



Annual Energy-Statistics 2023

Annual / Energy-Statistics 2023

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 2013 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

In 2022, high energy prices and rising food prices led to an increase in inflation levels not seen in decades. Prices had already been climbing due to the economic rebound after the pandemic, as well as disruptions in supply chains caused by lockdowns. However, inflation skyrocketed worldwide following the Russian invasion of Ukraine and the resulting war.

The increase in prices caused a reduction in purchasing power, which harmed consumers throughout 2022. Additionally, that same year, central banks around the world began a policy of raising interest rates to curb inflation and anchor inflation expectations in their economies. Thus, the tightening of monetary policy, the adjustment of household real income, and the decline in confidence led to slower economic growth during 2022, at 3.5% compared to the 6.3% recorded in 2021, according to data from the International Monetary Fund.

This economic context resulted in a global slowdown in energy consumption, reaching 2% in 2022 after growing by 5% in 2021. This trend, which can be considered a significant adjustment following the strong demand surge experienced in 2021 associated with the end of strict lockdowns and the deployment of vaccines, is still a notable growth in relative terms. The average annual growth of global energy consumption during the pre-pandemic period of 2015-2019 was 1.7%, three tenths below the growth recorded in 2022. In other words, in 2022, the growth in global energy demand was more dynamic than before the pandemic, despite the context of war and sustained increase in energy prices. To give an idea of this last point, in the case of oil, the average price in 2022 was almost double the average during the pre-pandemic period of 2015-2019.

The 2% of growth in 2022 led to total primary energy demand reaching 14,951 million tonnes of oil equivalent (toe). Oil contributed 30% of the primary energy consumed globally, followed by coal at 27% and natural gas at 23%. Renewable energies continued their expansion in 2022. If we exclude hydroelectric and biomass, the rest of the renewables saw a 17% increase, although they accounted for only 2% of the total primary energy consumed globally.

By regions, in 2022, the OECD contracted its demand for primary energy by 0.6%, after having increased by almost 5% in 2021, with consumption falling for all energy sources except for oil, biomass, and other renewables. Meanwhile, in non-OECD countries, demand expanded by 3.4%, with consumption only declining for natural gas and nuclear. It is worth noting the decline in natural gas consumption in both regions, due to the sharp increase in prices: both in Europe and Asia, the average gas price in 2022 was twice that of oil.

In terms of sectors, transportation once again experienced solid growth, with a 5% increase in energy demand. Meanwhile, the residential/commercial and industrial sectors saw more modest increases, at 1.9% and 1.1% respectively. Energy intensity (i.e., the energy needed to produce one unit of gross domestic product) continued its positive trend -a reduction in intensity- globally in 2022, largely because the expansion of primary demand was lower than the expansion of the economy. Over the past 10 years, global energy intensity has been reduced by nearly 15%. Similar trends have been followed by both the OECD and non-OECD economies.

CO₂ emissions recent development

CO₂ emissions increased by just over 2.6% to reach a new record high in 2022.

For the second consecutive year, the growth of emissions was of the same order of magnitude as global economic growth, something that had not happened in the past decade, when economic development always outpaced the growth of emissions, responding to efforts to decarbonize economies.

The high price of natural gas in 2022 forced many countries to shift their consumption towards coal, which led to a decline in emissions from gas consumption, something that had only been seen in years of economic crises in recent years. Similarly, emissions from coal combustion experienced one of the highest annual growth rates in recent years, reaching a new historical peak, surpassing the levels of 2014.

The behavior of different countries and regions has been very different, and while emissions in the European Union have fallen in response to a slowdown in industrial activity, in the United States, the increased consumption of natural gas offset the reduced use of coal and resulted in an increase in emissions. In the case of Spain, the trend has been opposite to that of its neighboring countries, and emissions have increased due to higher consumption of oil and coal.

India and Indonesia saw the largest increases in emissions, both due to the growth of the industry based on coal-fired power generation, while China remains the country with the highest emissions (accounting for 33% of global emissions).

The situation is very different when analyzing other indicators such as per capita emissions, where Gulf countries continue to top the list. For example, each Qatari generates seven times more CO₂ than the global average. In Spain, the increase in emissions during 2022 has been slightly above the global average, so per capita emissions continue to be slightly higher than the global average (5.3 tons per person compared to the global average of 4.9 tons per person).

Regarding emissions intensity (emissions per unit of GDP), European countries continue to be the most efficient with their emissions, well below the majority of major emitters. Since the EU economy grew in 2022 while emissions decreased, this indicator has improved compared to the previous year, and now emissions per dollar of GDP in the EU are 44% below the global average.

Oil market recent development

The price of the global benchmark Brent crude reached an average of \$101 per barrel (\$/bbl) in 2022, the highest annual average price since 2013. This represents an increase of over 40% compared to the 2021 average of \$71/bbl.

The high prices were primarily observed in the first half of the year, initially in response to a recovering demand as economies reopened after the impact of COVID-19, and due to production restrictions imposed by major oil producers. However, it was after Russia's invasion of Ukraine that market uncertainty intensified, with the focus shifting to supply availability, leading Brent to reach a peak of \$128/bbl in early March 2022. Prices remained at a high level until mid-year, when they gradually declined as concerns about a recession weighed on the market. Brent averaged just over \$82/bbl in December 2022, similar to the January 2022 average of \$85/bbl.

In 2022, global demand for petroleum products increased by slightly over 2 million barrels per day (mb/d) to nearly 100 mb/d, approaching the pre-pandemic level of 100.8 mb/d in 2019. The demand growth was largely driven by aviation fuel, supported by the recovery in air transportation following the pandemic. Growth in other product segments continued in 2022, albeit at a slower pace. Global diesel consumption growth declined from 1.5 mb/d in 2021 to 0.66 mb/d in 2022, reflecting weakened economic activities. Naphtha, after a strong growth year in 2021, decreased by 0.13 mb/d due to weakness in the petrochemical sector.

Regionally, growth was largely driven by non-OECD markets, particularly the Middle East and India. Chinese demand decreased by around 0.4 mb/d as closures in the country impacted demand. Among OECD markets, European growth was particularly weak. While high gas prices prompted a shift from gas to oil, this was largely offset by weakness in the petrochemical sector, which had to cope with high energy costs.

World oil production increased to 100 million b/d in 2022, up by 4.6 mb/d compared to 2021. The production increase was concentrated in Saudi Arabia and the United States. Saudi Arabia supplied 1.4 mb/d more than in 2021, approximately half of OPEC's supply growth. Outside of OPEC, the U.S. added 1.2 mb/d, accounting for around 60% of non-OPEC growth. During the third quarter, doubts arose about whether OPEC would increase production at the pace of demand recovery, as several member countries were producing below their quotas. In November, OPEC reintroduced production cuts of 2 mb/d in anticipation of a potential surplus in case of worsening economic conditions.

The Russian invasion of Ukraine has significant implications for global crude and petroleum product supply. Prior to the invasion, Russian production was expected to increase by over 0.8 mb/d in 2022, according to the International Energy Agency (IEA). However, actual production growth was only around 0.2 mb/d due to OECD market sanctions. The global trade flow of crude and products also shifted as Russian production sought destinations in non-OECD countries.

The market in 2023 has been influenced by supply constraints and the risk of recession in OECD economies, particularly in Europe. China's reopening to focus on economic growth is providing support to global oil demand. The main supply-side uncertainty is Russian ability to overcome an embargo¹ on its crude and petroleum products, since OPEC, led by Saudi Arabia, seems highly committed with production cuts.

¹ The EU embargo and the G7 price caps on Russian crude came into effect in early December 2022. The embargo and limitations on prices for Russian petroleum products did it in February 2023.

Natural gas market recent development

The global natural gas market suffered a shock in 2022, when Russia substantially cut pipeline supplies to Europe, adding unprecedented pressure on gas markets, and triggering a global energy crisis.

Despite this, Europe was able to offset the lack of Russian supply and gas storage infrastructures could be filled well above historical averages. The main reasons were, on the one hand, mild temperatures, and on the other hand, a combination of policy measures, a record inflow of liquefied natural gas (LNG) and a sharp drop in demand, especially in highly energy-intensive industries.

The reduction in Russian supply also had implications for other consuming regions beyond Europe, leading to an environment of exorbitant prices, supply tensions and a significant reduction in demand.

Global gas consumption fell 1.5% year-on-year in 2022, a similar drop to that experienced in 2020 after the first wave of COVID-19 lockdowns. Most of the reduction in demand was concentrated in the main European and Asian import markets. The sharp increase in gas prices supported the dynamics of the switch from gas-to-coal in the power sector and depressed the use of gas in energy-intensive industries. The measures to improve energy efficiency and the continuous deployment of renewable energies, reduced the demand for gas in a structural way.

The war in Ukraine highlighted the fragility of the global gas balance and the need to prioritize security of supply. Gas import markets remained exposed to a tight supply environment and the impact of possible further cuts in Russian supply. This was a concern for much of the year.

Governments in Europe and other importing markets took policy steps to increase their energy resilience and reduce reliance on natural gas. This gave a strong boost to the business and commercialization of LNG.

LNG demand was dominated by a sharp increase in LNG imports received in Europe, which was balanced by a sharp drop in the rest of the world, particularly Asia. While the US supplied about two-thirds of the LNG to Europe, other “alternative suppliers” redirected significant volumes to the European market: Qatar, Egypt, Norway, Angola, Russia, and Trinidad and Tobago, which provided most of the remaining third.

