



Annual
Energy-Statistics
2022

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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 2021 (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 2012 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

After a dramatic year 2020 for the energy markets caused by the COVID-19 pandemic, which led to an unprecedented health and economic crisis on a global scale, advances in vaccination programs, the progressive lifting of restrictions associated with the pandemic and the consequent reactivation of mobility and economic activity led to a recovery in energy demand in 2021.

Total primary energy consumption increased by 5%, reaching 14,555 million tons of oil equivalent (toe). Oil contributed about 30% of the primary energy consumed globally, followed by coal with 27% and natural gas with 24%.

Renewable energies continued their expansion in 2021, since they were the only energy sources that expanded their demand in 2020. Excluding hydro and biomass, the group other renewables registered an increase of 17%. Despite this, other renewables represented only 2% of the total primary energy consumed globally in 2021.

By regions, in 2021 OECD economies increased their primary energy demand by 4% compared to the previous year, partially recovering a spectacular 7% drop in demand in 2020, especially for coal and oil. For its part, non-OECD demand expanded by 5.3%, with the group of other renewables being the primary energy source that registered the greatest expansion, 29%. Over the course of the last 10 years, other renewables have increased its primary energy demand globally by nine times in non-OECD economies, versus by three times in OECD countries.

By sectors, the progressive lifting of mobility restrictions and the economic recovery led the transport sector to grow by 7.5%, partially offsetting the 12.3% drop of 2020. For its part, the residential/commercial and the industrial sectors experienced more modest increases in consumption, 4.2% and 3.6% year-on-year, respectively.

Energy intensity, or the energy needed to produce a unit of gross domestic product, continued its positive trend –i.e. intensity reduction– at a global scale in 2021, largely because the expansion of primary demand was lower than the expansion of the economy. During the last 10 years, global energy intensity has decreased by 15%. A similar trend followed the economies of both the OECD and non-OECD regions.

CO₂ emissions recent development

After the economic slowdown linked to the 2020 lockdowns, CO₂ emissions increased sharply (more than 5%) until reaching a new all-time high in 2021, almost 1% above the 2019 level.

The behavior between the different countries and regions has been very different. In North America and Europe emissions remain below pre-pandemic levels while in Africa and Asia emissions are 4% above 2019. The US is the country that has observed the greatest reduction in emissions mainly due to lower oil consumption. China, on the other hand, has seen strong growth in emissions through its increased use of coal. China emissions now exceed more than one third of global CO₂ emissions.

The picture is very different when analyzing other indicators, such as per capita emissions, where the Persian Gulf countries 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 increase in emissions during 2021 has been in line with the world average, so per capita emissions continue to be slightly above the global average (4.9 tons per inhabitant compared to 4.7 tons per inhabitant for the global average).

Regarding the intensity of emissions (emissions over GDP), European countries continue to be the most efficient with their emissions, well below most of the large emitters. Emissions for each dollar of GDP in the EU are 40% below the world average. Spain recorded a level more than 10% below the European average. However, this indicator has highlighted very particular situations in the EU during 2021, where the increase in gas prices in the second half of the year has caused both lower economic growth and increased use of coal (especially in Germany and Poland). This caused the intensity of emissions to increase for the first time since 2010.

Oil market recent development

In 2021, the price of Brent crude oil averaged 71 dollars per barrel (\$/bbl), an increase of 68% compared to the average price of 2020. After the sharp drop in prices registered in 2020 caused mainly by the COVID-19 pandemic, oil prices increased after the rollout of vaccination programs. The subsequent recovery in economic activity and the reactivation of mobility at a global level, strongly boosted the demand for oil products, which translated into a sustained increase of oil prices.

Even though prices began the year below \$50/bbl, the start of vaccination campaigns, especially in countries such as the United States and some European countries, laid the foundations for a solid economic recovery. As a result of the protection against contagion, the vaccines managed to counteract the negative impact on oil demand caused by lockdowns and different mobility restriction measures whose main objective was the prevention of contagion. At the beginning of March 2021, Brent prices were quoted above \$65/bbl, an increase of 30% in just three months. As the months went by, this trend only strengthened, placing oil prices around \$75/bbl. However, an increase in infections globally, saw prices falling back below \$65/bbl by the end of August.

However, prices underwent a solid and sustained increase to around \$80/bbl by mid-November. The main elements that underpinned this upward trend were (i) additional demand for oil for electricity generation derived from a very strong increase in natural gas prices; (ii) the OPEC+ group, led by Saudi Arabia and Russia as *de facto* leaders, which agreed to begin reversing the historic 9.7 mb/d cuts implemented in March 2020. The cartel's policy of gradually ramping up production considered market fundamentals very carefully, which were torn between a strong economic recovery and the effect of the COVID-19-related lockdowns.

Between mid-November and the end of the year, prices fell sharply to around \$65/bbl due to the emergence of the new omicron variant, which was responsible for an explosion of infections worldwide.

In 2022, at the time of writing, the event that is shaking energy markets in general, and oil markets in particular, is Russia's invasion of Ukraine. Prices reached \$139/bbl at the beginning of March due to fears of an abrupt drop in the supply of Russian oil to international markets. So far, Russia has managed to divert part of its exports of crude oil and products from Europe to Asia, China and India. Although it is still too early to ensure that this change in oil trade ceases to be circumstantial and becomes structural. In June 2022, the European Council agreed to gradually ban the purchase, import or transfer of crude oil and certain Russian oil products. In this way, the restrictions will be applied gradually: within six months for crude oil, and eight months for other refined petroleum products. Since most of the Russian oil supplied to the EU is of marine origin, by the end of the year these restrictions will cover almost 90% of Russian oil imports to Europe.

Natural gas market recent development

In 2021, the evolution of the global natural gas market was marked by two important milestones. The first was the recovery of gas demand compared to 2020, which came hand in hand with the recession of the pandemic and the recovery of economic activity. This recovery was progressive and noticeable throughout the year. The second was a very strong adjustment of the global natural gas balance concentrated in the last quarter of 2021 and whose effects are expected to continue for at least, the next two years. The reason: the escalation of geopolitical tension with Russia and the subsequent start of the war on February 24th, 2022, morally abominable and absolutely disruptive for the dynamics of the global gas market.

Returning to what happened in 2021, on the demand side, the global consumption of natural gas increased by more than 190 Bcm, surpassing even the figures reached in 2019 and standing at about 4,170 Bcm. The recovery in demand was globally experienced, although the 6% year-on-year increase in Asia-Pacific and Europe, accounted in net figures for almost 45% of growth vs 2020. The rest of the growth came hand in hand with demand from the countries of the ex-Soviet bloc, with Russia leading the way. The main reason in this case was not only the recovery of economic activity, but also the need to face a cold winter that triggered domestic consumption of natural gas, a reason that Russia used afterwards to prioritize the refilling of gas in storage instead of exporting it. This worsened relations with Ukraine and the rest of Europe.

On the supply side, there was also a relevant increase with a growth in world production of 4% vs 2020, standing above 4,100 Bcm. The main contributions came from Russia, China, Algeria, and the USA. The reasons were diverse: on the one hand, to cover domestic demand itself, especially in China, and on the other hand, to maximize exports in a bullish price environment that reached very high levels during the last quarter of 2021, as a result of the rebound in seasonal demand (winter) and the growing pre-war tensions with Russia.

The tension in the gas market resulted in rising prices that, on average, increased fivefold in Europe (TTF and NBP), where demand experienced a strong uptick and production continued to decline (4% less than in 2020). In Asia (JKM), price peaks were also seen, since to cover domestic demand, it was necessary to compete with Europe to attract gas. Only in North America (HH) the price remained limited and under the influence of domestic dynamics.

Currently, the situation is complex. While different variants of Covid-19 continue to paralyze key countries in terms of gas demand such as China, everything has taken a back seat after the outbreak of war between Russia and Ukraine this year.

Europe's need to minimize dependence on Russian gas in a few months is redefining the dynamics of global gas. This is reflected in a extremely high volatility of prices that beat themselves recurrently, reaching new historical highs, and in the application of policies that, at least in Europe, are aimed at replacing Russian supply and limiting the demand for gas. All with clear repercussions in the Asian region, very dependent on gas imports like Europe still is.

At the moment of writing, it is impossible to predict how prices will behave in the short term, but it can be anticipated that they will remain high and the global gas balance tight, at least in the coming year. How much? That will depend on Europe's ability to become "independent" from Russian gas and how cold next winter will be.

Power generation recent development

After the impact on economic activity derived from the health crisis caused by COVID-19, the progress in vaccination programs at the beginning of 2021 laid the foundations for a solid recovery of the economy and, therefore, of the demand for energy. In the case of electricity generation worldwide, this expansion of economic activity led to an increase in electricity production of 5.5% compared to the average level in 2020. The annual growth in 2021 is the highest since 2010 and doubles the average annual growth of the 2009-2019 decade (2.7%).

The installation of renewable generation increased proportionally to that of electricity generation. In this way, the share of renewable energies in the generation mix at a global level remained at 28.1%, without changes compared to the 2020 share.

By source of electricity generation, coal, oil, wind and solar were the energy sources that increased their share in global electricity generation, to the detriment of a lower share of natural gas and hydroelectric power.

By region, the share of renewable energies in electricity generation in the OECD reached 30.3% in 2021, compared to 26.6% in non-OECD countries. Despite the fact that in the OECD region the share of renewable generation in the electricity generation mix averaged 22.3% in the 2009-2019 decade, while the non-OECD economies, as a whole, averaged 22.9%, developed countries have increased their renewable share significantly in recent years. If in 2019 the renewable share in the OECD region stood at 27.3%, in 2020, despite the pandemic, it increased to 30.1%, an increase of three percentage points (p.p.), compared to one p.p in non-OECD economies. In 2021, only advanced economies increased their renewable share (+0.3 p.p.), compared to -0.1 p.p. in non-OECD economies.

In the European Union (27) the expansion of electricity demand (+3.7%) was lower than the global electricity demand (5.5%) and that of China (+9.7%), but it was above of the demand growth in the United States (2.7%). Within the EU, electricity demand in Spain grew at a level like that of the EU (+3.4%), above the demand in Germany (+1.9%), although lower than that of France (+4.3%).

Spanish energy market recent development

The recovery of commercial and industrial activity saw Spain oil consumption increase by 9% in 2021, after the sharp fall [18%] observed the previous year. It exceeded growth observed in the rest of Europe [5%] and in the world [6%].

Within petroleum products, it was jet aviation that registered the largest upward correction in demand [38%] due to the recovery in the activity of the aviation sector. That was followed by gasoline [23%], both largely offsetting the falls registered in the consumption of heating oil and LPG [20% and 16%, respectively]. However, over the whole year, diesel was the product that increased its share the most, exceeding 60% of the Spanish product mix.

In the case of natural gas consumption, a significant recovery was also registered, reaching a year-on-year growth of 6%, in line with the European figures and slightly above the average registered in the world. By sector, despite the consumption of gas for power production fell, an increase in the consumption of the industrial sector offset this fall. The other sectors did not show significant changes to consumption.

The electricity market in Spain in 2021 was characterized by an incipient rise in prices that would materialize afterwards, due to: a greater demand and the sharp rise in gas prices registered during the last quarter of the year.

In the share of generation by technology, a strong increase was observed in the contribution of solar [29%] and wind [10%]. Despite this, gas was again the one that registered a greater contribution in net terms to the power mix [above 25%], followed by wind and nuclear, both above 20%.

In this way, the Spanish mix closed 2021 with renewable energy contributing more than 60% in the power mix, significantly improving the data of the previous year.

At the beginning of 2021, electricity saw all historical price records being broken. This was a result one in 100-year storm Filomena but also because of the increase in natural gas prices and CO₂ emission prices. As for 2022, the price of the electricity pool during the first quarter soared with prices exceeding €200/MWh. It then relaxed to €143/MWh in July, still very high levels by historic levels.

For the coming months, an environment of high prices is expected to continue given the uncertainty in Europe as a result of the war initiated by Russia.

Statistical annex



Oil

Oil Proved Reserves (Thousand million barrels)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	227.9	231.6	236.9	229.2	228.1	240.1	246.1	243.9	242.9	234.6
Canada	173.7	173.0	172.2	171.5	170.5	171.8	170.7	169.1	168.1	168.1
Mexico	10.0	10.1	9.8	9.7	7.6	7.0	6.5	6.1	6.1	6.0
United States	44.2	48.5	55.0	48.0	50.0	61.2	68.9	68.8	68.8	60.5
South and Central America	322.3	323.6	325.5	322.8	322.7	322.7	324.4	324.0	323.4	322.0
Argentina	2.4	2.3	2.4	2.4	2.2	2.0	2.4	2.5	2.5	2.4
Brazil	15.3	15.5	16.2	13.0	12.6	12.8	13.4	12.7	11.9	11.9
Chile	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Colombia	2.2	2.4	2.4	2.3	2.0	1.7	1.8	2.0	2.0	1.8
Peru	1.4	1.6	1.4	1.2	1.2	1.0	0.9	0.8	0.7	0.8
Trinidad & Tobago	0.7	0.7	0.7	0.7	0.2	0.2	0.2	0.2	0.2	0.2
Venezuela	297.7	298.4	300.0	300.9	302.3	302.8	303.8	303.8	303.8	303.6
Other	2.4	2.5	2.3	2.2	2.1	2.1	1.7	1.9	2.0	1.1
Europe	14.2	13.7	12.9	13.9	13.1	13.6	14.5	14.2	13.6	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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Italy	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5
Netherlands	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
Norway	7.5	7.0	6.5	8.0	7.6	7.9	8.6	8.5	7.9	7.7
Poland	0.2	0.2	0.1	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	0.4	0.4	0.4
United Kingdom	3.0	3.0	3.0	2.8	2.6	2.5	2.5	2.7	2.5	2.0
EU	2.9	2.8	2.7	2.6	2.4	2.4	2.4	2.4	2.4	2.4
Other	1.4	1.3	1.1	0.9	0.7	1.2	1.4	0.9	1.2	1.8
Former Soviet Union	143.9	143.5	141.6	140.8	144.7	145.0	145.7	146.2	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	105.5	105.0	103.2	102.4	106.3	106.6	107.2	107.8	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	799.3	802.9	803.1	802.9	807.7	807.7	833.9	836.0	835.9	835.9
Iran	157.3	157.8	157.5	158.4	157.2	155.6	155.6	157.8	157.8	157.8
Iraq	141.4	140.3	144.2	143.1	142.5	148.8	147.2	145.0	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	25.2	25.1	25.7	25.2	25.2	25.2	25.2	25.2	25.2	25.2
Saudi Arabia	265.9	265.8	266.6	266.5	266.2	266.2	297.7	297.6	297.5	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	10.2	14.6	9.7	10.5	17.3	12.6	8.8	11.1	11.1	137.8
Africa	127.4	127.5	126.8	127.6	127.9	126.6	125.7	125.0	125.1	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	9.0	8.4	9.5	9.5	9.5	8.2	7.8	7.8	7.2
Egypt	4.2	3.9	3.7	3.5	3.4	3.6	3.2	3.1	3.1	3.3
Libya	48.5	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
Nigeria	37.1	37.1	37.4	37.1	37.5	37.5	37.0	36.9	36.9	36.9
Other	16.3	17.0	16.6	17.0	16.9	15.4	16.8	16.6	16.7	17.1
Asia-Pacific	48.5	49.1	47.7	46.6	45.9	45.8	45.9	45.3	45.2	45.2
Australia	3.9	4.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
China	23.7	24.4	24.6	25.1	25.6	25.6	25.9	26.2	26.0	26.5
India	5.7	5.7	5.7	4.8	4.7	4.5	4.5	4.7	4.5	4.5
Indonesia	3.7	3.7	3.6	3.6	3.3	3.2	3.2	2.5	2.4	2.4
Malaysia	3.7	3.8	3.6	3.0	2.8	2.7	2.7	2.7	2.7	2.7
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Thailand	0.4	0.5	0.4	0.4	0.3	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	2.8	2.6	2.8	2.8	2.3	2.5	2.5	2.2	2.3	1.8
OECD	247.2	250.5	253.6	246.8	244.6	256.7	263.7	261.5	260.0	260.0
Non-OECD	1,436.3	1,441.3	1,440.8	1,437.1	1,445.6	1,444.8	1,472.4	1,473.3	1,472.4	1,462.8
OPEC	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	1,226.2
Non-OPEC	508.6	511.4	513.8	501.3	501.2	486.5	521.7	518.8	516.4	496.5
World	1,683.6	1,691.9	1,694.4	1,683.9	1,690.3	1,701.5	1,736.1	1,734.8	1,732.4	1,722.7

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

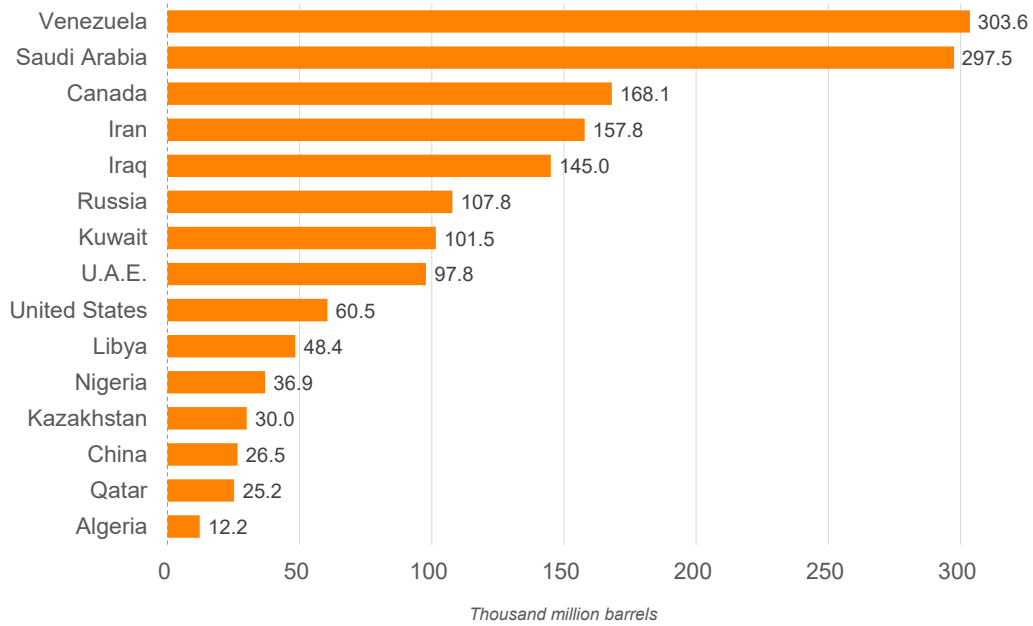
Oil Production (Thousand barrels per day)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	15,958	17,356	19,252	20,151	19,584	20,513	22,970	24,744	23,831	24,284
Canada	3,891	4,145	4,425	4,536	4,615	4,990	5,408	5,610	5,349	5,603
Mexico	2,920	2,890	2,799	2,597	2,463	2,229	2,073	1,928	1,926	1,954
United States	9,147	10,321	12,028	13,018	12,506	13,294	15,489	17,206	16,556	16,727
South and Central America	7,466	7,489	7,710	7,845	7,529	7,269	6,639	6,325	5,911	5,947
Argentina	674	649	659	650	625	595	621	647	609	643
Brazil	2,167	2,133	2,367	2,547	2,628	2,755	2,713	2,897	3,044	3,004
Chile	11	11	9	6	5	6	9	12	9	9
Colombia	953	1,016	997	1,014	906	862	873	893	788	744
Peru	153	166	173	150	134	133	133	140	125	121
Trinidad & Tobago	120	117	114	109	97	99	87	82	76	75
Venezuela	2,733	2,722	2,672	2,665	2,429	2,133	1,534	982	578	641
Other	655	675	719	704	705	686	669	672	682	710
Europe	3,669	3,463	3,471	3,627	3,650	3,605	3,586	3,476	3,677	3,495
Czech Republic	8	5	7	7	5	7	6	5	6	6
France	37	31	28	31	31	30	21	34	35	40
Germany	84	76	62	67	68	67	67	62	76	60
Italy	138	134	128	131	96	97	110	89	111	108
Netherlands	30	31	38	36	24	24	23	18	20	19
Norway	1,917	1,838	1,889	1,948	1,995	1,969	1,850	1,740	2,007	2,037
Poland	23	30	29	28	22	24	32	30	30	27
Portugal	0	1	1	0	1	1	0	1	0	0
Romania	85	84	82	82	78	74	73	73	71	68
Spain	32	10	6	5	3	2	2	1	1	0
Turkey	45	47	48	48	49	49	55	58	62	66
United Kingdom	955	887	873	972	1,026	1,009	1,116	1,150	1,077	888
EU	3,583	3,372	3,377	3,536	3,564	3,521	3,498	3,384	3,581	3,397
Other	315	289	280	272	252	252	231	215	181	176
Former Soviet Union	13,599	13,833	13,896	14,036	14,205	14,314	14,573	14,643	13,498	13,767
Azerbaijan	879	885	862	849	829	784	793	765	699	704
Kazakhstan	1,683	1,733	1,728	1,694	1,669	1,848	1,937	1,942	1,836	1,846
Russia	10,623	10,793	10,892	11,084	11,328	11,321	11,494	11,582	10,607	10,867
Ukraine	76	69	61	54	50	49	51	55	54	54
Uzbekistan	63	60	56	52	48	46	43	40	38	36
Other	275	293	297	303	281	266	255	259	264	260
Middle East	28,115	27,953	28,371	29,671	31,416	30,959	31,495	30,023	27,586	27,907
Iran	3,551	3,289	3,429	3,573	4,402	4,722	4,552	3,290	2,918	3,396
Iraq	3,021	3,146	3,415	4,078	4,503	4,563	4,663	4,812	4,148	4,132
Kuwait	2,985	3,109	3,090	3,097	3,194	3,014	3,050	2,987	2,717	2,719
Qatar	2,006	2,002	1,936	1,856	1,859	1,787	1,800	1,724	1,771	1,822
Saudi Arabia	11,742	11,513	11,605	12,045	12,344	11,876	12,345	11,914	11,094	10,974
United Arab Emirates	3,355	3,478	3,552	3,762	3,848	3,740	3,801	4,009	3,697	3,601
Other	1,455	1,416	1,344	1,260	1,266	1,257	1,284	1,287	1,241	1,263
Africa	9,660	8,820	8,390	8,324	7,796	8,205	8,299	8,458	7,020	7,393
Algeria	1,619	1,573	1,585	1,590	1,604	1,530	1,512	1,490	1,346	1,362
Angola	1,834	1,772	1,696	1,796	1,743	1,701	1,543	1,449	1,328	1,178
Egypt	694	696	709	696	664	639	649	633	597	571
Libya	1,476	953	497	437	426	877	1,029	1,159	384	1,225
Nigeria	2,482	2,293	2,330	2,246	1,928	1,986	2,030	2,123	1,879	1,681
South Africa	131	120	103	106	103	106	102	104	92	98
Other	1,424	1,413	1,470	1,453	1,328	1,366	1,434	1,500	1,394	1,278
Asia-Pacific	8,321	8,138	8,174	8,316	7,997	7,779	7,648	7,700	7,510	7,428
Australia	465	393	412	371	345	315	344	458	455	444
China	4,102	4,144	4,181	4,271	3,982	3,892	3,848	3,921	3,970	4,060
India	904	883	881	872	852	861	845	803	750	728
Indonesia	902	861	835	817	866	824	798	772	734	683
Japan	16	14	13	12	11	12	10	11	10	10
Malaysia	657	624	653	701	737	729	723	670	604	566
New Zealand	47	41	46	48	41	37	30	30	26	23
South Korea	21	19	20	22	24	25	29	28	34	37
Thailand	443	438	436	452	462	457	446	443	411	380
Other	764	721	697	750	677	627	575	564	516	497
OPEC	35,664	34,628	34,659	36,030	37,097	36,821	36,788	34,961	30,781	31,546
Non-OPEC	55,217	56,716	59,106	60,511	59,747	60,616	63,473	65,602	62,996	63,682
Global biofuels	1,922	2,099	2,270	2,287	2,378	2,450	2,674	2,839	2,630	2,752
Processing gains	2,171	2,192	2,230	2,282	2,288	2,342	2,377	2,356	2,113	2,254
World	90,881	91,344	93,765	96,541	96,844	97,437	100,261	100,563	93,777	95,228

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

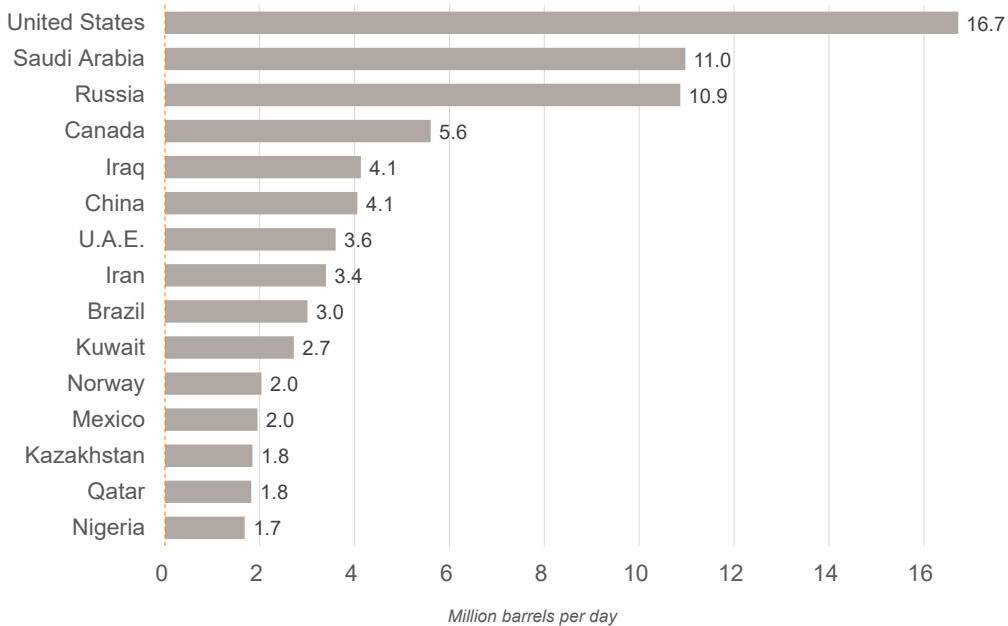
Oil Final Consumption (Thousand barrels/day)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	23,220	23,622	23,689	24,133	24,345	24,524	25,047	25,171	22,232	23,920
Canada	2,438	2,418	2,389	2,440	2,465	2,463	2,520	2,629	2,303	2,353
Mexico	2,102	2,090	2,040	2,006	2,053	2,019	1,932	1,959	1,581	1,641
United States	18,680	19,114	19,260	19,687	19,827	20,042	20,595	20,583	18,348	19,926
South and Central America	6,745	6,943	7,064	6,983	6,781	6,733	6,619	6,652	5,859	6,304
Argentina	679	693	688	682	677	666	648	625	524	598
Brazil	2,978	3,129	3,259	3,193	3,006	3,045	2,979	3,082	2,866	3,006
Chile	332	339	336	331	352	357	363	362	324	355
Colombia	321	319	326	338	372	346	349	373	324	357
Peru	219	225	224	236	247	262	266	274	211	265
Trinidad & Tobago	40	44	44	46	47	44	37	31	26	26
Venezuela	830	828	809	710	629	573	489	386	211	242
Other	1,346	1,366	1,378	1,447	1,451	1,440	1,488	1,519	1,373	1,455
Europe	14,565	14,355	14,262	14,581	14,784	15,173	15,063	15,094	13,166	13,850
Belgium	596	615	607	623	632	638	683	642	565	636
Czech Republic	195	188	202	196	180	214	217	219	193	212
Finland	200	211	207	207	210	209	211	207	187	180
France	1,790	1,766	1,746	1,747	1,710	1,737	1,686	1,689	1,421	1,542
Germany	2,389	2,435	2,374	2,368	2,383	2,450	2,326	2,346	2,149	2,136
Italy	1,370	1,260	1,266	1,274	1,237	1,244	1,272	1,255	1,050	1,176
Netherlands	963	940	932	919	935	943	929	915	858	803
Norway	220	223	219	227	216	219	227	229	226	248
Poland	533	505	504	541	582	658	680	698	663	702
Portugal	230	234	233	237	237	242	231	249	203	212
Romania	192	187	190	194	204	217	214	228	219	232
Spain	1,301	1,208	1,200	1,247	1,290	1,297	1,332	1,328	1,088	1,190
Sweden	309	307	305	302	317	322	291	296	266	304
Turkey	689	747	763	881	942	991	958	987	923	982
United Kingdom	1,534	1,512	1,518	1,560	1,599	1,619	1,605	1,578	1,215	1,274
EU	11,619	11,366	11,281	11,424	11,519	11,827	11,762	11,788	10,349	10,870
Other	2,054	2,017	1,996	2,058	2,110	2,173	2,201	2,228	1,940	2,021
Former Soviet Union	4,239	4,333	4,618	4,591	4,487	4,652	4,683	4,723	4,497	4,786
Azerbaijan	90	97	96	96	96	102	103	110	97	103
Kazakhstan	257	348	258	322	349	334	326	290	266	296
Russia	3,082	3,151	3,529	3,472	3,308	3,496	3,494	3,568	3,421	3,647
Ukraine	286	274	238	220	244	236	243	244	232	237
Uzbekistan	81	75	81	81	85	85	93	93	90	95
Other	443	388	416	400	405	399	424	418	391	408
Middle East	8,341	8,554	8,904	8,898	8,825	8,918	8,880	8,843	8,191	8,559
Iran	1,857	2,046	2,028	2,003	1,839	1,898	1,979	1,937	1,881	1,955
Iraq	632	700	653	606	655	689	713	754	619	707
Kuwait	461	446	451	448	439	438	438	415	385	419
Qatar	281	291	287	287	305	337	357	358	296	305
Saudi Arabia	3,532	3,483	3,795	3,895	3,870	3,804	3,608	3,635	3,448	3,474
United Arab Emirates	739	790	874	921	1,004	1,014	988	984	890	959
Other	839	798	816	738	713	738	797	760	672	740
Africa	3,728	3,938	4,088	4,115	4,067	4,101	4,116	4,120	3,669	3,897
Algeria	389	417	435	447	430	425	437	446	406	420
Angola	120	142	156	154	135	119	117	127	116	116
Egypt	802	788	840	858	829	772	715	652	563	608
Libya	238	252	258	219	200	205	210	209	176	223
Nigeria	338	415	455	415	427	431	456	488	431	480
South Africa	604	630	614	637	607	663	648	608	533	567
Other	1,237	1,294	1,330	1,385	1,439	1,486	1,533	1,590	1,444	1,483
Asia-Pacific	29,767	30,488	31,027	32,449	33,245	34,476	35,643	36,055	34,116	36,135
Australia	1,127	1,139	1,128	1,123	1,117	1,168	1,185	1,178	1,022	1,044
China	9,803	10,373	10,798	11,639	12,013	12,574	13,577	14,062	14,204	15,427
India	3,663	3,725	3,905	4,288	4,493	4,762	4,927	4,963	4,513	4,697
Indonesia	1,747	1,735	1,761	1,683	1,594	1,703	1,858	1,833	1,660	1,729
Japan	4,678	4,523	4,286	4,167	4,035	3,945	3,850	3,739	3,326	3,416
Malaysia	613	714	731	688	709	731	712	752	642	692
New Zealand	152	155	157	161	168	177	180	185	152	147
South Korea	2,322	2,328	2,348	2,473	2,605	2,630	2,567	2,599	2,437	2,587
Taiwan	958	993	1,022	1,046	1,051	1,037	1,041	987	945	990
Thailand	1,233	1,326	1,338	1,363	1,393	1,419	1,457	1,462	1,385	1,407
Other	3,471	3,477	3,553	3,818	4,067	4,330	4,289	4,295	3,830	3,999
OECD	46,006	46,023	45,746	46,496	46,902	47,449	47,731	47,778	42,128	44,768
Non-OECD	44,598	46,210	47,905	49,256	49,632	51,128	52,321	52,878	49,600	52,682
World	90,604	92,233	93,651	95,752	96,534	98,577	100,052	100,656	91,728	97,450

Note: Liquids final consumption including bunker fuel.

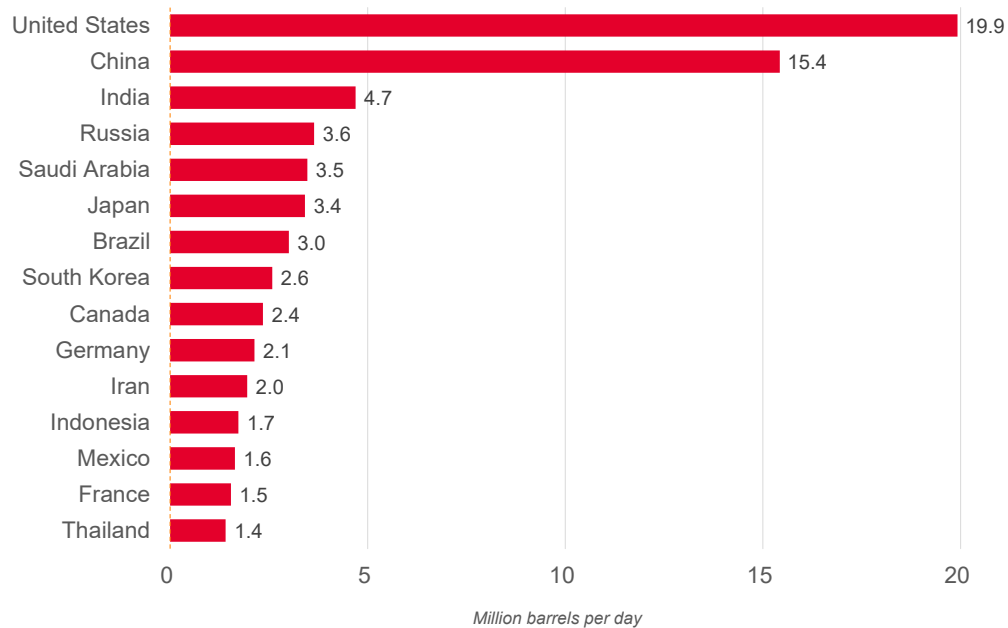
Top 15 Countries - Oil Proved Reserves, 2021



Top 15 Countries - Oil Production, 2021



Top 15 Countries - Oil Final Consumption, 2021





Natural Gas

Natural Gas Proved Reserves (Tcm)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	11.1	11.9	12.7	11.1	11.4	14.6	15.7	15.8	15.8	15.8
Canada	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.5	2.5	2.5
Mexico	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
United States	8.7	9.6	10.4	8.7	9.1	12.4	13.4	13.2	13.2	13.2
South and Central America	7.7	7.6	7.6	7.6	7.7	7.5	7.4	7.4	7.4	7.4
Argentina	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4
Brazil	0.5	0.5	0.5	0.4	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	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Peru	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3
Trinidad & Tobago	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Venezuela	5.6	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Other	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Europa	4.7	4.6	4.3	4.1	3.8	3.7	3.1	3.0	2.8	2.8
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Netherlands	1.1	1.0	0.9	0.8	0.7	0.7	0.2	0.1	0.1	0.1
Norway	2.7	2.7	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.1
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	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2
EU	1.5	1.4	1.3	1.3	1.2	1.2	0.7	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	66.9	67.5	68.1	68.8	56.6	69.4	68.8	68.8	67.5	67.5
Azerbaijan	0.5	0.7	0.7	0.7	0.7	1.1	1.4	1.9	1.9	1.9
Kazakhstan	1.4	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Russia	48.8	49.3	49.9	50.2	50.7	50.6	49.6	49.1	47.8	47.8
Turkmenistan	14.0	14.0	14.0	14.0	1.4	14.0	14.0	14.0	14.0	14.0
Ukraine	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1
Uzbekistan	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Other	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Middle East	79.8	79.9	79.9	79.3	80.3	80.0	80.4	80.8	80.7	80.7
Iran	33.8	34.0	34.0	33.5	33.7	33.8	33.9	34.0	34.0	34.0
Iraq	3.2	3.2	3.2	3.2	3.8	3.7	3.7	3.7	3.7	3.7
Kuwait	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Qatar	25.1	24.7	24.5	24.3	24.1	23.9	23.8	23.8	23.8	23.8
Saudi Arabia	8.2	8.3	8.5	8.6	8.6	8.7	9.1	9.4	9.4	9.4
United Arab Emirates	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Other	1.7	1.9	1.9	1.8	2.2	2.0	1.9	2.0	1.8	1.8
Africa	14.5	14.4	14.4	14.6	15.1	15.3	15.4	15.9	15.9	15.9
Algeria	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Angola	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3
Egypt	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2
Libya	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Nigeria	5.1	5.1	5.1	5.3	5.5	5.6	5.7	5.8	5.8	5.8
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.8	0.8	0.7	0.9	0.9	1.1	1.1	1.6	1.6	1.6
Asia-Pacific	15.9	15.7	15.3	15.5	15.0	14.6	13.2	12.6	12.3	12.3
Australia	3.7	3.8	3.2	3.2	3.2	3.2	3.2	2.8	2.7	2.7
China	2.3	2.4	2.6	2.8	2.8	2.8	2.8	2.8	2.9	2.9
India	1.4	1.4	1.5	1.3	1.3	1.3	1.3	1.4	1.4	1.4
Indonesia	2.9	2.9	2.8	2.9	2.8	2.7	1.4	1.2	1.2	1.2
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaysia	2.6	2.6	2.7	2.8	2.5	2.3	2.3	2.2	2.2	2.2
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	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Other	2.7	2.4	2.3	2.2	2.1	2.0	2.0	1.8	1.8	1.8
OECD	19.7	20.5	20.4	18.5	18.9	21.9	22.5	22.2	21.9	21.9
Non-OECD	180.8	181.3	181.9	182.4	170.9	183.2	181.6	182.1	180.5	180.5
World	200.6	201.7	202.4	200.9	189.8	205.1	204.1	204.3	202.5	202.5

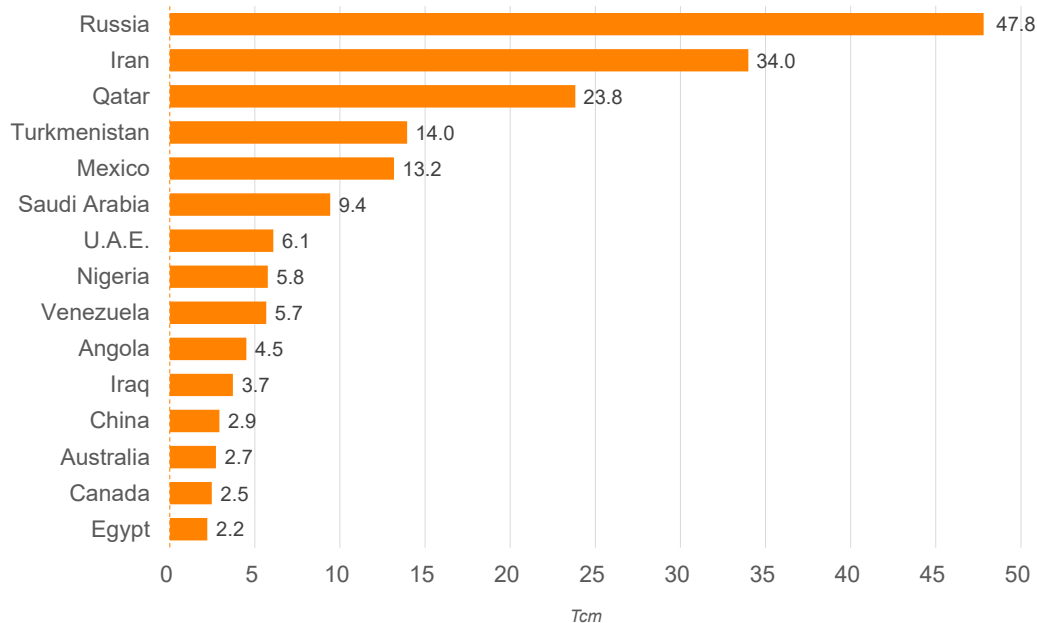
Note: Proved reserves of natural gas on 31/12.

Natural Gas Production (Bcm)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	884.1	888.9	942.3	973.1	975.8	995.5	1,100.1	1,182.1	1,171.4	1,199.1
Canada	156.3	157.5	164.1	165.0	183.8	190.6	195.5	188.0	184.5	190.9
Mexico	47.0	45.8	44.8	41.6	36.7	31.6	32.9	32.0	33.7	33.7
United States	680.8	685.7	733.4	766.5	755.3	773.3	871.7	962.2	953.1	974.5
South and Central America	154.6	156.8	157.4	156.9	155.5	157.8	158.6	159.1	137.8	136.1
Argentina	40.8	38.8	37.9	39.9	41.0	41.7	42.7	44.5	40.8	41.1
Brazil	20.3	22.4	24.0	24.8	25.0	28.3	25.5	26.7	24.8	25.3
Chile	1.2	1.0	0.8	1.0	1.2	1.2	1.2	1.5	1.2	1.1
Colombia	12.6	15.3	14.8	14.0	12.9	13.2	13.8	13.6	12.0	12.3
Peru	12.4	12.9	13.6	13.1	14.6	12.9	12.7	13.5	12.2	11.5
Trinidad & Tobago	41.0	41.2	41.0	38.2	33.3	33.4	36.0	36.5	31.0	26.3
Venezuela	23.3	22.5	22.6	23.0	24.5	24.0	23.7	19.6	13.1	16.1
Other	3.0	2.7	2.6	2.9	3.1	3.1	3.0	3.2	2.7	2.6
Europa	294.4	286.8	269.2	260.6	259.6	260.7	247.0	229.5	212.5	204.8
Czech Republic	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
France	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Germany	13.1	12.2	9.5	8.7	9.0	8.2	6.5	6.0	5.9	6.0
Italy	8.6	7.7	7.1	6.8	5.8	5.5	5.4	4.8	4.0	3.3
Netherlands	82.1	86.9	72.5	55.0	53.1	45.5	38.8	33.4	24.1	21.7
Norway	119.2	113.1	112.8	121.4	120.6	128.7	126.2	119.0	115.9	119.0
Poland	6.3	6.2	6.1	6.1	5.8	5.7	5.7	5.7	5.6	5.6
Romania	10.9	10.9	11.1	11.1	9.8	10.6	10.3	10.0	8.9	8.8
Spain	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0
Turkey	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
United Kingdom	39.6	37.4	38.8	40.5	41.7	42.1	41.0	39.7	40.0	32.6
EU	113.9	113.9	99.9	84.3	82.3	76.8	68.8	61.1	47.8	44.0
Other	13.1	11.3	10.6	10.4	13.0	13.7	12.3	10.2	7.4	7.1
Former Soviet Union	851.1	877.7	848.0	838.7	844.1	900.4	962.7	990.8	929.7	1,008.6
Azerbaijan	17.7	18.3	19.3	19.2	18.7	18.2	19.2	24.5	26.5	31.3
Kazakhstan	30.7	33.0	33.6	29.0	31.1	35.6	38.7	32.7	29.9	27.0
Russia	658.1	674.5	646.5	638.0	644.2	695.1	738.2	766.1	722.0	791.0
Turkmenistan	69.1	78.4	80.1	83.7	79.8	80.5	84.4	86.7	81.7	79.3
Ukraine	19.4	20.2	19.9	18.8	19.0	19.4	19.7	19.4	19.1	18.6
Uzbekistan	55.2	52.3	48.6	49.0	50.4	50.8	61.6	60.5	49.6	53.7
Other	1.0	1.0	0.0	0.9	0.9	0.7	1.0	0.9	0.9	7.7
Middle East	533.3	551.2	567.0	584.6	606.2	622.9	635.9	655.1	664.5	676.1
Iran	156.4	156.7	174.6	184.1	199.8	218.2	227.8	232.7	235.2	242.2
Iraq	7.0	7.0	6.8	6.9	7.6	8.7	11.8	12.2	14.3	16.0
Kuwait	15.5	16.3	15.0	16.9	17.1	16.9	17.9	19.6	21.5	21.1
Qatar	157.1	164.2	161.6	165.0	167.1	166.5	165.6	167.6	167.4	168.9
Saudi Arabia	81.1	82.0	85.1	87.3	90.8	95.5	96.8	98.2	99.6	101.4
United Arab Emirates	54.3	54.6	54.2	60.2	61.1	54.1	48.0	55.1	52.2	53.8
Other	62.0	70.4	69.6	64.2	62.7	63.0	67.9	69.8	74.3	72.6
Africa	212.4	200.8	202.0	203.6	218.4	236.5	247.4	248.4	243.0	266.7
Algeria	0.8	0.9	0.7	0.8	1.7	5.8	6.2	6.8	7.3	5.7
Angola	85.3	81.0	82.6	84.0	94.7	96.2	97.2	90.0	84.3	98.7
Egypt	54.1	48.1	43.1	38.3	42.6	53.0	62.1	68.9	72.2	79.2
Libya	12.2	12.8	12.5	15.5	15.6	14.3	13.9	14.2	10.6	11.2
Nigeria	41.2	37.2	42.4	43.7	42.2	45.1	45.7	46.2	46.5	44.9
South Africa	1.2	1.3	1.0	1.2	1.1	0.9	1.0	1.2	1.2	1.1
Other	17.7	19.5	19.8	20.2	20.5	21.2	21.3	21.2	21.1	25.8
Asia-Pacific	483.4	508.2	526.1	531.4	546.9	579.3	605.1	637.7	639.3	663.4
Australia	54.0	63.0	64.8	68.1	81.4	103.6	117.9	137.1	148.0	142.8
China	110.6	120.9	130.2	134.6	136.9	148.0	160.2	176.2	193.4	208.5
India	39.8	34.6	32.7	31.1	30.8	31.7	32.1	30.3	26.8	32.2
Indonesia	77.1	76.5	75.3	75.0	74.0	71.6	71.7	66.6	58.7	58.5
Japan	3.2	2.9	2.7	2.6	2.8	2.9	2.5	1.9	1.8	1.8
Malaysia	61.0	69.0	69.7	68.6	67.8	74.8	70.1	72.0	66.5	70.8
New Zealand	4.6	4.8	5.2	5.0	5.1	5.0	4.4	4.6	4.5	3.9
South Korea	0.4	0.5	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.1
Thailand	33.5	36.3	37.0	33.0	32.3	30.2	29.2	30.8	27.6	27.1
Other	99.2	99.9	108.1	113.4	115.6	111.1	116.6	117.9	111.8	117.7
OECD	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	1,593.6
Non-OECD	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	2,489.6
World	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	4,083.2

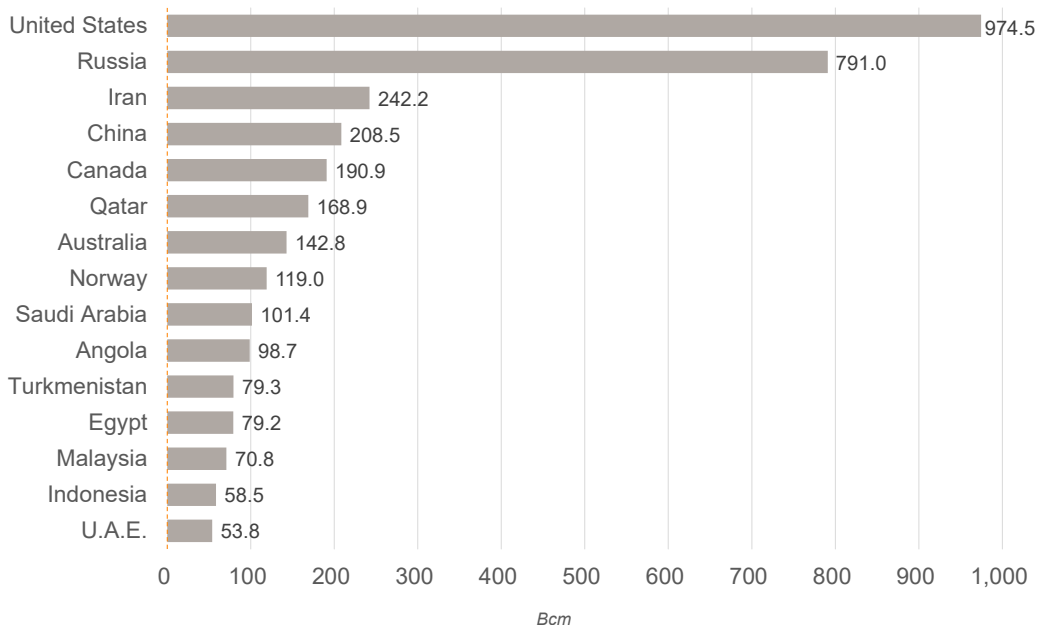
Natural Gas Demand (Bcm)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	911.2	923.6	941.0	959.8	973.4	973.3	1,069.3	1,091.2	1,062.7	1,064.0
Canada	106.6	111.4	115.6	114.9	116.5	122.0	134.8	132.5	126.9	132.8
Mexico	76.2	72.9	75.0	77.8	80.3	81.5	78.5	74.3	68.5	69.3
United States	728.3	739.4	750.5	767.1	776.7	769.8	856.0	884.4	867.4	861.9
South and Central America	154.9	161.7	166.3	168.0	161.6	162.7	162.8	159.2	142.7	157.0
Argentina	48.9	49.4	49.5	50.7	51.2	51.9	52.0	51.1	47.8	50.0
Brazil	34.0	39.8	43.6	43.2	36.9	39.3	36.4	36.6	34.5	42.3
Chile	4.9	4.9	4.1	4.4	4.8	5.0	5.3	6.3	6.6	6.1
Colombia	10.4	10.7	11.0	11.3	11.8	10.8	11.3	11.2	9.8	9.5
Peru	6.9	6.5	8.1	7.9	8.3	7.3	7.5	7.9	7.5	8.0
Trinidad & Tobago	20.7	21.0	20.6	20.3	18.5	18.4	18.5	18.9	16.3	16.7
Venezuela	22.9	22.5	22.3	23.0	22.7	22.8	23.8	18.1	12.1	14.5
Other	6.3	6.9	7.2	7.1	7.3	7.2	8.0	9.2	8.1	9.9
Europe	538.4	529.2	483.3	499.0	527.5	553.9	543.4	549.4	533.6	566.4
Belgium	18.1	18.2	16.0	17.2	17.4	17.8	18.4	18.5	18.4	18.5
Czech Republic	8.4	8.5	7.5	7.9	8.5	8.7	8.3	8.7	8.8	9.5
Finland	3.7	3.5	3.1	2.7	2.5	2.4	2.6	2.6	2.6	2.6
France	44.5	45.0	37.6	40.0	43.8	43.7	41.7	42.3	39.2	41.6
Germany	86.0	87.6	79.2	81.3	89.2	95.0	94.7	95.6	92.0	95.6
Italy	74.9	70.1	61.9	67.5	70.9	75.2	72.7	74.5	71.3	76.4
Netherlands	47.2	47.0	41.5	40.5	42.2	43.4	42.7	44.6	43.6	42.3
Norway	5.8	5.7	6.1	6.4	6.2	6.3	6.2	6.3	5.9	5.6
Poland	18.4	18.3	17.8	18.5	19.2	20.1	20.2	20.8	21.3	22.7
Portugal	4.5	4.3	4.1	4.7	5.0	6.3	5.7	6.1	6.0	5.7
Romania	13.5	12.6	12.0	11.3	11.3	11.8	11.8	11.0	11.4	11.6
Spain	32.4	29.6	27.2	28.2	28.8	31.1	31.0	35.4	31.9	33.7
Sweden	1.2	1.1	0.9	1.0	0.9	1.1	1.1	1.1	1.0	1.0
Turkey	45.3	45.9	48.7	48.1	46.4	54.0	49.7	45.3	48.2	60.0
United Kingdom	77.6	77.1	70.7	72.7	81.4	79.3	80.3	79.7	75.0	79.0
EU	382.2	374.5	331.4	346.7	368.2	385.2	378.1	391.8	380.3	396.6
Other	57.0	54.7	49.0	50.9	53.8	57.7	56.3	57.0	56.9	60.6
Former Soviet Union	658.8	652.5	628.5	598.5	598.4	620.4	657.9	674.0	663.2	745.8
Azerbaijan	10.7	10.7	11.5	11.4	11.2	10.8	11.0	12.5	12.6	12.7
Kazakhstan	25.2	27.0	15.2	14.8	15.1	16.4	16.5	19.3	21.1	22.1
Russia	471.1	465.9	464.6	445.4	444.1	463.0	498.5	510.1	493.1	565.1
Turkmenistan	24.2	24.8	25.2	26.2	26.2	26.2	26.2	27.1	26.8	36.7
Ukraine	51.8	47.7	40.3	32.0	31.4	30.2	30.6	28.3	29.3	26.1
Uzbekistan	49.8	48.3	44.7	42.5	44.8	47.5	47.6	49.3	54.2	58.6
Other	26.0	28.0	27.1	26.3	25.6	26.3	27.5	27.4	26.1	24.5
Middle East	411.4	424.3	450.9	480.6	500.5	513.9	516.5	533.6	551.7	558.4
Iran	151.8	152.9	172.5	184.1	196.7	209.0	211.9	212.3	218.6	225.1
Iraq	7.0	7.0	6.8	6.9	7.6	11.0	13.8	17.4	19.0	22.1
Kuwait	18.2	18.5	18.3	20.9	22.1	22.4	22.9	24.8	27.5	28.5
Qatar	40.5	44.3	48.2	50.0	48.7	47.0	49.5	50.2	47.7	49.8
Saudi Arabia	81.1	82.0	85.1	87.3	90.8	95.5	96.8	98.2	99.6	101.4
United Arab Emirates	66.2	67.5	66.3	74.2	74.7	68.5	60.2	67.9	64.9	64.7
Other	46.6	52.2	53.7	57.1	59.8	60.4	61.5	62.9	74.5	66.7
Africa	125.5	125.0	125.7	133.6	143.3	154.3	159.7	163.5	163.1	168.3
Algeria	33.8	34.6	37.8	40.6	40.7	42.1	45.7	47.1	45.0	45.0
Angola	0.8	0.4	0.3	0.8	0.8	0.8	0.9	1.3	1.2	1.2
Egypt	47.9	46.0	42.7	45.0	50.8	60.6	61.8	62.9	65.6	68.6
Libya	7.6	8.5	7.5	8.5	11.5	11.6	11.2	11.1	10.0	10.0
Nigeria	15.4	15.8	18.0	18.4	18.8	17.4	18.1	18.3	18.4	19.6
South Africa	5.0	5.0	4.8	5.3	5.4	5.2	4.9	4.9	4.8	4.8
Other	15.1	14.6	14.6	15.1	15.4	16.5	17.1	17.9	18.1	19.0
Asia-Pacific	653.5	675.5	695.8	701.6	730.1	766.4	816.0	846.3	858.6	909.3
Australia	33.9	36.0	36.7	37.1	38.1	39.2	40.5	39.7	41.2	39.3
China	147.2	167.5	184.5	191.8	207.9	237.8	278.5	302.7	324.5	365.0
India	55.3	51.5	51.6	54.6	58.4	61.6	61.3	63.8	60.3	64.5
Indonesia	40.8	41.9	42.9	42.9	41.6	39.6	44.5	47.5	41.3	41.0
Japan	129.0	117.7	118.6	113.0	115.5	112.5	109.7	105.2	105.3	100.7
Malaysia	38.1	45.0	45.4	44.4	42.3	46.4	45.9	47.3	44.5	43.6
New Zealand	4.5	4.8	5.4	5.1	5.1	5.2	4.6	4.7	4.6	3.9
South Korea	50.2	52.6	47.4	44.3	47.0	48.8	54.1	52.2	53.6	58.3
Thailand	45.0	48.4	48.4	48.2	47.3	44.6	45.9	48.3	45.2	45.5
Other	109.4	110.1	114.9	120.2	126.9	130.9	131.0	134.9	138.0	147.4
OECD	1,647.9	1,650.8	1,621.1	1,648.1	1,697.8	1,723.2	1,811.7	1,834.6	1,793.8	1,822.9
Non-OECD	1,805.8	1,841.0	1,870.5	1,893.2	1,937.1	2,021.7	2,113.8	2,182.6	2,182.0	2,346.3
World	3,453.7	3,491.8	3,491.7	3,541.3	3,634.9	3,744.9	3,925.5	4,017.2	3,975.8	4,169.3

Note: Natural gas primary demand including power generation feedstock.

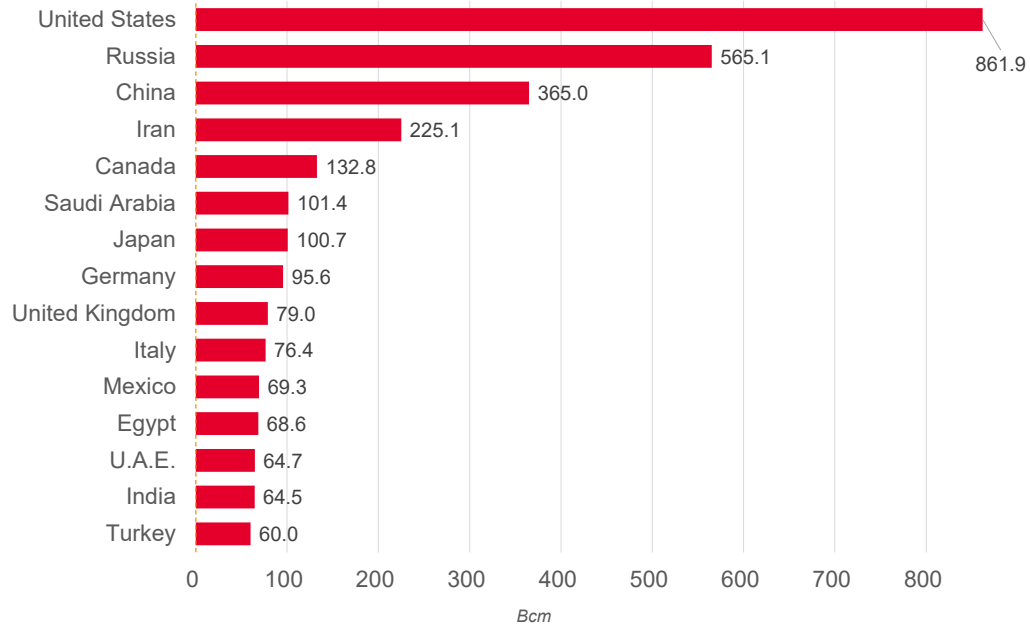
Top 15 Countries - Natural Gas Proved Reserves, 2021



Top 15 Countries - Natural Gas Production, 2021



Top 15 Countries - Natural Gas Demand, 2021



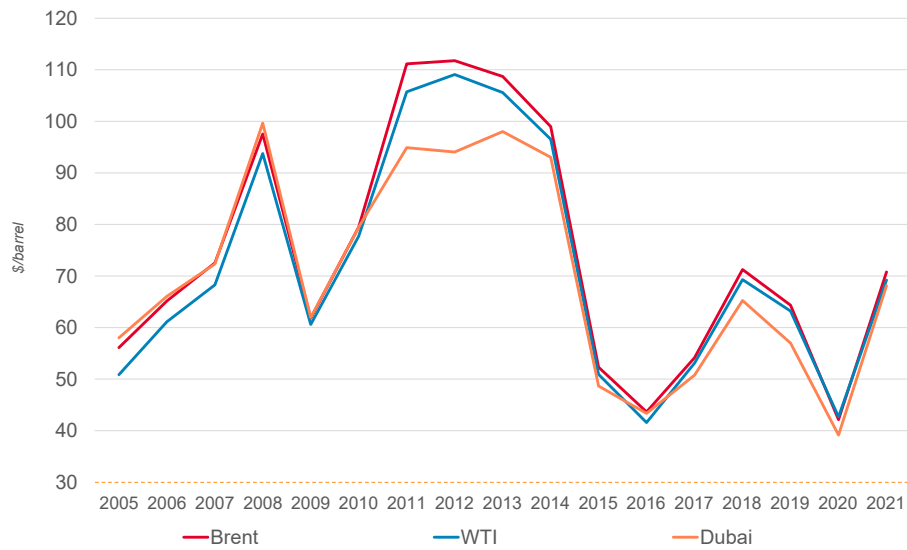


Oil and
Natural Gas
prices

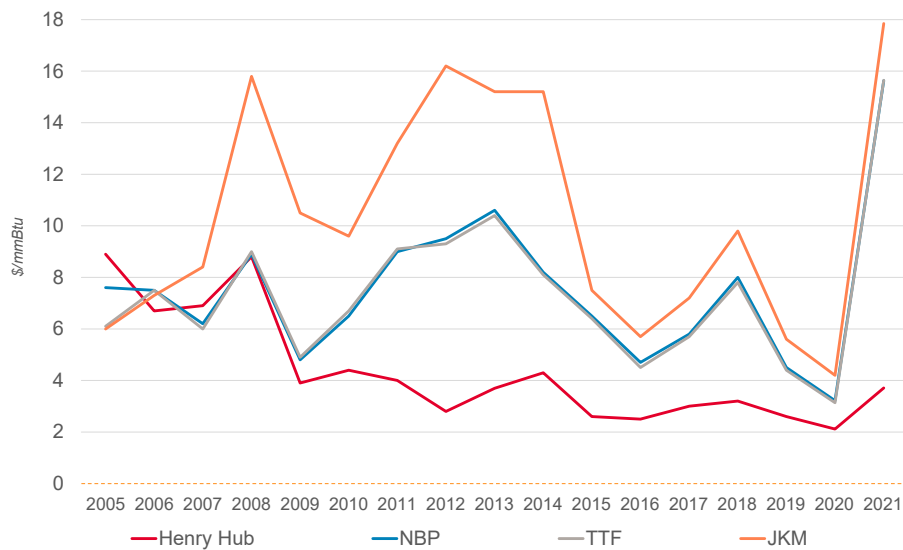
Oil and Natural Gas Prices	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Crude oil (\$ per barrel)										
Brent	111.8	108.7	99.0	52.3	43.7	54.2	71.3	64.3	42.1	70.8
WTI	109.1	105.6	96.5	50.9	41.6	53.1	69.3	63.2	42.7	69.2
Dubai	94.1	98.0	93.0	48.7	43.3	50.8	65.2	57.0	39.2	68.1
Natural gas (dollar per million Btu)										
Henry Hub (HH)	2.8	3.7	4.3	2.6	2.5	3.0	3.2	2.6	2.1	3.7
National Balancing Point (NBP)	9.5	10.6	8.2	6.5	4.7	5.8	8.0	4.5	3.2	15.6
Japan Korea Marker (JKM)	16.2	15.2	15.2	7.5	5.7	7.2	9.8	5.6	4.2	17.9
Title Transfer Facility (TTF)	9.3	10.4	8.1	6.4	4.5	5.7	7.8	4.4	3.1	15.7

Source: Thomson Reuters

Crude Oil Price Benchmarks



Natural Gas Price Benchmarks





Power
Generation

Total Power Generation (TWh)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	5,230	5,261	5,301	5,286	5,306	5,271	5,467	5,381	5,244	5,364
Canada	632	658	659	658	664	663	654	645	641	633
Mexico	307	297	301	311	321	322	358	344	338	350
United States	4,291	4,306	4,340	4,317	4,322	4,286	4,455	4,392	4,265	4,381
South and Central America	1,190	1,236	1,230	1,271	1,273	1,280	1,299	1,303	1,275	1,370
Argentina	136	139	139	145	147	146	147	140	145	153
Brazil	552	571	590	581	579	589	601	626	621	680
Chile	70	73	71	75	79	79	82	85	85	89
Colombia	64	74	71	79	77	79	80	80	79	85
Peru	40	44	46	48	52	53	55	57	53	n.d.
Trinidad & Tobago	9	10	9	10	9	9	9	9	9	n.d.
Venezuela	122	123	103	123	108	104	100	85	72	n.d.
Other	197	202	201	209	222	220	224	221	211	n.d.
Europe	3,848	3,823	3,753	3,815	3,852	3,900	3,897	3,838	3,725	3,860
Belgium	83	83	73	70	86	87	75	94	89	100
Czech Republic	87	87	86	84	83	87	88	87	82	85
Finland	70	71	68	69	69	68	70	69	69	72
France	573	582	573	579	564	562	582	571	532	555
Germany	628	639	628	648	650	654	640	607	573	584
Italy	299	290	280	283	290	296	290	294	281	287
Netherlands	103	102	103	110	115	117	114	121	124	120
Norway	148	134	142	145	149	149	147	135	154	157
Poland	162	165	159	165	167	170	170	164	158	181
Portugal	47	52	53	52	60	59	60	53	53	50
Romania	59	59	66	66	65	64	65	60	56	59
Spain	298	286	279	281	275	276	274	273	263	272
Sweden	167	153	154	162	156	164	163	168	164	169
Turkey	239	240	252	262	274	297	305	304	307	333
United Kingdom	364	358	338	340	339	338	333	323	311	309
EU	2,939	2,921	2,861	2,907	2,928	2,961	2,943	2,907	2,786	2,889
Other	521	522	501	499	510	511	521	515	510	528
Former Soviet Union	1,528	1,535	1,528	1,512	1,540	1,550	1,588	1,591	1,549	1,646
Azerbaijan	23	23	25	25	25	24	25	26	26	n.d.
Kazakhstan	93	103	95	92	95	103	108	107	109	115
Russia	1,071	1,059	1,064	1,068	1,091	1,094	1,115	1,121	1,087	1,157
Ukraine	199	194	183	164	165	156	160	154	148	157
Uzbekistan	53	55	56	57	59	61	63	64	61	65
Other	90	100	105	106	106	111	118	119	118	153
Middle East	979	1,012	1,082	1,132	1,171	1,224	1,236	1,275	1,279	1,345
Iran	254	262	275	281	289	308	309	323	339	348
Iraq	46	58	68	69	80	87	83	96	92	n.d.
Kuwait	61	61	65	68	70	73	74	75	75	84
Qatar	35	35	39	41	42	46	48	50	49	52
Saudi Arabia	289	302	336	359	368	378	387	386	386	403
United Arab Emirates	106	110	117	127	130	135	136	138	138	n.d.
Other	188	183	182	187	192	197	199	208	200	n.d.
Africa	712	734	760	785	799	824	844	867	859	889
Algeria	62	65	71	75	78	83	84	90	87	91
Angola	6	8	9	10	10	11	13	15	16	n.d.
Egypt	150	154	161	173	177	185	188	194	202	211
Libya	34	38	38	38	31	33	34	34	28	n.d.
Nigeria	29	29	32	32	37	32	32	31	33	34
South Africa	258	256	253	250	253	255	256	253	240	245
Other	173	184	197	208	212	225	236	250	254	n.d.
Asia-Pacific	9,291	9,874	10,390	10,534	11,087	11,750	12,370	12,783	13,020	13,959
Australia	251	249	247	251	257	258	261	264	265	266
China	4,994	5,447	5,817	5,854	6,200	6,715	7,143	7,504	7,782	8,537
India	1,116	1,184	1,289	1,357	1,432	1,509	1,608	1,624	1,592	1,669
Indonesia	200	216	228	234	248	255	284	295	292	309
Japan	1,099	1,104	1,076	1,059	1,071	1,081	1,068	1,045	1,037	1,030
Malaysia	134	138	147	150	157	164	171	176	170	172
New Zealand	44	43	44	44	44	44	44	45	44	44
South Korea	535	542	551	553	563	567	590	581	570	595
Taiwan	250	252	260	258	264	270	276	274	280	291
Thailand	165	170	172	177	188	182	182	191	179	179
Other	502	526	558	596	664	705	743	784	808	867
OECD	10,934	10,942	10,891	10,928	11,019	11,056	11,256	11,102	10,839	11,106
Non-OECD	11,845	12,531	13,153	13,407	14,009	14,743	15,446	15,938	16,111	17,327
World	22,778	23,474	24,043	24,335	25,028	25,799	26,701	27,040	26,950	28,433

Renewables in Power Generation (%)										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	19.0%	19.8%	19.9%	20.3%	21.9%	23.9%	23.4%	24.1%	26.3%	26.5%
Canada	63.6%	64.1%	63.2%	64.0%	64.8%	66.5%	66.3%	66.2%	67.9%	68.0%
Mexico	13.8%	13.3%	17.5%	15.3%	15.3%	16.0%	15.2%	16.0%	19.2%	21.9%
United States	12.4%	13.0%	13.4%	13.6%	15.3%	17.3%	17.2%	17.9%	20.0%	20.5%
South and Central America	66.7%	63.8%	62.6%	61.2%	64.2%	66.5%	68.9%	69.5%	72.1%	69.1%
Argentina	23.5%	25.6%	25.1%	23.8%	21.7%	23.5%	24.1%	25.3%	25.7%	24.5%
Brazil	82.6%	76.8%	73.3%	74.1%	80.5%	79.2%	82.4%	82.3%	84.2%	78.4%
Chile	36.4%	35.7%	42.9%	43.6%	43.3%	43.9%	46.3%	46.6%	48.5%	47.2%
Colombia	78.1%	69.4%	69.4%	63.6%	65.9%	79.3%	76.9%	70.1%	65.6%	74.5%
Peru	55.3%	53.9%	52.4%	52.7%	50.4%	58.6%	60.8%	60.3%	63.8%	n.d.
Trinidad & Tobago	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	n.d.
Venezuela	67.4%	67.9%	62.3%	61.1%	58.4%	58.4%	58.4%	58.4%	87.1%	n.d.
Europe	28.4%	30.9%	32.3%	33.6%	34.0%	33.8%	36.3%	38.6%	42.8%	40.7%
Belgium	14.2%	15.6%	18.5%	22.3%	18.0%	19.6%	24.3%	21.7%	27.4%	23.8%
Czech Republic	10.1%	11.8%	11.9%	12.8%	12.7%	12.4%	11.9%	12.9%	14.3%	13.9%
Finland	40.6%	36.0%	38.6%	44.5%	44.2%	46.6%	45.7%	46.4%	51.6%	n.d.
France	15.7%	18.0%	17.4%	16.7%	18.4%	17.4%	20.4%	20.6%	24.3%	22.6%
Germany	23.7%	24.8%	26.8%	30.0%	34.0%	34.0%	35.6%	40.6%	44.8%	41.5%
Italy	31.5%	39.3%	43.7%	39.0%	37.9%	35.7%	40.1%	40.0%	42.4%	41.4%
Netherlands	12.1%	11.9%	11.3%	12.4%	12.8%	14.9%	16.5%	18.8%	26.7%	32.8%
Norway	98.0%	97.7%	97.7%	97.7%	97.8%	97.8%	97.8%	97.7%	98.4%	99.0%
Poland	10.7%	10.7%	12.8%	14.1%	14.0%	14.4%	13.0%	16.0%	18.4%	17.4%
Portugal	43.8%	59.2%	61.4%	48.7%	55.5%	40.9%	51.4%	54.2%	59.6%	65.5%
Romania	25.7%	34.8%	42.0%	40.1%	42.2%	38.3%	41.0%	42.0%	44.6%	44.4%
Spain	30.4%	40.5%	40.9%	35.7%	39.3%	32.9%	38.8%	37.8%	44.5%	47.1%
Sweden	59.1%	54.1%	55.9%	63.3%	57.2%	57.9%	55.8%	58.7%	68.5%	67.0%
Turkey	27.2%	28.8%	20.9%	32.0%	32.9%	29.3%	32.1%	43.5%	41.8%	35.2%
United Kingdom	12.2%	15.7%	19.9%	25.6%	25.3%	30.1%	33.8%	37.9%	44.4%	40.7%
EU	25.7%	28.6%	30.3%	30.4%	30.7%	30.5%	32.8%	34.5%	39.0%	37.7%
Former Soviet Union	15.0%	16.6%	16.0%	15.7%	16.9%	17.2%	17.3%	17.4%	19.3%	19.0%
Azerbaijan	7.9%	6.7%	5.6%	7.0%	8.4%	7.8%	7.8%	7.0%	5.1%	n.d.
Kazakhstan	8.2%	7.5%	8.8%	10.4%	12.7%	11.3%	10.4%	10.8%	11.0%	10.9%
Russia	15.7%	17.3%	16.7%	16.0%	17.2%	17.2%	17.4%	17.7%	20.1%	19.3%
Ukraine	5.9%	8.1%	6.0%	5.3%	6.6%	8.0%	9.1%	8.6%	11.8%	16.1%
Uzbekistan	12.6%	10.4%	10.9%	11.9%	11.7%	13.0%	9.4%	10.2%	8.1%	9.1%
Middle East	2.2%	2.4%	2.0%	1.7%	2.1%	1.9%	2.1%	2.5%	2.4%	2.2%
Iran	5.0%	5.7%	5.2%	5.1%	5.8%	5.0%	5.4%	5.2%	3.6%	n.d.
Iraq	9.5%	8.2%	4.4%	3.8%	4.3%	2.6%	2.3%	2.0%	2.0%	n.d.
Kuwait	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.2%	0.2%
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%	0.1%	0.1%	0.1%
United Arab Emirates	0.0%	0.1%	0.3%	0.2%	0.2%	0.5%	1.0%	2.7%	3.7%	n.d.
Africa	17.0%	17.4%	18.3%	18.0%	18.2%	18.8%	20.0%	20.4%	21.4%	22.1%
Algeria	1.0%	0.5%	0.4%	0.3%	0.4%	0.8%	0.9%	0.9%	0.8%	0.8%
Angola	60.8%	58.0%	53.2%	53.2%	56.1%	71.4%	76.2%	70.4%	74.5%	n.d.
Egypt	9.7%	9.6%	9.7%	9.1%	8.8%	8.4%	9.4%	9.4%	9.5%	9.7%
Libya	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Nigeria	19.8%	18.5%	16.6%	17.7%	22.4%	24.1%	20.9%	21.6%	20.0%	19.8%
South Africa	1.8%	1.7%	2.6%	3.5%	4.4%	5.7%	6.6%	7.0%	7.8%	9.2%
Asia-Pacific	16.4%	17.1%	18.2%	18.9%	19.8%	20.3%	21.1%	22.0%	23.2%	23.8%
Australia	10.5%	13.2%	14.6%	13.3%	14.6%	15.7%	17.1%	19.7%	22.6%	26.7%
China	20.1%	20.5%	22.4%	24.1%	25.0%	25.2%	26.1%	27.3%	28.4%	28.8%
India	16.1%	17.6%	16.5%	15.3%	16.1%	16.9%	17.9%	20.0%	19.9%	20.4%
Indonesia	11.2%	12.3%	11.5%	10.7%	12.6%	12.5%	17.3%	16.7%	18.6%	18.7%
Japan	10.1%	10.9%	12.4%	14.2%	14.7%	16.2%	17.1%	18.6%	20.1%	22.3%
Malaysia	7.4%	8.6%	9.7%	10.0%	13.5%	16.9%	16.6%	16.5%	18.5%	18.1%
New Zealand	71.9%	74.3%	79.2%	80.1%	84.3%	81.2%	83.4%	81.7%	80.1%	80.9%
South Korea	2.0%	2.4%	2.5%	2.6%	3.5%	4.0%	4.6%	5.3%	6.6%	8.6%
Taiwan	4.8%	4.9%	4.4%	4.6%	5.4%	5.2%	5.2%	6.1%	6.0%	6.5%
Thailand	8.3%	8.0%	8.2%	7.9%	13.5%	14.2%	16.6%	17.7%	16.7%	17.7%
OECD	20.3%	21.5%	22.3%	23.2%	24.1%	25.3%	25.9%	27.3%	30.1%	30.3%
Non-OECD	21.8%	22.2%	22.5%	22.9%	23.9%	24.2%	25.1%	25.6%	26.8%	26.6%
World	21.1%	21.9%	22.4%	23.0%	24.0%	24.7%	25.4%	26.3%	28.1%	28.1%



CO₂ Emissions
from Fossil Fuels

Total CO₂ Emissions (Million tonnes of carbon dioxide)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	6,347	6,456	6,493	6,363	6,264	6,207	6,322	6,222	5,531	5,848
Canada	617	624	623	622	618	627	641	641	574	594
Mexico	499	490	479	493	503	495	471	465	396	409
United States	5,230	5,343	5,391	5,248	5,143	5,085	5,210	5,116	4,561	4,844
South and Central America	1,319	1,376	1,403	1,387	1,342	1,318	1,292	1,283	1,147	1,221
Argentina	183	189	185	192	189	185	182	204	177	177
Brazil	501	532	562	528	488	497	471	473	448	510
Chile	82	85	78	83	90	91	92	100	93	99
Colombia	71	79	81	83	87	79	82	90	81	79
Peru	49	50	53	54	57	54	54	57	51	n.d.
Trinidad & Tobago	44	43	42	42	39	39	38	39	33	n.d.
Venezuela	194	196	195	183	170	156	145	116	72	n.d.
Other	196	202	206	221	223	217	227	235	209	n.d.
Europe	4,353	4,251	4,082	4,135	4,149	4,209	4,126	3,951	3,608	3,864
Belgium	111	113	106	110	109	108	109	108	99	105
Czech Republic	116	111	108	108	109	112	111	105	96	100
Finland	54	55	51	47	51	48	50	46	40	n.d.
France	372	372	340	345	345	351	340	332	294	324
Germany	814	830	793	792	801	781	754	708	649	690
Italy	399	365	348	355	351	347	342	334	298	324
Netherlands	184	183	176	183	184	182	177	171	153	155
Norway	48	48	48	49	48	48	48	46	44	45
Poland	332	329	317	322	332	346	345	327	310	333
Portugal	51	51	50	54	53	58	53	49	43	42
Romania	89	78	78	77	76	79	80	78	73	77
Spain	288	262	262	277	270	286	281	261	218	233
Sweden	48	46	45	45	45	45	42	41	38	38
Turkey	352	343	365	377	401	443	440	423	422	471
United Kingdom	488	476	436	423	399	386	379	366	317	338
EU	3,322	3,240	3,105	3,150	3,161	3,192	3,121	2,977	2,692	2,862
Other	606	589	560	569	575	589	576	556	515	n.d.
Former Soviet Union	2,735	2,691	2,575	2,502	2,505	2,555	2,665	2,705	2,611	2,839
Azerbaijan	30	31	33	33	33	33	34	37	35	n.d.
Kazakhstan	261	278	232	204	218	232	234	228	224	240
Russia	1,842	1,789	1,770	1,772	1,752	1,803	1,888	1,937	1,849	2,025
Ukraine	329	314	266	224	225	204	216	203	187	182
Uzbekistan	114	113	106	101	107	112	115	120	135	145
Other	159	165	170	169	170	172	180	182	181	n.d.
Middle East	1,897	1,930	1,991	2,017	2,036	2,066	2,038	2,077	2,042	2,063
Iran	618	638	662	650	655	683	697	693	689	n.d.
Iraq	128	138	132	130	139	152	160	175	155	n.d.
Kuwait	87	88	87	91	93	93	93	94	94	105
Qatar	86	88	95	98	100	101	100	105	111	111
Saudi Arabia	507	515	551	576	573	560	534	540	541	536
United Arab Emirates	181	188	188	201	208	204	185	197	182	n.d.
Other	290	274	277	271	269	274	269	273	269	n.d.
Africa	1,275	1,307	1,355	1,346	1,365	1,398	1,442	1,484	1,409	1,536
Algeria	130	133	144	152	150	150	160	165	158	160
Angola	39	42	44	44	42	37	33	37	32	n.d.
Egypt	229	226	226	231	238	252	269	272	267	284
Libya	56	59	63	58	58	64	65	64	56	n.d.
Nigeria	103	114	120	113	115	115	116	122	123	132
South Africa	445	456	467	443	444	451	456	464	430	464
Other	272	278	290	306	318	328	343	359	344	n.d.
Asia-Pacific	17,034	17,662	17,934	17,876	18,020	18,398	18,780	19,032	18,790	19,678
Australia	411	409	399	406	417	423	423	424	411	397
China	10,613	11,172	11,244	11,094	11,129	11,241	11,409	11,563	11,711	12,443
India	2,021	2,061	2,235	2,256	2,299	2,432	2,558	2,556	2,385	2,507
Indonesia	520	483	518	526	517	548	612	664	577	597
Japan	1,303	1,317	1,272	1,233	1,220	1,207	1,168	1,133	1,094	1,103
Malaysia	218	237	245	245	243	259	261	271	261	269
New Zealand	35	35	36	36	35	37	36	37	36	35
South Korea	681	680	677	691	708	717	722	703	644	662
Taiwan	269	273	279	278	282	290	287	275	269	273
Thailand	267	280	276	283	281	278	276	286	278	276
Other	695	714	754	828	887	966	1,029	1,119	1,123	1,116
OECD	13,002	13,035	12,847	12,748	12,682	12,683	12,680	12,367	11,226	11,796
Non-OECD	21,957	22,638	22,986	22,878	22,998	23,469	23,985	24,387	23,911	25,253
World	34,959	35,673	35,832	35,626	35,680	36,151	36,665	36,755	35,138	37,049

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 <i>(Million tonnes of carbon dioxide)</i>	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	2,521	2,542	2,544	2,589	2,601	2,594	2,638	2,618	2,239	2,402
Canada	276	277	272	277	275	281	287	290	251	259
Mexico	263	259	247	245	254	247	235	239	210	224
United States	1,982	2,005	2,024	2,067	2,072	2,066	2,115	2,089	1,778	1,919
South and Central America	777	795	803	781	759	743	722	716	629	661
Argentina	76	79	75	79	78	73	69	67	58	60
Brazil	313	326	339	316	299	302	282	286	273	295
Chile	44	45	44	45	47	48	49	49	45	50
Colombia	34	36	37	38	41	38	39	40	34	38
Peru	26	27	27	28	30	31	31	32	28	n.d.
Trinidad & Tobago	4	4	4	4	4	4	3	3	3	n.d.
Venezuela	115	112	111	95	83	77	70	57	33	n.d.
Other	164	166	167	176	176	172	179	182	155	n.d.
Europe	1,555	1,522	1,505	1,540	1,564	1,588	1,571	1,563	1,401	1,466
Belgium	46	47	45	48	47	46	45	44	40	43
Czech Republic	21	20	21	22	21	23	23	23	21	23
Finland	23	23	21	21	23	22	22	21	19	n.d.
France	200	197	192	193	190	190	183	180	159	173
Germany	257	263	256	254	256	255	250	256	241	234
Italy	165	152	152	154	148	143	145	142	120	133
Netherlands	61	60	58	58	59	59	58	57	53	45
Norway	23	23	23	23	23	22	22	21	20	22
Poland	63	59	58	62	69	78	80	82	79	83
Portugal	25	25	25	25	25	26	25	26	23	24
Romania	25	23	24	24	25	27	28	28	28	28
Spain	139	134	133	140	144	145	146	144	121	130
Sweden	30	28	28	27	27	26	24	23	21	23
Turkey	79	82	87	97	106	123	118	116	114	122
United Kingdom	160	155	155	160	164	165	162	159	124	135
EU	1,239	1,206	1,188	1,209	1,219	1,226	1,217	1,215	1,098	1,137
Other	236	229	227	233	237	240	240	240	216	n.d.
Former Soviet Union	476	477	482	481	471	484	474	480	458	497
Azerbaijan	10	10	10	11	11	11	11	12	10	n.d.
Kazakhstan	33	47	33	42	46	44	42	37	34	40
Russia	338	327	348	341	322	340	329	340	325	346
Ukraine	37	36	31	29	31	29	29	30	27	27
Uzbekistan	10	9	9	9	10	10	11	11	12	13
Other	48	49	50	49	51	50	52	51	50	n.d.
Middle East	909	927	940	912	889	888	860	862	797	802
Iran	239	259	246	217	196	197	204	200	185	n.d.
Iraq	91	99	93	88	93	99	102	106	88	n.d.
Kuwait	50	50	48	48	47	46	46	43	39	47
Qatar	15	14	17	16	17	17	16	19	27	24
Saudi Arabia	330	335	365	387	376	357	330	333	331	323
United Arab Emirates	40	44	45	42	46	53	48	46	37	n.d.
Other	145	126	126	115	113	120	115	114	91	n.d.
Africa	491	524	543	549	546	544	550	564	527	597
Algeria	51	52	55	58	56	55	56	58	55	57
Angola	15	19	20	20	18	15	15	16	14	n.d.
Egypt	107	110	118	121	117	106	104	107	103	113
Libya	34	36	37	31	28	28	29	28	24	n.d.
Nigeria	43	55	60	54	57	57	57	61	61	67
South Africa	68	73	70	74	70	76	78	77	67	72
Other	172	179	183	191	200	207	211	216	202	n.d.
Asia-Pacific	3,211	3,273	3,288	3,432	3,482	3,573	3,608	3,647	3,515	3,672
Australia	131	137	135	135	135	138	140	142	135	132
China	1,150	1,208	1,233	1,324	1,349	1,393	1,440	1,485	1,511	1,593
India	456	463	488	534	566	596	601	607	541	565
Indonesia	237	231	234	225	204	218	238	227	193	209
Japan	528	505	463	444	426	414	396	380	356	356
Malaysia	73	84	88	82	80	81	80	83	75	85
New Zealand	18	18	18	19	19	20	20	21	19	19
South Korea	182	182	179	191	199	195	189	191	180	187
Taiwan	76	75	77	80	80	79	76	72	63	60
Thailand	103	105	105	109	112	113	112	115	109	102
Other	257	265	268	290	312	326	317	325	333	364
OECD	4,927	4,892	4,825	4,900	4,927	4,928	4,933	4,892	4,309	4,543
Non-OECD	5,012	5,167	5,281	5,386	5,387	5,486	5,490	5,558	5,258	5,554
World	9,939	10,059	10,106	10,286	10,314	10,414	10,423	10,450	9,567	10,097

