.	n.d.
Imports	4.7	9.5	9.4	7.5	8.7	7.6	8.4	10.2	10.6	n.d.	n.d.
Oil	3.1	8.1	7.8	6.8	8.4	7.6	8.4	10.2	10.6	n.d.	n.d.
Gas	1.6	1.4	1.6	0.7	0.3	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	0.1	0.5	0.5	0.4	0.7	1.1	1.5	1.6	1.3	n.d.	n.d.
Diesel	0.0	1.4	1.9	0.0	1.1	1.4	1.1	2.6	2.5	n.d.	n.d.
Heating Oil	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Exports	138.6	138.4	130.3	132.3	127.3	116.9	100.7	83.0	55.6	n.d.	n.d.
Oil	138.6	138.4	130.3	132.3	127.3	116.9	100.7	83.0	55.6	n.d.	n.d.
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
Gasoline	1.3	0.4	0.4	0.5	1.6	0.7	0.0	0.0	0.0	n.d.	n.d.
Diesel	7.1	2.5	0.5	1.3	0.8	0.0	0.0	0.0	0.0	n.d.	n.d.
Heating Oil	11.7	11.3	9.5	11.1	11.7	9.6	7.8	8.0	5.3	n.d.	n.d.
Aviation Jet	3.6	3.0	2.3	2.5	2.3	1.4	1.0	0.9	0.8	n.d.	n.d.
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	n.d.	n.d.
CO₂ Emissions (Million tons CO₂)	150.9	162.4	159.3	156.9	142.0	130.2	124.1	113.2	101.2	n.d.	n.d.
CO₂ Intensity (tCO₂/million \$15ppp)	282.4	287.8	278.5	285.5	275.6	304.6	344.2	390.8	537.2	n.d.	n.d.
Final energy intensity (toe/million \$15ppp)	76.0	76.6	74.3	70.8	64.5	68.9	78.3	89.9	129.4	n.d.	n.d.
Total energy intensity (toe/million \$15ppp)	125.9	121.9	133.1	120.2	124.8	137.6	154.8	144.7	192.3	n.d.	n.d.

*Heat is included

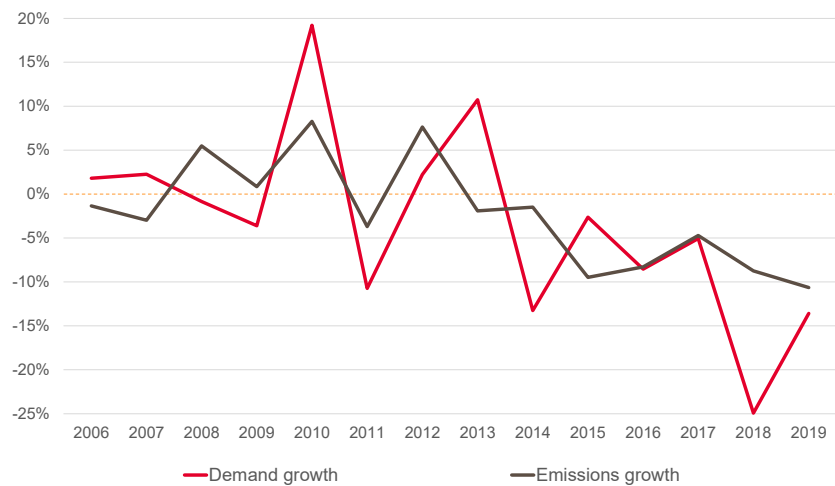
Primary energy demand mix



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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