Regarding to the Asian basin, the year was marked by strong competition with Europe to attract gas, which raised prices substantially. But once the comfort point was reached in order to face the winter, a gradual rebalancing process began in the market which has been maintained in the first months of 2023.

As a result of this, the prices of the main global gas markers (Northeast Asia, North America, and Europe) fell by close to 70% between mid-December and the end of 1Q23, while the levels of stored gas ended the heating season well above their five-year averages.

In the short term, the accessibility of gas, healthy gas storage levels and the persistence of weak demand, are reasons for cautious optimism regarding the security of supply. However, this confluence of factors should not distract us from taking the additional measures needed to mitigate potential risks that could quickly reignite market tensions and price volatility.

Power generation recent development

In 2022, worldwide electricity generation increased with the improvement of the economy, reaching an annual growth in line with the average of the last decade [2.3%] and marking a new historical high.

The installation of new wind and solar generation capacity resulted in an increase in the percentage of renewable generation in the electricity generation mix, reaching almost 30% of global generation in 2022, surpassing the previous year's figure by 1.5 percentage points. Currently, wind and solar generation represent only 7% and 4% of electricity production, but they have nearly doubled their production in just 5 years. Among renewable sources, hydroelectric power remains the most important, maintaining a generation share of around 16%, in line with previous years.

Conventional thermal generation also achieved several milestones. Electricity generated from coal reached a historical high, as did gas-generated electricity, despite the high price of raw materials. Oil-based generation, which is much lower in volume compared to other fossil fuels and has historically been decreasing, reached its highest level in the last 5 years and has seen two consecutive years of increase.

Distinguishing by regions, emerging countries are installing more renewable capacity. However, since they are also installing thermal generation capacity, the percentage of renewable generation in the generation mix of OECD countries is growing faster than in emerging ones.

The European Union has managed to increase its renewable generation, reaching a maximum of nearly 40% in the generation mix, a figure much higher than the OECD average.

It is worth noting the case of China, where the largest renewable capacity is being installed by far. For the first time, China has surpassed a 30% share of renewable generation.

Spanish energy market recent development

Spanish economic recovery in 2022 led to an 8% increase in oil consumption. However, it remains far from recovering the levels seen before the pandemic.

This increase in petroleum product consumption has been driven by the transportation sector, which has shown the highest growth (8%), while other sectors have exhibited more modest increases, especially the industry and agriculture.

Aviation fuel stands out among petroleum products, with demand increasing by 75% compared to 2021. However, it has not yet reached the level of 2019, as neither the number of flights nor the number of passengers transported have recovered either.

The trend in land transportation fuels remains consistent with recent years, with gasoline continuing to gain importance over diesel. In 2022, gasoline consumption increased by 10%, reaching the highest level since 2010, while diesel growth was only 2% and its level remains below that of 2019. Despite this gasoline growth, diesel still accounts for 79% of automotive fuel consumption. On a much smaller scale, automotive LPG increased by 24%, surpassing all previous records.

Natural gas consumption in Spain varied significantly depending on the consumer. Gas for conventional uses responded to the skyrocketing prices by falling more than 20% compared to the previous year, reaching minimum levels since 2007. Within this sector, industrial consumption experienced a much greater decline than domestic consumers and small and medium-sized enterprises. On the other hand, gas used for electricity generation increased by over 50% due to regulatory changes that allowed it to remain largely unaffected by prices (the Consumer Adjustment Mechanism, which operated during the second half of the year).

This temporary regulation of the electricity market led combined-cycle plants to generate 50% more energy than the previous year, making Spain a net electricity exporter through its exchanges with France (which was also experiencing issues with its nuclear generation).

The electricity generation system continues to add new renewable generation capacity. Installed solar photovoltaic power increased by 30% and solar power by 5%, while generation capacity with coal was phased out.

Despite this new renewable capacity, the increased use of gas resulted in an increase in emissions from the electricity system, as the percentage of generation from non-CO₂ emitting sources decreased to 63% (down from 68% the previous year).

Statistical annex



Oil

Oil Proved Reserves (Thousand million barrels)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	245.1	247.6	219.6	243.8	243.9	252.3	253.9	255.8	246.4	265.0
Canada	199.3	197.6	169.4	196.2	194.3	192.5	194.1	193.8	193.9	189.0
Mexico	10.9	9.8	9.6	9.6	8.5	8.0	5.9	5.9	5.6	5.5
United States	45.8	50.1	50.2	47.6	49.6	59.8	59.8	62.0	52.5	70.5
South and Central America	237.3	237.0	233.8	382.5	381.3	381.4	378.4	378.0	379.0	381.1
Argentina	2.3	2.3	2.4	2.4	2.1	2.0	2.0	2.5	2.5	2.9
Brazil	15.5	16.1	12.9	12.5	12.7	13.5	12.6	11.8	13.2	14.7
Chile	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Colombia	2.4	2.3	2.0	1.6	1.6	1.8	1.9	2.0	1.8	2.0
Peru	1.5	1.3	1.4	1.2	1.2	1.0	0.9	0.6	0.8	0.9
Trinidad & Tobago	0.8	0.8	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Venezuela	194.5	195.7	195.8	345.9	345.9	345.9	345.9	345.9	345.9	345.8
Other	20.1	18.4	18.4	18.4	17.3	16.8	14.7	14.7	14.4	14.4
Europe	16.7	16.3	15.8	15.1	15.9	16.5	16.2	14.4	13.6	13.2
France	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Germany	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Italy	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Netherlands	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Norway	6.5	6.4	7.2	7.0	7.9	8.6	8.5	7.7	7.5	7.3
Poland	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Romania	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Spain	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Turkey	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
United Kingdom	5.4	5.2	4.1	3.8	3.7	3.7	3.5	2.5	2.0	1.8
EU	4.2	4.1	3.9	3.7	3.7	3.6	3.6	3.6	3.6	3.6
Other	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1
Former Soviet Union	131.8	135.6	136.3	147.4	144.1	144.1	145.1	146.4	146.4	146.4
Azerbaijan	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Kazakhstan	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
Russia	92.4	96.3	97.7	108.8	105.5	105.5	106.5	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	1.7	1.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Middle East	791.8	790.9	799.9	796.1	817.2	816.4	816.7	825.4	833.0	843.2
Iran	156.7	156.5	157.3	156.1	154.5	154.5	154.5	158.2	158.2	158.2
Iraq	143.2	142.1	141.5	147.8	146.2	144.0	144.0	144.0	144.0	144.0
Kuwait	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
Qatar	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
Saudi Arabia	258.4	259.3	267.3	258.3	282.5	283.9	284.2	289.2	283.7	289.7
United Arab Emirates	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	110.2	114.4
Other	10.4	10.0	10.8	10.8	10.9	11.0	10.9	10.9	11.0	11.0
Africa	134.5	129.1	128.1	127.5	125.5	124.1	125.4	124.7	122.9	123.1
Algeria	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	11.4	11.4
Angola	12.6	12.6	12.5	11.5	9.5	8.3	8.1	7.7	7.7	7.7
Egypt	4.4	4.4	4.4	4.4	4.4	3.1	3.3	3.1	3.0	3.0
Libya	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
Nigeria	36.8	36.8	36.8	37.2	37.2	36.7	36.6	36.6	36.8	36.9
Other	20.6	15.1	14.3	14.3	14.3	15.9	17.2	17.1	16.0	16.0
Asia-Pacific	42.1	42.1	41.6	47.9	47.7	46.4	46.1	45.2	44.8	44.9
Australia	3.9	4.0	4.0	4.0	4.0	2.5	2.5	1.8	1.6	1.6
China	18.0	18.4	18.4	25.5	25.5	25.8	26.0	25.9	25.8	26.3
India	5.5	5.4	4.6	4.5	4.4	4.3	4.5	4.5	4.5	4.4
Indonesia	3.6	3.7	3.6	3.2	3.1	3.1	2.5	2.4	2.2	2.1
Malaysia	4.0	3.6	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
Thailand	0.4	0.4	0.7	0.4	0.3	0.3	0.3	0.1	0.2	0.1
Vietnam	4.4	4.4	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.3
Other	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.5
OECD	278.4	279.4	250.4	273.5	273.3	280.4	279.7	279.3	268.4	281.2
Non-OECD	1,320.9	1,319.3	1,324.9	1,486.7	1,502.3	1,500.8	1,502.1	1,510.6	1,517.8	1,535.7
OPEC	1,096.3	1,096.4	1,104.7	1,250.2	1,269.2	1,266.8	1,266.9	1,275.1	1,282.1	1,292.4
Non-OPEC	503.0	502.3	470.7	510.0	506.4	514.4	514.9	514.9	504.1	524.6
World	1,599.3	1,598.6	1,575.3	1,760.2	1,775.7	1,781.2	1,781.8	1,789.9	1,786.3	1,817.0