Natural Gas CO₂ Emissions (Million tonnes of carbon dioxide)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	1,750	1,780	1,816	1,863	1,884	1,867	2,005	2,102	2,046	2,057
Canada	205	214	225	226	225	229	247	248	237	248
Mexico	152	147	145	151	156	159	156	148	136	138
United States	1,394	1,418	1,446	1,486	1,504	1,480	1,603	1,706	1,672	1,672
South and Central America	293	307	317	320	308	311	305	297	268	292
Argentina	93	95	95	97	97	98	98	94	88	92
Brazil	66	78	85	84	72	77	73	74	69	85
Chile	9	9	8	8	9	10	10	12	12	11
Colombia	18	19	19	20	21	19	20	21	19	18
Peru	16	15	18	18	19	17	17	18	17	n.d.
Trinidad & Tobago	31	32	31	31	28	28	28	29	25	n.d.
Venezuela	47	46	46	47	46	47	43	33	22	n.d.
Other	13	14	15	15	15	16	16	17	15	n.d.
Europe	1,024	1,007	917	953	1,009	1,051	1,024	1,038	1,015	1,079
Belgium	34	34	30	32	33	33	34	35	34	34
Czech Republic	16	17	15	16	17	17	16	17	17	19
Finland	7	7	6	5	5	5	5	5	5	n.d.
France	90	91	76	81	89	89	85	86	80	85
Germany	164	168	151	156	171	174	167	170	172	179
Italy	143	134	118	129	135	143	139	142	136	146
Netherlands	77	77	68	66	69	71	70	73	72	69
Norway	12	12	13	14	13	14	13	13	12	12
Poland	31	31	30	31	33	34	35	36	37	40
Portugal	9	9	8	10	10	13	12	12	12	12
Romania	24	23	21	21	21	22	22	21	21	22
Spain	66	60	55	57	58	63	63	72	65	68
Sweden	2	2	2	2	2	2	2	2	2	2
Turkey	87	89	94	93	89	104	95	87	93	115
United Kingdom	153	152	137	144	162	157	159	158	148	157
EU	760	742	662	691	733	763	744	767	749	780
Other	108	104	93	97	102	109	107	108	107	n.d.
Former Soviet Union	1,223	1,213	1,159	1,099	1,120	1,159	1,207	1,221	1,202	1,351
Azerbaijan	19	19	21	20	20	20	21	23	24	n.d.
Kazakhstan	54	58	28	27	29	33	33	39	43	45
Russia	870	861	857	817	834	865	907	914	885	1,013
Ukraine	96	88	73	58	57	56	57	52	53	47
Uzbekistan	92	89	83	79	83	88	89	92	101	110
Other	92	96	97	97	97	98	101	100	97	n.d.
Middle East	767	783	831	889	929	959	959	991	1,025	1,037
Iran	294	297	335	358	383	405	411	411	424	n.d.
Iraq	13	13	13	13	14	21	26	33	36	n.d.
Kuwait	35	35	35	40	42	43	44	47	53	55
Qatar	60	62	65	69	70	72	72	73	70	73
Saudi Arabia	152	154	160	164	170	179	182	184	187	191
United Arab Emirates	126	127	125	140	141	129	113	128	122	n.d.
Other	86	96	99	105	109	110	111	114	133	n.d.
Africa	233	230	234	246	262	283	296	303	302	311
Algeria	65	66	73	78	78	80	87	90	86	86
Angola	1	1	1	1	2	2	2	2	2	n.d.
Egypt	89	85	80	84	94	112	115	117	123	127
Libya	14	16	14	16	21	21	20	20	18	n.d.
Nigeria	29	30	33	33	34	31	33	33	33	36
South Africa	5	5	5	5	5	5	5	5	5	5
Other	30	28	29	29	30	32	33	35	35	n.d.
Asia-Pacific	1,221	1,291	1,328	1,340	1,395	1,468	1,568	1,631	1,639	1,733
Australia	63	68	69	70	72	74	76	78	81	77
China	282	323	354	371	402	461	543	591	633	712
India	97	89	89	94	102	110	109	114	108	115
Indonesia	80	82	84	84	82	78	88	94	62	62
Japan	241	248	250	239	244	237	228	219	220	210
Malaysia	66	77	80	78	72	80	78	81	75	74
New Zealand	8	9	10	9	9	9	8	9	9	7
South Korea	106	111	100	93	99	103	114	110	116	124
Taiwan	35	36	38	41	43	47	47	46	50	54
Thailand	82	87	87	87	86	81	83	87	82	83
Other	160	160	167	174	184	189	192	201	202	214
OECD	3,159	3,200	3,143	3,208	3,302	3,325	3,438	3,542	3,474	3,537
Non-OECD	3,351	3,411	3,458	3,500	3,607	3,773	3,925	4,040	4,025	4,323
World	6,510	6,611	6,601	6,709	6,909	7,098	7,364	7,583	7,497	7,860

Coal CO₂ Emissions (Million tonnes of carbon dioxide)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	1,778	1,835	1,825	1,595	1,472	1,442	1,361	1,168	948	1,075
Canada	78	75	72	66	65	66	54	50	38	38
Mexico	51	52	51	55	48	51	43	42	18	15
United States	1,649	1,707	1,702	1,474	1,358	1,326	1,264	1,076	892	1,022
South and Central America	101	119	122	126	122	117	116	121	116	125
Argentina	4	4	4	5	4	4	4	2	2	3
Brazil	52	59	65	65	60	60	58	55	50	66
Chile	25	28	25	28	29	30	28	32	29	29
Colombia	11	17	17	17	17	14	15	19	20	15
Peru	3	3	3	3	3	3	2	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	0	0	0	1	n.d.
Other	5	6	7	8	8	7	8	10	11	n.d.
Europe	1,404	1,355	1,289	1,273	1,202	1,189	1,146	977	841	944
Belgium	15	16	14	14	13	13	13	13	10	12
Czech Republic	68	65	63	62	63	62	62	56	48	49
Finland	20	22	20	17	19	18	19	16	12	n.d.
France	47	49	38	36	32	40	42	34	27	35
Germany	330	339	325	323	314	292	277	223	181	219
Italy	62	53	52	48	44	38	35	26	20	22
Netherlands	34	34	38	48	44	40	37	29	18	26
Norway	3	3	3	3	3	3	3	3	3	3
Poland	213	214	202	201	202	203	199	178	165	180
Portugal	12	10	11	13	11	13	11	5	2	1
Romania	30	24	23	24	22	22	21	20	14	17
Spain	61	46	51	57	44	53	47	21	12	12
Sweden	8	8	8	7	7	8	8	7	6	5
Turkey	142	125	138	141	156	165	169	171	166	179
United Kingdom	152	146	118	94	49	40	34	25	23	24
EU	1,042	1,016	975	974	931	918	877	717	587	672
Other	208	202	185	184	178	180	171	149	134	n.d.
Former Soviet Union	733	702	639	631	621	616	670	659	614	626
Azerbaijan	0	0	0	0	0	0	0	0	0	n.d.
Kazakhstan	148	147	141	107	116	127	131	127	122	128
Russia	420	390	354	404	384	379	418	418	385	390
Ukraine	152	149	127	104	104	92	102	93	82	82
Uzbekistan	6	8	8	6	7	7	8	8	12	13
Other	7	8	9	9	10	10	11	12	12	12
Middle East	46	43	43	41	37	37	35	36	34	37
Iran	5	6	6	7	6	7	7	7	7	n.d.
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	5	7	8	7	7	8	8	7	8	n.d.
Other	36	30	29	27	24	21	20	22	19	37
Africa	385	393	415	388	393	402	414	426	395	426
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	0	0	6	12	10	4	4
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	358	363	378	349	355	356	357	366	342	370
Other	26	28	36	38	38	40	44	50	48	52
Asia-Pacific	10,112	10,453	10,577	10,457	10,404	10,677	10,968	11,086	11,017	11,527
Australia	193	180	171	176	184	182	175	170	162	155
China	7,293	7,605	7,535	7,394	7,319	7,398	7,519	7,560	7,615	8,013
India	1,256	1,306	1,446	1,405	1,389	1,481	1,585	1,572	1,491	1,568
Indonesia	151	115	145	160	174	194	223	276	263	266
Japan	411	439	436	431	425	426	414	408	397	409
Malaysia	63	60	61	69	75	82	88	92	97	95
New Zealand	6	5	4	4	3	3	4	5	5	5
South Korea	329	319	332	339	340	347	347	334	283	284
Taiwan	149	151	153	148	150	154	154	147	146	150
Thailand	65	69	64	68	62	66	64	66	70	74
Other	197	204	231	264	284	342	396	456	489	509
OECD	4,052	4,073	4,002	3,758	3,565	3,528	3,386	3,009	2,586	2,813
Non-OECD	10,507	10,826	10,909	10,754	10,685	10,952	11,325	11,465	11,379	11,949
World	14,559	14,899	14,911	14,511	14,251	14,481	14,711	14,474	13,965	14,761

CO₂ Emissions Intensity to GDP (kCO ₂ /thousand \$15ppp)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	304	304	299	283	274	265	263	252	234	234
Canada	372	369	360	357	352	347	346	339	320	317
Mexico	226	218	206	202	200	195	182	180	167	165
United States	298	299	294	277	267	258	256	245	226	225
South and Central America	182	181	180	178	176	172	165	164	156	155
Argentina	204	205	206	208	211	200	202	196	199	198
Brazil	143	150	157	155	149	149	138	137	135	148
Chile	209	211	192	200	208	207	199	209	207	196
Colombia	114	122	119	118	122	108	111	118	114	100
Peru	142	136	142	141	143	133	129	131	138	n.d.
Trinidad & Tobago	966	957	964	944	910	920	917	932	844	n.d.
Venezuela	288	279	286	276	305	344	389	479	395	n.d.
Europe	187	181	169	167	164	162	154	145	140	141
Belgium	197	199	182	187	182	177	175	170	166	170
Czech Republic	321	309	295	282	279	269	258	238	230	233
Finland	217	223	206	191	200	183	185	169	153	n.d.
France	130	129	116	117	116	116	111	106	102	106
Germany	206	210	196	193	192	182	173	160	154	159
Italy	166	155	148	150	147	143	139	135	132	138
Netherlands	213	211	200	206	203	194	184	174	162	161
Norway	132	132	131	131	126	123	121	117	112	111
Poland	330	323	299	291	292	290	274	248	241	252
Portugal	155	152	147	158	153	161	145	128	122	115
Romania	205	173	166	162	151	148	143	134	131	132
Spain	172	157	154	158	149	153	147	134	125	127
Sweden	95	91	85	81	80	77	71	68	64	63
Turkey	184	163	167	164	168	174	168	163	159	168
United Kingdom	180	172	152	144	133	126	122	115	110	112
EU	190	185	174	173	170	167	159	148	143	144
Former Soviet Union	485	466	441	437	435	434	440	371	370	385
Azerbaijan	213	206	209	207	217	216	216	231	232	n.d.
Kazakhstan	642	650	504	432	465	475	459	435	439	451
Russia	470	447	439	451	444	449	459	456	449	479
Ukraine	552	530	478	440	431	387	397	148	142	134
Uzbekistan	636	587	513	450	452	452	443	413	457	460
Middle East	368	370	373	372	357	359	353	361	369	361
Iran	532	557	557	559	495	498	537	571	577	n.d.
Iraq	314	315	297	275	254	291	313	326	330	n.d.
Kuwait	478	477	464	485	480	503	500	502	554	610
Qatar	366	352	362	360	356	365	357	374	409	402
Saudi Arabia	346	342	355	357	349	344	321	323	338	324
United Arab Emirates	331	328	312	316	317	308	269	283	280	n.d.
Africa	215	214	215	207	205	203	202	192	186	190
Algeria	268	267	277	284	271	270	284	290	292	285
Angola	90	100	104	106	98	85	86	98	89	n.d.
Egypt	203	198	195	193	190	195	190	182	172	178
Libya	364	457	593	593	634	507	471	422	1,098	n.d.
Nigeria	86	94	97	89	94	91	90	93	95	99
South Africa	600	599	604	564	564	565	566	396	391	410
Asia-Pacific	400	391	375	356	339	330	321	312	313	307
Australia	379	366	348	346	345	341	329	321	311	287
China	609	592	551	512	479	457	439	420	416	410
India	312	301	305	284	266	264	260	250	252	235
Indonesia	205	178	184	177	165	168	179	185	164	162
Japan	241	238	229	219	215	209	201	194	196	193
Malaysia	315	328	320	304	290	293	283	281	288	287
New Zealand	200	195	192	184	175	177	169	175	165	150
South Korea	357	345	332	330	330	324	316	302	279	277
Taiwan	535	528	518	515	516	515	495	461	435	416
Thailand	246	250	243	243	231	222	212	215	223	217
OECD	247	243	234	226	221	215	210	201	191	190
Non-OECD	373	366	354	341	327	321	315	303	310	310
World	311	306	297	286	277	272	266	257	253	252

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

CO₂ Emissions per capita (tCO ₂ per capita)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	13.6	13.7	13.7	13.3	13.0	12.8	12.9	12.6	11.1	11.7
Canada	17.8	17.8	17.6	17.4	17.1	17.2	17.3	17.1	15.1	15.4
Mexico	4.3	4.1	4.0	4.0	4.1	4.0	3.7	3.6	3.1	3.1
United States	16.7	16.9	16.9	16.4	15.9	15.6	15.9	15.6	13.8	14.6
South and Central America	2.7	2.8	2.9	2.8	2.7	2.6	2.5	2.5	2.2	2.3
Argentina	4.4	4.5	4.3	4.4	4.3	4.2	4.1	3.9	3.5	3.6
Brazil	2.5	2.6	2.8	2.6	2.4	2.4	2.3	2.2	2.1	2.4
Chile	4.7	4.8	4.4	4.6	4.9	4.9	4.9	5.3	4.9	5.1
Colombia	1.5	1.7	1.7	1.7	1.8	1.6	1.7	1.8	1.6	1.5
Peru	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.6	n.d.
Trinidad & Tobago	32.4	31.8	31.1	31.0	28.2	27.9	27.5	27.8	23.7	n.d.
Venezuela	6.6	6.6	6.5	6.1	5.7	5.3	5.0	4.1	2.5	n.d.
Other	1.7	1.7	1.7	1.8	1.8	1.7	1.8	1.8	1.6	n.d.
Europe	7.1	6.9	6.6	6.7	6.7	6.7	6.6	6.3	5.7	6.1
Belgium	10.0	10.1	9.4	9.8	9.6	9.5	9.5	9.4	8.6	9.1
Czech Republic	11.0	10.5	10.3	10.3	10.4	10.6	10.4	9.9	9.0	9.4
Finland	10.0	10.1	9.3	8.7	9.3	8.8	9.0	8.3	7.3	n.d.
France	5.7	5.6	5.1	5.2	5.2	5.3	5.1	4.9	4.4	4.8
Germany	10.1	10.3	9.8	9.7	9.7	9.5	9.1	8.5	7.8	8.3
Italy	6.7	6.1	5.7	5.8	5.8	5.7	5.7	5.5	5.0	5.5
Netherlands	11.0	10.9	10.4	10.8	10.8	10.6	10.3	9.8	8.8	8.8
Norway	9.5	9.5	9.4	9.5	9.2	9.1	9.0	8.7	8.2	8.4
Poland	8.7	8.7	8.3	8.5	8.7	9.1	9.1	8.6	8.2	8.8
Portugal	4.9	4.9	4.8	5.2	5.1	5.6	5.2	4.8	4.1	4.1
Romania	4.4	3.9	3.9	3.9	3.8	4.0	4.1	4.0	3.8	4.0
Spain	6.2	5.6	5.6	6.0	5.8	6.1	6.0	5.6	4.6	4.9
Sweden	5.1	4.8	4.6	4.6	4.5	4.5	4.2	4.0	3.6	3.6
Turkey	4.7	4.5	4.7	4.8	5.0	5.5	5.3	5.1	5.0	5.5
United Kingdom	7.7	7.4	6.7	6.5	6.1	5.8	5.7	5.5	4.7	5.0
EU	7.5	7.3	7.0	7.1	7.1	7.2	7.0	6.6	6.0	6.4
Other	6.5	6.3	6.0	6.1	6.1	6.3	6.2	6	5	n.d.
Former Soviet Union	8.8	8.5	8.2	8.0	8.0	8.2	8.3	8.3	8.3	8.3
Azerbaijan	3.2	3.2	3.3	3.2	3.3	3.3	n.d.	n.d.	n.d.	n.d.
Kazakhstan	14.0	14.7	13.6	13.0	13.1	13.2	13.5	13.5	13.5	13.5
Russia	11.6	11.2	11.1	11.1	11.0	11.7	12.1	12.1	12.1	12.1
Ukraine	6.3	6.0	5.1	4.2	4.5	3.9	3.9	3.9	3.9	3.9
Uzbekistan	3.7	3.3	3.3	2.9	2.7	2.7	2.8	2.8	2.8	2.8
Other	159	165	170	169	170	172	180	182	181	n.d.
Middle East	8.5	8.5	8.6	8.6	8.5	8.5	8.2	8.2	8.0	7.9
Iran	8.2	8.3	8.5	8.3	8.2	8.5	8.5	8.4	8.2	n.d.
Iraq	4.0	4.2	3.8	3.6	3.8	4.1	4.2	4.4	3.9	n.d.
Kuwait	25.9	25.0	23.5	23.8	23.5	22.9	22.4	22.1	22.1	24.2
Qatar	39.0	37.5	38.5	38.3	37.5	37.0	35.9	36.8	38.5	37.7
Saudi Arabia	17.4	17.1	17.8	18.2	17.7	16.9	15.9	15.7	15.5	15.1
United Arab Emirates	19.8	20.5	20.4	21.7	22.2	21.5	19.2	20.2	18.5	n.d.
Other	4.1	3.8	3.8	3.6	3.6	3.6	3.5	3.5	3.3	n.d.
Africa	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Algeria	3.5	3.5	3.7	3.8	3.7	3.6	3.8	3.8	3.6	3.6
Angola	1.6	1.6	1.6	1.6	1.4	1.2	1.1	1.2	1.0	n.d.
Egypt	2.7	2.6	2.5	2.5	2.5	2.6	2.7	2.7	2.6	2.7
Libya	9.0	9.3	9.9	9.0	8.9	9.7	9.8	n.d.	n.d.	n.d.
Nigeria	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
South Africa	8.4	8.5	8.6	8.0	7.9	7.9	7.9	7.9	7.2	7.7
Other	0.39	0.38	0.39	0.40	0.40	0.41	0.41	0.42	0.39	n.d.
Asia-Pacific	4.3	4.5	4.5	4.4	4.4	4.5	4.5	4.5	4.5	4.6
Australia	18.1	17.7	17.0	17.0	17.2	17.2	16.9	16.7	16.0	15.2
China	7.8	8.2	8.2	8.0	8.0	8.1	8.1	8.2	8.3	8.8
India	1.6	1.6	1.7	1.7	1.7	1.8	1.9	1.9	1.7	1.8
Indonesia	2.1	1.9	2.0	2.0	2.0	2.1	2.3	2.5	2.1	2.2
Japan	10.2	10.3	10.0	9.7	9.6	9.5	9.2	9.0	8.7	8.8
Malaysia	7.5	8.0	8.2	8.1	7.9	8.3	8.3	8.5	8.1	8.2
New Zealand	8.0	7.9	8.0	7.8	7.4	7.6	7.3	7.5	7.0	6.7
South Korea	13.6	13.5	13.3	13.5	13.8	14.0	14.0	13.6	12.4	12.8
Taiwan	11.6	11.7	11.9	11.8	12.0	12.3	12.2	11.7	11.4	11.6
Thailand	3.9	4.1	4.0	4.1	4.1	4.0	4.0	4.1	4.0	3.9
Other	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.3
OECD	10.4	10.4	10.1	10.0	9.9	9.8	9.8	9.5	8.6	9.0
Non-OECD	3.8	3.8	3.9	3.8	3.8	3.8	3.8	3.8	3.7	3.9
World	4.9	5.0	5.0	4.9	4.8	4.8	4.8	4.8	4.5	4.7

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



Primary Energy
Intensity to GDP

Primary Energy Intensity to GDP (ktep/\$15ppp)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North America	131	131	130	125	122	119	119	116	110	109
Canada	179	179	178	176	182	183	180	176	171	167
Mexico	93	92	87	83	81	77	78	78	76	73
United States	127	127	125	120	117	114	114	111	105	103
South and Central America	92	93	91	90	90	88	86	87	87	86
Argentina	94	94	97	95	97	94	94	95	99	97
Brazil	94	95	97	99	99	99	96	96	98	102
Chile	99	98	87	87	91	92	90	94	92	87
Colombia	54	68	66	64	65	62	58	64	58	55
Peru	69	62	64	64	64	64	64	65	68	n.d.
Trinidad & Tobago	529	514	531	503	470	485	490	497	455	n.d.
Venezuela	122	133	120	125	138	155	140	176	161	n.d.
Europe	86	85	80	79	78	77	75	72	71	71
Belgium	108	112	104	101	105	103	98	98	96	103
Czech Republic	130	130	124	117	113	112	109	104	104	106
Finland	146	145	148	140	142	137	137	133	130	n.d.
France	97	97	93	93	90	88	86	83	81	83
Germany	84	86	80	80	78	76	74	71	70	70
Italy	71	70	66	68	67	67	65	64	65	66
Netherlands	93	91	85	85	85	84	80	77	77	77
Norway	106	110	94	94	90	92	92	85	85	88
Poland	105	104	97	94	95	95	94	87	86	89
Portugal	71	72	70	72	70	70	66	64	64	63
Romania	90	79	76	74	71	69	67	63	64	65
Spain	80	76	73	73	71	72	70	67	68	67
Sweden	112	109	104	92	97	97	97	93	87	88
Turkey	70	63	63	64	66	66	63	63	62	65
United Kingdom	75	72	66	65	63	61	59	57	56	54
EU	90	89	84	83	82	81	79	76	75	74
Former Soviet Union	206	198	191	187	192	191	198	166	164	171
Azerbaijan	102	97	98	97	99	100	99	106	107	n.d.
Kazakhstan	203	211	162	134	156	152	166	157	149	156
Russia	206	197	196	196	202	202	210	206	203	216
Ukraine	237	225	219	213	205	196	198	76	76	77
Uzbekistan	240	221	192	171	170	171	198	174	164	164
Middle East	145	145	148	150	146	148	148	150	152	146
Iran	215	220	226	228	208	218	236	252	255	n.d.
Iraq	121	117	111	102	96	111	132	129	132	n.d.
Kuwait	164	166	149	183	193	193	190	200	192	202
Qatar	192	198	189	181	167	186	181	189	182	188
Saudi Arabia	136	131	140	140	137	141	134	134	140	139
United Arab Emirates	124	124	131	135	144	112	101	103	104	n.d.
Africa	138	135	137	132	133	131	129	124	124	125
Algeria	110	111	116	117	113	115	121	124	123	121
Angola	71	68	86	75	68	66	77	77	76	n.d.
Egypt	83	79	80	76	80	80	79	75	71	74
Libya	122	123	226	234	238	181	165	191	445	n.d.
Nigeria	166	159	153	147	155	153	150	155	165	167
South Africa	182	176	184	170	177	176	173	124	121	126
Asia-Pacific	136	132	128	122	117	114	111	112	113	114
Australia	123	121	118	115	112	111	108	106	104	98
China	196	188	180	169	157	152	150	148	148	144
India	126	122	121	115	108	107	105	102	104	97
Indonesia	90	82	81	77	75	76	75	75	68	68
Japan	91	89	86	84	82	82	80	78	75	76
Malaysia	120	130	125	113	113	111	108	102	103	99
New Zealand	125	123	125	121	115	111	105	107	101	95
South Korea	153	149	147	146	147	144	140	136	133	135
Taiwan	219	219	214	210	208	202	199	188	178	174
Thailand	124	130	128	125	123	118	111	111	109	109
OECD	107	106	102	100	98	96	95	93	90	89
Non-OECD	148	144	142	137	132	130	129	125	126	125
World	131	129	126	122	120	118	117	114	112	111

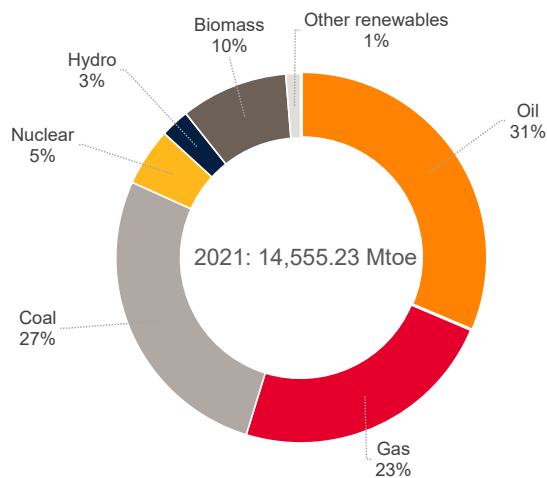


Regional
and country
data

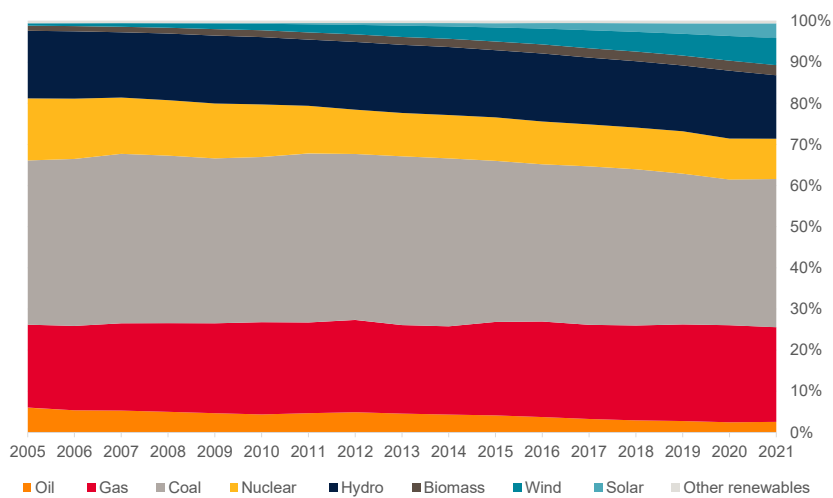
World (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	13,169.3	13,371.2	13,543.5	13,572.4	13,691.8	13,987.9	14,337.2	14,517.1	13,866.7	14,555.2	100.0
Oil	4,175.5	4,200.5	4,271.4	4,338.7	4,406.9	4,487.2	4,492.4	4,510.6	4,057.4	4,264.5	29.3
Gas	2,832.8	2,893.4	2,893.9	2,923.3	3,021.5	3,107.1	3,275.2	3,358.9	3,303.2	3,454.5	23.7
Coal	3,855.4	3,902.9	3,951.7	3,844.3	3,734.5	3,793.2	3,877.6	3,878.8	3,711.6	3,926.8	27.0
Nuclear	641.2	646.1	660.7	669.8	679.8	687.0	706.0	727.0	698.3	727.4	5.0
Hydro	315.3	327.2	334.3	334.8	346.7	350.4	361.3	362.9	372.7	367.2	2.5
Biomass	1,201.8	1,228.6	1,240.5	1,249.5	1,267.3	1,296.3	1,324.7	1,350.7	1,360.8	1,414.6	9.7
Other renewables	54.8	69.1	80.0	95.0	112.9	137.2	160.1	184.4	212.2	248.7	1.7
Electricity balance of trade*	92.5	103.4	111.2	117.0	122.2	129.3	139.9	143.8	150.5	151.5	1.0
Total final consumption, by source	9,147.7	9,327.7	9,449.2	9,537.0	9,642.4	9,831.4	10,019.9	10,120.8	9,662.3	10,108.2	100.0
Oil	3,609.8	3,672.5	3,728.7	3,825.7	3,882.1	3,975.9	4,017.4	4,034.5	3,649.4	3,847.1	38.1
Gas	1,309.7	1,362.0	1,365.0	1,366.5	1,402.8	1,452.0	1,528.4	1,570.5	1,556.7	1,647.3	16.3
Coal	1,324.7	1,327.6	1,342.0	1,312.3	1,253.7	1,216.1	1,175.9	1,168.3	1,110.7	1,113.9	11.0
Electricity	1,621.5	1,672.4	1,718.0	1,735.0	1,789.2	1,848.6	1,929.3	1,961.6	1,947.8	2,057.3	20.4
Heat	318.9	314.2	313.2	313.6	329.9	339.4	358.3	361.7	365.8	377.1	3.7
Biomass	963.1	979.0	982.4	984.0	984.7	999.4	1,010.7	1,024.2	1,031.8	1,065.6	10.5
Electricity generation, by source	1,958.9	2,018.7	2,067.7	2,092.8	2,152.4	2,218.7	2,296.3	2,325.4	2,317.7	2,445.2	100.0
Oil	96.1	91.9	89.4	86.5	79.9	72.5	66.9	64.3	57.0	62.1	2.5
Gas	439.6	434.8	443.4	475.6	499.9	508.0	529.4	545.9	546.9	563.1	23.0
Coal	790.3	828.1	844.8	819.6	822.9	854.3	872.5	852.3	821.3	881.5	36.0
Nuclear	211.6	213.2	218.0	221.0	226.7	233.0	239.0	239.0	240.0	240.0	9.8
Hydro	322.4	334.4	341.7	342.4	356.0	360.3	370.8	372.2	382.4	376.5	15.4
Biomass	35.7	38.6	41.6	43.7	47.5	50.6	53.5	56.3	57.1	60.6	2.5
Wind	45.2	55.7	62.1	71.7	82.8	97.6	109.8	122.7	138.5	160.4	6.6
Solar	8.9	12.5	16.6	21.9	28.5	38.0	48.5	59.5	71.4	87.6	3.6
Other renewables	9.2	9.6	10.1	10.4	10.5	10.8	11.9	12.2	12.7	13.3	0.5
Total final consumption, by sector	9,147.7	9,327.7	9,449.2	9,537.0	9,642.4	9,831.4	10,019.9	10,120.8	9,662.3	10,108.2	100.0
Industry	2,974.5	3,000.0	3,042.4	3,015.4	2,999.5	3,026.8	3,067.8	3,110.0	3,057.2	3,167.3	31.3
Transport	2,448.5	2,517.6	2,560.8	2,641.5	2,696.6	2,767.3	2,821.1	2,838.0	2,473.2	2,658.3	26.3
Residential/Commercial	2,678.4	2,759.9	2,755.0	2,778.2	2,824.5	2,881.7	2,962.7	2,983.4	2,972.0	3,095.5	30.6
Oil final consumption, by sector	3,609.8	3,672.5	3,728.7	3,825.7	3,882.1	3,975.9	4,017.4	4,034.5	3,649.4	3,847.1	100.0
Industry	279.6	277.8	273.0	284.8	281.2	278.1	273.5	278.1	280.8	284.6	7.4
Transport	2,322.1	2,382.9	2,417.7	2,492.5	2,542.0	2,605.1	2,646.6	2,651.3	2,292.6	2,467.0	64.1
Residential/Commercial	278.7	286.2	279.2	287.3	290.7	297.1	293.5	287.6	284.6	292.1	7.6
Natural gas final consumption, by sector	1,309.7	1,362.0	1,365.0	1,366.5	1,402.8	1,452.0	1,528.4	1,570.5	1,556.7	1,647.3	100.0
Industry	531.4	537.9	545.9	543.3	553.7	570.2	594.5	616.1	614.2	647.2	39.3
Transport	33.6	35.7	39.6	42.0	43.3	45.5	50.1	51.1	54.4	59.8	3.6
Residential/Commercial	576.6	619.5	610.0	608.4	623.3	640.1	681.4	693.1	682.8	722.6	43.9
Refined products consumption	3,599.4	3,660.2	3,716.7	3,812.6	3,869.0	3,965.0	4,006.3	4,020.3	3,637.0	3,834.6	100.0
Gasoline	984.2	1,015.5	1,023.4	1,057.5	1,083.4	1,095.9	1,108.1	1,116.5	994.3	1,087.1	28.3
Diesel	1,214.7	1,232.5	1,256.0	1,276.8	1,271.6	1,296.9	1,306.1	1,298.6	1,207.0	1,258.6	32.8
Heating Oil	265.4	255.5	250.5	246.9	246.1	251.4	244.2	233.0	211.6	231.2	6.0
Aviation Jet	261.0	267.6	277.4	292.8	306.8	326.1	341.1	346.0	205.0	228.0	5.9
LPG	237.8	253.8	259.3	269.5	278.3	286.2	300.8	306.2	290.3	297.9	7.8
Imports	4,308.8	4,311.0	4,276.3	4,463.2	4,634.0	4,814.9	4,909.7	4,890.3	4,511.6	4,684.2	100.0
Oil	3,449.8	3,437.3	3,429.1	3,585.0	3,719.1	3,824.1	3,852.4	3,808.7	3,456.0	3,562.3	76.0
Gas	859.0	873.7	847.2	878.3	914.9	990.8	1,057.3	1,081.5	1,055.6	1,121.9	24.0
Gasoline	201.1	205.9	207.9	223.5	240.2	240.9	248.9	260.0	234.7	253.6	5.4
Diesel	326.2	345.3	354.2	369.8	389.2	393.2	390.3	386.8	361.2	390.7	8.3
Heating Oil	250.6	251.4	239.9	244.8	239.2	225.2	218.7	204.1	188.7	218.9	4.7
Aviation Jet	67.1	72.1	71.0	77.7	85.9	91.2	92.8	93.2	59.7	57.0	1.2
LPG	86.4	92.0	100.1	109.4	124.1	129.5	136.0	143.0	141.8	145.5	3.1
Exports	4,359.3	4,375.2	4,341.0	4,551.6	4,747.9	4,876.3	5,027.0	4,979.7	4,680.7	4,740.0	100.0
Oil	3,489.8	3,486.0	3,470.1	3,649.8	3,810.1	3,857.5	3,941.7	3,860.7	3,580.2	3,574.0	75.4
Gas	869.5	889.3	870.9	901.8	937.8	1,018.8	1,085.3	1,119.0	1,100.4	1,165.9	24.6
Gasoline	195.9	190.4	198.0	224.8	239.4	241.7	251.4	246.2	218.6	245.3	5.2
Diesel	349.0	358.5	361.3	386.6	411.8	429.9	430.3	422.9	399.7	414.4	8.7
Heating Oil	285.6	301.3	292.6	303.8	284.4	270.4	269.2	232.5	220.9	239.3	5.0
Aviation Jet	80.2	88.0	84.6	89.4	92.8	98.5	103.4	102.2	71.0	66.5	1.4
LPG	85.8	85.5	104.4	109.9	121.7	126.0	131.0	132.9	129.8	130.7	2.8
CO₂ Emissions (Million tons CO₂)	31,193.8	31,758.2	31,810.3	31,698.1	31,686.8	32,214.3	32,727.5	32,738.5	31,265.8	32,968.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	310.5	306.2	296.5	285.9	276.9	271.5	266.3	256.7	253.3	252.0	-
Final energy intensity (toe/million \$15ppp)	83.1	82.2	80.2	78.3	76.7	75.3	74.1	72.0	70.9	70.2	-
Total energy intensity (toe/million \$15ppp)	131.1	128.9	126.3	122.4	119.6	117.9	116.7	113.8	112.3	111.3	-

*Heat is included

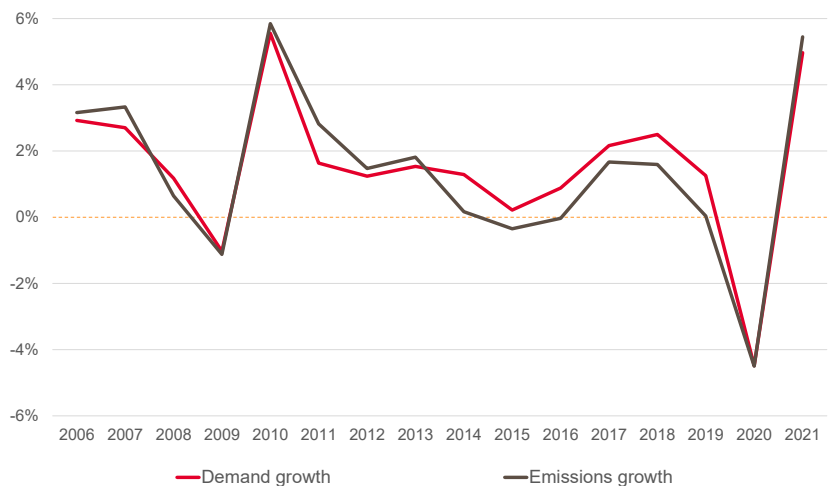
Primary energy demand mix



Electricity generation by source



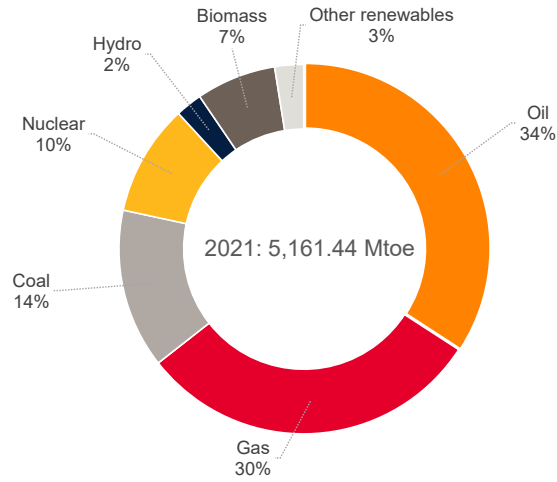
Primary energy demand and CO₂ emissions growth



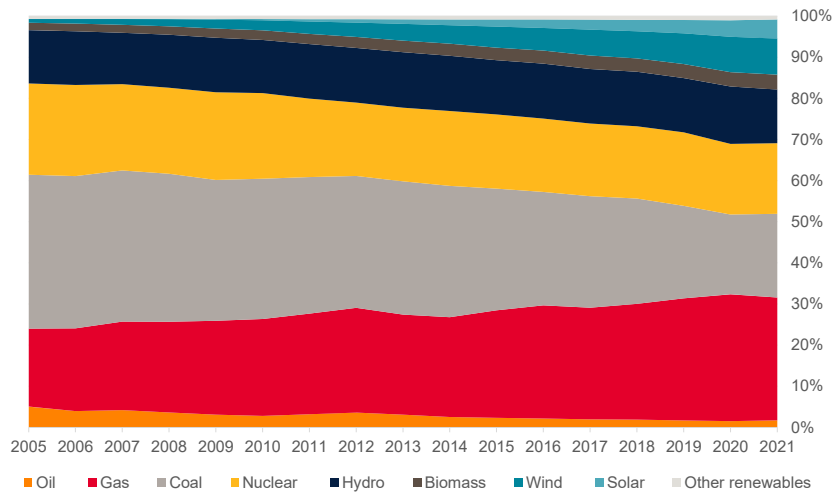
OECD (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	5,302.9	5,337.7	5,290.5	5,288.1	5,301.2	5,338.1	5,392.8	5,345.9	4,952.7	5,161.4	100.0
Oil	1,923.1	1,897.3	1,877.9	1,904.0	1,899.1	1,917.9	1,907.4	1,882.9	1,654.8	1,743.2	33.8
Gas	1,345.7	1,368.8	1,348.4	1,373.2	1,424.1	1,441.4	1,500.7	1,549.7	1,519.4	1,545.1	29.9
Coal	1,025.2	1,030.4	1,011.9	948.3	902.0	884.8	857.6	768.6	651.9	712.5	13.8
Nuclear	508.6	511.4	516.1	513.6	512.3	509.6	515.8	517.4	485.0	497.1	9.6
Hydro	119.7	121.8	120.7	118.9	121.2	120.3	122.7	120.8	124.3	119.0	2.3
Biomass	298.6	313.9	313.0	316.1	320.0	330.4	341.6	347.6	341.6	357.5	6.9
Other renewables	41.5	49.8	56.6	65.9	73.1	84.8	92.1	103.8	119.3	128.9	2.5
Electricity balance of trade*	40.5	44.3	46.0	48.0	49.5	48.9	54.9	55.1	56.4	58.1	1.1
Total final consumption, by source	3,636.3	3,692.3	3,659.4	3,681.3	3,716.0	3,757.3	3,800.6	3,788.9	3,518.3	3,675.5	100.0
Oil	1,692.1	1,697.5	1,692.2	1,721.2	1,736.9	1,753.5	1,756.1	1,750.4	1,556.0	1,640.7	44.6
Gas	688.1	727.0	712.6	703.6	715.3	731.8	751.9	760.6	731.1	760.5	20.7
Coal	176.1	173.6	171.0	167.5	161.1	162.1	156.9	148.8	134.2	148.8	4.0
Electricity	805.5	808.4	805.4	808.4	818.4	819.9	834.0	824.1	799.1	818.2	22.3
Heat	68.7	68.6	65.3	66.2	69.4	69.3	70.8	70.3	69.0	69.5	1.9
Biomass	205.8	217.2	212.9	214.2	214.9	220.8	230.8	234.7	229.1	237.9	6.5
Electricity generation, by source	940.3	941.0	936.6	939.8	947.7	950.9	968.0	954.7	932.2	955.1	100.0
Oil	33.6	28.9	23.4	21.9	20.3	18.3	18.3	16.1	14.1	16.2	1.7
Gas	239.7	229.3	227.4	245.6	260.7	258.2	272.3	283.3	287.6	285.4	29.9
Coal	301.4	304.7	299.3	278.1	261.4	257.8	247.9	214.8	180.9	194.4	20.4
Nuclear	167.8	168.8	170.3	169.5	169.1	168.2	170.2	170.8	160.0	164.0	17.2
Hydro	125.1	127.0	125.9	124.0	126.7	126.1	128.3	126.1	129.9	124.4	13.0
Biomass	25.0	26.2	27.5	28.7	30.1	31.0	31.5	32.3	32.4	34.7	3.6
Wind	32.8	38.6	42.1	48.1	52.2	60.0	64.0	71.4	80.3	83.6	8.8
Solar	8.0	10.4	13.3	16.4	19.5	23.4	26.7	30.9	37.6	44.5	4.7
Other renewables	6.9	7.2	7.4	7.6	7.7	7.9	8.8	9.0	9.3	7.7	0.8
Total final consumption, by sector	3,636.3	3,692.3	3,659.4	3,681.3	3,716.0	3,757.3	3,800.6	3,788.9	3,518.3	3,675.5	100.0
Industry	868.7	870.7	865.1	861.7	865.8	875.5	884.0	873.4	835.7	871.1	23.7
Transport	1,152.6	1,171.4	1,174.7	1,205.8	1,224.9	1,237.8	1,251.0	1,251.0	1,087.7	1,160.4	31.6
Residential/Commercial	1,175.9	1,218.7	1,177.9	1,177.0	1,182.6	1,186.3	1,213.4	1,207.5	1,170.3	1,202.4	32.7
Oil final consumption, by sector	1,692.1	1,697.5	1,692.2	1,721.2	1,736.9	1,753.5	1,756.1	1,750.4	1,556.0	1,640.7	100.0
Industry	89.6	85.4	80.4	82.3	81.1	81.0	83.6	78.0	77.1	79.4	4.8
Transport	1,091.8	1,108.0	1,109.8	1,140.2	1,156.2	1,166.3	1,178.3	1,176.7	1,018.7	1,087.9	66.3
Residential/Commercial	129.7	131.7	120.4	122.4	121.9	120.1	113.8	111.0	108.1	108.1	6.6
Natural gas final consumption, by sector	688.1	727.0	712.6	703.6	715.3	731.8	751.9	760.6	731.1	760.5	100.0
Industry	261.7	264.9	266.3	262.8	271.3	274.5	276.2	278.6	269.9	281.1	37.0
Transport	3.4	3.6	3.9	4.1	4.2	4.3	4.4	4.6	4.6	4.9	0.6
Residential/Commercial	383.7	418.6	401.7	395.6	394.8	402.0	420.9	426.4	405.4	421.1	55.4
Refined products consumption	1,686.9	1,692.0	1,686.7	1,714.4	1,731.5	1,746.7	1,748.5	1,740.4	1,547.5	1,632.1	100.0
Gasoline	590.9	593.1	591.5	602.7	610.9	607.6	610.5	608.8	527.3	567.0	34.7
Diesel	586.0	590.0	593.5	600.2	603.8	614.1	617.3	612.0	567.1	586.2	35.9
Heating Oil	27.7	21.4	18.8	20.4	18.4	17.6	16.3	14.7	12.3	13.2	0.8
Aviation Jet	68.9	71.2	73.8	77.0	79.7	83.3	85.0	86.1	51.2	62.3	3.8
LPG	103.1	111.3	107.9	108.8	107.8	105.1	110.9	112.2	95.9	97.9	6.0
Imports	2,706.0	2,638.4	2,558.2	2,660.5	2,737.6	2,812.7	2,840.8	2,782.3	2,479.2	2,589.8	100.0
Oil	2,057.8	1,988.6	1,938.2	2,026.3	2,075.4	2,103.4	2,085.7	2,021.5	1,752.7	1,828.7	70.6
Gas	648.2	649.8	620.0	634.2	662.2	709.3	755.1	760.8	726.5	761.1	29.4
Gasoline	90.9	84.5	81.7	92.1	99.3	97.0	99.7	105.3	85.5	93.6	3.6
Diesel	160.6	170.5	169.0	182.6	195.3	196.7	195.6	194.9	183.5	188.2	7.3
Heating Oil	93.9	92.6	88.4	88.0	85.3	67.7	68.9	58.2	60.9	72.2	2.8
Aviation Jet	40.5	44.2	44.4	49.7	54.5	57.6	59.8	61.3	39.5	39.6	1.5
LPG	50.3	51.3	52.3	54.4	59.2	59.7	61.9	64.5	62.6	63.9	2.5
Exports	1,231.6	1,256.0	1,288.8	1,382.4	1,451.0	1,574.8	1,693.2	1,743.1	1,710.9	1,764.1	100.0
Oil	914.7	938.0	979.9	1,052.6	1,098.5	1,166.8	1,234.3	1,261.2	1,207.1	1,226.6	69.5
Gas	316.8	318.0	308.9	329.9	352.5	408.0	458.9	481.9	503.8	537.5	30.5
Gasoline	118.2	113.4	117.4	134.0	140.2	147.5	151.6	150.6	127.9	147.9	8.4
Diesel	188.6	196.9	191.7	202.4	207.5	221.5	205.8	209.6	197.4	201.9	11.4
Heating Oil	104.1	106.0	108.3	113.8	110.1	93.1	93.0	73.5	70.5	79.7	4.5
Aviation Jet	38.3	40.6	37.8	40.5	42.7	45.6	49.4	49.5	30.6	29.3	1.7
LPG	10.2	10.3	26.9	35.4	42.3	47.1	50.6	58.5	65.3	68.1	3.9
CO₂ Emissions (Million tons CO₂)	12,264.1	12,289.1	12,093.7	11,992.2	11,937.0	11,929.0	11,909.8	11,593.6	10,518.9	11,055.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	246.5	243.2	234.2	226.2	220.9	215.2	209.7	200.8	190.7	190.2	-
Final energy intensity (toe/million \$15ppp)	65.7	66.0	63.7	62.5	61.9	60.8	60.3	59.0	57.4	56.9	-
Total energy intensity (toe/million \$15ppp)	106.6	105.6	102.4	99.7	98.1	96.3	95.0	92.6	89.8	88.8	-

*Heat is included

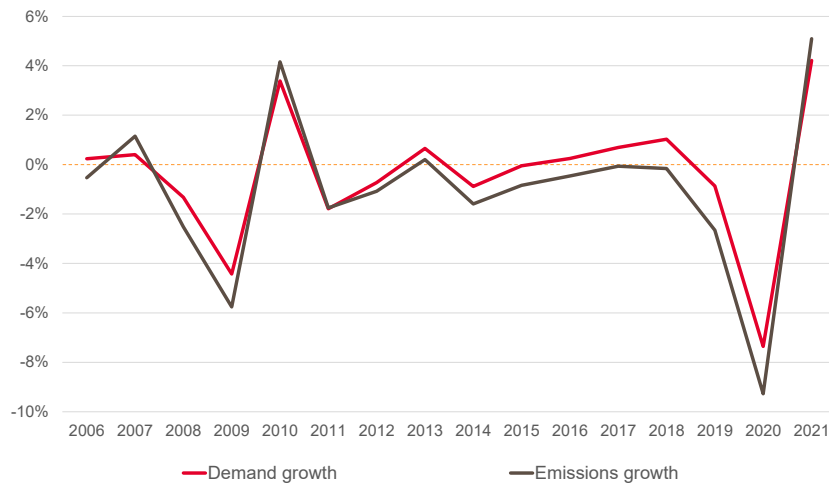
Primary energy demand mix



Electricity generation by source



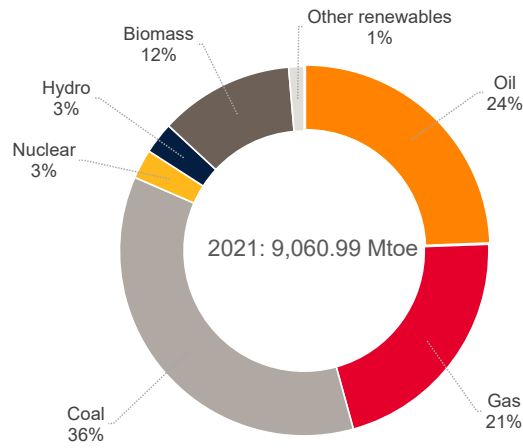
Primary energy demand and CO₂ emissions growth



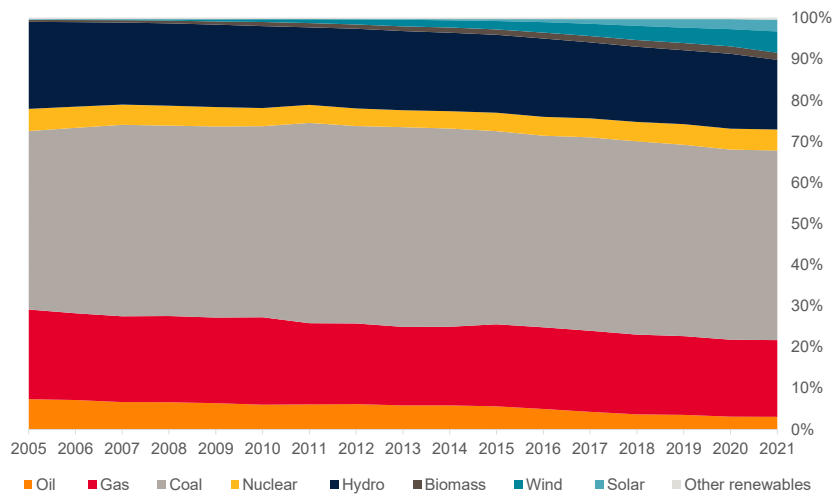
Non-OECD (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	7,517.9	7,683.2	7,890.1	7,903.4	7,997.0	8,237.6	8,523.5	8,752.7	8,608.7	9,061.0	100.0
Oil	1,903.9	1,952.8	2,030.6	2,053.8	2,114.2	2,157.1	2,164.2	2,209.2	2,097.3	2,188.5	24.2
Gas	1,487.1	1,524.7	1,545.5	1,550.1	1,597.4	1,665.8	1,774.5	1,809.2	1,783.8	1,909.4	21.1
Coal	2,830.2	2,872.5	2,939.8	2,896.0	2,832.5	2,908.4	3,020.0	3,110.2	3,059.6	3,214.3	35.5
Nuclear	132.6	134.7	144.7	156.1	167.5	177.4	190.2	209.6	213.3	230.3	2.5
Hydro	195.6	205.5	213.6	215.9	225.5	230.0	238.5	242.2	248.4	248.1	2.7
Biomass	903.2	914.7	927.5	933.3	947.3	965.9	983.1	1,003.1	1,019.2	1,057.1	11.7
Other renewables	13.3	19.2	23.3	29.1	39.8	52.5	68.0	80.6	92.8	119.9	1.3
Electricity balance of trade*	52.0	59.1	65.2	69.0	72.7	80.5	85.0	88.7	94.1	93.4	1.0
Total final consumption, by source	5,162.8	5,285.0	5,426.9	5,474.9	5,532.8	5,661.9	5,798.4	5,913.4	5,838.7	6,100.0	100.0
Oil	1,569.2	1,624.7	1,673.6	1,723.6	1,751.6	1,810.3	1,840.5	1,865.7	1,788.2	1,873.6	30.7
Gas	621.6	634.9	652.4	662.8	687.5	720.2	776.4	809.8	825.7	886.8	14.5
Coal	1,148.7	1,154.0	1,171.0	1,144.7	1,092.6	1,054.0	1,018.9	1,019.5	976.6	965.1	15.8
Electricity	815.9	864.0	912.6	926.5	970.8	1,028.8	1,095.2	1,137.5	1,148.8	1,239.1	20.3
Heat	250.1	245.6	247.8	247.4	260.5	270.1	287.5	291.4	296.9	307.6	5.0
Biomass	757.3	761.9	769.5	769.8	769.8	778.6	779.8	789.5	802.6	827.7	13.6
Electricity generation, by source	1,018.6	1,077.7	1,131.1	1,153.0	1,204.8	1,267.9	1,328.3	1,370.7	1,385.5	1,490.1	100.0
Oil	62.5	63.0	66.0	64.7	59.6	54.1	48.7	48.2	42.9	45.9	3.1
Gas	199.9	205.6	216.0	230.0	239.2	249.7	257.1	262.6	259.3	277.7	18.6
Coal	488.8	523.4	545.4	541.5	561.5	596.4	624.5	637.5	640.4	687.1	46.1
Nuclear	43.7	44.4	47.7	51.5	55.3	58.5	62.8	69.2	70.4	76.0	5.1
Hydro	197.4	207.4	215.8	218.3	229.3	234.1	242.6	246.2	252.5	252.1	16.9
Biomass	10.7	12.4	14.1	15.0	17.4	19.7	22.0	24.0	24.7	25.9	1.7
Wind	12.3	17.1	20.0	23.6	30.6	37.6	45.8	51.3	58.3	76.8	5.2
Solar	1.0	2.1	3.3	5.4	9.0	14.6	21.8	28.6	33.8	43.1	2.9
Other renewables	2.3	2.4	2.7	2.8	2.8	3.0	3.1	3.2	3.3	5.6	0.4
Total final consumption, by sector	5,162.8	5,285.0	5,426.9	5,474.9	5,532.8	5,661.9	5,798.4	5,913.4	5,838.7	6,100.0	100.0
Industry	2,105.8	2,129.3	2,177.3	2,153.7	2,133.7	2,151.3	2,183.8	2,236.6	2,221.5	2,296.2	37.6
Transport	947.4	995.8	1,023.2	1,054.8	1,078.2	1,117.4	1,149.2	1,168.5	1,080.1	1,165.1	19.1
Residential/Commercial	1,502.5	1,541.1	1,577.0	1,601.3	1,641.9	1,695.4	1,749.3	1,775.9	1,801.6	1,893.1	31.0
Oil final consumption, by sector	1,569.2	1,624.7	1,673.6	1,723.6	1,751.6	1,810.3	1,840.5	1,865.7	1,788.2	1,873.6	100.0
Industry	190.0	192.4	192.6	202.5	200.1	197.2	189.9	200.1	203.7	205.2	10.9
Transport	881.6	924.5	945.1	971.5	992.3	1,026.7	1,047.5	1,056.2	968.6	1,046.3	55.8
Residential/Commercial	149.1	154.4	158.8	164.9	168.8	177.0	179.8	176.6	176.5	184.0	9.8
Natural gas final consumption, by sector	621.6	634.9	652.4	662.8	687.5	720.2	776.4	809.8	825.7	886.8	100.0
Industry	269.7	273.0	279.6	280.5	282.4	295.7	318.3	337.5	344.3	366.2	41.3
Transport	30.2	32.0	35.7	37.9	39.1	41.2	45.8	49.5	49.8	54.9	6.2
Residential/Commercial	192.9	200.8	208.4	212.8	228.5	238.1	260.5	266.7	277.3	301.5	34.0
Refined products consumption	1,563.9	1,617.9	1,667.1	1,717.4	1,743.9	1,806.2	1,836.9	1,861.5	1,784.2	1,869.8	100.0
Gasoline	393.3	422.4	431.9	454.8	472.5	488.3	497.5	507.7	466.9	520.0	27.8
Diesel	607.4	620.7	629.8	633.5	627.0	641.2	646.1	639.2	597.8	627.7	33.6
Heating Oil	67.7	65.1	66.6	63.5	57.5	57.1	52.7	53.1	50.8	55.7	3.0
Aviation Jet	35.1	36.9	38.7	41.5	44.7	49.2	53.3	54.4	39.4	40.3	2.2
LPG	134.7	142.5	151.4	160.6	170.5	181.1	189.9	194.0	194.3	200.0	10.7
Imports	1,602.8	1,672.7	1,718.1	1,802.7	1,896.4	2,002.2	2,068.9	2,108.0	2,032.4	2,094.4	100.0
Oil	1,392.0	1,448.7	1,490.9	1,558.7	1,643.7	1,720.7	1,766.7	1,787.3	1,703.3	1,733.6	82.8
Gas	210.8	224.0	227.2	244.0	252.7	281.5	302.2	320.7	329.1	360.8	17.2
Gasoline	110.3	121.4	126.2	131.4	140.9	143.9	149.3	154.7	149.2	160.0	7.6
Diesel	165.6	174.8	185.2	187.2	194.0	196.6	194.7	192.0	177.7	202.5	9.7
Heating Oil	156.8	158.8	151.5	156.8	153.9	157.5	149.8	145.9	127.8	146.7	7.0
Aviation Jet	26.6	27.9	26.5	28.1	31.4	33.6	33.0	31.8	20.2	17.4	0.8
LPG	36.1	40.7	47.8	55.0	64.9	69.8	74.1	78.5	79.2	81.7	3.9
Exports	3,127.7	3,119.2	3,052.2	3,169.2	3,296.8	3,301.4	3,333.9	3,236.6	2,969.7	2,975.8	100.0
Oil	2,575.1	2,548.0	2,490.2	2,597.2	2,711.6	2,690.7	2,707.4	2,599.5	2,373.1	2,347.4	78.9
Gas	552.7	571.2	562.0	572.0	585.3	610.7	626.4	637.1	596.6	628.4	21.1
Gasoline	77.6	77.0	80.6	90.8	99.2	94.2	99.8	95.6	90.8	97.3	3.3
Diesel	160.4	161.6	169.6	184.2	204.2	208.5	224.4	213.3	202.2	212.5	7.1
Heating Oil	181.5	195.3	184.3	190.0	174.3	177.4	176.3	158.9	150.5	159.6	5.4
Aviation Jet	42.0	47.4	46.8	48.9	50.1	52.9	54.0	52.7	40.4	37.1	1.2
LPG	75.6	75.2	77.5	74.4	79.5	78.9	80.4	74.4	64.5	62.6	2.1
CO₂ Emissions (Million tons CO₂)	18,929.6	19,469.2	19,716.6	19,705.9	19,749.8	20,285.3	20,817.7	21,144.8	20,706.0	21,913.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	373.4	366.0	354.4	340.7	326.9	320.8	314.9	302.9	303.3	301.5	-
Final energy intensity (toe/million \$15ppp)	93.3	91.0	89.1	86.3	83.4	81.4	79.7	76.8	77.4	76.2	-
Total energy intensity (toe/million \$15ppp)	148.3	144.5	141.8	136.6	132.4	130.3	128.9	125.4	126.1	124.7	-

*Heat is included

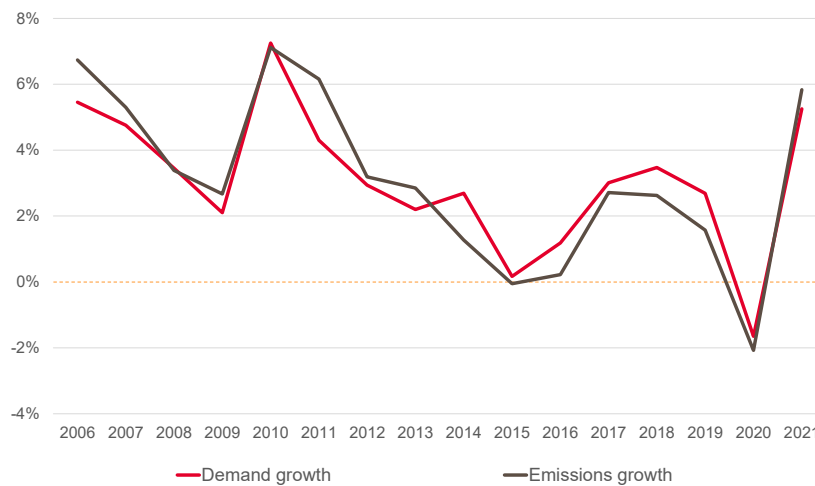
Primary energy demand mix



Electricity generation by source



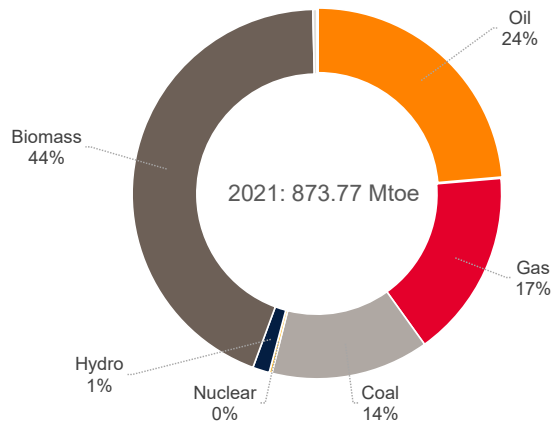
Primary energy demand and CO₂ emissions growth



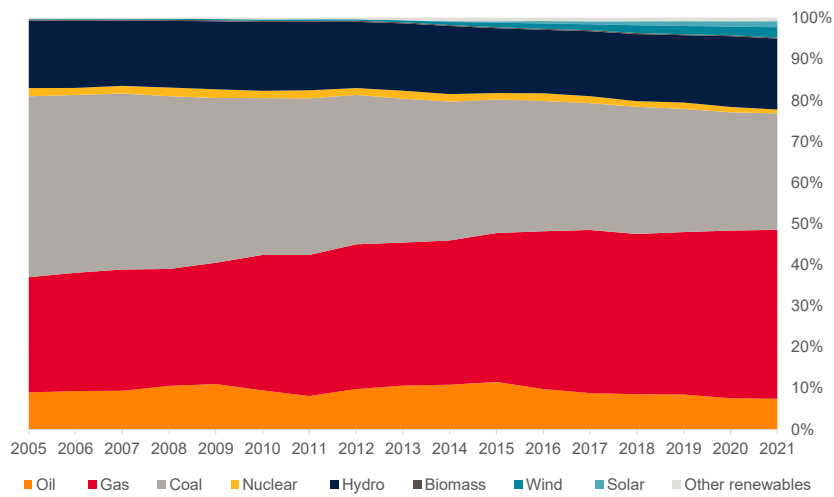
Africa (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	712.2	723.0	760.3	755.3	778.8	791.0	805.8	833.8	816.8	873.8	100.0
Oil	166.4	172.3	193.4	182.3	187.9	184.5	182.8	198.8	182.0	205.5	23.5
Gas	102.0	101.5	103.2	110.5	118.5	126.0	132.6	135.2	133.9	143.1	16.4
Coal	105.5	104.0	112.1	105.2	108.8	111.0	113.9	117.2	108.1	120.0	13.7
Nuclear	3.1	3.7	3.6	3.2	3.9	3.7	3.0	3.5	2.9	2.2	0.2
Hydro	9.6	10.1	10.5	10.4	10.3	10.8	11.4	11.7	12.3	12.7	1.5
Biomass	323.0	328.5	332.4	338.2	343.4	348.4	354.7	360.0	370.1	382.6	43.8
Other renewables	0.2	0.3	0.6	1.0	1.4	1.7	2.4	2.8	3.0	3.1	0.4
Electricity balance of trade*	2.3	2.8	4.5	4.6	4.5	5.0	5.0	4.6	4.6	4.7	0.5
Total final consumption, by source	505.4	521.1	532.3	538.2	550.6	560.5	576.0	588.8	581.3	610.1	100.0
Oil	145.8	153.4	159.2	158.7	162.0	163.4	165.7	169.9	159.6	172.2	28.2
Gas	33.7	33.7	32.3	35.8	38.6	40.8	45.1	45.2	43.5	44.2	7.2
Coal	18.3	20.0	21.0	18.8	18.4	19.7	25.3	28.6	24.1	26.4	4.3
Electricity	48.7	49.4	51.0	51.9	53.6	54.5	56.3	57.5	57.4	60.5	9.9
Heat	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Biomass	258.7	264.5	268.7	272.8	277.8	281.9	283.4	287.5	296.5	306.7	50.3
Electricity generation, by source	61.3	63.1	65.4	67.5	68.7	70.9	72.6	74.6	73.9	76.4	100.0
Oil	6.0	6.7	7.1	7.8	6.7	6.3	6.2	6.3	5.6	5.7	7.5
Gas	21.5	22.0	22.9	24.5	26.3	28.1	28.3	29.5	30.2	31.4	41.0
Coal	22.2	22.1	22.1	21.9	21.7	21.8	22.5	22.3	21.2	21.7	28.3
Nuclear	1.0	1.2	1.2	1.1	1.3	1.2	1.0	1.1	1.0	0.7	0.9
Hydro	9.9	10.3	10.8	10.6	10.6	11.2	11.9	12.2	12.7	13.2	17.3
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	0.3	0.5	0.7	0.9	1.0	1.4	1.5	1.6	1.9	2.5
Solar	0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.9	1.0	1.1	1.5
Other renewables	0.2	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7
Total final consumption, by sector	505.4	521.1	532.3	538.2	550.6	560.5	576.0	588.8	581.3	610.1	100.0
Industry	88.3	90.7	87.8	86.9	86.9	86.5	89.8	89.8	84.6	89.7	14.7
Transport	98.1	105.8	110.0	111.5	116.1	116.9	119.1	122.1	115.6	124.6	20.4
Residential/Commercial	290.3	298.6	307.5	312.0	317.4	325.8	334.0	344.0	350.6	363.5	59.6
Oil final consumption, by sector	145.8	153.4	159.2	158.7	162.0	163.4	165.7	169.9	159.6	172.2	100.0
Industry	15.2	16.9	17.9	17.2	17.2	16.5	16.6	16.9	15.1	16.9	9.8
Transport	97.2	104.9	109.2	110.6	115.3	116.1	118.2	121.2	114.8	123.8	71.9
Residential/Commercial	18.1	18.7	18.4	18.0	16.5	16.5	16.7	17.6	17.3	17.9	10.4
Natural gas final consumption, by sector	33.7	33.7	32.3	35.8	38.6	40.8	45.1	45.2	43.5	44.2	100.0
Industry	18.5	17.9	16.1	17.0	17.4	19.0	19.8	19.9	19.1	19.6	44.4
Transport	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.9
Residential/Commercial	6.6	7.5	8.1	8.9	9.3	10.0	12.0	12.4	11.8	11.7	26.4
Refined products consumption	145.8	153.4	159.2	158.7	162.0	163.4	165.7	169.9	159.6	172.2	100.0
Gasoline	45.9	48.6	50.4	51.6	54.3	54.7	55.8	55.9	54.6	59.6	34.6
Diesel	63.3	69.3	71.5	72.2	74.0	73.9	73.9	78.2	73.5	78.5	45.6
Heating Oil	6.6	6.8	7.3	6.0	5.9	5.5	5.8	5.7	4.6	5.1	3.0
Aviation Jet	1.9	2.0	1.9	2.0	2.1	2.3	3.2	2.7	1.6	1.9	1.1
LPG	13.1	12.8	12.8	13.2	13.5	13.8	14.4	15.1	15.5	16.0	9.3
Imports	139.1	147.2	160.2	161.0	170.1	164.3	153.6	164.9	153.9	175.5	100.0
Oil	132.2	140.4	153.0	147.9	154.7	149.7	142.9	156.2	143.7	160.6	91.5
Gas	6.9	6.8	7.2	13.0	15.3	14.7	10.7	8.7	10.2	14.9	8.5
Gasoline	28.4	30.7	33.0	32.4	37.1	36.6	30.9	39.2	39.1	47.9	27.3
Diesel	38.8	43.7	47.9	52.9	51.8	51.3	49.8	53.1	49.6	60.2	34.3
Heating Oil	6.2	8.0	9.5	9.3	8.2	7.5	6.3	5.6	5.3	10.0	5.7
Aviation Jet	4.2	4.0	4.1	4.5	4.9	5.4	6.0	5.9	3.6	5.5	3.1
LPG	6.3	6.3	6.9	7.4	7.9	7.9	8.4	8.6	9.3	8.8	5.0
Exports	503.0	457.0	428.2	432.7	413.2	437.3	440.8	441.4	374.7	358.4	100.0
Oil	421.1	384.3	356.0	360.5	334.4	351.7	356.4	361.1	296.1	264.4	73.8
Gas	81.9	72.6	72.3	72.1	78.8	85.5	84.4	80.3	78.6	94.0	26.2
Gasoline	1.5	1.8	1.8	1.9	2.4	2.3	2.2	2.2	1.9	1.5	0.4
Diesel	1.5	2.3	2.8	2.8	3.2	2.5	2.4	2.4	1.4	1.4	0.4
Heating Oil	8.4	10.7	9.5	9.9	10.6	9.8	9.1	8.3	10.2	8.6	2.4
Aviation Jet	3.3	4.3	3.6	4.3	2.8	3.6	3.6	3.2	3.4	1.7	0.5
LPG	7.5	7.2	9.5	9.8	9.6	9.3	8.9	8.3	7.1	6.5	1.8
CO₂ Emissions (Million tons CO₂)	1,109.4	1,147.1	1,192.2	1,184.1	1,201.9	1,229.7	1,260.1	1,293.8	1,224.3	1,334.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	215.0	214.1	214.6	206.6	205.3	203.2	201.6	191.8	185.6	190.3	-
Final energy intensity (toe/million \$15ppp)	94.6	94.3	92.9	90.9	90.7	89.3	88.7	84.3	85.3	84.2	-
Total energy intensity (toe/million \$15ppp)	138.0	135.0	136.9	131.8	133.0	130.7	128.9	123.6	123.8	124.6	-

*Heat is included

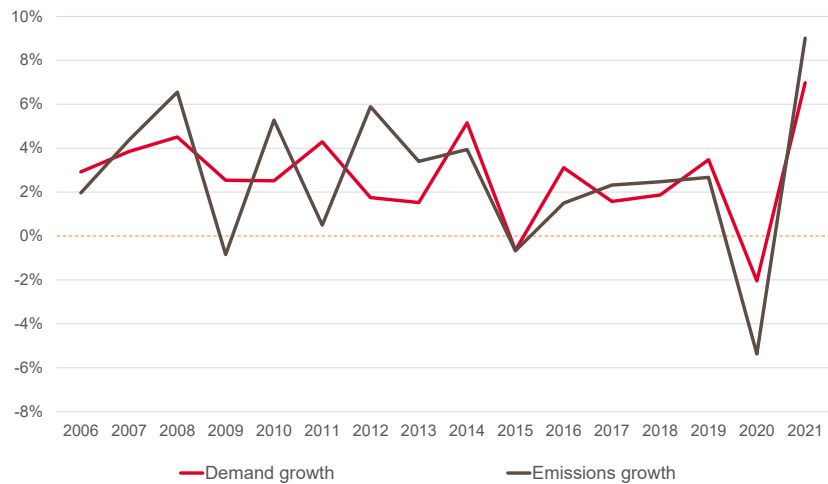
Primary energy demand mix



Electricity generation by source



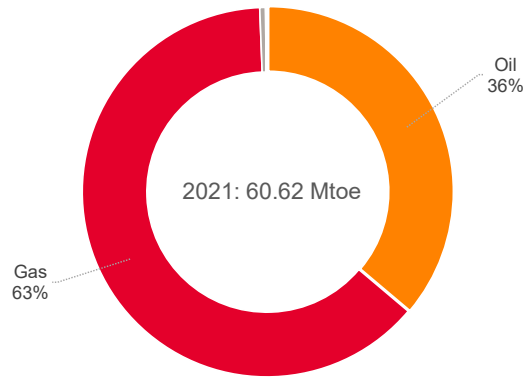
Primary energy demand and CO₂ emissions growth



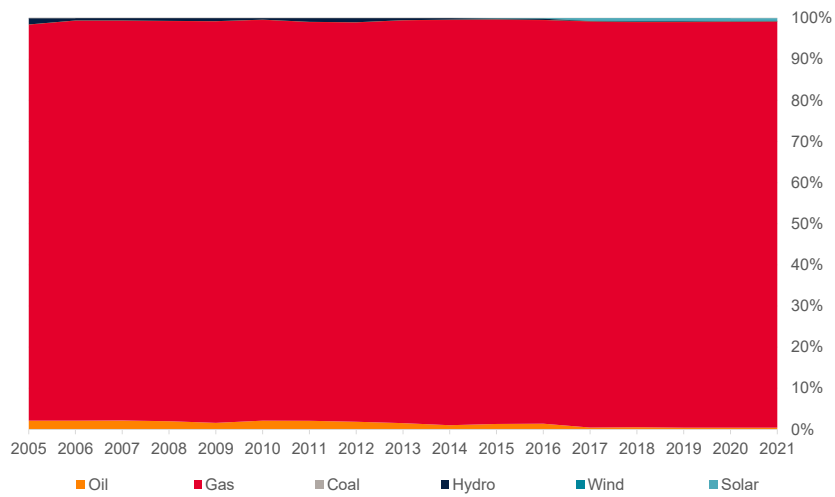
Algeria (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	47.4	49.1	53.6	56.0	55.6	57.2	60.9	63.0	59.7	60.6	100.0
Oil	19.0	20.2	21.1	21.5	20.9	21.0	21.6	22.5	21.0	21.9	36.2
Gas	28.0	28.6	32.3	34.4	34.7	35.9	38.9	40.1	38.3	38.3	63.2
Coal	0.3	0.2	0.2	0.1	0.0	0.2	0.4	0.3	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	0.1	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	0.1	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	30.8	32.4	34.6	36.9	37.1	37.7	41.8	43.2	40.9	41.2	100.0
Oil	16.6	17.4	18.1	18.4	17.9	17.7	18.0	18.8	17.7	18.4	44.6
Gas	10.5	11.0	12.5	14.1	14.8	15.0	18.5	18.9	17.8	17.2	41.8
Coal	0.2	0.2	0.1	0.1	0.0	0.2	0.3	0.2	0.2	0.2	0.5
Electricity	3.5	3.7	3.9	4.3	4.5	4.8	5.0	5.3	5.2	5.4	13.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	5.3	5.6	6.1	6.5	6.7	7.2	7.3	7.7	7.5	7.8	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4
Gas	5.2	5.5	6.0	6.4	6.6	7.1	7.2	7.6	7.4	7.7	98.8
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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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	0.1	0.1	0.1	0.1	0.7
Other renewables	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	30.8	32.4	34.6	36.9	37.1	37.7	41.8	43.2	40.9	41.2	100.0
Industry	5.3	5.4	5.5	5.9	6.0	6.6	7.0	7.6	7.3	7.2	17.5
Transport	12.4	13.0	14.1	15.0	14.5	14.4	14.6	14.8	14.1	14.4	34.8
Residential/Commercial	9.5	10.7	10.5	11.6	11.8	12.7	14.7	15.7	14.9	15.0	36.4
Oil final consumption, by sector	16.6	17.4	18.1	18.4	17.9	17.7	18.0	18.8	17.7	18.4	100.0
Industry	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	3.4
Transport	12.3	13.0	14.0	14.9	14.4	14.3	14.5	14.7	14.0	14.3	77.5
Residential/Commercial	2.4	2.6	1.9	2.0	1.9	2.1	2.3	2.8	2.7	2.9	16.0
Natural gas final consumption, by sector	10.5	11.0	12.5	14.1	14.8	15.0	18.5	18.9	17.8	17.2	100.0
Industry	3.0	3.1	3.3	3.4	3.6	3.9	4.3	4.9	4.6	4.5	25.9
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	5.1	5.8	6.2	7.0	7.2	7.7	9.3	9.6	9.1	8.8	51.1
Refined products consumption	16.6	17.4	18.1	18.4	17.9	17.7	18.0	18.8	17.7	18.4	100.0
Gasoline	3.7	4.1	4.4	4.7	4.6	4.4	4.2	4.2	3.6	3.7	20.1
Diesel	9.3	9.8	9.9	10.5	10.3	10.2	10.5	10.9	10.6	10.8	58.9
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.9
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
LPG	2.5	2.4	2.2	2.2	2.2	2.3	2.6	2.8	2.7	3.1	16.7
Imports	4.9	5.5	3.5	4.4	3.9	3.8	1.0	2.1	1.0	1.8	100.0
Oil	4.9	5.5	3.5	4.4	3.9	3.8	1.0	2.1	1.0	1.8	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	1.3	1.7	1.1	1.7	1.7	1.7	0.1	0.6	0.4	0.3	18.7
Diesel	2.9	2.8	1.1	1.8	1.5	1.5	0.3	0.9	0.3	0.6	32.2
Heating Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.1	4.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	104.6	96.9	95.0	95.0	104.6	102.1	95.1	87.3	78.2	89.9	100.0
Oil	60.0	56.6	57.0	58.0	58.7	56.2	51.3	50.9	44.8	44.3	49.3
Gas	44.5	40.3	38.0	37.0	45.9	45.9	43.7	36.4	33.4	45.6	50.7
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	4.9	5.1	6.2	6.4	6.7	6.1	5.6	5.5	6.4	6.0	6.7
Aviation Jet	0.7	1.2	1.6	1.1	1.2	1.2	1.0	0.7	1.0	0.6	0.6
LPG	6.5	6.3	8.5	8.9	8.6	8.2	7.8	7.4	6.2	5.6	6.3
CO₂ Emissions (Million tons CO₂)	115.5	118.4	127.3	135.5	133.4	134.7	143.4	147.9	141.4	143.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	267.7	266.9	276.6	283.8	270.9	270.0	284.3	290.3	292.3	284.5	-
Final energy intensity (toe/million \$15ppp)	65.1	67.2	67.2	69.6	67.3	69.2	73.8	76.8	76.8	74.5	-
Total energy intensity (toe/million \$15ppp)	109.9	110.7	116.3	117.4	112.8	114.6	120.8	123.6	123.4	120.6	-

*Heat is included

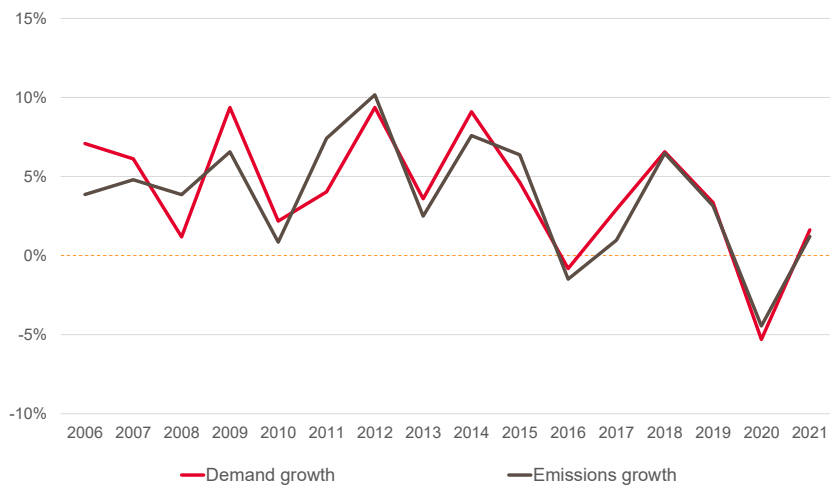
Primary energy demand mix



Electricity generation by source



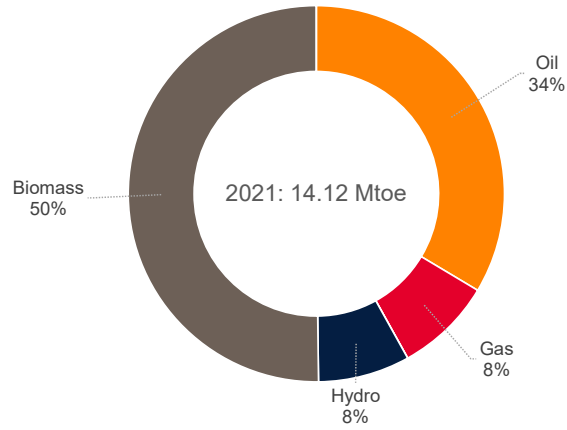
Primary energy demand and CO₂ emissions growth



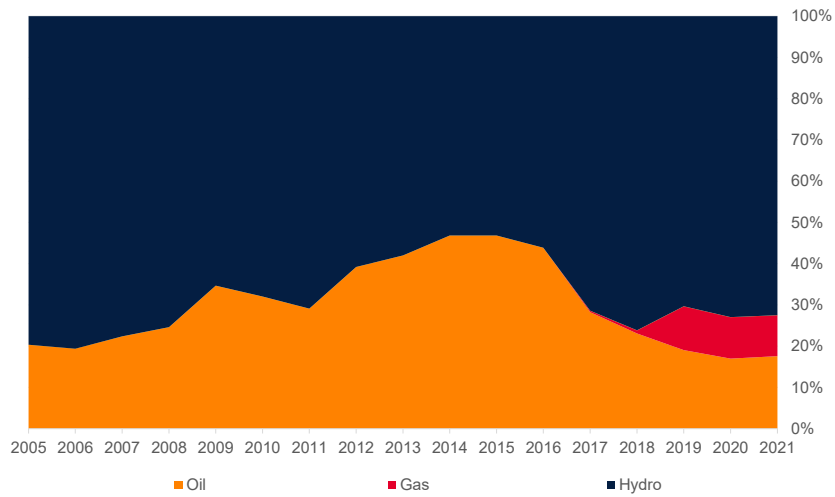
Angola (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	13.0	13.2	17.4	15.3	13.6	13.0	15.4	14.9	13.0	14.1	100.0
Oil	6.3	6.5	10.7	8.1	6.3	5.4	7.3	6.5	4.4	5.4	38.2
Gas	0.6	0.3	0.2	0.6	0.7	0.7	0.9	1.1	1.1	1.1	7.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.4	0.5	0.7	0.8	0.9	1.0	1.0	7.3
Biomass	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	46.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by source	9.7	10.4	10.5	10.7	10.7	9.7	10.1	10.7	9.8	9.8	100.0
Oil	4.2	5.0	5.0	4.7	4.6	3.8	3.8	4.3	3.3	3.2	32.7
Gas	0.6	0.3	0.2	0.6	0.6	0.3	0.6	0.4	0.3	0.3	3.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.5	0.6	0.7	0.7	0.8	0.8	1.0	1.1	1.2	1.2	12.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	4.4	4.5	4.6	4.6	4.7	4.8	4.8	4.9	5.0	5.0	51.4
Electricity generation, by source	0.5	0.7	0.8	0.8	0.9	0.9	1.1	1.3	1.4	1.4	100.0
Oil	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	17.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	9.9
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	0.4	0.5	0.7	0.8	0.9	1.0	1.0	72.5
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	9.7	10.4	10.5	10.7	10.7	9.7	10.1	10.7	9.8	9.8	100.0
Industry	1.1	0.9	0.8	1.2	1.3	0.9	1.2	1.1	1.0	1.0	10.5
Transport	2.3	2.6	2.7	2.7	2.7	2.3	2.3	2.7	1.9	1.9	19.1
Residential/Commercial	6.1	6.6	6.6	6.5	6.5	6.3	6.4	6.8	6.7	6.7	68.6
Oil final consumption, by sector	4.2	5.0	5.0	4.7	4.6	3.8	3.8	4.3	3.3	3.2	100.0
Industry	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	5.5
Transport	2.3	2.6	2.7	2.7	2.7	2.3	2.3	2.7	1.9	1.9	58.4
Residential/Commercial	1.4	1.8	1.7	1.5	1.4	1.1	1.1	1.2	1.0	1.0	30.6
Natural gas final consumption, by sector	0.6	0.3	0.2	0.6	0.6	0.3	0.6	0.4	0.3	0.3	100.0
Industry	0.6	0.3	0.2	0.6	0.6	0.3	0.6	0.4	0.3	0.3	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	4.2	5.0	5.0	4.7	4.6	3.8	3.8	4.3	3.3	3.2	100.0
Gasoline	1.1	1.0	1.1	1.0	0.9	0.7	0.7	0.7	0.5	0.5	17.0
Diesel	2.5	3.2	3.2	3.1	3.0	2.4	2.4	2.8	2.0	1.9	60.2
Heating Oil	0.0	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.1	2.8
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	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	13.7
Imports	4.8	4.9	5.8	5.4	4.4	3.5	3.4	3.3	2.2	2.9	100.0
Oil	4.8	4.9	5.8	5.4	4.4	3.5	3.4	3.3	2.2	2.9	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.4	1.1	1.5	1.3	1.1	1.0	1.2	1.2	0.9	1.0	35.0
Diesel	3.0	3.3	3.7	3.6	3.0	2.3	2.0	1.9	1.2	1.7	60.1
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	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Exports	85.6	86.4	83.2	88.3	85.4	81.5	74.2	69.2	65.3	56.2	100.0
Oil	85.6	86.0	82.9	88.3	84.6	77.4	69.8	64.7	60.2	52.3	93.1
Gas	0.0	0.4	0.4	0.0	0.7	4.1	4.4	4.5	5.1	3.9	6.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.2	0.4	0.4	0.6	0.6	0.6	0.4	0.3	0.3	0.2	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.2	0.1	0.0	0.2	0.4	0.1	0.2	0.2	0.4
CO₂ Emissions (Million tons CO₂)	16.6	19.4	21.0	21.7	19.5	16.8	17.3	19.0	15.3	15.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	89.9	100.4	103.7	105.9	97.7	84.6	88.2	97.6	82.8	85.8	-
Final energy intensity (toe/million \$15ppp)	51.6	52.2	50.4	51.2	52.5	47.7	50.6	53.7	52.0	51.7	-
Total energy intensity (toe/million \$15ppp)	70.8	68.3	85.9	74.7	68.2	65.5	78.7	76.5	70.7	76.1	-

*Heat is included

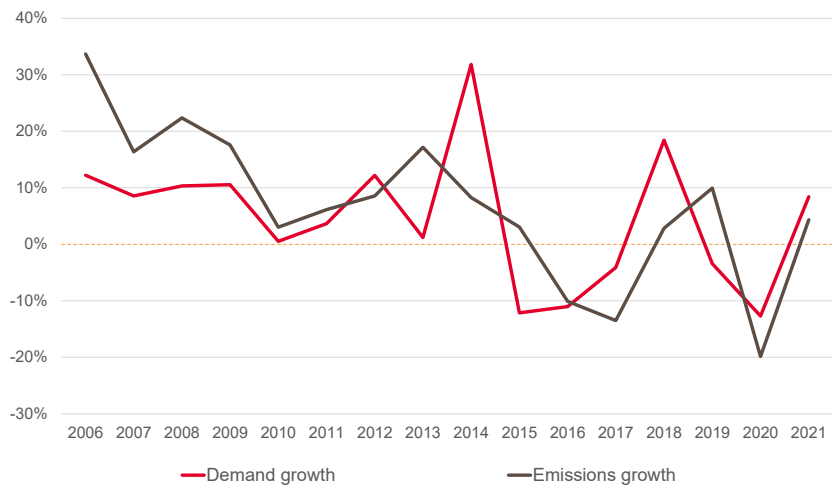
Primary energy demand mix



Electricity generation by source

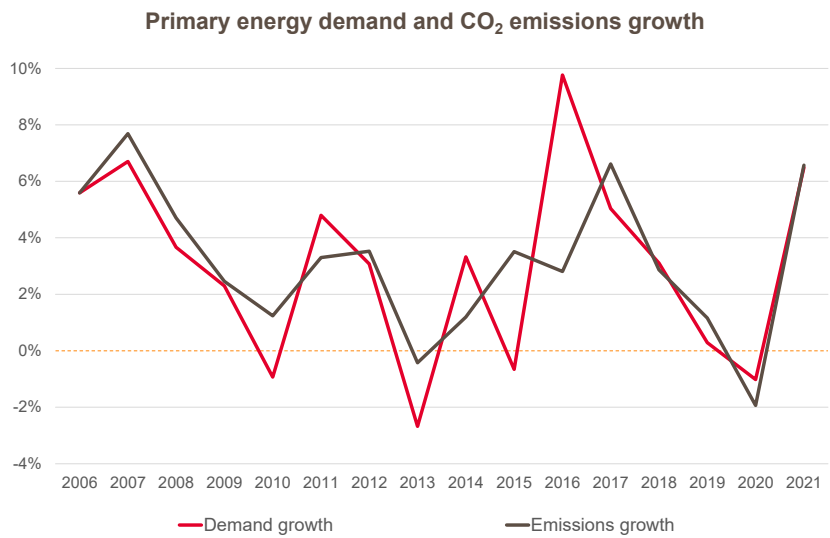
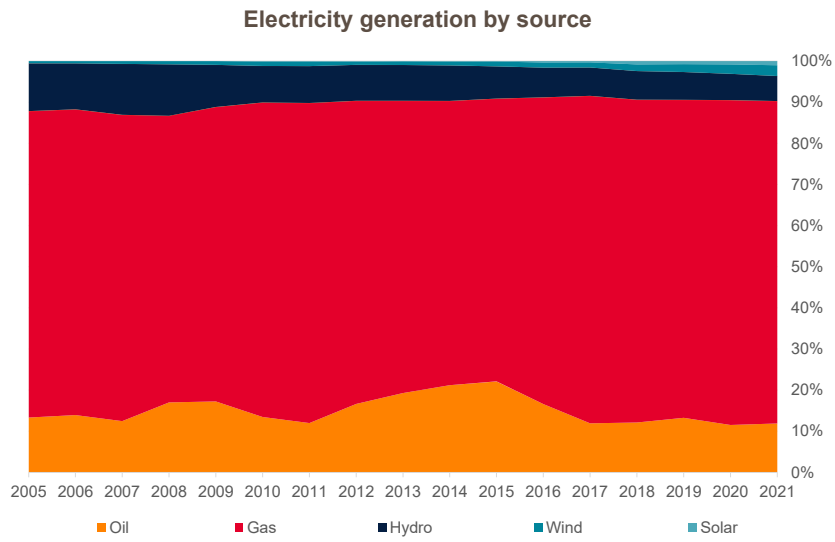
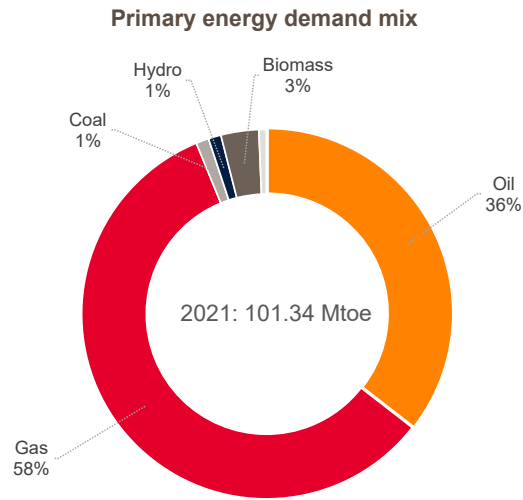