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

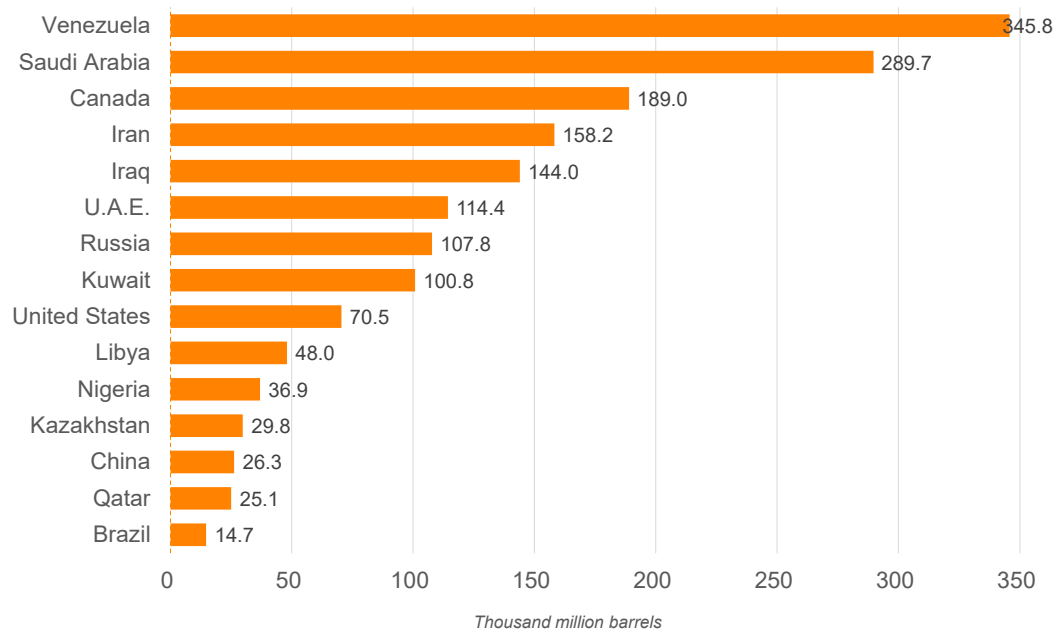
Oil Production (Thousand barrels per day)		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America		17,202	19,087	19,982	19,507	20,433	22,882	24,761	23,852	24,320	25,643
Canada		4,145	4,425	4,536	4,615	4,990	5,408	5,610	5,349	5,593	5,757
Mexico		2,890	2,799	2,597	2,463	2,229	2,073	1,928	1,932	1,954	2,006
United States		10,167	11,863	12,849	12,429	13,214	15,401	17,223	16,571	16,773	17,880
South and Central America		7,489	7,710	7,846	7,530	7,269	6,638	6,326	5,925	5,974	6,416
Argentina		649	659	650	625	595	621	647	609	643	712
Brazil		2,133	2,367	2,547	2,628	2,755	2,713	2,897	3,044	3,002	3,119
Chile		11	9	6	5	6	9	12	9	9	9
Colombia		1,016	997	1,014	906	862	873	893	788	744	761
Peru		166	173	150	134	133	133	140	125	121	118
Trinidad & Tobago		117	114	109	97	99	87	82	76	77	76
Venezuela		2,722	2,672	2,665	2,429	2,133	1,534	982	587	661	762
Other		675	719	705	706	686	668	673	687	717	859
Europe		3,456	3,467	3,620	3,650	3,609	3,587	3,486	3,703	3,503	3,268
Czech Republic		5	7	7	5	7	6	5	6	6	5
France		28	26	23	31	33	21	28	28	35	39
Germany		74	60	66	68	67	67	58	73	62	59
Italy		134	128	131	95	97	109	89	112	110	94
Netherlands		31	38	36	24	24	23	18	20	18	11
Norway		1,838	1,889	1,948	1,995	1,969	1,850	1,758	2,041	2,050	1,899
Poland		30	29	28	21	24	32	30	29	27	25
Portugal		1	1	0	1	0	0	0	0	0	0
Romania		84	82	82	78	74	73	73	71	68	64
Spain		9	6	5	3	2	2	1	1	0	0
Turkey		47	48	48	49	49	55	58	64	67	71
United Kingdom		887	873	972	1,026	1,009	1,116	1,150	1,076	884	833
EU		3,352	3,362	3,515	3,549	3,510	3,485	3,379	3,593	3,392	3,156
Other		288	280	274	254	254	233	218	182	176	168
Former Soviet Union		13,833	13,896	14,036	14,205	14,314	14,573	14,643	13,498	13,767	13,896
Azerbaijan		885	862	849	829	784	793	765	699	704	672
Kazakhstan		1,733	1,728	1,694	1,669	1,848	1,937	1,942	1,836	1,846	1,820
Russia		10,793	10,892	11,084	11,328	11,321	11,494	11,582	10,607	10,867	11,088
Ukraine		69	61	54	50	49	51	55	54	54	11
Uzbekistan		60	56	52	48	46	43	40	38	36	51
Other		293	297	303	281	266	255	259	264	260	254
Middle East		27,953	28,371	29,701	31,426	30,999	31,575	30,149	27,775	28,054	31,066
Iran		3,289	3,429	3,573	4,402	4,742	4,582	3,347	3,038	3,504	3,667
Iraq		3,146	3,435	4,108	4,533	4,603	4,703	4,852	4,188	4,172	4,598
Kuwait		3,109	3,090	3,097	3,194	3,014	3,050	2,987	2,717	2,719	3,013
Qatar		2,002	1,916	1,856	1,839	1,767	1,780	1,714	1,760	1,801	1,801
Saudi Arabia		11,513	11,605	12,045	12,344	11,876	12,345	11,914	11,094	10,974	12,416
United Arab Emirates		3,478	3,552	3,762	3,848	3,740	3,831	4,049	3,737	3,621	4,210
Other		1,416	1,344	1,260	1,266	1,257	1,284	1,286	1,241	1,263	1,361
Africa		8,820	8,390	8,324	7,796	8,205	8,292	8,447	7,027	7,386	7,107
Algeria		1,573	1,585	1,590	1,604	1,530	1,512	1,490	1,346	1,362	1,470
Angola		1,772	1,696	1,796	1,743	1,701	1,543	1,449	1,328	1,178	1,192
Egypt		696	709	696	664	639	649	633	619	593	600
Libya		953	497	437	426	877	1,029	1,159	384	1,225	1,079
Nigeria		2,293	2,330	2,246	1,928	1,986	2,030	2,123	1,879	1,681	1,485
South Africa		120	103	106	103	106	102	104	88	91	83
Other		1,413	1,470	1,453	1,328	1,366	1,427	1,489	1,383	1,256	1,198
Asia-Pacific		8,138	8,174	8,316	7,997	7,779	7,648	7,700	7,510	7,425	7,363
Australia		393	412	371	345	315	344	458	455	444	413
China		4,144	4,181	4,271	3,982	3,892	3,848	3,921	3,970	4,060	4,177
India		883	881	872	852	861	845	803	750	728	704
Indonesia		861	835	817	866	824	798	772	734	683	632
Japan		14	13	12	11	12	10	11	10	10	9
Malaysia		624	653	701	737	729	723	670	604	566	563
New Zealand		41	46	48	41	37	30	30	26	23	21
South Korea		19	20	22	24	25	29	28	34	37	38
Thailand		438	436	452	462	457	446	443	411	380	340
Other		721	697	750	677	627	575	564	516	494	466
OPEC		34,628	34,679	36,060	37,127	36,881	36,881	35,087	30,977	31,708	34,477
Non-OPEC		56,558	58,919	60,336	59,637	60,519	63,370	65,637	63,093	63,754	65,539
Global biofuels		2,102	2,271	2,285	2,364	2,450	2,668	2,840	2,649	2,789	2,947
Processing gains		2,193	2,231	2,286	2,289	2,341	2,386	2,373	2,132	2,244	2,310
World		91,186	93,598	96,396	96,764	97,400	100,251	100,724	94,070	95,462	100,016