Primary energy demand and CO₂ emissions growth



Egypt (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	80.7	78.6	81.2	80.7	88.5	93.0	95.9	96.2	95.2	101.3	100.0
Oil	36.2	36.1	41.4	39.0	42.3	37.7	36.1	35.9	34.2	36.0	35.5
Gas	39.1	37.6	34.9	36.8	41.5	48.9	51.8	52.7	55.0	59.1	58.3
Coal	1.0	0.4	0.4	0.3	0.2	1.7	3.2	2.7	1.1	1.1	1.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Biomass	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.3
Other renewables	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.5	0.7	0.6
Electricity balance of trade*	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	54.9	53.2	52.7	54.3	55.4	58.9	60.4	60.7	59.3	64.6	100.0
Oil	30.2	28.8	30.2	30.1	31.1	29.8	28.9	29.0	28.3	31.0	48.1
Gas	12.0	11.9	9.1	10.5	11.0	13.4	14.0	14.2	14.5	15.4	23.9
Coal	0.4	0.4	0.4	0.3	0.1	1.6	3.1	2.6	1.0	1.1	1.7
Electricity	10.8	10.6	11.5	11.9	11.6	12.6	12.8	13.2	14.0	15.4	23.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	2.5
Electricity generation, by source	12.9	13.2	13.8	14.9	15.2	15.9	16.2	16.7	17.3	18.2	100.0
Oil	2.1	2.5	2.9	3.3	2.5	1.9	2.0	2.2	2.0	2.2	11.9
Gas	9.5	9.4	9.5	10.2	11.4	12.7	12.7	12.9	13.7	14.2	78.4
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	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	6.1
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	2.6
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	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	54.9	53.2	52.7	54.3	55.4	58.9	60.4	60.7	59.3	64.6	100.0
Industry	13.8	14.6	13.3	13.5	13.2	15.9	17.4	17.3	15.2	16.8	26.0
Transport	17.0	17.1	17.9	18.3	19.1	18.6	18.0	18.0	18.0	20.3	31.5
Residential/Commercial	14.3	14.3	15.2	15.8	15.4	16.3	16.6	16.8	17.4	18.3	28.3
Oil final consumption, by sector	30.2	28.8	30.2	30.1	31.1	29.8	28.9	29.0	28.3	31.0	100.0
Industry	3.7	4.9	5.4	4.8	5.0	4.4	4.3	4.4	3.7	4.1	13.2
Transport	16.5	16.7	17.5	18.0	18.8	18.2	17.6	17.6	17.6	19.9	64.1
Residential/Commercial	4.8	4.7	4.7	4.8	4.8	4.6	4.5	4.4	4.4	4.4	14.0
Natural gas final consumption, by sector	12.0	11.9	9.1	10.5	11.0	13.4	14.0	14.2	14.5	15.4	100.0
Industry	6.2	6.1	4.3	5.1	4.5	6.2	6.2	6.3	6.4	6.8	44.2
Transport	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	2.5
Residential/Commercial	1.2	1.3	1.5	1.5	1.7	1.9	2.2	2.3	2.3	2.5	15.9
Refined products consumption	30.2	28.8	30.2	30.1	31.1	29.8	28.9	29.0	28.3	31.0	100.0
Gasoline	6.5	6.3	6.8	7.3	7.8	7.6	7.6	7.6	7.9	8.8	28.3
Diesel	12.9	12.9	13.3	13.3	14.0	13.5	12.6	12.6	12.7	14.3	46.1
Heating Oil	2.6	2.7	3.2	2.4	2.4	1.9	2.0	2.1	1.2	1.3	4.2
Aviation Jet	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.4	0.6	1.8
LPG	4.8	4.7	4.7	4.8	4.8	4.6	4.5	4.4	4.4	4.4	14.1
Imports	13.0	15.9	20.6	25.5	30.3	25.9	20.5	16.5	18.5	23.7	100.0
Oil	13.0	15.9	20.6	19.8	22.5	19.3	18.0	16.5	16.5	19.4	81.8
Gas	0.0	0.0	0.0	5.7	7.8	6.6	2.5	0.0	2.0	4.3	18.2
Gasoline	1.3	1.7	2.3	2.7	3.1	2.9	2.6	2.3	3.2	4.7	19.6
Diesel	5.2	6.0	6.5	7.3	8.1	7.0	6.3	6.1	5.5	7.8	33.0
Heating Oil	1.0	2.9	4.1	3.7	2.2	0.5	0.1	0.0	0.0	0.0	0.0
Aviation Jet	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.3	2.3	2.5	2.6	2.8	2.6	2.6	2.5	2.6	2.5	10.6
Exports	17.1	15.6	14.3	15.5	14.4	14.0	15.8	15.7	18.8	22.5	100.0
Oil	12.0	13.9	14.0	15.2	13.3	13.1	13.8	11.6	12.1	11.9	53.1
Gas	5.1	1.7	0.3	0.2	1.1	1.0	2.0	4.1	6.6	10.6	46.9
Gasoline	0.0	0.0	0.0	0.2	0.2	0.3	0.2	0.3	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	0.2	0.0	0.0	0.4	0.3	0.7	0.1	0.4
Aviation Jet	0.3	0.5	0.5	1.0	0.9	1.0	1.3	1.3	1.2	0.7	3.2
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	196.9	196.1	198.4	205.4	211.1	225.1	231.5	234.2	229.7	244.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	203.1	197.9	194.6	193.0	190.1	194.6	190.0	182.1	172.4	177.9	-
Final energy intensity (toe/million \$15ppp)	49.4	48.0	47.1	46.3	44.5	45.3	44.0	41.8	39.3	41.5	-
Total energy intensity (toe/million \$15ppp)	83.3	79.3	79.6	75.8	79.7	80.4	78.7	74.8	71.5	73.6	-

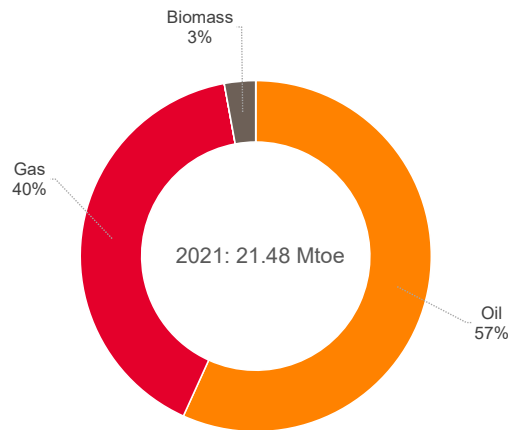
*Heat is included



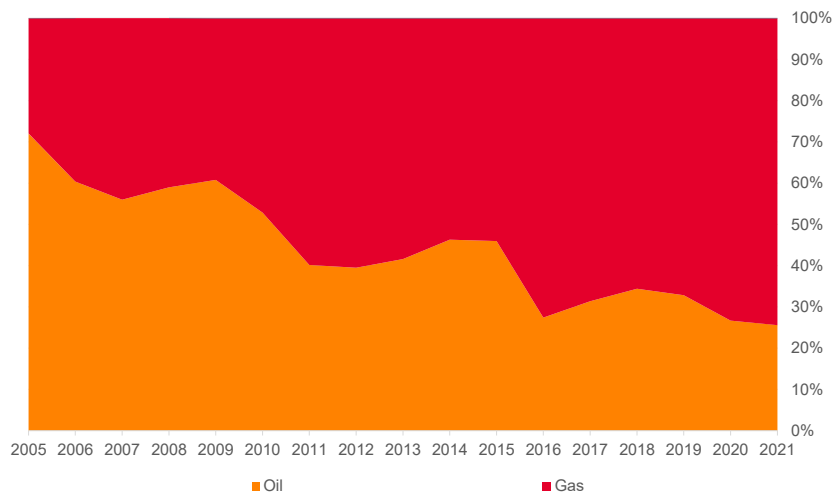
Libya (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	19.2	17.3	22.8	18.3	18.2	17.5	17.2	22.4	16.3	21.5	100.0
Oil	10.8	7.5	14.0	10.9	8.7	9.0	8.9	14.8	8.6	12.1	56.5
Gas	7.8	9.2	8.2	6.8	8.8	7.9	7.7	6.9	6.9	8.6	40.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.5
Total final consumption, by source	10.0	11.1	11.3	9.1	9.3	8.8	8.9	9.0	8.7	9.0	100.0
Oil	6.9	7.4	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	72.6
Gas	1.3	1.8	1.7	1.6	0.8	0.5	0.5	0.5	0.5	0.6	6.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	1.6	1.6	1.5	1.3	1.2	1.2	1.5	1.5	1.5	1.6	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	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	3.0
Electricity generation, by source	2.9	3.3	3.2	3.2	2.7	2.9	2.9	3.0	2.5	2.7	100.0
Oil	1.2	1.4	1.5	1.5	0.7	0.9	1.0	1.0	0.7	0.7	25.6
Gas	1.8	1.9	1.7	1.7	2.0	2.0	1.9	2.0	1.9	2.0	74.4
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	0.0
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	10.0	11.1	11.3	9.1	9.3	8.8	8.9	9.0	8.7	9.0	100.0
Industry	1.1	1.9	1.9	1.2	1.0	0.8	0.9	0.8	0.7	0.7	8.3
Transport	5.7	6.0	6.6	5.1	6.2	5.8	5.7	5.8	5.7	5.7	64.2
Residential/Commercial	2.3	2.3	2.0	1.7	1.7	1.7	2.0	2.0	2.0	2.1	23.4
Oil final consumption, by sector	6.9	7.4	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	100.0
Industry	0.4	0.7	0.7	0.4	0.4	0.4	0.5	0.4	0.3	0.3	5.3
Transport	5.7	6.0	6.6	5.1	6.2	5.8	5.7	5.8	5.7	5.7	88.4
Residential/Commercial	0.7	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	6.0
Natural gas final consumption, by sector	1.3	1.8	1.7	1.6	0.8	0.5	0.5	0.5	0.5	0.6	100.0
Industry	0.5	1.0	1.1	0.6	0.4	0.3	0.3	0.3	0.3	0.4	60.4
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	6.9	7.4	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	100.0
Gasoline	3.7	4.1	4.1	4.0	4.2	4.2	4.2	4.3	4.7	4.7	73.0
Diesel	2.0	1.9	2.5	1.1	1.9	1.6	1.4	1.5	1.0	1.0	15.2
Heating Oil	0.4	0.7	0.7	0.4	0.4	0.4	0.5	0.4	0.3	0.3	5.3
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	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	5.2
Imports	5.1	5.9	8.2	6.9	6.2	6.0	5.8	6.7	7.0	6.4	100.0
Oil	5.1	5.9	8.2	6.9	6.2	6.0	5.8	6.7	7.0	6.4	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	3.0	3.4	3.5	3.5	3.8	3.7	3.8	4.1	4.6	4.6	70.7
Diesel	1.7	2.2	4.4	3.3	2.2	2.1	1.9	2.4	1.9	1.6	24.9
Heating Oil	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.5	0.2	3.4
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	75.5	54.9	25.1	23.4	21.8	46.5	58.0	61.2	22.8	62.7	100.0
Oil	70.2	50.2	19.8	17.6	17.8	42.7	54.4	56.5	19.2	59.0	94.1
Gas	5.3	4.7	5.3	5.8	3.9	3.8	3.7	4.7	3.7	3.7	5.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.3	2.1	0.0	0.3	0.4	0.3	0.2	0.0	0.0	0.0	0.0
Aviation Jet	0.7	1.0	0.4	0.3	0.1	0.4	0.6	0.4	0.1	0.3	0.5
LPG	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1
CO₂ Emissions (Million tons CO₂)	48.9	53.3	52.7	46.5	43.7	44.2	44.9	45.2	39.5	41.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	222.9	296.5	380.7	338.9	323.3	246.9	232.4	263.0	302.5	240.7	-
Final energy intensity (toe/million \$15ppp)	41.7	56.9	76.9	59.4	66.1	47.4	44.8	50.9	65.1	50.7	-
Total energy intensity (toe/million \$15ppp)	87.4	96.3	164.8	133.5	134.3	97.7	88.7	130.3	124.8	125.2	-

*Heat is included

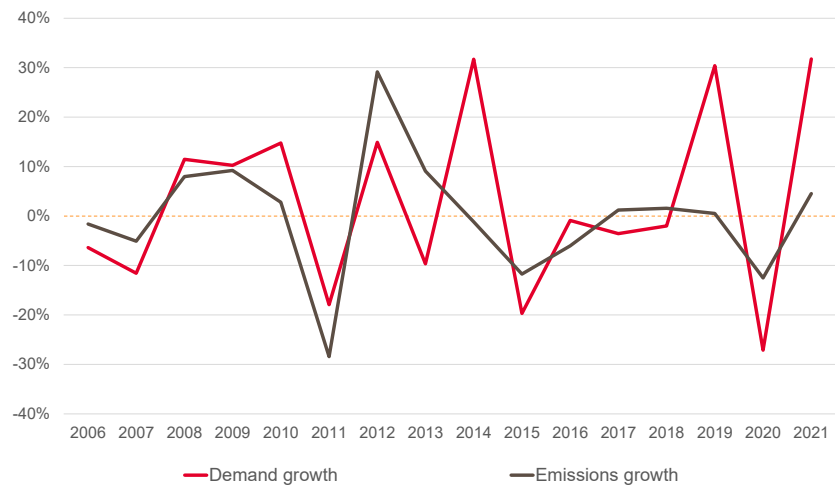
Primary energy demand mix



Electricity generation by source



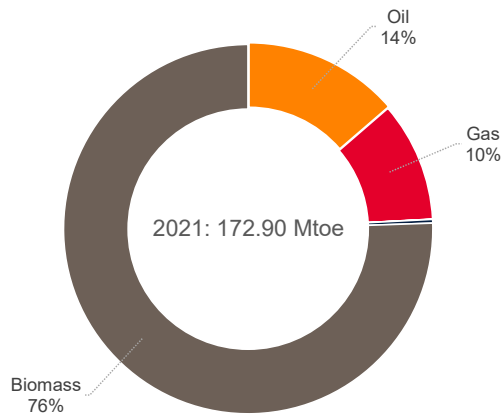
Primary energy demand and CO₂ emissions growth



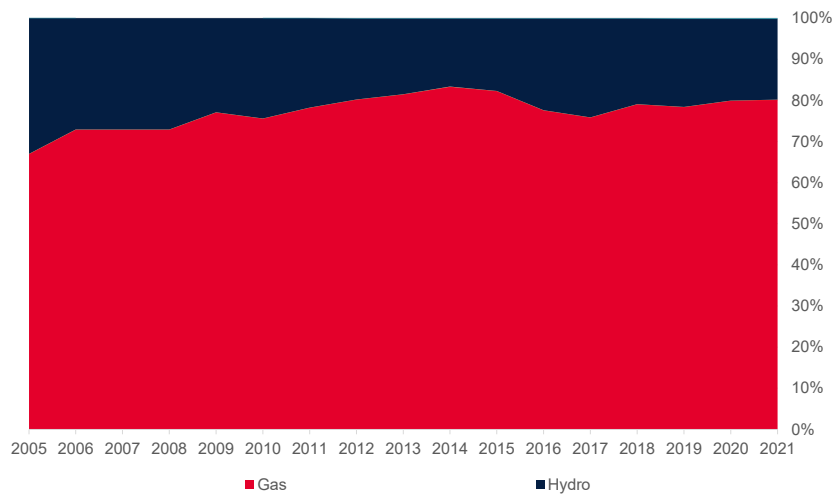
Nigeria (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	140.3	143.0	146.4	144.2	149.4	149.6	148.9	157.7	164.0	172.9	100.0
Oil	19.3	21.4	23.2	19.0	21.3	20.5	17.1	24.0	21.9	23.6	13.7
Gas	12.6	12.5	14.3	14.2	15.0	14.2	15.0	15.3	15.4	18.1	10.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.3
Biomass	107.9	108.5	108.5	110.4	112.3	114.2	116.2	117.7	126.0	130.6	75.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-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	118.7	123.6	126.0	126.0	128.4	130.0	132.2	135.5	143.4	149.5	100.0
Oil	14.4	18.0	20.1	18.2	19.0	18.9	19.1	20.7	20.9	22.6	15.1
Gas	3.1	3.3	3.8	3.8	3.7	3.5	3.7	3.8	3.6	3.8	2.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2.2	2.0	2.1	2.2	2.2	2.2	2.3	2.3	2.5	2.5	1.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	99.1	100.2	100.0	101.8	103.6	105.3	107.1	108.7	116.3	120.5	80.6
Electricity generation, by source	2.5	2.5	2.8	2.8	3.1	2.8	2.8	2.7	2.8	2.9	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	2.0	2.0	2.3	2.3	2.4	2.1	2.2	2.1	2.3	2.3	80.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.6	0.6	0.6	19.7
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	0.0
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	118.7	123.6	126.0	126.0	128.4	130.0	132.2	135.5	143.4	149.5	100.0
Industry	10.1	9.9	7.3	7.3	7.3	7.2	7.3	7.4	7.5	8.0	5.4
Transport	12.1	15.3	16.7	15.2	17.4	17.4	17.6	19.0	19.3	20.6	13.8
Residential/Commercial	95.4	97.2	100.4	101.9	102.2	104.0	105.9	107.7	115.2	119.5	79.9
Oil final consumption, by sector	14.4	18.0	20.1	18.2	19.0	18.9	19.1	20.7	20.9	22.6	100.0
Industry	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.6	2.4
Transport	12.1	15.3	16.7	15.2	17.4	17.4	17.6	19.0	19.3	20.6	90.9
Residential/Commercial	1.9	2.3	2.7	2.3	0.8	0.9	0.9	1.2	1.2	1.4	6.3
Natural gas final consumption, by sector	3.1	3.3	3.8	3.8	3.7	3.5	3.7	3.8	3.6	3.8	100.0
Industry	2.0	2.1	2.5	2.4	2.4	2.3	2.4	2.4	2.3	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	14.4	18.0	20.1	18.2	19.0	18.9	19.1	20.7	20.9	22.6	100.0
Gasoline	11.3	12.5	13.7	12.5	13.7	13.7	14.4	15.4	15.6	17.3	76.6
Diesel	0.6	2.6	2.9	2.6	3.5	3.5	2.9	3.3	3.4	3.0	13.2
Heating Oil	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	2.4
Aviation Jet	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	1.3
LPG	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.8	0.9	4.0
Imports	15.9	17.7	20.6	17.3	19.9	18.5	13.4	22.7	22.0	23.1	100.0
Oil	15.9	17.7	20.6	17.3	19.9	18.5	13.4	22.7	22.0	23.1	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	12.1	13.3	14.5	11.1	14.5	13.3	8.6	16.8	15.7	17.5	75.7
Diesel	1.9	2.2	3.4	3.9	4.0	3.8	3.5	4.3	5.0	3.9	16.9
Heating Oil	0.1	0.0	0.1	0.1	0.3	0.3	0.0	0.0	0.1	0.0	0.1
Aviation Jet	0.6	0.4	0.4	0.4	0.6	0.7	0.9	0.8	0.3	0.9	3.8
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	0.5	2.0
Exports	142.6	125.4	129.4	129.7	110.0	114.4	117.8	123.2	111.7	92.5	100.0
Oil	121.6	107.6	109.1	108.2	90.5	91.8	95.5	100.8	89.2	73.9	79.9
Gas	21.0	17.8	20.4	21.5	19.4	22.7	22.3	22.4	22.5	18.6	20.1
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	0.4	0.3	0.3	0.1	0.2	0.5	0.1	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)	72.4	84.2	93.3	87.3	90.7	88.5	89.7	94.2	94.9	102.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	85.7	93.5	97.4	88.8	93.7	90.8	90.3	92.8	95.2	98.9	-
Final energy intensity (toe/million \$15ppp)	139.3	135.9	130.0	126.6	131.2	131.9	131.6	132.1	142.4	143.3	-
Total energy intensity (toe/million \$15ppp)	166.1	158.7	153.0	146.7	154.5	153.4	149.8	155.3	164.5	167.3	-

*Heat is included

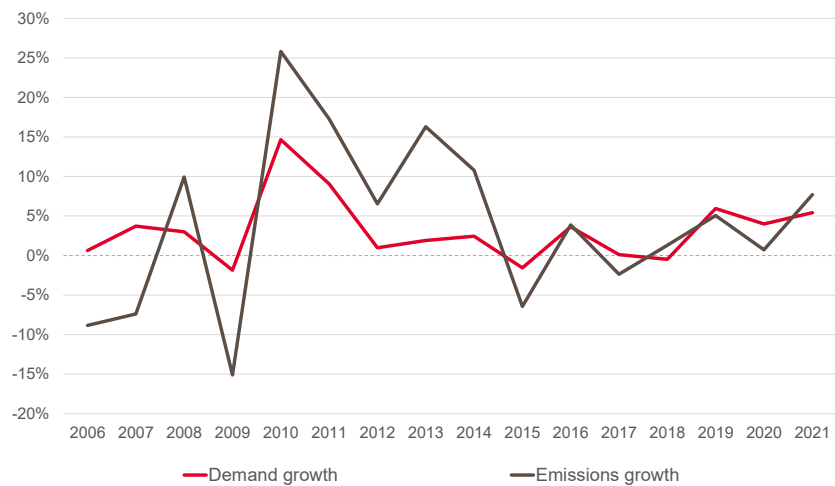
Primary energy demand mix



Electricity generation by source



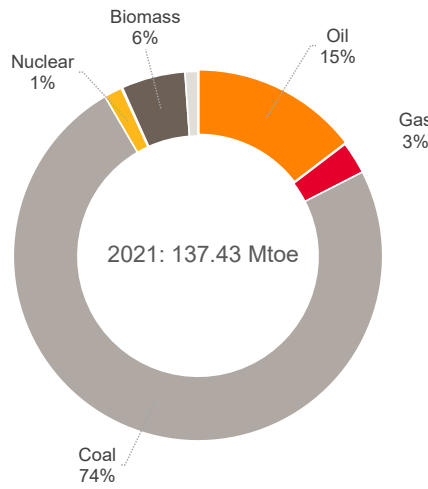
Primary energy demand and CO₂ emissions growth



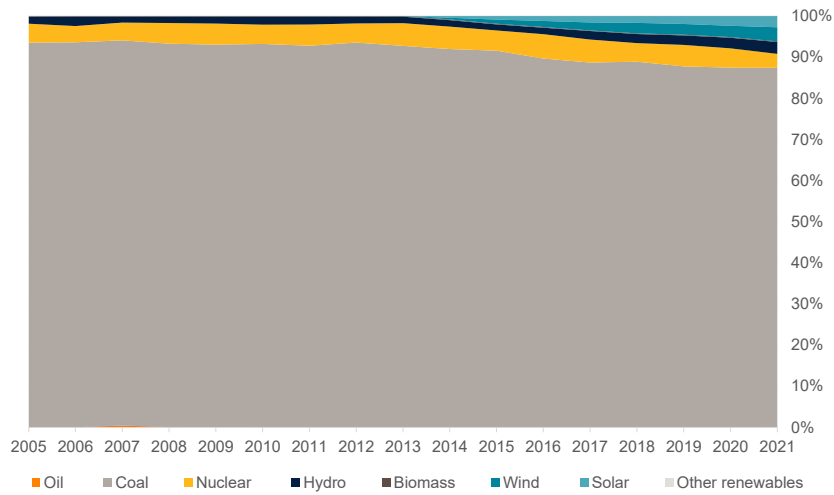
South Africa (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	131.0	129.9	137.6	128.8	134.9	135.9	134.7	140.1	128.1	137.4	100.0
Oil	18.4	18.2	20.0	18.3	19.9	20.9	20.1	22.4	18.1	20.2	14.7
Gas	4.0	4.1	3.9	4.3	4.4	4.2	4.0	4.0	3.9	3.9	2.8
Coal	97.2	95.9	102.1	94.7	98.7	98.7	99.0	101.5	94.4	102.0	74.2
Nuclear	3.1	3.7	3.6	3.2	3.9	3.7	3.0	3.5	2.9	2.2	1.6
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Biomass	8.5	8.1	7.9	7.8	7.7	7.9	7.7	7.8	7.6	7.7	5.6
Other renewables	0.0	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.3	1.6	1.1
Electricity balance of trade*	-0.4	-0.3	-0.1	-0.0	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.2
Total final consumption, by source	65.6	68.5	68.4	66.7	66.3	67.5	72.1	74.9	66.7	71.0	100.0
Oil	23.8	25.3	24.8	25.7	24.6	27.2	27.7	27.2	22.8	24.7	34.8
Gas	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.3	2.3	2.3	3.2
Coal	16.2	17.9	18.5	16.3	16.0	15.6	19.8	23.4	20.6	22.6	31.8
Electricity	17.0	16.9	16.8	16.4	17.6	16.2	16.4	16.1	15.2	15.6	21.9
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	6.3	6.1	5.9	5.9	5.8	6.0	5.7	5.8	5.7	5.8	8.1
Electricity generation, by source	22.2	22.0	21.7	21.5	21.7	21.9	22.1	21.7	20.6	21.1	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	20.7	20.4	20.0	19.7	19.5	19.5	19.6	19.1	18.0	18.4	87.4
Nuclear	1.0	1.2	1.2	1.1	1.3	1.2	1.0	1.1	1.0	0.7	3.4
Hydro	0.4	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	2.9
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	0.2	0.3	0.4	0.6	0.6	0.6	0.7	3.4
Solar	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.6	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	65.6	68.5	68.4	66.7	66.3	67.5	72.1	74.9	66.7	71.0	100.0
Industry	25.6	27.1	27.5	26.0	25.7	24.9	25.3	24.5	22.9	24.0	33.8
Transport	16.9	18.4	17.5	18.3	17.5	19.2	19.7	19.3	16.2	17.6	24.7
Residential/Commercial	16.4	16.4	16.3	15.7	16.3	15.6	19.2	23.2	21.1	22.3	31.4
Oil final consumption, by sector	23.8	25.3	24.8	25.7	24.6	27.2	27.7	27.2	22.8	24.7	100.0
Industry	1.9	2.0	2.1	2.3	2.1	1.8	1.9	2.0	1.9	2.1	8.5
Transport	16.6	18.1	17.2	18.0	17.2	18.9	19.5	19.0	16.0	17.3	70.2
Residential/Commercial	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.6	2.3
Natural gas final consumption, by sector	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.3	2.3	2.3	100.0
Industry	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.2	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	23.8	25.3	24.8	25.7	24.6	27.2	27.7	27.2	22.8	24.7	100.0
Gasoline	9.1	9.4	8.5	8.9	8.9	9.3	9.1	7.9	6.4	6.8	27.5
Diesel	10.0	11.4	11.4	12.0	10.8	11.8	11.8	13.6	12.3	13.7	55.3
Heating Oil	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.5	2.2
Aviation Jet	0.5	0.5	0.5	0.7	0.8	0.9	1.7	1.1	0.5	0.5	1.9
LPG	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.8
Imports	28.9	29.2	31.5	30.4	31.4	31.6	32.6	34.5	31.5	32.7	100.0
Oil	25.8	26.1	28.4	27.0	27.9	28.1	29.5	31.5	28.5	29.7	90.9
Gas	3.1	3.1	3.1	3.3	3.5	3.5	3.1	3.0	3.0	3.0	9.1
Gasoline	1.4	1.2	0.9	1.5	1.1	1.6	1.7	1.2	1.3	3.1	9.6
Diesel	3.3	4.4	4.5	5.8	3.9	5.4	5.4	5.2	6.3	9.0	27.6
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	1.7
Aviation Jet	0.2	0.2	0.2	0.2	0.1	0.4	0.3	0.4	0.5	0.3	1.1
LPG	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6
Exports	2.8	3.6	3.3	4.5	4.1	4.3	4.6	4.2	3.3	3.2	100.0
Oil	2.8	3.6	3.3	4.5	4.1	4.3	4.6	4.2	3.3	3.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.7	0.8	0.8	0.9	0.8	1.0	0.9	0.9	0.8	25.5
Diesel	0.8	1.4	1.3	1.4	1.7	1.6	1.6	1.6	0.8	0.8	25.4
Heating Oil	1.2	1.1	0.9	1.2	1.0	0.9	1.0	0.7	0.5	0.3	9.9
Aviation Jet	0.1	0.1	0.1	0.7	0.3	0.3	0.3	0.3	0.6	0.1	2.5
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	3.6
CO₂ Emissions (Million tons CO₂)	431.3	441.0	453.2	428.1	429.7	436.5	440.5	448.7	414.4	447.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	600.3	598.9	604.3	564.0	564.0	564.9	565.6	396.1	390.9	402.2	-
Final energy intensity (toe/million \$15ppp)	86.0	88.1	85.6	83.0	81.8	81.1	86.6	62.5	60.0	60.7	-
Total energy intensity (toe/million \$15ppp)	182.3	176.4	183.5	169.7	177.1	175.9	173.0	123.7	120.8	123.6	-

*Heat is included

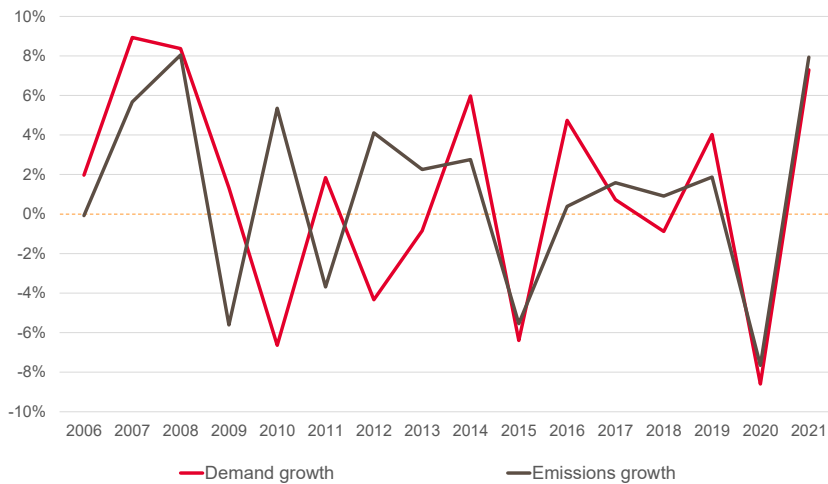
Primary energy demand mix



Electricity generation by source



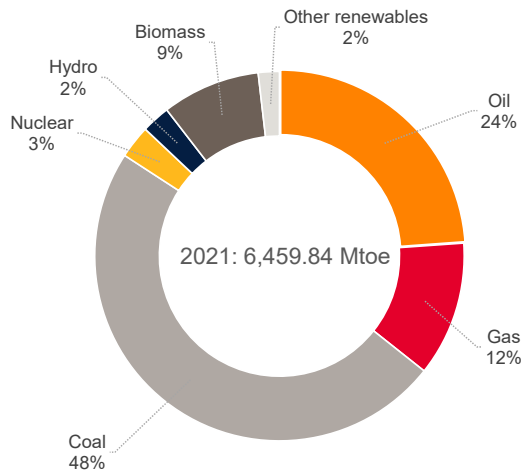
Primary energy demand and CO₂ emissions growth



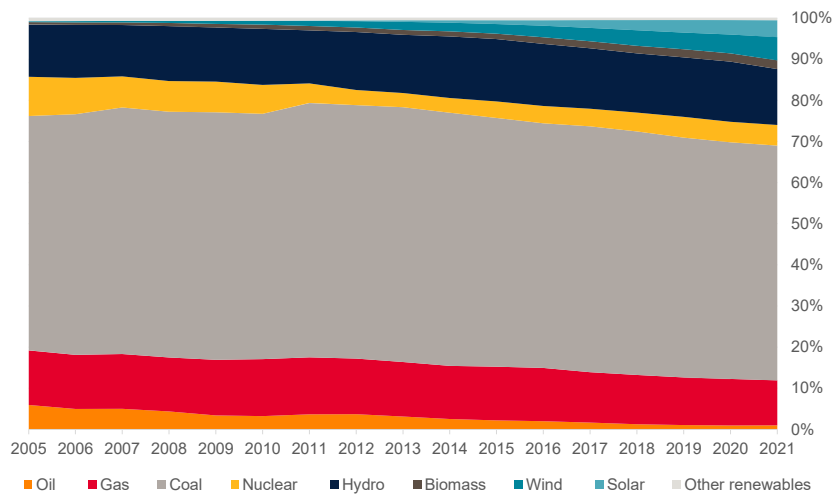
Asia-Pacific (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	5,277.5	5,416.2	5,564.6	5,604.6	5,644.3	5,843.4	6,059.5	6,237.5	6,176.8	6,459.8	100.0
Oil	1,285.4	1,313.7	1,341.2	1,393.1	1,437.9	1,481.8	1,511.9	1,530.2	1,481.3	1,519.7	23.5
Gas	541.9	571.9	588.6	587.2	606.5	638.5	680.7	708.4	711.4	751.3	11.6
Coal	2,710.0	2,767.8	2,834.9	2,800.8	2,735.8	2,812.4	2,906.5	2,987.6	2,947.0	3,086.7	47.8
Nuclear	89.0	88.8	97.3	110.4	122.5	130.3	148.1	168.6	169.5	183.8	2.8
Hydro	110.7	118.3	131.5	135.0	140.2	144.4	148.8	154.6	159.6	158.6	2.5
Biomass	472.2	474.4	481.6	479.5	488.6	504.4	512.1	521.7	524.4	547.5	8.5
Other renewables	14.0	20.0	24.1	29.6	39.7	52.1	66.9	78.4	90.9	117.2	1.8
Electricity balance of trade*	54.4	61.3	65.5	69.0	73.0	79.5	84.5	88.0	92.7	95.0	1.5
Total final consumption, by source	3,650.8	3,761.0	3,859.2	3,910.1	3,941.8	4,039.5	4,128.1	4,204.0	4,169.8	4,338.0	100.0
Oil	1,110.0	1,149.9	1,177.0	1,234.7	1,261.7	1,306.6	1,330.3	1,340.1	1,309.9	1,358.7	31.3
Gas	245.9	262.5	268.8	268.5	281.6	306.7	339.8	363.1	375.8	405.6	9.3
Coal	1,109.2	1,115.7	1,132.0	1,112.5	1,059.6	1,019.2	976.0	970.8	929.1	923.5	21.3
Electricity	669.5	709.6	750.1	760.2	800.4	852.8	913.6	953.0	966.6	1,041.1	24.0
Heat	98.9	109.3	114.5	121.9	132.7	142.2	157.7	164.3	174.1	184.8	4.3
Biomass	417.3	414.0	416.8	412.3	405.8	412.1	410.8	412.8	414.2	424.3	9.8
Electricity generation, by source	799.0	849.1	893.5	905.9	953.5	1,010.5	1,063.8	1,099.3	1,119.7	1,200.5	100.0
Oil	29.5	26.3	22.4	19.8	18.8	16.6	13.0	11.6	10.7	11.7	1.0
Gas	108.0	112.6	115.5	118.2	123.7	123.7	127.6	127.4	126.5	131.3	10.9
Coal	492.5	526.1	550.1	548.1	567.0	604.4	630.1	641.0	644.3	685.3	57.1
Nuclear	29.4	29.3	32.1	36.4	40.4	43.0	48.9	55.6	55.9	60.7	5.1
Hydro	112.7	120.3	133.7	137.3	144.0	148.5	152.9	158.6	163.9	162.9	13.6
Biomass	8.7	10.0	11.2	11.9	15.1	17.3	19.6	22.0	22.6	25.4	2.1
Wind	12.3	16.6	18.8	21.1	26.9	32.9	40.2	44.6	51.0	67.4	5.6
Solar	1.7	3.4	5.3	8.4	12.9	19.2	26.6	33.6	39.6	49.8	4.1
Other renewables	4.3	4.4	4.6	4.7	4.7	4.9	4.9	5.0	5.2	5.9	0.5
Total final consumption, by sector	3,650.8	3,761.0	3,859.2	3,910.1	3,941.8	4,039.5	4,128.1	4,204.0	4,169.8	4,338.0	100.0
Industry	1,679.0	1,712.9	1,760.1	1,745.6	1,721.8	1,746.3	1,796.5	1,836.9	1,823.7	1,882.4	43.4
Transport	598.1	630.5	645.3	681.1	698.7	728.8	749.8	760.0	712.3	763.7	17.6
Residential/Commercial	916.1	938.1	951.4	969.1	995.4	1,031.5	1,047.1	1,061.2	1,078.5	1,134.1	26.1
Oil final consumption, by sector	1,110.0	1,149.9	1,177.0	1,234.7	1,261.7	1,306.6	1,330.3	1,340.1	1,309.9	1,358.7	100.0
Industry	126.6	122.2	118.7	129.6	129.7	128.6	133.8	140.2	148.7	146.0	10.7
Transport	563.4	592.4	602.8	636.3	649.8	675.2	692.3	694.0	642.9	686.8	50.6
Residential/Commercial	118.4	121.7	124.7	130.8	136.3	142.4	140.7	135.3	136.0	143.3	10.5
Natural gas final consumption, by sector	245.9	262.5	268.8	268.5	281.6	306.7	339.8	363.1	375.8	405.6	100.0
Industry	98.6	105.9	108.5	104.6	110.7	126.8	153.6	166.7	174.1	188.8	46.5
Transport	19.0	20.9	23.8	25.5	26.7	28.8	29.2	33.4	34.8	38.6	9.5
Residential/Commercial	81.1	85.0	86.7	89.5	93.3	100.0	105.0	108.8	113.3	122.7	30.2
Refined products consumption	1,105.5	1,146.9	1,171.6	1,229.2	1,256.5	1,303.8	1,327.6	1,336.8	1,306.9	1,355.6	100.0
Gasoline	234.3	255.7	258.3	282.4	294.0	304.4	314.9	324.8	304.5	336.1	24.8
Diesel	409.5	414.4	417.1	427.1	421.7	433.8	435.6	419.5	393.3	407.8	30.1
Heating Oil	37.9	34.3	32.9	32.4	32.4	32.5	29.8	31.1	30.3	36.1	2.7
Aviation Jet	26.4	29.7	32.5	36.0	39.6	43.1	45.9	47.0	34.7	34.5	2.5
LPG	93.5	100.0	106.6	112.0	123.5	131.1	137.7	139.6	142.7	151.0	11.1
Imports	1,636.7	1,679.8	1,709.7	1,781.7	1,890.0	1,991.1	2,057.0	2,089.1	2,019.6	2,037.7	100.0
Oil	1,398.0	1,424.7	1,448.8	1,522.6	1,613.2	1,688.1	1,725.8	1,748.1	1,667.0	1,662.9	81.6
Gas	238.7	255.1	260.8	259.1	276.8	303.0	331.3	341.0	352.6	374.8	18.4
Gasoline	53.3	57.8	57.3	60.6	62.8	62.1	66.3	71.5	71.3	72.8	3.6
Diesel	68.2	67.3	74.9	74.0	83.2	91.6	89.5	91.0	86.9	84.4	4.1
Heating Oil	119.5	124.0	115.7	116.5	114.2	117.4	107.1	99.9	87.5	108.0	5.3
Aviation Jet	20.1	22.0	20.5	21.8	26.1	28.0	26.9	24.1	18.2	10.7	0.5
LPG	43.2	45.0	50.3	56.3	66.4	70.0	73.1	78.3	78.5	79.9	3.9
Exports	472.0	483.6	485.1	513.2	551.1	577.3	568.4	584.9	550.7	555.5	100.0
Oil	372.3	378.7	376.8	398.1	423.0	429.4	414.6	417.6	381.1	384.9	69.3
Gas	99.7	104.9	108.3	115.1	128.1	147.9	153.7	167.3	169.6	170.6	30.7
Gasoline	61.1	59.9	64.8	68.8	71.0	71.1	71.1	76.2	69.3	82.0	14.8
Diesel	99.5	103.8	104.3	108.5	120.5	125.0	128.2	132.1	123.4	125.7	22.6
Heating Oil	58.1	61.4	56.2	56.6	57.4	61.7	57.8	52.1	47.5	51.8	9.3
Aviation Jet	35.7	39.1	40.1	44.3	48.2	50.2	49.6	51.7	33.9	31.2	5.6
LPG	4.2	4.2	4.4	4.1	4.5	4.8	5.4	6.1	6.5	6.4	1.2
CO₂ Emissions (Million tons CO₂)	14,616.1	15,094.8	15,269.2	15,302.2	15,367.2	15,812.5	16,236.5	16,445.3	16,254.4	17,020.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	401.0	391.8	375.7	358.8	339.3	330.5	321.9	312.5	313.2	308.3	-
Final energy intensity (toe/million \$15ppp)	100.2	97.6	95.0	91.2	87.0	84.4	81.9	79.9	80.4	78.6	-
Total energy intensity (toe/million \$15ppp)	144.8	140.6	136.9	130.7	124.6	122.1	120.1	118.5	119.0	117.0	-

*Heat is included

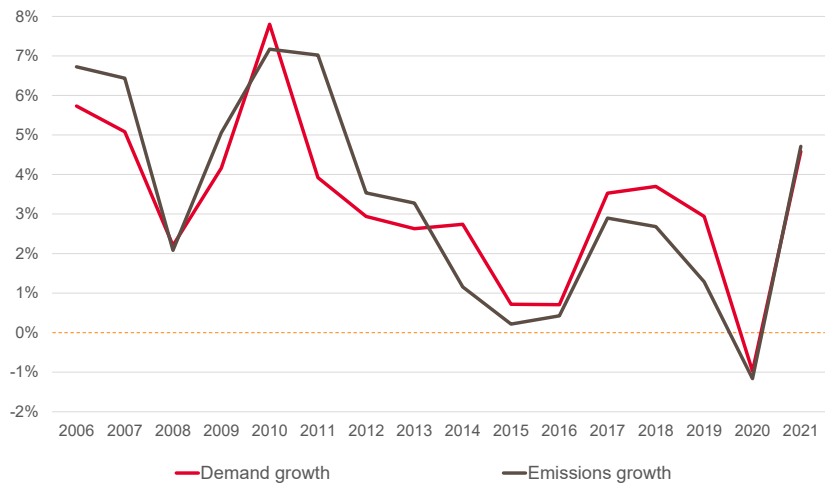
Primary energy demand mix



Electricity generation by source



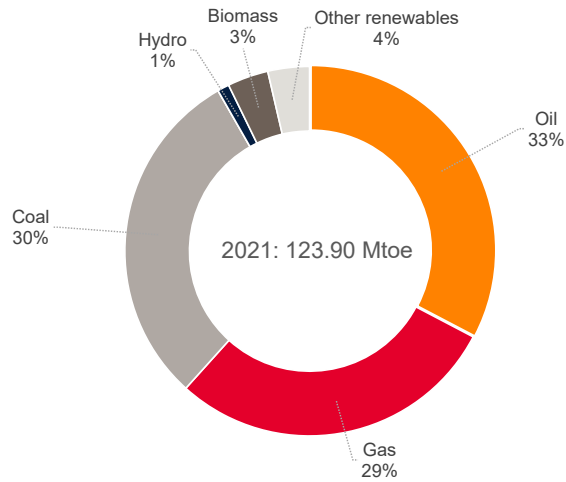
Primary energy demand and CO₂ emissions growth



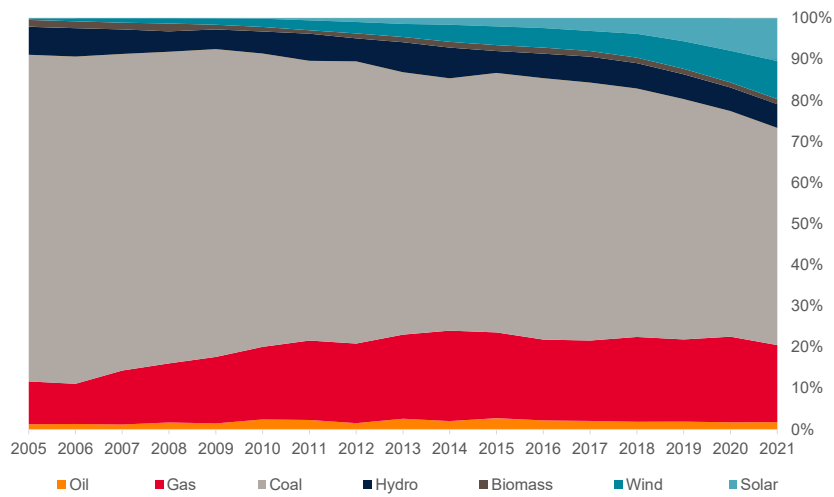
Australia (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	125.6	127.5	126.9	126.7	126.5	127.9	128.7	128.7	127.0	123.9	100.0
Oil	44.1	45.1	44.5	42.5	43.0	42.9	44.1	43.3	40.8	40.3	32.6
Gas	27.5	30.9	32.9	33.1	30.6	31.3	32.6	34.3	37.6	35.8	28.9
Coal	47.0	43.7	41.5	42.9	44.5	44.7	42.9	41.7	38.7	37.1	29.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.6	1.6	1.1	1.3	1.4	1.4	1.3	1.3	1.3	1.0
Biomass	4.7	4.9	4.9	5.2	5.1	5.5	5.2	4.9	4.7	4.4	3.6
Other renewables	0.8	1.0	1.2	1.4	1.6	1.8	2.2	2.8	3.6	4.5	3.6
Electricity balance of trade*	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4
Total final consumption, by source	80.0	81.7	81.7	81.3	82.0	82.5	83.5	82.6	79.7	78.8	100.0
Oil	42.6	43.0	43.1	42.5	43.1	43.7	44.4	44.0	41.1	40.8	51.8
Gas	11.7	12.9	13.2	13.0	12.7	12.5	12.5	12.2	12.6	12.4	15.8
Coal	3.2	3.1	3.1	3.0	3.4	3.6	3.8	3.7	3.4	3.2	4.0
Electricity	18.0	18.0	17.9	18.1	18.2	18.2	18.3	18.4	18.5	18.5	23.5
Heat	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6
Biomass	4.1	4.4	4.2	4.3	4.2	4.3	4.1	3.9	3.7	3.4	4.3
Electricity generation, by source	21.6	21.4	21.3	21.6	22.1	22.2	22.4	22.7	22.8	22.8	100.0
Oil	0.3	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.4	0.4	1.8
Gas	4.2	4.4	4.7	4.5	4.3	4.3	4.6	4.5	4.7	4.3	18.7
Coal	14.8	13.7	13.1	13.6	14.0	13.9	13.6	13.3	12.5	12.1	52.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.6	1.6	1.2	1.3	1.4	1.4	1.4	1.3	1.3	5.7
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.3
Wind	0.6	0.7	0.9	1.0	1.0	1.1	1.3	1.5	1.8	2.1	9.2
Solar	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.4	10.4
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	80.0	81.7	81.7	81.3	82.0	82.5	83.5	82.6	79.7	78.8	100.0
Industry	24.0	24.4	24.1	23.0	22.9	22.8	23.1	22.8	22.8	22.1	28.0
Transport	30.8	31.3	31.4	32.2	32.5	33.1	33.5	33.5	31.8	31.5	40.0
Residential/Commercial	17.5	17.8	17.8	18.3	18.5	18.6	18.8	18.7	18.8	18.8	23.9
Oil final consumption, by sector	42.6	43.0	43.1	42.5	43.1	43.7	44.4	44.0	41.1	40.8	100.0
Industry	4.5	4.6	4.5	3.9	3.6	3.6	3.9	3.9	3.9	4.0	9.7
Transport	30.1	30.6	30.6	31.3	31.7	32.4	32.8	32.7	31.1	30.8	75.3
Residential/Commercial	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.0	2.5
Natural gas final consumption, by sector	11.7	12.9	13.2	13.0	12.7	12.5	12.5	12.2	12.6	12.4	100.0
Industry	6.9	7.1	7.0	6.7	6.4	6.2	6.2	6.1	6.4	6.3	50.4
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
Residential/Commercial	4.1	4.4	4.6	4.7	4.8	4.9	4.9	4.9	5.0	4.9	39.5
Refined products consumption	42.6	43.0	43.1	42.5	43.0	43.6	44.4	44.0	41.0	40.8	100.0
Gasoline	14.8	14.8	14.3	14.4	14.3	14.8	14.6	14.0	12.8	12.9	31.6
Diesel	16.3	17.3	17.8	18.4	18.9	19.6	20.7	21.3	21.6	22.1	54.0
Heating Oil	0.9	0.8	0.6	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.2
Aviation Jet	2.7	2.9	3.0	3.0	3.1	3.0	3.1	2.9	2.3	1.6	3.9
LPG	2.2	2.2	2.2	2.1	2.0	1.7	1.4	1.2	1.2	1.1	2.7
Imports	46.2	49.0	48.6	47.6	48.6	49.7	52.9	52.5	48.8	46.2	100.0
Oil	42.3	44.6	43.9	43.3	43.7	45.3	48.9	48.2	45.1	41.9	90.7
Gas	3.9	4.4	4.7	4.3	4.9	4.4	4.0	4.3	3.7	4.3	9.3
Gasoline	2.9	2.9	2.8	4.3	5.2	5.4	5.0	4.7	4.6	6.0	13.0
Diesel	9.6	10.6	11.4	12.7	15.2	15.7	17.3	17.7	18.9	19.5	42.2
Heating Oil	1.6	1.6	1.3	0.2	0.3	0.2	0.7	0.7	0.6	0.3	0.6
Aviation Jet	1.9	2.7	2.9	3.6	4.7	4.9	5.2	4.9	4.1	2.3	4.9
LPG	0.6	0.5	0.4	0.6	0.5	0.6	0.5	0.5	0.4	0.4	0.8
Exports	39.1	43.0	41.8	44.0	56.8	74.5	85.9	103.0	110.6	107.4	100.0
Oil	17.0	15.5	14.5	14.6	13.4	13.0	13.2	15.0	17.6	16.6	15.4
Gas	22.1	27.5	27.2	29.4	43.4	61.4	72.7	88.0	92.9	90.8	84.6
Gasoline	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.0
Diesel	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
Heating Oil	0.5	0.2	0.0	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0
LPG	1.3	1.5	1.5	1.3	1.2	1.4	1.4	1.8	2.7	2.5	2.3
CO₂ Emissions (Million tons CO₂)	388.0	385.0	375.3	380.8	390.7	394.6	391.7	390.1	378.7	364.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	378.7	366.3	348.2	345.7	345.3	340.8	328.9	320.8	311.4	286.7	-
Final energy intensity (toe/million \$15ppp)	72.6	72.1	70.1	68.8	67.4	66.7	65.5	63.6	62.2	58.7	-
Total energy intensity (toe/million \$15ppp)	122.6	121.3	117.7	115.0	111.8	110.5	108.1	105.9	104.4	97.3	-

*Heat is included

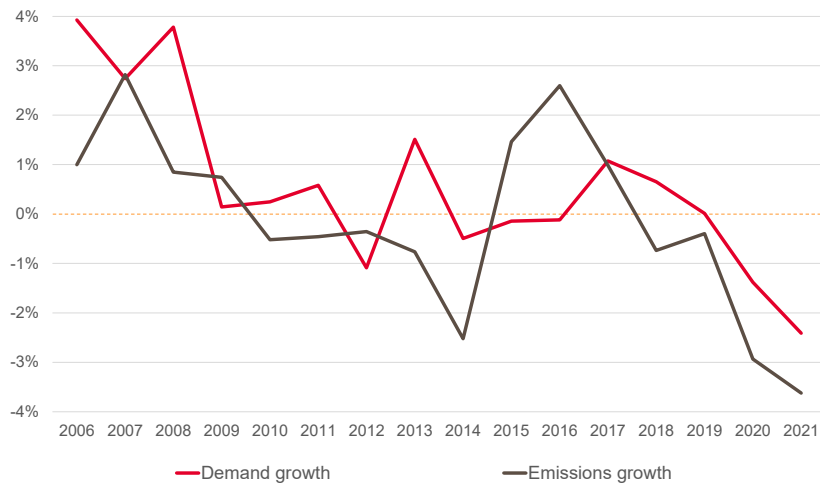
Primary energy demand mix



Electricity generation by source



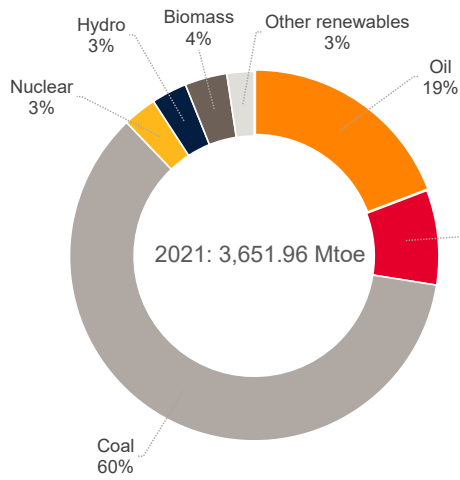
Primary energy demand and CO₂ emissions growth



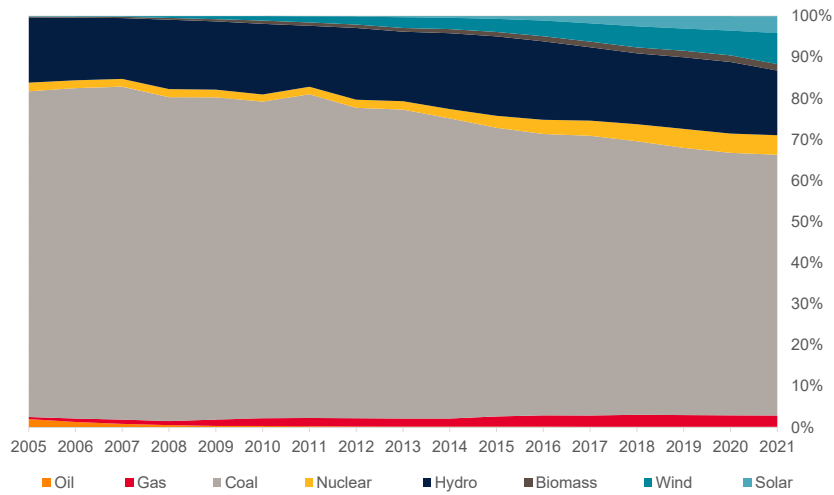
China (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	2,820.7	2,911.7	2,986.2	3,000.9	2,987.2	3,098.4	3,248.4	3,396.4	3,471.4	3,652.0	100.0
Oil	465.3	486.8	508.3	540.7	561.0	591.9	622.3	657.1	678.2	693.4	19.0
Gas	123.5	140.5	153.7	158.6	170.8	195.2	228.6	248.2	266.0	299.3	8.2
Coal	1,985.9	2,025.1	2,041.5	1,999.5	1,929.9	1,958.4	2,013.2	2,069.6	2,082.0	2,177.8	59.6
Nuclear	25.4	29.1	34.5	44.5	55.6	64.6	76.7	90.8	95.4	106.2	2.9
Hydro	74.2	78.2	91.1	95.8	99.2	100.2	103.1	109.4	113.7	112.3	3.1
Biomass	120.1	114.2	114.8	113.6	112.3	116.9	119.8	126.6	129.8	133.0	3.6
Other renewables	8.8	13.5	15.8	19.4	26.1	35.7	46.8	54.5	64.2	86.0	2.4
Electricity balance of trade*	17.5	24.3	26.4	28.7	32.3	35.5	37.9	40.3	42.1	43.9	1.2
Total final consumption, by source	1,931.6	2,007.1	2,074.3	2,092.9	2,099.1	2,122.3	2,175.0	2,218.2	2,280.5	2,366.6	100.0
Oil	408.2	432.7	453.8	484.8	499.2	517.5	533.7	542.5	570.9	590.0	24.9
Gas	88.1	98.8	108.0	108.1	117.0	134.2	162.2	182.4	197.8	224.2	9.5
Coal	885.4	892.3	897.7	877.8	831.4	770.1	718.5	695.7	685.0	655.2	27.7
Electricity	355.0	387.0	415.8	418.9	443.7	484.5	531.3	561.0	578.4	639.2	27.0
Heat	90.2	100.7	105.5	112.9	123.3	132.2	146.4	153.0	162.4	172.5	7.3
Biomass	104.6	95.8	93.5	90.3	84.6	83.6	82.9	83.6	86.0	85.4	3.6
Electricity generation, by source	429.5	468.5	500.3	503.5	533.2	577.5	614.3	645.4	669.2	734.1	100.0
Oil	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.9	1.0	0.1
Gas	8.5	9.2	9.8	12.5	14.7	15.7	17.8	18.3	18.6	20.3	2.8
Coal	324.3	352.0	365.2	363.4	364.8	392.8	408.7	419.3	427.1	465.4	63.4
Nuclear	8.4	9.6	11.4	14.7	18.3	21.3	25.3	30.0	31.5	35.0	4.8
Hydro	75.0	79.1	92.3	97.2	101.8	103.0	105.9	112.2	116.6	115.2	15.7
Biomass	3.5	4.2	4.9	5.5	6.5	8.0	8.9	10.4	10.6	11.6	1.6
Wind	8.3	12.1	13.8	16.0	20.4	25.6	31.5	34.9	40.5	55.3	7.5
Solar	0.5	1.3	2.0	3.4	5.7	10.1	15.2	19.4	23.5	30.3	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	1,931.6	2,007.1	2,074.3	2,092.9	2,099.1	2,122.3	2,175.0	2,218.2	2,280.5	2,366.6	100.0
Industry	1,121.0	1,145.4	1,168.5	1,141.4	1,117.5	1,104.9	1,130.9	1,149.0	1,176.4	1,196.6	50.6
Transport	238.3	257.9	268.8	289.8	297.3	309.7	320.1	323.1	308.1	345.3	14.6
Residential/Commercial	381.2	398.7	410.1	429.3	447.7	472.9	493.4	506.0	526.1	566.6	23.9
Oil final consumption, by sector	408.2	432.7	453.8	484.8	499.2	517.5	533.7	542.5	570.9	590.0	100.0
Industry	52.6	50.5	44.2	48.6	50.7	47.9	57.7	65.1	80.1	73.4	12.4
Transport	219.1	236.3	243.6	262.2	267.2	276.4	284.7	281.3	263.8	296.0	50.2
Residential/Commercial	40.1	42.7	45.9	51.7	54.8	58.1	56.1	52.0	53.5	58.6	9.9
Natural gas final consumption, by sector	88.1	98.8	108.0	108.1	117.0	134.2	162.2	182.4	197.8	224.2	100.0
Industry	32.8	39.2	42.1	40.2	45.7	58.3	81.7	93.9	101.9	115.5	51.5
Transport	10.2	11.9	15.1	16.8	17.9	20.0	20.3	24.5	26.6	30.2	13.4
Residential/Commercial	33.7	36.4	38.7	41.0	43.0	47.2	51.9	55.2	59.8	67.8	30.2
Refined products consumption	407.3	431.2	449.9	481.4	496.1	516.8	533.0	541.9	570.3	589.4	100.0
Gasoline	84.1	96.5	100.7	117.1	122.2	126.6	134.3	140.1	130.5	156.1	26.5
Diesel	168.7	170.8	171.4	173.1	167.7	167.5	163.8	147.8	140.7	147.4	25.0
Heating Oil	10.7	12.2	12.1	11.1	10.3	11.6	10.5	12.9	14.2	17.5	3.0
Aviation Jet	12.3	14.0	15.7	18.0	20.4	23.1	25.3	27.3	23.2	22.8	3.9
LPG	27.4	30.6	35.4	40.5	47.6	53.4	56.3	56.0	58.9	65.7	11.1
Imports	356.3	376.1	401.9	437.7	495.9	556.7	628.2	675.5	712.9	703.6	100.0
Oil	323.0	334.5	354.9	389.1	436.8	482.4	530.8	571.8	604.0	573.1	81.5
Gas	33.3	41.7	46.9	48.7	59.1	74.3	97.4	103.7	108.8	130.5	18.5
Gasoline	0.0	0.0	0.0	0.2	0.2	0.0	0.5	0.3	0.5	0.4	0.1
Diesel	0.9	0.3	0.5	0.4	0.9	0.8	0.7	1.2	1.2	0.8	0.1
Heating Oil	26.8	23.5	17.8	15.4	11.7	13.6	16.7	14.9	12.5	13.6	1.9
Aviation Jet	5.4	5.5	4.0	3.6	3.6	3.8	4.2	2.9	2.6	1.4	0.2
LPG	4.3	5.4	8.9	14.9	20.1	23.1	23.6	25.3	23.6	25.6	3.6
Exports	33.3	36.8	37.2	46.8	59.4	65.2	69.7	76.6	73.3	73.6	100.0
Oil	30.9	34.5	35.0	44.1	56.6	62.2	66.9	73.6	68.7	67.9	92.3
Gas	2.4	2.3	2.2	2.7	2.8	3.0	2.8	3.0	4.7	5.7	7.7
Gasoline	3.0	4.8	5.2	6.1	10.0	10.8	13.3	16.9	16.5	15.0	20.4
Diesel	1.9	2.8	4.2	7.3	15.7	17.5	18.9	21.8	20.2	17.6	23.9
Heating Oil	11.6	11.3	9.5	10.5	9.9	11.1	12.3	11.2	15.8	19.6	26.6
Aviation Jet	7.7	9.5	11.0	12.7	13.5	13.5	15.1	18.1	10.3	8.8	12.0
LPG	1.5	1.5	1.7	1.7	1.6	1.6	1.4	1.7	1.1	1.2	1.6
CO₂ Emissions (Million tons CO₂)	8,752.6	9,167.6	9,155.4	9,117.6	9,100.4	9,284.1	9,534.1	9,662.5	9,786.0	10,397.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	609.5	592.3	550.7	512.3	478.6	456.5	439.2	420.1	415.7	408.7	-
Final energy intensity (toe/million \$15ppp)	125.5	120.7	115.1	108.3	101.6	96.1	92.5	88.7	88.0	85.3	-
Total energy intensity (toe/million \$15ppp)	196.4	188.1	179.6	168.6	157.1	152.4	149.6	147.7	147.5	143.5	-

*Heat is included

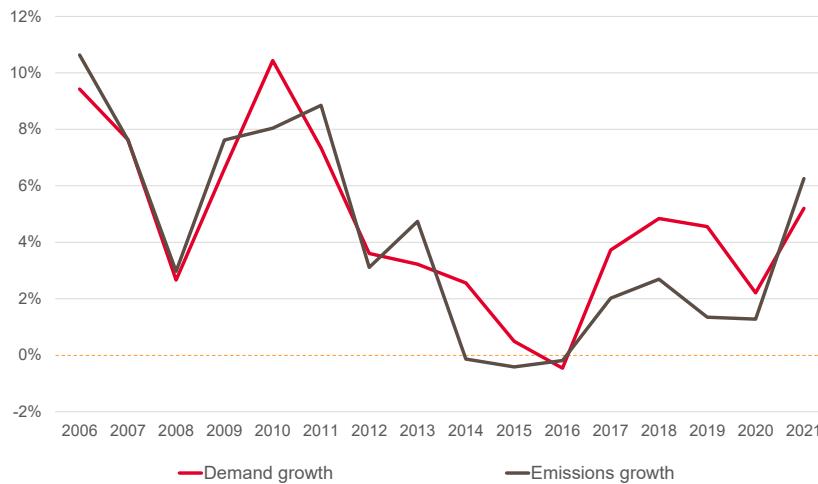
Primary energy demand mix



Electricity generation by source



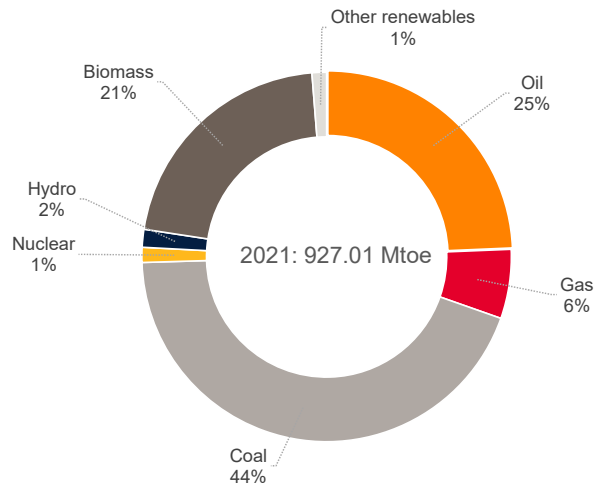
Primary energy demand and CO₂ emissions growth



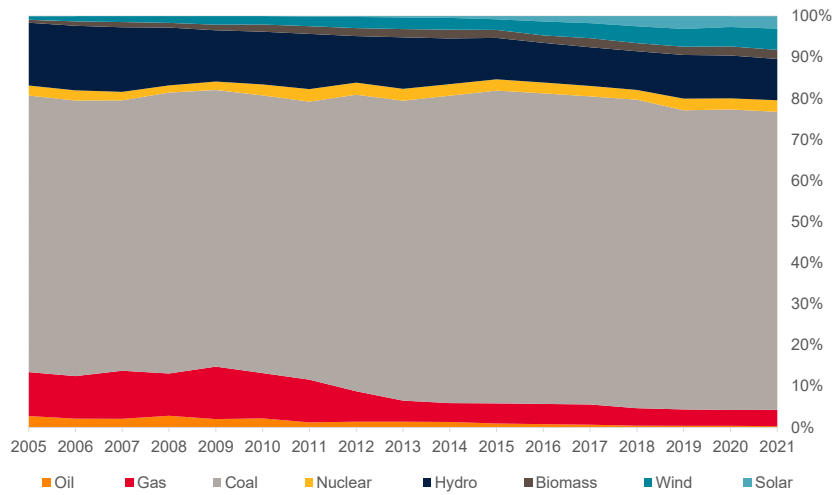
India (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	732.4	753.0	803.9	823.7	840.1	882.7	926.8	937.9	885.4	927.0	100.0
Oil	177.2	176.4	184.3	206.4	216.7	223.0	235.3	235.5	213.8	225.3	24.3
Gas	48.9	44.4	44.0	45.1	48.0	51.0	52.4	55.5	52.7	56.2	6.1
Coal	326.5	345.0	384.1	376.9	371.2	394.0	417.0	417.9	389.5	408.6	44.1
Nuclear	8.6	8.9	9.4	9.8	9.9	10.0	9.9	12.1	11.2	12.2	1.3
Hydro	10.9	12.8	12.3	11.7	11.8	12.2	13.0	14.8	14.3	14.4	1.6
Biomass	156.8	161.6	165.5	169.1	176.1	184.9	189.5	191.0	192.8	197.5	21.3
Other renewables	2.8	3.2	3.6	3.9	5.8	7.0	9.1	10.4	10.1	11.8	1.3
Electricity balance of trade*	0.9	0.8	0.6	0.7	0.6	0.7	0.7	0.8	1.1	1.0	0.1
Total final consumption, by source	489.8	508.0	533.3	557.1	576.9	607.8	629.3	644.6	603.1	639.6	100.0
Oil	153.5	154.7	161.7	179.6	188.6	199.6	206.8	208.0	189.0	199.4	31.2
Gas	25.0	26.1	25.9	27.7	29.6	30.4	31.0	33.5	31.7	33.8	5.3
Coal	98.7	107.2	113.7	108.8	109.4	118.4	119.5	122.4	103.3	118.4	18.5
Electricity	70.9	74.2	83.0	87.5	93.1	98.4	105.6	112.8	110.8	116.1	18.2
Heat	0.5	0.4	0.6	0.7	0.7	0.8	1.0	1.1	1.1	1.2	0.2
Biomass	141.1	145.4	148.5	152.8	155.5	160.2	165.4	166.8	167.0	170.7	26.7
Electricity generation, by source	95.9	101.9	110.9	116.7	123.1	129.8	138.3	139.6	136.9	143.5	100.0
Oil	1.3	1.4	1.4	1.1	0.9	0.8	0.6	0.5	0.5	0.4	0.3
Gas	7.1	5.2	5.1	5.7	6.1	6.4	5.9	5.6	5.3	5.7	4.0
Coal	69.2	74.3	82.9	88.8	93.0	97.2	103.8	101.5	100.1	104.0	72.5
Nuclear	2.8	2.9	3.1	3.2	3.3	3.3	3.3	4.0	3.7	4.0	2.8
Hydro	10.9	12.8	12.3	11.7	11.8	12.2	13.0	14.8	14.3	14.4	10.0
Biomass	1.9	2.0	2.4	2.3	2.3	2.9	2.8	2.8	3.0	3.2	2.2
Wind	2.6	2.9	3.1	3.0	4.2	4.7	5.7	6.0	6.5	7.4	5.1
Solar	0.2	0.4	0.5	0.9	1.6	2.2	3.4	4.3	3.6	4.4	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	489.8	508.0	533.3	557.1	576.9	607.8	629.3	644.6	603.1	639.6	100.0
Industry	176.0	190.4	205.5	210.4	220.4	237.8	245.3	253.2	232.3	251.6	39.3
Transport	74.2	75.9	79.4	87.0	90.6	98.5	103.5	104.6	92.4	95.8	15.0
Residential/Commercial	162.5	165.3	170.0	175.1	179.3	182.5	185.8	190.3	189.4	196.0	30.6
Oil final consumption, by sector	153.5	154.7	161.7	179.6	188.6	199.6	206.8	208.0	189.0	199.4	100.0
Industry	16.5	16.5	18.9	23.7	27.8	29.1	26.0	26.2	23.5	25.6	12.8
Transport	71.1	72.7	75.8	83.0	86.7	93.7	98.1	98.9	86.8	90.0	45.1
Residential/Commercial	24.5	25.0	26.7	28.2	29.0	29.4	30.8	31.5	32.7	33.5	16.8
Natural gas final consumption, by sector	25.0	26.1	25.9	27.7	29.6	30.4	31.0	33.5	31.7	33.8	100.0
Industry	3.2	3.2	3.3	3.3	4.5	5.4	5.7	6.3	5.9	6.3	18.7
Transport	1.6	1.7	1.8	2.0	2.2	2.4	2.8	3.0	2.8	3.0	8.8
Residential/Commercial	2.0	2.0	1.8	1.8	2.5	2.9	3.1	3.7	3.5	3.8	11.1
Refined products consumption	153.5	154.7	161.7	179.6	188.6	199.6	206.8	208.0	189.0	199.4	100.0
Gasoline	16.8	18.3	20.4	23.4	25.4	28.0	30.3	32.1	29.9	30.8	15.5
Diesel	68.8	67.9	69.0	73.6	75.0	80.1	82.5	81.6	71.6	73.2	36.7
Heating Oil	6.4	5.2	5.1	5.9	6.5	6.2	6.0	5.7	5.1	6.2	3.1
Aviation Jet	2.4	2.6	2.8	3.1	3.6	4.1	4.4	4.3	2.0	2.9	1.4
LPG	17.6	18.4	20.3	22.2	24.4	26.4	28.1	29.7	31.1	31.9	16.0
Imports	220.9	225.5	231.1	254.7	275.2	283.7	290.2	305.2	273.7	285.4	100.0
Oil	205.3	210.1	214.5	235.7	253.1	259.2	264.6	275.1	243.5	256.2	89.8
Gas	15.6	15.4	16.6	19.0	22.1	24.4	25.5	30.1	30.2	29.2	10.2
Gasoline	0.2	0.3	0.4	1.1	0.5	0.2	0.7	2.3	1.4	0.9	0.3
Diesel	0.5	0.1	0.1	0.2	1.0	1.4	0.6	2.9	0.7	0.1	0.0
Heating Oil	1.0	1.3	0.9	1.1	0.9	1.2	1.4	4.4	6.2	9.0	3.2
Aviation Jet	0.0	0.0	0.1	0.3	0.4	0.3	0.3	0.1	0.0	0.0	0.0
LPG	7.1	7.4	9.4	10.1	12.5	12.9	15.0	16.7	18.6	19.4	6.8
Exports	67.3	71.7	68.6	65.2	70.6	71.9	65.2	71.0	61.3	68.2	100.0
Oil	67.3	71.7	68.6	65.2	70.6	71.9	65.2	71.0	61.3	68.2	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	17.8	16.3	17.2	18.0	16.5	15.0	13.8	13.6	12.4	15.9	23.3
Diesel	23.2	27.4	26.4	24.9	28.4	30.8	28.9	32.7	31.6	36.8	54.0
Heating Oil	5.7	5.9	4.6	2.7	2.2	2.4	2.1	1.5	1.1	2.1	3.1
Aviation Jet	5.0	6.1	5.9	6.1	7.7	7.7	7.9	7.4	3.8	4.8	7.0
LPG	0.2	0.3	0.3	0.2	0.4	0.4	0.5	0.5	0.5	0.7	1.0
CO₂ Emissions (Million tons CO₂)	1,809.9	1,859.3	2,024.3	2,034.6	2,058.7	2,187.7	2,296.7	2,294.6	2,141.3	2,250.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	312.0	301.2	305.3	284.2	265.6	264.3	260.4	250.1	251.6	242.8	-
Final energy intensity (toe/million \$15ppp)	76.7	75.0	73.7	70.8	68.0	67.3	65.1	64.2	64.8	62.9	-
Total energy intensity (toe/million \$15ppp)	126.2	122.0	121.3	115.0	108.4	106.6	105.1	102.2	104.0	100.0	-

*Heat is included

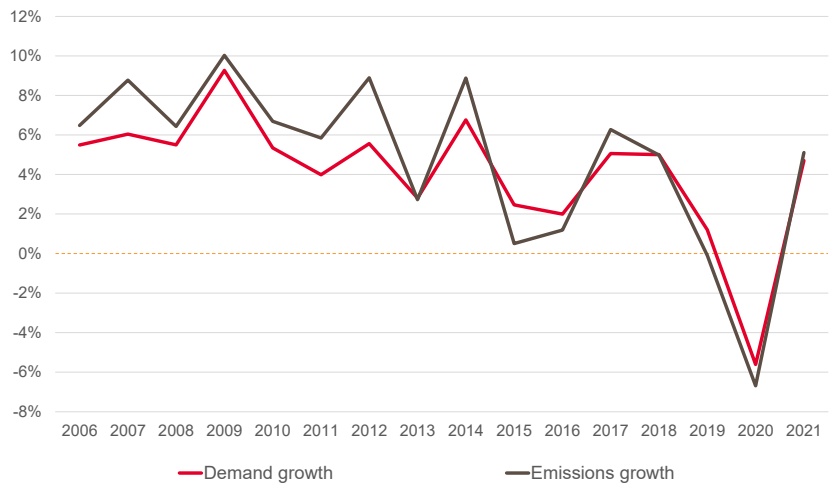
Primary energy demand mix



Electricity generation by source



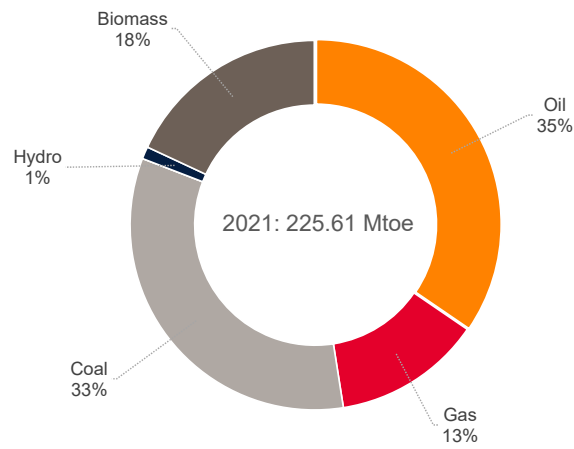
Primary energy demand and CO₂ emissions growth



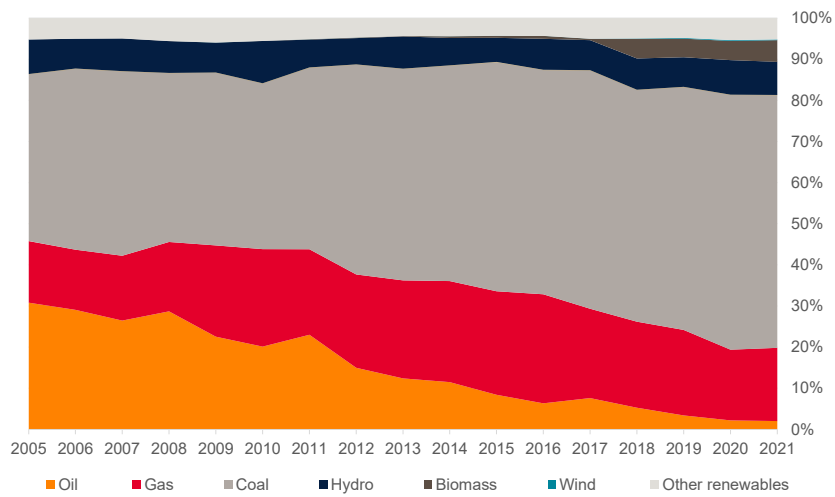
Indonesia (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	204.1	197.2	205.5	204.4	209.7	221.2	231.6	241.0	216.1	225.6	100.0
Oil	72.4	74.0	74.7	71.2	70.2	74.6	77.7	75.4	65.2	68.5	30.3
Gas	35.0	36.5	36.6	37.9	39.1	38.7	38.9	39.2	25.9	25.7	11.4
Coal	37.5	28.5	36.1	39.7	43.3	48.4	55.6	68.8	65.5	66.1	29.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.5	1.3	1.2	1.6	1.6	1.9	1.8	2.1	2.1	0.9
Biomass	42.0	40.5	39.6	37.2	37.1	35.8	33.4	31.4	30.4	35.7	15.8
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Electricity balance of trade*	16.2	16.2	17.3	17.3	18.4	22.0	24.2	24.4	26.9	27.4	12.2
Total final consumption, by source	158.8	148.8	150.6	148.6	142.2	147.8	153.2	160.5	143.6	146.6	100.0
Oil	72.0	71.0	71.4	70.0	64.5	68.3	73.0	71.8	63.1	65.3	44.5
Gas	17.3	17.3	17.1	17.0	14.0	14.7	16.7	16.5	16.8	15.9	10.9
Coal	13.4	4.6	6.5	8.3	9.5	11.1	14.7	24.5	16.6	13.5	9.2
Electricity	15.0	16.1	17.1	17.4	18.6	19.2	22.0	22.3	22.1	23.3	15.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	41.1	39.7	38.5	35.9	35.7	34.4	26.8	25.3	24.9	28.6	19.5
Electricity generation, by source	17.2	18.6	19.6	20.1	21.3	21.9	24.4	25.4	25.1	26.6	100.0
Oil	2.6	2.3	2.2	1.7	1.4	1.7	1.3	0.9	0.5	0.5	2.0
Gas	3.9	4.4	4.8	5.1	5.7	4.8	5.1	5.3	4.3	4.7	17.8
Coal	8.8	9.6	10.3	11.2	11.6	12.7	13.8	15.0	15.6	16.3	61.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.5	1.3	1.2	1.6	1.6	1.9	1.8	2.1	2.1	8.0
Biomass	0.0	0.0	0.1	0.1	0.2	0.1	1.2	1.2	1.2	1.4	5.3
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.8	0.8	0.9	0.9	0.9	1.1	1.2	1.2	1.3	1.4	5.1
Total final consumption, by sector	158.8	148.8	150.6	148.6	142.2	147.8	153.2	160.5	143.6	146.6	100.0
Industry	48.9	39.3	42.1	45.2	38.9	43.3	49.5	58.1	49.2	48.9	33.3
Transport	43.8	46.3	47.0	44.8	45.1	47.1	53.2	54.8	48.4	52.1	35.5
Residential/Commercial	51.8	51.2	50.4	49.1	48.4	48.0	40.8	37.9	37.1	38.7	26.4
Oil final consumption, by sector	72.0	71.0	71.4	70.0	64.5	68.3	73.0	71.8	63.1	65.3	100.0
Industry	11.1	9.5	10.5	12.2	7.3	8.1	7.3	6.3	5.8	6.6	10.2
Transport	43.3	45.5	45.7	44.2	43.0	45.3	50.5	50.2	42.4	44.8	68.7
Residential/Commercial	7.7	8.2	8.4	8.3	8.4	9.0	9.3	9.3	9.6	10.3	15.7
Natural gas final consumption, by sector	17.3	17.3	17.1	17.0	14.0	14.7	16.7	16.5	16.8	15.9	100.0
Industry	13.0	13.1	12.9	12.7	9.8	11.3	13.1	13.0	13.3	12.6	79.0
Transport	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.1	0.1	0.8
Refined products consumption	69.4	70.0	70.3	68.9	63.2	67.1	71.7	69.8	61.3	63.5	100.0
Gasoline	22.4	24.1	24.4	24.9	25.7	26.5	27.2	28.2	24.6	26.5	41.7
Diesel	29.8	29.7	28.5	26.6	20.8	21.5	24.3	22.2	19.1	20.7	32.6
Heating Oil	3.1	1.8	1.7	1.5	1.8	1.9	2.0	1.6	1.3	1.4	2.2
Aviation Jet	2.0	2.2	2.2	2.3	2.6	2.9	3.2	2.8	1.5	1.1	1.8
LPG	5.7	6.3	6.9	7.2	7.5	8.1	8.5	8.8	9.2	9.8	15.5
Imports	48.6	53.1	55.4	52.2	49.8	54.3	51.3	42.9	38.4	44.6	100.0
Oil	48.6	53.1	55.4	52.2	49.8	54.3	51.3	42.9	38.4	44.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	14.1	14.7	15.4	14.7	13.3	13.9	14.8	15.1	12.8	14.3	32.0
Diesel	10.9	10.4	10.0	6.1	4.3	6.1	5.7	3.4	2.8	2.8	6.3
Heating Oil	0.4	0.1	0.2	0.4	0.5	0.4	0.8	0.3	0.2	0.2	0.4
Aviation Jet	0.6	0.8	0.8	1.0	0.9	1.5	1.3	0.2	0.0	0.0	0.0
LPG	2.9	3.7	4.1	4.8	5.1	6.2	6.3	6.5	7.2	7.2	16.0
Exports	52.1	50.6	49.1	47.3	46.4	42.0	37.6	26.3	26.4	25.6	100.0
Oil	19.8	20.4	20.0	19.7	20.9	18.2	13.9	7.4	9.3	8.5	33.2
Gas	32.3	30.2	29.1	27.6	25.5	23.8	23.7	18.9	17.1	17.1	66.8
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Heating Oil	3.8	4.2	4.3	3.8	3.9	4.3	3.6	3.8	4.5	2.4	9.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.6
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	467.9	428.4	463.7	469.4	459.9	491.2	549.6	597.1	519.0	536.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	205.4	178.2	183.7	177.3	165.4	168.1	178.9	185.0	164.2	163.8	-
Final energy intensity (toe/million \$15ppp)	65.2	58.4	56.6	53.5	48.5	48.1	47.3	47.2	43.0	43.1	-
Total energy intensity (toe/million \$15ppp)	89.6	82.0	81.4	77.2	75.4	75.7	75.4	74.7	68.4	68.8	-

*Heat is included

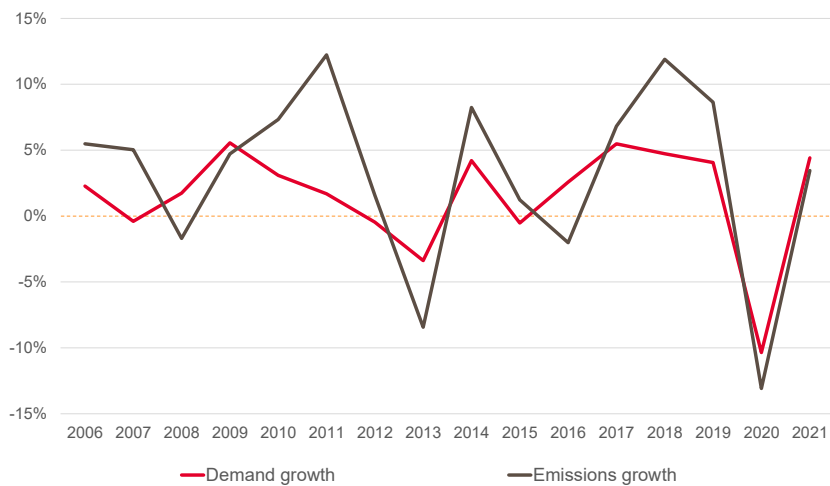
Primary energy demand mix



Electricity generation by source



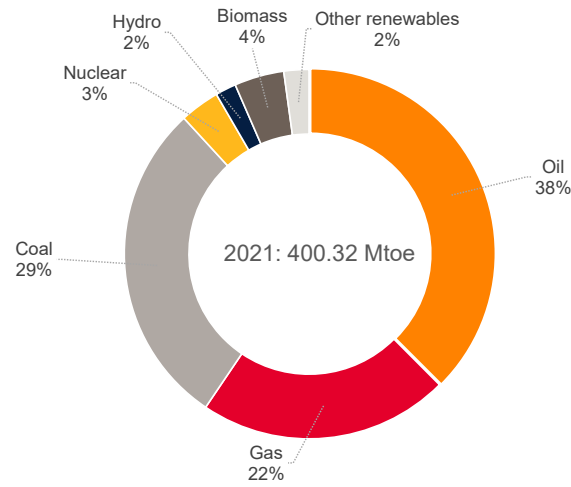
Primary energy demand and CO₂ emissions growth