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

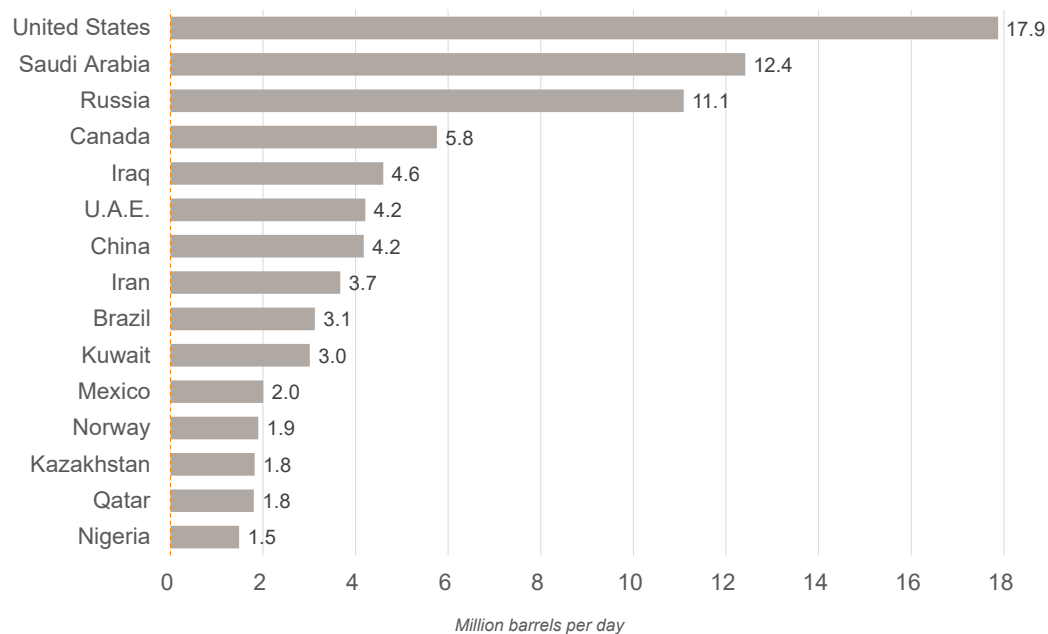
Oil Final Consumption (Thousand barrels/day)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	23,622	23,689	24,133	24,345	24,524	24,993	25,113	22,123	23,959	24,736
Canada	2,418	2,389	2,440	2,465	2,463	2,512	2,546	2,181	2,257	2,377
Mexico	2,090	2,040	2,006	2,053	2,019	1,886	1,984	1,594	1,668	1,929
United States	19,114	19,260	19,687	19,827	20,042	20,595	20,583	18,348	20,034	20,430
South and Central America	6,941	7,053	6,978	6,778	6,732	6,616	6,664	5,737	6,364	6,578
Argentina	693	688	682	677	666	648	625	524	638	694
Brazil	3,129	3,248	3,189	2,999	3,039	2,975	3,073	2,856	3,028	3,089
Chile	339	336	331	352	357	363	362	331	361	370
Colombia	319	326	338	372	346	349	373	323	357	374
Peru	225	224	236	247	262	266	274	212	266	275
Trinidad & Tobago	44	44	46	47	44	37	31	26	27	28
Venezuela	824	806	703	623	567	484	396	214	226	232
Other	1,368	1,381	1,453	1,461	1,451	1,494	1,530	1,251	1,461	1,516
Europe	14,362	14,272	14,602	14,792	15,186	15,073	15,093	13,137	13,964	14,302
Belgium	616	608	625	634	639	685	644	562	623	608
Czech Republic	188	202	196	180	214	217	219	192	212	216
Finland	209	205	205	208	208	208	209	189	184	190
France	1,766	1,746	1,747	1,709	1,737	1,686	1,689	1,428	1,541	1,541
Germany	2,435	2,374	2,368	2,383	2,450	2,327	2,355	2,148	2,235	2,186
Italy	1,260	1,266	1,274	1,237	1,244	1,272	1,255	1,032	1,162	1,195
Netherlands	940	931	928	931	940	924	900	857	853	862
Norway	231	231	240	230	237	243	248	218	235	218
Poland	505	504	541	582	658	680	698	661	697	715
Portugal	234	233	237	237	242	231	249	203	212	233
Romania	187	190	194	204	217	214	228	219	228	230
Spain	1,208	1,200	1,247	1,290	1,297	1,332	1,328	1,089	1,192	1,289
Sweden	305	304	301	316	321	290	295	268	300	289
Turkey	747	763	881	942	991	958	987	921	974	1,019
United Kingdom	1,512	1,518	1,560	1,599	1,619	1,605	1,562	1,211	1,252	1,384
EU	11,229	11,143	11,285	11,362	11,665	11,597	11,620	10,218	10,900	11,054
Other	2,019	1,997	2,058	2,110	2,172	2,201	2,227	1,939	2,064	2,127
Former Soviet Union	4,337	4,622	4,594	4,491	4,657	4,688	4,728	4,590	4,891	4,942
Azerbaijan	97	96	96	97	103	104	112	102	106	110
Kazakhstan	348	258	322	349	334	326	290	314	325	333
Russia	3,151	3,529	3,472	3,308	3,496	3,494	3,568	3,449	3,685	3,782
Ukraine	274	238	220	244	236	243	244	215	239	174
Uzbekistan	79	85	85	89	89	96	96	100	109	114
Other	388	416	399	404	399	425	418	410	427	429
Middle East	8,777	9,110	9,077	8,996	9,115	9,041	8,997	8,256	8,641	9,199
Iran	2,046	2,028	2,003	1,839	1,884	1,958	1,907	1,731	1,804	1,831
Iraq	700	653	606	655	680	705	745	615	703	825
Kuwait	446	451	451	432	438	441	425	401	434	444
Qatar	291	287	287	305	311	311	319	281	279	305
Saudi Arabia	3,483	3,795	3,895	3,870	3,804	3,608	3,632	3,459	3,506	3,729
United Arab Emirates	790	874	880	962	1,020	992	979	915	968	1,066
Other	1,021	1,022	955	933	978	1,026	990	854	947	999
Africa	3,955	4,099	4,134	4,095	4,136	4,152	4,163	3,789	4,079	4,311
Algeria	417	435	447	430	425	437	446	436	451	480
Angola	153	164	163	146	141	139	153	111	150	154
Egypt	788	840	858	829	773	716	652	631	709	818
Libya	252	258	218	199	204	210	208	175	223	234
Nigeria	415	455	415	427	431	456	488	427	476	493
South Africa	630	614	637	607	663	648	621	533	563	568
Other	1,300	1,333	1,396	1,457	1,499	1,546	1,595	1,476	1,507	1,564
Asia-Pacific	30,372	30,926	32,328	33,138	34,352	35,575	36,008	34,211	35,755	35,874
Australia	1,139	1,120	1,106	1,098	1,150	1,168	1,150	991	1,018	1,076
China	10,373	10,798	11,639	12,013	12,574	13,624	14,146	14,283	15,088	14,664
India	3,725	3,905	4,288	4,493	4,762	4,927	4,963	4,590	4,896	5,276
Indonesia	1,735	1,761	1,683	1,594	1,703	1,858	1,833	1,659	1,729	1,774
Japan	4,521	4,286	4,167	4,043	3,954	3,861	3,766	3,366	3,411	3,376
Malaysia	714	731	688	709	731	712	752	670	710	791
New Zealand	155	157	161	168	177	180	185	149	146	151
South Korea	2,328	2,348	2,473	2,603	2,627	2,564	2,596	2,448	2,556	2,547
Taiwan	1,104	1,136	1,162	1,168	1,152	1,157	1,097	1,051	1,095	1,017
Thailand	1,326	1,338	1,363	1,407	1,434	1,472	1,477	1,358	1,341	1,418
Other	3,252	3,346	3,598	3,842	4,088	4,052	4,043	3,646	3,765	3,784
OECD	46,399	46,129	46,888	47,308	47,856	48,086	48,149	42,402	45,265	46,434
Non-OECD	45,966	47,642	48,958	49,308	50,846	52,050	52,616	49,442	52,390	53,507
World	92,365	93,771	95,846	96,616	98,702	100,136	100,765	91,844	97,655	99,941

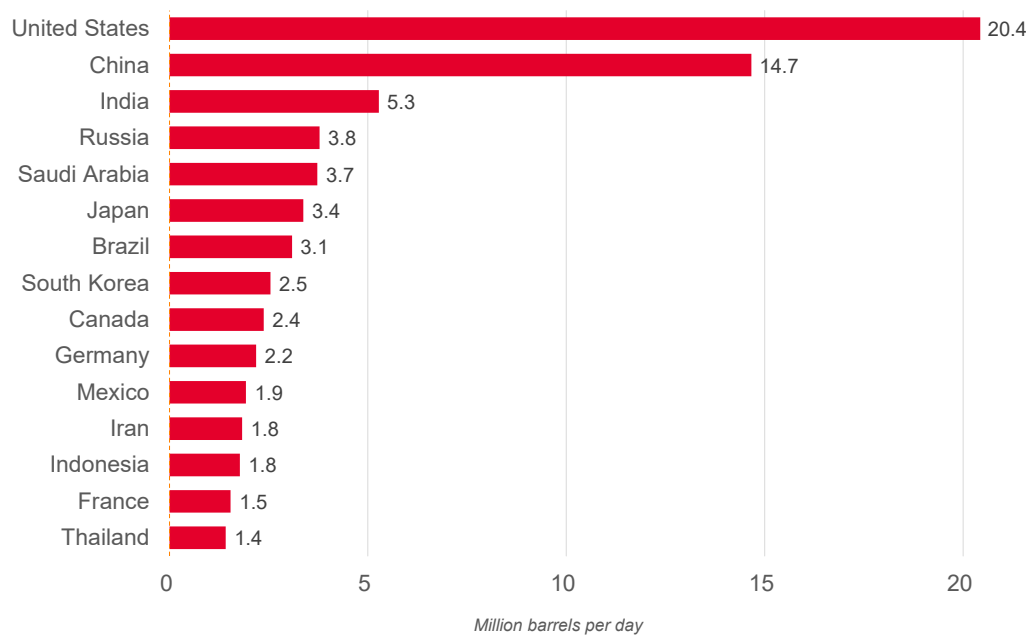
Note: Liquids final consumption including bunker fuel.