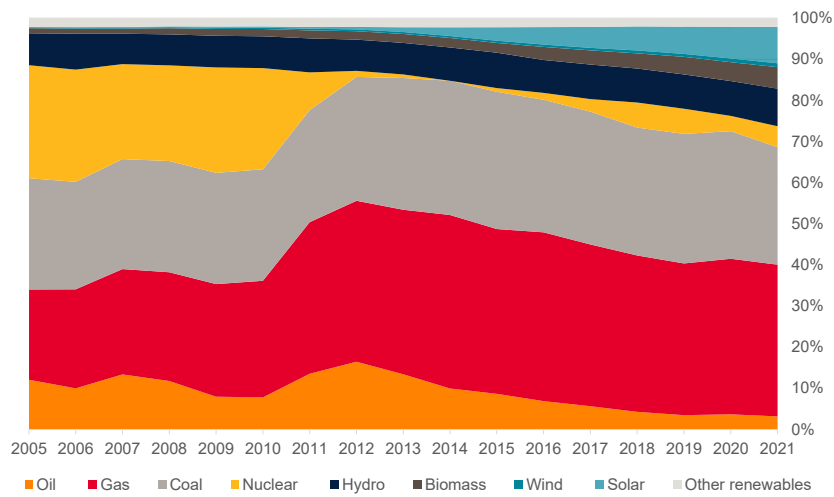
Japan (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	454.9	456.4	442.4	435.5	431.5	436.6	430.8	417.4	386.4	400.3	100.0
Oil	208.5	200.9	190.6	184.3	177.7	176.8	166.8	159.7	143.5	148.6	37.1
Gas	105.0	105.1	106.6	100.2	101.7	100.9	97.4	92.1	92.2	86.9	21.7
Coal	113.5	122.5	118.8	120.5	118.6	119.0	117.1	115.4	106.0	113.7	28.4
Nuclear	4.2	2.4	0.0	2.5	4.7	8.6	16.9	16.6	10.1	13.8	3.4
Hydro	6.6	6.8	7.2	7.5	6.8	7.2	7.0	6.8	6.8	7.2	1.8
Biomass	11.7	12.5	12.3	12.7	13.3	14.6	15.5	15.7	15.7	17.2	4.3
Other renewables	1.0	1.6	2.4	3.5	4.5	5.3	6.0	6.6	7.6	8.7	2.2
Electricity balance of trade*	4.5	4.6	4.5	4.4	4.3	4.3	4.1	4.4	4.5	4.2	1.0
Total final consumption, by source	323.4	326.5	317.3	313.1	308.2	311.3	303.8	297.8	280.2	291.2	100.0
Oil	160.0	161.5	155.2	154.1	150.1	150.6	146.0	142.7	133.2	136.4	46.8
Gas	28.2	28.6	28.2	28.5	28.1	29.3	28.9	28.8	27.9	27.0	9.3
Coal	43.1	44.1	43.3	41.9	41.2	41.3	40.5	39.5	34.3	43.7	15.0
Electricity	85.3	85.1	83.7	81.7	81.8	83.0	81.3	79.8	78.5	77.6	26.6
Heat	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.3
Biomass	5.9	6.2	5.9	6.0	6.1	6.3	6.3	6.2	5.5	5.7	2.0
Electricity generation, by source	94.5	95.0	92.5	91.0	92.1	93.0	91.9	89.9	89.2	88.6	100.0
Oil	15.5	12.7	9.2	7.9	6.3	5.2	3.9	3.1	3.3	2.8	3.2
Gas	37.0	38.0	39.0	36.5	37.8	36.6	34.9	33.2	33.8	32.7	36.9
Coal	28.5	30.4	30.2	30.4	29.7	30.0	28.6	28.3	27.7	25.3	28.6
Nuclear	1.4	0.8	0.0	0.8	1.6	2.8	5.6	5.5	3.3	4.6	5.1
Hydro	7.2	7.3	7.5	7.8	7.4	7.8	7.6	7.5	7.5	8.1	9.1
Biomass	1.9	2.1	2.1	2.2	2.9	3.2	3.4	3.8	4.1	4.6	5.2
Wind	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9
Solar	0.6	1.1	2.0	3.0	3.9	4.7	5.4	5.9	6.8	7.9	8.9
Other renewables	2.0	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.1
Total final consumption, by sector	323.4	326.5	317.3	313.1	308.2	311.3	303.8	297.8	280.2	291.2	100.0
Industry	102.9	103.3	100.7	96.9	96.3	96.1	96.4	93.9	87.1	95.9	32.9
Transport	76.0	75.8	74.0	74.0	73.0	72.2	71.2	70.1	63.8	64.4	22.1
Residential/Commercial	98.2	99.3	96.4	93.4	92.5	95.6	92.3	90.2	87.3	86.9	29.9
Oil final consumption, by sector	160.0	161.5	155.2	154.1	150.1	150.6	146.0	142.7	133.2	136.4	100.0
Industry	15.8	14.9	14.1	12.6	12.4	11.8	12.1	11.3	10.9	11.4	8.4
Transport	74.2	74.0	72.1	72.1	71.0	70.3	69.2	68.1	61.9	62.4	45.8
Residential/Commercial	25.9	26.7	24.8	22.7	22.3	23.1	22.7	21.5	20.1	20.6	15.1
Natural gas final consumption, by sector	28.2	28.6	28.2	28.5	28.1	29.3	28.9	28.8	27.9	27.0	100.0
Industry	10.9	10.7	10.4	10.4	10.7	10.7	11.3	11.0	10.5	10.0	37.0
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	16.8	17.5	17.5	17.8	17.1	18.3	17.3	17.5	17.0	16.7	61.7
Refined products consumption	159.6	161.2	154.9	153.8	150.0	150.3	145.9	142.6	133.1	136.3	100.0
Gasoline	44.0	43.1	41.1	41.1	40.6	39.9	39.0	37.8	34.9	34.3	25.2
Diesel	39.4	40.0	38.7	38.4	38.0	38.1	37.9	37.0	35.5	35.7	26.2
Heating Oil	6.1	5.6	5.2	4.5	4.7	4.7	4.4	4.6	3.7	4.9	3.6
Aviation Jet	3.3	4.2	4.4	4.5	4.4	4.3	4.1	4.3	2.3	2.8	2.0
LPG	14.0	14.5	14.1	12.5	11.8	11.6	12.5	11.9	11.7	12.1	8.9
Imports	334.6	329.8	317.4	309.4	304.3	302.5	291.1	280.0	250.0	255.7	100.0
Oil	232.9	227.1	213.1	211.6	205.1	204.3	196.4	190.0	160.2	171.7	67.1
Gas	101.7	102.7	104.3	97.8	99.2	98.2	94.7	90.0	89.8	84.0	32.9
Gasoline	2.3	1.3	1.2	1.3	0.7	1.0	1.7	1.9	2.4	2.2	0.9
Diesel	0.6	0.3	0.6	0.5	0.4	0.5	0.6	0.8	1.3	1.6	0.6
Heating Oil	8.7	6.4	4.4	3.2	2.3	2.2	1.8	0.5	0.6	1.3	0.5
Aviation Jet	1.3	0.8	0.5	0.7	0.7	1.3	1.3	0.2	0.1	0.1	0.0
LPG	15.1	13.7	13.3	12.4	12.0	12.2	12.1	11.9	11.3	11.4	4.4
Exports	13.0	17.0	15.8	18.5	18.5	17.7	17.7	19.1	10.7	13.7	100.0
Oil	13.0	17.0	15.8	18.5	18.5	17.7	17.7	19.1	10.7	13.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.9	1.4	2.4	3.1	2.4	3.0	2.6	2.4	1.9	3.1	22.9
Diesel	6.1	9.2	7.8	8.8	8.3	8.7	8.0	9.2	3.5	5.4	39.5
Heating Oil	2.7	1.9	1.7	2.2	3.1	2.5	2.8	3.0	2.6	2.8	20.7
Aviation Jet	2.3	2.9	2.4	2.8	2.9	2.2	2.7	2.6	0.9	1.4	10.3
LPG	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
CO₂ Emissions (Million tons CO₂)	1,204.0	1,217.0	1,172.3	1,137.6	1,126.1	1,111.9	1,074.5	1,041.0	1,005.6	1,013.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	240.6	238.4	229.0	218.8	214.9	208.7	200.6	193.8	196.2	194.6	-
Final energy intensity (toe/million \$15ppp)	56.4	55.5	53.9	51.9	51.1	50.5	49.3	48.1	47.3	48.3	-
Total energy intensity (toe/million \$15ppp)	90.9	89.4	86.4	83.8	82.4	82.0	80.4	77.7	75.4	76.9	-

*Heat is included

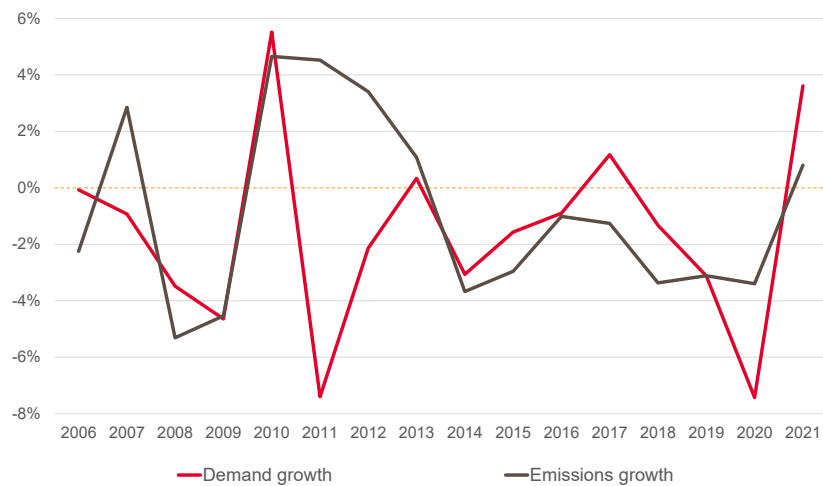
Primary energy demand mix



Electricity generation by source



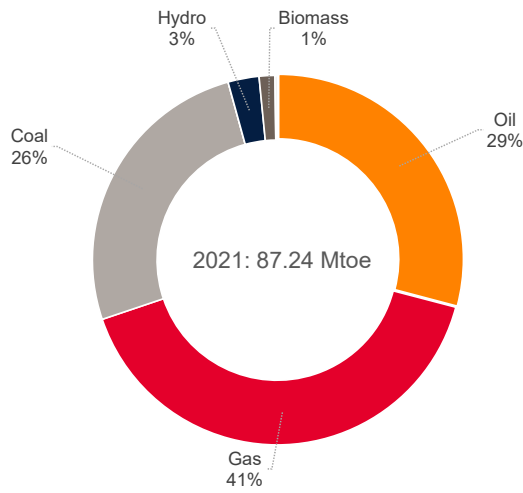
Primary energy demand and CO₂ emissions growth



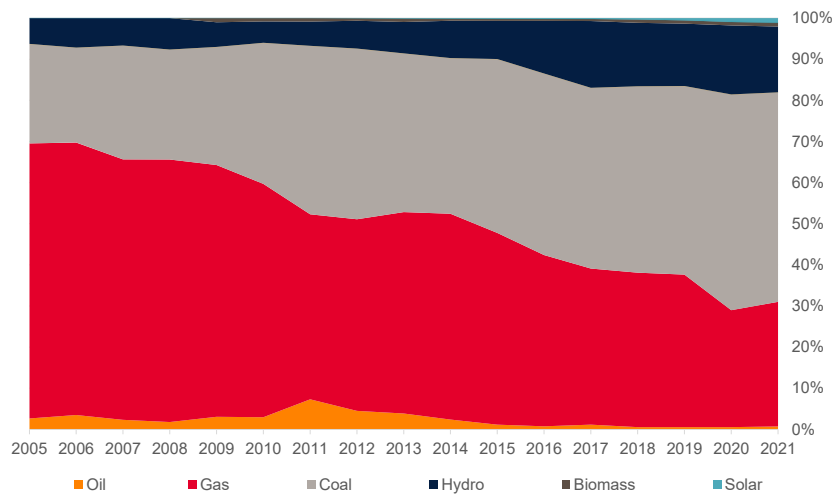
Malaysia (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	77.5	87.2	88.9	85.0	88.4	92.2	94.0	92.5	87.9	87.2	100.0
Oil	27.8	32.1	33.5	28.1	31.4	29.5	29.5	27.4	23.7	25.4	29.1
Gas	32.4	38.1	38.4	37.5	35.8	39.2	38.8	39.5	37.1	35.5	40.7
Coal	15.8	15.3	15.3	17.5	18.8	20.7	22.6	22.4	23.5	22.6	25.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.8	0.9	1.2	1.2	1.7	2.3	2.3	2.3	2.4	2.4	2.7
Biomass	0.7	0.8	0.7	0.7	0.7	0.6	0.9	0.8	1.0	1.2	1.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
Electricity balance of trade*	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0
Total final consumption, by source	46.6	52.8	52.0	50.7	55.2	60.1	62.5	65.0	62.8	65.2	100.0
Oil	24.1	28.1	29.3	27.5	28.3	28.5	28.3	29.5	26.8	30.0	46.0
Gas	10.2	12.0	9.6	9.6	12.3	16.8	18.9	19.7	20.4	19.3	29.6
Coal	1.7	1.5	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.1	3.1
Electricity	10.4	11.0	11.0	11.4	12.4	12.6	13.2	13.6	13.0	13.3	20.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.7	1.0
Electricity generation, by source	11.6	11.9	12.7	12.9	13.5	14.1	14.7	15.1	14.6	14.8	100.0
Oil	0.5	0.5	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.7
Gas	5.4	5.8	6.3	6.0	5.6	5.3	5.5	5.6	4.2	4.5	30.3
Coal	4.8	4.6	4.8	5.5	5.9	6.2	6.6	6.9	7.7	7.5	50.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.8	0.9	1.2	1.2	1.7	2.3	2.3	2.3	2.4	2.4	16.0
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	0.1	0.1	0.2	1.1
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	46.6	52.8	52.0	50.7	55.2	60.1	62.5	65.0	62.8	65.2	100.0
Industry	15.6	15.0	14.8	15.0	16.2	17.6	19.4	20.2	19.6	19.6	30.0
Transport	15.3	20.1	22.5	21.2	21.7	21.6	21.1	21.9	19.9	22.6	34.6
Residential/Commercial	7.2	7.5	7.5	7.6	8.1	7.8	7.8	8.0	8.0	8.2	12.6
Oil final consumption, by sector	24.1	28.1	29.3	27.5	28.3	28.5	28.3	29.5	26.8	30.0	100.0
Industry	4.4	3.8	3.1	3.2	2.6	2.8	2.8	2.9	2.4	2.8	9.3
Transport	14.9	19.6	21.9	20.5	21.1	21.0	20.5	21.4	19.2	21.8	72.6
Residential/Commercial	1.6	1.7	1.5	1.5	1.5	1.4	1.2	1.3	1.3	1.3	4.3
Natural gas final consumption, by sector	10.2	12.0	9.6	9.6	12.3	16.8	18.9	19.7	20.4	19.3	100.0
Industry	4.6	4.5	4.9	4.8	6.0	6.8	8.3	8.6	8.9	8.4	43.8
Transport	0.3	0.3	0.3	0.3	0.2	0.1	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	24.1	28.1	29.3	27.5	28.3	28.5	28.3	29.5	26.8	30.0	100.0
Gasoline	8.9	12.7	12.7	12.8	13.4	13.4	13.0	13.6	13.3	14.1	47.0
Diesel	8.8	9.6	10.6	9.4	9.3	9.4	9.8	10.2	8.0	10.6	35.2
Heating Oil	0.8	0.3	0.3	0.7	0.5	0.6	0.4	0.4	0.3	0.1	0.5
Aviation Jet	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.6	0.3	0.2	0.6
LPG	2.9	2.9	2.6	2.3	3.5	3.5	3.3	3.4	3.6	3.6	12.0
Imports	30.8	37.1	37.8	30.5	33.1	30.5	36.0	33.1	35.3	26.4	100.0
Oil	22.9	28.6	29.3	22.7	26.2	23.5	29.0	25.6	27.0	22.0	83.2
Gas	7.9	8.5	8.5	7.8	6.8	7.0	7.0	7.4	8.3	4.4	16.8
Gasoline	5.9	8.8	8.3	7.6	8.6	5.1	10.6	8.0	9.1	9.0	34.2
Diesel	3.5	5.1	6.2	4.6	3.9	5.2	6.9	5.3	4.7	4.8	18.3
Heating Oil	0.8	3.0	3.1	1.0	0.1	0.2	0.1	0.1	0.2	0.1	0.5
Aviation Jet	0.3	0.9	0.5	0.6	1.4	1.2	0.5	0.8	1.8	1.3	4.8
LPG	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.6	0.6	2.2
Exports	53.0	51.4	52.5	54.5	57.2	56.9	58.4	55.9	58.0	56.1	100.0
Oil	26.1	22.8	23.5	26.3	28.9	26.0	31.0	27.2	30.7	27.5	48.9
Gas	26.9	28.6	29.0	28.1	28.3	30.9	27.3	28.7	27.3	28.7	51.1
Gasoline	2.1	0.1	0.0	0.4	0.5	0.3	3.1	0.9	1.4	1.9	3.5
Diesel	5.3	5.3	5.3	5.4	4.8	5.1	7.2	5.6	5.9	5.3	9.5
Heating Oil	1.0	3.0	4.3	1.4	0.6	0.6	1.4	1.7	1.8	1.9	3.3
Aviation Jet	1.0	0.6	0.5	0.5	1.1	1.3	0.8	0.9	2.4	2.4	4.2
LPG	0.4	0.3	0.3	0.3	0.4	0.2	0.5	0.3	0.3	0.5	0.8
CO₂ Emissions (Million tons CO₂)	202.5	221.3	228.3	228.2	227.5	243.2	246.1	255.5	246.8	254.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	314.6	328.4	319.6	304.0	290.1	293.1	282.9	281.3	287.9	287.3	-
Final energy intensity (toe/million \$15ppp)	60.8	64.7	64.1	59.6	59.2	57.4	56.6	56.4	56.4	58.2	-
Total energy intensity (toe/million \$15ppp)	120.3	129.5	124.5	113.3	112.7	111.2	108.1	101.8	102.5	98.7	-

*Heat is included

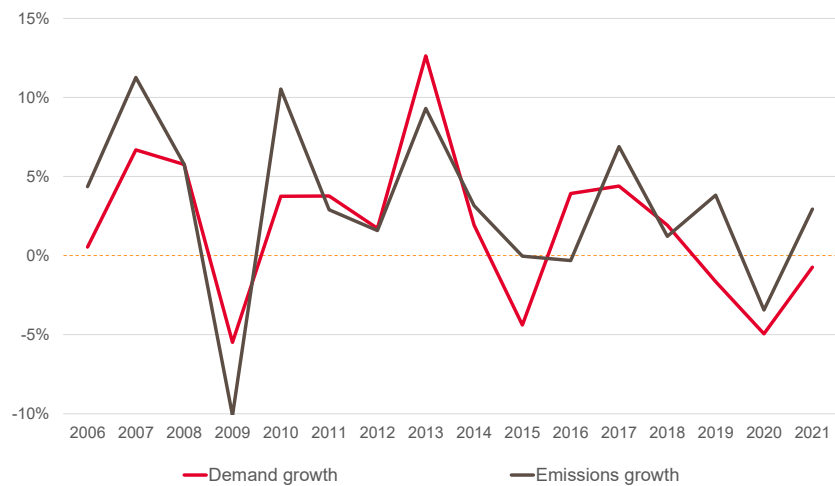
Primary energy demand mix



Electricity generation by source



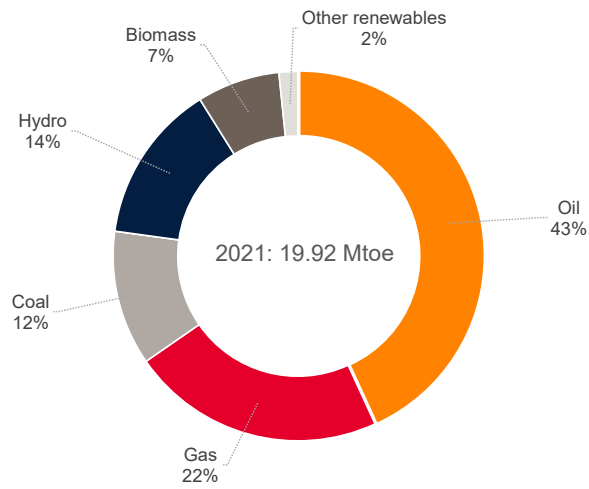
Primary energy demand and CO₂ emissions growth



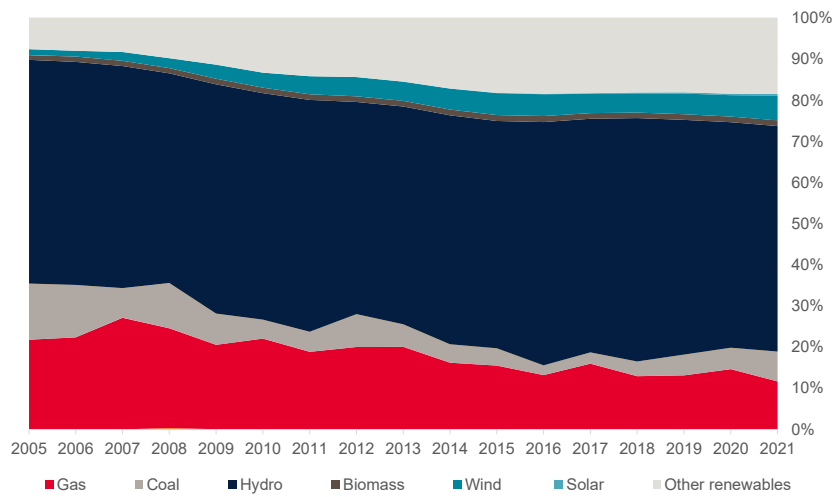
New Zealand (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	19.5	19.7	20.8	20.9	20.6	20.6	20.1	20.8	20.1	19.9	100.0
Oil	6.5	6.4	6.6	6.8	6.6	6.6	6.4	6.7	6.3	6.4	32.3
Gas	3.8	4.0	4.4	4.1	4.2	4.2	3.8	4.0	3.9	3.3	16.6
Coal	1.6	1.5	1.3	1.4	1.1	1.2	1.3	1.5	1.4	1.8	8.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	10.4
Biomass	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	5.4
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.2
Electricity balance of trade*	4.1	4.5	5.0	5.2	5.0	5.0	5.0	5.0	5.0	5.0	25.1
Total final consumption, by source	13.4	13.7	14.7	14.5	14.8	15.0	14.7	15.3	14.2	14.1	100.0
Oil	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.9	6.3	6.6	46.9
Gas	1.9	2.3	3.0	2.7	2.9	2.8	2.5	2.8	2.6	2.2	15.8
Coal	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.8	5.9
Electricity	3.4	3.3	3.4	3.4	3.4	3.3	3.4	3.4	3.3	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	1.0	1.1	1.0	1.1	1.1	1.0	1.0	1.0	0.9	6.6
Electricity generation, by source	3.8	3.7	3.8	3.8	3.8	3.8	3.8	3.9	3.8	3.8	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	0.8	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.4	11.7
Coal	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	7.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	54.8
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	6.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Other renewables	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	18.4
Total final consumption, by sector	13.4	13.7	14.7	14.5	14.8	15.0	14.7	15.3	14.2	14.1	100.0
Industry	4.3	4.5	4.8	4.7	4.8	4.7	4.6	4.8	4.4	4.2	29.6
Transport	4.5	4.6	4.6	4.8	4.9	5.3	5.4	5.4	4.9	5.2	36.6
Residential/Commercial	2.8	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	20.0
Oil final consumption, by sector	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.9	6.3	6.6	100.0
Industry	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	6.1
Transport	4.5	4.6	4.6	4.8	4.9	5.2	5.4	5.4	4.9	5.2	77.8
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.7
Natural gas final consumption, by sector	1.9	2.3	3.0	2.7	2.9	2.8	2.5	2.8	2.6	2.2	100.0
Industry	0.9	1.1	1.4	1.2	1.3	1.3	1.2	1.4	1.2	1.1	48.1
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	14.3
Refined products consumption	5.8	5.9	6.1	6.2	6.4	6.6	6.7	6.9	6.3	6.6	100.0
Gasoline	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.3	2.3	35.0
Diesel	2.6	2.7	2.8	2.9	2.9	3.1	3.2	3.3	3.1	3.3	50.0
Heating Oil	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.7
Aviation Jet	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	4.0
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.3
Imports	7.5	7.6	7.6	7.6	8.2	8.1	8.3	8.1	6.8	6.2	100.0
Oil	7.5	7.6	7.6	7.6	8.2	8.1	8.3	8.1	6.8	6.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.2	1.2	1.2	1.1	1.0	1.1	1.0	1.0	1.1	1.2	18.9
Diesel	0.5	0.7	0.8	0.7	1.1	1.0	1.3	1.3	1.3	1.4	22.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Aviation Jet	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.8
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Exports	2.1	1.8	2.0	2.0	1.8	1.6	1.3	1.3	0.9	0.6	100.0
Oil	2.1	1.8	2.0	2.0	1.8	1.6	1.3	1.3	0.9	0.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	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	0.2	0.2	0.1	0.2	0.2	0.2	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	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.8
CO₂ Emissions (Million tons CO₂)	31.3	31.3	32.0	31.8	31.3	32.8	32.4	34.1	32.6	31.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	200.1	195.3	192.3	184.1	174.6	176.6	169.0	175.1	164.5	150.4	-
Final energy intensity (toe/million \$15ppp)	79.2	78.3	78.3	76.0	73.7	72.6	69.9	70.6	64.7	61.4	-
Total energy intensity (toe/million \$15ppp)	124.7	122.8	124.7	121.1	114.8	110.9	104.7	106.6	101.1	95.1	-

*Heat is included

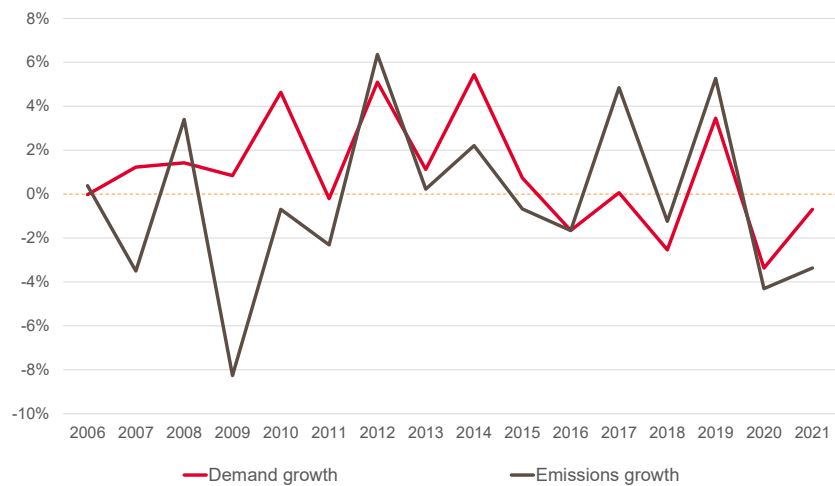
Primary energy demand mix



Electricity generation by source



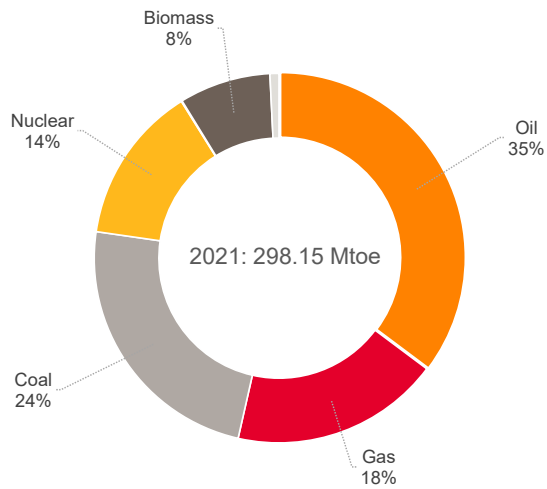
Primary energy demand and CO₂ emissions growth



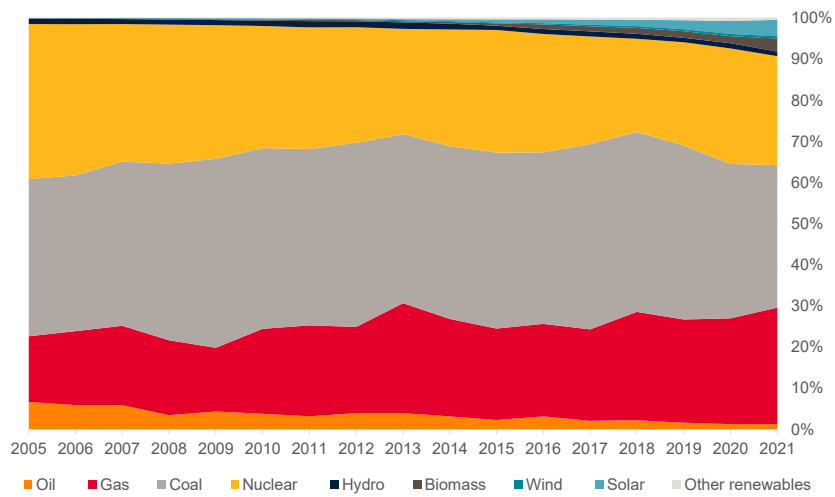
South Korea (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	270.5	271.5	276.8	283.0	293.4	295.1	295.6	294.3	285.3	298.2	100.0
Oil	97.2	96.6	96.3	102.7	109.8	109.1	110.4	104.4	98.1	104.8	35.2
Gas	45.0	47.6	43.1	39.3	41.3	43.2	47.5	48.9	50.2	54.6	18.3
Coal	77.1	77.9	81.7	80.8	81.5	82.6	80.5	80.0	70.4	70.7	23.7
Nuclear	39.2	36.2	40.8	42.9	42.2	38.7	34.8	38.0	41.7	41.2	13.8
Hydro	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1
Biomass	11.4	12.4	14.0	16.2	17.4	20.0	20.6	20.8	22.0	23.8	8.0
Other renewables	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.3	1.8	2.3	0.8
Electricity balance of trade*	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.6	0.2
Total final consumption, by source	182.8	185.7	187.9	193.7	199.7	206.1	205.8	206.4	199.5	210.1	100.0
Oil	84.4	84.6	86.5	90.3	94.1	97.4	94.7	97.5	91.9	98.0	46.6
Gas	22.7	24.1	22.2	20.5	21.5	22.2	22.4	21.8	21.0	22.1	10.5
Coal	19.8	19.6	20.1	21.0	19.5	18.7	19.4	18.4	17.5	18.3	8.7
Electricity	41.4	41.9	41.9	42.6	44.5	45.0	45.7	45.0	44.1	46.2	22.0
Heat	4.4	4.4	4.7	4.5	5.0	5.3	5.8	5.8	6.0	6.3	3.0
Biomass	10.1	11.0	12.5	14.8	15.2	17.5	17.8	17.8	19.0	19.2	9.1
Electricity generation, by source	46.0	46.6	47.4	47.5	48.4	48.8	50.7	50.0	49.0	51.2	100.0
Oil	1.8	1.8	1.5	1.1	1.5	1.0	1.1	0.8	0.6	0.6	1.3
Gas	9.6	12.5	11.2	10.6	10.9	10.8	13.4	12.6	12.6	14.5	28.3
Coal	20.6	19.2	19.9	20.3	20.2	22.0	22.2	21.2	18.4	17.7	34.6
Nuclear	12.9	11.9	13.5	14.2	13.9	12.8	11.5	12.5	13.8	13.6	26.5
Hydro	0.7	0.7	0.7	0.5	0.6	0.6	0.6	0.5	0.6	0.5	1.1
Biomass	0.1	0.2	0.2	0.3	0.5	0.6	0.7	0.8	0.8	1.6	3.2
Wind	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.5
Solar	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	4.0
Other renewables	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.4
Total final consumption, by sector	182.8	185.7	187.9	193.7	199.7	206.1	205.8	206.4	199.5	210.1	100.0
Industry	62.3	64.3	65.4	67.1	66.5	68.9	70.3	68.8	67.0	69.9	33.3
Transport	30.7	31.9	32.4	34.4	35.4	36.1	35.6	37.1	35.1	35.8	17.1
Residential/Commercial	43.3	42.4	41.3	42.2	45.1	45.9	46.4	45.0	45.4	46.9	22.3
Oil final consumption, by sector	84.4	84.6	86.5	90.3	94.1	97.4	94.7	97.5	91.9	98.0	100.0
Industry	4.1	3.5	3.5	3.4	3.6	3.6	3.7	3.6	3.4	3.8	3.8
Transport	29.1	30.1	30.6	32.6	33.4	34.1	33.5	35.0	33.2	33.9	34.6
Residential/Commercial	6.3	5.7	5.4	6.2	6.4	6.4	6.1	5.5	5.2	5.1	5.2
Natural gas final consumption, by sector	22.7	24.1	22.2	20.5	21.5	22.2	22.4	21.8	21.0	22.1	100.0
Industry	9.2	9.8	8.8	7.4	7.5	7.5	7.5	7.4	6.8	7.6	34.4
Transport	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	4.7
Residential/Commercial	12.4	13.1	12.2	11.9	12.8	13.5	13.7	13.2	13.2	13.5	60.9
Refined products consumption	84.4	84.6	86.5	90.3	94.1	97.4	94.7	97.5	91.9	98.0	100.0
Gasoline	8.6	9.2	9.2	9.6	9.9	9.9	10.0	10.3	10.1	10.6	10.8
Diesel	18.9	19.8	20.1	21.7	22.1	22.9	22.0	23.2	22.1	22.4	22.9
Heating Oil	2.6	1.8	1.6	1.7	1.9	1.6	1.5	1.2	1.3	1.2	1.2
Aviation Jet	1.3	1.2	1.5	1.7	1.7	1.8	1.8	1.5	1.0	1.2	1.2
LPG	8.3	8.6	8.3	8.7	9.5	9.2	9.8	10.9	10.8	10.8	11.0
Imports	211.4	213.6	212.4	218.7	229.4	234.5	243.6	236.1	223.6	232.4	100.0
Oil	168.5	165.9	168.3	179.7	189.8	190.9	194.0	187.9	174.3	176.7	76.1
Gas	42.9	47.7	44.0	38.9	39.6	43.6	49.6	48.2	49.3	55.6	23.9
Gasoline	0.0	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Diesel	0.9	1.4	0.8	0.3	0.3	0.3	0.2	0.2	0.0	0.0	0.0
Heating Oil	4.2	7.1	8.0	7.2	7.2	6.1	6.7	4.8	4.5	5.7	2.5
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	7.1	6.4	6.1	6.0	8.3	7.2	7.4	9.0	9.6	9.2	4.0
Exports	58.8	56.9	59.0	62.8	64.3	66.8	70.9	69.3	62.0	59.1	100.0
Oil	58.8	56.9	59.0	62.8	64.3	66.8	70.9	69.3	62.0	59.1	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	7.9	8.0	9.1	9.9	9.5	10.2	11.0	11.0	9.2	12.3	20.8
Diesel	24.1	22.3	23.8	23.5	23.9	24.0	26.0	26.7	27.3	24.7	41.8
Heating Oil	4.3	3.4	2.1	1.6	2.0	2.5	4.1	2.7	2.0	1.3	2.2
Aviation Jet	12.3	12.0	12.6	14.4	14.9	16.1	15.5	15.4	10.6	9.4	15.9
LPG	0.2	0.1	0.1	0.1	0.2	0.2	0.5	0.5	0.6	0.3	0.5
CO₂ Emissions (Million tons CO₂)	630.9	628.2	624.3	638.5	655.9	665.6	667.6	651.4	596.5	613.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	357.1	344.7	332.0	330.2	329.5	324.1	315.9	301.5	278.5	275.3	-
Final energy intensity (toe/million \$15ppp)	78.9	77.8	75.4	75.7	75.2	74.8	73.3	71.1	70.1	69.8	-
Total energy intensity (toe/million \$15ppp)	153.1	149.0	147.2	146.4	147.4	143.7	139.9	136.2	133.2	133.8	-

*Heat is included

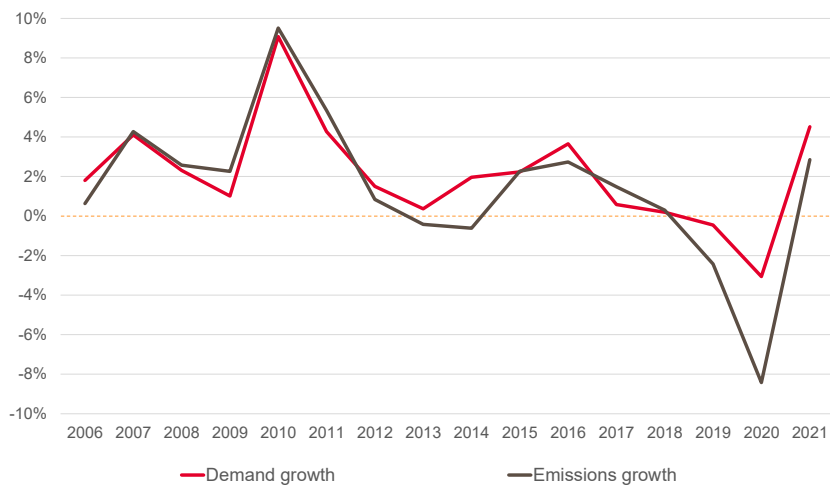
Primary energy demand mix



Electricity generation by source



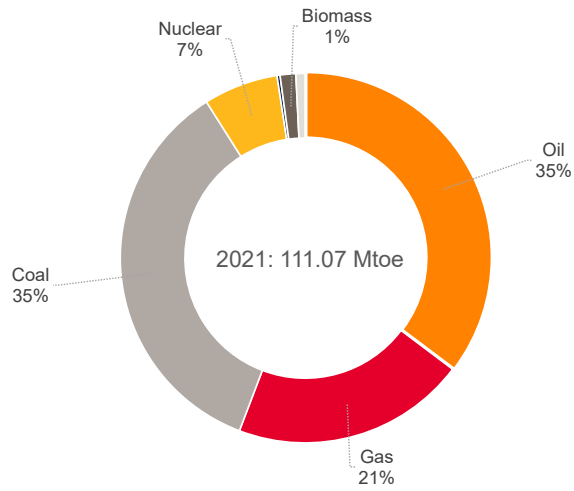
Primary energy demand and CO₂ emissions growth



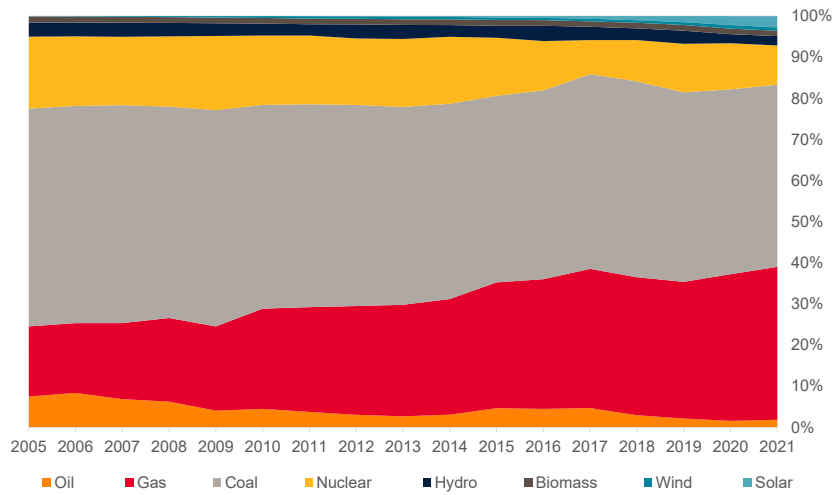
Taiwan (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	107.5	109.8	111.9	110.6	111.2	110.7	112.1	109.5	107.2	111.1	100.0
Oil	40.8	41.9	42.7	42.8	43.4	43.1	42.5	39.7	38.7	39.2	35.2
Gas	15.2	15.2	16.1	17.3	18.1	19.9	20.1	19.8	21.3	22.8	20.5
Coal	38.6	39.4	39.8	38.6	39.0	39.6	39.9	39.1	36.4	39.1	35.2
Nuclear	10.5	10.9	11.0	9.5	8.3	5.8	7.2	8.4	8.2	7.2	6.5
Hydro	0.5	0.5	0.4	0.4	0.6	0.5	0.4	0.5	0.3	0.3	0.3
Biomass	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.4
Other renewables	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	0.8
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	70.4	73.2	74.3	74.1	74.8	74.2	75.5	72.9	73.3	76.9	100.0
Oil	37.5	38.9	39.2	39.5	39.4	38.7	39.3	37.0	37.2	38.6	50.2
Gas	2.7	2.8	3.0	3.2	3.4	3.6	3.9	4.0	4.1	4.6	5.9
Coal	9.2	10.1	10.2	9.7	10.0	9.5	8.7	8.5	8.0	8.7	11.3
Electricity	19.1	19.5	20.0	19.9	20.3	20.8	21.3	21.2	21.7	22.8	29.6
Heat	1.5	1.4	1.4	1.3	1.3	1.3	2.0	1.8	1.8	1.9	2.5
Biomass	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Electricity generation, by source	21.5	21.7	22.4	22.2	22.7	23.2	23.7	23.6	24.1	25.0	100.0
Oil	0.7	0.6	0.7	1.0	1.0	1.1	0.7	0.5	0.4	0.5	1.8
Gas	5.7	5.9	6.3	6.8	7.2	7.9	7.9	7.8	8.6	9.3	37.2
Coal	10.5	10.4	10.6	10.1	10.4	11.0	11.3	10.9	10.8	11.1	44.3
Nuclear	3.5	3.6	3.6	3.1	2.7	1.9	2.4	2.8	2.7	2.4	9.5
Hydro	0.7	0.7	0.6	0.6	0.8	0.8	0.7	0.8	0.5	0.6	2.3
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	0.2	0.2	0.2	0.8
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7	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	70.4	73.2	74.3	74.1	74.8	74.2	75.5	72.9	73.3	76.9	100.0
Industry	26.4	27.3	27.6	26.6	27.0	26.9	27.7	27.0	26.8	29.0	37.7
Transport	11.8	11.8	12.0	12.3	12.6	12.5	12.2	12.3	12.4	11.7	15.3
Residential/Commercial	10.8	10.8	11.0	11.1	11.4	11.4	11.1	11.1	11.4	11.5	14.9
Oil final consumption, by sector	37.5	38.9	39.2	39.5	39.4	38.7	39.3	37.0	37.2	38.6	100.0
Industry	3.1	2.8	2.5	2.0	1.8	1.8	1.8	1.5	1.2	1.3	3.3
Transport	11.7	11.7	11.8	12.2	12.5	12.4	12.0	12.1	12.2	11.6	30.1
Residential/Commercial	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	4.1
Natural gas final consumption, by sector	2.7	2.8	3.0	3.2	3.4	3.6	3.9	4.0	4.1	4.6	100.0
Industry	1.6	1.8	2.0	2.1	2.3	2.5	2.8	2.9	3.0	3.4	75.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	23.7
Refined products consumption	37.5	38.9	39.2	39.5	39.4	38.7	39.3	37.0	37.2	38.6	100.0
Gasoline	7.5	7.5	7.6	7.9	8.2	8.0	7.8	7.8	7.9	7.3	19.0
Diesel	4.6	4.6	4.7	4.7	4.8	4.7	4.7	4.8	4.9	4.9	12.7
Heating Oil	3.2	2.9	2.5	2.1	1.9	1.8	1.5	1.2	0.9	1.0	2.5
Aviation Jet	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.6
LPG	2.3	3.0	3.0	2.6	3.3	2.6	3.1	3.1	2.6	1.8	4.6
Imports	75.9	76.5	80.5	80.3	82.2	83.6	84.6	82.5	76.3	79.2	100.0
Oil	60.9	61.5	64.6	63.3	64.5	63.9	64.4	62.6	55.0	56.3	71.1
Gas	15.0	15.0	15.9	17.1	17.8	19.8	20.2	19.9	21.2	22.9	28.9
Gasoline	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1
Diesel	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	1.0	1.5	1.8	1.0	1.7	2.5	2.2	1.2	0.6	0.8	1.0
Aviation Jet	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.0
LPG	0.9	1.4	2.0	1.6	2.1	1.5	2.1	2.1	1.8	0.6	0.8
Exports	17.0	17.5	17.5	17.0	17.4	17.3	18.5	19.6	13.2	14.5	100.0
Oil	17.0	17.5	17.5	17.0	17.4	17.3	18.5	19.6	13.2	14.5	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	3.4	4.3	4.2	4.3	4.7	4.4	4.1	3.7	1.8	3.2	22.3
Diesel	9.3	9.9	9.9	9.0	8.9	8.3	9.4	10.0	6.6	6.7	46.3
Heating Oil	1.3	0.6	0.7	1.0	1.3	1.6	1.9	1.8	1.6	1.9	12.9
Aviation Jet	1.3	1.3	1.0	1.0	0.9	0.8	1.0	0.9	0.8	0.4	2.6
LPG	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	262.9	265.3	270.5	271.1	275.3	283.0	279.4	268.2	261.9	266.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	535.2	528.3	517.8	514.8	515.5	515.0	494.8	460.8	435.4	416.4	-
Final energy intensity (toe/million \$15ppp)	101.4	101.0	98.5	96.4	97.0	93.8	91.8	88.0	85.4	82.9	-
Total energy intensity (toe/million \$15ppp)	218.9	218.6	214.2	210.0	208.2	201.6	198.5	188.2	178.2	173.7	-

*Heat is included

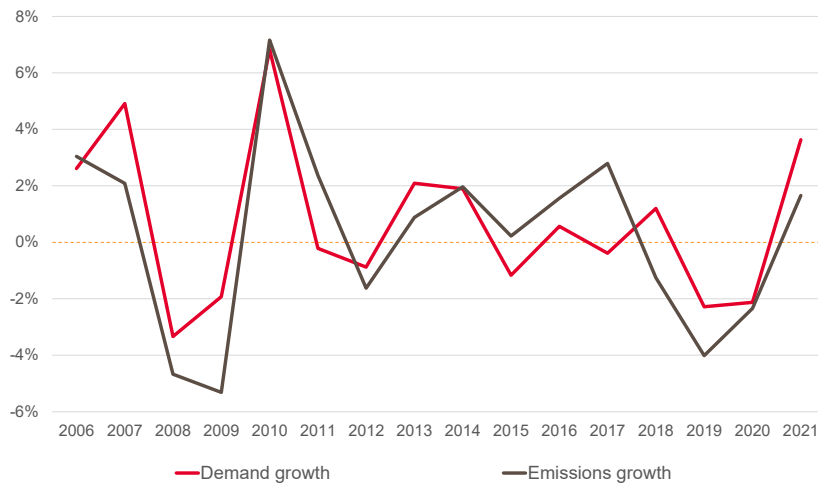
Primary energy demand mix



Electricity generation by source



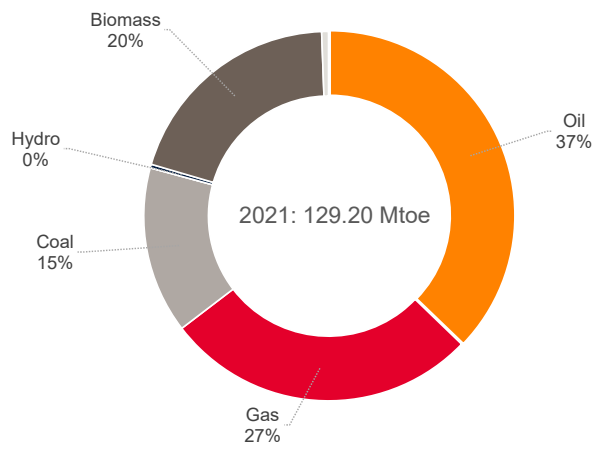
Primary energy demand and CO₂ emissions growth



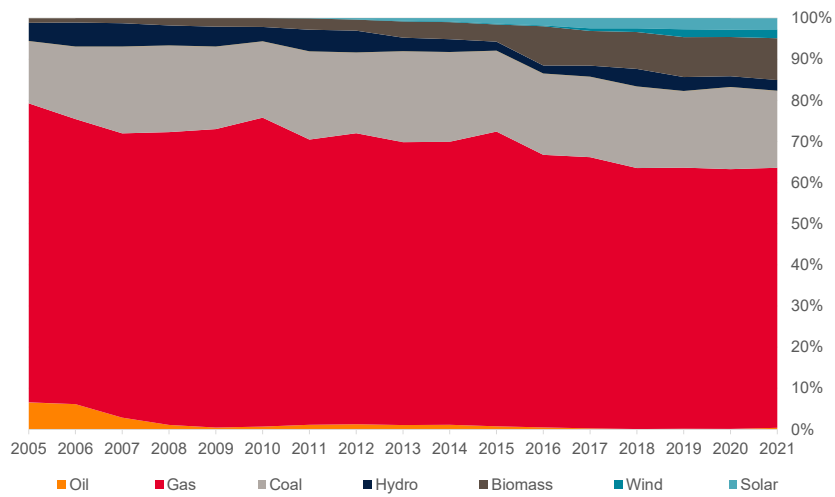
Thailand (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	126.3	135.6	134.9	135.6	138.7	138.0	135.1	138.6	128.1	129.2	100.0
Oil	49.5	54.3	53.9	54.1	55.9	56.4	54.7	55.0	49.9	47.0	36.4
Gas	35.2	37.9	37.8	37.8	36.9	36.0	35.5	36.6	34.3	34.7	26.8
Coal	16.5	17.2	15.9	16.9	15.4	16.4	15.8	16.3	17.3	18.5	14.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.8	0.5	0.5	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.3
Biomass	23.5	24.7	25.7	25.3	28.2	26.3	25.7	27.3	23.1	25.1	19.5
Other renewables	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.8	0.7	0.8	0.6
Electricity balance of trade*	0.7	1.0	0.9	1.1	1.6	2.0	2.2	2.0	2.3	2.7	2.1
Total final consumption, by source	91.1	95.1	95.7	98.1	97.1	99.0	100.4	102.4	90.8	92.4	100.0
Oil	47.5	51.0	50.8	51.9	53.5	53.8	54.7	55.0	47.5	45.8	49.5
Gas	6.1	7.1	7.4	7.2	7.2	7.0	7.3	7.1	5.6	5.6	6.1
Coal	7.8	7.3	6.4	8.2	6.1	7.5	6.9	7.8	8.8	10.4	11.3
Electricity	13.9	14.1	14.5	15.0	15.9	15.9	16.2	16.6	16.0	16.3	17.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	15.7	15.5	16.5	15.9	14.5	14.7	15.3	15.9	12.9	14.2	15.4
Electricity generation, by source	14.2	14.6	14.8	15.2	16.2	15.6	15.7	16.4	15.4	15.4	100.0
Oil	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.4
Gas	10.1	10.1	10.2	10.9	10.7	10.3	9.9	10.4	9.7	9.7	63.2
Coal	2.8	3.2	3.2	3.0	3.2	3.1	3.1	3.1	3.1	2.9	18.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.8	0.5	0.5	0.3	0.3	0.4	0.7	0.6	0.4	0.4	2.6
Biomass	0.4	0.6	0.6	0.6	1.5	1.3	1.4	1.6	1.5	1.6	10.2
Wind	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	2.1
Solar	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	2.8
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	91.1	95.1	95.7	98.1	97.1	99.0	100.4	102.4	90.8	92.4	100.0
Industry	28.2	28.4	30.5	32.1	31.3	31.6	31.5	33.5	30.6	33.7	36.5
Transport	21.6	21.9	21.6	22.8	24.1	26.3	26.4	27.0	26.5	24.9	27.0
Residential/Commercial	18.1	17.5	16.6	16.6	15.8	15.6	14.9	15.4	14.3	14.6	15.8
Oil final consumption, by sector	47.5	51.0	50.8	51.9	53.5	53.8	54.7	55.0	47.5	45.8	100.0
Industry	3.7	5.0	6.1	5.7	6.5	5.0	4.1	4.6	3.9	3.9	8.5
Transport	18.4	18.2	17.5	18.8	20.2	22.5	22.6	23.3	23.1	21.7	47.4
Residential/Commercial	3.6	2.8	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.4	5.3
Natural gas final consumption, by sector	6.1	7.1	7.4	7.2	7.2	7.0	7.3	7.1	5.6	5.6	100.0
Industry	2.4	2.4	2.5	3.0	3.3	3.3	3.5	3.5	3.1	3.4	59.7
Transport	2.3	2.5	2.6	2.5	2.3	2.0	1.8	1.6	1.1	0.9	16.1
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	47.1	50.7	50.6	51.3	52.8	53.2	54.1	54.3	47.0	45.2	100.0
Gasoline	5.4	5.5	5.6	6.3	7.0	7.1	7.3	7.5	7.4	6.8	15.1
Diesel	17.1	17.3	17.3	18.0	18.6	19.0	18.5	19.8	19.3	18.5	41.0
Heating Oil	1.0	1.0	1.0	0.6	0.8	0.8	0.7	0.7	0.7	0.7	1.5
Aviation Jet	0.5	0.6	0.6	0.9	0.9	1.0	0.9	0.8	0.3	0.2	0.4
LPG	8.6	8.7	8.7	7.7	7.1	7.3	7.7	7.7	6.9	7.3	16.2
Imports	56.9	59.9	57.8	62.8	62.8	66.1	69.1	65.9	59.9	61.0	100.0
Oil	47.9	50.4	49.0	50.8	51.2	53.7	56.4	53.4	47.1	47.5	77.9
Gas	9.0	9.5	8.9	12.0	11.6	12.4	12.6	12.5	12.8	13.5	22.1
Gasoline	0.3	0.2	0.7	0.6	1.2	1.3	1.2	1.7	1.1	0.5	0.8
Diesel	0.0	0.2	0.3	0.1	0.7	0.7	0.5	2.1	0.0	0.2	0.3
Heating Oil	0.3	0.3	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	0.0	0.0
LPG	2.0	2.3	2.5	1.6	0.5	0.8	0.8	0.6	0.6	0.6	1.1
Exports	14.2	14.3	12.6	14.1	12.9	14.1	15.0	11.8	12.5	13.1	100.0
Oil	14.2	14.3	12.6	14.1	12.9	14.1	15.0	11.8	12.5	13.1	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	1.2	1.2	1.0	1.1	1.1	1.2	1.3	0.9	1.0	1.2	9.3
Diesel	4.7	4.2	3.8	5.4	4.2	4.6	4.8	3.3	5.0	5.6	43.1
Heating Oil	3.7	3.6	3.6	3.5	3.1	3.3	3.3	3.1	2.5	2.9	21.9
Aviation Jet	0.6	1.2	1.0	1.2	0.4	0.6	0.8	0.7	0.5	0.3	2.0
LPG	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.4	0.3	0.2	1.6
CO₂ Emissions (Million tons CO₂)	249.7	261.4	256.6	263.8	260.2	260.1	258.8	268.1	261.0	258.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	245.6	250.4	243.4	242.7	231.4	222.0	212.0	214.8	222.6	217.5	-
Final energy intensity (toe/million \$15ppp)	70.5	68.8	68.9	69.4	66.0	65.0	62.1	63.2	62.9	63.4	-
Total energy intensity (toe/million \$15ppp)	124.2	129.9	127.9	124.7	123.4	117.8	110.7	111.0	109.3	108.5	-

*Heat is included

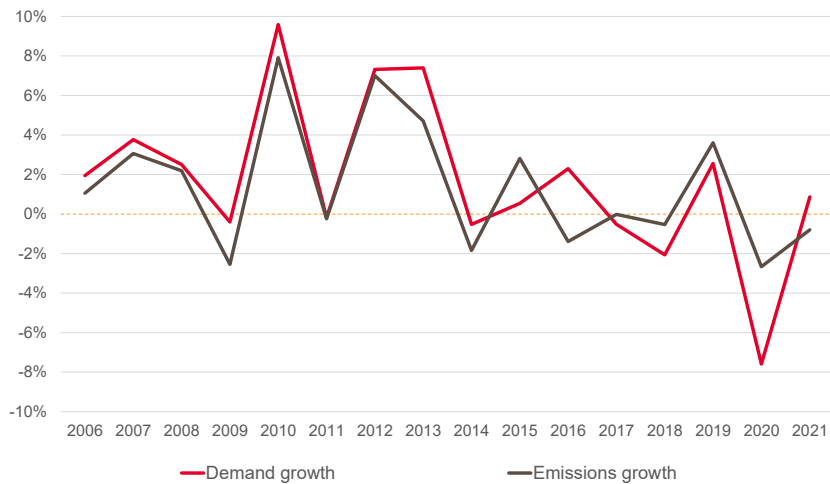
Primary energy demand mix



Electricity generation by source



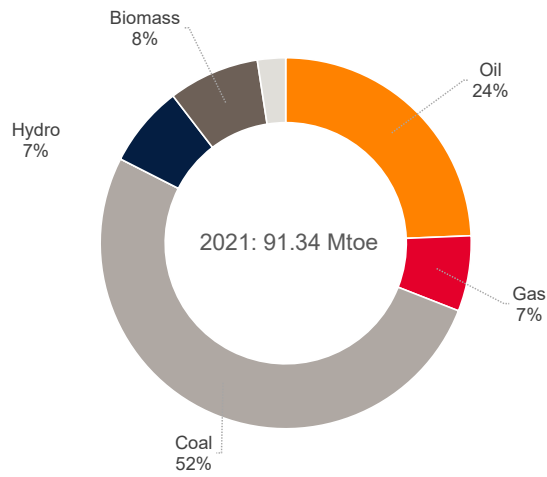
Primary energy demand and CO₂ emissions growth



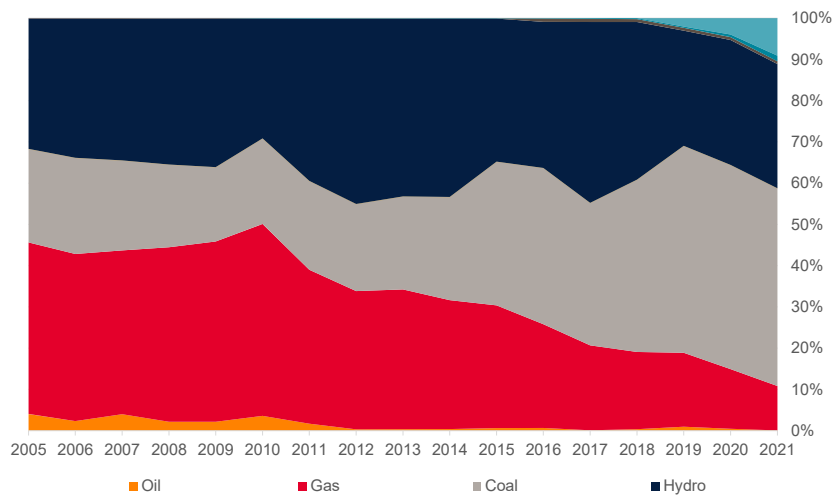
Vietnam (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	59.5	61.1	68.4	63.1	69.5	72.1	85.2	95.9	97.3	91.3	100.0
Oil	16.0	15.9	19.2	17.4	18.5	19.8	22.8	25.2	24.2	22.2	24.3
Gas	8.3	8.5	9.1	7.9	9.0	8.3	8.3	8.5	7.4	6.0	6.6
Coal	15.8	17.2	19.9	24.4	27.2	27.4	37.3	46.5	50.8	47.1	51.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	4.5	5.1	4.8	5.5	7.4	7.1	5.7	6.3	6.5	7.1
Biomass	14.8	14.8	14.8	8.5	9.2	9.2	9.6	9.4	7.5	7.2	7.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.2	2.5
Electricity balance of trade*	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total final consumption, by source	49.3	51.7	55.0	40.1	49.3	52.1	59.7	65.0	66.6	62.7	100.0
Oil	15.3	15.6	16.7	17.4	18.7	19.9	20.9	21.9	19.5	19.5	31.1
Gas	1.4	1.5	1.6	1.1	1.3	1.4	1.4	1.4	1.4	1.4	2.2
Coal	9.7	10.9	11.8	7.9	7.7	8.2	13.1	16.2	21.2	17.0	27.0
Electricity	9.1	10.0	11.0	5.6	13.7	14.9	16.5	18.0	18.7	19.4	31.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	13.8	13.8	13.8	8.1	7.9	7.8	7.8	7.5	5.7	5.4	8.7
Electricity generation, by source	10.1	10.4	11.9	13.9	15.5	16.9	18.7	20.4	20.7	21.5	100.0
Oil	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.0	0.1
Gas	3.4	3.5	3.7	4.1	3.9	3.5	3.5	3.7	3.0	2.3	10.7
Coal	2.1	2.3	3.0	4.9	5.9	5.8	7.8	10.2	10.2	10.3	47.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	4.5	5.1	4.8	5.5	7.4	7.1	5.7	6.3	6.5	30.1
Biomass	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.0	9.1
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	49.3	51.7	55.0	40.1	49.3	52.1	59.7	65.0	66.6	62.7	100.0
Industry	19.1	20.5	22.7	12.0	20.3	21.7	27.9	31.9	36.4	32.7	52.2
Transport	10.0	9.8	10.0	11.1	12.3	13.4	14.0	14.6	12.3	12.3	19.6
Residential/Commercial	18.0	18.4	18.6	12.9	12.7	12.8	13.0	13.2	12.7	12.4	19.8
Oil final consumption, by sector	15.3	15.6	16.7	17.4	18.7	19.9	20.9	21.9	19.5	19.5	100.0
Industry	1.6	1.4	1.6	1.5	1.9	1.6	1.6	1.6	1.5	1.6	8.1
Transport	10.0	9.8	10.0	11.1	12.2	13.3	13.9	14.5	12.2	12.2	62.5
Residential/Commercial	1.5	1.5	1.6	1.8	1.7	1.9	2.0	2.2	2.2	2.0	10.4
Natural gas final consumption, by sector	1.4	1.5	1.6	1.1	1.3	1.4	1.4	1.4	1.4	1.4	100.0
Industry	1.4	1.5	1.6	0.4	0.7	0.8	0.8	0.7	0.8	0.7	53.1
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	15.3	15.6	16.7	17.4	18.7	19.9	20.9	21.9	19.5	19.5	100.0
Gasoline	4.8	4.8	4.7	5.4	5.9	6.5	6.7	6.9	5.9	5.9	30.4
Diesel	6.7	6.2	6.7	7.9	8.9	9.3	9.7	10.1	8.7	9.2	47.0
Heating Oil	0.4	0.2	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.3	1.5
Aviation Jet	0.3	0.4	0.4	0.6	0.8	0.8	0.8	1.0	0.8	0.4	2.2
LPG	1.4	1.5	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.3	12.0
Imports	11.7	10.7	12.6	12.9	14.5	16.1	19.0	20.8	23.3	19.6	100.0
Oil	11.7	10.7	12.6	12.9	14.5	16.1	19.0	20.8	23.3	19.6	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	3.0	2.4	2.6	2.8	2.6	3.3	2.4	2.1	1.6	0.9	4.6
Diesel	4.6	3.2	4.2	5.3	6.8	7.4	5.9	4.8	4.9	4.8	24.5
Heating Oil	0.8	0.7	0.7	0.7	0.9	0.6	0.7	0.8	0.7	0.6	3.3
Aviation Jet	1.0	1.2	1.2	1.4	1.6	1.8	2.1	2.1	1.2	0.7	3.4
LPG	0.7	0.8	0.8	1.2	1.3	1.5	1.6	2.0	2.0	1.7	8.5
Exports	11.1	9.8	10.6	10.6	9.9	9.1	6.7	5.8	6.6	5.1	100.0
Oil	11.1	9.8	10.6	10.6	9.9	9.1	6.7	5.8	6.6	5.1	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	0.4	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	6.2
Diesel	0.8	0.5	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	12.7
Heating Oil	0.3	0.2	0.1	0.1	0.3	0.3	0.4	0.5	0.4	0.4	7.3
Aviation Jet	0.2	0.3	0.4	0.3	0.4	0.3	0.4	0.2	0.3	0.3	5.7
LPG	0.0	0.1	0.0	0.0	0.3	0.2	0.3	0.5	0.3	0.3	5.2
CO₂ Emissions (Million tons CO₂)	126.5	132.8	147.0	166.0	184.0	185.3	231.1	275.9	283.7	267.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	217.1	215.9	224.6	237.0	246.3	232.0	269.8	300.6	300.4	275.5	-
Final energy intensity (toe/million \$15ppp)	81.8	80.2	79.3	54.4	64.0	63.4	67.7	68.7	68.4	62.7	-
Total energy intensity (toe/million \$15ppp)	102.1	99.4	104.5	90.1	93.0	90.2	99.5	104.5	103.0	94.2	-

*Heat is included

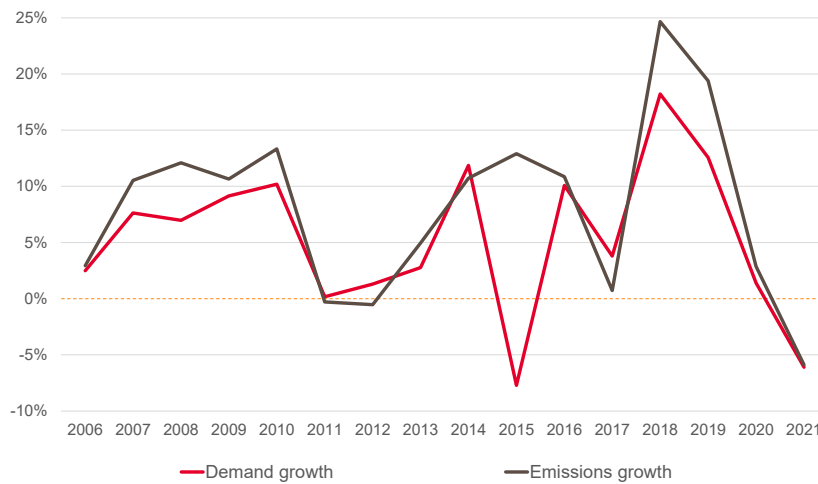
Primary energy demand mix



Electricity generation by source



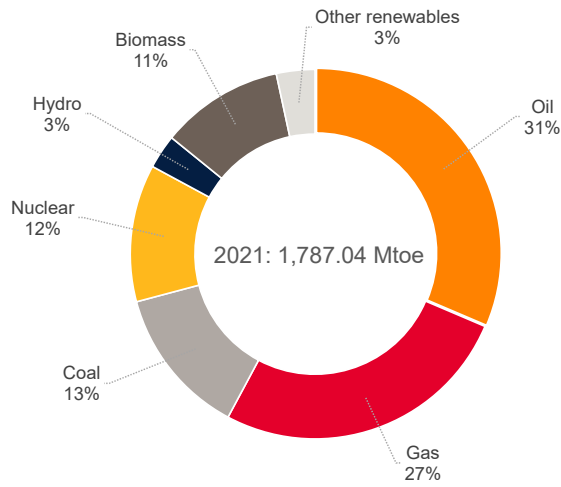
Primary energy demand and CO₂ emissions growth



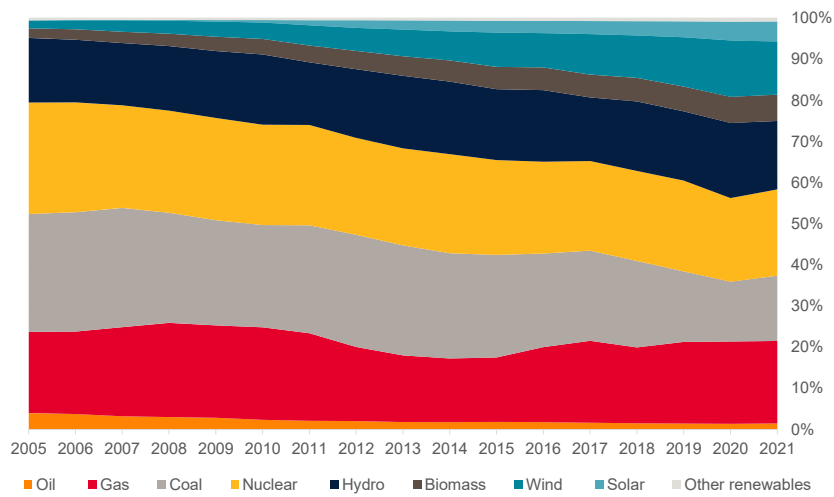
Europe <i>(Million toe)</i>	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	1,865.7	1,846.4	1,779.2	1,808.3	1,825.1	1,859.1	1,846.7	1,816.9	1,700.9	1,787.0	100.0
Oil	592.5	579.7	572.0	584.8	591.8	607.5	595.1	591.0	533.9	551.2	30.8
Gas	441.7	435.9	394.2	408.6	431.6	452.9	444.8	449.4	439.0	463.6	25.9
Coal	346.5	335.4	316.9	313.3	297.0	290.9	282.8	241.5	206.0	229.2	12.8
Nuclear	236.6	235.3	235.6	229.4	224.3	221.5	222.2	221.0	197.5	211.1	11.8
Hydro	52.3	55.1	54.0	53.6	54.8	48.9	53.9	53.0	55.5	52.4	2.9
Biomass	153.6	157.4	155.1	160.2	163.8	168.2	173.6	178.5	180.5	189.2	10.6
Other renewables	25.2	29.4	32.1	37.6	38.3	44.5	46.9	53.2	59.3	59.1	3.3
Electricity balance of trade*	17.3	18.3	19.3	20.9	23.5	24.8	27.4	29.3	29.1	31.1	1.7
Total final consumption, by source	1,319.9	1,315.7	1,267.0	1,294.3	1,319.1	1,342.5	1,335.7	1,328.2	1,263.0	1,328.1	100.0
Oil	527.4	521.0	516.6	526.0	535.0	546.1	539.5	538.6	492.6	515.3	38.8
Gas	282.5	288.5	259.1	268.7	277.4	283.2	282.0	280.9	276.1	299.8	22.6
Coal	76.6	73.2	72.2	71.9	71.9	72.2	67.9	63.5	60.2	63.0	4.7
Electricity	278.4	276.7	271.4	276.1	280.2	283.7	284.8	281.8	272.3	283.3	21.3
Heat	58.1	58.2	54.3	55.5	57.5	58.0	57.1	57.0	55.1	55.1	4.1
Biomass	96.9	98.1	93.4	96.0	97.1	99.4	104.5	106.5	106.7	111.7	8.4
Electricity generation, by source	331.0	328.8	322.8	328.1	331.3	335.4	335.1	330.1	320.3	332.0	100.0
Oil	6.7	5.8	5.6	5.9	5.7	5.4	4.9	4.7	4.3	4.8	1.4
Gas	59.6	53.3	50.0	51.5	60.5	66.8	61.8	65.5	64.1	66.6	20.1
Coal	90.2	87.9	82.6	81.8	75.4	73.5	70.5	56.5	46.7	52.7	15.9
Nuclear	78.1	77.6	77.7	75.7	74.0	73.1	73.3	72.9	65.2	69.7	21.0
Hydro	55.3	58.0	56.9	56.5	57.7	52.0	56.7	55.7	58.4	55.2	16.6
Biomass	14.8	15.6	16.6	17.8	18.2	18.6	19.1	19.8	20.4	21.2	6.4
Wind	18.5	21.3	22.8	27.3	27.7	32.9	34.6	39.6	43.9	42.9	12.9
Solar	6.2	7.4	8.5	9.4	9.8	10.7	11.7	12.7	14.7	16.2	4.9
Other renewables	1.7	1.7	1.9	2.1	2.3	2.4	2.5	2.6	2.6	2.7	0.8
Total final consumption, by sector	1,319.9	1,315.7	1,267.0	1,294.3	1,319.1	1,342.5	1,335.7	1,328.2	1,263.0	1,328.1	100.0
Industry	327.4	323.7	320.1	321.1	323.1	333.0	333.9	327.1	316.4	330.1	24.9
Transport	342.8	340.7	346.4	353.9	364.0	371.0	375.2	378.1	330.4	353.9	26.6
Residential/Commercial	504.2	508.6	458.0	478.5	488.8	490.5	483.1	480.1	473.4	496.8	37.4
Oil final consumption, by sector	527.4	521.0	516.6	526.0	535.0	546.1	539.5	538.6	492.6	515.3	100.0
Industry	33.7	30.0	28.8	30.1	27.4	30.3	32.1	30.3	30.3	29.9	5.8
Transport	320.9	319.7	324.5	332.0	341.9	347.4	349.7	351.2	304.2	326.4	63.3
Residential/Commercial	59.0	60.2	53.1	54.3	54.5	53.8	47.8	48.2	48.5	46.7	9.1
Natural gas final consumption, by sector	282.5	288.5	259.1	268.7	277.4	283.2	282.0	280.9	276.1	299.8	100.0
Industry	93.6	95.1	92.8	91.0	92.9	97.1	95.4	94.1	91.9	98.7	32.9
Transport	1.4	1.6	1.7	1.8	1.8	1.8	1.8	2.1	2.0	2.2	0.7
Residential/Commercial	167.3	172.1	144.6	156.8	163.4	163.9	164.4	164.0	162.3	177.5	59.2
Refined products consumption	524.8	518.3	513.9	523.8	532.7	543.9	537.7	537.1	491.0	513.6	100.0
Gasoline	90.4	87.2	86.5	84.8	85.1	85.2	87.8	89.4	76.9	84.4	16.4
Diesel	290.4	291.7	289.2	298.8	306.1	311.6	308.5	307.8	280.4	293.4	57.1
Heating Oil	10.4	8.9	8.0	8.2	7.0	6.8	6.4	5.7	4.9	4.7	0.9
Aviation Jet	8.0	7.8	8.5	8.8	9.2	9.3	9.5	9.7	5.1	6.1	1.2
LPG	31.3	33.9	34.8	36.0	36.1	36.5	37.4	37.8	34.6	35.3	6.9
Imports	1,369.7	1,363.1	1,330.5	1,412.2	1,432.3	1,497.6	1,522.8	1,531.7	1,373.4	1,437.5	100.0
Oil	979.8	973.0	962.8	1,023.5	1,032.2	1,055.2	1,040.0	1,032.2	899.0	936.3	65.1
Gas	389.9	390.1	367.7	388.7	400.1	442.4	482.9	499.5	474.5	501.2	34.9
Gasoline	31.6	29.2	28.7	31.3	32.3	31.8	28.9	30.1	26.5	30.0	2.1
Diesel	137.0	146.0	141.4	154.1	164.0	162.4	155.3	156.8	145.3	145.3	10.1
Heating Oil	66.1	67.2	67.9	70.6	68.4	52.0	51.2	46.8	49.5	59.9	4.2
Aviation Jet	32.0	33.9	33.0	34.5	37.0	38.3	40.9	42.0	25.4	26.2	1.8
LPG	20.5	23.4	25.6	27.6	28.3	27.8	29.0	28.5	26.3	26.9	1.9
Exports	647.1	646.3	640.3	691.9	697.9	721.5	742.5	708.7	681.2	709.8	100.0
Oil	462.7	460.7	458.7	497.4	512.4	520.9	508.3	488.6	459.2	489.6	69.0
Gas	184.3	185.6	181.5	194.5	185.4	200.6	234.3	220.0	222.0	220.2	31.0
Gasoline	84.8	79.7	79.1	91.0	91.8	94.2	93.4	93.6	79.0	89.6	12.6
Diesel	104.0	104.2	102.2	109.9	115.4	118.2	106.1	104.8	100.8	111.7	15.7
Heating Oil	70.8	73.4	75.4	83.8	80.2	63.0	58.4	50.1	52.9	61.7	8.7
Aviation Jet	17.5	17.9	14.8	15.1	16.3	17.5	19.6	20.1	14.0	13.2	1.9
LPG	8.6	8.5	8.0	9.7	10.1	10.2	9.6	9.6	8.5	9.8	1.4
CO₂ Emissions (Million tons CO₂)	4,043.2	3,944.7	3,776.2	3,832.8	3,848.4	3,900.7	3,819.6	3,658.5	3,338.2	3,575.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	186.8	180.5	169.2	167.2	164.3	161.5	154.5	145.0	140.0	141.3	-
Final energy intensity (toe/million \$15ppp)	55.8	55.2	51.9	51.8	51.6	50.9	49.7	48.5	48.6	48.2	-
Total energy intensity (toe/million \$15ppp)	86.2	84.5	79.7	78.9	77.9	77.0	74.7	72.0	71.3	70.6	-

*Heat is included

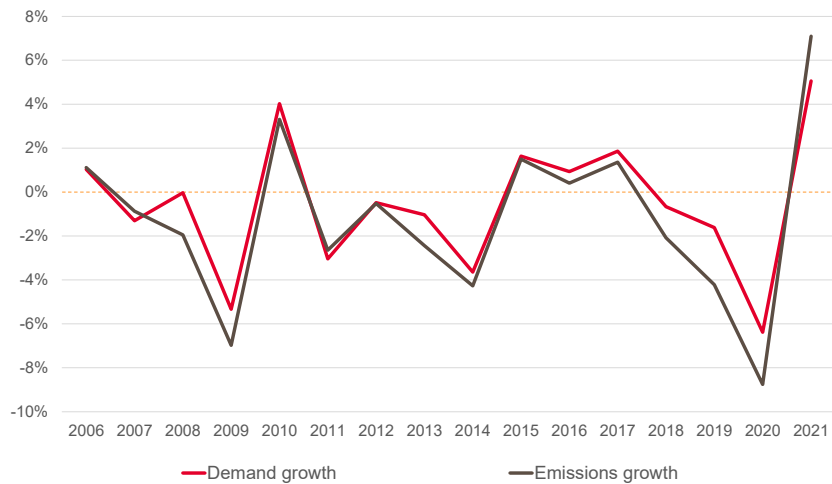
Primary energy demand mix



Electricity generation by source



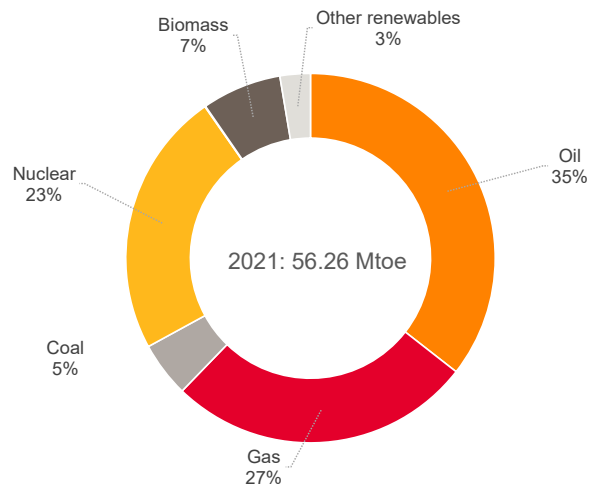
Primary energy demand and CO₂ emissions growth



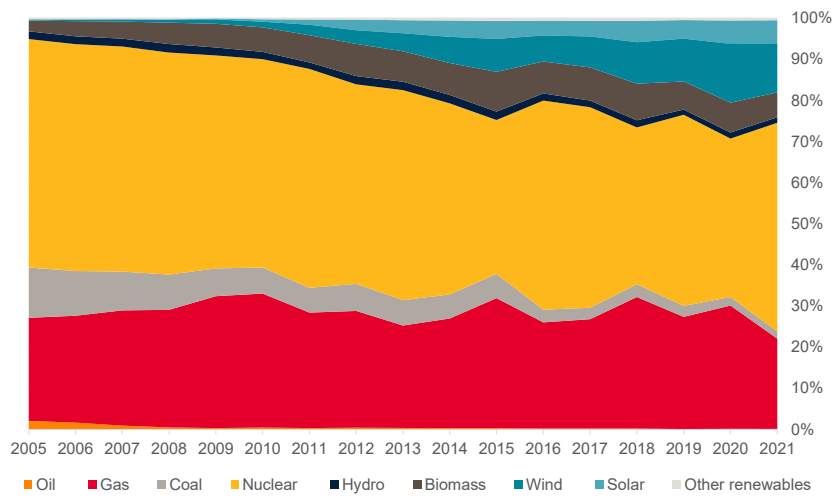
Belgium (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	53.8	56.2	53.0	52.7	55.6	55.3	53.3	54.9	50.5	56.3	100.0
Oil	20.3	21.3	22.0	22.0	21.4	21.2	21.2	20.3	18.5	20.1	35.8
Gas	14.6	14.8	12.9	14.1	14.3	14.6	15.0	15.1	15.0	15.1	26.9
Coal	3.2	3.6	3.5	3.4	3.2	3.1	3.1	3.1	2.4	2.7	4.9
Nuclear	10.5	11.1	8.8	6.8	11.3	11.0	7.5	11.3	9.0	13.2	23.4
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Biomass	3.6	3.6	3.4	3.6	3.8	3.8	3.8	3.7	3.9	3.9	7.0
Other renewables	0.4	0.5	0.6	0.7	0.7	0.8	1.0	1.2	1.5	1.5	2.7
Electricity balance of trade*	1.1	1.1	1.8	2.0	0.8	0.8	1.8	0.1	0.2	-0.4	-0.7
Total final consumption, by source	41.2	43.0	41.1	42.0	42.3	41.7	42.2	41.0	38.9	41.7	100.0
Oil	19.4	20.2	20.1	20.6	20.2	19.5	19.8	18.9	17.6	19.0	45.6
Gas	10.3	10.9	9.4	9.9	10.2	10.5	10.5	10.4	10.1	10.9	26.2
Coal	1.9	2.2	2.2	2.2	2.3	2.3	2.3	2.3	1.8	1.9	4.6
Electricity	7.1	7.1	7.0	7.0	7.1	7.1	7.1	7.0	6.8	7.0	16.8
Heat	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	1.2
Biomass	1.7	2.0	1.8	1.8	2.0	2.0	2.0	2.0	2.1	2.3	5.6
Electricity generation, by source	7.1	7.2	6.2	6.0	7.4	7.4	6.5	8.1	7.7	8.6	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	2.0	1.8	1.7	1.9	1.9	2.0	2.1	2.2	2.3	1.9	21.9
Coal	0.5	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	1.8
Nuclear	3.5	3.7	2.9	2.2	3.7	3.6	2.5	3.7	3.0	4.3	50.7
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3
Biomass	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.5	6.1
Wind	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	1.1	1.0	11.9
Solar	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	5.6
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	41.2	43.0	41.1	42.0	42.3	41.7	42.2	41.0	38.9	41.7	100.0
Industry	10.7	11.0	10.8	10.6	10.8	10.9	11.1	10.9	10.2	10.8	25.9
Transport	8.6	8.4	8.6	8.9	9.0	8.9	8.9	8.9	7.8	8.4	20.1
Residential/Commercial	13.2	14.1	11.7	12.8	12.8	12.7	12.6	12.3	12.2	12.8	30.8
Oil final consumption, by sector	19.4	20.2	20.1	20.6	20.2	19.5	19.8	18.9	17.6	19.0	100.0
Industry	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	3.1
Transport	8.1	7.9	8.0	8.5	8.5	8.3	8.3	8.2	6.9	7.4	39.0
Residential/Commercial	3.4	3.8	3.0	3.6	3.3	3.3	3.2	3.0	3.3	3.4	17.8
Natural gas final consumption, by sector	10.3	10.9	9.4	9.9	10.2	10.5	10.5	10.4	10.1	10.9	100.0
Industry	3.8	3.9	3.7	3.8	3.8	4.0	4.0	3.9	3.8	4.1	37.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Residential/Commercial	5.4	5.8	4.6	5.0	5.2	5.1	5.1	5.1	4.8	5.2	47.4
Refined products consumption	19.4	20.2	20.1	20.6	20.2	19.5	19.8	18.9	17.6	19.0	100.0
Gasoline	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.8	1.5	1.9	9.9
Diesel	10.6	10.8	10.0	10.9	10.5	10.3	10.0	9.6	8.8	9.1	47.7
Heating Oil	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LPG	1.6	1.7	2.0	2.0	1.7	1.7	2.5	2.6	2.5	2.5	12.9
Imports	70.0	72.5	72.6	75.2	73.7	78.1	81.3	82.1	71.5	75.3	100.0
Oil	54.6	56.9	58.8	59.9	58.8	63.5	65.2	63.1	53.8	58.2	77.4
Gas	15.5	15.6	13.8	15.3	14.9	14.6	16.2	19.0	17.7	17.0	22.6
Gasoline	1.0	0.7	0.9	1.3	1.5	0.9	1.6	1.3	0.7	0.9	1.2
Diesel	8.0	12.3	10.0	10.9	11.3	10.8	10.0	8.3	8.4	6.9	9.1
Heating Oil	4.2	5.0	3.5	3.7	3.9	4.8	5.9	5.5	4.2	5.5	7.3
Aviation Jet	2.2	1.6	1.0	0.8	0.5	1.5	1.7	1.5	1.0	1.1	1.5
LPG	1.8	1.9	2.0	2.1	1.8	1.8	2.3	2.3	2.4	2.4	3.2
Exports	28.1	28.3	30.5	30.9	30.2	34.3	33.9	36.1	29.9	32.8	100.0
Oil	27.0	27.5	29.8	29.5	29.6	34.1	32.8	32.5	27.1	30.2	92.1
Gas	1.0	0.8	0.7	1.4	0.6	0.3	1.1	3.6	2.8	2.6	7.9
Gasoline	4.7	4.1	4.4	5.4	5.4	4.9	4.5	5.0	3.4	4.0	12.2
Diesel	9.7	11.2	12.0	11.0	11.9	12.5	11.8	11.2	9.4	10.8	32.8
Heating Oil	3.8	4.6	4.3	4.5	4.0	6.0	5.5	4.1	3.2	3.0	9.0
Aviation Jet	2.7	1.7	1.4	0.9	0.8	1.8	1.6	2.2	1.1	0.6	1.9
LPG	0.8	0.8	0.7	0.8	0.9	0.9	0.7	0.8	0.9	1.1	3.2
CO₂ Emissions (Million tons CO₂)	98.5	99.9	92.8	97.1	95.7	95.0	95.7	95.0	87.3	92.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	197.0	198.8	181.8	186.5	181.5	177.2	175.4	170.4	166.0	166.1	-
Final energy intensity (toe/million \$15ppp)	66.3	68.3	62.3	63.6	63.4	62.1	61.3	59.2	58.9	58.8	-
Total energy intensity (toe/million \$15ppp)	107.6	111.7	103.9	101.1	105.4	103.3	97.7	98.4	96.1	100.7	-

*Heat is included

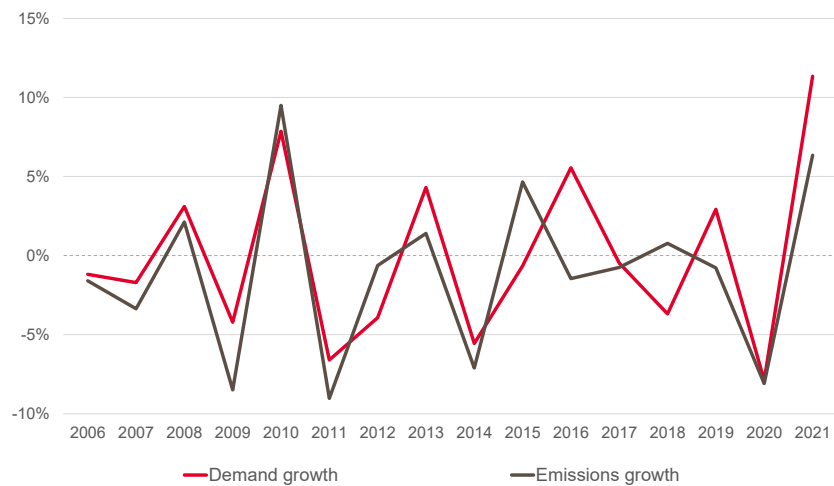
Primary energy demand mix



Electricity generation by source



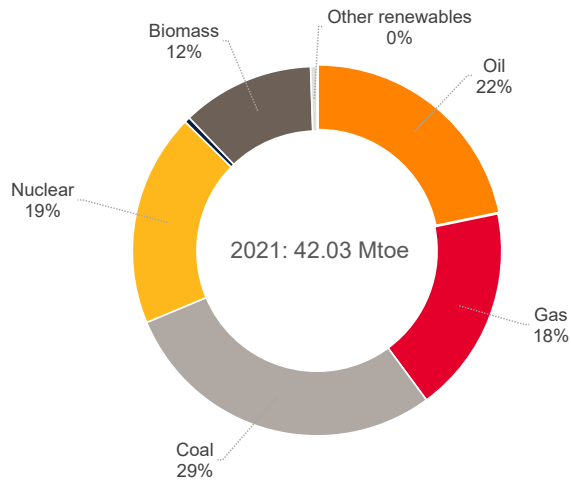
Primary energy demand and CO₂ emissions growth



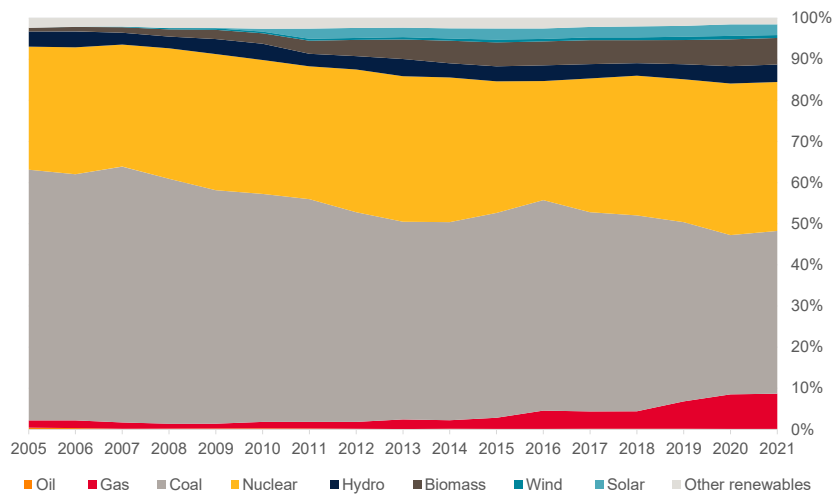
Czech Republic (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	43.2	43.2	41.9	42.0	41.5	43.3	43.4	42.7	40.2	42.0	100.0
Oil	8.6	8.3	8.8	8.6	8.0	9.3	9.4	9.5	8.5	9.3	22.2
Gas	6.9	6.9	6.2	6.5	7.0	7.2	6.8	7.2	7.3	7.8	18.6
Coal	17.4	17.1	16.0	16.4	16.5	15.8	15.8	14.2	12.2	12.4	29.4
Nuclear	7.9	8.0	7.9	7.0	6.3	7.4	7.8	7.9	7.8	8.0	19.1
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.5
Biomass	3.5	3.8	4.0	4.1	4.2	4.3	4.3	4.6	4.8	5.0	11.9
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.6
Electricity balance of trade*	-1.5	-1.4	-1.4	-1.1	-0.9	-1.1	-1.2	-1.1	-0.8	-0.9	-2.2
Total final consumption, by source	26.9	26.6	26.1	26.4	26.3	28.0	27.9	27.8	26.7	28.5	100.0
Oil	8.3	8.0	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.2	32.1
Gas	5.4	5.4	4.9	5.1	5.4	5.6	5.2	5.3	5.2	5.6	19.7
Coal	3.5	3.5	3.3	3.2	3.2	3.3	3.3	2.9	2.8	3.1	10.9
Electricity	4.6	4.6	4.6	4.7	4.8	4.9	5.0	5.0	4.9	5.1	18.0
Heat	2.3	2.3	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.0	6.8
Biomass	2.6	2.7	2.9	2.9	3.0	3.0	3.1	3.3	3.4	3.6	12.5
Electricity generation, by source	7.5	7.5	7.4	7.2	7.2	7.5	7.6	7.5	7.0	7.3	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.6	0.6	8.6
Coal	3.8	3.6	3.6	3.6	3.7	3.6	3.6	3.3	2.7	2.9	39.6
Nuclear	2.6	2.6	2.6	2.3	2.1	2.4	2.6	2.6	2.6	2.6	36.2
Hydro	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	4.3
Biomass	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	6.5
Wind	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.7
Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.6
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.5
Total final consumption, by sector	26.9	26.6	26.1	26.4	26.3	28.0	27.9	27.8	26.7	28.5	100.0
Industry	7.7	7.4	7.3	7.4	7.4	7.6	7.6	7.5	7.4	7.9	27.7
Transport	5.7	5.7	5.9	6.2	6.4	6.6	6.6	6.8	6.3	6.8	23.7
Residential/Commercial	10.2	10.3	9.4	9.7	10.1	10.3	10.0	10.0	10.0	10.5	36.7
Oil final consumption, by sector	8.3	8.0	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.2	100.0
Industry	0.3	0.2	0.3	0.3	0.1	0.1	0.2	0.1	0.2	0.2	2.3
Transport	5.3	5.3	5.4	5.7	5.9	6.1	6.1	6.2	5.7	6.2	67.3
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Natural gas final consumption, by sector	5.4	5.4	4.9	5.1	5.4	5.6	5.2	5.3	5.2	5.6	100.0
Industry	2.0	2.1	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.2	39.0
Transport	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	1.5
Residential/Commercial	3.2	3.2	2.8	2.9	3.2	3.3	3.0	3.0	3.0	3.2	56.6
Refined products consumption	8.3	8.0	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.2	100.0
Gasoline	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.6	17.0
Diesel	4.0	4.0	4.2	4.4	4.6	4.7	4.8	4.9	4.6	4.9	53.5
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
LPG	0.3	0.3	0.4	0.3	0.3	0.5	0.5	0.5	0.4	0.4	4.8
Imports	16.3	17.0	16.8	17.3	17.0	19.1	18.6	19.7	16.8	18.6	100.0
Oil	10.2	10.0	10.9	11.2	10.3	11.8	12.0	11.9	10.5	11.4	61.3
Gas	6.1	7.0	6.0	6.2	6.7	7.3	6.6	7.9	6.3	7.2	38.7
Gasoline	0.5	0.6	0.5	0.5	0.8	0.6	0.7	0.6	0.6	0.6	3.2
Diesel	1.5	1.7	1.8	2.2	2.9	2.1	2.4	2.2	2.6	2.7	14.5
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	0.1	0.1	0.3	0.2	0.3	0.3	0.1	0.1	0.5
LPG	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0
Exports	1.7	1.8	2.0	2.5	2.2	2.4	2.2	2.2	1.8	2.2	100.0
Oil	1.7	1.8	2.0	2.5	2.2	2.4	2.2	2.2	1.8	2.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.3	0.5	0.6	0.4	0.6	0.6	0.6	0.4	0.6	28.4
Diesel	0.7	0.7	0.9	1.1	0.8	0.9	0.8	0.8	0.8	1.0	46.0
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	6.3
CO₂ Emissions (Million tons CO₂)	106.7	102.5	99.9	100.8	102.2	103.8	102.6	97.6	88.7	93.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	321.4	309.1	294.5	281.9	278.7	269.3	257.8	238.1	229.6	233.3	-
Final energy intensity (toe/million \$15ppp)	72.8	72.2	68.6	66.9	66.9	65.3	62.7	60.6	63.0	64.8	-
Total energy intensity (toe/million \$15ppp)	130.1	130.2	123.6	117.5	113.1	112.3	109.0	104.2	104.1	105.4	-

*Heat is included

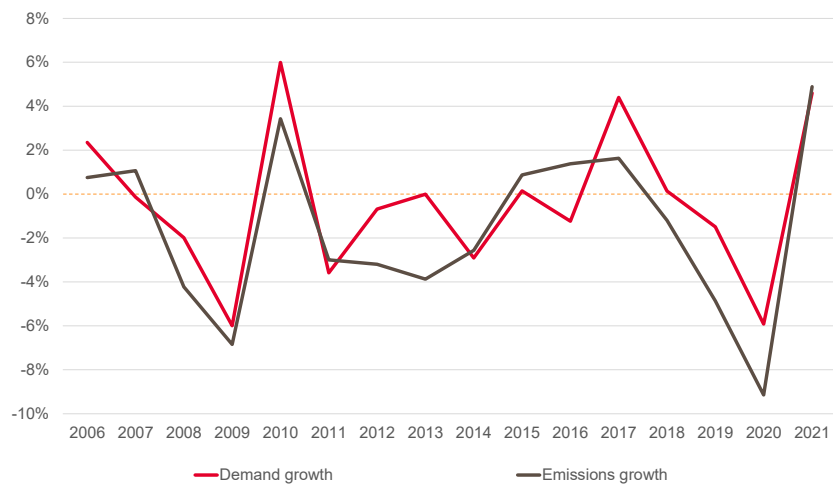
Primary energy demand mix



Electricity generation by source



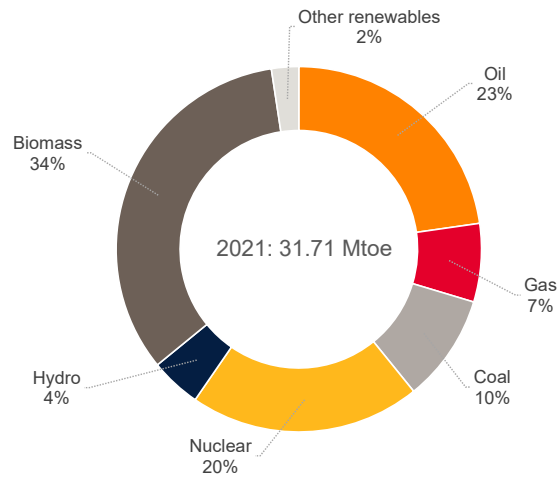
Primary energy demand and CO₂ emissions growth



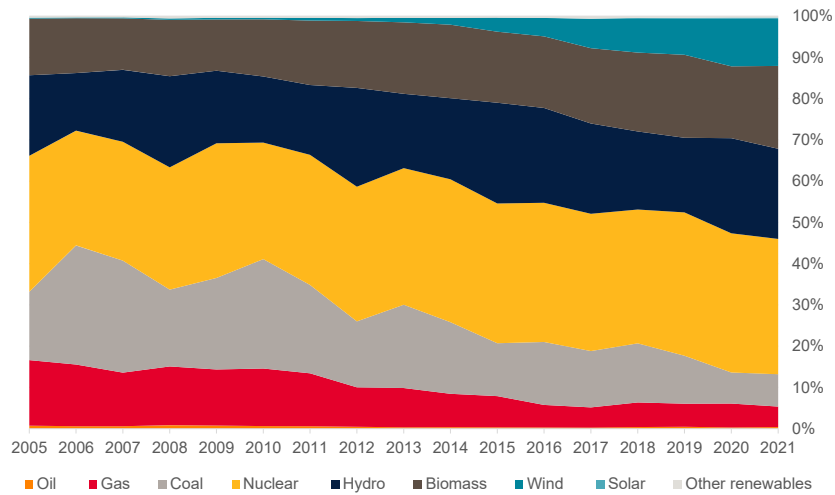
Finland (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	34.2	33.6	34.3	32.7	33.9	33.8	34.3	33.6	32.0	31.7	100.0
Oil	8.9	7.9	9.0	8.0	8.8	8.4	8.3	7.9	7.8	6.8	21.6
Gas	3.0	2.9	2.5	2.2	2.1	1.9	2.2	2.1	2.1	2.1	6.6
Coal	4.6	5.1	4.5	4.1	4.3	4.1	4.2	3.5	2.9	2.9	9.0
Nuclear	6.0	6.2	6.1	6.1	6.0	5.9	5.9	6.2	6.1	6.1	19.4
Hydro	1.4	1.1	1.2	1.4	1.4	1.3	1.1	1.1	1.4	1.4	4.3
Biomass	8.6	8.9	9.3	9.1	9.3	9.8	10.1	10.3	9.7	10.1	31.8
Other renewables	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.7	0.7	2.3
Electricity balance of trade*	1.6	1.5	1.7	1.5	1.8	1.9	1.9	1.9	1.4	1.6	5.2
Total final consumption, by source	25.4	25.5	25.4	24.8	26.0	26.0	26.4	25.9	24.6	24.5	100.0
Oil	7.6	7.9	7.5	7.3	7.8	7.4	7.5	7.2	7.0	6.6	27.1
Gas	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.8	3.2
Coal	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.8	0.8	3.4
Electricity	6.9	6.9	6.8	6.8	7.0	7.0	7.1	7.0	6.6	7.0	28.7
Heat	4.3	4.1	4.0	3.8	4.1	4.0	4.0	3.9	3.6	3.5	14.5
Biomass	5.0	5.0	5.5	5.4	5.5	5.9	6.1	6.2	5.8	5.7	23.1
Electricity generation, by source	6.1	6.1	5.9	5.9	5.9	5.8	6.0	5.9	5.9	6.2	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Gas	0.6	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.3	5.0
Coal	1.0	1.2	1.0	0.8	0.9	0.8	0.9	0.7	0.4	0.5	7.8
Nuclear	2.0	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.0	32.8
Hydro	1.4	1.1	1.2	1.4	1.4	1.3	1.1	1.1	1.4	1.4	21.8
Biomass	1.0	1.1	1.0	1.0	1.0	1.1	1.2	1.2	1.0	1.2	20.1
Wind	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.7	0.7	11.4
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	0.0	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	25.4	25.5	25.4	24.8	26.0	26.0	26.4	25.9	24.6	24.5	100.0
Industry	10.7	10.6	10.6	10.5	10.9	11.1	11.5	11.3	10.6	10.6	43.2
Transport	4.3	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.0	4.2	17.1
Residential/Commercial	8.4	8.0	7.9	7.6	8.2	8.1	8.1	8.0	7.5	7.6	31.1
Oil final consumption, by sector	7.6	7.9	7.5	7.3	7.8	7.4	7.5	7.2	7.0	6.6	100.0
Industry	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.0	1.0	0.9	13.2
Transport	4.1	4.0	3.7	3.7	4.1	3.8	3.9	3.8	3.5	3.6	54.8
Residential/Commercial	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	6.8
Natural gas final consumption, by sector	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.8	0.8	100.0
Industry	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.6	80.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	6.1
Refined products consumption	7.6	7.9	7.5	7.3	7.8	7.4	7.5	7.2	7.0	6.6	100.0
Gasoline	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.2	18.2
Diesel	4.1	4.0	3.7	3.6	4.0	3.8	3.9	3.7	3.6	3.7	56.0
Heating Oil	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	2.3
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	2.4
LPG	0.5	1.1	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.0	15.3
Imports	19.7	21.4	20.6	18.8	20.5	19.9	20.2	20.2	19.4	15.8	100.0
Oil	16.7	18.5	18.0	16.5	18.5	18.0	18.0	18.1	17.2	13.7	86.6
Gas	3.0	2.9	2.5	2.2	2.1	1.9	2.2	2.1	2.1	2.1	13.4
Gasoline	0.1	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	3.6
Diesel	2.4	3.2	2.2	1.8	2.0	1.8	1.6	1.6	2.0	1.5	9.4
Heating Oil	0.8	0.8	1.2	1.1	1.2	0.9	0.4	0.6	0.4	0.9	5.4
Aviation Jet	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.8
LPG	0.3	0.8	0.9	0.9	0.8	0.8	0.9	0.9	0.9	1.0	6.0
Exports	7.7	9.2	8.7	7.0	9.2	9.1	9.0	9.7	8.9	7.2	100.0
Oil	7.7	9.2	8.7	7.0	9.2	9.1	9.0	9.7	8.9	7.2	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	2.6	3.2	3.2	2.5	3.1	3.2	3.1	3.5	3.1	2.7	38.0
Diesel	3.2	4.1	3.8	3.0	3.9	3.8	3.7	3.9	3.5	2.5	34.4
Heating Oil	1.1	1.1	0.8	0.8	1.3	1.1	1.1	1.1	1.1	0.9	12.3
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	50.9	51.9	47.8	44.4	47.9	45.1	46.4	42.9	38.3	38.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	217.0	223.4	206.4	190.9	199.9	182.7	185.9	169.5	154.8	151.2	-
Final energy intensity (toe/million \$15ppp)	103.9	102.8	102.7	100.3	101.9	99.0	99.5	96.7	92.9	90.9	-
Total energy intensity (toe/million \$15ppp)	145.7	144.7	148.2	140.3	141.7	136.7	137.2	132.8	129.5	124.0	-

*Heat is included

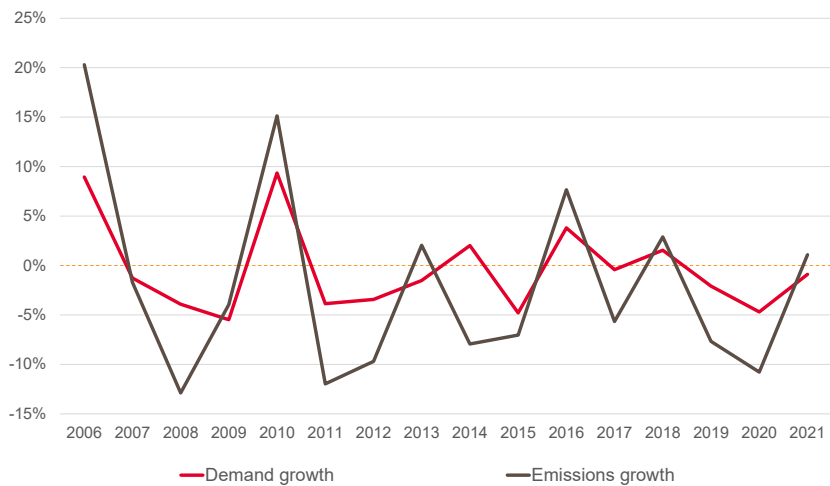
Primary energy demand mix



Electricity generation by source



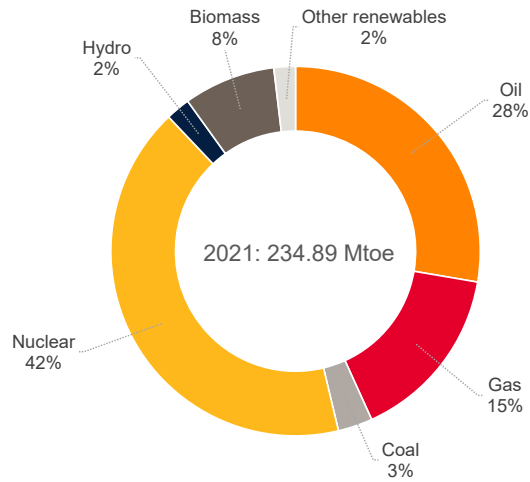
Primary energy demand and CO₂ emissions growth



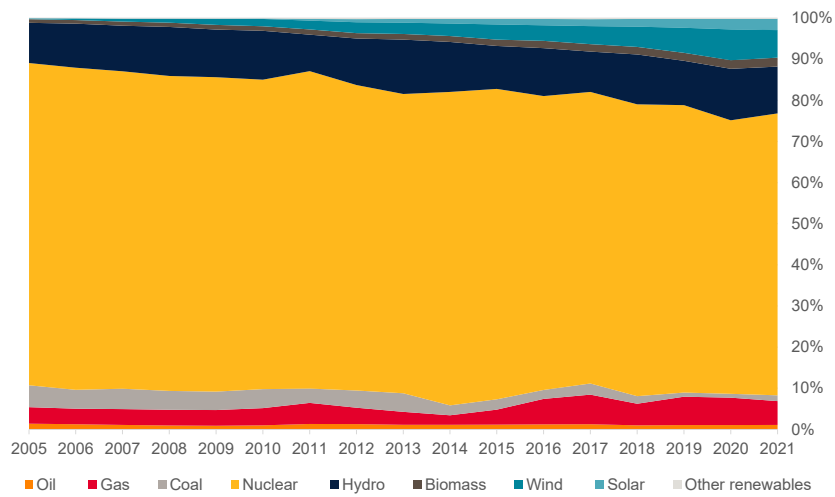
France (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	257.6	258.7	248.6	252.3	247.6	247.4	245.8	242.2	218.1	234.9	100.0
Oil	77.1	75.2	74.6	75.3	72.8	73.3	70.5	70.9	62.2	65.9	28.0
Gas	38.2	38.8	32.6	35.0	38.3	38.5	36.8	37.5	34.9	37.0	15.8
Coal	12.5	13.2	9.8	9.3	9.1	9.9	9.1	7.3	5.3	7.2	3.1
Nuclear	110.9	110.4	113.7	114.0	105.1	103.8	107.6	104.0	92.2	99.2	42.2
Hydro	5.1	6.2	5.5	4.8	5.2	4.3	5.6	4.9	5.3	5.1	2.2
Biomass	15.5	16.7	15.6	16.4	17.5	17.5	17.6	17.9	16.8	19.1	8.1
Other renewables	1.7	1.8	2.0	2.5	2.6	2.9	3.4	4.0	4.6	4.5	1.9
Electricity balance of trade*	-3.4	-3.7	-5.3	-5.0	-3.1	-2.9	-4.8	-4.4	-3.3	-3.0	-1.3
Total final consumption, by source	161.3	163.8	153.7	155.7	157.5	157.3	153.6	152.0	139.6	151.1	100.0
Oil	70.6	70.1	69.0	69.0	67.6	68.3	65.9	65.7	58.7	63.7	42.2
Gas	33.0	34.3	29.0	29.8	31.2	30.4	30.1	29.4	27.4	29.9	19.8
Coal	4.5	4.6	4.7	4.4	4.3	4.5	3.9	3.4	2.8	3.0	2.0
Electricity	38.1	38.7	36.5	37.4	38.0	37.7	37.5	37.1	35.3	37.3	24.7
Heat	3.5	3.6	3.3	3.6	4.0	4.1	3.9	4.1	4.0	4.0	2.6
Biomass	11.7	12.5	11.2	11.7	12.4	12.3	12.2	12.4	11.4	13.2	8.7
Electricity generation, by source	49.3	50.1	49.2	49.8	48.5	48.3	50.0	49.1	45.7	47.7	100.0
Oil	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	1.1
Gas	2.0	1.6	1.1	1.8	3.0	3.5	2.6	3.4	3.0	2.8	5.8
Coal	2.1	2.3	1.2	1.3	1.1	1.3	0.9	0.5	0.4	0.7	1.4
Nuclear	36.6	36.4	37.5	37.6	34.7	34.3	35.5	34.3	30.4	32.7	68.6
Hydro	5.6	6.6	6.0	5.2	5.6	4.7	6.1	5.3	5.7	5.4	11.4
Biomass	0.6	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.0	1.0	2.2
Wind	1.3	1.4	1.5	1.8	1.8	2.1	2.5	3.0	3.4	3.2	6.7
Solar	0.4	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.2	1.3	2.7
Other renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Total final consumption, by sector	161.3	163.8	153.7	155.7	157.5	157.3	153.6	152.0	139.6	151.1	100.0
Industry	32.4	32.6	31.5	30.9	31.6	30.8	30.7	29.8	27.6	28.6	18.9
Transport	45.5	45.2	45.5	45.9	46.0	46.3	45.4	45.5	38.6	43.7	28.9
Residential/Commercial	65.0	67.6	57.8	60.5	62.2	61.7	59.8	59.0	56.4	61.0	40.4
Oil final consumption, by sector	70.6	70.1	69.0	69.0	67.6	68.3	65.9	65.7	58.7	63.7	100.0
Industry	3.1	3.0	2.9	2.9	2.8	2.6	2.7	2.7	2.6	2.7	4.3
Transport	41.9	41.6	41.6	41.9	42.0	42.2	41.3	41.2	35.0	39.5	62.0
Residential/Commercial	9.5	9.6	8.1	8.3	7.7	7.8	7.1	6.7	6.6	6.3	9.9
Natural gas final consumption, by sector	33.0	34.3	29.0	29.8	31.2	30.4	30.1	29.4	27.4	29.9	100.0
Industry	11.7	12.1	11.3	10.9	11.2	10.5	11.0	10.5	9.9	9.9	33.1
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.9
Residential/Commercial	20.0	20.9	16.4	17.5	18.6	18.4	17.6	17.4	16.0	18.4	61.6
Refined products consumption	70.6	70.1	69.0	69.0	67.6	68.3	65.9	65.7	58.7	63.7	100.0
Gasoline	7.2	7.0	7.0	7.1	7.2	7.5	7.7	8.2	7.0	8.4	13.2
Diesel	45.9	46.0	44.6	45.3	44.5	44.4	42.5	41.3	36.8	39.3	61.6
Heating Oil	0.8	0.7	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.2
Aviation Jet	2.0	1.9	1.9	1.8	1.7	1.8	1.9	1.9	1.3	1.4	2.2
LPG	3.9	4.2	4.5	4.4	4.3	4.2	4.2	4.6	3.8	3.9	6.1
Imports	145.9	144.1	140.5	142.5	140.4	144.0	141.1	144.2	119.4	121.7	100.0
Oil	103.5	101.6	100.3	103.2	99.2	100.8	97.2	95.3	78.1	81.0	66.6
Gas	42.4	42.5	40.2	39.4	41.2	43.2	43.9	48.9	41.2	40.7	33.4
Gasoline	0.4	0.4	0.5	0.7	1.3	1.5	1.4	1.6	1.4	2.7	2.2
Diesel	24.0	24.5	24.0	25.2	22.8	22.3	22.8	24.8	25.5	25.1	20.6
Heating Oil	6.3	5.4	5.4	3.6	4.0	3.4	3.3	2.8	1.9	1.4	1.2
Aviation Jet	4.2	4.4	4.5	4.8	4.7	4.5	5.9	6.2	4.1	5.1	4.2
LPG	3.2	3.6	4.1	3.9	3.8	3.6	3.5	3.7	3.3	3.6	3.0
Exports	25.4	23.7	25.7	26.2	24.2	26.1	25.6	27.2	21.3	18.3	100.0
Oil	20.0	19.2	19.3	21.4	20.9	20.6	20.3	17.5	13.2	13.1	71.9
Gas	5.4	4.5	6.4	4.9	3.3	5.4	5.3	9.7	8.2	5.1	28.1
Gasoline	4.5	3.7	4.0	4.3	4.8	4.6	3.3	2.8	2.3	2.2	12.0
Diesel	2.9	2.0	1.8	2.8	2.1	2.6	2.2	2.6	1.5	1.5	8.3
Heating Oil	5.6	5.4	5.7	6.3	5.6	4.6	4.7	3.7	2.5	2.6	14.3
Aviation Jet	0.8	1.0	1.1	1.2	1.0	1.2	2.0	1.8	1.5	1.6	8.5
LPG	1.4	1.4	1.2	1.4	1.3	1.3	1.2	1.0	1.0	1.0	5.2
CO₂ Emissions (Million tons CO₂)	344.6	344.6	312.7	317.9	319.6	326.3	316.7	308.9	273.6	300.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	130.1	129.4	116.3	117.0	116.3	116.1	110.6	105.9	101.8	104.7	-
Final energy intensity (toe/million \$15ppp)	55.6	56.4	51.8	52.2	52.5	50.9	49.0	47.5	47.3	47.9	-
Total energy intensity (toe/million \$15ppp)	97.3	97.1	92.5	92.8	90.1	88.0	85.8	83.1	81.2	81.7	-

*Heat is included

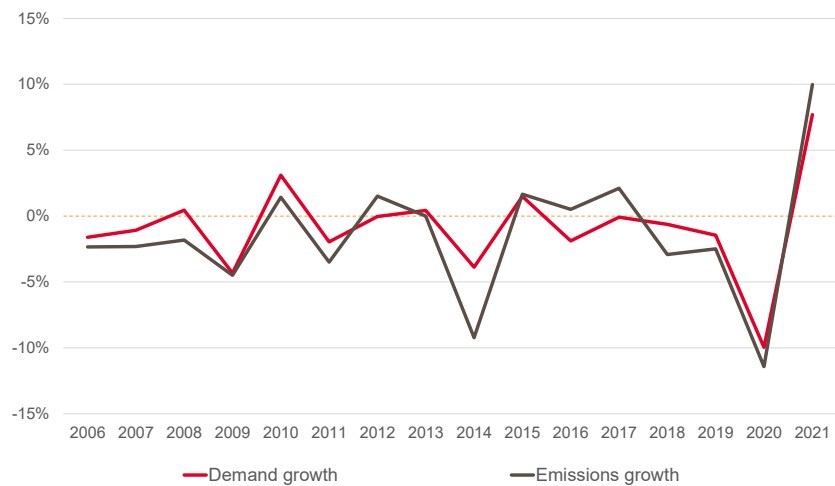
Primary energy demand mix



Electricity generation by source



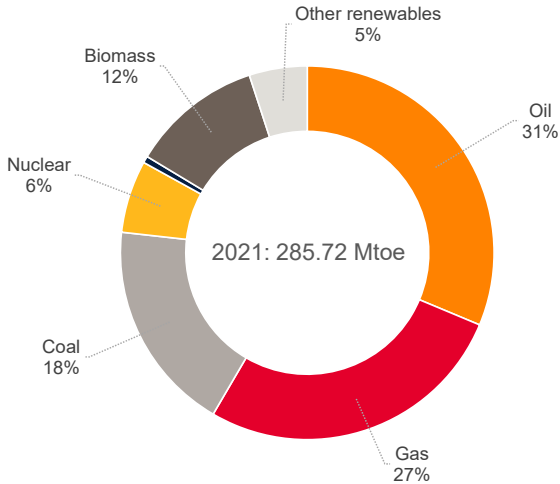
Primary energy demand and CO₂ emissions growth



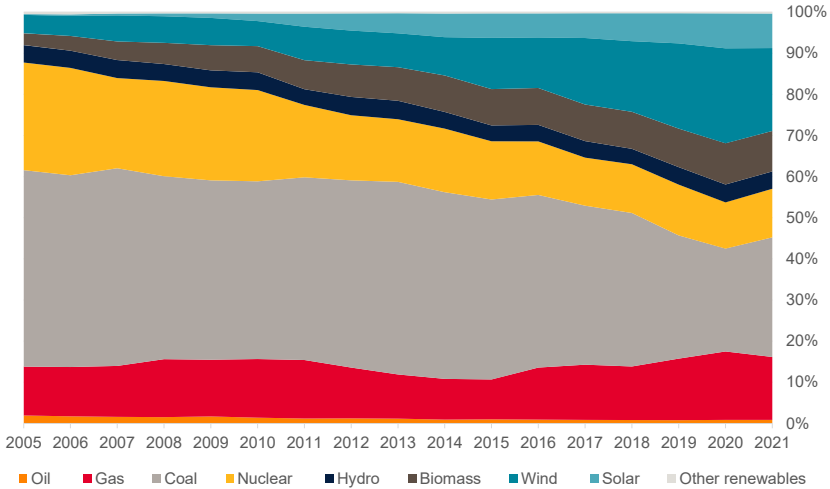
Germany (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	315.0	321.7	307.7	309.1	310.4	311.4	303.7	297.0	278.5	285.7	100.0
Oil	100.9	103.3	101.2	101.4	101.7	103.2	98.2	99.8	94.5	89.6	31.4
Gas	69.8	73.1	63.4	65.2	70.3	75.3	73.6	75.8	74.5	77.5	27.1
Coal	80.2	81.6	79.6	79.4	77.2	71.4	69.6	56.4	44.5	52.5	18.4
Nuclear	25.9	25.4	25.3	23.9	22.1	19.9	19.8	19.6	16.8	18.0	6.3
Hydro	1.9	2.0	1.7	1.6	1.8	1.7	1.5	1.7	1.6	1.6	0.6
Biomass	30.6	31.1	30.3	30.5	30.5	30.8	30.8	30.9	31.5	32.6	11.4
Other renewables	6.7	7.2	8.1	10.3	10.1	12.5	13.2	14.6	15.5	14.3	5.0
Electricity balance of trade*	-1.0	-1.9	-1.9	-3.1	-3.3	-3.5	-3.0	-1.7	-0.4	-0.5	-0.2
Total final consumption, by source	229.6	234.9	224.8	226.7	230.3	232.4	225.4	225.2	217.5	220.6	100.0
Oil	92.0	94.2	92.9	91.6	92.0	93.5	88.6	90.3	85.7	83.2	37.7
Gas	52.1	55.0	49.7	51.4	54.7	55.0	53.5	53.5	53.3	57.0	25.8
Coal	13.3	13.2	13.2	14.1	13.7	13.7	13.3	12.4	11.0	10.7	4.8
Electricity	45.1	44.9	44.0	44.3	44.5	44.6	43.8	42.7	41.3	42.4	19.2
Heat	10.9	11.0	9.9	10.3	10.5	10.6	10.4	10.4	9.8	10.0	4.5
Biomass	16.3	16.6	15.0	15.0	14.8	15.1	15.7	15.9	16.4	17.3	7.9
Electricity generation, by source	54.0	54.9	54.0	55.8	55.9	56.2	55.1	52.2	49.2	50.2	100.0
Oil	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.9
Gas	6.7	5.9	5.4	5.4	7.1	7.5	7.2	7.8	8.2	7.7	15.3
Coal	24.6	25.7	24.5	24.4	23.5	21.7	20.6	15.6	12.3	14.6	29.1
Nuclear	8.6	8.4	8.4	7.9	7.3	6.6	6.5	6.5	5.5	5.9	11.8
Hydro	2.4	2.5	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	4.2
Biomass	4.3	4.5	4.8	4.9	5.0	5.0	5.0	4.9	4.9	4.9	9.8
Wind	4.4	4.5	5.0	6.9	6.9	9.1	9.5	10.8	11.4	10.1	20.2
Solar	2.3	2.7	3.1	3.3	3.3	3.4	3.7	3.8	4.2	4.2	8.4
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3
Total final consumption, by sector	229.6	234.9	224.8	226.7	230.3	232.4	225.4	225.2	217.5	220.6	100.0
Industry	62.8	62.5	62.2	62.6	63.1	63.7	62.9	61.2	59.0	60.8	27.6
Transport	53.4	54.4	55.7	55.4	56.7	57.4	58.2	58.8	54.0	51.0	23.1
Residential/Commercial	90.1	94.8	83.2	85.9	87.4	87.1	81.9	82.7	82.6	85.4	38.7
Oil final consumption, by sector	92.0	94.2	92.9	91.6	92.0	93.5	88.6	90.3	85.7	83.2	100.0
Industry	3.2	3.0	2.8	3.0	2.4	2.1	3.3	3.2	3.4	3.3	4.0
Transport	49.1	50.4	51.5	51.5	52.8	53.4	54.2	54.9	49.4	46.8	56.2
Residential/Commercial	20.2	21.9	19.4	18.6	18.4	18.2	13.3	15.0	15.6	14.5	17.4
Natural gas final consumption, by sector	52.1	55.0	49.7	51.4	54.7	55.0	53.5	53.5	53.3	57.0	100.0
Industry	19.6	19.6	19.2	19.2	20.0	20.9	18.8	18.9	19.1	20.5	35.9
Transport	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	29.9	32.4	27.4	29.4	31.6	31.2	31.7	30.9	31.3	33.5	58.7
Refined products consumption	92.0	94.2	92.9	91.6	92.0	93.5	88.6	90.3	85.7	83.2	100.0
Gasoline	17.9	17.9	18.0	17.2	17.2	17.5	19.6	19.8	18.2	17.8	21.4
Diesel	50.7	53.3	51.6	51.5	52.6	53.2	50.0	52.1	49.7	45.8	55.1
Heating Oil	3.0	2.5	2.5	2.7	1.5	1.5	1.4	1.3	1.2	1.2	1.4
Aviation Jet	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.7	0.3	0.4	0.5
LPG	3.1	3.2	2.7	2.8	2.7	3.6	3.2	3.3	3.0	3.2	3.9
Imports	201.8	212.4	204.1	216.7	213.8	229.7	264.8	262.9	249.7	248.4	100.0
Oil	127.7	130.4	128.7	130.8	132.2	133.9	127.5	130.2	119.3	119.7	48.2
Gas	74.1	81.9	75.3	85.9	81.6	95.7	137.2	132.7	130.4	128.7	51.8
Gasoline	1.6	1.9	1.9	1.9	1.5	2.2	2.4	3.2	1.9	2.3	0.9
Diesel	13.9	18.2	17.4	18.8	19.8	19.9	18.9	20.3	18.0	16.8	6.8
Heating Oil	2.3	2.4	2.4	1.9	2.4	2.2	2.1	1.6	1.3	1.2	0.5
Aviation Jet	4.9	5.4	4.9	5.1	5.1	6.1	6.7	6.9	3.1	4.1	1.6
LPG	1.2	1.1	0.7	0.8	0.8	1.0	1.1	1.3	1.3	1.5	0.6
Exports	33.1	38.5	39.9	49.6	42.1	50.2	89.0	78.8	86.0	85.3	100.0
Oil	18.8	20.1	21.3	22.4	22.7	23.3	22.3	21.8	22.0	25.2	29.5
Gas	14.3	18.4	18.7	27.2	19.3	26.9	66.7	57.0	63.9	60.2	70.5
Gasoline	5.2	5.2	5.0	4.5	5.1	5.7	5.1	4.9	5.4	5.9	6.9
Diesel	6.4	7.1	7.9	8.5	9.6	9.1	8.2	7.4	8.3	9.2	10.8
Heating Oil	2.0	2.6	3.0	3.0	2.1	1.8	2.6	2.6	2.7	3.5	4.1
Aviation Jet	1.2	1.2	0.9	1.2	0.9	1.3	1.4	1.4	0.7	1.0	1.1
LPG	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3
CO₂ Emissions (Million tons CO₂)	769.3	787.4	751.8	751.6	761.3	740.8	712.8	688.1	612.8	651.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	206.1	210.0	196.2	193.3	191.5	181.5	172.7	160.2	154.0	159.3	-
Final energy intensity (toe/million \$15ppp)	55.7	56.9	52.9	52.8	52.5	51.4	50.0	49.5	50.1	49.1	-
Total energy intensity (toe/million \$15ppp)	84.4	85.8	80.3	79.5	78.1	76.3	73.6	71.2	70.0	69.9	-

*Heat is included

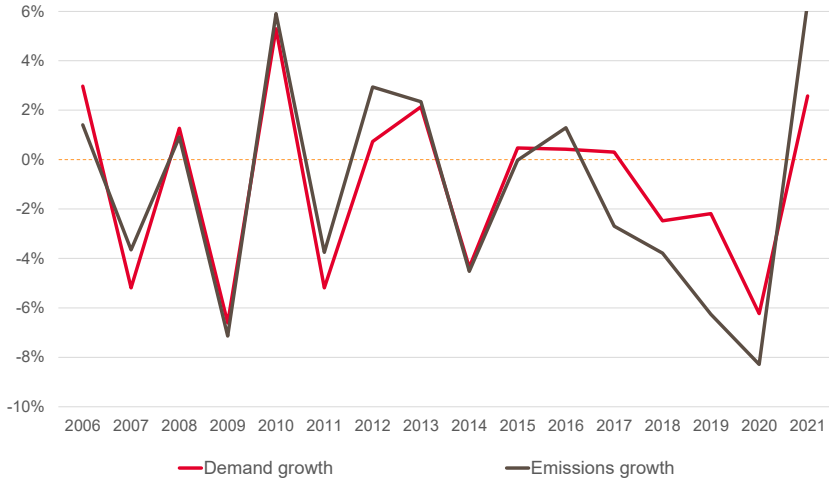
Primary energy demand mix



Electricity generation by source



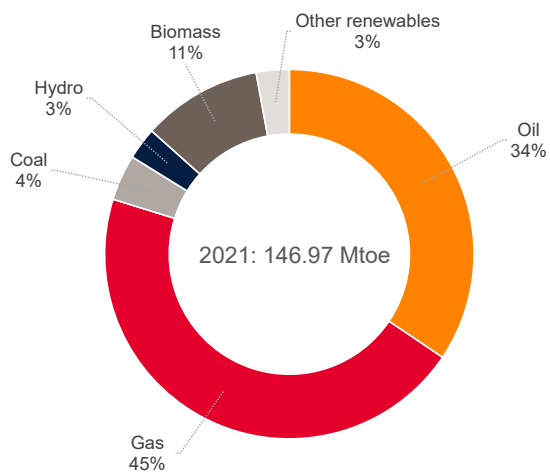
Primary energy demand and CO₂ emissions growth



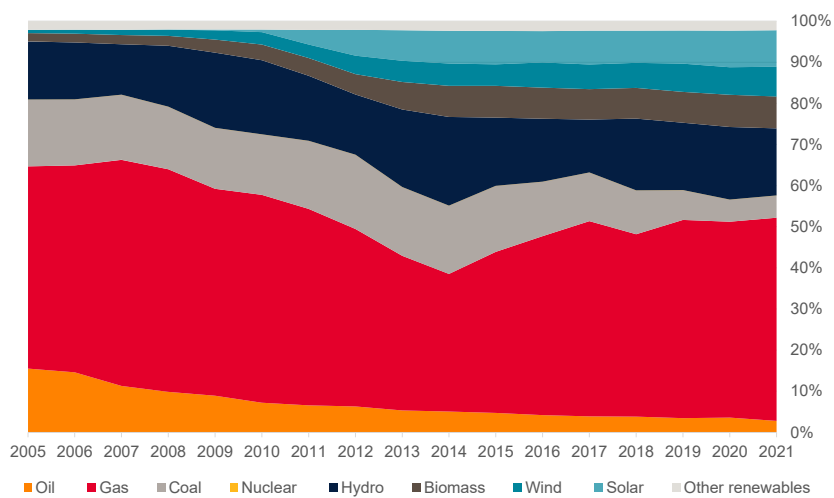
Italy (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	161.4	155.4	146.8	152.6	151.0	153.5	150.6	149.0	137.6	147.0	100.0
Oil	55.6	53.3	51.6	53.6	51.5	52.0	50.9	50.1	43.4	47.4	32.3
Gas	61.4	57.4	50.7	55.3	58.1	61.5	59.5	60.9	58.3	62.5	42.5
Coal	15.7	13.5	13.1	12.3	11.0	9.3	8.6	6.5	5.1	5.5	3.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.6	4.5	5.0	3.9	3.6	3.1	4.2	4.0	4.1	3.9	2.6
Biomass	13.5	14.6	14.0	14.6	14.4	14.9	14.5	14.8	14.6	14.5	9.8
Other renewables	2.8	3.1	3.2	3.2	3.4	3.6	3.5	3.8	3.8	4.0	2.7
Electricity balance of trade*	8.9	8.9	9.2	9.7	9.0	9.0	9.4	8.9	8.4	9.2	6.2
Total final consumption, by source	126.5	121.7	117.4	119.6	118.9	119.6	119.5	118.3	107.9	116.7	100.0
Oil	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.3	38.3	43.1	37.0
Gas	35.7	35.5	31.2	33.4	33.7	34.4	34.0	33.5	32.3	34.9	29.9
Coal	3.5	2.6	2.7	2.0	2.2	1.6	1.7	1.6	1.3	1.5	1.3
Electricity	25.5	24.7	24.2	24.7	24.6	25.1	25.2	25.1	23.6	25.0	21.4
Heat	3.7	4.0	4.0	4.2	4.3	4.5	4.4	4.5	4.2	4.3	3.6
Biomass	8.6	8.5	7.4	8.3	8.0	8.6	8.3	8.3	8.1	7.9	6.8
Electricity generation, by source	25.7	24.9	24.1	24.3	24.9	25.4	24.9	25.3	24.1	24.7	100.0
Oil	1.6	1.3	1.2	1.2	1.0	1.0	0.9	0.9	0.9	0.7	2.8
Gas	11.1	9.4	8.1	9.5	10.8	12.1	11.1	12.2	11.5	12.2	49.4
Coal	4.7	4.2	4.0	3.9	3.3	3.0	2.7	1.8	1.3	1.3	5.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.8	4.7	5.2	4.0	3.8	3.3	4.3	4.1	4.3	4.0	16.3
Biomass	1.3	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	7.8
Wind	1.2	1.3	1.3	1.3	1.5	1.5	1.5	1.7	1.6	1.8	7.2
Solar	1.6	1.9	1.9	2.0	1.9	2.1	1.9	2.0	2.1	2.2	8.9
Other renewables	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	2.2
Total final consumption, by sector	126.5	121.7	117.4	119.6	118.9	119.6	119.5	118.3	107.9	116.7	100.0
Industry	28.7	26.6	26.0	26.0	26.2	25.7	25.4	25.6	24.5	26.3	22.5
Transport	36.8	35.9	37.2	36.3	35.9	34.5	35.6	35.8	28.9	33.5	28.7
Residential/Commercial	50.3	50.1	44.2	47.9	47.6	48.5	48.3	46.8	44.7	47.0	40.3
Oil final consumption, by sector	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.3	38.3	43.1	100.0
Industry	2.8	2.4	1.9	2.8	2.5	1.8	1.9	1.6	1.7	1.9	4.5
Transport	33.8	32.9	34.4	33.3	33.0	31.7	32.5	32.6	26.0	30.4	70.5
Residential/Commercial	3.4	3.3	2.8	2.9	2.8	2.6	2.7	2.5	2.4	2.4	5.5
Natural gas final consumption, by sector	35.7	35.5	31.2	33.4	33.7	34.4	34.0	33.5	32.3	34.9	100.0
Industry	9.0	8.7	8.5	8.3	8.4	8.9	8.6	8.5	8.1	8.7	25.0
Transport	0.8	0.8	0.9	0.9	0.9	0.8	0.9	1.0	0.8	0.8	2.4
Residential/Commercial	25.4	25.3	21.2	23.5	23.6	23.9	23.7	23.2	22.6	24.4	70.1
Refined products consumption	49.5	46.5	47.8	47.1	46.1	45.5	45.9	45.3	38.3	43.1	100.0
Gasoline	9.3	8.7	8.8	8.2	7.8	7.6	7.8	7.9	6.1	7.5	17.4
Diesel	26.7	25.8	26.8	26.2	26.1	24.6	25.6	25.2	21.0	23.9	55.5
Heating Oil	1.2	1.2	1.2	1.5	1.7	1.3	1.2	0.9	0.8	1.0	2.2
Aviation Jet	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.0	0.4	0.4	1.0
LPG	3.6	3.6	3.5	3.6	3.6	3.7	3.5	3.6	3.2	3.4	7.9
Imports	140.9	128.7	116.9	130.9	135.2	142.0	137.1	138.8	120.1	131.6	100.0
Oil	85.4	78.0	71.3	80.7	81.8	85.0	81.5	80.6	65.7	71.8	54.5
Gas	55.5	50.8	45.7	50.2	53.5	57.0	55.6	58.2	54.4	59.8	45.5
Gasoline	0.0	0.4	0.4	0.5	0.4	0.1	0.4	0.4	0.4	0.3	0.3
Diesel	2.1	3.1	3.2	3.1	4.5	5.1	5.4	5.3	4.7	4.9	3.7
Heating Oil	0.6	0.5	0.3	0.3	0.8	0.8	1.6	1.0	1.2	1.2	0.9
Aviation Jet	1.1	1.5	1.6	1.9	2.1	2.3	2.4	2.6	0.8	0.7	0.5
LPG	2.3	2.6	2.4	2.5	2.6	2.6	2.5	2.7	2.3	2.5	1.9
Exports	30.5	25.1	21.4	28.5	30.1	32.4	30.2	28.4	24.0	28.3	100.0
Oil	30.4	24.9	21.2	28.3	29.9	32.1	29.9	28.2	23.7	27.1	95.5
Gas	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	1.3	4.5
Gasoline	9.7	8.3	7.4	9.0	8.5	8.9	8.9	8.9	6.6	8.0	28.2
Diesel	10.9	8.6	5.6	9.1	9.5	10.4	9.1	9.8	7.8	8.2	28.8
Heating Oil	3.0	2.1	2.7	3.9	4.5	5.0	4.3	3.6	3.2	4.9	17.2
Aviation Jet	0.1	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.1	0.0	0.1
LPG	0.4	0.5	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.4	1.4
CO₂ Emissions (Million tons CO₂)	374.9	343.7	328.1	335.7	332.7	329.1	323.6	315.2	281.2	305.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	165.5	154.6	147.6	149.8	146.6	142.6	138.9	134.8	132.0	134.5	-
Final energy intensity (toe/million \$15ppp)	52.4	51.9	49.6	50.4	49.6	48.4	48.2	47.6	47.5	48.3	-
Total energy intensity (toe/million \$15ppp)	71.2	69.9	66.0	68.1	66.5	66.5	64.7	63.7	64.6	64.7	-

*Heat is included

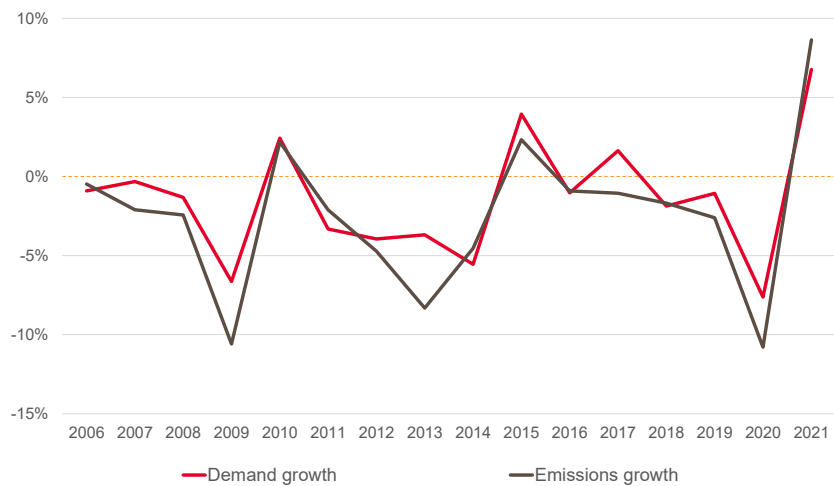
Primary energy demand mix



Electricity generation by source



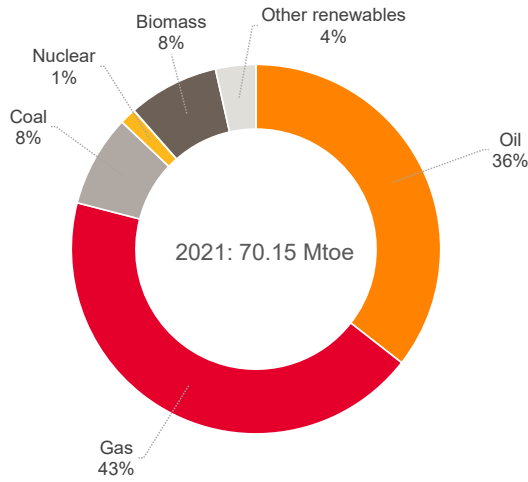
Primary energy demand and CO₂ emissions growth



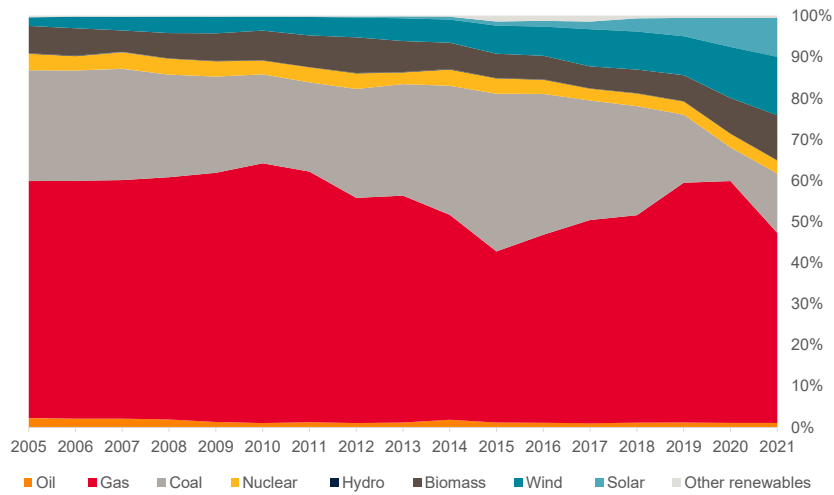
Netherlands (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	76.9	75.3	70.8	72.3	73.9	74.8	73.3	71.6	69.4	70.2	100.0
Oil	28.4	27.2	26.2	26.1	27.3	28.0	27.0	25.7	25.2	24.7	35.3
Gas	33.5	33.4	29.1	28.6	30.0	31.0	30.7	32.1	31.6	30.3	43.1
Coal	8.2	8.1	9.0	11.1	10.3	9.2	8.3	6.4	4.1	5.6	8.0
Nuclear	1.0	0.8	1.1	1.1	1.0	0.9	0.9	1.0	1.1	1.0	1.4
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.9	3.7	3.5	3.5	3.6	3.8	4.1	4.4	5.2	5.5	7.9
Other renewables	0.4	0.5	0.6	0.7	0.8	1.1	1.2	1.5	2.1	2.5	3.5
Electricity balance of trade*	1.5	1.6	1.3	1.1	0.8	0.7	1.0	0.5	0.3	0.6	0.8
Total final consumption, by source	62.2	61.3	56.6	56.9	58.5	59.6	59.2	57.6	56.1	56.2	100.0
Oil	25.2	24.3	23.2	23.4	24.4	25.1	24.7	23.3	23.0	22.0	39.2
Gas	22.0	22.1	18.8	19.2	19.7	19.9	19.5	19.2	18.4	20.0	35.6
Coal	2.2	2.1	2.1	1.9	1.9	2.0	1.9	1.9	1.6	1.3	2.4
Electricity	9.0	9.0	8.7	8.9	9.0	9.1	9.4	9.4	9.4	9.3	16.5
Heat	2.7	2.7	2.7	2.4	2.3	2.2	2.1	2.2	2.1	2.0	3.6
Biomass	1.1	1.1	1.2	1.1	1.1	1.2	1.5	1.6	1.5	1.5	2.7
Electricity generation, by source	8.9	8.7	8.9	9.5	9.9	10.1	9.8	10.4	10.6	10.3	100.0
Oil	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Gas	4.9	4.8	4.4	3.9	4.5	5.0	5.0	6.1	6.2	4.8	46.2
Coal	2.3	2.4	2.8	3.6	3.4	2.9	2.6	1.7	0.9	1.5	14.5
Nuclear	0.3	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	3.2
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Biomass	0.8	0.7	0.6	0.6	0.6	0.5	0.6	0.7	0.9	1.1	10.9
Wind	0.4	0.5	0.5	0.6	0.7	0.9	0.9	1.0	1.3	1.5	14.2
Solar	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.0	9.5
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4
Total final consumption, by sector	62.2	61.3	56.6	56.9	58.5	59.6	59.2	57.6	56.1	56.2	100.0
Industry	15.3	15.0	14.8	14.4	15.0	15.2	15.0	14.5	14.4	14.4	25.6
Transport	11.3	11.0	10.3	10.4	10.4	10.6	11.0	10.9	9.4	8.6	15.4
Residential/Commercial	18.1	18.6	15.4	16.2	16.5	16.4	16.4	16.0	15.5	16.2	28.8
Oil final consumption, by sector	25.2	24.3	23.2	23.4	24.4	25.1	24.7	23.3	23.0	22.0	100.0
Industry	3.1	2.9	3.0	2.9	3.2	3.2	3.3	3.0	3.3	3.2	14.7
Transport	10.8	10.5	9.8	9.9	10.0	10.1	10.2	10.0	8.6	7.8	35.5
Residential/Commercial	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	1.0
Natural gas final consumption, by sector	22.0	22.1	18.8	19.2	19.7	19.9	19.5	19.2	18.4	20.0	100.0
Industry	4.8	4.8	4.6	4.7	4.9	5.1	5.0	4.9	4.9	5.4	26.8
Transport	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Residential/Commercial	11.7	12.2	9.3	9.9	10.2	10.0	9.8	9.4	8.9	9.7	48.3
Refined products consumption	22.6	21.7	20.5	21.2	22.2	22.9	23.0	21.8	21.4	20.3	100.0
Gasoline	3.9	3.8	3.7	3.8	3.9	4.0	4.1	4.2	3.5	3.6	17.9
Diesel	7.5	7.5	6.9	7.1	7.0	7.0	7.1	6.8	6.1	5.0	24.6
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LPG	1.2	2.0	2.6	2.7	2.3	2.0	2.3	2.0	2.1	1.8	9.0
Imports	169.4	167.2	164.6	185.4	189.5	191.3	194.8	191.6	175.4	183.3	100.0
Oil	149.3	145.4	142.3	156.3	156.7	152.4	151.2	149.1	132.6	142.1	77.5
Gas	20.1	21.8	22.3	29.2	32.9	38.9	43.6	42.5	42.9	41.2	22.5
Gasoline	12.2	9.9	9.7	10.2	10.2	10.9	7.9	7.5	7.8	8.8	4.8
Diesel	18.8	18.4	15.9	16.9	19.4	17.3	12.5	13.2	12.0	9.0	4.9
Heating Oil	32.8	33.2	34.4	37.8	31.0	15.7	12.8	11.5	19.5	26.6	14.5
Aviation Jet	2.7	4.0	2.7	3.2	4.6	3.8	3.5	3.6	4.2	4.7	2.6
LPG	1.7	2.8	3.7	4.9	4.0	3.5	4.3	3.6	3.6	3.5	1.9
Exports	149.7	154.1	146.8	152.2	158.1	152.8	150.2	141.4	121.8	140.1	100.0
Oil	104.2	103.3	102.7	112.6	115.3	112.6	111.2	107.2	93.2	109.1	77.9
Gas	45.5	50.8	44.1	39.7	42.7	40.2	39.0	34.2	28.6	31.0	22.1
Gasoline	19.6	17.7	19.3	21.4	20.1	20.4	23.9	26.6	20.9	25.6	18.3
Diesel	30.2	30.4	28.6	27.6	31.1	30.1	24.1	25.3	24.1	28.2	20.1
Heating Oil	27.9	27.7	28.9	35.1	31.1	14.8	11.1	9.5	18.2	23.2	16.6
Aviation Jet	6.0	7.0	6.3	6.8	8.5	7.8	8.5	8.4	6.2	5.8	4.2
LPG	1.7	1.5	1.8	2.7	2.6	2.2	2.3	2.3	2.0	2.5	1.8
CO₂ Emissions (Million tons CO₂)	175.7	173.9	167.1	175.3	176.4	173.9	168.4	162.2	145.5	147.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	213.0	211.1	200.0	205.8	202.6	194.1	183.7	173.5	161.8	156.0	-
Final energy intensity (toe/million \$15ppp)	58.8	58.9	52.7	52.6	52.5	51.3	50.6	48.7	48.0	45.7	-
Total energy intensity (toe/million \$15ppp)	93.2	91.4	84.8	84.9	84.9	83.5	79.9	76.6	77.2	74.3	-

*Heat is included

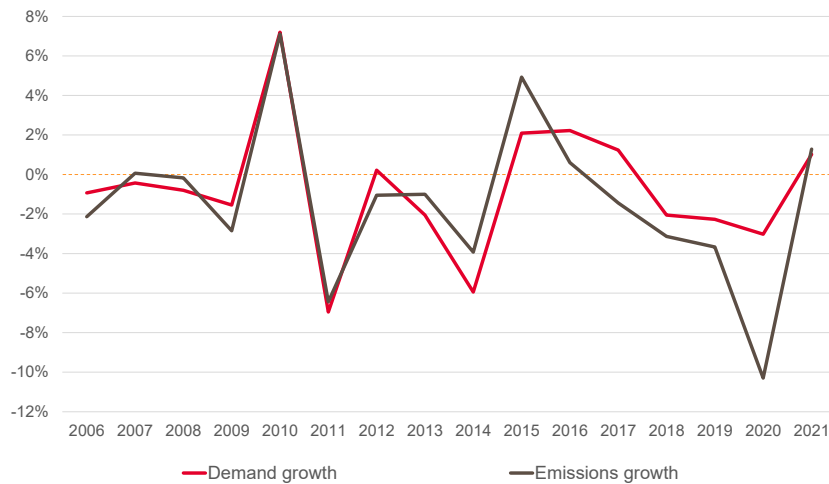
Primary energy demand mix



Electricity generation by source



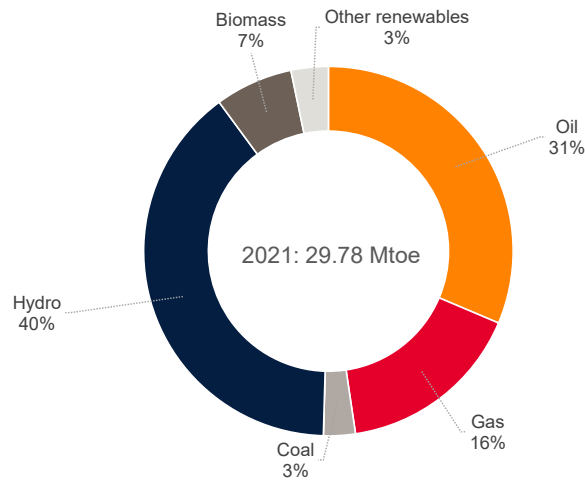
Primary energy demand and CO₂ emissions growth



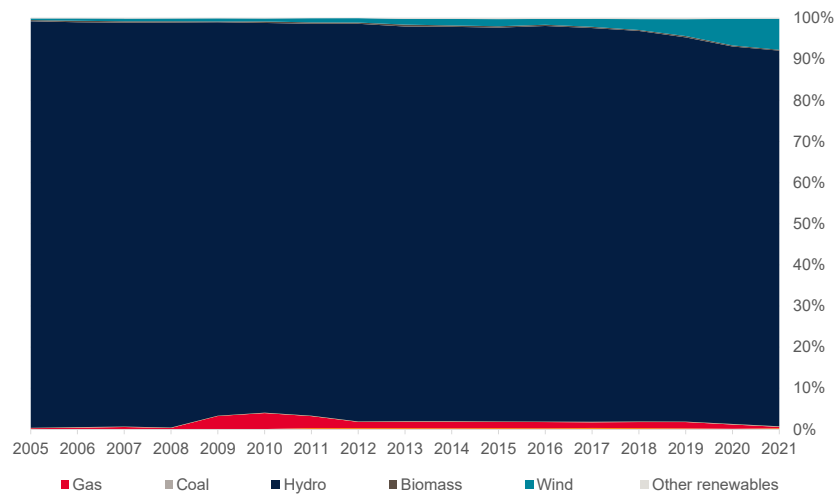
Norway (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	31.5	33.1	28.7	29.5	28.3	29.9	30.2	28.1	27.8	29.8	100.0
Oil	12.6	14.2	10.1	10.1	9.1	10.8	10.5	8.8	9.1	9.8	32.9
Gas	5.5	5.6	5.7	6.2	5.6	5.0	5.6	5.0	4.6	5.1	17.1
Coal	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	2.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	12.2	11.0	11.7	11.8	12.3	12.2	11.9	10.8	12.1	12.3	41.4
Biomass	1.7	1.7	1.4	1.5	1.7	1.9	1.9	2.0	1.9	2.1	7.1
Other renewables	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	1.0	3.4
Electricity balance of trade*	-1.5	-0.3	-1.2	-1.1	-1.3	-1.2	-0.8	0.1	-1.7	-1.4	-4.8
Total final consumption, by source	20.9	20.9	20.5	20.9	21.0	21.2	21.3	21.4	20.7	21.4	100.0
Oil	8.2	8.2	8.2	8.2	8.0	7.8	8.0	7.7	7.4	7.6	35.6
Gas	0.8	0.9	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.9	4.0
Coal	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8	3.8
Electricity	9.5	9.5	9.3	9.6	9.8	9.8	10.0	9.9	9.7	10.1	47.0
Heat	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	2.7
Biomass	1.3	1.2	1.0	1.0	1.2	1.4	1.3	1.5	1.4	1.5	6.9
Electricity generation, by source	12.7	11.5	12.2	12.4	12.8	12.9	12.6	11.6	13.3	13.5	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.3
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	12.3	11.1	11.7	11.9	12.3	12.3	12.0	10.9	12.2	12.4	91.4
Biomass	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Wind	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	1.0	7.5
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	20.9	20.9	20.5	20.9	21.0	21.2	21.3	21.4	20.7	21.4	100.0
Industry	6.1	6.2	6.0	6.1	6.1	6.2	6.4	6.3	6.4	6.8	31.6
Transport	5.0	4.9	5.1	5.0	5.0	5.0	4.8	4.9	4.5	4.7	22.1
Residential/Commercial	7.0	7.0	6.5	6.7	7.0	7.0	7.0	7.0	6.7	6.9	32.4
Oil final consumption, by sector	8.2	8.2	8.2	8.2	8.0	7.8	8.0	7.7	7.4	7.6	100.0
Industry	0.9	1.0	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	12.0
Transport	4.7	4.7	4.8	4.7	4.5	4.2	4.2	4.1	3.9	4.1	53.4
Residential/Commercial	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	4.2
Natural gas final consumption, by sector	0.8	0.9	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.9	100.0
Industry	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	33.4
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	11.3
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Refined products consumption	8.2	8.2	8.2	8.2	8.0	7.8	8.0	7.7	7.4	7.6	100.0
Gasoline	1.1	1.0	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.6	8.4
Diesel	4.3	4.4	4.4	4.4	4.4	4.1	4.3	4.1	4.0	4.3	56.2
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	0.3	0.4	0.3	0.3	3.6
LPG	0.9	0.9	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5	6.9
Imports	5.8	6.8	5.5	6.5	6.3	7.9	9.1	9.3	9.2	8.9	100.0
Oil	5.8	6.8	5.5	6.5	6.3	7.9	9.1	9.2	9.2	8.7	98.5
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5
Gasoline	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.4	0.5	5.3
Diesel	1.5	1.3	1.1	1.7	1.8	1.8	1.6	2.1	2.5	2.8	31.8
Heating Oil	1.2	1.9	1.2	1.6	1.3	1.8	1.4	1.0	0.8	0.9	9.7
Aviation Jet	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.2	2.3
LPG	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.3	0.2	0.3	3.0
Exports	177.7	167.6	171.3	181.9	185.0	192.2	184.2	177.2	187.6	193.6	100.0
Oil	81.6	76.9	81.3	85.1	88.3	88.2	82.9	81.3	94.1	98.0	50.6
Gas	96.0	90.7	90.0	96.7	96.8	104.0	101.3	95.9	93.5	95.6	49.4
Gasoline	2.6	2.3	2.2	3.3	3.5	3.8	4.1	3.8	3.3	4.1	2.1
Diesel	2.6	2.7	2.8	3.4	2.8	4.4	4.2	4.2	3.4	4.0	2.0
Heating Oil	1.6	1.9	1.5	1.4	1.0	1.4	1.4	1.6	1.6	0.8	0.4
Aviation Jet	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	39.2	39.9	40.2	41.0	39.9	39.8	39.5	38.6	36.8	37.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	131.5	132.4	130.9	130.8	126.0	123.0	120.6	117.0	112.3	111.0	-
Final energy intensity (toe/million \$15ppp)	62.5	61.8	59.1	58.6	58.9	57.8	57.4	57.0	55.6	55.9	-
Total energy intensity (toe/million \$15ppp)	105.6	109.8	93.5	94.3	89.5	92.4	92.3	85.1	84.8	87.5	-

*Heat is included

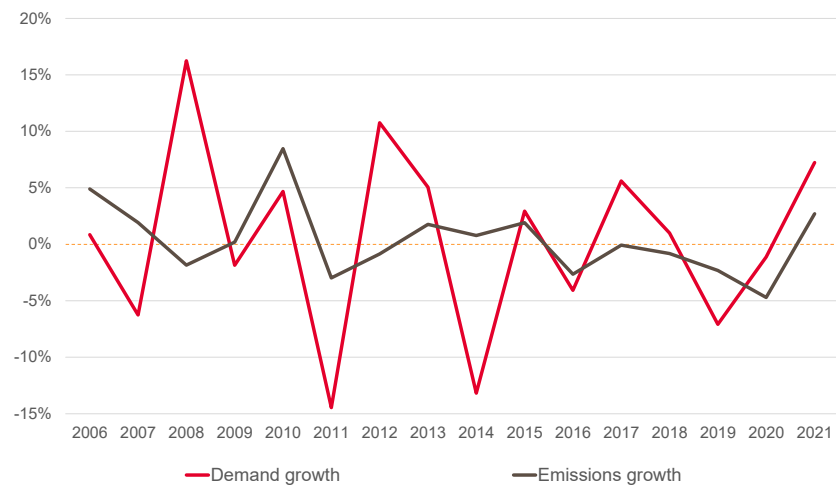
Primary energy demand mix



Electricity generation by source



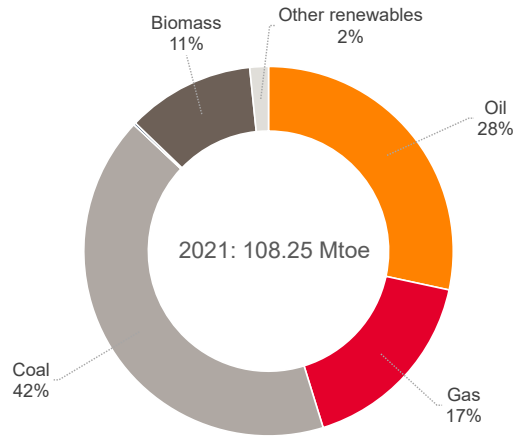
Primary energy demand and CO₂ emissions growth



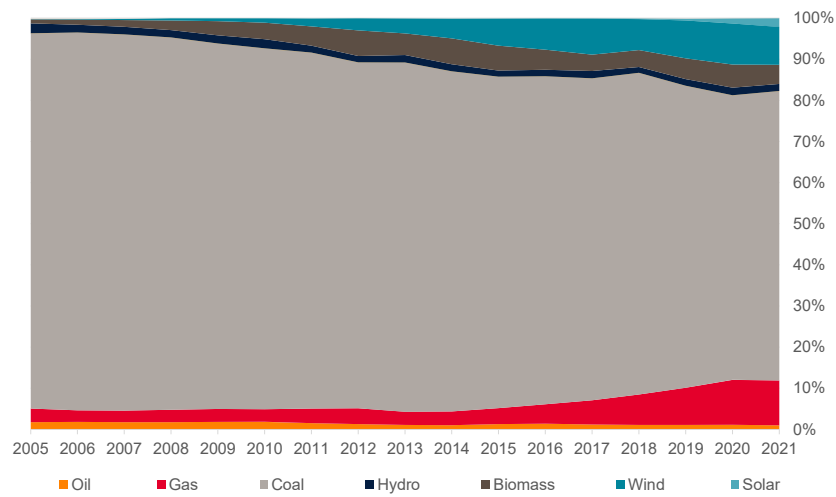
Poland (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	98.1	98.2	94.6	95.6	99.9	104.5	109.5	105.5	102.3	108.2	100.0
Oil	24.8	22.8	22.6	24.0	26.4	29.7	30.4	30.8	29.5	30.7	28.3
Gas	13.7	13.7	13.4	13.8	14.6	15.4	16.1	16.2	17.1	18.2	16.8
Coal	50.9	53.0	49.3	48.3	49.1	49.4	49.4	44.0	40.9	45.2	41.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Biomass	8.4	8.3	8.2	8.3	8.1	8.1	11.7	11.9	11.9	12.1	11.2
Other renewables	0.4	0.5	0.7	0.9	1.1	1.3	1.1	1.4	1.5	1.8	1.6
Electricity balance of trade*	-0.2	-0.3	0.3	0.1	0.3	0.3	0.6	1.0	1.3	0.2	0.2
Total final consumption, by source	68.6	67.4	65.9	67.1	71.3	75.7	79.2	78.0	76.2	78.7	100.0
Oil	22.0	20.9	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.1	37.0
Gas	10.5	10.5	10.0	10.3	11.0	11.0	10.9	10.8	10.9	11.5	14.6
Coal	13.8	13.4	12.9	12.4	12.7	13.0	12.4	10.7	10.3	10.1	12.9
Electricity	10.5	10.6	10.8	11.0	11.4	11.7	12.1	12.1	11.8	12.5	15.9
Heat	6.0	6.0	5.5	5.5	5.7	5.9	5.7	5.7	5.7	5.7	7.2
Biomass	5.8	6.0	5.7	5.9	6.1	6.4	9.9	9.7	9.5	9.7	12.4
Electricity generation, by source	13.9	14.2	13.7	14.2	14.3	14.7	14.6	14.1	13.6	15.5	100.0
Oil	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0
Gas	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.3	1.5	1.7	10.9
Coal	11.7	12.0	11.3	11.4	11.4	11.5	11.4	10.4	9.4	10.9	70.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	1.7
Biomass	0.9	0.7	0.9	0.9	0.7	0.6	0.6	0.7	0.8	0.7	4.7
Wind	0.4	0.5	0.7	0.9	1.1	1.3	1.1	1.3	1.4	1.4	9.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	2.1
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	68.6	67.4	65.9	67.1	71.3	75.7	79.2	78.0	76.2	78.7	100.0
Industry	14.6	15.1	15.2	15.3	15.8	17.0	17.5	17.6	16.8	16.9	21.4
Transport	16.4	15.4	15.4	16.2	18.2	21.0	21.9	22.4	21.4	22.8	28.9
Residential/Commercial	29.1	28.5	26.7	26.7	28.3	27.9	30.3	28.6	28.4	29.4	37.4
Oil final consumption, by sector	22.0	20.9	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.1	100.0
Industry	0.8	0.8	0.7	0.6	0.6	0.7	0.7	0.9	0.9	0.8	2.7
Transport	15.3	14.4	14.5	15.3	17.4	20.2	20.7	21.1	20.1	21.4	73.5
Residential/Commercial	1.2	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.1	3.7
Natural gas final consumption, by sector	10.5	10.5	10.0	10.3	11.0	11.0	10.9	10.8	10.9	11.5	100.0
Industry	3.2	3.2	3.2	3.2	3.4	3.7	3.9	3.9	3.9	4.0	35.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	5.3	5.3	4.8	4.9	5.4	5.1	4.9	5.0	5.0	5.2	45.5
Refined products consumption	22.0	20.9	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.1	100.0
Gasoline	3.8	3.7	3.5	3.7	3.9	4.2	4.4	4.5	4.2	4.7	16.2
Diesel	12.4	11.5	11.6	12.2	14.1	16.7	17.2	17.4	17.0	17.9	61.3
Heating Oil	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1
LPG	2.6	2.6	2.6	2.6	2.7	2.9	2.9	3.1	2.7	2.9	9.8
Imports	40.2	38.6	38.9	42.5	44.8	48.1	49.9	50.6	48.0	51.0	100.0
Oil	30.2	28.4	29.2	32.5	32.6	35.1	36.9	36.2	33.5	34.5	67.7
Gas	10.0	10.3	9.7	10.0	12.2	13.0	13.1	14.5	14.5	16.5	32.3
Gasoline	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.8	1.6
Diesel	1.5	1.0	1.5	2.1	3.8	5.3	4.9	4.6	4.4	5.5	10.8
Heating Oil	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.1	2.3	2.2	2.2	2.4	2.7	2.8	2.9	2.4	2.5	4.9
Exports	5.9	7.0	7.5	8.4	7.9	6.3	6.8	6.5	5.8	5.4	100.0
Oil	5.9	6.9	7.4	8.4	7.2	5.3	6.2	5.4	4.7	4.1	75.9
Gas	0.0	0.1	0.1	0.0	0.7	1.0	0.6	1.1	1.2	1.3	24.1
Gasoline	0.7	0.9	0.7	0.8	0.5	0.2	0.4	0.3	0.2	0.1	1.0
Diesel	0.3	0.6	1.0	1.8	1.1	0.2	0.0	0.1	0.3	0.1	1.8
Heating Oil	2.2	2.5	2.8	2.6	2.4	2.4	2.7	2.2	1.1	0.9	17.4
Aviation Jet	0.4	0.4	0.5	0.5	0.5	0.2	0.3	0.3	0.2	0.2	2.9
LPG	0.1	0.3	0.2	0.2	0.3	0.5	0.6	0.5	0.4	0.4	6.9
CO₂ Emissions (Million tons CO₂)	308.9	305.7	292.5	296.6	307.3	319.9	318.9	301.6	286.2	307.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	329.9	322.8	298.8	290.7	291.9	290.0	274.4	247.7	241.2	245.4	-
Final energy intensity (toe/million \$15ppp)	68.1	66.0	62.1	60.3	62.4	63.3	63.3	59.5	59.4	58.3	-
Total energy intensity (toe/million \$15ppp)	104.8	103.7	96.7	93.7	94.9	94.7	94.2	86.6	86.2	86.3	-

*Heat is included

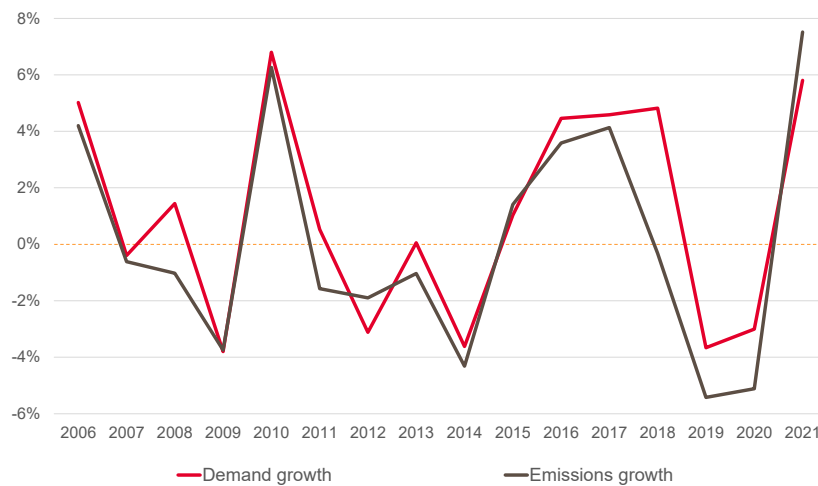
Primary energy demand mix



Electricity generation by source



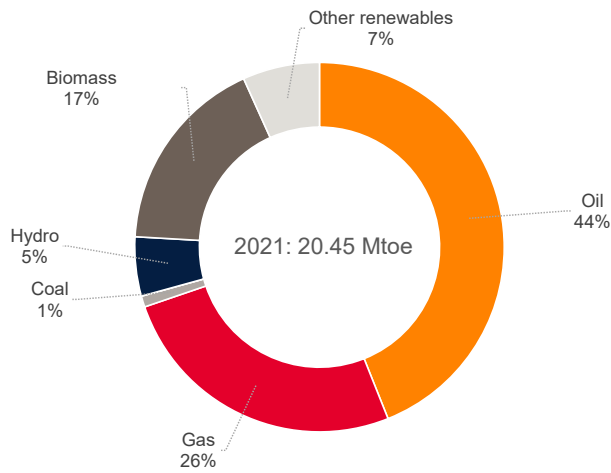
Primary energy demand and CO₂ emissions growth



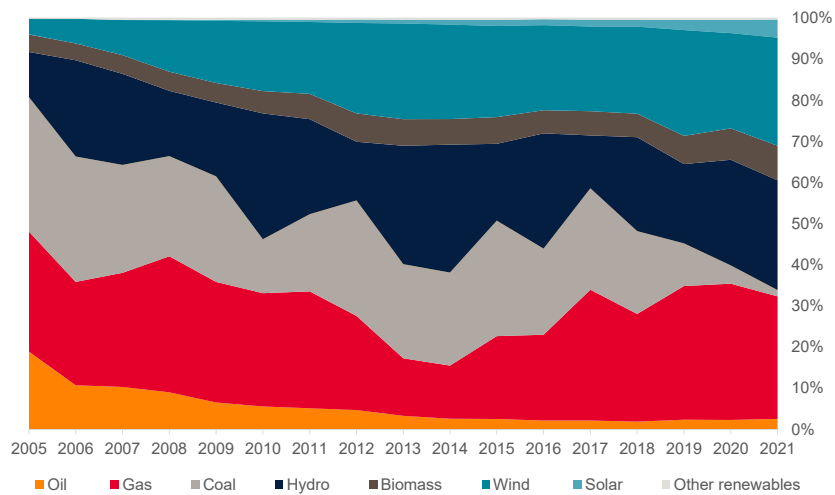
Portugal (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	21.4	21.5	21.2	22.0	21.8	22.8	22.1	21.8	20.2	20.4	100.0
Oil	9.4	9.4	9.3	9.4	9.3	9.4	8.9	9.4	8.5	8.7	42.4
Gas	3.9	3.8	3.5	4.1	4.3	5.4	5.0	5.3	5.2	5.1	24.9
Coal	2.9	2.6	2.7	3.3	2.8	3.2	2.7	1.2	0.6	0.2	0.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	1.2	1.3	0.7	1.4	0.5	1.1	0.8	1.0	1.0	5.0
Biomass	2.9	3.0	3.0	3.0	3.1	3.1	3.1	3.2	3.3	3.4	16.8
Other renewables	0.9	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	6.5
Electricity balance of trade*	0.9	0.5	0.3	0.5	-0.2	0.0	0.1	0.6	0.4	0.7	3.5
Total final consumption, by source	16.4	16.3	16.2	16.3	16.2	16.5	16.2	16.8	15.6	15.9	100.0
Oil	8.3	8.2	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.6	47.6
Gas	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.7	1.7	10.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	4.0	3.9	3.9	3.9	4.0	4.0	4.1	4.1	4.0	4.0	25.5
Heat	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.1
Biomass	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	14.3
Electricity generation, by source	4.0	4.4	4.5	4.5	5.2	5.1	5.1	4.6	4.6	4.3	100.0
Oil	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.6
Gas	0.9	0.6	0.6	0.9	1.1	1.6	1.3	1.5	1.5	1.3	29.8
Coal	1.1	1.0	1.0	1.3	1.1	1.3	1.0	0.5	0.2	0.1	1.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	1.3	1.4	0.8	1.5	0.7	1.2	0.9	1.2	1.2	26.6
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	8.4
Wind	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.1	1.1	26.3
Solar	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	4.4
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	16.4	16.3	16.2	16.3	16.2	16.5	16.2	16.8	15.6	15.9	100.0
Industry	4.6	4.6	4.4	4.4	4.4	4.5	4.5	4.6	4.5	4.4	27.8
Transport	5.6	5.5	5.5	5.6	5.7	5.8	5.9	6.0	5.0	5.3	33.6
Residential/Commercial	4.5	4.4	4.5	4.5	4.5	4.5	4.6	4.6	4.5	4.5	28.5
Oil final consumption, by sector	8.3	8.2	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.6	100.0
Industry	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.5	6.8
Transport	5.2	5.2	5.2	5.2	5.4	5.5	5.5	5.7	4.7	5.0	66.1
Residential/Commercial	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	7.4
Natural gas final consumption, by sector	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.7	1.7	100.0
Industry	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.2	70.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	28.3
Refined products consumption	8.3	8.2	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.6	100.0
Gasoline	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	0.9	1.0	13.0
Diesel	4.4	4.3	4.4	4.5	4.7	4.7	4.8	4.9	4.3	4.5	59.4
Heating Oil	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.8
Aviation Jet	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	1.9
LPG	0.6	0.9	1.1	0.9	0.9	0.8	0.7	0.9	0.9	0.9	11.5
Imports	18.5	20.0	18.8	22.2	22.0	23.9	22.0	21.7	19.8	19.8	100.0
Oil	14.6	16.2	15.3	18.1	17.8	18.4	16.9	16.5	14.7	14.7	74.3
Gas	3.9	3.8	3.5	4.1	4.3	5.4	5.1	5.3	5.1	5.1	25.7
Gasoline	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.3	1.3
Diesel	0.9	0.6	0.7	0.8	1.0	0.9	0.9	1.3	0.9	1.6	8.0
Heating Oil	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.8
Aviation Jet	0.2	0.0	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.2	0.8
LPG	0.5	0.7	0.9	0.8	0.8	0.7	0.6	0.8	0.8	0.7	3.7
Exports	3.7	5.6	4.8	6.9	6.8	7.0	5.4	4.9	5.3	5.1	100.0
Oil	3.7	5.6	4.8	6.9	6.8	7.0	5.4	4.9	5.3	5.1	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	0.9	1.4	1.0	1.9	1.8	2.0	1.7	1.7	1.3	1.5	29.9
Diesel	0.4	1.7	1.3	2.3	2.1	2.1	1.2	0.9	1.3	1.4	27.4
Heating Oil	1.4	1.5	1.5	1.6	1.6	1.5	1.2	1.1	1.5	1.6	30.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.7
CO₂ Emissions (Million tons CO₂)	46.7	45.4	44.5	48.5	47.9	52.3	48.4	43.8	38.1	37.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	154.7	151.5	147.3	158.0	152.9	161.1	145.0	127.7	121.5	114.3	-
Final energy intensity (toe/million \$15ppp)	50.0	49.8	49.0	48.7	48.0	47.1	46.4	45.7	46.2	45.0	-
Total energy intensity (toe/million \$15ppp)	71.0	71.9	70.3	71.6	69.7	70.3	66.1	63.6	64.3	62.2	-

*Heat is included

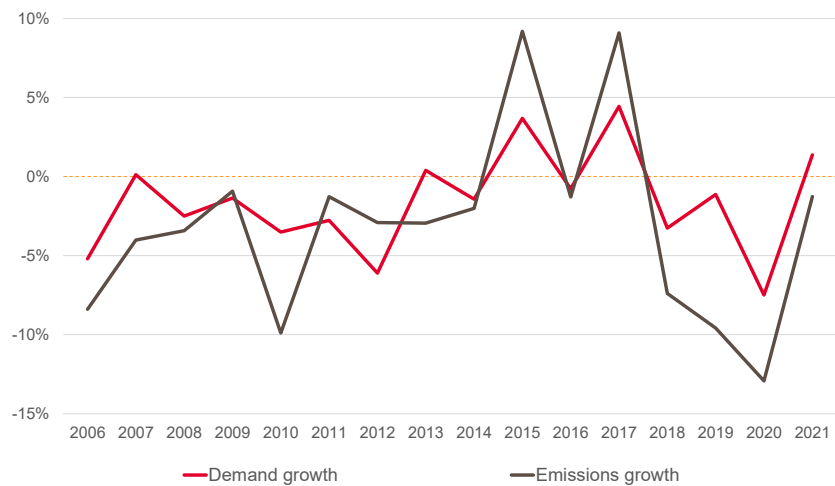
Primary energy demand mix



Electricity generation by source



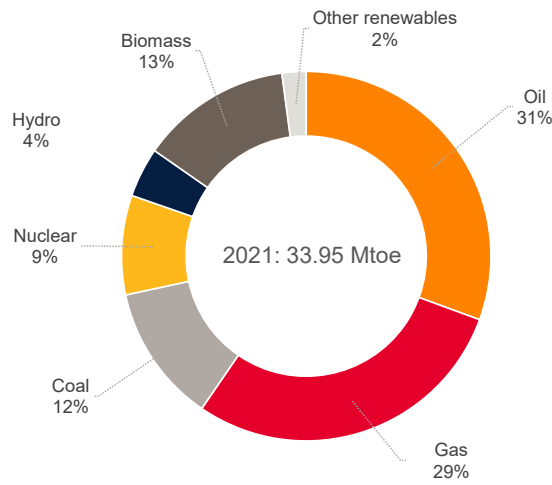
Primary energy demand and CO₂ emissions growth