Top 15 Countries - Oil Proved Reserves, 2022



Top 15 Countries - Oil Production, 2022



Top 15 Countries - Oil Final Consumption, 2022



Natural Gas

Natural Gas Proved Reserves (Tcm)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	11.9	12.7	11.1	11.4	14.6	15.7	15.8	15.8	15.8	19.8
Canada	2.0	2.0	2.1	2.1	2.0	2.1	2.5	2.5	2.5	2.5
Mexico	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
United States	9.6	10.4	8.7	9.1	12.4	13.4	13.2	13.2	13.2	17.1
South and Central America	7.6	7.6	7.6	7.7	7.5	7.4	7.4	7.4	7.4	7.4
Argentina	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Brazil	0.5	0.5	0.4	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Peru	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3
Trinidad & Tobago	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Venezuela	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Europa	4.6	4.3	4.1	3.8	3.7	3.1	3.0	2.8	2.8	3.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Italy	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Netherlands	1.0	0.9	0.8	0.7	0.7	0.2	0.1	0.1	0.1	0.1
Norway	2.7	2.5	2.5	2.4	2.3	2.2	2.2	2.1	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	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3
EU	1.4	1.3	1.3	1.2	1.2	0.7	0.7	0.7	0.7	0.7
Other	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Former Soviet Union	67.5	68.1	68.8	56.6	69.4	68.8	68.8	67.5	67.5	67.5
Azerbaijan	0.7	0.7	0.7	0.7	1.1	1.4	1.9	1.9	1.9	1.9
Kazakhstan	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Russia	49.3	49.9	50.2	50.7	50.6	49.6	49.1	47.8	47.8	47.8
Turkmenistan	14.0	14.0	14.0	1.4	14.0	14.0	14.0	14.0	14.0	14.0
Ukraine	1.1	1.1	1.1	1.1	1.0	1.1	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	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Middle East	79.9	79.9	79.3	80.3	80.0	80.4	80.8	80.7	80.7	81.0
Iran	34.0	34.0	33.5	33.7	33.8	33.9	34.0	34.0	34.0	33.9
Iraq	3.2	3.2	3.2	3.8	3.7	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	24.7	24.5	24.3	24.1	23.9	23.8	23.8	23.8	23.8	23.8
Saudi Arabia	8.3	8.5	8.6	8.6	8.7	9.1	9.4	9.4	9.4	9.5
United Arab Emirates	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.5
Other	1.9	1.9	1.8	2.2	2.0	1.9	2.0	1.8	1.8	1.8
Africa	14.4	14.4	14.6	15.1	15.3	15.4	15.9	15.9	15.9	16.0
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	0.4	0.4	0.4	0.3	0.3	0.3	0.3
Egypt	2.2	2.2	2.1	2.2	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	5.3	5.5	5.6	5.7	5.8	5.8	5.8	5.9
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	0.7	0.9	0.9	1.1	1.1	1.6	1.6	1.6	1.6
Asia-Pacific	15.7	15.3	15.5	15.0	14.6	13.2	12.6	12.3	12.3	12.4
Australia	3.8	3.2	3.2	3.2	3.2	3.2	2.8	2.7	2.7	2.7
China	2.4	2.6	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.0
India	1.4	1.5	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4
Indonesia	2.9	2.8	2.9	2.8	2.7	1.4	1.2	1.2	1.2	1.1
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaysia	2.6	2.7	2.8	2.5	2.3	2.3	2.2	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	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Other	2.4	2.3	2.2	2.1	2.0	2.0	1.8	1.8	1.8	1.8
OECD	20.5	20.4	18.5	18.9	21.9	22.5	22.2	21.9	21.9	26.9
Non-OECD	181.3	181.9	182.4	170.9	183.2	181.6	182.1	180.5	180.5	180.8
World	201.7	202.4	200.9	189.8	205.1	204.1	204.3	202.5	202.5	207.7

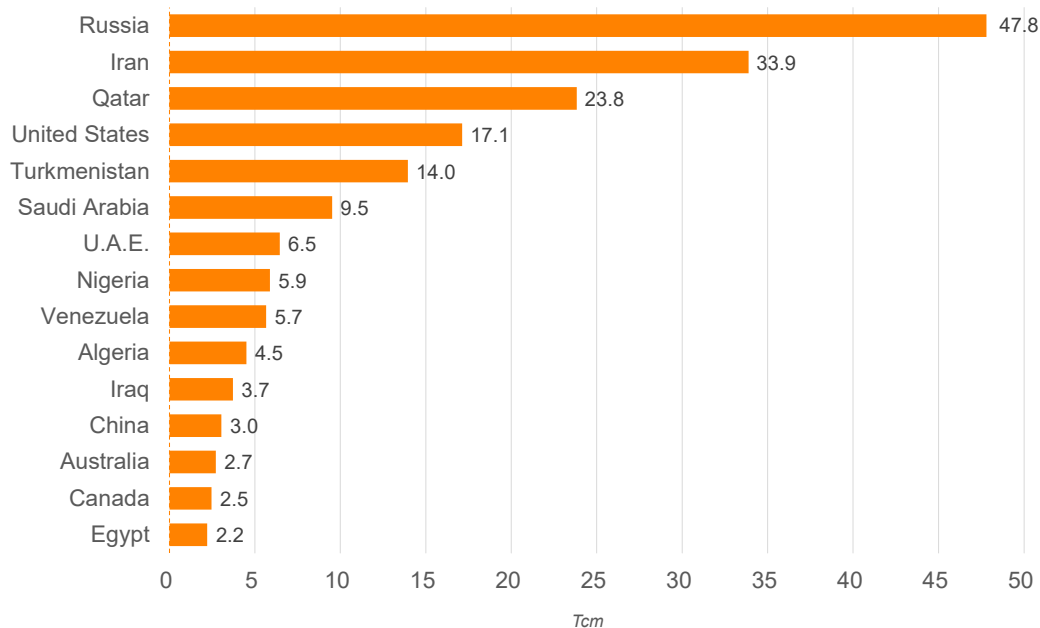
Note: Proved reserves of natural gas on 31/12.

Natural Gas Production (Bcm)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	891.8	945.4	976.0	978.6	998.2	1,102.6	1,184.2	1,165.8	1,206.2	1,264.9
Canada	157.5	164.1	165.0	183.8	190.6	195.5	188.0	183.5	190.6	204.6
Mexico	48.6	47.8	44.5	39.5	34.2	35.4	34.0	33.8	30.9	33.5
United States	685.7	733.4	766.5	755.3	773.3	871.7	962.2	948.5	984.7	1,026.8
South and Central America	159.6	160.4	159.8	158.3	160.5	161.0	161.2	142.1	137.5	141.8
Argentina	38.8	37.9	39.9	41.0	41.7	42.7	44.5	40.8	40.6	43.7
Brazil	22.4	24.0	24.8	25.0	28.3	25.5	26.7	24.8	24.9	23.3
Chile	1.0	0.8	1.0	1.2	1.2	1.3	1.5	1.2	1.2	1.3
Colombia	15.3	14.8	14.0	12.9	13.2	13.8	13.6	13.3	12.4	12.2
Peru	12.9	13.6	13.1	14.6	12.9	12.7	13.4	12.1	11.4	11.7
Trinidad & Tobago	41.2	41.0	38.2	33.3	33.4	36.0	36.5	30.6	25.9	28.3
Venezuela	22.5	22.6	23.0	24.5	24.0	23.7	19.6	14.6	16.3	16.8
Other	5.6	5.7	5.9	5.9	5.8	5.5	5.3	4.7	4.7	4.6
Europa	289.6	272.2	263.6	262.4	263.4	249.5	231.1	213.9	205.6	216.7
Czech Republic	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
France	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Germany	12.2	9.5	8.7	9.0	8.3	6.5	6.0	5.9	5.4	5.1
Italy	7.7	7.2	6.8	5.8	5.5	5.5	4.8	4.0	3.2	3.2
Netherlands	86.9	72.5	55.0	53.1	45.5	39.0	33.3	24.1	21.7	18.4
Norway	113.1	112.8	121.4	120.6	128.7	126.2	119.0	115.9	119.0	128.1
Poland	6.2	6.1	6.1	5.8	5.8	5.7	5.7	5.6	5.6	5.5
Romania	10.9	11.1	11.1	9.8	10.6	10.3	10.0	8.9	8.9	9.2
Spain	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0
Turkey	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4
United Kingdom	37.4	38.8	40.5	41.7	42.1	40.8	39.3	39.3	32.5	37.7
EU	135.2	116.5	97.8	96.3	89.1	79.0	69.7	55.7	51.1	47.2
Other	14.1	13.6	13.3	15.8	16.4	14.8	12.2	9.4	8.7	9.0
Former Soviet Union	880.5	851.1	841.7	846.9	903.0	965.2	992.9	932.8	1,013.3	902.0
Azerbaijan	18.3	19.3	19.2	18.7	18.2	19.2	24.5	26.5	32.6	29.5
Kazakhstan	33.0	33.6	29.1	31.1	35.6	38.7	32.7	29.9	26.0	22.0
Russia	674.5	646.6	638.0	644.2	695.1	738.2	766.1	722.0	792.8	699.0
Turkmenistan	78.4	80.1	83.7	79.8	80.5	84.4	86.7	82.7	87.7	80.2
Ukraine	21.0	19.7	19.5	19.7	20.0	20.5	20.1	19.8	18.2	16.8
Uzbekistan	52.3	48.6	49.0	50.4	50.8	61.6	60.5	49.6	53.7	51.5
Other	3.1	3.2	3.2	3.0	2.9	2.6	2.3	2.2	2.3	2.9
Middle East	556.9	573.1	590.5	612.6	629.7	639.6	658.2	662.7	683.1	704.9
Iran	156.8	174.6	184.1	199.8	218.2	227.9	232.7	232.7	239.6	243.6
Iraq	7.0	6.8	7.0	7.6	10.1	10.6	11.2	10.9	14.1	14.5
Kuwait	16.3	15.0	16.9	17.1	16.9	17.9	19.6	21.5	21.2	22.4
Qatar	164.2	161.6	165.0	167.1	166.5	165.6	167.6	166.7	168.2	169.6
Saudi Arabia	82.0	85.1	87.3	90.8	95.5	96.8	98.2	98.8	100.1	104.9
United Arab Emirates	54.6	54.2	60.2	61.9	54.1	48.0	55.1	55.1	54.5	53.2
Other	76.1	75.7	70.1	68.3	68.4	72.8	74.0	77.1	85.3	96.7
Africa	207.8	209.2	206.6	221.2	239.2	250.4	251.3	239.5	270.8	257.9
Algeria	0.9	0.7	0.8	1.7	5.8	6.5	6.8	7.6	6.1	6.8
Angola	81.0	82.6	84.0	94.7	96.2	97.2	90.0	84.8	105.3	101.7
Egypt	48.1	43.1	38.3	42.6	53.0	62.1	68.9	61.8	71.6	68.2
Libya	17.0	16.6	15.5	15.6	14.3	13.9	14.2	13.0	15.1	14.0
Nigeria	37.2	42.4	43.7	42.2	45.1	45.7	46.2	46.5	44.9	41.4
South Africa	1.3	1.0	1.2	1.1	0.9	1.0	1.2	1.1	1.1	1.0
Other	22.3	22.8	23.2	23.3	24.0	24.0	24.1	24.8	26.8	24.8
Asia-Pacific	508.5	527.6	532.9	550.9	584.0	610.1	645.3	647.6	661.0	686.7
Australia	63.0	64.8	68.1	82.9	105.8	120.9	145.0	156.5	151.1	162.1
China	120.9	130.2	134.6	136.9	148.0	160.2	176.2	192.5	206.6	219.0
India	34.6	32.7	31.1	30.9	31.7	32.1	30.3	27.8	33.2	33.7
Indonesia	76.5	75.3	75.0	74.0	71.6	71.7	66.6	58.7	58.4	56.9
Japan	2.9	2.7	2.7	2.8	2.9	2.5	2.5	2.3	2.3	2.1
Malaysia	69.0	69.7	68.6	67.8	74.8	70.1	72.8	67.3	71.9	76.4
New Zealand	4.8	5.2	5.0	5.1	5.0	4.4	4.6	4.5	3.9	3.7
South Korea	0.5	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.0
Thailand	36.3	37.1	33.0	32.3	30.2	29.2	30.8	27.7	26.0	21.5
Other	100.2	109.6	114.7	118.2	113.6	118.7	116.4	110.3	107.6	111.2
OECD	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	1,593.6
Non-OECD	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	2,489.6
World	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	4,083.2