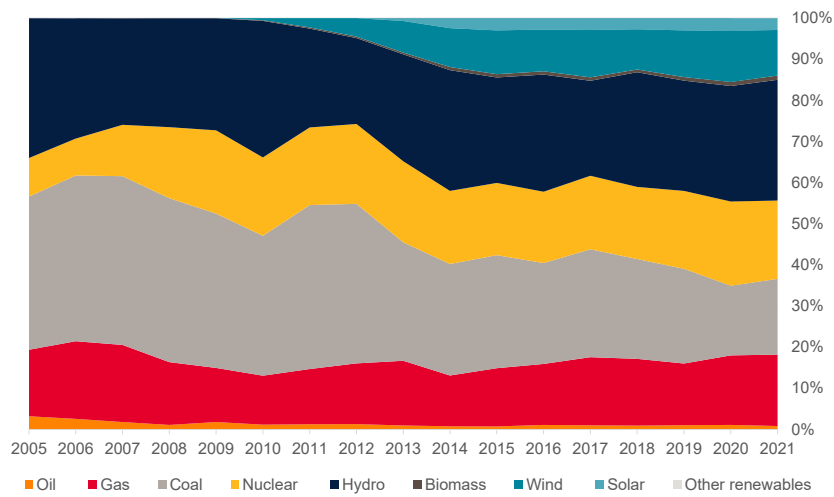
Romania (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	34.9	31.9	31.5	31.8	31.7	33.3	33.5	33.1	32.2	33.9	100.0
Oil	8.3	7.9	7.8	8.5	8.6	9.4	9.6	9.8	9.7	10.3	30.4
Gas	10.8	9.8	9.3	8.9	9.0	9.6	9.8	9.2	9.6	9.8	28.8
Coal	7.6	5.7	5.7	5.9	5.3	5.4	5.1	4.9	3.5	4.1	12.0
Nuclear	3.0	3.0	3.0	3.0	2.9	3.0	3.0	2.9	3.0	2.9	8.7
Hydro	1.0	1.3	1.6	1.4	1.6	1.2	1.5	1.3	1.3	1.5	4.3
Biomass	3.9	3.9	3.9	3.8	4.0	4.0	4.0	4.1	4.2	4.5	13.1
Other renewables	0.2	0.4	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	2.1
Electricity balance of trade*	0.0	-0.1	-0.6	-0.6	-0.4	-0.2	-0.2	0.2	0.3	0.2	0.6
Total final consumption, by source	24.3	23.1	23.0	22.8	23.1	24.0	24.4	24.7	24.6	25.7	100.0
Oil	7.5	7.1	7.3	7.6	7.9	8.3	8.5	9.0	8.8	9.3	36.3
Gas	6.9	6.5	6.3	5.6	5.5	5.9	6.1	5.9	6.2	6.3	24.4
Coal	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.8	0.8	0.9	3.6
Electricity	3.6	3.5	3.6	3.7	3.7	3.8	3.9	3.9	3.8	3.9	15.4
Heat	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.0	1.0	3.9
Biomass	3.8	3.8	3.7	3.6	3.8	3.8	3.8	3.8	4.0	4.2	16.5
Electricity generation, by source	5.1	5.1	5.6	5.7	5.6	5.5	5.6	5.1	4.8	5.1	100.0
Oil	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.8
Gas	0.7	0.8	0.7	0.8	0.8	0.9	0.9	0.8	0.8	0.9	17.4
Coal	2.0	1.5	1.5	1.6	1.4	1.4	1.4	1.2	0.8	0.9	18.4
Nuclear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	19.0
Hydro	1.1	1.3	1.7	1.5	1.6	1.3	1.6	1.4	1.4	1.5	29.4
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
Wind	0.2	0.4	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	11.1
Solar	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	2.9
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	24.3	23.1	23.0	22.8	23.1	24.0	24.4	24.7	24.6	25.7	100.0
Industry	6.8	6.3	6.5	6.4	6.3	6.4	6.6	6.7	6.4	6.5	25.3
Transport	5.4	5.2	5.3	5.4	5.8	6.2	6.4	6.6	6.5	7.3	28.6
Residential/Commercial	9.8	9.6	9.2	9.2	9.3	9.6	9.6	9.5	9.6	9.9	38.5
Oil final consumption, by sector	7.5	7.1	7.3	7.6	7.9	8.3	8.5	9.0	8.8	9.3	100.0
Industry	0.9	0.8	0.9	1.0	0.9	0.9	1.0	1.2	1.1	1.0	10.2
Transport	5.0	4.9	5.0	5.1	5.4	5.8	6.0	6.1	5.9	6.7	72.0
Residential/Commercial	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	3.7
Natural gas final consumption, by sector	6.9	6.5	6.3	5.6	5.5	5.9	6.1	5.9	6.2	6.3	100.0
Industry	2.6	2.4	2.5	2.2	2.1	2.2	2.3	2.1	2.2	2.2	35.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	3.3	3.2	2.9	3.0	3.0	3.2	3.3	3.3	3.5	3.5	55.8
Refined products consumption	7.5	7.1	7.3	7.5	7.9	8.3	8.5	9.0	8.7	9.3	100.0
Gasoline	1.4	1.3	1.4	1.3	1.4	1.4	1.4	1.4	1.3	1.5	16.4
Diesel	4.4	4.2	4.2	4.4	4.7	5.1	5.3	5.5	5.4	6.0	64.6
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.8
LPG	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	5.2
Imports	10.2	8.9	9.7	9.8	11.6	12.1	12.9	14.2	12.4	13.9	100.0
Oil	7.9	7.7	9.2	9.6	10.4	11.1	11.6	12.1	10.7	11.0	79.5
Gas	2.3	1.2	0.5	0.2	1.2	1.0	1.2	2.1	1.7	2.8	20.5
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Diesel	1.6	1.1	1.0	1.2	1.2	1.4	1.5	1.2	1.3	1.9	13.6
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.7
LPG	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	2.5
Exports	3.5	3.9	4.8	4.9	5.3	5.2	5.5	5.6	4.6	4.6	100.0
Oil	3.5	3.9	4.8	4.9	5.3	5.2	5.5	5.6	4.5	4.0	87.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	12.4
Gasoline	1.6	1.8	1.8	1.9	2.2	2.0	2.3	2.3	2.0	1.7	36.4
Diesel	0.7	0.9	1.7	1.6	1.7	1.6	1.6	1.6	1.2	0.9	19.4
Heating Oil	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	2.6
Aviation Jet	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.2	5.0
LPG	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	7.2
CO₂ Emissions (Million tons CO₂)	79.2	69.6	69.1	69.4	67.8	71.1	71.6	70.1	65.6	69.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	204.8	173.4	166.3	162.1	151.3	147.7	142.5	133.8	130.5	129.7	-
Final energy intensity (toe/million \$15ppp)	58.5	54.0	51.7	50.6	49.0	47.6	46.4	45.0	46.3	46.0	-
Total energy intensity (toe/million \$15ppp)	90.2	79.4	75.8	74.2	70.8	69.1	66.7	63.3	64.1	63.7	-

*Heat is included

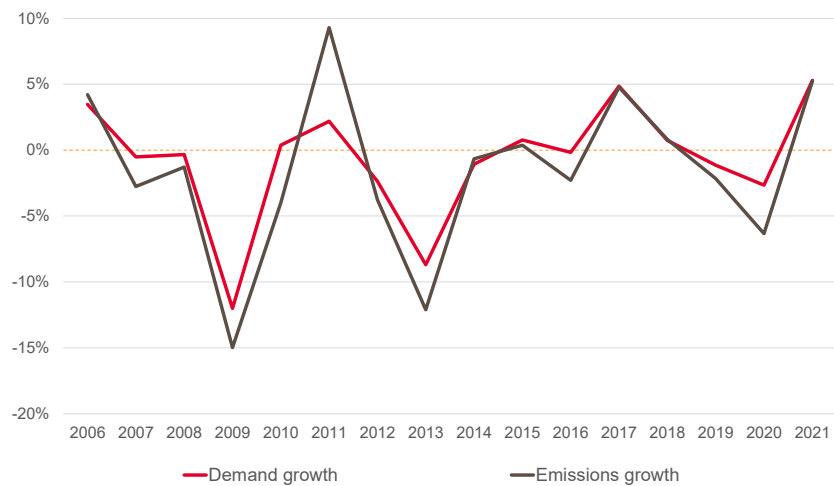
Primary energy demand mix



Electricity generation by source



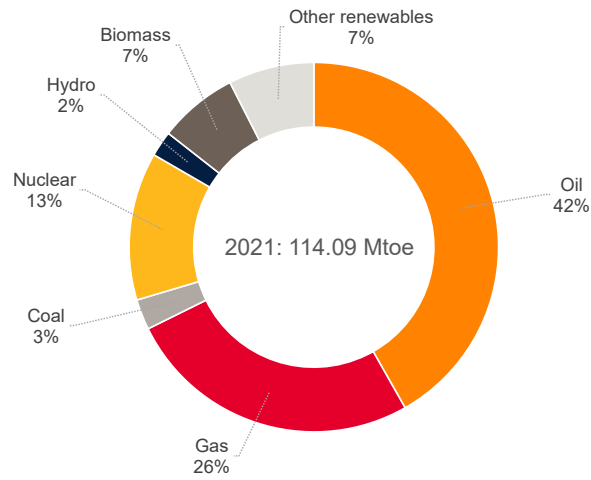
Primary energy demand and CO₂ emissions growth



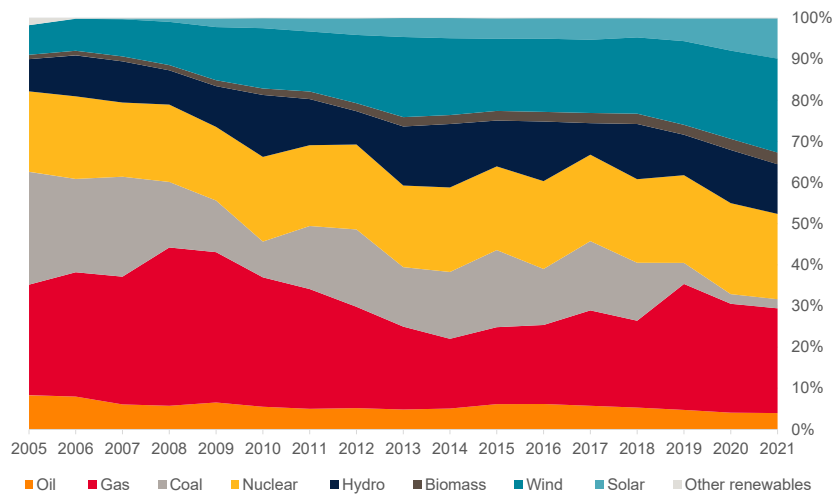
Spain (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	124.8	116.2	113.5	117.5	117.9	124.1	123.7	120.3	108.4	114.1	100.0
Oil	50.1	47.5	46.5	48.6	49.9	52.6	52.7	51.3	44.1	47.5	41.6
Gas	28.6	26.2	23.7	24.5	25.0	27.3	27.1	30.9	27.9	29.5	25.8
Coal	15.2	11.0	11.4	13.3	10.5	12.8	11.3	5.1	3.0	3.0	2.7
Nuclear	16.0	14.8	14.9	14.9	15.3	15.1	14.5	15.2	15.2	14.7	12.9
Hydro	1.8	3.2	3.4	2.4	3.1	1.6	3.0	2.1	2.6	2.5	2.2
Biomass	8.1	7.3	7.2	7.2	6.9	7.3	7.8	7.8	7.6	7.9	6.9
Other renewables	5.8	6.6	6.4	6.2	6.2	6.3	6.2	6.9	7.4	8.5	7.5
Electricity balance of trade*	-0.7	-0.3	-0.0	0.3	1.0	1.1	1.3	0.9	0.6	0.4	0.4
Total final consumption, by source	85.7	82.1	79.8	80.7	82.8	84.9	87.0	86.7	77.8	83.3	100.0
Oil	42.3	40.3	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.4	49.7
Gas	14.9	15.2	14.7	13.3	13.8	14.0	14.7	14.9	14.2	15.3	18.4
Coal	1.4	1.7	1.4	1.4	1.3	1.6	1.5	1.3	1.1	1.4	1.6
Electricity	20.6	19.8	19.5	19.9	20.0	20.5	20.5	20.1	18.9	19.3	23.2
Heat	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
Biomass	6.3	5.0	5.0	5.2	5.0	5.3	5.7	5.8	5.4	5.5	6.7
Electricity generation, by source	25.6	24.6	24.0	24.2	23.6	23.7	23.6	23.5	22.7	23.4	100.0
Oil	1.3	1.2	1.2	1.5	1.5	1.4	1.2	1.1	0.9	0.9	4.0
Gas	6.3	4.9	4.1	4.5	4.5	5.5	5.0	7.2	6.0	6.0	25.4
Coal	4.8	3.6	3.9	4.5	3.2	4.0	3.3	1.2	0.5	0.5	2.2
Nuclear	5.3	4.9	4.9	4.9	5.0	5.0	4.8	5.0	5.0	4.9	20.8
Hydro	2.1	3.5	3.7	2.7	3.4	1.8	3.2	2.3	2.9	2.8	12.1
Biomass	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	2.8
Wind	4.3	4.8	4.5	4.2	4.2	4.2	4.4	4.8	4.9	5.3	22.8
Solar	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.3	1.8	2.3	9.8
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	85.7	82.1	79.8	80.7	82.8	84.9	87.0	86.7	77.8	83.3	100.0
Industry	20.8	20.7	20.1	19.4	20.5	21.2	21.3	21.2	19.3	20.3	24.3
Transport	29.9	28.3	28.5	29.4	30.6	31.7	32.5	33.0	26.2	29.3	35.2
Residential/Commercial	25.9	24.9	24.0	24.7	24.0	24.2	25.0	24.2	23.4	24.2	29.1
Oil final consumption, by sector	42.3	40.3	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.4	100.0
Industry	3.5	2.7	2.6	2.7	2.9	2.9	3.0	2.9	2.5	2.4	5.9
Transport	27.3	27.0	27.1	28.0	29.1	30.0	30.4	30.8	24.2	27.2	65.7
Residential/Commercial	4.1	4.3	3.9	4.1	4.0	3.9	4.1	3.6	3.5	3.6	8.7
Natural gas final consumption, by sector	14.9	15.2	14.7	13.3	13.8	14.0	14.7	14.9	14.2	15.3	100.0
Industry	8.4	9.0	8.8	7.4	7.9	8.1	8.4	8.6	8.1	8.7	56.6
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	1.9
Residential/Commercial	5.1	4.7	4.5	5.1	5.1	5.2	5.5	5.4	5.3	5.7	37.1
Refined products consumption	42.3	40.3	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.4	100.0
Gasoline	4.9	4.6	4.6	4.6	4.8	4.9	5.1	5.5	4.3	5.4	13.0
Diesel	25.5	25.9	25.7	27.1	27.6	28.1	28.4	28.1	24.4	26.6	64.2
Heating Oil	0.7	0.8	0.6	0.5	0.6	0.9	0.9	0.9	0.6	0.5	1.2
Aviation Jet	1.9	1.7	1.8	1.9	2.0	2.2	2.3	2.4	1.0	1.3	3.2
LPG	1.8	1.8	1.9	2.1	2.8	2.6	3.0	2.7	2.4	2.0	4.8
Imports	110.5	110.3	112.5	112.8	114.7	120.6	119.8	121.1	103.4	108.7	100.0
Oil	80.0	79.5	80.8	84.7	86.5	90.5	89.5	88.8	75.1	76.5	70.4
Gas	30.5	30.9	31.7	28.2	28.2	30.1	30.3	32.4	28.3	32.2	29.6
Gasoline	0.1	0.1	0.1	0.1	0.2	0.4	0.5	1.5	1.1	0.5	0.5
Diesel	6.9	4.8	3.9	4.8	4.9	5.2	4.9	5.1	6.0	5.8	5.4
Heating Oil	3.1	4.2	5.4	4.3	5.9	6.8	7.1	6.6	3.8	3.8	3.5
Aviation Jet	2.4	1.9	2.1	2.3	2.3	2.4	1.9	1.8	1.3	0.7	0.7
LPG	0.4	0.4	0.7	0.9	1.6	1.5	1.5	1.4	1.1	0.8	0.7
Exports	22.4	27.7	29.0	27.8	28.8	30.5	28.6	25.3	24.5	25.0	100.0
Oil	19.9	22.6	21.9	23.4	25.3	28.0	25.7	24.3	23.4	22.3	89.4
Gas	2.4	5.1	7.2	4.4	3.5	2.5	2.8	1.0	1.0	2.7	10.6
Gasoline	3.6	3.6	3.5	5.0	4.7	4.8	4.6	5.0	4.6	4.8	19.0
Diesel	6.4	5.5	5.2	5.5	5.5	6.7	6.3	6.1	7.3	6.6	26.3
Heating Oil	1.4	2.9	2.9	2.2	2.9	3.5	3.6	2.6	2.4	2.0	8.0
Aviation Jet	0.2	0.4	0.4	0.5	0.7	0.6	0.6	0.4	0.5	0.8	3.3
LPG	0.3	0.4	0.5	0.4	0.5	0.6	0.5	0.6	0.5	0.6	2.3
CO₂ Emissions (Million tons CO₂)	268.1	242.0	240.6	256.3	248.2	263.9	259.1	240.2	200.4	214.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	171.6	157.2	154.1	158.1	148.6	153.4	147.3	133.7	125.1	127.3	-
Final energy intensity (toe/million \$15ppp)	51.0	50.1	48.4	47.1	46.6	46.5	46.5	45.3	45.0	45.8	-
Total energy intensity (toe/million \$15ppp)	79.9	75.5	72.7	72.5	70.6	72.2	70.3	67.0	67.7	67.8	-

*Heat is included

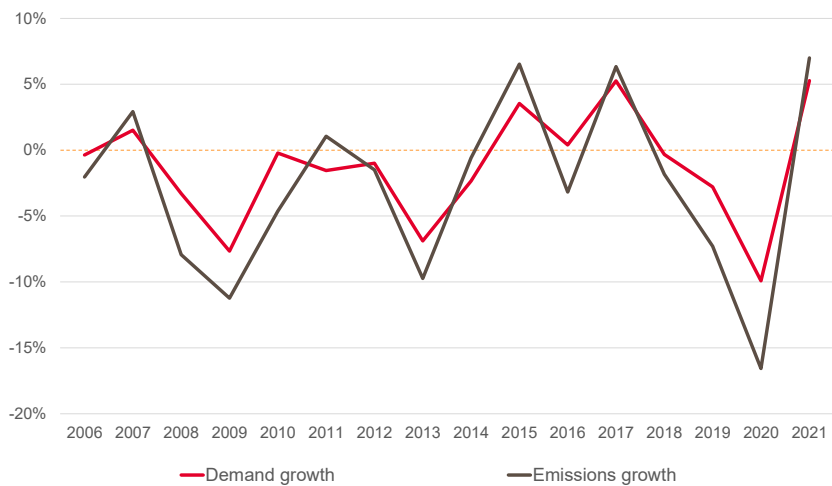
Primary energy demand mix



Electricity generation by source



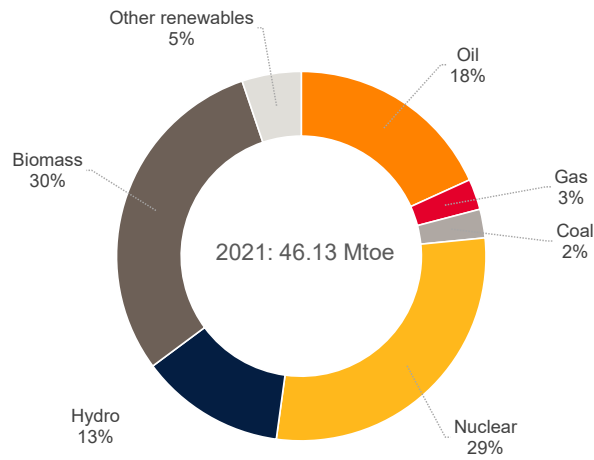
Primary energy demand and CO₂ emissions growth



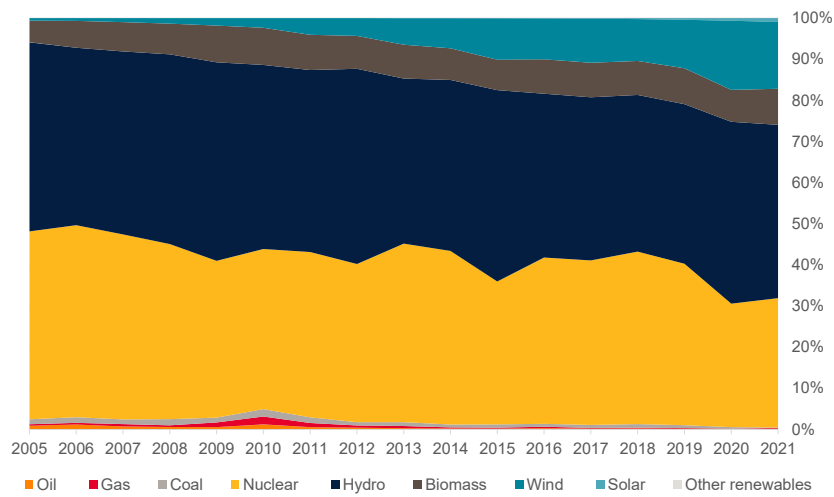
Sweden (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	49.7	49.1	47.8	44.1	47.5	48.8	49.8	48.6	44.4	46.1	100.0
Oil	12.4	11.7	11.4	8.6	10.0	9.8	10.7	9.9	8.3	8.8	19.0
Gas	1.0	1.0	0.8	0.7	0.8	0.9	1.0	1.0	1.3	1.3	2.8
Coal	2.2	2.2	2.1	2.1	2.1	2.0	2.2	2.0	1.5	1.2	2.6
Nuclear	16.7	17.3	16.9	14.7	16.4	17.1	17.9	17.2	12.8	13.8	30.0
Hydro	6.8	5.3	5.5	6.5	5.3	5.6	5.4	5.6	6.2	6.1	13.3
Biomass	11.5	11.4	11.3	11.8	12.3	13.2	12.5	13.2	13.7	14.4	31.2
Other renewables	0.6	0.8	1.0	1.4	1.3	1.5	1.5	1.8	2.5	2.5	5.4
Electricity balance of trade*	-1.4	-0.7	-1.1	-1.7	-0.8	-1.4	-1.3	-2.1	-1.9	-2.0	-4.3
Total final consumption, by source	33.7	33.3	32.4	32.8	33.6	33.9	33.2	33.0	32.4	32.6	100.0
Oil	10.3	10.2	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.2	25.3
Gas	0.7	0.6	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.8	2.5
Coal	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.1	1.1	3.4
Electricity	10.9	10.8	10.5	10.7	11.0	10.9	11.0	10.7	10.6	10.9	33.4
Heat	4.5	4.5	4.2	4.2	4.4	4.4	4.4	4.3	4.1	3.8	11.7
Biomass	6.0	6.0	6.1	6.4	6.7	6.9	6.9	6.9	7.9	7.7	23.7
Electricity generation, by source	14.3	13.2	13.2	13.9	13.4	14.1	14.1	14.5	14.1	14.5	100.0
Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gas	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
Nuclear	5.5	5.7	5.6	4.8	5.4	5.6	5.9	5.7	4.2	4.6	31.4
Hydro	6.8	5.3	5.5	6.5	5.3	5.6	5.4	5.6	6.2	6.1	42.2
Biomass	1.1	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.1	1.3	8.8
Wind	0.6	0.8	1.0	1.4	1.3	1.5	1.4	1.7	2.4	2.4	16.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	33.7	33.3	32.4	32.8	33.6	33.9	33.2	33.0	32.4	32.6	100.0
Industry	11.9	11.7	11.5	11.7	11.6	11.7	11.6	11.5	12.1	12.0	36.8
Transport	7.4	7.3	7.3	7.5	7.5	7.7	7.5	7.4	7.0	7.1	21.8
Residential/Commercial	11.9	11.4	11.0	11.2	11.6	11.5	11.4	11.2	11.0	10.9	33.4
Oil final consumption, by sector	10.3	10.2	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.2	100.0
Industry	1.2	1.1	1.0	0.9	1.0	1.0	1.0	0.9	0.8	1.1	12.8
Transport	6.6	6.4	6.2	6.3	6.0	5.9	5.6	5.6	5.1	5.0	60.7
Residential/Commercial	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	3.0
Natural gas final consumption, by sector	0.7	0.6	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.8	100.0
Industry	0.4	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	40.8
Transport	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Residential/Commercial	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	13.5
Refined products consumption	10.3	10.2	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.2	100.0
Gasoline	2.9	2.8	2.7	2.6	2.5	2.4	2.2	2.2	2.0	2.0	24.4
Diesel	4.5	4.4	4.3	4.4	4.2	4.2	4.0	4.0	3.9	3.7	44.4
Heating Oil	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	3.5
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.7
LPG	0.9	1.1	1.0	1.0	1.2	1.1	0.9	1.0	0.9	1.6	18.8
Imports	28.9	25.3	27.8	29.1	31.8	30.5	30.6	26.2	28.7	28.3	100.0
Oil	27.9	24.4	27.1	28.4	31.0	29.6	29.6	25.3	27.4	26.9	95.3
Gas	1.0	1.0	0.8	0.7	0.8	0.9	1.0	1.0	1.3	1.3	4.7
Gasoline	1.2	1.3	1.9	1.8	2.0	1.6	0.8	0.6	0.9	0.6	2.3
Diesel	2.1	2.2	2.4	2.6	3.1	2.9	2.3	2.6	3.4	2.2	7.8
Heating Oil	0.8	0.8	0.4	0.7	2.0	1.6	1.8	0.8	0.8	0.6	2.1
Aviation Jet	0.7	0.6	0.9	0.8	1.0	1.0	1.1	1.0	0.7	0.2	0.7
LPG	0.9	1.1	1.2	1.1	1.5	1.3	1.2	1.4	1.2	1.2	4.1
Exports	13.7	10.2	12.9	15.5	17.2	18.3	17.4	11.8	13.5	17.3	100.0
Oil	13.7	10.2	12.9	15.5	17.2	18.3	17.4	11.8	13.5	17.3	99.8
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gasoline	3.0	2.1	3.7	4.1	3.8	4.0	3.8	2.0	2.7	3.3	19.3
Diesel	5.1	3.6	4.9	5.6	5.4	7.0	6.4	3.9	4.5	6.6	38.3
Heating Oil	3.2	2.3	1.8	2.8	4.5	4.1	4.3	3.2	3.0	2.6	15.1
Aviation Jet	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.2	0.0	0.2	1.0
LPG	0.6	0.3	0.4	0.6	0.8	0.7	0.6	0.8	0.7	0.8	4.9
CO₂ Emissions (Million tons CO₂)	42.2	40.7	39.3	39.0	39.1	39.0	36.4	35.7	32.4	32.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	95.2	90.6	85.4	81.1	79.6	77.4	70.8	68.1	63.8	61.8	-
Final energy intensity (toe/million \$15ppp)	71.8	69.5	66.2	64.5	63.9	62.4	60.5	58.6	60.3	57.3	-
Total energy intensity (toe/million \$15ppp)	112.2	109.4	103.8	91.6	96.7	96.9	97.0	92.8	87.3	86.6	-

*Heat is included

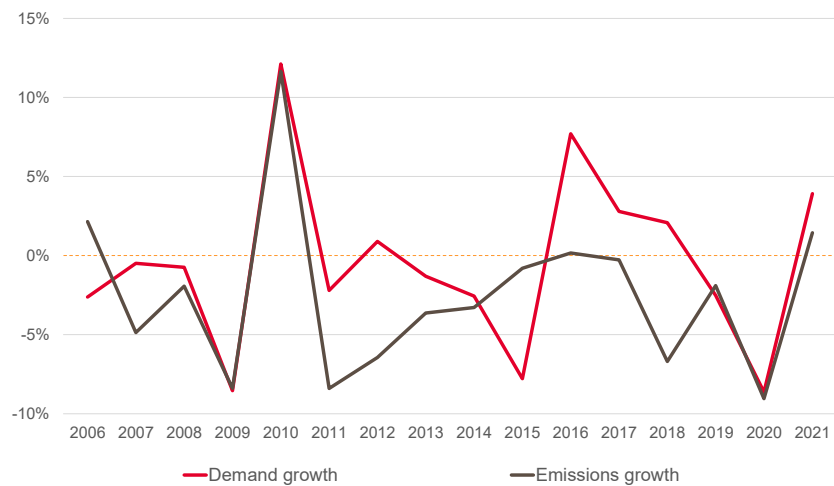
Primary energy demand mix



Electricity generation by source



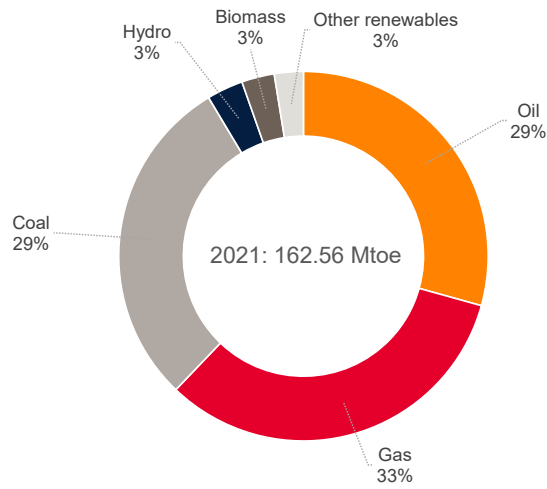
Primary energy demand and CO₂ emissions growth



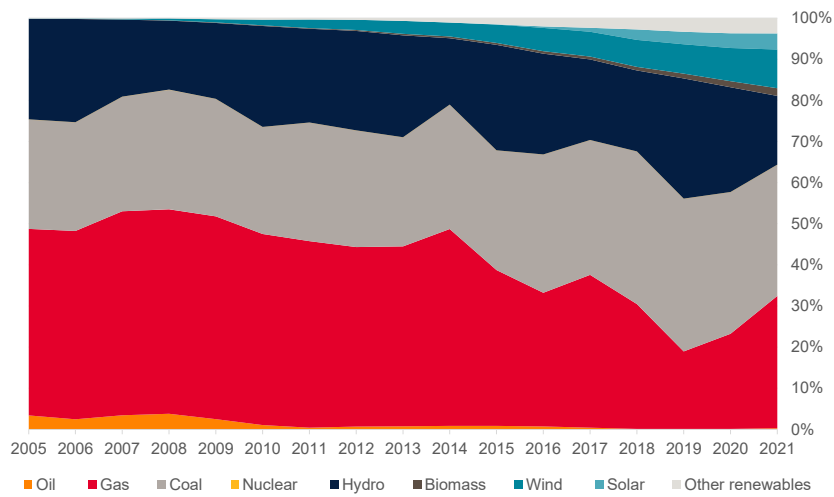
Turkey (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	117.1	113.6	119.4	129.0	137.1	147.3	144.8	146.7	147.4	162.6	100.0
Oil	32.8	32.1	33.2	39.1	42.8	45.2	42.9	43.5	42.6	44.1	27.1
Gas	37.3	37.6	40.2	39.4	38.3	44.2	41.0	37.0	39.7	49.4	30.4
Coal	34.6	30.3	33.4	34.5	38.3	40.1	40.8	41.9	40.0	44.0	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	5.0	5.1	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8	2.9
Biomass	3.7	3.9	3.5	3.2	3.1	3.0	3.2	3.4	3.8	4.3	2.7
Other renewables	0.5	0.6	0.7	1.0	1.4	1.8	2.4	2.7	3.1	3.8	2.3
Electricity balance of trade*	3.3	4.0	4.8	6.1	7.3	8.0	9.2	10.5	11.5	12.1	7.5
Total final consumption, by source	88.6	87.8	88.3	95.8	100.3	107.6	105.6	106.6	109.9	122.2	100.0
Oil	30.7	31.5	31.2	35.4	38.2	40.7	40.1	40.1	40.4	43.1	35.3
Gas	18.0	18.9	19.4	21.2	21.5	24.8	24.6	25.6	26.5	32.2	26.4
Coal	16.4	13.4	13.4	14.2	14.7	14.8	12.7	12.8	14.3	16.1	13.2
Electricity	16.6	16.9	17.7	18.4	19.6	21.1	21.9	21.8	22.2	24.0	19.7
Heat	3.5	3.5	3.5	3.7	3.6	3.7	3.8	3.8	3.9	4.0	3.3
Biomass	3.5	3.7	3.3	2.9	2.7	2.5	2.5	2.5	2.6	2.7	2.2
Electricity generation, by source	20.6	20.7	21.7	22.5	23.6	25.6	26.2	26.1	26.4	28.6	100.0
Oil	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.3
Gas	9.0	9.0	10.4	8.5	7.7	9.5	8.0	4.9	6.1	9.2	32.2
Coal	5.8	5.5	6.6	6.6	7.9	8.4	9.7	9.7	9.1	9.1	31.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.0	5.1	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8	16.7
Biomass	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	1.9
Wind	0.5	0.6	0.7	1.0	1.3	1.5	1.7	1.9	2.1	2.7	9.4
Solar	0.0	0.0	0.0	0.0	0.1	0.2	0.7	0.8	0.9	1.1	3.9
Other renewables	0.1	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.1	3.7
Total final consumption, by sector	88.6	87.8	88.3	95.8	100.3	107.6	105.6	106.6	109.9	122.2	100.0
Industry	27.9	26.3	27.3	28.4	28.6	34.8	35.0	32.9	35.0	38.7	31.6
Transport	17.6	19.5	20.7	24.2	26.7	27.9	28.2	28.1	26.5	30.0	24.6
Residential/Commercial	31.2	30.4	30.2	32.4	33.1	35.7	33.1	35.5	36.9	41.7	34.2
Oil final consumption, by sector	30.7	31.5	31.2	35.4	38.2	40.7	40.1	40.1	40.4	43.1	100.0
Industry	1.7	1.0	0.8	1.0	0.8	4.4	4.4	3.4	4.1	3.4	7.9
Transport	17.4	19.0	20.4	23.9	26.4	27.6	27.8	27.7	26.3	29.7	69.0
Residential/Commercial	0.9	1.0	1.0	1.0	0.9	1.2	1.0	1.0	0.9	1.0	2.3
Natural gas final consumption, by sector	18.0	18.9	19.4	21.2	21.5	24.8	24.6	25.6	26.5	32.2	100.0
Industry	8.0	8.2	8.8	9.0	8.6	10.3	9.7	9.2	9.3	11.3	35.0
Transport	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	9.5	10.4	10.1	11.7	12.1	13.9	13.7	15.6	16.4	19.9	61.8
Refined products consumption	30.7	31.5	31.2	35.4	38.2	40.7	40.1	40.1	40.4	43.1	100.0
Gasoline	1.9	2.0	2.0	2.2	2.3	2.4	2.3	2.4	2.4	3.1	7.1
Diesel	16.5	17.3	18.1	20.3	22.1	23.9	23.7	23.6	23.2	26.0	60.3
Heating Oil	0.7	0.7	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.1	0.3
Aviation Jet	0.4	0.4	1.0	1.3	1.4	1.3	1.3	1.2	0.7	0.9	2.2
LPG	4.1	4.2	4.2	4.4	4.7	4.6	4.7	4.7	4.4	4.4	10.1
Imports	78.1	77.3	81.9	89.8	89.4	99.5	91.3	90.8	88.0	99.4	100.0
Oil	40.3	40.0	41.3	49.9	51.2	54.0	49.9	53.6	48.4	50.9	51.2
Gas	37.8	37.3	40.6	39.9	38.2	45.5	41.4	37.2	39.6	48.5	48.8
Gasoline	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	11.6	12.2	13.3	12.8	13.3	14.9	15.3	11.5	9.1	11.2	11.3
Heating Oil	0.9	0.7	1.1	1.6	1.7	2.1	2.4	2.0	2.0	1.6	1.6
Aviation Jet	0.6	0.6	0.9	0.2	0.4	0.2	0.5	0.4	0.1	0.2	0.2
LPG	3.4	3.4	3.5	3.8	3.8	3.8	3.7	3.5	3.4	3.5	3.5
Exports	8.6	9.1	7.7	8.3	7.2	7.4	5.6	9.3	8.2	7.9	100.0
Oil	8.0	8.5	7.2	7.7	6.6	6.9	5.1	8.7	7.8	7.6	96.6
Gas	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.3	3.4
Gasoline	2.9	2.7	2.2	3.3	3.1	3.4	2.6	3.1	2.0	1.8	22.2
Diesel	0.2	0.1	0.1	0.1	0.1	0.2	0.1	1.4	2.7	2.6	32.3
Heating Oil	1.2	1.9	2.6	2.5	1.6	1.5	1.1	2.1	0.2	1.2	15.7
Aviation Jet	2.6	2.9	1.0	0.3	0.2	0.3	0.1	0.7	0.6	0.0	0.5
LPG	0.1	0.1	0.1	0.3	0.2	0.3	0.1	0.1	0.1	0.2	3.1
CO₂ Emissions (Million tons CO₂)	308.2	296.1	319.0	331.0	351.4	391.7	388.5	379.7	378.6	422.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	184.0	163.0	167.3	163.7	168.2	174.4	168.0	162.7	159.3	160.2	-
Final energy intensity (toe/million \$15ppp)	48.6	44.4	43.4	43.9	44.1	45.7	43.6	43.4	43.5	43.9	-
Total energy intensity (toe/million \$15ppp)	69.9	62.5	62.6	63.8	65.6	65.6	62.6	62.9	62.0	61.7	-

*Heat is included

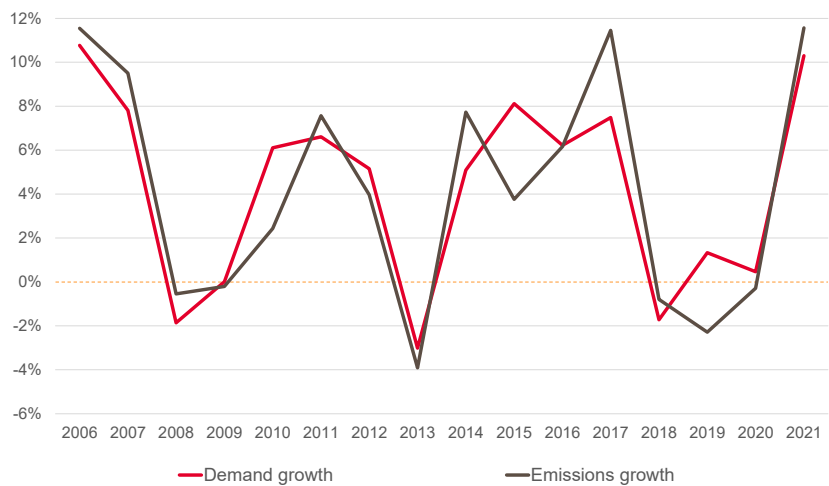
Primary energy demand mix



Electricity generation by source



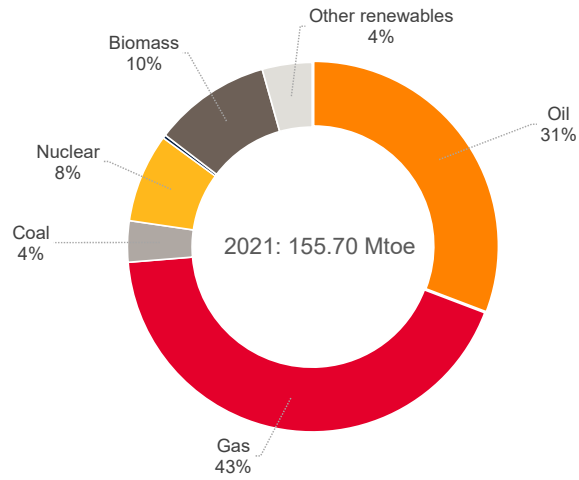
Primary energy demand and CO₂ emissions growth



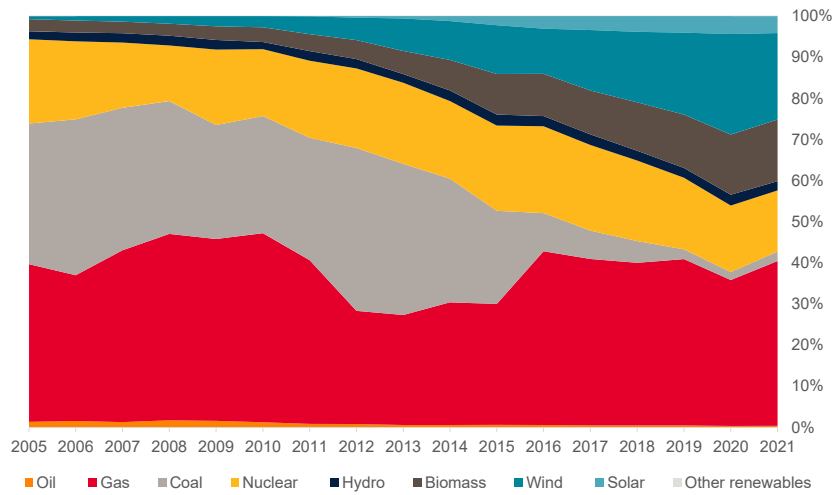
United Kingdom (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	193.9	191.1	180.0	181.8	179.3	176.5	176.0	170.8	152.0	155.7	100.0
Oil	59.6	57.1	58.3	60.2	61.2	61.7	60.7	59.4	45.4	47.3	30.4
Gas	66.4	65.8	59.9	61.9	69.1	67.3	68.1	66.8	62.9	65.9	42.3
Coal	39.0	37.3	30.2	23.9	12.0	9.8	8.1	5.8	5.3	5.5	3.6
Nuclear	18.3	18.4	16.6	18.3	18.7	18.3	17.0	14.6	13.1	12.0	7.7
Hydro	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.4	0.3
Biomass	7.3	8.2	9.6	10.9	12.1	12.4	14.0	15.1	15.5	15.8	10.1
Other renewables	1.8	2.6	3.1	4.1	4.1	5.3	6.0	6.6	7.7	6.7	4.3
Electricity balance of trade*	1.1	1.3	1.8	1.9	1.6	1.3	1.7	1.9	1.6	2.2	1.4
Total final consumption, by source	130.3	131.5	124.2	128.1	129.8	129.2	130.3	128.5	118.0	122.9	100.0
Oil	52.3	51.6	52.0	54.0	55.5	56.2	55.1	53.8	45.2	47.2	38.4
Gas	42.4	42.8	36.1	38.3	39.1	38.4	40.0	39.6	39.0	41.3	33.6
Coal	4.3	5.3	5.2	4.8	3.8	3.6	3.3	3.2	3.1	3.2	2.6
Electricity	27.4	27.2	26.1	26.1	26.2	25.8	25.8	25.4	24.0	24.5	19.9
Heat	1.3	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1
Biomass	2.7	3.4	3.6	3.7	3.9	4.0	4.7	5.2	5.3	5.5	4.5
Electricity generation, by source	31.3	30.8	29.1	29.2	29.2	29.1	28.6	27.8	26.8	26.6	100.0
Oil	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.4
Gas	8.6	8.2	8.7	8.6	12.3	11.8	11.3	11.2	9.5	10.6	40.1
Coal	12.4	11.3	8.7	6.6	2.7	2.0	1.5	0.7	0.5	0.6	2.3
Nuclear	6.1	6.1	5.5	6.0	6.2	6.0	5.6	4.8	4.3	3.9	14.8
Hydro	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.6	2.3
Biomass	1.4	1.7	2.2	2.9	3.0	3.1	3.4	3.6	3.9	4.0	15.0
Wind	1.7	2.4	2.7	3.5	3.2	4.3	4.9	5.5	6.5	5.6	21.0
Solar	0.1	0.2	0.3	0.6	0.9	1.0	1.1	1.1	1.2	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	130.3	131.5	124.2	128.1	129.8	129.2	130.3	128.5	118.0	122.9	100.0
Industry	25.2	25.8	24.9	25.1	22.9	23.1	23.0	22.5	21.4	22.5	18.3
Transport	39.3	39.1	39.7	40.5	41.4	41.5	41.4	41.1	33.0	36.0	29.3
Residential/Commercial	57.9	58.7	51.5	54.1	56.2	54.9	56.7	56.2	55.6	57.5	46.7
Oil final consumption, by sector	52.3	51.6	52.0	54.0	55.5	56.2	55.1	53.8	45.2	47.2	100.0
Industry	4.2	3.7	3.7	3.8	2.1	2.4	2.4	2.1	2.0	2.2	4.6
Transport	38.0	37.7	38.1	39.2	40.0	40.2	39.7	39.0	31.0	34.2	72.5
Residential/Commercial	3.4	3.5	3.6	3.7	5.0	4.9	5.0	5.0	5.1	4.7	10.0
Natural gas final consumption, by sector	42.4	42.8	36.1	38.3	39.1	38.4	40.0	39.6	39.0	41.3	100.0
Industry	7.9	8.1	7.6	7.6	7.8	8.0	8.0	7.9	7.5	7.9	19.1
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	33.9	34.3	27.9	30.2	30.9	29.9	31.5	31.3	31.1	33.0	79.8
Refined products consumption	52.3	51.6	52.0	54.0	55.5	56.2	55.1	53.8	45.2	47.2	100.0
Gasoline	13.9	13.2	13.0	12.7	12.6	12.4	12.2	12.3	9.6	10.7	22.6
Diesel	26.5	26.4	27.1	28.7	29.7	30.1	29.9	28.8	23.8	26.4	56.0
Heating Oil	0.3	0.2	0.3	0.3	0.3	0.5	0.3	0.2	0.1	0.1	0.2
Aviation Jet	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.4	0.3	0.7
LPG	2.7	2.5	2.6	3.1	3.2	3.2	3.2	3.2	2.9	2.8	5.9
Imports	132.2	131.2	122.3	123.6	127.1	130.3	130.4	128.1	99.0	107.2	100.0
Oil	89.3	89.6	85.4	85.2	86.3	90.2	90.4	88.0	62.0	64.2	59.9
Gas	42.9	41.6	36.9	38.3	40.8	40.0	40.0	40.1	37.0	43.0	40.1
Gasoline	4.4	4.7	3.7	4.1	4.1	3.4	3.6	3.0	2.6	2.6	2.5
Diesel	11.1	11.2	13.1	15.1	17.0	15.9	16.5	15.3	11.8	13.8	12.9
Heating Oil	0.6	0.6	1.0	1.0	1.2	0.9	0.8	0.8	0.7	0.7	0.6
Aviation Jet	7.3	8.4	8.4	8.5	9.0	9.3	9.6	9.8	5.7	4.7	4.4
LPG	0.3	0.5	0.5	0.8	1.0	1.1	1.1	0.9	0.5	0.6	0.5
Exports	72.7	69.4	64.1	70.1	69.7	73.0	75.4	74.4	68.3	59.4	100.0
Oil	62.5	61.7	55.2	58.3	60.9	63.4	69.0	67.6	60.2	53.6	90.2
Gas	10.2	7.7	9.0	11.9	8.9	9.6	6.4	6.8	8.1	5.8	9.8
Gasoline	11.6	11.4	9.1	10.9	11.7	11.5	10.8	9.9	8.2	8.4	14.1
Diesel	7.8	6.3	5.5	4.7	5.0	3.9	4.4	4.3	4.2	3.7	6.2
Heating Oil	5.4	4.5	4.0	3.2	3.2	2.9	2.4	2.1	2.7	2.5	4.2
Aviation Jet	1.4	1.0	1.1	1.2	1.3	1.3	1.6	1.5	1.2	1.2	2.0
LPG	1.3	1.3	1.0	0.9	1.1	1.2	1.0	1.0	0.5	0.6	1.0
CO₂ Emissions (Million tons CO₂)	467.8	455.2	414.6	402.5	380.5	366.9	360.5	348.2	301.1	321.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	180.3	172.2	152.3	144.0	133.2	125.7	121.5	115.5	110.2	109.4	-
Final energy intensity (toe/million \$15ppp)	47.5	47.2	43.1	43.2	42.7	41.5	41.3	40.2	40.8	40.0	-
Total energy intensity (toe/million \$15ppp)	74.7	72.3	66.1	65.1	62.8	60.5	59.3	56.6	55.6	53.0	-

*Heat is included

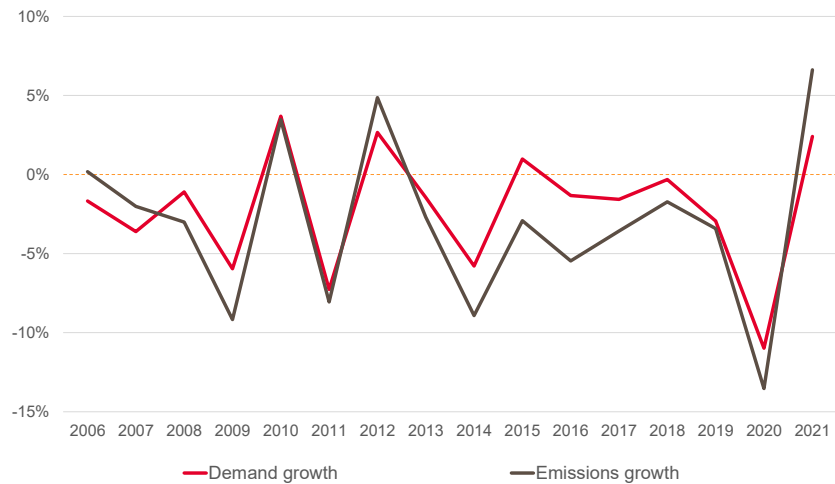
Primary energy demand mix



Electricity generation by source

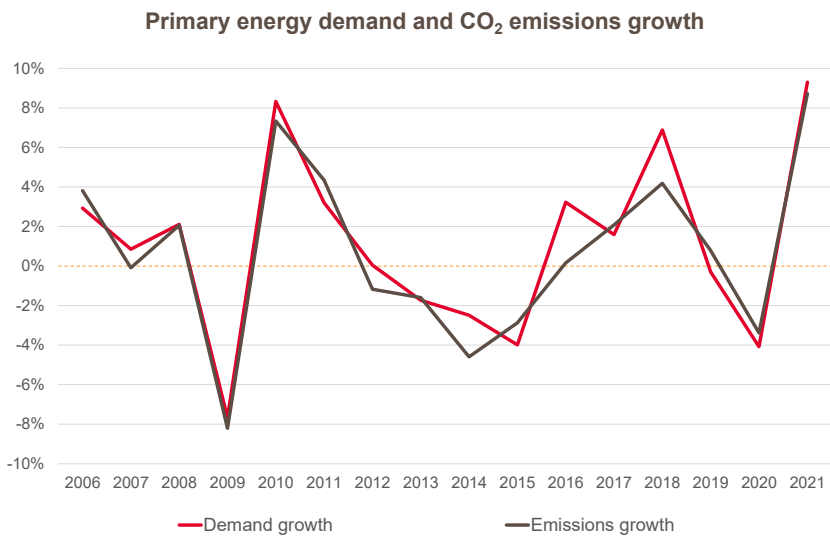
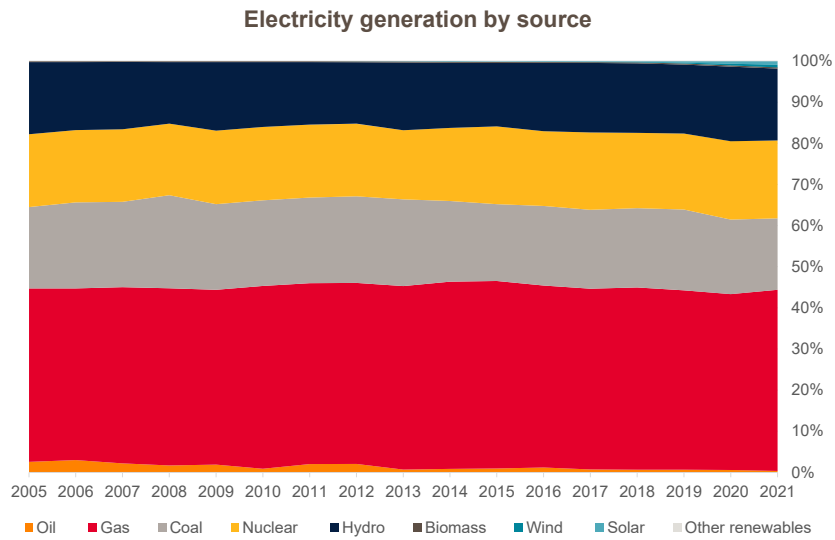
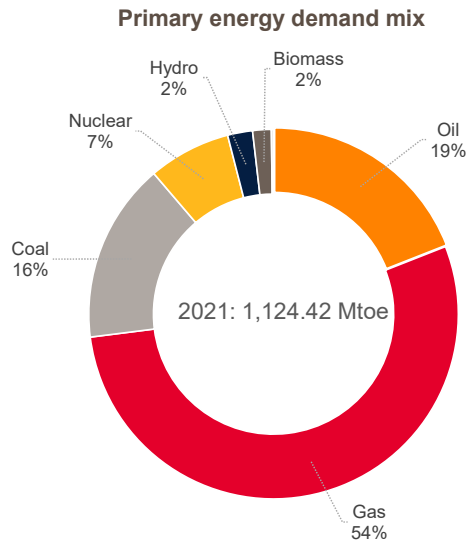


Primary energy demand and CO₂ emissions growth



Former Soviet Union (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	1,043.2	1,025.1	999.5	959.7	990.7	1,006.4	1,075.7	1,072.4	1,028.8	1,124.4	100.0
Oil	209.4	199.5	199.3	192.4	210.1	209.3	208.8	209.3	196.4	214.4	19.1
Gas	535.8	535.7	517.2	483.0	494.4	508.6	566.5	556.6	540.9	607.8	54.1
Coal	198.2	189.5	180.1	177.5	178.3	177.2	188.1	191.3	172.4	177.5	15.8
Nuclear	70.4	67.3	70.8	74.5	73.0	75.9	75.8	76.7	76.9	81.3	7.2
Hydro	19.4	21.6	20.6	19.8	21.7	22.2	22.8	22.7	24.0	24.6	2.2
Biomass	11.5	11.9	11.8	12.6	13.8	13.8	14.7	16.4	17.5	18.4	1.6
Other renewables	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.8	1.3	2.1	0.2
Electricity balance of trade*	-1.6	-0.4	-0.3	-0.2	-0.8	-0.9	-1.5	-1.3	-0.7	-1.6	-0.1
Total final consumption, by source	630.8	617.8	622.0	606.6	621.6	645.7	675.7	683.1	667.4	712.1	100.0
Oil	150.2	156.4	158.9	159.5	159.1	167.0	172.5	177.1	168.3	177.4	24.9
Gas	167.9	164.8	170.9	167.8	177.8	192.9	211.1	213.6	215.5	245.1	34.4
Coal	66.5	63.5	62.3	57.7	58.7	57.0	59.0	61.4	58.7	59.6	8.4
Electricity	89.9	91.0	90.3	89.6	90.5	93.0	94.3	93.3	91.1	95.6	13.4
Heat	151.1	136.4	133.9	125.7	128.2	128.6	131.0	128.6	124.5	124.9	17.5
Biomass	5.3	5.8	5.7	6.3	7.2	7.3	7.9	9.1	9.3	9.5	1.3
Electricity generation, by source	131.4	132.0	131.4	130.0	132.5	133.3	136.6	136.9	133.2	141.5	100.0
Oil	2.7	0.9	1.1	1.2	1.5	0.9	0.9	0.9	0.8	0.5	0.4
Gas	57.9	58.9	59.8	59.3	58.6	58.6	60.5	59.7	56.9	62.3	44.0
Coal	27.7	27.8	25.8	24.2	25.6	25.6	26.3	26.9	24.1	24.6	17.4
Nuclear	23.2	22.2	23.4	24.6	24.1	25.1	25.0	25.3	25.4	26.8	19.0
Hydro	19.6	21.7	20.8	20.1	22.0	22.5	23.1	23.0	24.2	24.7	17.5
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
Wind	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.9	0.6
Solar	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.5	0.8	1.2	0.8
Other renewables	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total final consumption, by sector	630.8	617.8	622.0	606.6	621.6	645.7	675.7	683.1	667.4	712.1	100.0
Industry	226.8	214.5	210.6	202.5	212.6	213.1	202.8	206.7	199.6	210.5	29.6
Transport	93.0	94.6	94.6	92.1	91.6	93.0	101.3	103.0	96.4	105.3	14.8
Residential/Commercial	222.8	223.3	228.9	223.5	227.9	242.2	264.1	264.1	263.8	280.4	39.4
Oil final consumption, by sector	150.2	156.4	158.9	159.5	159.1	167.0	172.5	177.1	168.3	177.4	100.0
Industry	15.2	18.7	17.4	19.5	21.1	20.5	11.4	12.9	12.7	13.7	7.7
Transport	85.4	86.9	86.6	84.7	84.1	85.8	90.1	92.5	86.7	94.9	53.5
Residential/Commercial	10.9	12.7	14.1	14.5	13.6	16.8	20.3	20.4	19.5	18.9	10.7
Natural gas final consumption, by sector	167.9	164.8	170.9	167.8	177.8	192.9	211.1	213.6	215.5	245.1	100.0
Industry	50.2	48.5	50.3	46.9	48.2	50.7	50.1	50.5	48.7	55.6	22.7
Transport	0.5	0.7	1.1	1.1	1.2	1.2	4.9	4.2	3.9	4.3	1.7
Residential/Commercial	77.3	77.4	81.7	80.7	88.2	95.8	106.8	108.2	112.2	126.9	51.8
Refined products consumption	149.7	152.9	158.5	158.9	158.5	166.3	172.5	177.0	168.3	177.3	100.0
Gasoline	51.5	52.4	52.6	51.0	50.7	48.9	50.4	49.5	46.1	51.1	28.8
Diesel	41.6	43.1	45.1	45.9	44.3	47.4	49.6	53.0	52.9	57.3	32.3
Heating Oil	4.6	4.0	3.8	3.6	2.7	3.1	3.3	3.2	2.4	2.5	1.4
Aviation Jet	6.8	6.4	6.0	5.4	5.3	5.8	6.3	6.5	5.2	5.5	3.1
LPG	16.7	18.5	20.6	21.0	21.5	23.5	27.4	29.1	26.8	22.9	12.9
Imports	110.5	103.0	91.2	92.1	82.9	88.3	90.0	91.1	86.2	89.3	100.0
Oil	53.7	48.0	43.2	46.2	40.4	41.7	41.9	38.4	37.9	43.4	48.6
Gas	56.8	55.0	48.0	45.9	42.5	46.6	48.1	52.7	48.3	45.9	51.4
Gasoline	5.1	5.4	6.4	5.5	5.1	4.3	3.8	2.9	3.3	4.0	4.4
Diesel	10.2	7.1	7.5	7.3	8.3	9.0	8.7	8.8	9.8	10.0	11.2
Heating Oil	3.6	0.3	0.3	0.7	0.7	0.7	0.3	0.3	0.4	0.4	0.4
Aviation Jet	0.3	0.4	0.4	0.4	0.6	0.8	0.7	0.5	0.3	0.5	0.5
LPG	0.8	0.9	1.1	1.3	1.9	2.2	2.3	2.5	2.6	2.5	2.9
Exports	724.5	750.1	724.4	759.1	756.3	779.6	811.0	830.7	754.2	745.7	100.0
Oil	503.5	508.6	492.2	514.3	503.7	510.4	520.8	526.1	481.7	472.4	63.3
Gas	221.1	241.5	232.2	244.8	252.5	269.2	290.2	304.5	272.5	273.3	36.7
Gasoline	7.6	8.5	8.1	9.2	9.4	8.3	7.9	8.4	9.8	6.9	0.9
Diesel	53.4	51.2	50.4	47.9	45.7	47.3	48.2	47.0	45.8	43.0	5.8
Heating Oil	64.8	71.4	72.6	75.0	57.0	54.5	56.5	55.1	49.3	52.9	7.1
Aviation Jet	0.2	2.4	3.1	3.0	3.0	2.9	3.4	3.0	2.3	2.3	0.3
LPG	5.3	5.8	6.7	6.8	7.9	7.9	8.3	7.5	6.5	6.3	0.8
CO₂ Emissions (Million tons CO₂)	2,456.4	2,417.1	2,306.2	2,239.9	2,243.3	2,289.8	2,385.6	2,404.3	2,323.0	2,525.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	484.8	465.9	441.0	437.3	434.5	434.0	439.9	371.2	369.9	384.5	-
Final energy intensity (toe/million \$15ppp)	111.3	106.7	106.4	105.2	107.1	107.8	108.4	91.5	92.3	94.0	-
Total energy intensity (toe/million \$15ppp)	205.9	197.6	191.2	187.4	191.9	190.7	198.4	165.6	163.8	171.2	-

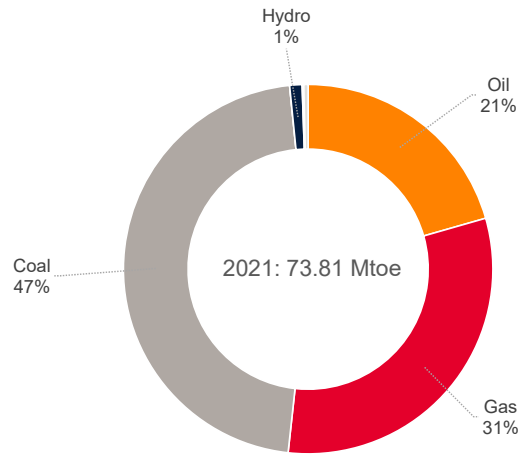
*Heat is included



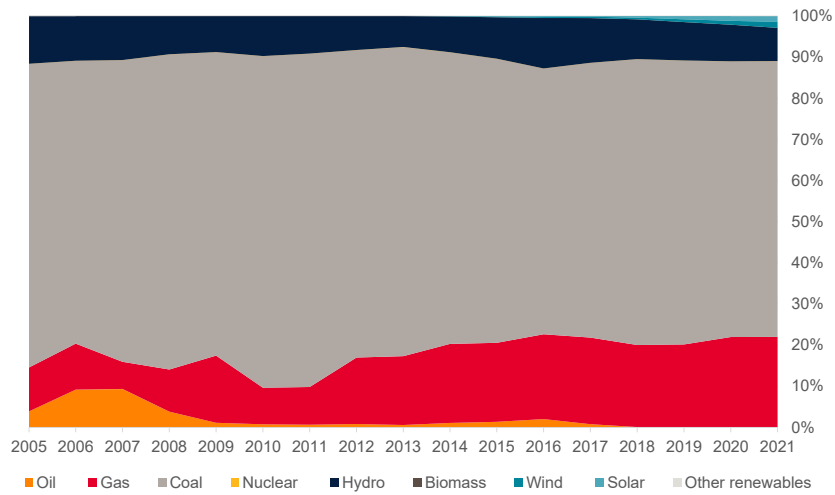
Kazakhstan (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	73.9	81.5	65.1	54.8	64.0	65.1	74.2	73.2	67.9	73.8	100.0
Oil	12.9	18.0	12.6	15.9	16.8	15.4	18.4	17.6	12.0	15.2	20.6
Gas	22.3	25.4	14.8	10.6	14.3	14.0	18.6	20.1	22.0	23.0	31.2
Coal	37.9	37.5	37.0	27.3	31.9	35.0	36.4	34.5	32.9	34.5	46.7
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	0.8	1.0	1.0	0.9	0.9	0.8	0.8	1.1
Biomass	0.0	0.0	0.0	0.1	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	0.1	0.1	0.2	0.3	0.4
Electricity balance of trade*	0.1	-0.1	-0.1	0.0	-0.1	-0.4	-0.3	-0.0	-0.1	-0.0	-0.1
Total final consumption, by source	42.4	43.5	40.6	39.2	39.6	41.0	42.1	42.7	41.6	44.5	100.0
Oil	10.0	13.6	10.4	12.6	13.1	12.6	12.0	11.0	10.3	12.2	27.5
Gas	2.9	2.9	4.7	4.7	5.2	5.6	5.6	8.4	8.7	9.1	20.4
Coal	17.0	15.2	12.9	9.6	9.5	10.2	10.4	9.8	8.7	8.9	20.1
Electricity	5.9	5.7	5.8	5.8	5.8	6.5	6.9	6.2	6.5	6.8	15.3
Heat	6.7	6.1	6.8	6.4	5.9	5.9	7.1	7.1	7.3	7.4	16.6
Biomass	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
Electricity generation, by source	8.0	8.9	8.2	7.9	8.1	8.9	9.3	9.2	9.3	9.9	100.0
Oil	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Gas	1.3	1.5	1.6	1.5	1.7	1.9	1.8	1.8	2.0	2.2	21.9
Coal	6.0	6.7	5.8	5.5	5.3	5.9	6.4	6.3	6.3	6.6	67.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.7	0.7	0.8	1.0	1.0	0.9	0.9	0.8	0.8	8.1
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	0.1	0.1	0.1	1.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	42.4	43.5	40.6	39.2	39.6	41.0	42.1	42.7	41.6	44.5	100.0
Industry	23.7	25.0	18.9	16.7	17.1	17.1	16.3	13.8	13.4	14.0	31.5
Transport	5.2	4.9	5.2	5.5	5.7	5.5	6.3	6.1	5.1	6.3	14.2
Residential/Commercial	9.9	10.7	13.7	14.7	14.3	15.8	16.4	19.7	19.8	20.8	46.7
Oil final consumption, by sector	10.0	13.6	10.4	12.6	13.1	12.6	12.0	11.0	10.3	12.2	100.0
Industry	2.2	5.1	2.0	3.5	4.3	3.7	2.2	1.5	1.6	1.7	13.7
Transport	4.9	4.6	4.7	5.0	5.2	4.9	5.7	5.6	4.7	5.8	47.6
Residential/Commercial	1.7	2.7	2.5	3.0	2.6	2.7	3.1	3.0	3.0	3.6	29.3
Natural gas final consumption, by sector	2.9	2.9	4.7	4.7	5.2	5.6	5.6	8.4	8.7	9.1	100.0
Industry	1.5	1.6	1.8	1.3	1.4	1.9	1.4	1.1	1.2	1.2	13.6
Transport	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	1.6
Residential/Commercial	1.2	1.1	2.6	3.1	3.4	3.3	3.5	6.8	7.1	7.3	81.2
Refined products consumption	9.7	10.2	10.1	12.1	12.5	12.0	12.0	11.0	10.3	12.2	100.0
Gasoline	4.0	4.0	4.0	4.4	4.7	4.6	4.8	4.8	3.9	4.9	39.8
Diesel	3.3	3.9	3.9	4.6	5.6	4.9	4.9	3.8	4.2	4.8	39.4
Heating Oil	1.0	0.9	0.8	1.4	0.6	0.7	0.5	0.4	0.4	0.3	2.3
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	2.3
LPG	0.4	0.5	0.5	0.8	0.8	0.9	1.1	1.2	1.0	1.3	10.9
Imports	12.2	14.6	6.6	6.6	7.8	7.6	10.0	14.5	14.1	13.7	100.0
Oil	8.5	10.2	2.9	1.9	2.0	2.1	1.7	0.6	1.3	0.9	6.5
Gas	3.6	4.3	3.7	4.7	5.9	5.5	8.3	13.9	12.8	12.8	93.5
Gasoline	1.3	1.2	1.2	1.4	1.2	1.1	0.6	0.0	0.0	0.0	0.0
Diesel	0.5	0.6	0.6	0.2	0.4	0.5	0.5	0.3	0.7	0.3	2.5
Heating Oil	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Aviation Jet	0.1	0.0	0.0	0.1	0.2	0.3	0.2	0.0	0.0	0.1	0.5
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	86.6	85.7	89.2	84.5	82.9	96.3	98.5	97.6	92.7	86.1	100.0
Oil	77.6	77.1	72.2	67.2	64.4	73.8	75.5	75.1	75.2	72.2	83.9
Gas	9.0	8.6	17.0	17.3	18.5	22.5	23.0	22.6	17.5	13.9	16.1
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.1
Diesel	1.8	1.8	1.8	0.2	0.1	0.1	0.2	0.0	0.1	0.2	0.3
Heating Oil	2.5	2.4	2.6	1.9	1.8	2.1	2.9	2.6	1.6	2.0	2.4
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	1.8	1.8	2.4	2.2	2.1	2.3	2.1	2.1	2.1	1.8	2.1
CO₂ Emissions (Million tons CO₂)	234.2	251.2	202.8	176.2	191.3	203.7	205.1	203.1	199.6	213.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	642.4	650.1	503.7	432.4	464.5	475.0	459.4	435.4	438.8	450.8	-
Final energy intensity (toe/million \$15ppp)	114.0	110.1	99.4	94.4	94.7	93.9	92.4	89.9	89.7	92.4	-
Total energy intensity (toe/million \$15ppp)	202.6	211.0	161.8	134.4	155.5	151.9	166.2	157.0	149.4	156.1	-

*Heat is included

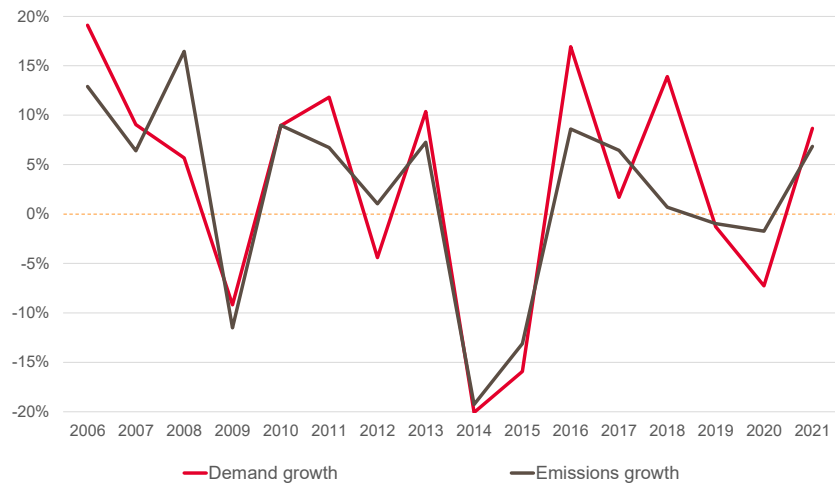
Primary energy demand mix



Electricity generation by source

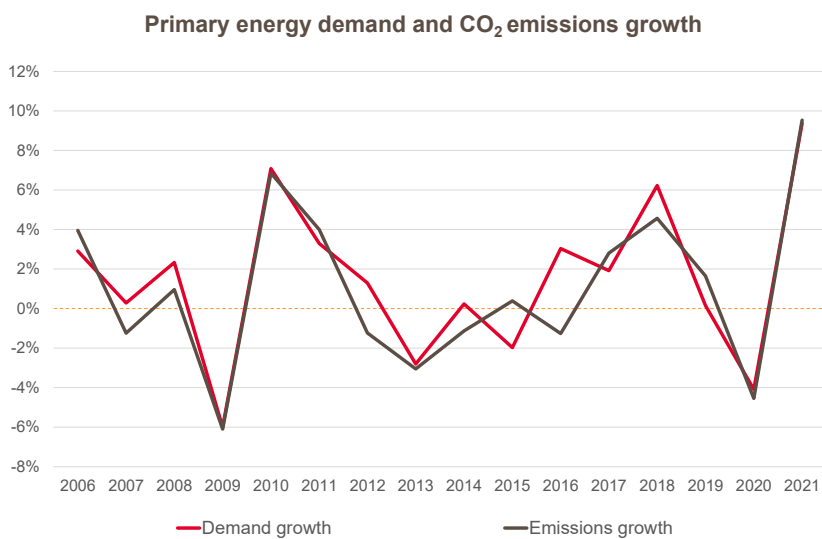
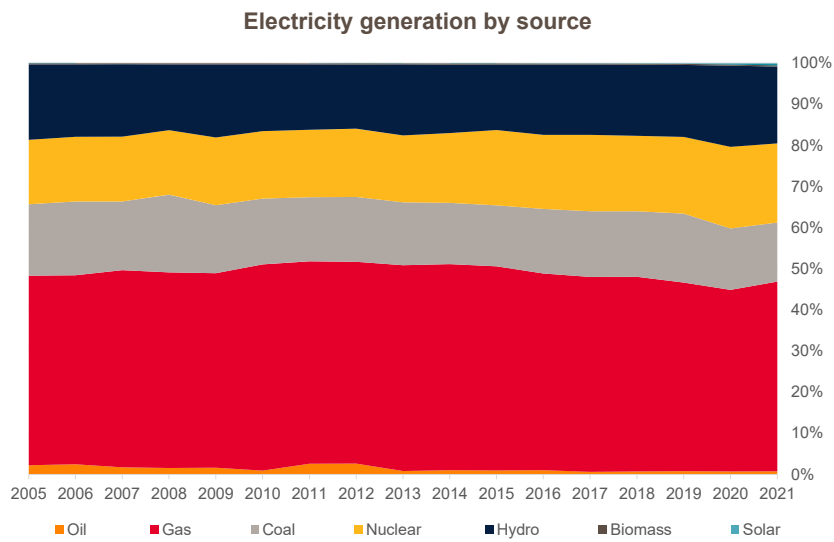
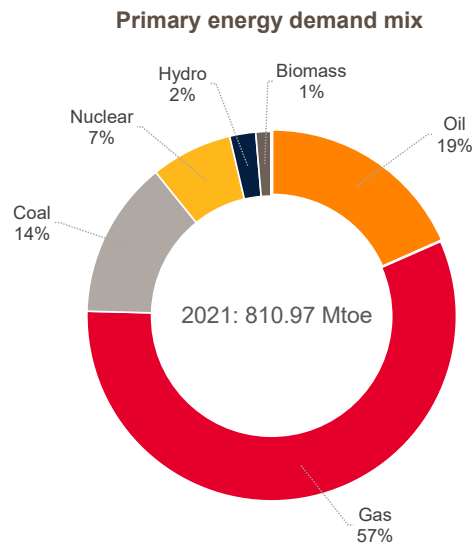


Primary energy demand and CO₂ emissions growth



Russia (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	724.6	704.3	705.9	692.0	713.0	726.7	771.9	773.1	741.5	811.0	100.0
Oil	156.2	145.1	148.7	139.4	155.2	154.0	148.3	149.4	142.1	149.2	18.4
Gas	387.1	386.2	385.4	364.3	371.3	384.8	428.1	418.1	404.2	463.2	57.1
Coal	114.4	106.0	102.9	115.9	112.0	111.7	117.8	125.2	110.6	111.9	13.8
Nuclear	46.3	45.0	47.1	50.9	51.2	52.9	53.3	54.5	56.3	58.0	7.1
Hydro	14.3	15.6	15.1	14.4	15.9	15.9	16.4	16.7	18.3	18.5	2.3
Biomass	7.4	7.2	7.1	7.7	8.1	7.8	8.6	10.2	10.3	10.7	1.3
Other renewables	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.5	0.1
Electricity balance of trade*	-1.0	-0.8	-0.3	-0.6	-0.9	-0.5	-0.7	-1.2	-0.5	-1.0	-0.1
Total final consumption, by source	426.5	415.6	432.7	431.7	442.1	465.2	489.7	497.6	481.6	515.9	100.0
Oil	103.4	108.4	114.3	114.4	113.0	120.6	124.4	130.2	123.6	129.0	25.0
Gas	101.1	100.7	111.3	114.1	122.3	136.3	155.3	154.9	153.0	178.4	34.6
Coal	34.1	32.2	33.7	35.6	35.8	35.2	35.4	38.9	37.6	38.1	7.4
Electricity	61.5	61.8	61.5	61.2	62.2	63.6	63.4	63.1	60.9	63.9	12.4
Heat	123.7	109.9	109.5	103.3	105.3	106.1	107.2	105.2	101.1	101.1	19.6
Biomass	2.7	2.6	2.5	3.1	3.5	3.4	4.0	5.3	5.4	5.4	1.1
Electricity generation, by source	92.1	91.1	91.5	91.8	93.8	94.1	95.9	96.4	93.4	99.5	100.0
Oil	2.4	0.7	0.9	0.9	0.9	0.6	0.7	0.7	0.7	0.7	0.7
Gas	45.2	45.6	45.9	45.6	44.9	44.6	45.4	44.2	41.3	45.9	46.2
Coal	14.5	13.9	13.6	13.6	14.7	15.0	15.3	16.2	13.9	14.3	14.3
Nuclear	15.3	14.8	15.5	16.8	16.9	17.5	17.6	18.0	18.6	19.1	19.2
Hydro	14.4	15.7	15.2	14.6	16.1	16.1	16.6	16.9	18.4	18.6	18.7
Biomass	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	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	426.5	415.6	432.7	431.7	442.1	465.2	489.7	497.6	481.6	515.9	100.0
Industry	157.3	146.0	150.9	150.0	159.9	161.0	150.0	156.0	149.9	158.8	30.8
Transport	64.2	64.9	66.0	64.8	62.9	63.8	68.2	69.4	65.7	71.6	13.9
Residential/Commercial	145.7	143.9	151.9	151.0	152.0	164.2	185.2	183.8	181.5	193.6	37.5
Oil final consumption, by sector	103.4	108.4	114.3	114.4	113.0	120.6	124.4	130.2	123.6	129.0	100.0
Industry	11.3	12.1	13.8	14.5	16.0	15.9	7.9	10.2	9.7	10.7	8.3
Transport	58.4	59.2	60.1	59.4	57.4	58.7	61.5	63.7	60.3	65.9	51.1
Residential/Commercial	8.5	9.2	10.7	10.5	9.8	12.9	15.6	16.0	15.2	14.1	10.9
Natural gas final consumption, by sector	101.1	100.7	111.3	114.1	122.3	136.3	155.3	154.9	153.0	178.4	100.0
Industry	34.1	33.7	37.2	35.5	36.7	38.3	38.3	38.5	36.8	43.0	24.1
Transport	0.0	0.0	0.1	0.1	0.2	0.3	1.6	0.6	0.6	0.7	0.4
Residential/Commercial	34.7	35.8	41.7	44.5	49.7	56.5	70.3	69.7	71.4	83.3	46.7
Refined products consumption	103.3	108.2	114.2	114.3	113.0	120.6	124.3	130.2	123.5	129.0	100.0
Gasoline	36.8	37.4	38.2	37.1	36.3	35.2	36.6	35.9	33.5	36.5	28.3
Diesel	23.0	23.6	26.6	27.3	24.8	28.0	29.5	33.4	33.9	38.1	29.5
Heating Oil	2.3	2.0	1.8	1.0	0.9	1.3	1.6	1.6	1.0	1.1	0.9
Aviation Jet	6.6	6.1	5.7	5.1	4.9	5.4	5.7	5.9	4.8	5.0	3.9
LPG	13.6	14.9	16.5	16.5	16.4	18.0	21.4	22.8	21.3	18.3	14.2
Imports	9.2	9.4	10.8	12.7	9.3	9.1	9.3	8.7	9.0	8.7	100.0
Oil	2.6	2.7	3.7	5.5	1.9	1.8	1.6	1.2	1.7	1.9	21.4
Gas	6.6	6.7	7.1	7.2	7.3	7.2	7.7	7.5	7.4	6.8	78.6
Gasoline	0.2	0.6	1.1	0.9	0.2	0.0	0.0	0.0	0.1	0.1	0.9
Diesel	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.3	3.1
Heating Oil	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	2.0
Aviation Jet	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.6
LPG	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	1.4
Exports	518.2	542.7	514.1	547.7	555.5	568.8	593.2	613.8	558.0	556.3	100.0
Oil	359.4	368.6	358.4	382.8	380.3	381.3	391.8	400.2	361.8	356.2	64.0
Gas	158.8	174.1	155.8	165.0	175.1	187.6	201.4	213.5	196.2	200.1	36.0
Gasoline	3.4	4.6	3.8	5.0	5.5	4.6	4.4	5.4	6.1	4.5	0.8
Diesel	41.9	43.2	41.0	39.1	38.8	41.3	42.8	41.2	40.3	37.8	6.8
Heating Oil	54.5	61.6	63.3	65.4	49.7	47.1	47.9	47.9	44.4	47.3	8.5
Aviation Jet	0.0	1.9	2.5	2.4	2.5	2.3	2.7	2.5	2.1	2.1	0.4
LPG	2.9	3.4	3.7	4.1	5.4	4.9	5.4	4.9	4.0	4.1	0.7
CO₂ Emissions (Million tons CO₂)	1,653.3	1,602.9	1,584.8	1,590.9	1,570.9	1,615.0	1,688.7	1,716.5	1,638.6	1,794.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	469.6	447.2	439.1	451.2	444.0	449.2	459.3	456.4	448.9	469.6	-
Final energy intensity (toe/million \$15ppp)	106.0	100.7	104.1	105.6	107.7	110.0	111.5	110.5	110.5	112.7	-
Total energy intensity (toe/million \$15ppp)	205.8	196.5	195.6	196.3	201.5	202.1	209.9	205.5	203.1	212.2	-

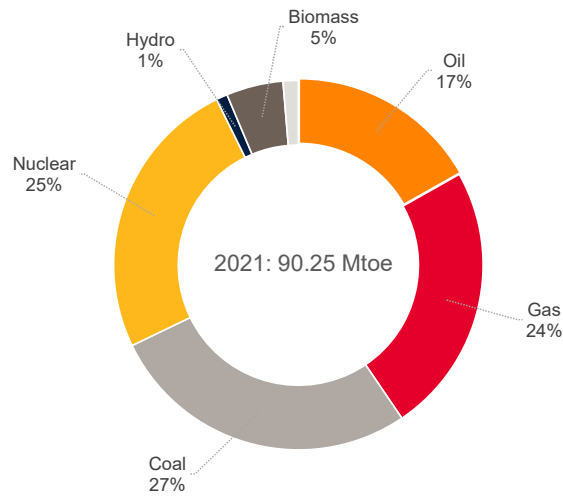
*Heat is included



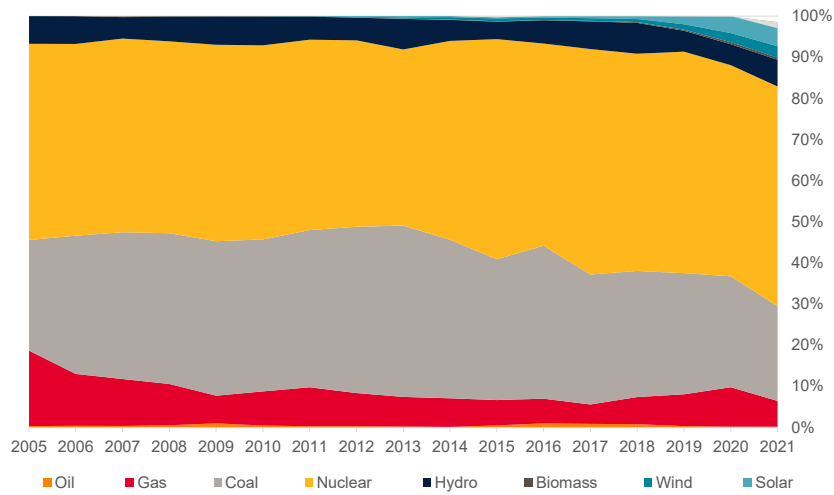
Ukraine (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	122.4	116.1	105.6	92.8	91.5	89.3	93.4	89.4	86.3	90.2	100.0
Oil	11.6	10.0	10.7	10.6	11.1	12.7	13.4	13.6	14.2	15.2	16.8
Gas	43.0	39.5	33.4	26.1	25.6	24.5	25.7	23.4	23.8	21.4	23.7
Coal	42.5	41.6	35.6	30.1	29.7	25.8	28.1	26.1	22.8	24.7	27.3
Nuclear	23.5	21.7	23.0	22.8	21.1	22.3	22.0	21.6	19.9	22.5	24.9
Hydro	0.9	1.2	0.7	0.5	0.7	0.8	0.9	0.6	0.7	0.9	1.0
Biomass	1.7	1.9	1.9	2.1	2.8	3.0	3.2	3.4	4.3	4.5	5.0
Other renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.8	1.2	1.3
Electricity balance of trade*	-1.0	0.2	0.0	0.5	0.3	0.1	0.0	0.3	-0.2	-0.1	-0.1
Total final consumption, by source	75.2	72.6	63.0	53.3	54.6	51.9	53.5	51.2	50.1	50.8	100.0
Oil	12.4	11.8	10.1	9.4	9.6	9.8	10.4	10.4	9.6	9.9	19.4
Gas	24.6	22.7	18.7	14.6	14.3	13.6	13.6	12.0	12.6	11.8	23.3
Coal	13.5	13.5	13.1	10.3	10.6	8.8	10.0	9.6	8.9	9.0	17.7
Electricity	11.8	11.8	11.0	10.2	10.1	10.0	10.2	10.0	9.7	10.3	20.3
Heat	11.9	11.7	8.9	7.5	8.3	7.8	7.5	7.2	7.2	7.5	14.7
Biomass	1.0	1.1	1.2	1.3	1.7	1.8	1.9	2.1	2.2	2.3	4.5
Electricity generation, by source	17.1	16.7	15.7	14.1	14.2	13.4	13.7	13.3	12.8	13.5	100.0
Oil	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.2
Gas	1.4	1.2	1.1	0.9	0.8	0.6	0.9	1.0	1.2	0.9	6.4
Coal	6.9	7.0	6.1	4.8	5.3	4.2	4.2	3.9	3.4	3.2	23.7
Nuclear	7.8	7.2	7.6	7.5	7.0	7.4	7.3	7.1	6.6	7.4	55.0
Hydro	0.9	1.2	0.8	0.6	0.8	0.9	1.0	0.7	0.7	0.9	6.7
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5
Wind	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	2.9
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.8	6.0
Other renewables	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-1.5
Total final consumption, by sector	75.2	72.6	63.0	53.3	54.6	51.9	53.5	51.2	50.1	50.8	100.0
Industry	29.1	27.0	24.8	20.6	20.1	18.9	20.3	19.6	19.2	19.5	38.4
Transport	9.7	9.5	8.0	7.1	7.7	7.9	8.0	8.3	7.3	7.3	14.5
Residential/Commercial	28.5	29.2	25.0	20.5	22.0	20.9	21.0	18.9	18.5	18.6	36.6
Oil final consumption, by sector	12.4	11.8	10.1	9.4	9.6	9.8	10.4	10.4	9.6	9.9	100.0
Industry	1.2	1.0	0.9	0.8	0.2	0.4	0.4	0.5	0.6	0.6	6.3
Transport	8.9	8.7	7.3	6.5	7.1	7.3	7.3	7.6	6.7	6.8	68.7
Residential/Commercial	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	1.6
Natural gas final consumption, by sector	24.6	22.7	18.7	14.6	14.3	13.6	13.6	12.0	12.6	11.8	100.0
Industry	5.3	4.4	3.3	2.8	2.5	2.7	2.9	2.7	2.8	2.7	22.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	14.2	14.1	12.5	9.4	9.9	9.6	9.6	7.7	7.4	6.9	58.4
Refined products consumption	12.4	11.8	10.1	9.4	9.6	9.8	10.4	10.4	9.6	9.9	100.0
Gasoline	4.5	4.2	3.3	2.5	2.3	2.1	1.9	1.7	1.8	1.9	19.6
Diesel	6.3	6.1	5.3	5.2	5.1	5.2	5.4	5.8	5.2	5.0	50.7
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.9	0.9	1.0	0.9	1.5	1.7	1.9	2.1	1.5	1.6	15.8
Imports	36.6	30.7	24.0	21.4	18.4	22.1	19.9	21.2	19.3	19.9	100.0
Oil	10.0	8.1	8.3	8.1	9.6	10.8	11.5	11.7	11.9	13.4	67.1
Gas	26.6	22.6	15.7	13.3	8.8	11.3	8.5	9.5	7.4	6.6	32.9
Gasoline	2.1	1.9	2.3	1.5	1.5	1.3	1.2	1.1	1.1	1.3	6.6
Diesel	4.8	4.3	4.8	4.9	5.2	5.5	5.6	6.3	6.1	6.6	32.9
Heating Oil	0.1	0.0	0.0	0.2	0.4	0.3	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.3	0.4	0.5	0.7	1.2	1.2	1.4	1.6	1.7	1.7	8.6
Exports	1.7	1.0	0.8	0.1	0.2	0.6	0.6	0.9	0.4	0.6	100.0
Oil	1.7	1.0	0.8	0.1	0.2	0.6	0.6	0.9	0.4	0.5	82.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	17.4
Gasoline	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.5	0.1	0.1	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0
Heating Oil	0.5	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	284.9	273.8	230.8	191.5	192.3	177.1	187.6	174.5	160.8	156.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	551.5	530.2	478.3	439.7	430.9	387.4	397.2	358.0	343.5	323.4	-
Final energy intensity (toe/million \$15ppp)	133.8	131.0	123.3	114.8	115.9	108.0	107.7	99.4	99.2	97.0	-
Total energy intensity (toe/million \$15ppp)	236.9	224.7	218.8	213.0	205.0	195.5	197.8	183.3	184.5	186.5	-

*Heat is included

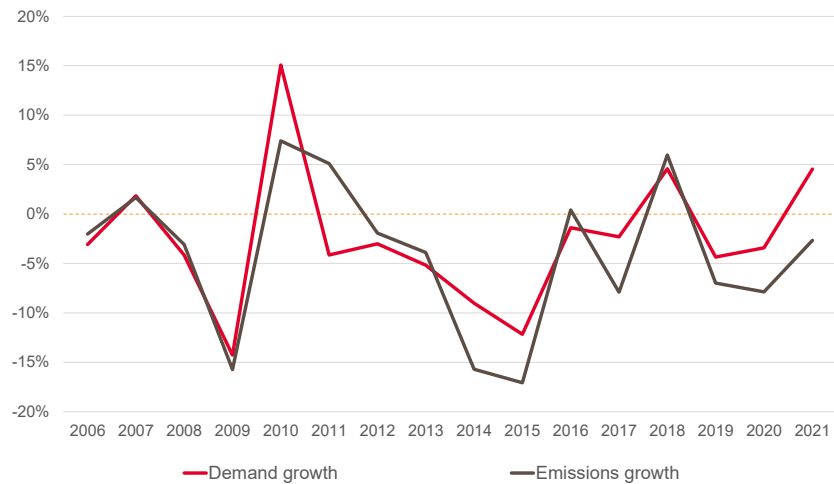
Primary energy demand mix



Electricity generation by source



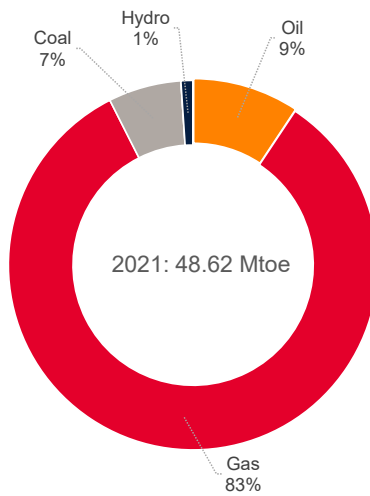
Primary energy demand and CO₂ emissions growth



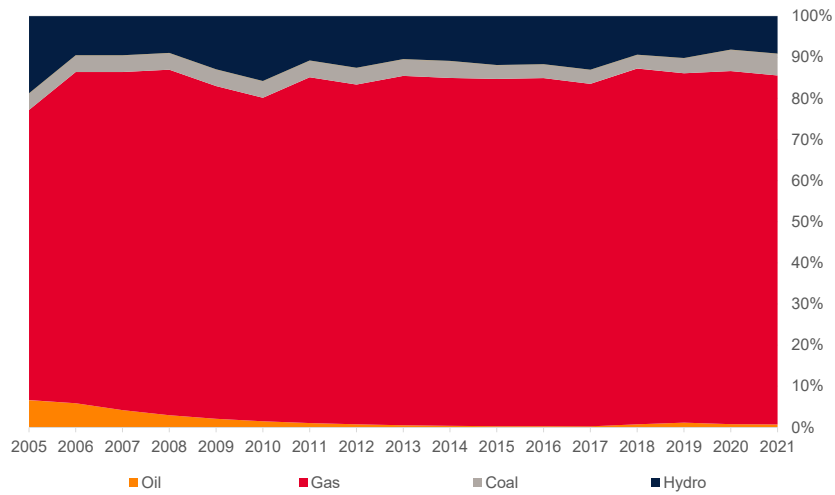
Uzbekistan (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	40.5	40.0	37.3	35.7	37.7	39.7	48.1	47.1	45.2	48.6	100.0
Oil	4.1	3.8	3.4	3.4	3.6	3.7	4.0	3.9	4.3	4.5	9.3
Gas	34.5	33.8	31.5	30.3	31.9	33.7	41.2	40.4	37.4	40.5	83.2
Coal	1.4	2.0	1.9	1.5	1.8	1.7	2.4	2.1	2.9	3.1	6.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.4	0.5	1.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.0	0.0
Total final consumption, by source	30.9	29.6	27.0	25.1	26.8	28.5	28.8	29.4	32.8	35.1	100.0
Oil	3.2	3.0	3.2	3.2	3.4	3.4	3.6	3.6	4.0	4.1	11.8
Gas	21.4	19.7	17.0	15.1	16.3	18.1	17.1	17.7	20.3	22.3	63.4
Coal	0.4	0.8	0.6	0.4	0.7	0.5	0.9	0.8	1.3	1.4	4.0
Electricity	3.3	3.4	3.5	3.6	3.7	3.8	4.5	4.5	4.3	4.4	12.5
Heat	2.7	2.7	2.7	2.7	2.7	2.6	2.7	2.9	2.9	2.9	8.2
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	4.6	4.7	4.8	4.9	5.0	5.2	5.4	5.5	5.3	5.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7
Gas	3.8	4.0	4.1	4.2	4.3	4.4	4.7	4.6	4.5	4.7	84.9
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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	0.6	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.4	0.5	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	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	30.9	29.6	27.0	25.1	26.8	28.5	28.8	29.4	32.8	35.1	100.0
Industry	7.6	7.1	6.5	6.0	6.4	6.9	6.6	7.2	6.8	7.3	20.8
Transport	2.5	2.4	2.3	2.3	2.4	2.4	5.0	5.5	5.7	6.2	17.5
Residential/Commercial	16.9	15.9	14.2	12.9	13.8	15.2	14.8	14.7	17.1	18.3	52.2
Oil final consumption, by sector	3.2	3.0	3.2	3.2	3.4	3.4	3.6	3.6	4.0	4.1	100.0
Industry	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.8
Transport	2.4	2.2	2.2	2.2	2.3	2.3	2.6	2.6	3.1	3.3	80.6
Residential/Commercial	0.1	0.1	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.4	10.5
Natural gas final consumption, by sector	21.4	19.7	17.0	15.1	16.3	18.1	17.1	17.7	20.3	22.3	100.0
Industry	5.7	5.2	4.5	4.0	4.4	4.8	4.5	4.9	4.3	4.7	21.2
Transport	0.1	0.1	0.0	0.0	0.0	0.0	2.3	2.8	2.5	2.7	12.3
Residential/Commercial	15.5	14.3	12.3	10.9	11.8	13.1	10.0	9.9	12.2	13.4	60.0
Refined products consumption	3.2	3.0	3.2	3.2	3.4	3.4	3.6	3.6	4.0	4.1	100.0
Gasoline	1.3	1.2	1.1	1.1	1.2	1.1	1.1	1.1	1.4	1.6	38.1
Diesel	1.2	1.1	0.9	0.9	1.0	1.1	1.1	1.1	1.4	1.4	34.4
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	2.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
LPG	0.3	0.3	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	18.5
Imports	0.8	0.8	0.7	0.8	1.1	1.1	1.3	0.9	1.5	1.8	100.0
Oil	0.8	0.8	0.7	0.8	1.1	1.1	1.3	0.9	1.5	1.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	18.7
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	32.2
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	4.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	11.2	9.2	7.9	8.9	8.6	7.6	10.0	10.0	2.5	2.7	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Gas	11.1	9.1	7.8	8.8	8.5	7.5	9.9	9.9	2.5	2.7	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
CO₂ Emissions (Million tons CO₂)	107.4	106.6	99.8	94.1	100.2	104.8	107.8	111.9	126.1	136.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	636.2	587.3	512.6	450.1	451.7	452.1	442.6	413.0	457.4	459.9	-
Final energy intensity (toe/million \$15ppp)	181.2	161.0	137.2	118.5	119.6	121.5	117.2	107.9	118.4	118.0	-
Total energy intensity (toe/million \$15ppp)	239.8	220.5	191.8	170.8	170.0	171.4	197.5	173.6	164.0	164.2	-

*Heat is included

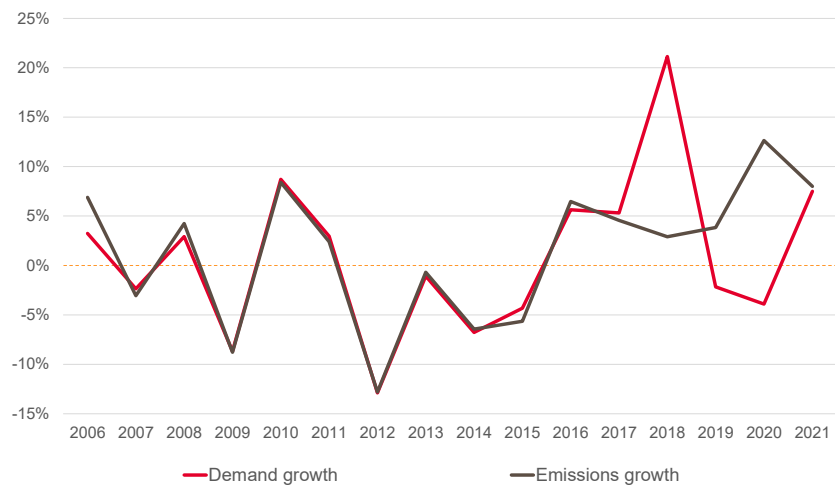
Primary energy demand mix



Electricity generation by source

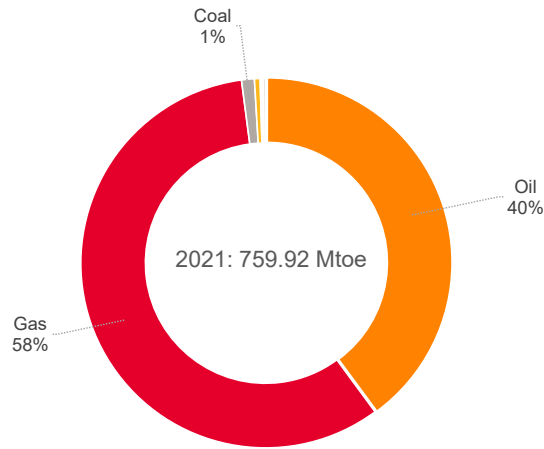


Primary energy demand and CO₂ emissions growth

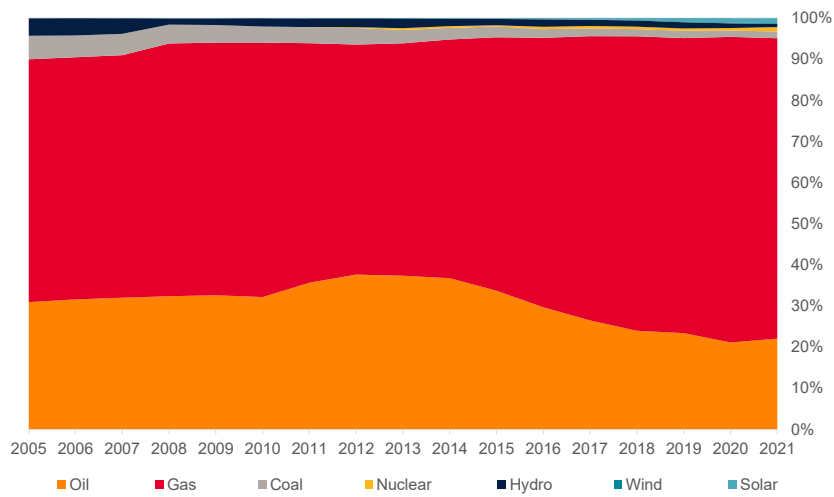


Middle East (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	675.6	686.0	721.8	740.0	757.6	774.9	775.8	783.2	762.8	759.9	100.0
Oil	321.1	319.5	338.8	334.0	335.4	338.5	330.6	324.7	297.1	302.6	39.8
Gas	339.3	351.3	368.1	391.6	407.5	421.8	429.9	443.8	451.1	440.2	57.9
Coal	11.6	10.4	10.3	9.9	8.9	8.8	8.3	8.0	7.8	8.5	1.1
Nuclear	0.5	1.2	1.2	0.8	1.7	2.0	1.9	1.9	2.0	3.8	0.5
Hydro	1.8	2.0	1.7	1.5	1.8	1.6	1.6	1.7	1.3	0.9	0.1
Biomass	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	0.1
Other renewables	0.1	0.1	0.2	0.2	0.3	0.4	0.6	1.1	1.4	1.6	0.2
Electricity balance of trade*	0.4	0.5	0.7	1.1	1.0	0.8	1.7	1.0	1.1	1.4	0.2
Total final consumption, by source	464.9	473.0	494.4	506.7	511.0	514.1	513.3	525.4	507.7	525.1	100.0
Oil	225.2	225.0	233.6	236.3	235.1	243.1	241.6	244.1	219.8	233.4	44.5
Gas	166.7	171.2	178.0	186.8	188.5	180.2	180.0	189.5	195.6	194.5	37.0
Coal	2.6	3.2	3.7	3.2	3.4	3.7	3.7	3.6	3.8	3.9	0.8
Electricity	69.2	72.3	77.8	78.9	82.7	85.6	86.5	86.8	86.9	91.7	17.5
Heat	0.5	0.5	0.6	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	0.9	0.9	0.9	0.9	0.9	0.2
Electricity generation, by source	84.2	87.0	93.0	97.4	100.7	105.3	106.3	109.7	110.0	115.7	100.0
Oil	31.7	32.5	34.2	32.8	29.9	27.9	25.5	25.7	23.3	25.5	22.1
Gas	47.1	49.2	54.0	60.0	66.0	72.8	76.2	78.7	81.7	84.5	73.0
Coal	3.4	2.8	2.6	2.6	2.1	2.0	1.8	1.9	1.7	1.9	1.6
Nuclear	0.2	0.4	0.4	0.3	0.6	0.6	0.6	0.6	0.7	1.2	1.1
Hydro	1.8	2.0	1.7	1.5	1.8	1.6	1.6	1.7	1.3	0.9	0.8
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Solar	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.9	1.2	1.4	1.2
Other renewables	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	464.9	473.0	494.4	506.7	511.0	514.1	513.3	525.4	507.7	525.1	100.0
Industry	142.9	145.7	156.3	158.3	154.1	146.2	140.0	149.5	151.4	152.1	29.0
Transport	133.7	136.2	139.0	138.6	141.6	147.1	146.1	146.1	129.0	138.0	26.3
Residential/Commercial	112.7	117.7	120.3	124.8	130.5	129.5	133.0	133.5	134.5	138.3	26.3
Oil final consumption, by sector	225.2	225.0	233.6	236.3	235.1	243.1	241.6	244.1	219.8	233.4	100.0
Industry	27.9	28.6	32.8	31.4	28.6	27.4	24.9	26.1	24.6	25.5	10.9
Transport	127.8	130.5	133.0	132.3	135.1	140.5	139.3	139.3	121.8	130.9	56.1
Residential/Commercial	18.8	17.6	15.7	14.8	15.2	15.1	15.1	14.7	13.9	14.1	6.0
Natural gas final consumption, by sector	166.7	171.2	178.0	186.8	188.5	180.2	180.0	189.5	195.6	194.5	100.0
Industry	96.6	97.1	101.5	108.0	104.1	96.6	92.3	100.8	103.6	102.7	52.8
Transport	5.9	5.6	6.0	6.3	6.5	6.5	6.7	6.8	7.1	7.1	3.6
Residential/Commercial	43.0	47.3	48.0	49.9	53.7	50.7	53.8	54.8	57.0	56.8	29.2
Refined products consumption	224.7	224.8	232.9	236.1	233.2	242.4	240.9	243.4	219.1	232.8	100.0
Gasoline	68.4	72.1	73.4	74.5	77.0	82.6	81.3	80.9	69.9	76.5	32.9
Diesel	75.2	73.9	74.3	71.0	70.9	70.6	70.7	71.5	64.7	68.0	29.2
Heating Oil	16.1	16.3	20.2	20.2	15.7	15.4	13.5	13.2	12.9	13.1	5.6
Aviation Jet	1.9	2.0	2.1	2.3	2.3	2.5	2.4	2.3	1.2	1.3	0.6
LPG	15.5	14.5	14.1	16.2	13.4	13.8	13.9	14.1	13.5	14.0	6.0
Imports	118.8	132.9	134.2	143.7	140.1	146.4	163.8	144.4	133.6	138.3	100.0
Oil	94.7	107.4	107.0	112.0	108.0	113.5	132.3	111.7	100.9	107.4	77.7
Gas	24.1	25.5	27.3	31.8	32.2	33.0	31.5	32.7	32.7	30.9	22.3
Gasoline	15.3	18.7	19.5	22.8	24.2	27.1	36.6	26.7	23.8	25.8	18.6
Diesel	21.9	24.4	23.0	23.5	20.3	13.1	18.3	9.3	7.6	20.1	14.5
Heating Oil	21.9	22.5	21.1	22.2	21.1	20.7	26.6	27.3	25.4	24.0	17.3
Aviation Jet	0.4	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.3	0.5	0.4
LPG	2.1	1.9	1.6	1.6	1.8	1.5	1.3	1.3	1.2	1.1	0.8
Exports	1,225.8	1,239.4	1,219.3	1,275.0	1,414.7	1,374.8	1,414.6	1,325.4	1,236.7	1,274.4	100.0
Oil	1,089.5	1,098.5	1,080.2	1,140.3	1,277.3	1,236.8	1,275.5	1,183.0	1,093.7	1,112.6	87.3
Gas	136.3	140.9	139.2	134.7	137.4	138.0	139.2	142.5	143.0	161.8	12.7
Gasoline	4.6	3.3	6.1	9.9	14.0	13.1	20.6	11.6	11.2	13.3	1.0
Diesel	25.3	27.3	34.9	47.4	55.6	56.2	70.0	59.9	55.5	66.5	5.2
Heating Oil	24.9	26.7	20.4	24.5	28.6	32.6	35.2	32.1	28.9	33.5	2.6
Aviation Jet	11.3	11.4	9.4	9.2	10.1	11.2	12.7	10.4	11.4	11.7	0.9
LPG	57.2	56.4	55.9	52.3	56.0	55.4	56.6	51.8	45.0	43.6	3.4
CO₂ Emissions (Million tons CO₂)	1,721.3	1,752.9	1,814.7	1,841.9	1,856.1	1,883.9	1,854.5	1,889.0	1,856.7	1,876.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	368.1	370.4	372.8	372.2	356.7	359.0	353.1	360.5	369.2	361.0	-
Final energy intensity (toe/million \$15ppp)	85.3	86.4	87.4	87.2	83.8	82.5	81.8	83.9	84.6	84.6	-
Total energy intensity (toe/million \$15ppp)	144.5	145.0	148.3	149.5	145.6	147.7	147.7	149.5	151.7	146.2	-

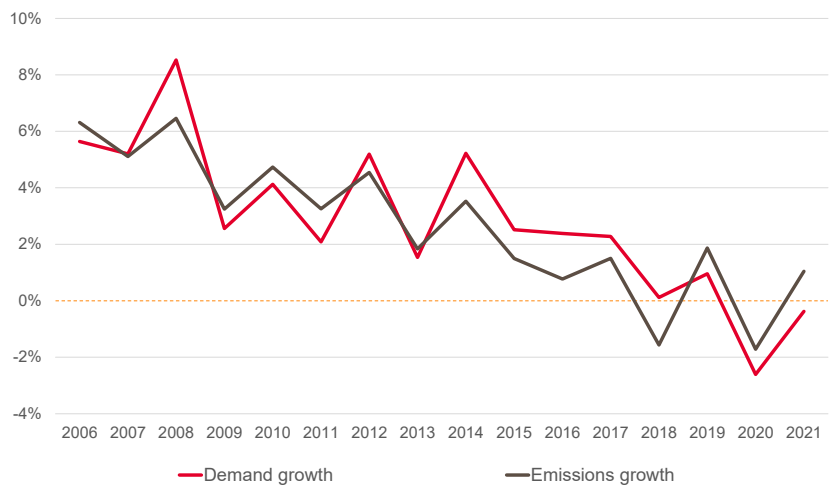
Primary energy demand mix



Electricity generation by source



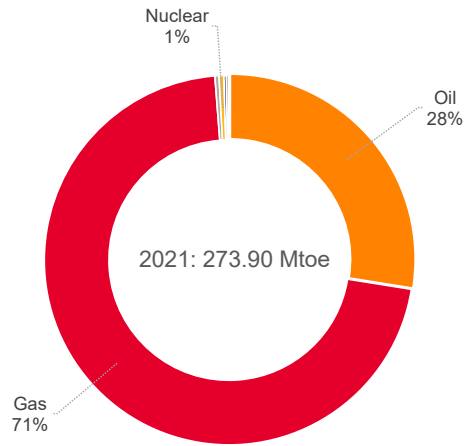
Primary energy demand and CO₂ emissions growth



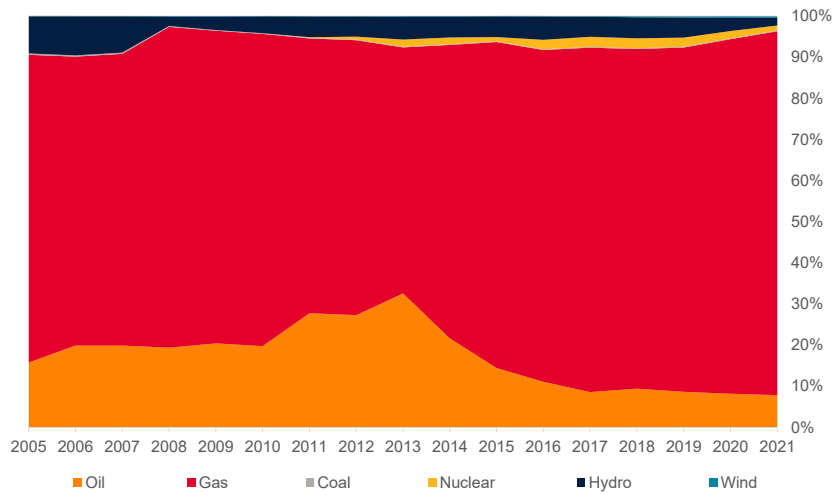
Iran (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	217.5	221.8	238.0	237.5	245.5	267.3	273.4	272.9	271.3	273.9	100.0
Oil	86.6	89.0	88.8	78.8	74.6	85.9	85.8	83.5	77.0	75.4	27.5
Gas	128.4	129.3	145.9	155.3	166.4	176.7	182.8	184.8	190.4	195.1	71.2
Coal	1.1	1.2	1.0	1.1	1.1	1.3	1.2	1.0	1.0	1.0	0.4
Nuclear	0.5	1.2	1.2	0.8	1.7	2.0	1.9	1.9	1.6	1.1	0.4
Hydro	1.1	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.0	0.6	0.2
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	0.1	0.1	0.1	0.1	0.0
Electricity balance of trade*	-0.6	-0.7	-0.5	-0.2	-0.2	-0.4	-0.3	-0.3	-0.2	0.1	0.0
Total final consumption, by source	164.0	170.4	181.6	181.6	188.7	195.1	201.1	201.1	200.4	204.2	100.0
Oil	60.9	62.4	67.4	66.9	64.9	68.7	71.0	69.5	63.4	65.9	32.3
Gas	84.8	88.9	93.6	94.9	101.5	102.6	106.1	107.3	111.8	111.4	54.5
Coal	0.7	1.0	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.3	0.6
Electricity	17.1	17.6	19.0	18.2	20.7	22.1	22.3	22.5	23.5	25.2	12.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
Electricity generation, by source	21.9	22.6	23.6	24.1	24.9	26.5	26.6	27.8	29.2	31.2	100.0
Oil	6.0	7.3	5.1	3.5	2.8	2.3	2.5	2.4	2.4	2.5	7.9
Gas	14.6	13.5	16.8	19.1	20.1	22.2	22.0	23.2	25.2	27.6	88.5
Coal	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
Nuclear	0.2	0.4	0.4	0.3	0.6	0.6	0.6	0.6	0.5	0.4	1.2
Hydro	1.1	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.0	0.6	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	0.0	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	0.1
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	164.0	170.4	181.6	181.6	188.7	195.1	201.1	201.1	200.4	204.2	100.0
Industry	41.9	42.2	48.2	45.7	45.5	47.4	48.8	49.2	50.9	51.2	25.1
Transport	42.2	43.4	44.4	42.9	44.2	46.3	47.9	47.5	44.3	46.2	22.6
Residential/Commercial	55.1	59.6	60.4	62.1	66.2	63.6	65.4	65.9	67.7	68.5	33.5
Oil final consumption, by sector	60.9	62.4	67.4	66.9	64.9	68.7	71.0	69.5	63.4	65.9	100.0
Industry	5.5	5.3	8.4	8.0	4.1	3.9	3.9	3.9	3.5	3.5	5.4
Transport	36.3	37.7	38.4	36.6	37.6	39.8	41.1	40.6	37.1	39.1	59.3
Residential/Commercial	7.5	7.3	6.4	6.1	6.1	5.5	5.5	5.4	4.9	4.9	7.5
Natural gas final consumption, by sector	84.8	88.9	93.6	94.9	101.5	102.6	106.1	107.3	111.8	111.4	100.0
Industry	29.8	30.1	32.5	32.1	33.6	35.2	36.4	36.8	38.4	38.2	34.3
Transport	5.9	5.6	6.0	6.3	6.5	6.5	6.7	6.8	7.1	7.1	6.3
Residential/Commercial	39.0	43.3	44.0	45.3	49.0	46.3	47.9	48.5	50.5	50.3	45.2
Refined products consumption	60.9	62.4	67.4	66.9	64.9	68.7	71.0	69.5	63.4	65.9	100.0
Gasoline	17.8	19.2	19.5	19.9	21.0	22.6	23.2	22.9	21.4	22.4	34.1
Diesel	24.1	24.2	24.0	21.5	21.3	22.1	23.2	23.0	20.9	22.0	33.4
Heating Oil	3.7	3.3	6.3	5.8	2.0	1.1	1.0	1.0	0.9	0.9	1.3
Aviation Jet	0.7	0.8	0.8	0.8	0.9	1.0	0.9	0.8	0.4	0.5	0.8
LPG	2.5	2.6	2.3	2.4	2.4	2.4	2.5	2.5	2.3	2.5	3.8
Imports	6.2	7.7	10.1	11.7	10.2	8.6	8.3	6.8	6.5	7.5	100.0
Oil	2.2	3.2	3.8	4.4	5.2	5.4	6.5	5.9	5.6	5.8	77.1
Gas	3.9	4.5	6.4	7.2	5.0	3.3	1.8	0.9	0.9	1.7	22.9
Gasoline	0.4	1.0	1.3	2.8	3.4	3.5	4.7	4.0	3.6	3.8	50.1
Diesel	0.0	0.2	0.3	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	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	86.4	82.1	85.2	92.3	156.9	154.1	141.5	82.9	62.5	85.4	100.0
Oil	78.6	74.2	77.0	84.6	149.2	142.9	129.7	70.0	53.0	76.8	89.9
Gas	7.9	7.9	8.2	7.7	7.7	11.2	11.8	12.9	9.6	8.6	10.1
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.6	0.2	0.0	1.8	3.5	2.1	2.1	2.2	2.1	2.2	2.6
Heating Oil	5.5	8.1	6.1	9.1	15.2	15.2	15.3	16.0	15.9	17.1	20.0
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	3.0	2.0	3.3	3.2	3.1	2.9	2.9	3.0	2.8	2.9	3.4
CO₂ Emissions (Million tons CO₂)	538.1	561.4	587.2	581.6	585.0	609.5	622.1	618.7	615.3	621.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	519.7	543.3	543.3	545.3	483.7	485.7	527.6	562.9	541.4	525.4	-
Final energy intensity (toe/million \$15ppp)	141.1	147.4	148.2	148.1	134.8	131.5	144.1	155.1	150.3	147.5	-
Total energy intensity (toe/million \$15ppp)	210.1	214.7	220.2	222.7	203.0	213.0	231.8	248.2	238.8	231.7	-

*Heat is included

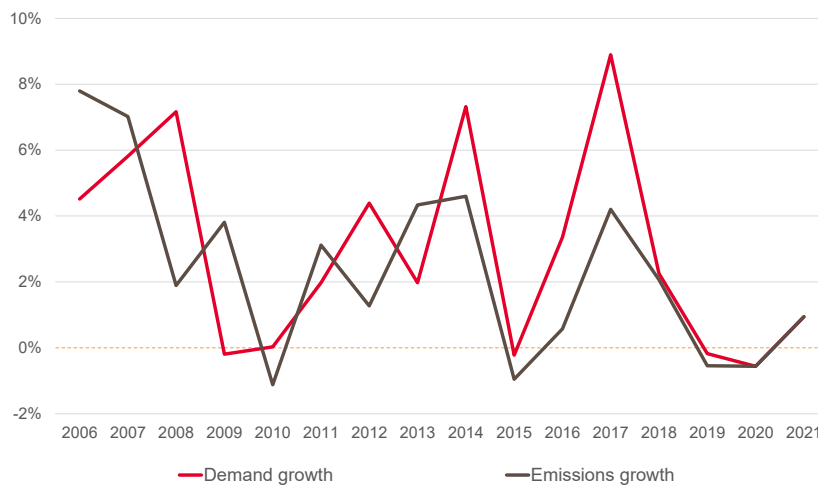
Primary energy demand mix



Electricity generation by source



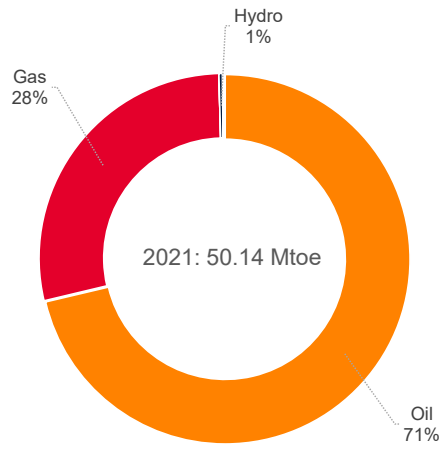
Primary energy demand and CO₂ emissions growth



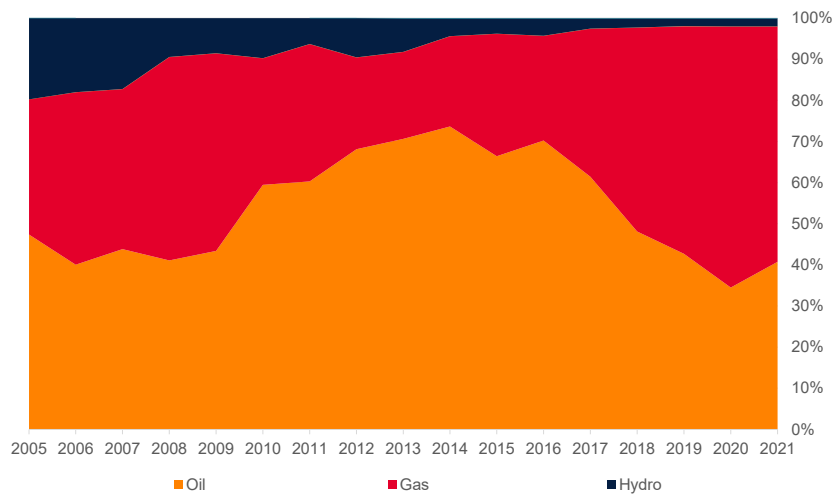
Iraq (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	40.1	41.5	39.6	37.5	40.3	45.6	53.9	55.2	48.8	50.1	100.0
Oil	33.0	34.3	32.7	30.4	32.7	35.9	38.5	38.8	32.1	34.9	69.6
Gas	5.7	5.7	5.5	5.7	6.2	8.4	13.3	15.0	15.4	13.8	27.6
Coal	0.0	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	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.9	1.0	1.1	1.1	1.0	1.0	1.9	1.2	1.2	1.2	2.4
Total final consumption, by source	24.8	24.6	19.6	17.0	17.8	19.6	22.1	23.2	20.8	23.6	100.0
Oil	18.7	18.3	14.2	12.7	13.0	14.8	17.0	18.0	15.7	18.6	78.9
Gas	3.0	2.4	1.6	1.2	1.4	1.4	1.3	1.4	1.4	1.3	5.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.0	3.9	3.8	3.1	3.3	3.4	3.7	3.8	3.7	3.7	15.7
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	0.1
Electricity generation, by source	4.0	5.0	5.8	5.9	6.9	7.5	7.1	8.2	7.9	8.0	100.0
Oil	2.7	3.6	4.3	3.9	4.8	4.6	3.4	3.5	2.7	3.3	40.7
Gas	0.9	1.1	1.3	1.8	1.8	2.7	3.5	4.6	5.0	4.6	57.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	1.9
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	24.8	24.6	19.6	17.0	17.8	19.6	22.1	23.2	20.8	23.6	100.0
Industry	5.9	5.2	4.1	3.3	3.4	3.6	4.0	4.3	4.0	4.2	17.7
Transport	11.1	10.6	8.4	8.1	8.2	9.4	10.9	11.6	9.4	11.6	49.1
Residential/Commercial	6.6	7.3	6.1	5.1	5.8	6.2	6.6	6.7	6.6	6.8	28.7
Oil final consumption, by sector	18.7	18.3	14.2	12.7	13.0	14.8	17.0	18.0	15.7	18.6	100.0
Industry	2.6	2.5	1.9	1.8	1.8	2.0	2.5	2.6	2.4	2.7	14.6
Transport	11.1	10.6	8.4	8.1	8.2	9.4	10.9	11.6	9.4	11.6	62.3
Residential/Commercial	4.3	4.3	3.2	2.6	2.9	3.2	3.3	3.4	3.4	3.5	18.8
Natural gas final consumption, by sector	3.0	2.4	1.6	1.2	1.4	1.4	1.3	1.4	1.4	1.3	100.0
Industry	2.5	1.9	1.4	1.0	1.2	1.1	1.1	1.2	1.1	1.0	81.5
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	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	18.7	18.3	14.2	12.7	13.0	14.8	17.0	18.0	15.7	18.6	100.0
Gasoline	6.3	6.1	5.0	4.8	5.0	5.7	6.4	6.7	5.6	7.3	39.3
Diesel	7.1	6.6	5.0	4.8	4.7	5.4	6.6	7.2	6.0	6.7	36.1
Heating Oil	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	1.3
Aviation Jet	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.2
LPG	2.0	2.2	1.8	1.3	1.5	1.7	1.8	1.8	1.8	1.9	10.3
Imports	5.1	4.6	4.4	4.4	4.8	6.3	8.5	10.1	9.8	8.8	100.0
Oil	5.1	4.6	4.4	4.4	4.8	5.0	4.8	5.1	4.0	5.4	61.7
Gas	0.0	0.0	0.0	0.0	0.0	1.3	3.7	5.0	5.7	3.4	38.3
Gasoline	2.5	2.2	2.0	2.1	2.3	2.6	2.7	2.9	2.1	3.7	42.4
Diesel	1.6	1.4	1.5	1.4	1.8	1.8	1.4	1.6	1.5	1.1	12.6
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.2	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.2	0.3	3.9
LPG	0.4	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	122.1	119.9	127.2	152.8	192.3	195.3	196.4	204.6	180.8	182.2	100.0
Oil	122.1	119.9	127.2	152.8	192.3	195.3	196.4	204.6	180.8	182.2	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	0.5	0.4	0.4	0.3	3.5	1.1	3.7	6.3	7.5	4.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1
CO₂ Emissions (Million tons CO₂)	103.7	112.0	106.0	100.8	107.1	119.8	127.9	139.3	123.3	133.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	337.2	338.3	319.7	290.2	271.0	308.8	321.3	330.1	346.4	354.4	-
Final energy intensity (toe/million \$15ppp)	76.5	69.9	56.2	47.4	44.0	49.3	54.0	53.5	56.0	59.9	-
Total energy intensity (toe/million \$15ppp)	130.2	125.3	119.3	108.0	102.0	117.5	135.3	130.9	137.2	133.0	-

*Heat is included

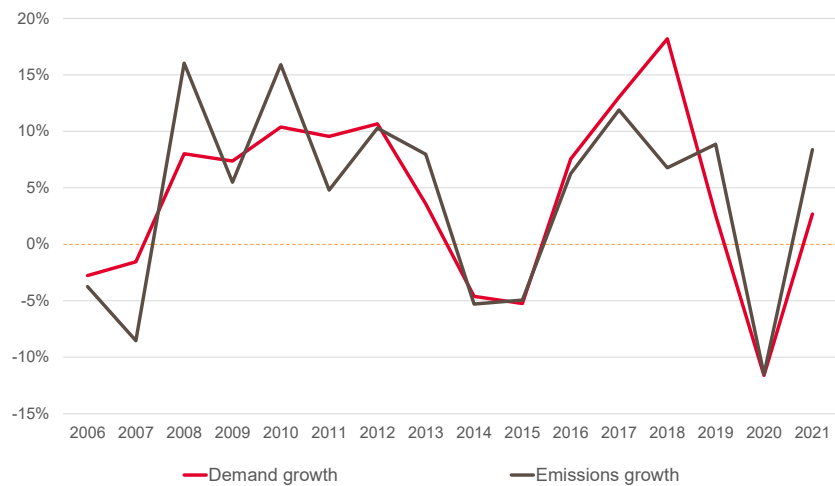
Primary energy demand mix



Electricity generation by source



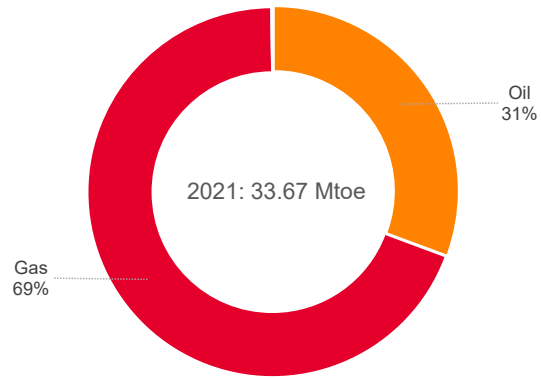
Primary energy demand and CO₂ emissions growth



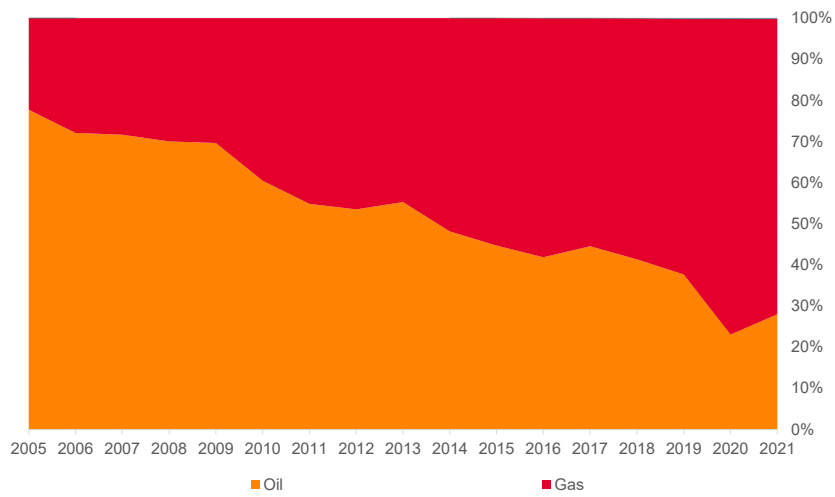
Kuwait (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	29.1	29.7	26.9	33.1	36.1	34.4	34.2	36.2	31.7	33.7	100.0
Oil	14.2	14.6	11.9	16.0	18.0	16.0	15.5	15.9	9.3	10.3	30.7
Gas	14.8	15.1	15.0	17.1	18.0	18.3	18.7	20.2	22.4	23.3	69.3
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	16.2	15.6	16.2	17.3	17.7	18.5	18.4	18.4	16.2	17.9	100.0
Oil	9.3	8.4	8.8	9.0	9.1	9.2	9.6	9.2	7.1	8.1	45.1
Gas	3.8	4.1	2.9	3.6	3.8	4.3	3.7	4.0	3.9	4.0	22.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.1	3.1	4.5	4.7	4.8	5.0	5.1	5.2	5.1	5.8	32.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	5.3	5.2	5.6	5.9	6.0	6.3	6.4	6.5	6.4	7.2	100.0
Oil	2.8	2.9	2.7	2.6	2.5	2.8	2.6	2.4	1.5	2.0	28.0
Gas	2.4	2.3	2.9	3.2	3.5	3.5	3.7	4.0	4.9	5.2	71.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	16.2	15.6	16.2	17.3	17.7	18.5	18.4	18.4	16.2	17.9	100.0
Industry	5.3	5.5	5.1	5.7	5.9	6.4	5.8	6.1	6.0	6.3	35.4
Transport	4.2	4.4	4.5	4.7	4.8	5.1	5.3	5.4	4.4	5.7	31.7
Residential/Commercial	2.8	2.7	3.4	3.5	3.7	3.9	3.9	4.0	3.9	4.4	24.5
Oil final consumption, by sector	9.3	8.4	8.8	9.0	9.1	9.2	9.6	9.2	7.1	8.1	100.0
Industry	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.6	0.7	8.7
Transport	4.2	4.4	4.5	4.7	4.8	5.1	5.3	5.4	4.4	5.7	70.3
Residential/Commercial	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	4.0
Natural gas final consumption, by sector	3.8	4.1	2.9	3.6	3.8	4.3	3.7	4.0	3.9	4.0	100.0
Industry	3.8	4.1	2.9	3.6	3.8	4.3	3.7	4.0	3.9	4.0	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	9.3	8.4	8.8	9.0	9.1	9.2	9.6	9.2	7.1	8.1	100.0
Gasoline	2.8	3.0	3.1	3.3	3.2	3.4	3.6	3.5	2.7	3.8	46.7
Diesel	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.2	2.6	32.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.2
Imports	2.2	1.8	2.7	3.3	4.1	4.5	4.1	4.2	4.9	7.4	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	17.7
Gas	2.2	1.8	2.7	3.3	4.1	4.5	4.1	4.2	4.9	6.1	82.3
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	1.3	17.7
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	143.0	140.3	139.0	138.1	143.0	133.4	135.8	130.0	124.0	122.7	100.0
Oil	143.0	140.3	139.0	138.1	143.0	133.4	135.8	130.0	124.0	122.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.7	0.0	0.2	0.5	0.7	0.6	0.5	0.4	0.2	0.2	0.1
Diesel	10.5	10.4	10.3	8.4	7.3	6.1	5.9	5.9	7.0	7.1	5.8
Heating Oil	5.2	3.3	3.6	4.9	4.4	3.7	3.6	3.1	1.3	0.8	0.7
Aviation Jet	2.2	2.0	1.8	1.9	1.6	0.9	1.0	0.7	0.9	1.0	0.8
LPG	5.1	4.9	5.0	5.4	6.3	7.2	7.3	6.0	4.9	5.0	4.1
CO₂ Emissions (Million tons CO₂)	84.7	85.4	83.6	87.9	89.5	89.3	89.9	90.8	91.3	102.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	477.9	476.9	464.4	485.4	479.8	502.7	499.5	502.5	553.7	610.2	-
Final energy intensity (toe/million \$15ppp)	69.4	70.8	72.4	77.8	77.8	86.6	84.4	86.2	87.1	98.7	-
Total energy intensity (toe/million \$15ppp)	164.2	165.7	149.3	182.5	193.4	193.4	190.3	200.2	192.5	201.5	-

*Heat is included

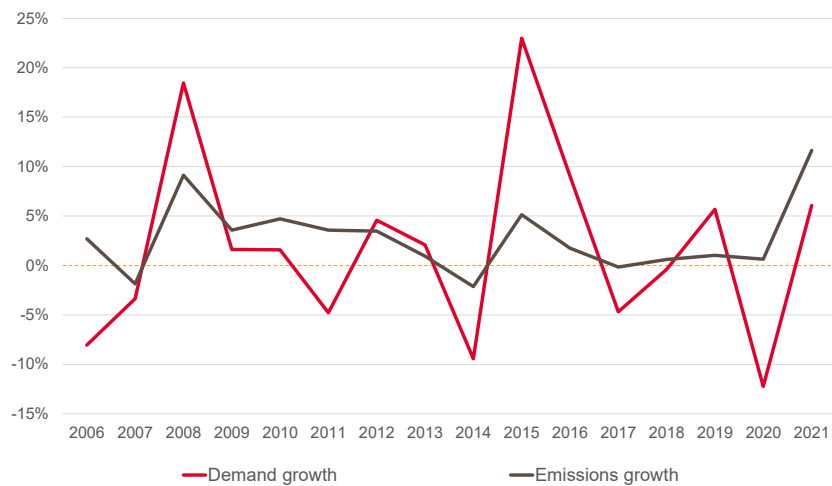
Primary energy demand mix



Electricity generation by source



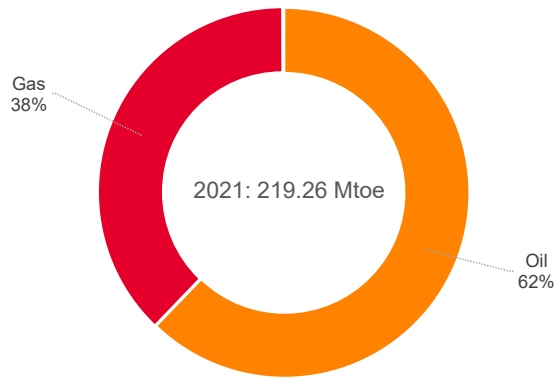
Primary energy demand and CO₂ emissions growth



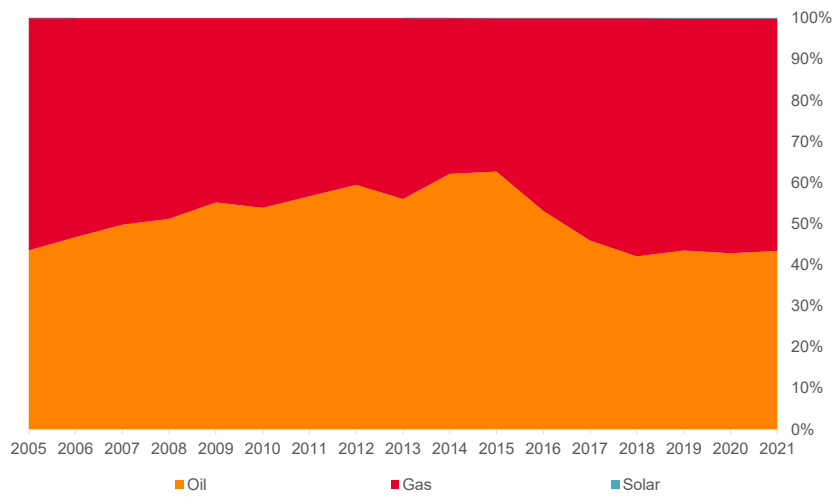
Saudi Arabia (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	188.7	187.6	206.7	216.4	214.8	218.9	213.7	214.6	214.8	219.3	100.0
Oil	122.4	120.7	137.1	145.1	140.6	140.9	134.5	134.3	133.4	136.3	62.2
Gas	66.2	66.9	69.5	71.3	74.2	78.0	79.1	80.2	81.4	82.9	37.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	0.0
Total final consumption, by source	131.7	131.9	144.5	153.0	144.6	139.4	136.8	139.8	133.9	139.8	100.0
Oil	80.6	80.8	86.8	93.4	90.7	89.0	84.7	88.2	81.9	86.3	61.7
Gas	29.3	27.9	32.6	33.1	27.4	23.6	25.7	26.3	26.6	27.1	19.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	21.8	23.2	25.2	26.4	26.6	26.7	26.3	25.3	25.3	26.4	18.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	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	24.8	26.0	28.9	30.9	31.6	32.5	33.3	33.2	33.2	34.6	100.0
Oil	14.8	14.6	18.0	19.4	16.8	14.9	14.0	14.4	14.2	15.0	43.4
Gas	10.1	11.4	11.0	11.5	14.8	17.6	19.3	18.7	19.0	19.6	56.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	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	0.1
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	131.7	131.9	144.5	153.0	144.6	139.4	136.8	139.8	133.9	139.8	100.0
Industry	40.9	41.5	47.6	48.1	42.4	37.5	37.1	37.9	38.4	39.0	27.9
Transport	42.3	43.1	45.6	49.1	48.9	47.8	45.5	45.6	39.8	41.2	29.5
Residential/Commercial	19.9	20.4	22.4	24.3	24.5	24.6	23.9	22.9	22.8	23.8	17.0
Oil final consumption, by sector	80.6	80.8	86.8	93.4	90.7	89.0	84.7	88.2	81.9	86.3	100.0
Industry	13.1	14.4	15.9	16.3	16.6	15.5	12.8	13.0	12.9	13.1	15.2
Transport	42.3	43.1	45.6	49.1	48.9	47.8	45.5	45.6	39.8	41.2	47.8
Residential/Commercial	1.7	1.6	1.5	1.7	1.8	1.8	1.8	1.8	1.8	1.8	2.1
Natural gas final consumption, by sector	29.3	27.9	32.6	33.1	27.4	23.6	25.7	26.3	26.6	27.1	100.0
Industry	24.6	23.1	27.7	28.4	22.3	18.5	20.4	21.2	21.5	21.9	80.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	80.1	80.5	86.1	93.2	88.8	88.3	84.0	87.5	81.2	85.6	100.0
Gasoline	22.1	23.1	23.9	25.6	25.5	26.1	24.4	24.3	20.4	21.4	25.0
Diesel	23.3	23.2	24.9	26.8	26.2	23.8	22.5	22.9	21.4	21.8	25.5
Heating Oil	8.9	10.2	11.3	11.8	11.1	11.7	9.8	9.8	9.9	10.0	11.7
Aviation Jet	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.5
LPG	5.1	4.3	4.7	7.7	4.1	4.3	4.5	4.8	4.9	4.9	5.7
Imports	16.9	24.8	24.2	30.2	28.9	25.3	43.4	18.6	20.7	20.9	100.0
Oil	16.9	24.8	24.2	30.2	28.9	25.3	43.4	18.6	20.7	20.9	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	4.2	6.1	7.2	10.1	9.4	9.1	15.0	4.2	4.6	3.8	18.2
Diesel	8.5	12.5	11.9	12.6	11.1	4.5	9.9	1.0	0.5	4.6	21.9
Heating Oil	3.2	5.4	3.2	5.2	7.2	10.1	16.0	10.7	12.5	9.3	44.6
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	442.2	444.2	431.9	453.8	485.4	451.0	492.5	445.1	414.7	409.3	100.0
Oil	442.2	444.2	431.9	453.8	485.4	451.0	492.5	445.1	414.7	409.3	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	2.0	1.7	4.5	7.6	9.7	8.7	15.2	4.6	5.1	6.9	1.7
Diesel	5.0	5.3	12.3	20.3	29.1	30.6	41.8	30.9	25.7	34.5	8.4
Heating Oil	9.8	9.6	5.3	4.8	3.6	4.5	10.4	4.3	2.1	4.5	1.1
Aviation Jet	0.3	0.3	0.7	0.2	0.7	0.3	0.3	0.3	0.2	0.2	0.0
LPG	26.1	25.1	25.8	22.9	28.4	27.8	28.5	26.6	22.7	21.3	5.2
CO₂ Emissions (Million tons CO₂)	481.7	488.6	525.0	550.7	546.8	535.9	511.5	517.2	517.8	513.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	346.2	342.0	354.5	357.2	348.8	344.4	320.9	323.4	337.7	324.2	-
Final energy intensity (toe/million \$15ppp)	74.4	73.7	78.3	79.0	74.1	70.9	67.1	66.8	66.1	66.0	-
Total energy intensity (toe/million \$15ppp)	135.6	131.3	139.6	140.4	137.0	140.7	134.1	134.2	140.1	138.5	-

*Heat is included

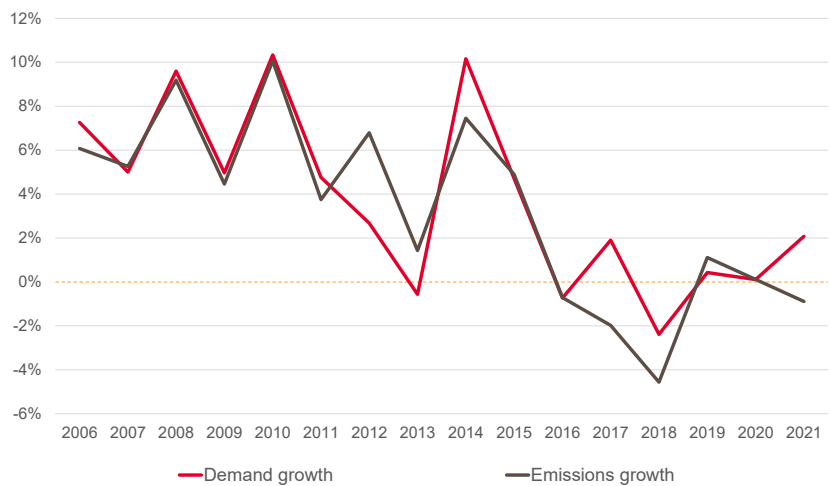
Primary energy demand mix



Electricity generation by source



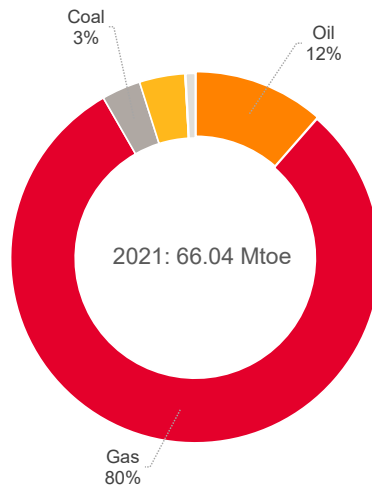
Primary energy demand and CO₂ emissions growth



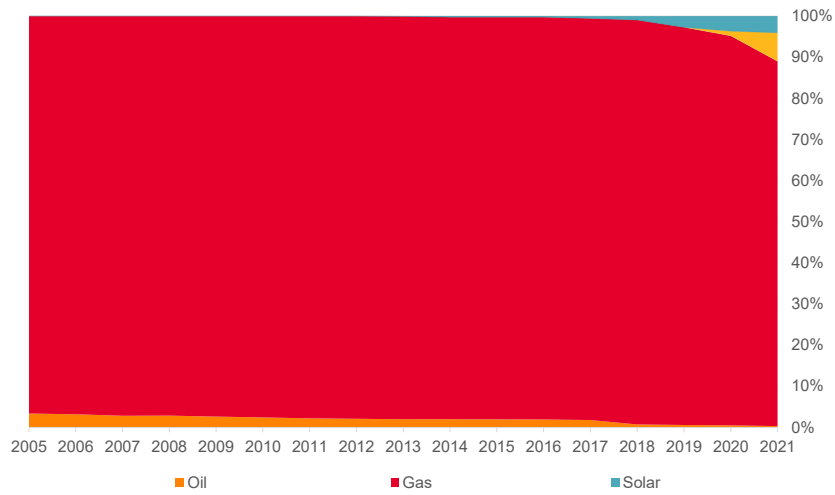
United Arab Emirates											
(Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	64.0	67.5	74.1	80.3	88.6	69.1	63.3	65.9	65.8	66.0	100.0
Oil	9.0	11.0	18.3	18.3	26.1	11.4	12.4	8.7	7.1	7.6	11.4
Gas	53.6	54.7	53.7	60.1	60.5	55.5	48.8	55.0	55.6	53.0	80.3
Coal	1.4	1.8	2.0	1.7	1.8	2.1	1.9	1.8	2.1	2.3	3.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.6	4.0
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	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.5	0.8
Electricity balance of trade*	-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 source	52.3	55.4	53.2	58.3	61.7	58.8	50.8	56.7	54.3	54.8	100.0
Oil	15.1	17.0	16.4	16.4	19.2	21.3	20.1	19.3	15.8	16.7	30.4
Gas	27.4	27.9	25.7	30.3	30.6	25.0	18.2	24.7	25.7	24.6	44.9
Coal	1.4	1.8	2.0	1.7	1.8	2.1	1.9	1.8	2.1	2.3	4.1
Electricity	8.3	8.7	9.2	9.8	10.0	10.3	10.5	10.8	10.6	11.3	20.6
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	0.1
Electricity generation, by source	9.1	9.5	10.0	11.0	11.1	11.6	11.7	11.9	11.8	12.6	100.0
Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.3
Gas	8.9	9.3	9.8	10.7	10.9	11.3	11.5	11.5	11.2	11.2	88.7
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	0.1	0.9	6.9
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	0.1	0.1	0.3	0.4	0.5	4.0
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	52.3	55.4	53.2	58.3	61.7	58.8	50.8	56.7	54.3	54.8	100.0
Industry	30.4	31.5	29.4	34.1	34.6	29.3	22.4	28.7	29.7	28.8	52.5
Transport	10.3	11.7	12.0	10.4	11.7	13.8	12.8	12.1	10.3	10.9	19.9
Residential/Commercial	7.8	8.1	8.5	9.1	9.2	9.5	9.6	9.8	9.7	10.3	18.9
Oil final consumption, by sector	15.1	17.0	16.4	16.4	19.2	21.3	20.1	19.3	15.8	16.7	100.0
Industry	1.2	1.3	1.3	1.4	1.5	1.5	1.5	1.5	1.2	1.3	7.6
Transport	10.3	11.7	12.0	10.4	11.7	13.8	12.8	12.1	10.3	10.9	65.5
Residential/Commercial	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.2	1.2
Natural gas final consumption, by sector	27.4	27.9	25.7	30.3	30.6	25.0	18.2	24.7	25.7	24.6	100.0
Industry	27.1	27.6	25.2	29.8	30.1	24.5	17.7	24.2	25.3	24.1	98.1
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	15.1	17.0	16.4	16.4	19.2	21.3	20.1	19.3	15.8	16.7	100.0
Gasoline	5.9	7.3	7.7	7.2	8.0	10.0	9.3	8.7	7.2	7.6	45.6
Diesel	4.2	4.1	4.0	2.9	3.4	3.5	3.0	3.0	2.9	3.1	18.4
Heating Oil	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.4	1.1	1.1	6.9
Aviation Jet	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.2	0.3	1.5
LPG	1.4	1.6	1.3	1.0	1.5	1.5	1.3	1.3	1.2	1.2	7.4
Imports	33.4	37.0	36.0	37.4	35.3	41.6	42.0	47.7	45.1	45.0	100.0
Oil	17.7	20.7	19.8	19.9	18.2	24.2	26.1	31.2	28.4	29.2	64.9
Gas	15.7	16.3	16.2	17.5	17.2	17.4	15.9	16.5	16.7	15.8	35.1
Gasoline	2.6	4.5	4.1	3.4	4.3	6.8	8.9	10.2	8.9	9.2	20.5
Diesel	0.7	1.4	0.5	2.4	0.7	0.2	0.6	0.2	0.1	0.1	0.3
Heating Oil	14.2	14.2	14.5	13.8	11.7	8.2	8.3	14.6	11.2	11.7	26.0
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	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Exports	164.6	174.1	160.6	170.5	168.3	181.8	186.6	197.9	193.6	190.9	100.0
Oil	158.6	168.3	154.1	164.4	162.2	176.0	180.6	191.8	187.8	184.5	96.7
Gas	6.0	5.8	6.4	6.2	6.1	5.8	6.0	6.2	5.8	6.4	3.3
Gasoline	0.0	0.0	0.0	0.9	2.8	3.1	3.3	5.3	4.8	4.9	2.6
Diesel	0.6	1.0	0.7	5.6	5.7	7.3	8.7	10.1	9.5	9.6	5.0
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	4.0	4.5	2.6	3.4	4.6	5.5	6.1	4.6	6.4	6.5	3.4
LPG	11.1	12.2	9.5	9.6	6.9	6.3	5.5	6.5	5.8	5.9	3.1
CO₂ Emissions (Million tons CO₂)	171.4	178.2	177.0	188.2	194.4	190.0	169.0	180.7	176.1	175.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	328.6	325.1	309.3	313.0	314.1	299.7	263.5	272.5	282.8	275.5	-
Final energy intensity (toe/million \$15ppp)	93.2	93.6	87.2	89.2	89.8	83.1	69.8	76.4	79.8	78.6	-
Total energy intensity (toe/million \$15ppp)	122.7	123.3	129.4	133.6	143.2	109.0	98.7	99.3	105.7	103.7	-

*Heat is included

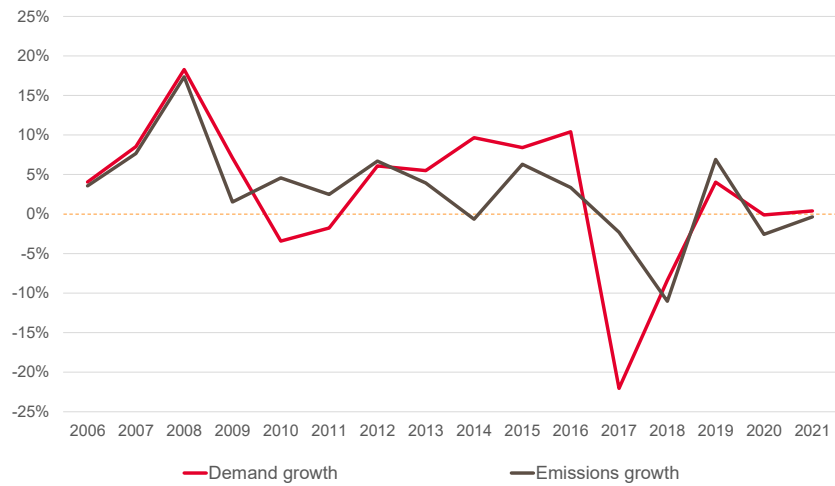
Primary energy demand mix



Electricity generation by source



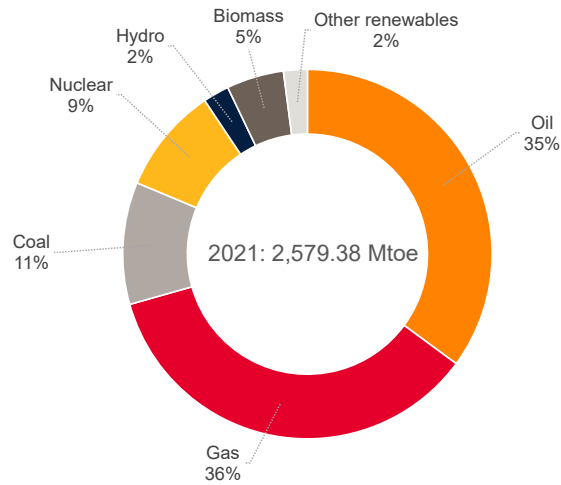
Primary energy demand and CO₂ emissions growth



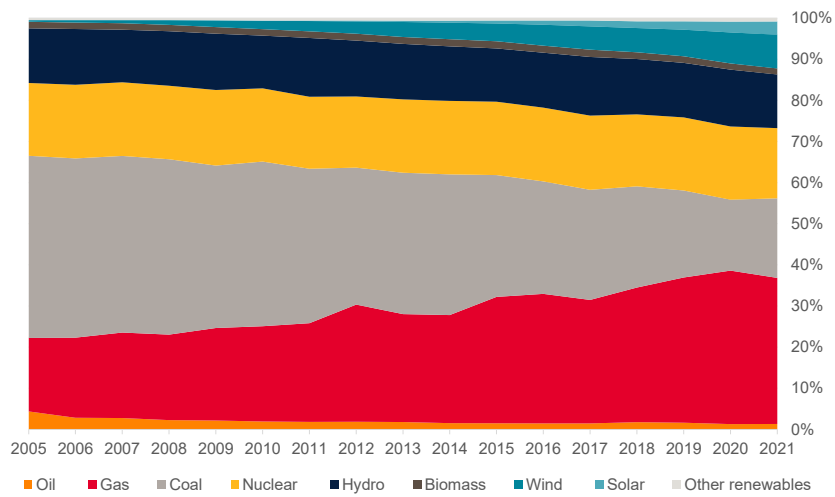
North America (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	2,612.9	2,657.6	2,687.6	2,658.2	2,647.4	2,645.5	2,716.4	2,711.1	2,477.4	2,579.4	100.0
Oil	976.1	972.1	973.0	988.9	976.0	982.5	991.7	985.5	840.3	898.9	34.9
Gas	737.9	756.3	776.8	796.7	822.6	817.8	883.0	927.9	903.6	909.5	35.3
Coal	455.8	464.4	464.8	404.0	373.5	361.3	347.1	300.8	241.2	273.6	10.6
Nuclear	235.8	244.3	246.9	245.9	248.1	247.8	249.1	249.1	243.0	238.5	9.2
Hydro	59.4	59.4	58.7	57.1	59.0	62.7	61.4	59.6	60.6	58.6	2.3
Biomass	117.6	126.1	128.9	124.7	123.0	124.9	129.8	131.1	123.6	128.4	5.0
Other renewables	14.6	18.2	21.2	23.6	28.6	32.9	36.1	39.9	46.8	53.4	2.1
Electricity balance of trade*	15.8	16.9	17.3	17.4	16.6	15.7	18.2	17.2	18.3	18.5	0.7
Total final consumption, by source	1,748.3	1,796.4	1,819.3	1,813.7	1,821.6	1,830.8	1,887.7	1,888.9	1,712.6	1,786.1	100.0
Oil	875.2	883.8	887.7	905.8	911.9	912.8	928.9	926.1	796.6	849.5	47.6
Gas	352.0	380.1	395.7	378.6	381.0	391.1	412.5	422.0	399.0	405.6	22.7
Coal	35.5	35.5	34.0	31.7	27.1	28.2	27.4	25.6	20.5	22.6	1.3
Electricity	383.6	387.4	391.0	390.5	394.0	390.8	404.3	399.2	385.3	392.7	22.0
Heat	9.7	9.1	9.2	8.9	9.9	9.0	10.8	10.0	10.1	10.3	0.6
Biomass	92.4	100.6	101.7	98.2	97.7	98.9	103.8	106.1	101.0	105.2	5.9
Electricity generation, by source	449.8	452.5	455.9	454.6	456.4	453.3	470.1	462.8	451.0	461.3	100.0
Oil	8.3	8.0	6.9	6.7	6.6	6.6	8.3	7.5	5.8	6.0	1.3
Gas	128.2	118.8	119.8	139.6	143.8	136.0	153.8	163.5	168.3	163.8	35.5
Coal	149.8	155.6	155.9	134.7	124.8	121.5	115.8	97.9	77.8	89.3	19.4
Nuclear	77.8	80.6	81.5	81.2	81.9	81.8	82.2	82.2	80.2	78.7	17.1
Hydro	61.1	61.1	60.5	58.8	60.9	64.7	63.3	61.4	62.4	60.2	13.0
Biomass	7.5	7.7	7.9	7.8	7.8	7.9	7.8	7.5	6.7	6.8	1.5
Wind	13.5	16.5	18.3	19.7	23.3	25.7	27.7	29.9	34.1	37.8	8.2
Solar	1.0	1.5	2.4	3.3	4.7	6.5	7.8	9.3	11.9	14.9	3.2
Other renewables	2.7	2.7	2.7	2.6	2.6	2.6	3.6	3.6	3.7	3.7	0.8
Total final consumption, by sector	1,748.3	1,796.4	1,819.3	1,813.7	1,821.6	1,830.8	1,887.7	1,888.9	1,712.6	1,786.1	100.0
Industry	354.4	354.2	352.6	352.2	355.3	354.0	360.0	359.8	341.6	352.7	19.7
Transport	672.5	691.2	690.9	711.6	720.6	726.1	736.2	733.7	628.7	677.5	37.9
Residential/Commercial	526.7	564.0	579.3	559.2	552.4	550.8	587.7	587.5	560.2	568.4	31.8
Oil final consumption, by sector	875.2	883.8	887.7	905.8	911.9	912.8	928.9	926.1	796.6	849.5	100.0
Industry	30.4	30.2	27.4	30.2	31.8	29.7	30.2	27.5	27.1	28.7	3.4
Transport	637.2	652.5	651.7	671.8	677.9	682.0	692.8	689.9	589.3	635.8	74.8
Residential/Commercial	36.1	37.4	35.5	37.5	36.7	34.5	34.8	33.8	32.2	33.5	3.9
Natural gas final consumption, by sector	352.0	380.1	395.7	378.6	381.0	391.1	412.5	422.0	399.0	405.6	100.0
Industry	144.4	144.3	148.4	148.5	154.9	154.4	157.3	160.6	155.2	159.6	39.3
Transport	0.8	0.7	0.9	1.0	1.1	1.3	1.3	1.4	1.5	1.6	0.4
Residential/Commercial	187.0	215.2	226.3	207.8	200.4	205.3	224.8	230.9	212.3	213.2	52.6
Refined products consumption	873.1	881.3	885.2	901.5	908.9	908.4	923.2	917.6	789.8	842.6	100.0
Gasoline	429.4	434.8	436.2	448.3	456.2	452.7	454.1	452.1	388.3	419.7	49.8
Diesel	223.3	223.1	230.3	225.5	221.5	225.1	231.6	226.8	211.2	217.4	25.8
Heating Oil	6.8	3.4	2.5	4.9	4.0	3.7	3.3	2.4	1.9	2.1	0.3
Aviation Jet	53.1	54.6	55.7	58.1	60.6	64.2	65.6	66.7	40.0	50.1	6.0
LPG	46.8	52.1	48.4	49.8	48.5	46.2	49.7	50.1	37.3	38.3	4.5
Imports	759.2	697.3	663.3	691.3	744.2	752.0	752.0	705.6	604.8	641.7	100.0
Oil	641.5	586.3	559.1	581.7	620.3	624.6	621.5	579.2	488.7	516.3	80.5
Gas	117.7	111.0	104.3	109.6	123.9	127.4	130.5	126.4	116.1	125.3	19.5
Gasoline	53.1	50.3	48.8	55.0	60.7	58.3	63.4	68.4	51.9	54.3	8.5
Diesel	14.4	15.5	18.8	20.5	19.9	22.8	26.4	24.7	22.2	26.4	4.1
Heating Oil	19.3	16.4	12.9	13.2	13.8	14.3	15.4	12.4	12.3	13.0	2.0
Aviation Jet	5.8	6.9	8.1	11.0	12.1	12.9	12.4	14.6	10.0	10.9	1.7
LPG	7.2	7.3	7.2	8.3	10.4	12.1	13.3	14.9	15.0	16.1	2.5
Exports	486.6	505.7	544.0	580.5	629.5	710.4	790.5	857.9	855.2	881.0	100.0
Oil	376.0	400.5	443.5	474.1	505.8	564.2	638.5	683.6	668.6	659.0	74.8
Gas	110.6	105.2	100.5	106.4	123.7	146.2	152.0	174.2	186.6	222.0	25.2
Gasoline	29.7	29.8	31.8	35.9	43.1	46.8	50.5	49.6	42.9	47.8	5.4
Diesel	58.3	64.8	61.5	65.8	66.3	76.8	70.9	73.9	68.5	63.0	7.2
Heating Oil	28.3	29.0	30.6	27.3	25.4	25.3	28.1	18.1	13.0	13.9	1.6
Aviation Jet	7.0	8.3	8.5	8.8	9.2	10.4	12.3	12.3	5.3	5.7	0.6
LPG	0.6	0.7	17.6	24.8	31.4	35.9	39.8	47.2	53.9	55.9	6.4
CO₂ Emissions (Million tons CO₂)	6,075.8	6,178.9	6,207.2	6,068.5	5,978.7	5,923.7	6,025.0	5,909.7	5,253.5	5,554.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	296.1	295.7	289.5	275.1	266.3	257.8	254.8	245.2	227.2	227.6	-
Final energy intensity (toe/million \$15ppp)	85.2	86.0	84.9	82.2	81.1	79.7	79.8	78.4	74.0	73.2	-
Total energy intensity (toe/million \$15ppp)	127.3	127.2	125.4	120.5	117.9	115.1	114.9	112.5	107.1	105.7	-

*Heat is included

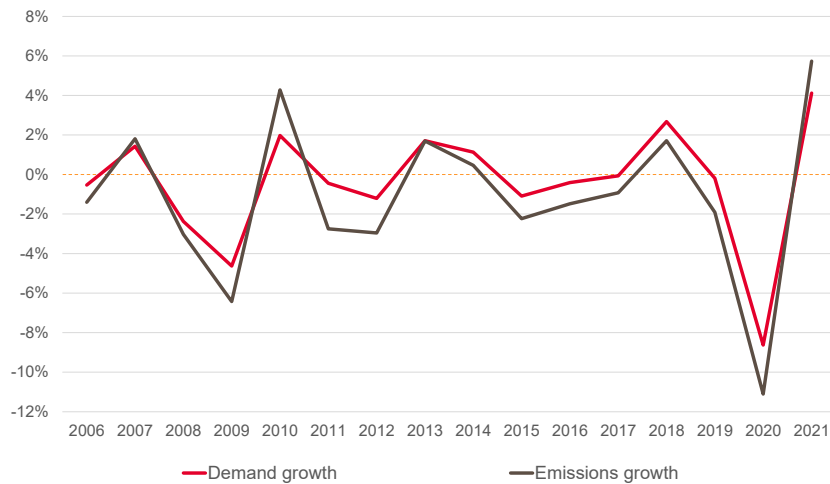
Primary energy demand mix



Electricity generation by source



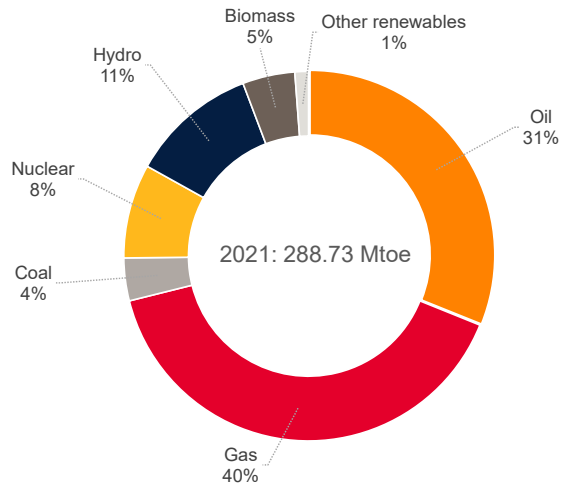
Primary energy demand and CO₂ emissions growth



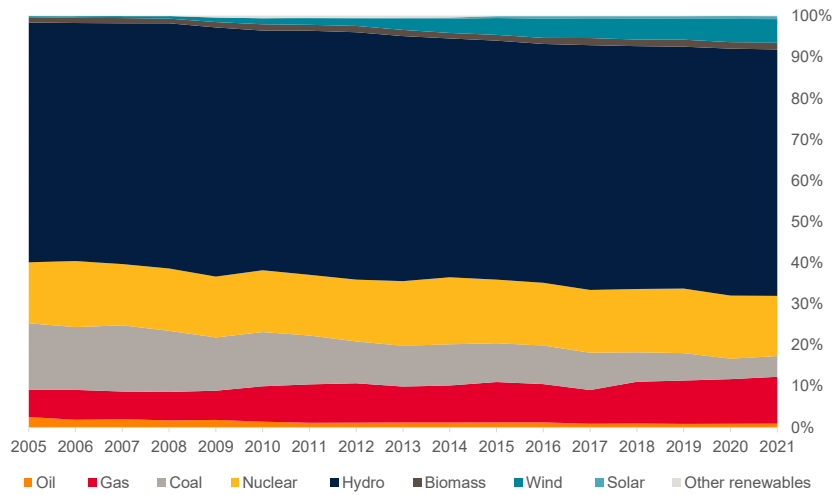
Canada (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	269.4	275.0	282.1	280.3	293.2	303.1	307.3	306.4	281.9	288.7	100.0
Oil	97.9	95.6	99.0	105.0	99.6	102.0	104.1	103.5	88.9	91.0	31.5
Gas	83.7	87.6	88.7	85.4	103.6	111.3	116.8	116.9	111.9	117.2	40.6
Coal	19.5	19.3	20.4	18.4	19.6	17.9	14.2	14.0	10.6	10.9	3.8
Nuclear	24.7	27.0	28.0	26.5	26.4	26.4	26.3	26.4	25.6	24.1	8.4
Hydro	32.7	33.7	32.9	32.9	33.1	33.9	33.2	32.6	33.1	32.6	11.3
Biomass	13.6	14.4	14.7	14.5	13.3	13.8	13.6	13.8	13.3	13.4	4.6
Other renewables	1.0	1.7	2.1	2.6	3.0	3.0	3.2	3.2	3.5	3.5	1.2
Electricity balance of trade*	-3.8	-4.2	-3.7	-5.1	-5.4	-5.3	-4.1	-4.0	-4.9	-4.0	-1.4
Total final consumption, by source	192.9	194.6	195.6	195.1	195.1	198.8	204.7	202.8	184.4	187.2	100.0
Oil	92.7	91.3	89.7	91.1	92.3	92.3	94.8	93.2	79.6	81.6	43.6
Gas	42.2	44.2	45.4	44.6	45.3	47.1	49.5	49.1	46.5	47.1	25.1
Coal	4.4	3.8	3.7	3.3	3.3	3.5	3.5	3.3	2.5	2.5	1.4
Electricity	41.7	42.7	43.4	43.2	42.7	44.3	45.3	45.7	44.6	44.7	23.9
Heat	0.7	0.7	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.3
Biomass	11.2	11.8	12.4	12.1	10.8	10.9	10.9	11.0	10.7	10.8	5.7
Electricity generation, by source	54.4	56.6	56.7	56.6	57.1	57.0	56.2	55.5	55.1	54.4	100.0
Oil	0.6	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.9
Gas	5.2	4.9	5.1	5.6	5.3	4.7	5.7	5.8	6.0	6.2	11.4
Coal	5.5	5.6	5.7	5.3	5.3	5.2	4.0	3.7	2.7	2.7	5.0
Nuclear	8.2	8.9	9.2	8.8	8.7	8.7	8.7	8.7	8.4	8.0	14.6
Hydro	32.7	33.7	32.9	32.9	33.2	33.9	33.2	32.7	33.1	32.6	59.9
Biomass	0.8	0.9	0.8	0.8	0.8	1.0	0.9	1.0	0.9	0.9	1.7
Wind	1.0	1.6	1.9	2.3	2.7	2.7	2.9	2.8	3.1	3.1	5.7
Solar	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.7
Other renewables	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	192.9	194.6	195.6	195.1	195.1	198.8	204.7	202.8	184.4	187.2	100.0
Industry	45.2	45.5	46.2	45.9	46.3	46.9	47.4	47.5	44.2	45.3	24.2
Transport	60.0	61.5	60.6	60.4	60.6	62.9	65.0	65.2	55.6	57.1	30.5
Residential/Commercial	56.4	58.4	60.5	59.1	57.6	60.5	63.6	63.5	62.3	61.7	33.0
Oil final consumption, by sector	92.7	91.3	89.7	91.1	92.3	92.3	94.8	93.2	79.6	81.6	100.0
Industry	4.6	4.4	4.1	4.7	4.8	5.3	5.2	5.4	5.0	5.0	6.1
Transport	58.2	59.5	58.5	58.3	58.5	60.6	62.6	62.8	53.3	54.8	67.2
Residential/Commercial	4.1	3.7	3.6	3.5	3.3	3.1	3.0	3.0	2.8	2.9	3.5
Natural gas final consumption, by sector	42.2	44.2	45.4	44.6	45.3	47.1	49.5	49.1	46.5	47.1	100.0
Industry	14.3	14.9	14.9	14.5	16.3	15.8	16.1	16.0	15.1	16.2	34.4
Transport	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	23.6	25.3	27.0	25.8	24.9	27.0	29.5	29.5	28.4	27.5	58.5
Refined products consumption	92.7	91.3	89.7	91.1	92.3	92.3	94.8	93.2	79.6	81.6	100.0
Gasoline	33.9	34.8	34.2	34.9	36.2	36.2	37.4	37.2	32.6	33.9	41.5
Diesel	27.1	27.3	27.1	27.0	25.4	27.5	28.1	27.9	26.6	26.8	32.8
Heating Oil	2.2	1.8	1.7	1.5	1.4	1.2	1.2	1.2	0.9	0.7	0.9
Aviation Jet	5.0	5.4	5.3	5.4	5.8	6.3	6.8	6.9	3.0	3.2	4.0
LPG	3.6	3.1	2.8	2.7	2.8	3.0	2.9	3.0	2.8	2.9	3.5
Imports	84.1	78.8	74.5	80.1	84.1	78.2	76.7	80.5	62.9	65.3	100.0
Oil	58.0	56.5	56.2	63.5	65.3	56.9	57.1	58.5	43.1	43.9	67.2
Gas	26.1	22.3	18.4	16.6	18.8	21.3	19.5	22.0	19.9	21.4	32.8
Gasoline	3.1	2.6	2.6	3.1	4.0	3.7	4.3	3.9	2.8	3.2	4.9
Diesel	0.7	1.2	1.5	1.9	2.1	1.1	2.2	1.2	0.8	1.1	1.6
Heating Oil	0.7	1.1	1.0	0.6	0.7	0.8	0.6	0.7	0.5	0.3	0.5
Aviation Jet	2.5	2.4	2.6	3.0	2.8	2.5	3.1	3.4	1.2	1.0	1.5
LPG	0.2	0.1	0.2	0.1	0.3	0.3	0.2	0.4	0.4	0.4	0.7
Exports	225.1	234.1	240.4	250.9	263.6	274.7	286.0	292.0	276.5	290.8	100.0
Oil	151.6	165.0	174.6	185.2	192.5	202.9	218.7	227.4	216.6	223.8	77.0
Gas	73.5	69.1	65.8	65.7	71.0	71.8	67.3	64.6	59.9	67.0	23.0
Gasoline	6.3	6.6	6.5	7.7	7.8	8.7	7.0	8.1	6.1	6.0	2.1
Diesel	8.0	8.1	6.5	6.9	6.8	8.2	6.5	7.8	7.6	7.5	2.6
Heating Oil	3.7	4.4	3.5	3.0	2.9	2.8	3.6	1.8	0.8	1.3	0.4
Aviation Jet	0.4	0.5	0.4	0.5	0.5	1.2	1.2	1.1	0.4	0.4	0.1
LPG	0.5	0.6	0.7	0.4	0.2	0.2	0.1	0.2	0.1	0.2	0.1
CO₂ Emissions (Million tons CO₂)	559.9	567.8	569.8	569.9	566.9	576.3	589.3	589.2	527.7	546.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	372.0	368.7	359.6	357.4	351.9	347.2	345.5	339.0	320.4	317.2	-
Final energy intensity (toe/million \$15ppp)	111.4	111.5	109.8	108.0	106.4	106.8	107.4	105.4	102.4	99.1	-
Total energy intensity (toe/million \$15ppp)	179.0	178.5	178.0	175.7	182.0	182.6	180.1	176.3	171.2	167.7	-

*Heat is included

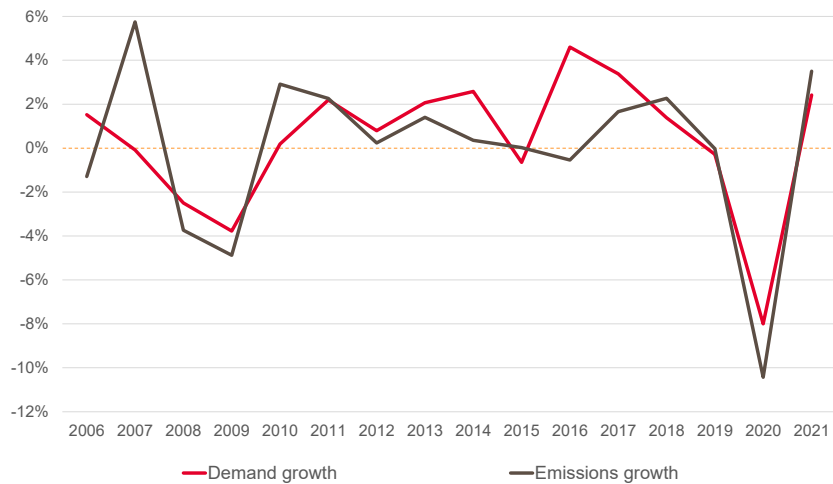
Primary energy demand mix



Electricity generation by source



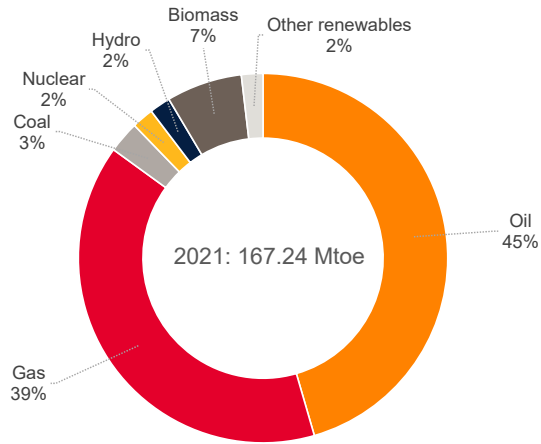
Primary energy demand and CO₂ emissions growth