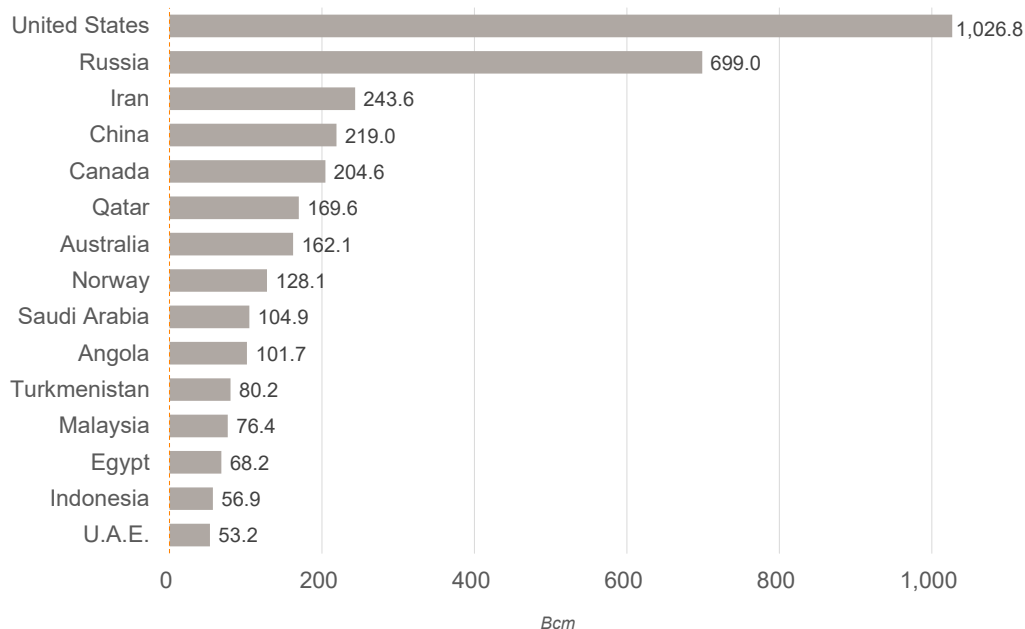
Natural Gas Demand (Bcm)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	923.6	943.6	962.4	973.4	973.3	1,069.3	1,091.2	1,059.6	1,068.7	1,121.0
Canada	111.4	118.1	117.5	116.5	122.0	134.8	132.5	128.9	134.0	140.0
Mexico	72.9	75.0	77.8	80.3	81.5	78.5	74.3	69.6	70.4	69.0
United States	739.4	750.5	767.1	776.7	769.8	856.0	884.4	861.1	864.2	912.0
South and Central America	161.7	166.3	168.0	161.6	162.2	162.8	157.7	141.8	153.7	144.2
Argentina	49.4	49.5	50.7	51.2	51.9	52.0	51.1	47.8	48.0	49.0
Brazil	39.8	43.6	43.2	36.9	39.3	36.4	36.6	34.5	42.2	32.4
Chile	4.9	4.1	4.4	4.8	5.0	5.3	6.3	5.9	6.5	7.1
Colombia	10.7	11.0	11.3	11.8	10.8	11.3	9.6	10.7	9.4	9.3
Peru	6.5	8.1	7.9	8.3	7.3	7.5	7.9	6.6	7.5	7.0
Trinidad & Tobago	21.0	20.6	20.3	18.5	17.9	18.5	18.9	16.3	16.8	16.5
Venezuela	22.5	22.3	23.0	22.7	22.8	23.8	18.1	12.0	13.4	13.8
Other	6.9	7.2	7.1	7.3	7.2	8.0	9.2	8.1	9.9	9.2
Europe	529.2	483.3	499.1	527.7	554.2	542.5	548.3	533.4	568.4	498.2
Belgium	18.2	16.0	17.2	17.4	17.8	18.4	18.5	18.4	18.5	15.8
Czech Republic	8.5	7.5	7.9	8.5	8.7	8.3	8.7	8.8	9.5	7.8
Finland	3.5	3.1	2.7	2.5	2.4	2.6	2.6	2.6	2.6	2.6
France	45.0	37.5	40.0	43.8	43.7	41.7	42.3	39.3	42.0	38.0
Germany	87.6	79.2	81.4	89.2	95.0	94.7	95.6	92.9	98.3	83.2
Italy	70.1	61.9	67.5	70.9	75.2	72.7	74.5	71.3	76.4	68.8
Netherlands	47.0	41.5	40.7	42.3	43.7	42.8	44.8	43.5	42.1	32.9
Norway	5.7	6.1	6.4	6.2	6.3	6.2	6.3	5.9	5.4	5.2
Poland	18.3	17.8	18.5	19.2	20.1	20.2	20.8	21.4	22.9	19.0
Portugal	4.3	4.1	4.7	5.1	6.3	5.7	6.1	6.0	5.8	5.5
Romania	12.6	12.0	11.3	11.3	11.8	11.8	11.0	11.4	12.0	10.2
Spain	29.6	27.2	28.2	28.8	31.1	31.0	35.4	31.9	33.8	32.5
Sweden	1.1	0.9	1.0	0.9	1.1	1.1	1.1	1.0	0.9	0.6
Turkey	45.9	48.7	48.1	46.5	54.0	49.7	45.3	48.3	59.6	51.0
United Kingdom	77.1	70.7	72.7	81.5	79.3	79.3	78.5	73.8	78.1	72.2
EU	394.0	352.0	365.8	387.1	407.7	400.5	411.5	398.8	417.7	362.7
Other	54.7	49.0	50.9	53.8	57.8	56.3	57.1	57.1	60.6	52.8
Former Soviet Union	650.5	625.5	595.4	595.3	617.1	654.7	667.2	637.7	706.8	679.0
Azerbaijan	10.7	11.5	11.4	11.2	10.8	11.0	12.5	12.6	13.1	12.9
Kazakhstan	27.0	15.2	14.8	15.1	16.4	16.5	15.5	17.3	21.2	23.3
Russia	465.9	464.6	445.5	444.1	463.0	498.5	510.1	481.3	539.4	524.0
Turkmenistan	21.5	20.4	21.2	21.2	21.2	21.2	22.1	23.0	24.0	23.5
Ukraine	49.5	41.0	33.1	32.2	31.0	31.1	28.4	29.5	27.6	20.7
Uzbekistan	48.3	44.7	42.5	44.8	47.5	47.6	49.3	46.2	52.0	47.1
Other	27.5	28.1	27.1	26.7	27.2	28.8	29.2	27.8	29.5	27.5
Middle East	425.0	452.3	481.1	501.5	514.2	517.6	533.0	536.9	550.3	561.3
Iran	152.9	172.5	184.1	196.8	209.1	211.9	209.5	212.2	219.7	222.0
Iraq	7.0	6.8	7.0	7.6	11.0	13.8	17.6	18.3	19.0	20.4
Kuwait	18.5	18.3	20.9	22.1	22.4	23.7	25.5	25.7	27.2	29.1
Qatar	44.5	48.5	50.2	48.9	47.2	49.7	51.3	50.5	50.7	51.1
Saudi Arabia	82.0	85.1	87.3	90.8	95.5	96.8	98.2	98.8	100.1	65.1
United Arab Emirates	67.8	67.3	74.4	75.3	68.5	60.2	67.9	69.1	67.6	65.1
Other	52.4	53.9	57.3	60.0	60.6	61.5	62.9	62.4	65.8	108.6
Africa	125.1	126.4	133.7	140.2	151.2	157.2	158.3	157.3	171.2	167.9
Algeria	34.6	37.8	40.6	40.7	42.1	45.7	47.1	45.5	50.5	62.4
Angola	0.4	0.3	0.8	0.8	0.8	1.2	1.3	1.3	1.3	1.3
Egypt	46.0	42.7	45.0	50.8	60.6	61.8	59.5	60.6	63.9	62.3
Libya	9.5	8.5	8.5	8.5	8.5	8.4	8.8	7.7	8.4	8.1
Nigeria	15.8	18.0	18.4	18.8	17.4	18.2	18.3	18.4	21.7	21.4
South Africa	5.0	4.8	5.3	5.2	5.0	5.2	5.3	5.2	5.5	5.4
Other	13.8	14.3	15.1	15.5	16.6	16.8	18.0	18.6	19.9	6.9
Asia-Pacific	675.8	696.6	701.5	733.0	769.9	814.9	837.2	844.9	881.1	869.2
Australia	36.1	36.8	37.2	38.2	39.4	40.7	41.5	42.6	41.0	42.6
China	167.5	184.5	191.8	207.9	237.8	278.5	302.7	321.8	362.0	357.7
India	51.5	51.6	54.6	58.4	61.6	61.3	65.3	62.7	64.5	60.6
Indonesia	42.1	43.3	43.2	42.3	40.4	42.3	42.2	39.2	38.7	36.1
Japan	117.7	118.6	113.0	115.5	112.5	109.7	105.1	104.6	93.5	92.1
Malaysia	45.0	45.4	44.4	42.3	46.4	45.9	46.5	43.2	44.6	47.4
New Zealand	4.8	5.4	5.1	5.1	5.2	4.6	4.7	4.5	3.8	49.6
South Korea	52.6	47.4	44.3	47.0	48.8	54.1	52.2	54.4	60.1	39.7
Thailand	48.4	48.5	48.2	47.3	44.7	45.9	48.3	41.8	42.1	47.1
Other	110.2	115.2	119.7	129.0	133.4	131.9	128.6	130.2	130.9	96.5
OECD	1,650.9	1,623.7	1,650.8	1,698.0	1,723.7	1,811.0	1,835.1	1,790.7	1,826.4	1,813.1
Non-OECD	1,840.1	1,870.2	1,890.4	1,934.6	2,018.4	2,108.0	2,157.6	2,120.9	2,273.7	2,227.7
World	3,491.0	3,494.0	3,541.3	3,632.6	3,742.1	3,919.1	3,992.7	3,911.6	4,100.2	4,040.8

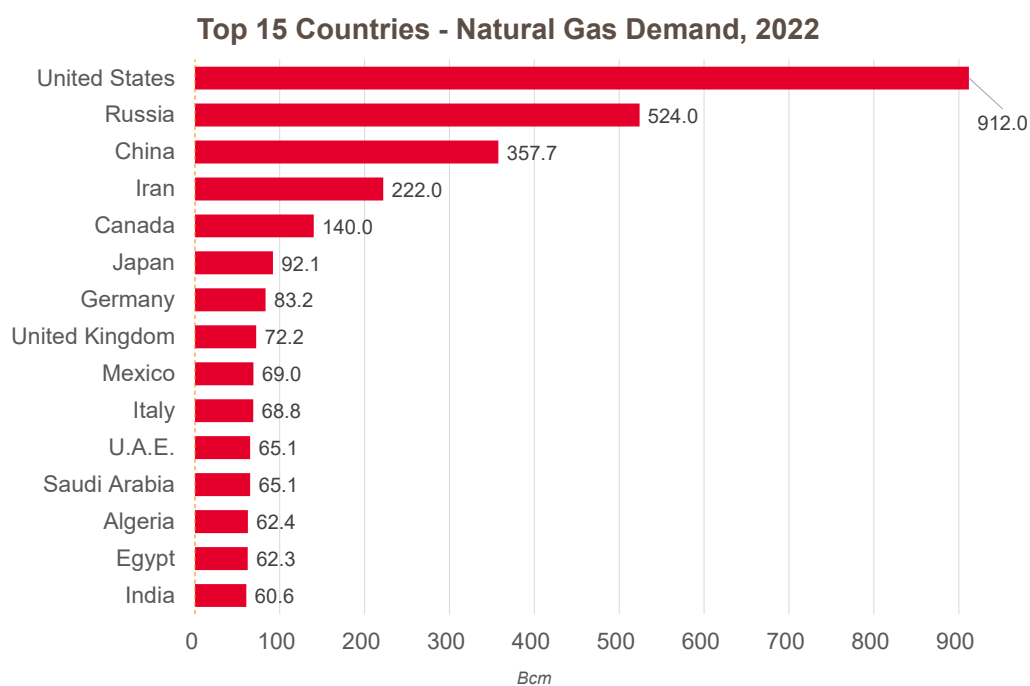
Note: Natural gas primary demand including power generation feedstock.

Top 15 Countries - Natural Gas Proved Reserves, 2022



Top 15 Countries - Natural Gas Production, 2022



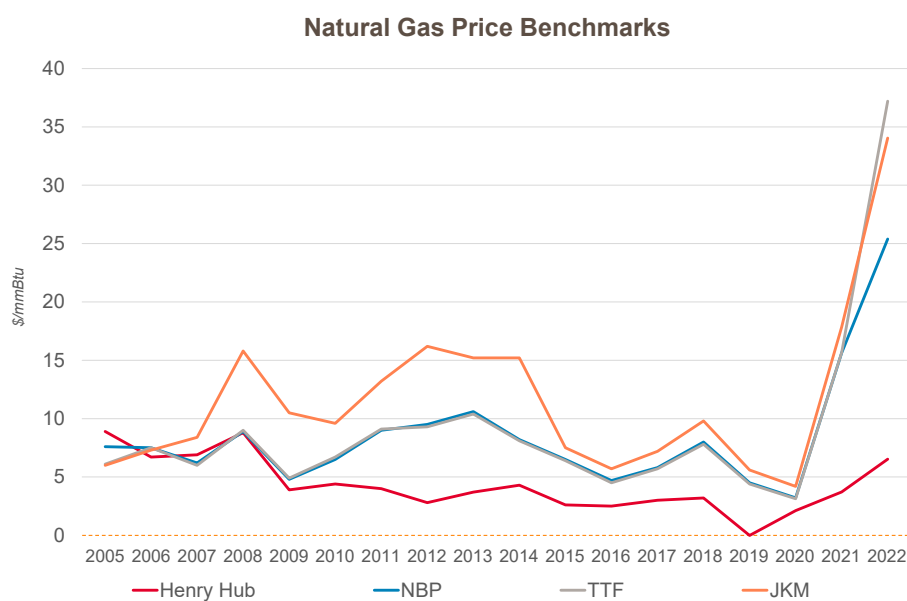
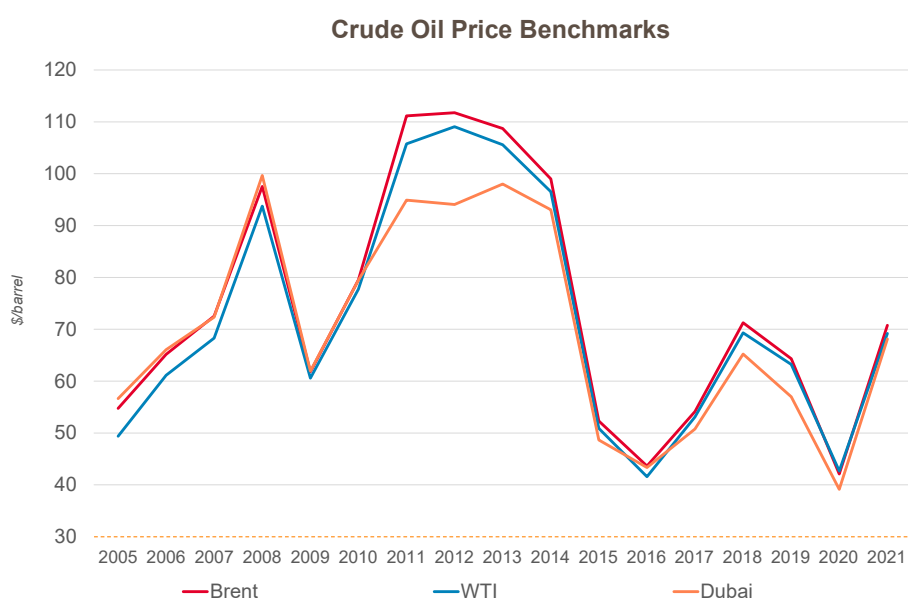




Oil and
Natural Gas
prices

Oil and Natural Gas Prices	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Crude oil (\$ per barrel)										
Brent	108.7	99.0	52.3	43.7	54.2	71.3	64.3	42.1	70.8	101.1
WTI	105.6	96.5	50.9	41.6	53.1	69.3	63.2	42.7	69.2	95.5
Dubai	98.0	93.0	48.7	43.3	50.8	65.2	57.0	39.2	68.1	95.0
Natural gas (dollar per million Btu)										
Henry Hub (HH)	3.7	4.3	2.6	2.5	3.0	3.2	2.6	2.1	3.7	6.5
National Balancing Point (NBP)	10.6	8.2	6.5	4.7	5.8	8.0	4.5	3.2	15.6	25.4
Japan Korea Marker (JKM)	15.2	15.2	7.5	5.7	7.2	9.8	5.6	4.2	17.9	34.1
Title Transfer Facility (TTF)	10.4	8.1	6.4	4.5	5.7	7.8	4.4	3.1	15.7	37.2