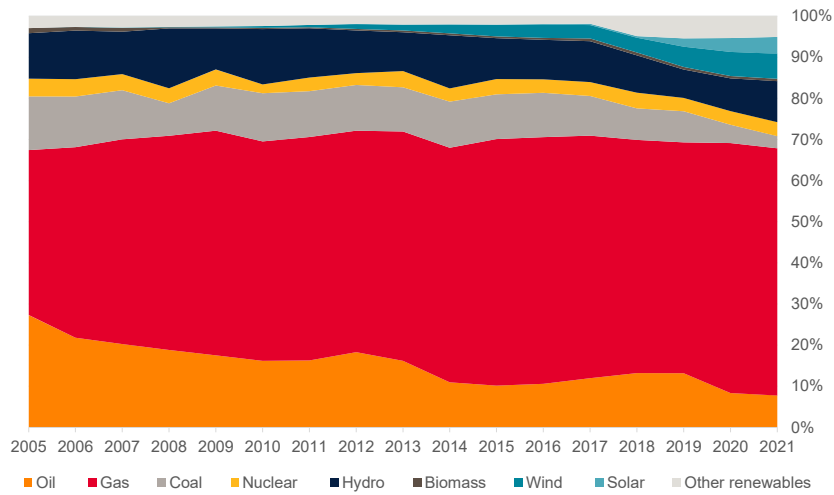
Mexico (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	191.8	192.1	188.4	185.0	184.9	180.7	186.8	184.9	166.7	167.2	100.0
Oil	102.6	98.9	96.8	90.4	88.0	85.9	81.6	84.5	75.1	74.2	44.4
Gas	59.3	62.2	60.5	64.7	66.2	62.6	72.5	68.7	63.6	64.3	38.5
Coal	12.7	12.9	12.7	11.4	12.4	12.7	12.3	11.8	5.2	4.5	2.7
Nuclear	2.3	3.1	2.5	3.0	2.8	2.8	3.6	2.9	2.9	3.1	1.9
Hydro	2.7	2.4	3.3	2.7	2.6	2.8	2.8	2.0	2.3	3.0	1.8
Biomass	8.4	9.0	8.7	8.6	8.7	9.7	8.6	8.7	10.4	10.8	6.5
Other renewables	0.3	0.4	0.6	0.8	0.9	1.0	1.2	2.1	2.7	3.1	1.8
Electricity balance of trade*	3.4	3.3	3.2	3.4	3.4	3.3	4.2	4.2	4.5	4.2	2.5
Total final consumption, by source	120.4	120.9	120.1	121.1	123.4	124.5	116.8	116.4	108.6	111.2	100.0
Oil	73.3	72.3	73.1	72.7	75.2	73.0	70.4	69.2	63.1	63.9	57.5
Gas	14.7	15.5	14.8	14.5	15.1	16.0	13.0	13.0	11.3	11.6	10.5
Coal	3.8	4.6	3.4	4.6	2.6	4.2	3.2	3.1	1.1	1.5	1.4
Electricity	21.3	20.8	21.7	22.1	23.3	23.4	23.5	24.1	23.9	24.6	22.2
Heat	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4
Biomass	7.1	7.6	7.0	6.9	6.9	7.8	6.4	6.7	8.7	9.0	8.1
Electricity generation, by source	26.4	25.6	25.9	26.7	27.6	27.7	30.8	29.6	29.1	30.1	100.0
Oil	4.8	4.1	2.8	2.7	2.9	3.3	4.1	3.9	2.4	2.3	7.8
Gas	14.2	14.3	14.8	16.0	16.5	16.3	17.4	16.6	17.7	18.1	60.1
Coal	2.9	2.7	2.9	2.9	3.0	2.7	2.3	2.2	1.3	0.9	3.0
Nuclear	0.8	1.0	0.8	1.0	0.9	0.9	1.2	1.0	1.0	1.0	3.4
Hydro	2.7	2.4	3.3	2.7	2.6	2.8	2.8	2.0	2.3	3.0	10.0
Biomass	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.6
Wind	0.3	0.4	0.6	0.8	0.9	0.9	1.1	1.5	1.7	1.8	6.1
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6	1.0	1.2	4.1
Other renewables	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.6	1.6	1.5	5.1
Total final consumption, by sector	120.4	120.9	120.1	121.1	123.4	124.5	116.8	116.4	108.6	111.2	100.0
Industry	36.2	37.3	35.1	36.6	36.6	39.4	34.3	34.9	32.2	35.0	31.5
Transport	51.7	51.1	51.3	51.1	52.9	51.4	50.1	50.0	43.5	43.3	38.9
Residential/Commercial	23.0	23.0	23.6	24.1	24.3	24.2	23.4	23.1	25.8	26.7	24.1
Oil final consumption, by sector	73.3	72.3	73.1	72.7	75.2	73.0	70.4	69.2	63.1	63.9	100.0
Industry	5.9	5.8	5.7	6.2	7.0	6.4	5.5	5.4	6.0	7.7	12.0
Transport	51.6	51.0	51.2	51.0	52.8	51.3	49.9	49.9	43.4	43.2	67.5
Residential/Commercial	8.1	7.7	7.7	7.6	7.4	7.3	7.3	6.9	8.6	9.0	14.0
Natural gas final consumption, by sector	14.7	15.5	14.8	14.5	15.1	16.0	13.0	13.0	11.3	11.6	100.0
Industry	13.0	13.8	12.9	12.9	13.5	14.5	11.6	11.7	9.7	10.1	86.5
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4
Residential/Commercial	1.0	1.0	1.1	1.1	1.0	1.0	1.0	0.9	0.8	0.8	7.1
Refined products consumption	73.3	72.3	73.1	72.7	75.2	73.0	70.4	69.2	63.1	63.9	100.0
Gasoline	35.9	35.2	34.7	35.4	36.8	35.6	34.9	34.8	27.7	27.8	43.5
Diesel	19.6	19.0	19.5	19.0	19.6	18.6	18.0	17.6	17.7	17.1	26.8
Heating Oil	1.2	0.6	0.5	0.5	0.8	0.7	0.2	0.3	0.3	0.3	0.5
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	9.8	10.1	10.1	9.9	9.9	9.9	9.9	9.0	11.6	12.1	18.9
Imports	51.7	51.2	54.1	65.2	78.6	87.0	100.4	96.3	79.5	84.1	100.0
Oil	32.8	29.2	30.5	35.1	43.1	51.3	56.2	55.3	44.4	47.5	56.5
Gas	18.9	22.0	23.6	30.2	35.6	35.7	44.2	41.0	35.1	36.6	43.5
Gasoline	17.3	15.5	16.1	18.6	22.0	23.2	25.7	26.1	20.6	22.0	26.2
Diesel	6.7	5.4	6.7	7.4	9.5	12.9	14.0	12.4	9.4	9.7	11.5
Heating Oil	2.4	1.7	0.7	0.9	1.4	2.2	2.2	2.3	0.4	0.0	0.0
Aviation Jet	0.2	0.2	0.6	1.1	1.6	2.1	2.7	2.8	1.1	1.9	2.2
LPG	3.3	3.0	3.3	3.9	5.1	6.3	7.0	7.9	9.6	10.6	12.6
Exports	78.7	76.3	74.1	72.0	75.1	73.0	73.3	67.6	70.2	66.4	100.0
Oil	78.7	76.3	74.0	72.0	75.1	73.0	73.3	67.6	70.2	66.4	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.1	0.5	0.1	0.3	0.8	0.2	0.2	0.6	0.8	0.3	0.4
Heating Oil	3.8	5.2	7.0	6.8	6.2	5.7	5.3	3.8	6.0	8.6	13.0
Aviation Jet	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	467.0	458.5	443.6	451.3	457.3	456.3	434.2	428.6	364.4	377.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	225.5	218.4	205.5	202.4	199.8	195.2	181.8	179.8	166.7	164.5	-
Final energy intensity (toe/million \$15ppp)	55.5	54.9	52.7	51.9	51.5	51.0	47.0	47.0	48.3	47.6	-
Total energy intensity (toe/million \$15ppp)	92.6	91.5	87.3	82.9	80.8	77.3	78.2	77.6	76.2	73.0	-

*Heat is included

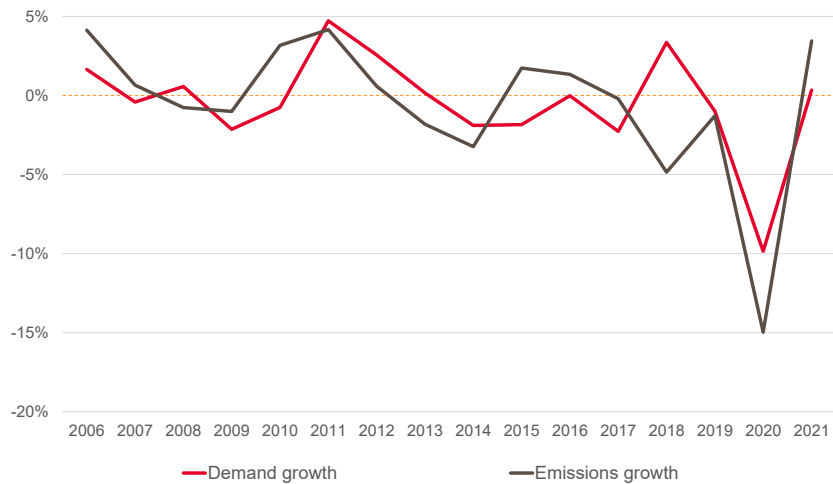
Primary energy demand mix



Electricity generation by source



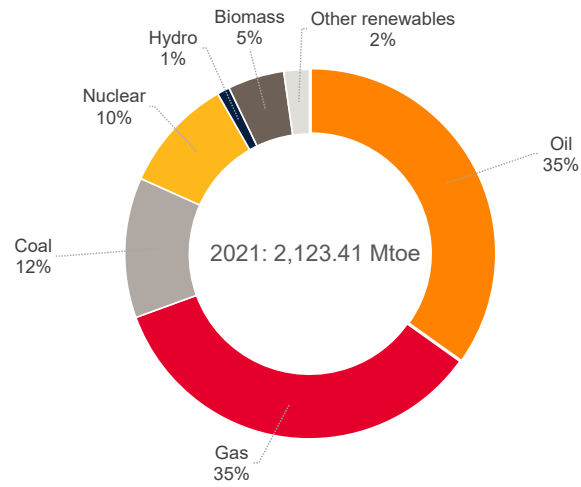
Primary energy demand and CO₂ emissions growth



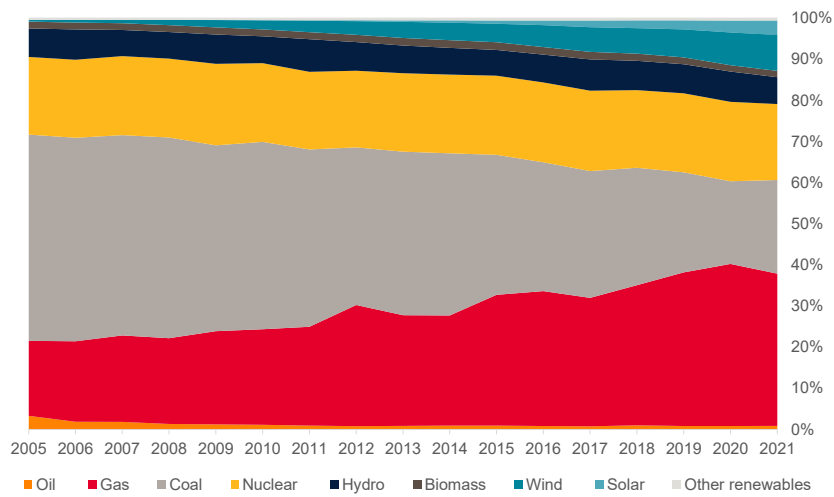
United States (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	2,151.7	2,190.5	2,217.1	2,193.0	2,169.3	2,161.8	2,222.3	2,219.7	2,028.8	2,123.4	100.0
Oil	775.5	777.6	777.2	793.4	788.5	794.6	805.9	797.5	676.4	733.7	34.6
Gas	594.9	606.6	627.6	646.6	652.8	643.9	693.7	742.3	728.0	728.0	34.3
Coal	423.6	432.1	431.7	374.1	341.5	330.7	320.6	275.0	225.5	258.2	12.2
Nuclear	208.8	214.2	216.5	216.4	218.9	218.6	219.3	219.8	214.5	211.3	10.0
Hydro	24.0	23.3	22.5	21.6	23.2	26.0	25.4	24.9	25.2	23.0	1.1
Biomass	95.6	102.7	105.5	101.5	101.1	101.4	107.6	108.6	100.0	104.1	4.9
Other renewables	13.2	16.1	18.5	20.3	24.7	28.8	31.7	34.6	40.6	46.8	2.2
Electricity balance of trade*	16.1	17.8	17.7	19.1	18.7	17.7	18.1	16.9	18.6	18.3	0.9
Total final consumption, by source	1,435.0	1,480.9	1,503.5	1,497.5	1,503.1	1,507.5	1,566.2	1,569.7	1,419.5	1,487.6	100.0
Oil	709.1	720.1	724.9	741.9	744.4	747.6	763.7	763.8	653.9	704.0	47.3
Gas	295.1	320.4	335.5	319.6	320.6	328.0	350.1	359.8	341.2	346.9	23.3
Coal	27.3	27.1	26.9	23.7	21.2	20.6	20.7	19.2	16.9	18.6	1.2
Electricity	320.5	323.9	325.9	325.2	328.0	323.0	335.5	329.4	316.8	323.4	21.7
Heat	8.8	8.3	8.1	8.0	8.9	8.0	9.8	9.1	9.2	9.4	0.6
Biomass	74.2	81.2	82.3	79.1	79.9	80.2	86.5	88.4	81.5	85.4	5.7
Electricity generation, by source	369.0	370.3	373.3	371.3	371.7	368.6	383.2	377.7	366.8	376.7	100.0
Oil	2.8	3.2	3.4	3.3	3.0	2.8	3.7	3.1	2.9	3.1	0.8
Gas	108.8	99.6	99.9	118.0	122.0	115.0	130.7	141.0	144.7	139.5	37.0
Coal	141.3	147.3	147.3	126.5	116.4	113.6	109.4	92.0	73.8	85.7	22.7
Nuclear	68.9	70.7	71.4	71.4	72.2	72.1	72.4	72.5	70.8	69.7	18.5
Hydro	25.7	24.9	24.2	23.3	25.1	28.0	27.3	26.7	27.0	24.6	6.5
Biomass	6.5	6.7	7.0	6.9	6.8	6.8	6.7	6.3	5.7	5.7	1.5
Wind	12.2	14.6	15.8	16.6	19.7	22.1	23.7	25.6	29.3	32.9	8.7
Solar	0.9	1.4	2.2	3.1	4.3	6.1	7.3	8.4	10.6	13.3	3.5
Other renewables	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.2	2.2	0.6
Total final consumption, by sector	1,435.0	1,480.9	1,503.5	1,497.5	1,503.1	1,507.5	1,566.2	1,569.7	1,419.5	1,487.6	100.0
Industry	272.9	271.3	271.3	269.7	272.4	267.7	278.4	277.4	265.2	272.4	18.3
Transport	560.8	578.6	579.0	600.1	607.0	611.7	621.2	618.4	529.6	577.1	38.8
Residential/Commercial	447.4	482.6	495.2	476.0	470.5	466.1	500.8	500.9	472.1	480.0	32.3
Oil final consumption, by sector	709.1	720.1	724.9	741.9	744.4	747.6	763.7	763.8	653.9	704.0	100.0
Industry	19.8	20.1	17.5	19.2	19.9	18.1	19.4	16.7	16.1	16.1	2.3
Transport	527.5	542.0	542.1	562.5	566.6	570.2	580.3	577.2	492.6	537.8	76.4
Residential/Commercial	24.0	26.0	24.2	26.4	26.0	24.1	24.5	23.9	20.9	21.7	3.1
Natural gas final consumption, by sector	295.1	320.4	335.5	319.6	320.6	328.0	350.1	359.8	341.2	346.9	100.0
Industry	117.1	115.5	120.6	121.0	125.1	124.1	129.6	132.9	130.3	133.3	38.4
Transport	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.4	1.5	0.4
Residential/Commercial	162.4	188.9	198.1	189.9	174.5	177.3	194.3	200.5	183.2	184.8	53.3
Refined products consumption	707.0	717.6	722.4	737.6	741.4	743.2	758.1	755.3	647.0	697.1	100.0
Gasoline	359.6	364.8	367.4	377.9	383.3	380.8	381.7	380.1	328.0	358.0	51.4
Diesel	176.7	176.9	183.7	179.5	176.5	179.0	185.5	181.3	166.9	173.5	24.9
Heating Oil	3.3	1.0	0.3	2.9	1.8	1.8	1.9	0.9	0.7	1.1	0.2
Aviation Jet	48.1	49.2	50.4	52.8	54.8	57.9	58.8	59.8	37.0	46.9	6.7
LPG	33.3	38.9	35.6	37.3	35.7	33.3	36.9	38.1	23.0	23.4	3.4
Imports	623.4	567.4	534.7	546.0	581.5	586.8	575.0	528.8	462.4	492.3	100.0
Oil	550.7	500.6	472.4	483.1	511.9	516.4	508.2	465.4	401.2	425.0	86.3
Gas	72.7	66.7	62.3	62.9	69.5	70.4	66.8	63.4	61.2	67.3	13.7
Gasoline	32.8	32.2	30.0	33.3	34.6	31.3	33.4	38.4	28.4	29.1	5.9
Diesel	6.9	8.9	10.6	11.2	8.4	8.8	10.1	11.1	11.9	15.7	3.2
Heating Oil	16.2	13.6	11.2	11.7	11.6	11.3	12.6	9.4	11.4	12.7	2.6
Aviation Jet	3.1	4.4	4.9	6.9	7.6	8.3	6.7	8.4	7.7	8.1	1.6
LPG	3.7	4.2	3.7	4.3	5.0	5.6	6.1	6.6	5.0	5.0	1.0
Exports	182.8	195.3	229.5	257.6	290.8	362.7	431.2	498.2	508.5	523.8	100.0
Oil	145.7	159.2	194.8	216.9	238.2	288.3	346.5	388.6	381.8	368.8	70.4
Gas	37.1	36.1	34.7	40.7	52.7	74.4	84.8	109.6	126.7	155.0	29.6
Gasoline	23.3	23.2	25.3	28.3	35.3	38.1	43.4	41.5	36.7	41.8	8.0
Diesel	50.1	56.3	54.9	58.5	58.7	68.5	64.2	65.5	60.2	55.2	10.5
Heating Oil	20.7	19.4	20.1	17.5	16.3	16.8	19.2	12.4	6.2	4.0	0.8
Aviation Jet	6.6	7.8	8.1	8.3	8.7	9.2	11.1	11.2	4.8	5.3	1.0
LPG	0.0	0.0	17.0	24.4	31.0	35.6	39.6	47.0	53.8	55.8	10.6
CO₂ Emissions (Million tons CO₂)	5,048.9	5,152.7	5,193.8	5,047.3	4,954.6	4,891.1	5,001.5	4,891.9	4,361.3	4,631.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	297.9	298.6	293.5	276.7	267.1	257.7	255.8	244.9	226.0	227.2	-
Final energy intensity (toe/million \$15ppp)	76.6	78.3	77.0	74.7	73.7	71.8	72.5	70.7	66.4	65.9	-
Total energy intensity (toe/million \$15ppp)	127.0	126.9	125.3	120.2	116.9	113.9	113.7	111.1	105.2	104.1	-

*Heat is included

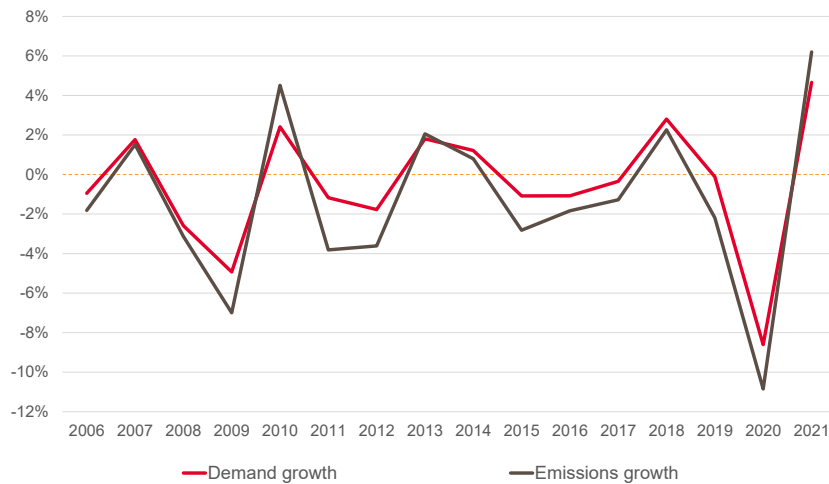
Primary energy demand mix



Electricity generation by source



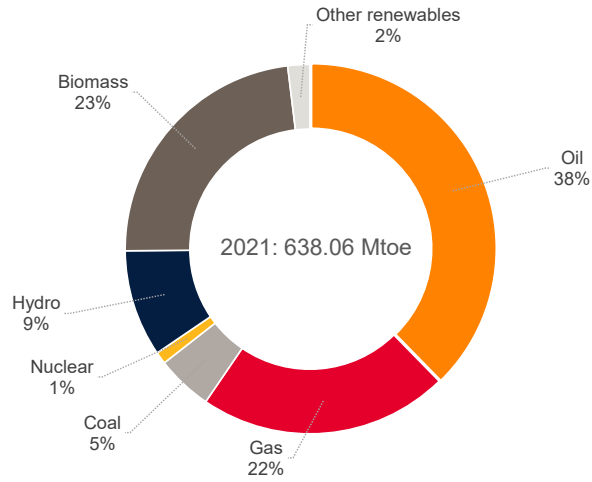
Primary energy demand and CO₂ emissions growth



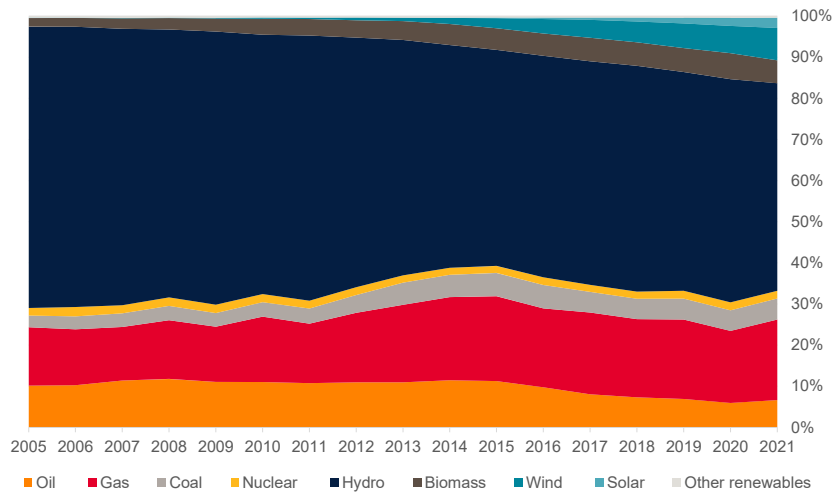
South and Central America											
<i>(Million toe)</i>	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	633.5	666.5	667.5	665.3	654.3	655.4	636.5	643.8	597.9	638.1	100.0
Oil	276.0	293.3	290.8	282.3	274.2	271.0	250.6	252.7	221.2	239.4	37.5
Gas	134.3	140.8	145.9	145.8	140.4	141.6	137.6	137.6	123.4	139.0	21.8
Coal	27.8	31.5	32.6	33.6	32.3	31.7	31.0	32.4	29.1	31.3	4.9
Nuclear	5.8	5.6	5.4	5.7	6.3	5.7	5.9	6.4	6.5	6.7	1.0
Hydro	62.0	60.8	57.3	57.4	58.9	59.8	61.3	59.6	59.5	59.5	9.3
Biomass	123.1	129.4	129.7	133.5	133.7	135.6	138.7	141.8	143.6	147.6	23.1
Other renewables	0.7	0.9	1.6	2.9	4.2	5.4	6.7	8.3	9.4	12.2	1.9
Electricity balance of trade*	3.8	4.1	4.1	4.2	4.4	4.5	4.7	5.0	5.4	2.5	0.4
Total final consumption, by source	479.0	492.3	492.1	486.7	483.2	486.1	482.5	483.8	455.2	476.0	100.0
Oil	227.5	232.6	233.0	223.9	223.8	224.9	218.1	220.3	197.2	207.9	43.7
Gas	61.1	61.3	60.1	60.2	57.9	57.1	58.0	56.2	51.2	52.5	11.0
Coal	16.0	16.5	16.7	16.4	14.6	16.1	16.5	14.9	14.3	14.8	3.1
Electricity	82.2	86.0	86.3	87.8	87.8	88.2	89.5	90.0	88.1	92.4	19.4
Heat	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.1	0.2
Biomass	91.7	95.4	95.3	97.7	98.2	98.9	99.5	101.4	103.3	107.3	22.5
Electricity generation, by source	102.3	106.3	105.8	109.3	109.5	110.1	111.7	112.1	109.6	117.9	100.0
Oil	11.2	11.6	12.1	12.3	10.7	8.9	8.2	7.7	6.5	7.8	6.6
Gas	17.3	20.0	21.4	22.6	21.0	21.9	21.2	21.7	19.2	23.1	19.6
Coal	4.4	5.7	5.7	6.2	6.2	5.5	5.5	5.7	5.5	6.0	5.1
Nuclear	1.9	1.9	1.8	1.9	2.1	1.9	1.9	2.1	2.1	2.2	1.9
Hydro	62.1	60.8	57.3	57.4	58.9	59.8	61.3	59.6	59.5	59.5	50.5
Biomass	4.3	4.9	5.4	5.7	6.0	6.3	6.4	6.5	6.9	6.6	5.6
Wind	0.7	0.9	1.6	2.7	3.8	4.8	5.6	6.7	7.3	9.3	7.9
Solar	0.0	0.0	0.1	0.2	0.4	0.6	1.1	1.6	2.2	2.9	2.5
Other renewables	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total final consumption, by sector	479.0	492.3	492.1	486.7	483.2	486.1	482.5	483.8	455.2	476.0	100.0
Industry	155.8	158.4	154.9	148.9	145.8	147.6	144.7	140.0	139.8	149.8	31.5
Transport	161.8	168.3	171.6	171.8	170.5	172.3	172.6	176.5	155.3	162.4	34.1
Residential/Commercial	105.5	109.6	109.6	111.2	112.2	111.5	113.7	113.0	110.8	113.9	23.9
Oil final consumption, by sector	227.5	232.6	233.0	223.9	223.8	224.9	218.1	220.3	197.2	207.9	100.0
Industry	30.4	31.2	30.1	26.8	25.4	25.2	24.5	24.2	22.3	23.9	11.5
Transport	141.6	145.6	147.1	144.1	144.4	145.9	143.2	144.8	127.5	135.6	65.2
Residential/Commercial	17.5	17.9	17.8	17.4	17.9	17.9	18.2	17.7	17.2	17.7	8.5
Natural gas final consumption, by sector	61.1	61.3	60.1	60.2	57.9	57.1	58.0	56.2	51.2	52.5	100.0
Industry	29.5	29.1	28.3	27.4	25.5	25.6	25.9	23.6	21.7	22.2	42.3
Transport	5.6	5.7	5.9	5.9	5.8	5.7	5.8	6.0	4.8	5.6	10.7
Residential/Commercial	14.3	14.9	14.7	14.8	15.0	14.3	14.5	14.0	13.8	14.0	26.6
Refined products consumption	227.2	232.3	232.6	223.6	223.5	224.6	217.9	220.1	197.0	207.8	100.0
Gasoline	64.2	64.8	66.1	64.9	66.0	67.5	63.7	63.9	53.8	59.5	28.6
Diesel	90.0	95.2	95.8	93.3	92.4	92.8	93.6	94.4	88.9	91.5	44.0
Heating Oil	13.0	12.9	10.7	8.6	8.2	7.7	7.0	6.3	6.1	5.4	2.6
Aviation Jet	5.8	5.8	5.8	5.9	5.3	5.3	5.6	5.6	2.9	3.3	1.6
LPG	21.0	21.8	21.9	21.1	21.9	21.4	20.4	20.3	19.8	20.5	9.9
Imports	174.9	187.8	187.3	181.2	174.4	175.1	170.4	163.5	140.0	164.2	100.0
Oil	150.0	157.5	155.3	151.0	150.3	151.4	148.0	143.0	118.8	135.2	82.4
Gas	24.9	30.2	32.0	30.2	24.1	23.7	22.5	20.5	21.1	28.9	17.6
Gasoline	14.3	13.8	14.2	15.9	18.0	20.7	19.0	21.2	18.8	18.7	11.4
Diesel	35.8	41.2	40.7	37.5	41.8	43.2	42.4	43.1	39.7	44.6	27.2
Heating Oil	13.9	12.9	12.6	12.4	12.8	12.7	11.8	11.8	8.4	3.8	2.3
Aviation Jet	4.3	4.3	4.4	4.9	4.5	4.9	5.0	5.3	1.9	2.7	1.6
LPG	6.3	7.2	7.6	6.9	7.5	7.9	8.6	8.9	9.0	10.2	6.2
Exports	300.3	293.1	299.7	299.3	285.3	275.4	259.2	230.7	228.0	215.3	100.0
Oil	264.8	254.7	262.7	265.0	253.4	244.1	227.6	200.6	199.8	191.3	88.8
Gas	35.5	38.4	37.0	34.3	31.9	31.3	31.6	30.1	28.2	24.0	11.2
Gasoline	6.6	7.4	6.3	8.1	7.7	5.9	5.8	4.4	4.6	4.1	1.9
Diesel	7.0	5.0	5.3	4.3	5.0	3.9	4.4	2.9	4.1	3.2	1.5
Heating Oil	30.3	28.8	28.0	26.6	25.1	23.7	24.0	16.8	19.1	17.0	7.9
Aviation Jet	5.2	4.7	5.1	4.7	3.3	2.7	2.1	1.5	0.8	0.6	0.3
LPG	2.4	2.7	2.4	2.4	2.2	2.4	2.5	2.5	2.3	2.1	1.0
CO₂ Emissions (Million tons CO₂)	1,171.6	1,222.7	1,244.5	1,228.6	1,191.2	1,173.9	1,146.2	1,137.8	1,015.7	1,082.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	168.8	170.4	172.1	170.8	168.8	164.9	159.9	159.1	152.6	151.9	-
Final energy intensity (toe/million \$15ppp)	69.0	68.6	68.1	67.6	68.5	68.3	67.3	67.7	68.4	66.8	-
Total energy intensity (toe/million \$15ppp)	91.3	92.9	92.3	92.5	92.7	92.0	88.8	90.0	89.9	89.6	-

*Heat is included

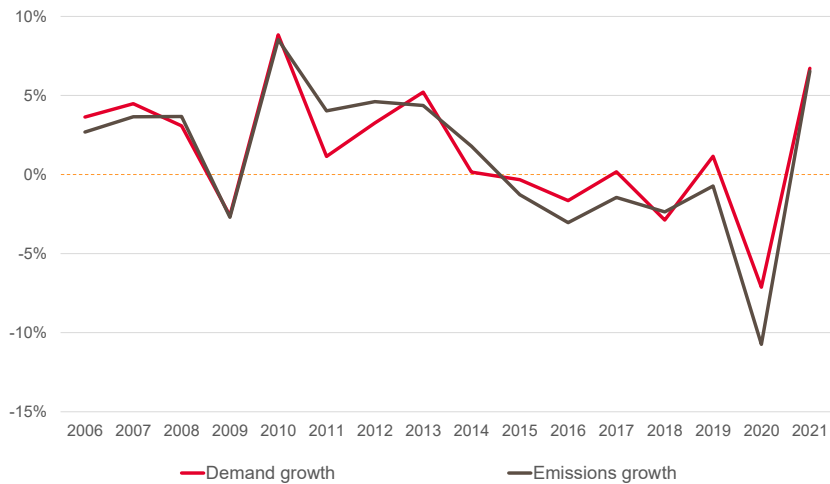
Primary energy demand mix



Electricity generation by source



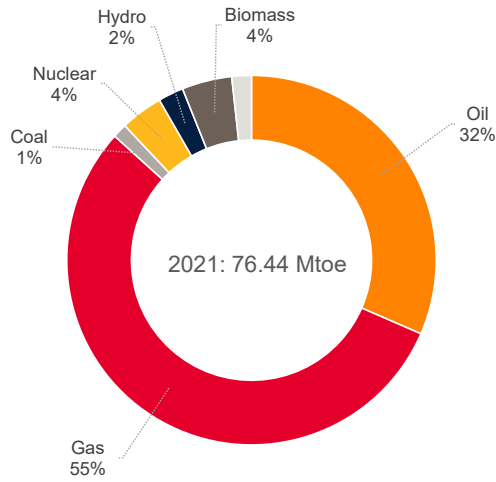
Primary energy demand and CO₂ emissions growth



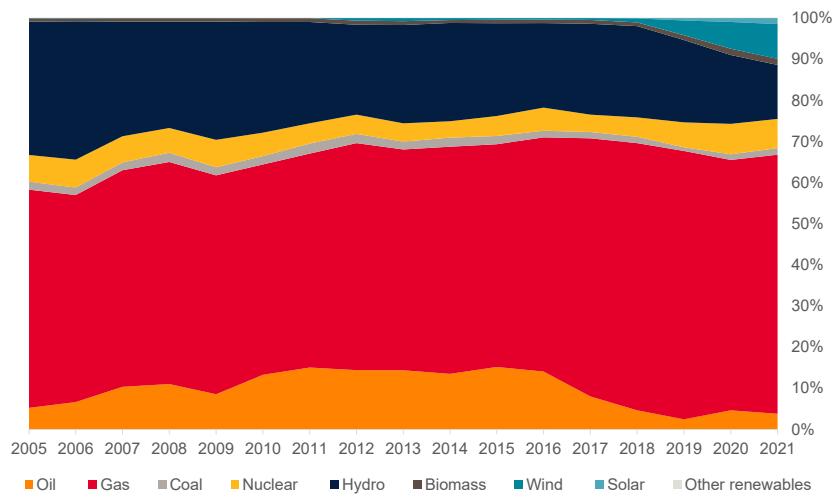
Argentina (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	79.4	81.4	81.5	82.8	82.3	82.3	80.0	79.4	74.0	76.4	100.0
Oil	28.8	30.0	29.8	29.7	28.9	27.7	26.0	26.0	23.6	24.1	31.5
Gas	41.6	41.9	42.0	42.9	43.4	44.3	43.5	42.7	40.0	42.1	55.1
Coal	1.2	1.2	1.5	1.4	1.1	1.2	1.3	0.7	0.9	1.0	1.3
Nuclear	1.7	1.6	1.4	1.8	2.2	1.6	1.8	2.2	2.8	2.8	3.7
Hydro	2.5	2.8	2.8	2.8	2.6	2.7	2.8	2.4	2.1	1.7	2.2
Biomass	2.9	3.0	3.1	3.3	3.4	3.8	3.7	3.9	3.3	3.3	4.4
Other renewables	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.5	0.9	1.3	1.7
Electricity balance of trade*	0.7	0.7	0.8	0.8	0.8	0.9	0.8	0.9	0.4	0.1	0.2
Total final consumption, by source	54.3	57.0	56.5	57.5	56.9	56.6	56.9	56.1	50.8	52.2	100.0
Oil	21.5	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.7	19.3	36.9
Gas	19.6	20.7	20.6	21.1	20.7	19.4	19.6	19.5	18.7	18.9	36.3
Coal	1.0	1.0	1.1	1.0	0.8	0.9	1.0	0.7	0.7	0.7	1.4
Electricity	10.2	10.4	10.9	11.4	11.3	11.1	11.1	10.8	10.7	11.3	21.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	2.1	2.2	2.5	2.5	2.6	2.9	3.0	3.0	2.0	2.0	3.8
Electricity generation, by source	11.7	12.0	11.9	12.5	12.7	12.5	12.6	12.0	12.5	13.2	100.0
Oil	1.7	1.7	1.6	1.9	1.8	1.0	0.6	0.3	0.6	0.5	3.8
Gas	6.5	6.4	6.6	6.8	7.2	7.9	8.2	7.8	7.6	8.3	63.0
Coal	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	1.6
Nuclear	0.5	0.5	0.5	0.6	0.7	0.5	0.6	0.7	0.9	0.9	7.1
Hydro	2.6	2.9	2.9	2.8	2.6	2.8	2.8	2.4	2.1	1.7	13.1
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	1.5
Wind	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.4	0.8	1.1	8.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	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	54.3	57.0	56.5	57.5	56.9	56.6	56.9	56.1	50.8	52.2	100.0
Industry	12.7	13.2	13.7	13.9	13.0	12.8	13.6	13.7	13.5	13.5	25.8
Transport	15.5	16.6	15.7	16.5	16.4	16.9	17.3	17.2	13.4	14.8	28.4
Residential/Commercial	18.5	19.4	19.2	19.6	20.0	18.9	18.7	18.0	17.7	18.1	34.6
Oil final consumption, by sector	21.5	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.7	19.3	100.0
Industry	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.7	3.6
Transport	12.2	13.2	12.1	12.7	12.6	13.2	13.8	13.6	11.0	12.0	62.2
Residential/Commercial	1.8	1.9	1.8	1.8	1.7	1.6	1.5	1.6	1.5	1.4	7.5
Natural gas final consumption, by sector	19.6	20.7	20.6	21.1	20.7	19.4	19.6	19.5	18.7	18.9	100.0
Industry	5.8	6.5	6.7	7.0	6.5	6.1	6.6	7.1	6.9	6.6	34.9
Transport	2.3	2.3	2.4	2.5	2.3	2.1	2.0	2.0	1.6	1.9	10.3
Residential/Commercial	10.6	11.0	10.7	10.8	11.0	10.3	10.2	9.7	9.6	9.8	51.6
Refined products consumption	21.5	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.7	19.3	100.0
Gasoline	5.4	5.6	5.2	5.6	5.7	6.1	6.4	6.2	4.5	5.8	30.1
Diesel	9.9	11.2	10.0	10.3	10.2	10.4	10.3	10.2	9.2	8.9	46.2
Heating Oil	0.4	0.4	0.4	0.4	0.2	0.1	0.1	0.4	0.8	0.4	2.3
Aviation Jet	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.2	0.1	0.8
LPG	2.1	2.2	2.0	1.9	1.9	1.8	1.7	1.7	1.5	1.5	8.0
Imports	12.1	15.3	15.3	14.0	14.1	14.5	12.7	8.7	7.8	9.8	100.0
Oil	4.5	5.9	4.9	4.5	5.0	4.9	4.6	3.0	1.7	2.3	23.3
Gas	7.5	9.5	10.4	9.6	9.1	9.5	8.2	5.7	6.0	7.6	76.7
Gasoline	0.0	0.3	0.3	0.0	0.2	0.3	0.5	0.4	0.1	0.2	1.7
Diesel	2.7	4.3	3.2	3.3	3.6	3.1	2.7	2.0	1.4	1.6	15.8
Heating Oil	1.2	0.6	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.2
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	6.0	4.6	4.5	4.1	4.6	3.9	6.5	7.1	7.5	6.0	100.0
Oil	5.9	4.6	4.4	4.0	4.5	3.9	6.2	6.9	7.3	5.9	97.9
Gas	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.2	0.1	2.1
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.7
Diesel	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Heating Oil	0.0	0.2	0.2	0.0	0.0	0.4	0.6	0.8	0.7	0.1	1.5
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	1.0	0.9	1.0	0.9	1.0	1.0	1.2	1.3	1.1	1.0	17.5
CO₂ Emissions (Million tons CO₂)	172.8	177.7	174.1	180.2	179.1	174.8	171.4	163.6	149.5	155.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	204.4	205.2	206.2	207.8	210.9	200.2	201.6	196.4	199.2	187.5	-
Final energy intensity (toe/million \$15ppp)	59.6	61.6	62.0	62.2	62.7	60.2	62.5	63.0	63.7	59.7	-
Total energy intensity (toe/million \$15ppp)	93.9	94.0	96.6	95.4	96.9	94.3	94.1	95.4	98.6	92.4	-

*Heat is included

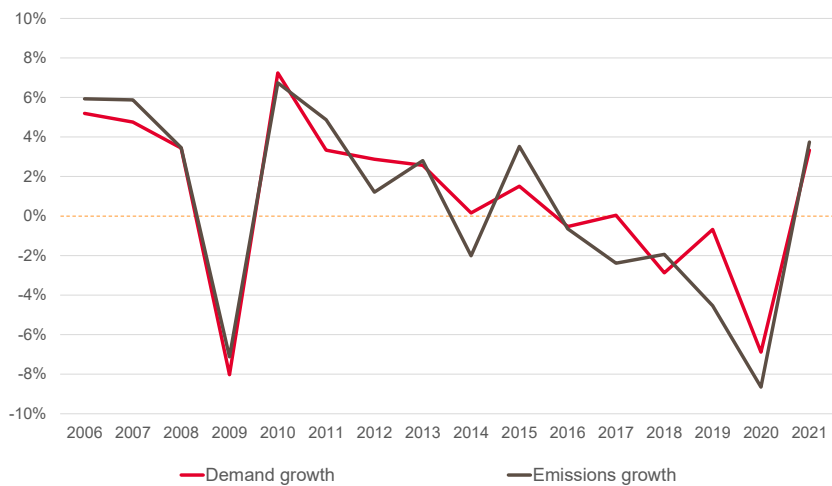
Primary energy demand mix



Electricity generation by source



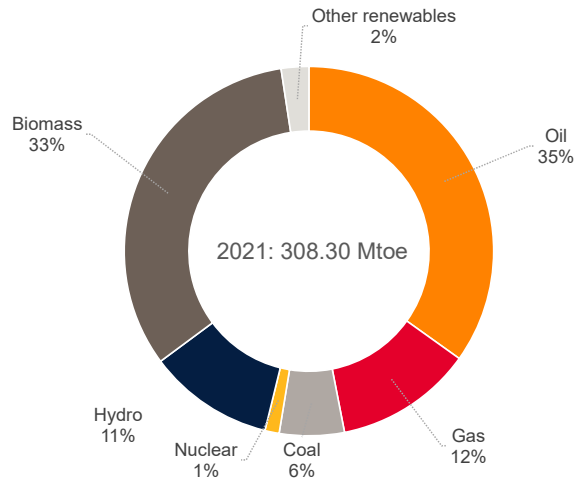
Primary energy demand and CO₂ emissions growth



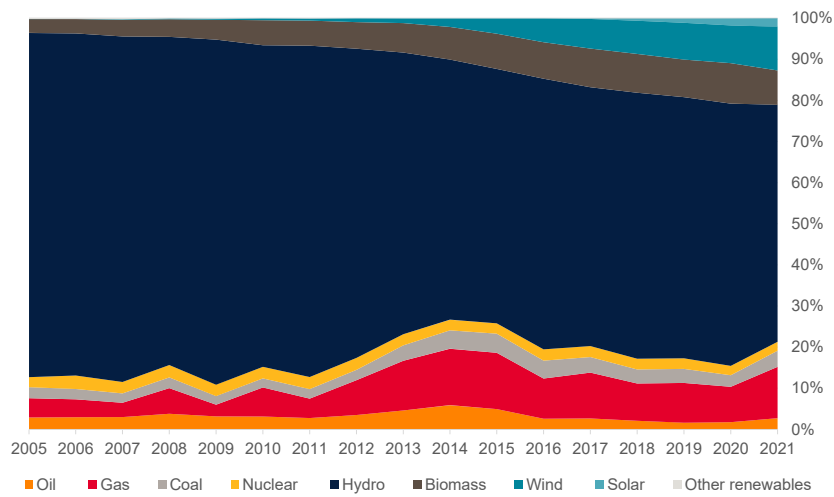
Brazil (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	282.3	295.3	304.6	298.6	287.8	293.4	289.2	294.1	287.6	308.3	100.0
Oil	115.1	120.4	124.4	115.5	109.7	111.0	103.9	105.4	99.5	106.9	34.7
Gas	28.8	33.9	37.4	37.2	31.5	33.4	31.5	31.8	30.1	36.9	12.0
Coal	15.3	16.5	17.5	17.7	15.9	16.8	16.4	15.5	14.0	17.4	5.6
Nuclear	4.2	4.0	4.0	3.8	4.1	4.1	4.1	4.2	3.7	3.8	1.2
Hydro	35.7	33.6	32.1	30.9	32.8	31.9	33.5	34.2	34.1	33.7	10.9
Biomass	78.7	82.2	84.5	87.9	86.5	88.3	91.4	94.4	97.3	100.4	32.6
Other renewables	0.4	0.6	1.1	1.9	2.9	3.7	4.5	5.4	5.8	7.4	2.4
Electricity balance of trade*	4.0	4.1	3.6	3.7	4.4	4.1	4.0	3.2	3.1	1.8	0.6
Total final consumption, by source	229.0	232.9	237.1	232.3	228.3	232.8	228.6	230.5	225.9	239.4	100.0
Oil	105.7	107.7	109.7	102.8	101.5	102.4	96.4	97.9	92.5	98.9	41.3
Gas	13.0	12.8	12.5	12.7	11.7	11.9	12.3	11.2	9.6	10.6	4.4
Coal	11.9	11.5	11.7	11.7	10.3	11.6	11.9	10.9	10.3	11.0	4.6
Electricity	40.6	41.8	43.0	42.2	42.3	42.9	43.6	44.1	43.7	46.1	19.2
Heat	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.0	0.4
Biomass	57.3	58.5	59.6	62.2	61.9	63.2	63.5	65.5	68.8	71.8	30.0
Electricity generation, by source	47.5	49.1	50.8	50.0	49.8	50.7	51.7	53.9	53.4	58.5	100.0
Oil	1.6	2.3	3.0	2.5	1.3	1.3	1.1	0.9	0.9	1.6	2.7
Gas	4.0	5.9	7.0	6.8	4.9	5.6	4.7	5.2	4.6	7.3	12.5
Coal	1.2	1.8	2.3	2.3	2.2	1.9	1.8	1.8	1.5	2.3	3.9
Nuclear	1.4	1.3	1.3	1.3	1.4	1.4	1.3	1.4	1.2	1.3	2.2
Hydro	35.7	33.6	32.1	30.9	32.8	31.9	33.5	34.2	34.1	33.7	57.7
Biomass	3.1	3.5	4.0	4.3	4.4	4.8	4.9	4.9	5.2	4.9	8.4
Wind	0.4	0.6	1.1	1.9	2.9	3.6	4.2	4.8	4.9	6.2	10.6
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.9	1.2	2.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	229.0	232.9	237.1	232.3	228.3	232.8	228.6	230.5	225.9	239.4	100.0
Industry	87.4	86.8	85.7	83.1	82.1	83.7	79.6	77.5	80.4	88.6	37.0
Transport	79.4	83.6	86.7	84.7	82.6	83.5	83.0	85.8	80.2	83.3	34.8
Residential/Commercial	35.7	36.3	38.1	38.3	38.1	38.8	40.1	40.8	40.5	41.9	17.5
Oil final consumption, by sector	105.7	107.7	109.7	102.8	101.5	102.4	96.4	97.9	92.5	98.9	100.0
Industry	12.4	12.6	12.7	11.5	11.0	10.8	9.4	9.9	9.3	10.4	10.6
Transport	65.3	67.4	69.3	64.3	63.9	64.4	60.9	61.4	58.1	62.6	63.3
Residential/Commercial	7.1	7.2	7.3	7.2	7.3	7.3	7.2	7.2	7.4	7.6	7.7
Natural gas final consumption, by sector	13.0	12.8	12.5	12.7	11.7	11.9	12.3	11.2	9.6	10.6	100.0
Industry	9.8	9.7	9.7	9.9	8.9	9.0	9.2	8.3	7.2	7.9	74.2
Transport	1.7	1.6	1.6	1.6	1.6	1.7	1.9	2.0	1.7	1.9	18.0
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	5.5
Refined products consumption	105.7	107.7	109.7	102.8	101.5	102.4	96.4	97.9	92.5	98.9	100.0
Gasoline	24.4	24.4	25.7	23.3	24.2	24.8	21.6	21.5	20.1	22.7	22.9
Diesel	42.7	45.1	45.7	43.6	42.2	42.4	41.9	42.7	42.5	44.3	44.8
Heating Oil	3.6	3.7	3.8	3.0	3.3	2.9	2.3	2.3	2.2	2.5	2.6
Aviation Jet	3.8	3.6	3.7	3.6	3.3	3.3	3.4	3.3	1.9	2.2	2.2
LPG	8.0	8.2	8.4	8.1	8.3	8.3	8.2	8.1	8.4	8.6	8.7
Imports	53.7	58.8	59.9	53.0	40.9	45.1	44.2	45.4	39.9	52.3	100.0
Oil	42.1	43.8	42.9	36.8	30.5	35.7	34.9	36.8	31.4	37.4	71.5
Gas	11.6	14.9	17.0	16.2	10.3	9.4	9.3	8.6	8.5	14.9	28.5
Gasoline	2.9	1.7	1.6	2.3	2.9	3.5	2.5	3.7	3.8	2.4	4.5
Diesel	8.2	8.5	9.6	5.9	7.2	11.0	9.9	11.0	10.2	12.4	23.6
Heating Oil	0.2	0.1	0.4	0.3	0.1	0.1	0.3	0.1	0.0	0.2	0.4
Aviation Jet	1.5	1.5	1.2	1.1	0.8	0.5	0.7	0.9	0.3	0.2	0.4
LPG	1.7	2.1	2.3	2.0	2.1	2.0	2.1	2.2	2.2	2.7	5.2
Exports	33.8	27.6	33.5	44.0	49.4	59.8	64.2	72.1	84.8	81.9	100.0
Oil	33.8	27.6	33.5	44.0	49.4	59.8	64.2	72.1	84.8	81.9	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	0.1	0.3	0.3	0.5	0.6	0.4	1.1	1.6	1.8	1.5	1.9
Diesel	0.3	0.3	0.3	0.1	0.4	0.4	0.8	0.0	0.3	0.0	0.0
Heating Oil	5.3	5.7	5.1	4.4	3.6	3.8	5.3	6.0	10.7	10.1	12.3
Aviation Jet	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.1
LPG	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	431.7	465.3	491.1	466.7	432.9	441.4	416.1	417.8	395.9	450.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	143.0	149.6	157.1	154.8	148.5	149.4	138.4	137.0	135.3	147.1	-
Final energy intensity (toe/million \$15ppp)	70.5	69.8	70.9	72.2	73.4	73.9	71.5	71.1	73.2	74.2	-
Total energy intensity (toe/million \$15ppp)	93.5	95.0	97.4	99.1	98.7	99.3	96.2	96.4	98.3	100.7	-

*Heat is included

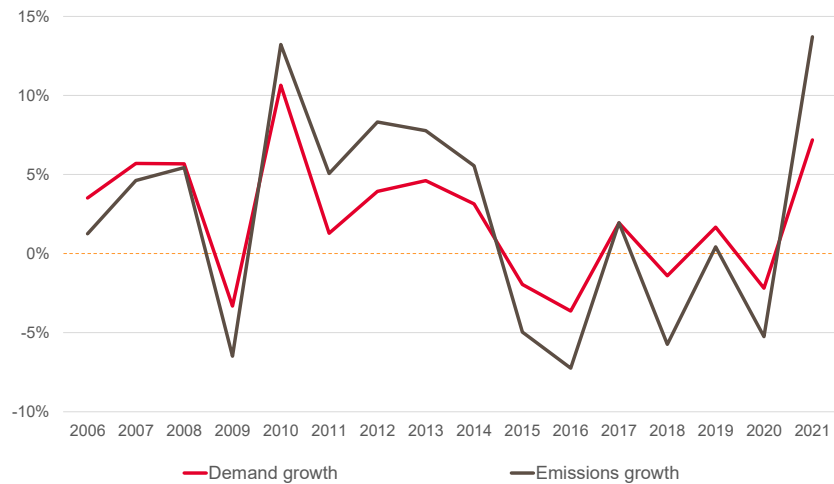
Primary energy demand mix



Electricity generation by source



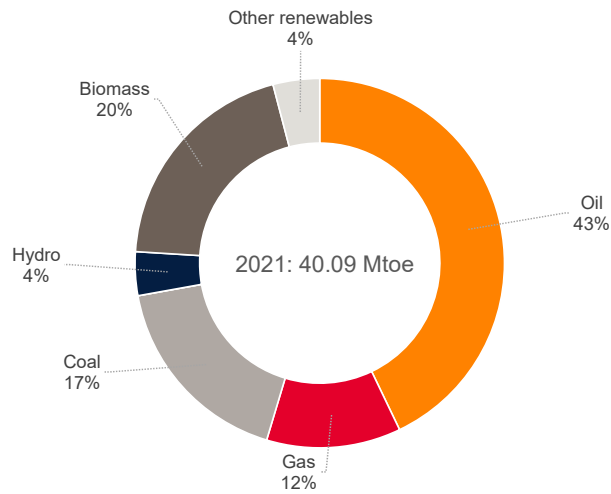
Primary energy demand and CO₂ emissions growth



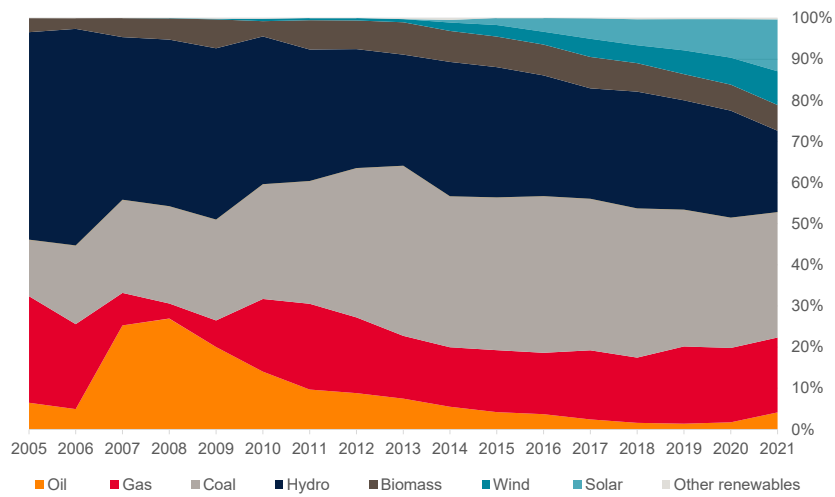
Chile (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	37.2	38.5	34.8	35.5	37.8	38.4	39.1	41.4	38.1	40.1	100.0
Oil	15.6	15.8	15.4	15.3	16.1	16.0	16.4	16.5	15.2	17.1	42.6
Gas	4.3	4.1	3.6	4.0	4.3	4.3	4.4	5.3	5.0	4.7	11.7
Coal	6.2	6.5	6.1	6.6	7.1	7.3	7.1	8.2	6.9	7.0	17.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.7	1.7	2.0	2.1	2.0	1.8	2.0	1.9	1.9	1.5	3.8
Biomass	9.4	10.3	7.4	7.3	7.8	8.1	8.2	8.2	7.6	7.9	19.8
Other renewables	0.0	0.0	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	4.1
Electricity balance of trade*	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.8
Total final consumption, by source	25.2	26.7	24.9	25.0	26.4	26.7	27.7	28.2	26.7	27.9	100.0
Oil	12.6	13.5	13.6	13.8	14.8	15.2	15.5	15.3	14.0	15.1	54.1
Gas	1.4	1.4	1.3	1.5	1.7	1.7	2.0	2.4	2.3	2.1	7.5
Coal	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.3	1.2
Electricity	5.4	5.6	5.8	5.8	6.0	6.0	6.3	6.4	6.4	6.7	23.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
Biomass	5.4	5.8	3.9	3.6	3.5	3.3	3.5	3.6	3.5	3.6	13.0
Electricity generation, by source	6.0	6.3	6.1	6.5	6.8	6.8	7.1	7.3	7.3	7.7	100.0
Oil	0.5	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.3	4.1
Gas	1.1	1.0	0.9	1.0	1.0	1.1	1.1	1.4	1.3	1.4	18.2
Coal	2.2	2.6	2.2	2.4	2.6	2.5	2.6	2.4	2.3	2.3	30.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.7	1.7	2.0	2.1	2.0	1.8	2.0	1.9	1.9	1.5	19.8
Biomass	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.3
Wind	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	8.2
Solar	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	1.0	12.6
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	25.2	26.7	24.9	25.0	26.4	26.7	27.7	28.2	26.7	27.9	100.0
Industry	9.3	10.0	10.5	10.5	10.7	10.2	10.7	10.6	10.5	10.6	38.0
Transport	7.5	8.2	8.1	8.5	8.9	9.2	9.5	9.7	8.5	9.4	33.8
Residential/Commercial	7.4	7.6	5.5	5.5	6.0	6.1	6.1	6.3	6.2	6.5	23.3
Oil final consumption, by sector	12.6	13.5	13.6	13.8	14.8	15.2	15.5	15.3	14.0	15.1	100.0
Industry	2.9	3.3	3.7	3.9	3.8	3.6	3.6	3.5	3.6	3.6	23.6
Transport	7.4	8.2	8.0	8.4	8.8	9.1	9.4	9.5	8.4	9.3	61.7
Residential/Commercial	1.5	1.4	1.2	1.2	1.6	1.8	1.8	1.7	1.6	1.8	11.8
Natural gas final consumption, by sector	1.4	1.4	1.3	1.5	1.7	1.7	2.0	2.4	2.3	2.1	100.0
Industry	0.6	0.7	0.6	0.8	0.8	0.8	0.9	0.9	0.9	0.8	38.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Residential/Commercial	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	26.8
Refined products consumption	12.6	13.5	13.6	13.8	14.8	15.2	15.5	15.3	14.0	15.1	100.0
Gasoline	2.8	3.1	3.3	3.3	3.5	3.5	3.5	3.6	3.0	3.8	25.0
Diesel	6.5	7.1	6.8	7.5	8.0	8.2	8.5	8.5	8.3	8.5	56.0
Heating Oil	1.0	1.0	0.9	0.7	0.7	0.7	0.7	0.6	0.4	0.3	2.3
Aviation Jet	0.3	0.3	0.4	0.6	0.5	0.5	0.6	0.7	0.3	0.4	3.0
LPG	1.4	1.4	1.5	1.2	1.4	1.5	1.5	1.5	1.6	1.7	11.0
Imports	19.9	20.6	19.3	19.4	20.7	20.6	21.0	21.7	20.0	21.7	100.0
Oil	16.6	17.3	16.4	16.3	17.1	17.1	17.5	17.6	15.9	17.9	82.6
Gas	3.3	3.3	2.9	3.1	3.7	3.5	3.5	4.0	4.1	3.8	17.4
Gasoline	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.3	0.4	1.0	4.6
Diesel	5.0	5.1	5.1	5.4	5.8	5.4	5.7	5.7	6.0	6.3	28.9
Heating Oil	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Aviation Jet	0.5	0.5	0.4	0.5	0.6	0.7	0.6	0.5	0.2	0.4	1.7
LPG	0.9	1.2	1.1	0.9	1.2	1.2	1.2	1.1	1.3	1.3	6.2
Exports	0.9	0.9	0.6	0.5	0.7	0.7	0.9	0.5	0.6	0.8	100.0
Oil	0.9	0.9	0.6	0.5	0.4	0.5	0.7	0.5	0.6	0.8	100.0
Gas	0.0	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0
Gasoline	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	12.1
Diesel	0.4	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.5
Heating Oil	0.1	0.2	0.1	0.3	0.3	0.3	0.4	0.2	0.2	0.4	50.3
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	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.2	31.0
CO₂ Emissions (Million tons CO₂)	78.7	82.6	76.7	81.5	86.1	86.9	86.8	92.0	85.8	90.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	209.1	210.9	192.4	199.8	207.6	207.1	199.4	209.4	207.1	195.7	-
Final energy intensity (toe/million \$15ppp)	65.0	66.6	60.7	60.7	62.2	62.2	62.0	62.2	62.4	58.8	-
Total energy intensity (toe/million \$15ppp)	98.8	98.3	87.2	87.1	91.2	91.5	89.7	94.1	92.0	86.7	-

*Heat is included

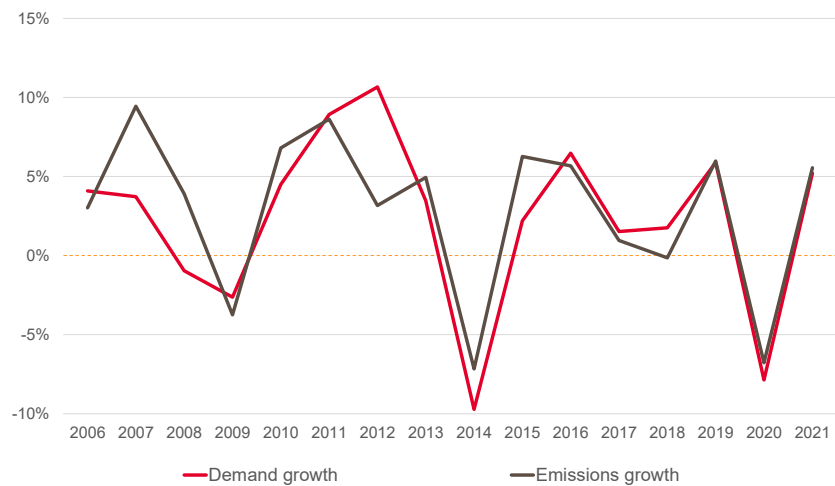
Primary energy demand mix



Electricity generation by source



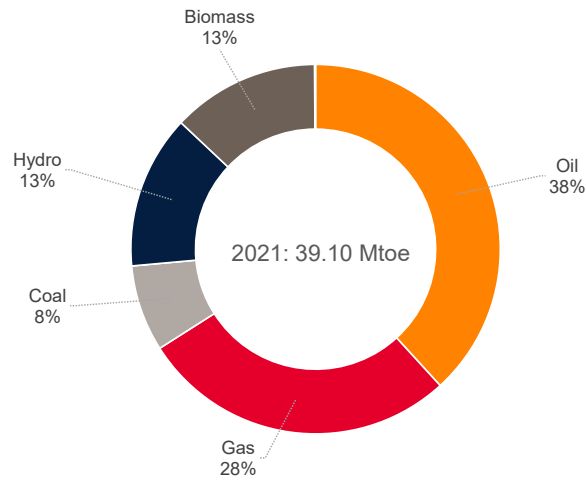
Primary energy demand and CO₂ emissions growth



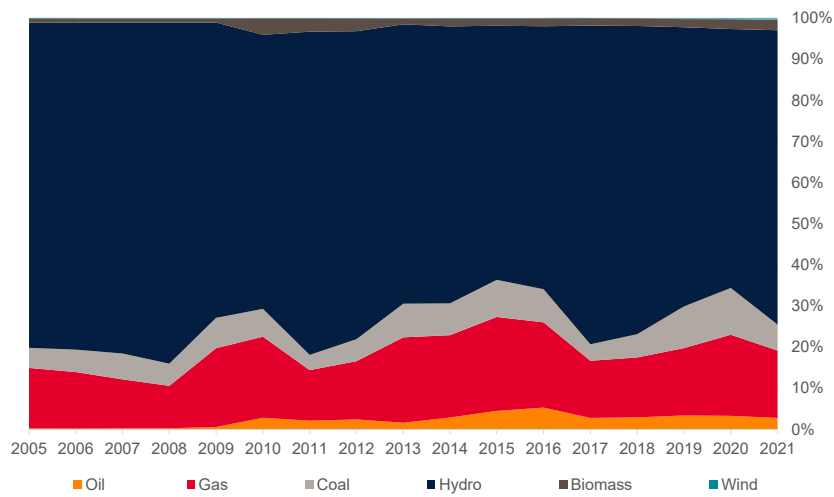
Colombia (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	30.3	39.6	40.1	40.6	42.1	40.3	38.9	44.0	37.4	39.1	100.0
Oil	11.2	14.8	14.8	15.3	17.3	16.0	15.0	17.3	13.0	14.9	38.2
Gas	7.9	9.8	10.3	10.1	9.6	9.8	10.2	12.0	10.8	10.9	27.8
Coal	2.9	4.7	4.8	5.1	5.1	3.9	3.5	4.8	4.0	3.0	7.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.1	4.3	4.1	4.2	4.2	5.3	5.2	4.7	4.3	5.3	13.5
Biomass	4.2	6.1	6.2	6.0	5.8	5.4	5.0	5.3	5.1	5.0	12.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Total final consumption, by source	24.8	28.6	29.3	28.9	30.6	29.5	29.0	31.5	28.8	30.4	100.0
Oil	11.6	11.9	12.2	12.1	13.5	12.7	12.6	14.0	12.2	13.9	45.6
Gas	3.8	3.5	3.5	3.8	4.0	4.0	4.1	4.5	4.3	4.2	13.9
Coal	1.7	2.7	2.7	2.3	2.4	2.5	2.5	2.3	2.1	1.9	6.2
Electricity	4.2	4.8	5.0	5.1	5.2	5.3	5.3	5.8	5.6	6.0	19.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.5	5.8	5.9	5.6	5.5	5.0	4.6	4.8	4.6	4.4	14.6
Electricity generation, by source	5.5	6.4	6.1	6.8	6.6	6.8	6.9	6.9	6.8	7.4	100.0
Oil	0.1	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	2.8
Gas	0.8	1.3	1.2	1.5	1.4	0.9	1.0	1.1	1.3	1.2	16.4
Coal	0.3	0.5	0.5	0.6	0.5	0.3	0.4	0.7	0.8	0.5	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	4.1	4.3	4.1	4.2	4.2	5.3	5.2	4.7	4.3	5.3	71.6
Biomass	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	2.5
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	0.4
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	24.8	28.6	29.3	28.9	30.6	29.5	29.0	31.5	28.8	30.4	100.0
Industry	6.0	7.5	7.5	7.1	7.4	7.8	7.4	7.9	7.4	7.3	24.1
Transport	9.3	8.9	9.3	10.0	10.4	10.4	10.7	11.1	9.7	10.8	35.6
Residential/Commercial	6.6	8.3	8.5	8.2	8.2	8.0	8.1	8.4	8.3	8.4	27.6
Oil final consumption, by sector	11.6	11.9	12.2	12.1	13.5	12.7	12.6	14.0	12.2	13.9	100.0
Industry	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.7	5.0
Transport	8.3	7.7	8.0	8.7	9.2	9.3	9.5	10.0	8.7	9.8	70.7
Residential/Commercial	0.7	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	3.8
Natural gas final consumption, by sector	3.8	3.5	3.5	3.8	4.0	4.0	4.1	4.5	4.3	4.2	100.0
Industry	2.0	1.4	1.2	1.1	1.4	1.4	1.4	1.4	1.3	1.3	31.2
Transport	0.5	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.4	0.4	9.1
Residential/Commercial	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.8	1.8	1.8	43.0
Refined products consumption	11.6	11.8	12.2	12.1	13.5	12.7	12.6	14.0	12.2	13.9	100.0
Gasoline	3.4	3.6	3.8	4.3	4.9	4.9	5.0	5.4	4.7	5.2	37.5
Diesel	6.1	6.4	6.5	6.1	6.1	5.4	5.9	5.9	5.0	5.7	41.0
Heating Oil	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.2	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	0.0
LPG	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	5.2
Imports	5.0	7.8	9.1	6.6	9.0	6.6	4.6	5.5	6.2	6.4	100.0
Oil	5.0	7.8	9.1	6.6	9.0	6.6	4.6	5.5	5.9	6.4	98.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.4
Gasoline	0.5	1.2	1.5	1.5	2.3	2.2	1.1	1.1	1.4	1.5	23.8
Diesel	2.6	4.2	4.5	2.7	3.5	1.5	0.6	1.3	1.3	1.4	21.1
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	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.7
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.2
Exports	42.6	46.1	45.7	43.9	37.5	37.8	36.6	35.2	34.4	30.8	100.0
Oil	41.2	44.5	44.9	43.6	37.5	37.8	36.6	35.2	34.4	30.8	100.0
Gas	1.4	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.4	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.2	0.6
Diesel	0.7	0.7	0.0	0.0	0.7	0.9	1.6	2.1	2.4	2.2	7.0
Heating Oil	3.8	3.7	3.4	2.4	2.7	2.4	1.9	1.6	1.2	1.1	3.6
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	63.6	71.3	73.1	74.4	78.4	70.7	74.1	81.2	73.2	71.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	114.1	121.7	119.4	118.0	121.8	108.4	110.8	117.5	113.7	100.1	-
Final energy intensity (toe/million \$15ppp)	42.5	46.9	46.0	44.4	44.6	43.0	42.0	42.5	41.9	39.4	-
Total energy intensity (toe/million \$15ppp)	54.3	67.6	65.5	64.3	65.4	61.8	58.1	63.8	58.0	54.9	-

*Heat is included

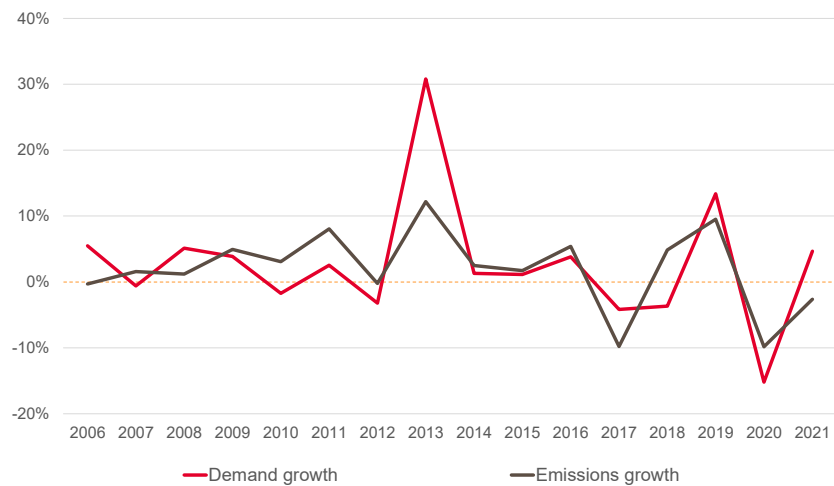
Primary energy demand mix



Electricity generation by source



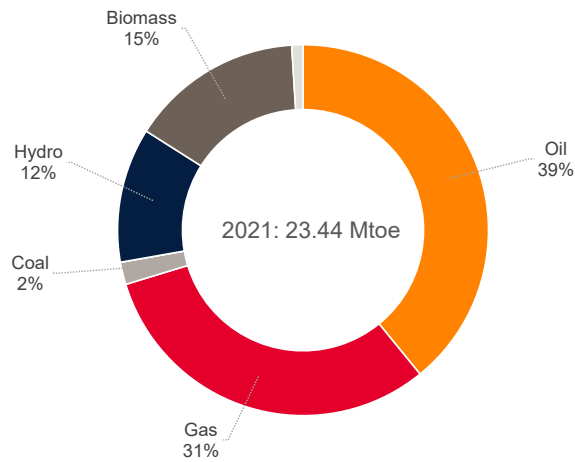
Primary energy demand and CO₂ emissions growth



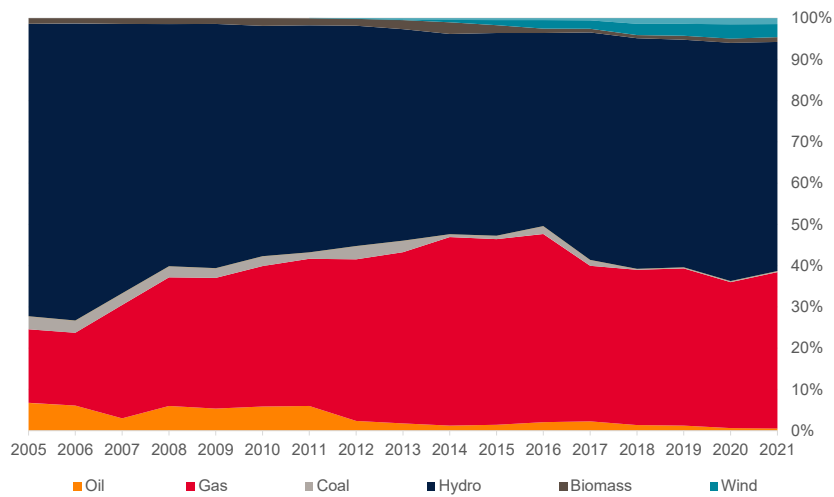
Peru (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	21.6	20.8	21.9	22.6	23.6	23.9	25.0	25.9	21.9	23.4	100.0
Oil	8.5	7.9	7.5	8.3	8.7	10.2	10.8	11.3	8.7	9.2	39.1
Gas	6.8	6.4	8.0	7.9	8.3	7.0	7.3	7.6	6.4	7.3	31.1
Coal	0.8	0.9	0.8	0.8	0.8	0.7	0.6	0.7	0.5	0.5	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	1.8	1.9	1.9	2.0	2.1	2.5	2.6	2.7	2.6	2.7	11.7
Biomass	3.7	3.7	3.7	3.5	3.5	3.3	3.4	3.4	3.4	3.5	15.0
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	1.0
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total final consumption, by source	16.9	17.8	17.6	18.6	19.1	19.2	20.1	20.7	17.7	18.9	100.0
Oil	8.5	8.8	8.6	9.2	9.6	9.8	10.1	10.5	8.6	9.3	49.1
Gas	1.4	2.0	1.9	1.9	1.9	2.1	2.3	2.4	1.8	2.0	10.5
Coal	0.6	0.6	0.6	0.7	0.6	0.5	0.5	0.5	0.3	0.3	1.6
Electricity	3.1	3.3	3.4	3.6	3.9	4.0	4.2	4.3	3.9	4.3	22.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Biomass	3.3	3.2	3.1	3.1	3.2	2.8	3.0	2.9	3.0	3.0	16.1
Electricity generation, by source	3.4	3.7	3.9	4.1	4.4	4.5	4.7	4.9	4.5	4.9	100.0
Oil	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.5
Gas	1.3	1.6	1.8	1.9	2.0	1.7	1.8	1.9	1.6	1.9	37.9
Coal	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.8	1.9	1.9	2.0	2.1	2.5	2.6	2.7	2.6	2.7	55.5
Biomass	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.2
Wind	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	3.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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	16.9	17.8	17.6	18.6	19.1	19.2	20.1	20.7	17.7	18.9	100.0
Industry	4.5	5.1	5.1	5.3	5.2	5.4	5.7	5.9	4.9	5.3	28.0
Transport	6.4	6.9	6.9	7.5	8.2	8.3	8.6	9.1	7.0	7.5	39.7
Residential/Commercial	4.8	5.0	5.0	5.0	5.0	5.0	5.3	5.2	5.4	5.8	30.4
Oil final consumption, by sector	8.5	8.8	8.6	9.2	9.6	9.8	10.1	10.5	8.6	9.3	100.0
Industry	1.2	1.3	1.3	1.2	1.0	0.9	1.1	1.0	1.0	1.1	11.3
Transport	5.5	6.0	5.9	6.5	7.2	7.3	7.5	8.0	6.2	6.7	72.2
Residential/Commercial	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.3	14.2
Natural gas final consumption, by sector	1.4	2.0	1.9	1.9	1.9	2.1	2.3	2.4	1.8	2.0	100.0
Industry	0.8	1.2	1.0	1.1	1.1	1.3	1.2	1.3	1.0	1.1	54.0
Transport	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.5	0.5	27.1
Residential/Commercial	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.4	0.3	0.4	18.7
Refined products consumption	8.5	8.8	8.6	9.2	9.6	9.8	10.1	10.5	8.6	9.3	100.0
Gasoline	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	1.6	1.8	19.3
Diesel	4.5	4.7	4.6	5.1	5.2	5.1	5.2	5.4	4.6	4.7	50.9
Heating Oil	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Aviation Jet	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.1	0.3	2.9
LPG	1.5	1.7	1.7	1.8	1.9	2.0	2.1	2.2	2.0	2.2	23.7
Imports	7.3	7.4	6.9	7.6	9.4	11.8	11.3	10.5	7.2	8.9	100.0
Oil	7.3	7.4	6.9	7.6	9.4	11.8	11.3	10.5	7.2	8.9	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	0.2	0.4	0.1	0.2	0.0	0.9	1.0	0.8	1.1	1.5	16.8
Diesel	1.7	2.4	2.4	2.7	3.6	3.6	3.5	3.4	3.4	3.5	39.7
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	0.1	0.1	0.2	0.4	0.3	0.5	0.4	0.4	0.2	0.3	3.2
LPG	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	4.6
Exports	10.4	10.8	9.1	8.2	9.9	11.7	10.1	9.4	8.1	7.6	100.0
Oil	5.2	4.8	4.0	3.4	4.1	6.2	5.1	4.0	2.9	3.9	50.8
Gas	5.2	6.0	5.1	4.8	5.8	5.5	5.0	5.4	5.2	3.8	49.2
Gasoline	1.9	2.0	1.6	1.6	1.7	2.4	2.2	1.9	1.6	1.9	24.9
Diesel	0.0	0.1	0.0	0.0	0.4	0.5	0.4	0.3	0.3	0.4	5.7
Heating Oil	1.6	1.2	0.8	0.7	1.2	2.5	2.1	1.6	0.3	0.4	4.8
Aviation Jet	0.6	0.6	0.8	0.6	0.7	0.7	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	44.6	45.5	48.3	49.8	52.3	50.0	50.3	52.4	42.5	46.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	141.6	136.3	141.5	141.2	142.8	133.0	128.7	131.3	119.6	115.1	-
Final energy intensity (toe/million \$15ppp)	51.3	52.3	50.7	51.9	51.7	50.3	50.7	51.2	49.3	46.7	-
Total energy intensity (toe/million \$15ppp)	68.6	62.4	64.3	64.2	64.3	63.5	64.0	64.9	61.6	58.1	-

*Heat is included

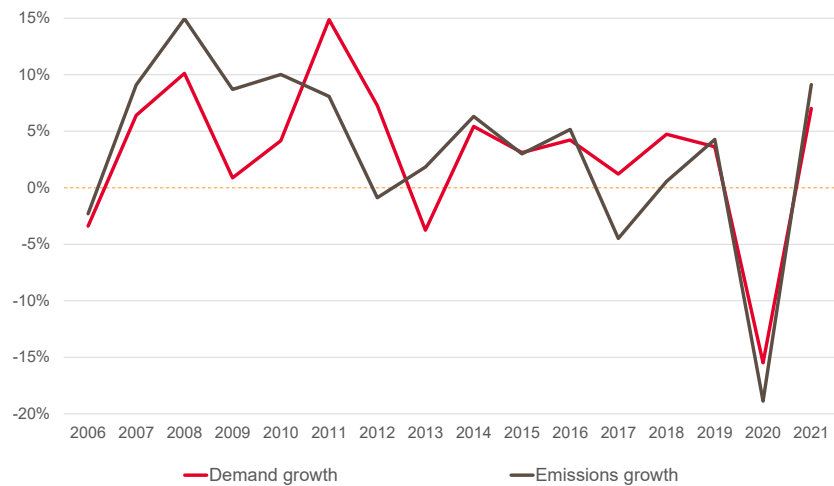
Primary energy demand mix



Electricity generation by source



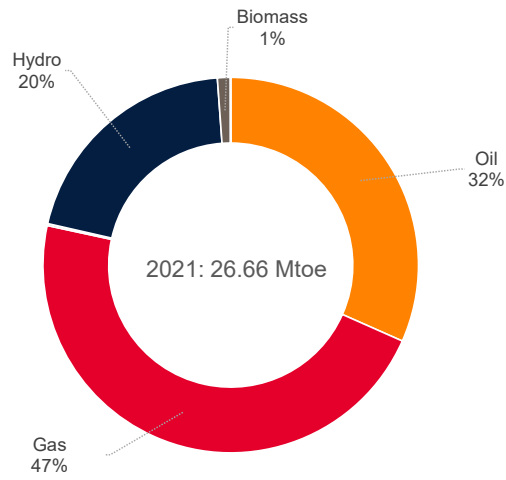
Primary energy demand and CO₂ emissions growth



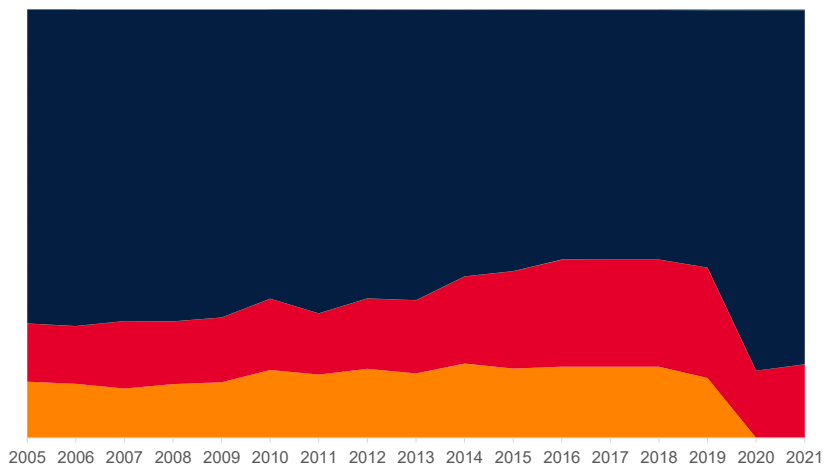
Venezuela (Million toe)	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Share in 2021 (%)
Total primary energy demand, by source	68.8	76.1	66.0	64.3	58.8	55.1	40.5	33.0	24.5	26.7	100.0
Oil	38.9	46.6	39.2	36.8	31.4	28.4	16.8	13.4	7.6	8.5	31.7
Gas	21.7	21.2	20.4	20.3	21.3	20.9	18.2	15.1	11.2	12.5	46.9
Coal	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	7.1	7.2	5.5	6.4	5.4	5.2	5.0	4.3	5.4	5.4	20.4
Biomass	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.3	1.1
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*	0.0	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Total final consumption, by source	46.2	45.5	41.6	36.1	32.1	30.2	26.7	20.8	16.9	18.5	100.0
Oil	28.4	27.9	26.7	21.6	19.3	17.5	14.8	12.3	9.9	11.1	59.7
Gas	9.1	8.2	7.6	6.5	5.9	6.1	5.7	3.3	2.4	2.7	14.5
Coal	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.2
Electricity	7.6	8.4	6.2	7.1	6.2	5.9	5.6	4.7	4.3	4.4	24.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.3	0.2	0.3	1.6
Electricity generation, by source	10.5	10.6	8.9	10.6	9.3	8.9	8.6	7.1	6.4	6.6	100.0
Oil	1.7	1.6	1.5	1.7	1.5	1.5	1.4	1.0	0.0	0.0	0.0
Gas	1.7	1.8	1.8	2.4	2.3	2.2	2.1	1.8	1.0	1.1	17.2
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	7.1	7.2	5.5	6.4	5.4	5.2	5.0	4.3	5.4	5.4	82.7
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	0.0
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	46.2	45.5	41.6	36.1	32.1	30.2	26.7	20.8	16.9	18.5	100.0
Industry	17.3	16.8	13.7	10.0	8.9	9.1	8.7	5.5	4.7	5.0	27.2
Transport	18.9	18.6	18.2	15.9	13.9	12.7	11.2	10.2	8.0	9.0	48.4
Residential/Commercial	7.0	7.0	7.0	7.4	6.6	6.3	6.1	4.5	3.9	4.2	22.6
Oil final consumption, by sector	28.4	27.9	26.7	21.6	19.3	17.5	14.8	12.3	9.9	11.1	100.0
Industry	5.1	4.7	4.2	1.8	1.6	1.8	1.9	1.0	1.1	1.3	11.8
Transport	18.9	18.5	18.2	15.8	13.8	12.7	11.2	10.2	8.0	9.0	80.9
Residential/Commercial	1.6	1.7	1.7	1.2	1.1	1.1	1.1	0.6	0.5	0.5	4.6
Natural gas final consumption, by sector	9.1	8.2	7.6	6.5	5.9	6.1	5.7	3.3	2.4	2.7	100.0
Industry	8.1	7.2	6.6	5.3	4.8	5.1	4.7	2.7	2.0	2.1	77.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Residential/Commercial	1.0	1.0	1.0	1.2	1.0	1.0	0.9	0.6	0.5	0.6	21.7
Refined products consumption	28.4	27.9	26.7	21.6	19.3	17.5	14.8	12.3	9.9	11.1	100.0
Gasoline	14.5	14.4	13.6	12.5	10.9	10.5	9.1	8.4	6.4	7.2	65.2
Diesel	5.0	4.6	5.7	3.6	3.3	2.8	2.9	2.2	2.2	2.6	23.2
Heating Oil	3.8	3.6	2.6	1.0	0.9	0.9	0.9	0.5	0.4	0.4	3.6
Aviation Jet	0.6	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.6
LPG	3.3	3.4	3.4	2.9	3.0	2.3	1.0	0.6	0.5	0.5	4.5
Imports	9.5	9.4	7.5	8.7	7.6	8.4	10.2	5.9	5.3	5.6	100.0
Oil	8.1	7.8	6.8	8.4	7.6	8.4	10.2	5.9	5.3	5.6	100.0
Gas	1.4	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.5	0.5	0.4	0.7	1.1	1.5	1.6	1.3	2.6	2.8	51.1
Diesel	1.4	1.9	0.0	1.1	1.4	1.1	2.6	0.2	0.0	0.0	0.1
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	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	138.4	130.3	132.3	127.3	116.9	101.4	83.2	53.0	31.4	33.3	100.0
Oil	138.4	130.3	132.3	127.3	116.9	101.4	83.2	53.0	31.4	33.3	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	0.4	0.5	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	2.5	0.5	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	11.3	9.5	11.1	11.7	9.6	8.4	8.3	3.6	2.6	2.7	8.1
Aviation Jet	3.0	2.3	2.5	2.3	1.4	1.0	0.9	0.9	0.7	0.8	2.5
LPG	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1
CO₂ Emissions (Million tons CO₂)	162.4	159.3	156.9	142.0	130.2	124.1	112.7	87.6	54.4	59.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	257.2	249.0	255.2	246.3	272.3	307.7	347.7	373.9	331.8	363.3	-
Final energy intensity (toe/million \$15ppp)	68.5	66.4	63.3	57.7	61.6	70.0	80.4	86.3	101.0	110.5	-
Total energy intensity (toe/million \$15ppp)	108.9	119.0	107.4	111.5	123.0	136.6	124.8	141.0	149.2	161.7	-

*Heat is included

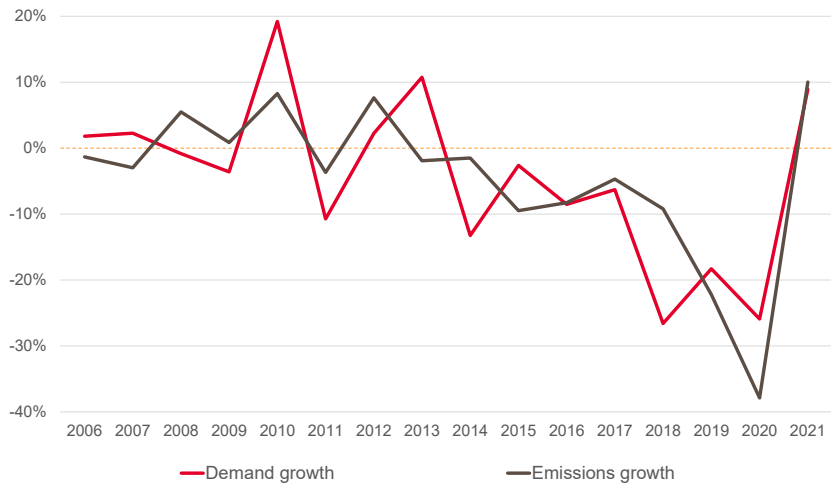
Primary energy demand mix



Electricity generation by source



Primary energy demand and CO₂ emissions growth



Conversion factors

Crude oil					
To convert to:	<i>tonnes</i>	<i>10³ litres</i>	<i>barrels</i>	<i>U.S. gallons</i>	<i>tonnes/year</i>
Multiply by:					
<i>tonnes</i>	1.00	1.17	7.33	307.86	–
<i>10³ litres</i>	0.86	1.00	6.29	264.17	–
<i>barrels</i>	0.14	0.16	1.00	42.00	–
<i>U.S. gallons</i>	0.00	0.00	0.02	1.00	–
<i>barrels per day</i>	–	–	–	–	49.80

Note: based on worldwide average gravity.

Products				
To convert to:	<i>barrels to tonnes</i>	<i>tonnes to barrels</i>	<i>10³ litres to tonnes</i>	<i>tonnes to 10³ litres</i>
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 an Liquefied Natural Gas (LNG)					
To convert to:	<i>Bcm NG</i>	<i>Bcf NG</i>	<i>Million toe</i>	<i>Million ton. LNG</i>	<i>Million boe</i>
Multiply by:					
<i>Bcm NG</i>	1.0	35.3	0.9	0.7	6.6
<i>Bcf NG</i>	0.0	1.0	0.0	0.0	0.2
<i>Million toe</i>	1.1	39.2	1.0	0.8	7.3
<i>Million ton. LNG</i>	1.4	48.0	1.2	1.0	9.0
<i>Million boe</i>	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 measured in terms of 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 measured in terms of 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 measured in terms of purchasing power parity (ppp).

Geographical grouping

European Union (EU27)

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden.

OECD

Australia, Austria, Belgium, Canada, Chile, Colombia, Costa Rica, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States.

OPEC

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

MORE INFORMATION

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