Source: Thomson Reuters





Power
Generation

Total Power Generation (TWh)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	5,261	5,301	5,286	5,309	5,272	5,471	5,389	5,226	5,340	5,501
Canada	658	659	658	666	663	658	653	652	644	657
Mexico	297	301	311	321	322	358	344	315	326	334
United States	4,306	4,340	4,317	4,322	4,286	4,455	4,392	4,260	4,371	4,510
South and Central America	1,236	1,230	1,271	1,273	1,280	1,299	1,301	1,274	1,338	1,360
Argentina	139	139	145	147	146	147	140	144	151	150
Brazil	571	590	581	579	589	601	626	621	656	668
Chile	73	71	75	79	79	82	85	84	88	90
Colombia	74	71	79	77	79	80	80	80	86	90
Peru	44	46	48	52	53	55	57	53	57	n.d.
Trinidad & Tobago	10	9	10	9	9	9	9	9	9	n.d.
Venezuela	123	103	123	108	104	100	83	74	76	77
Other	202	201	209	222	220	224	221	209	214	n.d.
Europe	3,823	3,753	3,815	3,852	3,900	3,898	3,839	3,729	3,879	3,770
Belgium	83	73	70	86	87	75	94	89	100	95
Czech Republic	87	86	84	83	87	88	87	82	85	85
Finland	71	68	69	69	68	70	69	69	72	n.d.
France	582	573	579	564	562	582	571	532	555	473
Germany	639	628	648	650	654	640	607	575	588	578
Italy	290	280	283	290	296	290	294	281	289	285
Netherlands	102	103	110	115	117	114	121	123	122	122
Norway	134	142	145	149	149	147	135	155	158	147
Poland	165	159	165	167	170	170	164	158	180	179
Portugal	52	53	52	60	59	60	53	53	51	49
Romania	59	66	66	65	64	65	60	56	59	56
Spain	286	279	281	275	276	274	273	263	274	292
Sweden	153	154	162	156	164	163	168	164	172	173
Turkey	240	252	262	274	297	305	304	307	335	326
United Kingdom	358	338	340	339	338	333	324	311	308	325
EU	2,921	2,861	2,907	2,928	2,961	2,943	2,907	2,789	2,911	2,806
Other	522	501	499	510	511	521	515	510	530	n.d.
Former Soviet Union	1,538	1,532	1,517	1,545	1,554	1,593	1,596	1,563	1,658	1,617
Azerbaijan	23	25	25	25	24	25	26	26	28	n.d.
Kazakhstan	103	95	92	95	103	108	107	111	118	116
Russia	1,059	1,064	1,068	1,091	1,094	1,115	1,121	1,090	1,158	1,165
Ukraine	194	183	164	165	156	160	154	148	156	113
Uzbekistan	55	56	57	59	61	63	64	67	71	70
Other	104	109	111	111	115	122	124	122	128	n.d.
Middle East	1,013	1,082	1,134	1,172	1,225	1,239	1,269	1,277	1,331	1,389
Iran	262	275	281	289	308	309	322	325	345	353
Iraq	58	68	69	80	87	83	89	91	93	101
Kuwait	61	65	68	70	73	74	75	75	81	83
Qatar	35	39	41	42	46	48	50	49	52	50
Saudi Arabia	303	337	360	369	379	389	388	395	408	433
United Arab Emirates	110	117	127	130	135	136	138	139	151	156
Other	183	182	187	192	197	200	207	202	202	214
Africa	742	768	792	803	827	849	864	854	895	894
Algeria	60	64	69	71	76	77	82	79	85	92
Angola	8	9	10	10	11	13	15	16	16	n.d.
Egypt	168	175	186	189	197	200	197	205	214	218
Libya	38	38	38	31	33	34	35	29	32	n.d.
Nigeria	29	32	33	37	32	33	33	32	36	34
South Africa	256	253	250	253	255	256	253	240	244	235
Other	183	196	208	211	223	236	250	253	267	n.d.
Asia-Pacific	9,874	10,391	10,534	11,088	11,750	12,367	12,799	12,926	13,929	14,499
Australia	249	247	251	257	258	261	264	265	266	271
China	5,447	5,817	5,854	6,200	6,715	7,143	7,504	7,765	8,519	8,833
India	1,184	1,289	1,357	1,432	1,509	1,608	1,647	1,533	1,643	1,802
Indonesia	216	228	234	248	255	284	295	292	309	334
Japan	1,104	1,076	1,059	1,071	1,081	1,068	1,041	1,018	1,056	1,063
Malaysia	138	147	150	157	164	171	178	183	187	194
New Zealand	44	44	45	44	45	45	45	45	45	45
South Korea	542	551	553	563	567	590	581	579	606	625
Taiwan	252	260	258	264	270	276	274	280	291	288
Thailand	170	172	177	188	182	182	191	179	180	186
Other	527	559	596	665	705	740	778	787	826	860
OECD	10,943	10,891	10,929	11,022	11,057	11,261	11,105	10,814	11,131	11,225
Non-OECD	12,545	13,166	13,419	14,020	14,751	15,455	15,952	16,035	17,239	17,805
World	23,488	24,057	24,348	25,042	25,808	26,716	27,057	26,849	28,370	29,029

Renewables in Power Generation (%)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	19.4%	19.8%	20.0%	21.5%	23.4%	22.9%	23.6%	25.8%	26.2%	27.7%
Canada	64.1%	63.2%	64.0%	64.9%	66.6%	66.0%	65.9%	67.1%	67.1%	68.8%
Mexico	13.3%	17.5%	15.3%	15.3%	16.0%	15.2%	16.0%	20.0%	22.7%	22.0%
United States	13.0%	13.4%	13.6%	15.3%	17.3%	17.2%	17.9%	19.9%	20.5%	22.2%
South and Central America	63.0%	61.2%	60.7%	63.5%	65.1%	66.8%	66.8%	69.6%	66.3%	75.1%
Argentina	25.6%	25.1%	23.8%	21.8%	23.5%	24.2%	25.3%	26.0%	24.8%	30.9%
Brazil	76.8%	73.3%	74.1%	80.5%	79.3%	82.4%	82.3%	84.2%	77.4%	89.2%
Chile	35.7%	42.9%	43.6%	43.3%	43.9%	46.2%	46.6%	48.7%	45.5%	54.6%
Colombia	69.4%	69.4%	63.6%	65.9%	79.3%	76.9%	70.1%	65.8%	73.4%	75.1%
Peru	53.9%	52.4%	52.7%	50.4%	58.6%	60.8%	60.4%	63.8%	61.3%	n.d.
Trinidad & Tobago	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	n.d.
Venezuela	67.9%	62.3%	61.1%	58.4%	58.4%	58.4%	60.2%	84.3%	82.8%	82.2%
Europe	30.9%	32.3%	33.6%	34.0%	33.8%	36.3%	38.6%	42.8%	41.3%	43.0%
Belgium	15.6%	18.5%	22.3%	18.0%	19.6%	24.3%	21.7%	27.4%	23.6%	26.1%
Czech Republic	11.8%	11.9%	12.8%	12.7%	12.4%	11.9%	12.9%	14.3%	14.0%	14.1%
Finland	36.0%	38.6%	44.5%	44.2%	46.6%	45.7%	46.4%	51.7%	52.7%	n.d.
France	18.0%	17.4%	16.7%	18.4%	17.4%	20.5%	20.7%	24.4%	22.8%	25.5%
Germany	24.8%	26.8%	30.0%	30.0%	34.0%	35.6%	40.6%	44.8%	40.1%	44.4%
Italy	39.3%	43.7%	39.0%	37.9%	35.7%	40.1%	40.1%	42.4%	41.0%	36.1%
Netherlands	11.9%	11.3%	12.4%	12.8%	14.9%	16.5%	18.8%	26.6%	33.1%	39.7%
Norway	97.7%	97.7%	97.7%	97.8%	97.8%	97.8%	97.7%	98.4%	99.1%	98.5%
Poland	10.7%	12.8%	14.1%	14.0%	14.4%	13.0%	16.0%	18.4%	17.4%	21.1%
Portugal	59.2%	61.4%	48.7%	55.5%	40.9%	51.4%	54.2%	59.6%	64.9%	61.0%
Romania	34.8%	42.0%	40.1%	42.2%	38.3%	41.0%	42.0%	44.6%	44.9%	42.9%
Spain	40.5%	40.9%	35.7%	39.3%	32.9%	38.8%	37.8%	44.5%	47.0%	43.1%
Sweden	54.1%	55.9%	63.3%	57.2%	57.9%	55.8%	58.8%	68.5%	67.4%	68.5%
Turkey	28.8%	20.9%	32.0%	32.9%	29.3%	32.1%	43.5%	41.9%	35.4%	41.9%
United Kingdom	15.7%	19.9%	25.6%	25.3%	30.1%	33.8%	37.5%	43.8%	40.8%	43.3%
EU	28.6%	30.3%	30.4%	30.7%	30.5%	32.8%	34.5%	39.0%	37.8%	39.2%
Former Soviet Union	16.6%	16.0%	15.6%	16.8%	17.1%	17.2%	17.4%	19.1%	18.7%	17.9%
Azerbaijan	6.7%	5.6%	7.0%	8.4%	7.8%	7.8%	7.0%	5.1%	5.5%	n.d.
Kazakhstan	7.5%	8.8%	10.4%	12.7%	11.4%	10.5%	10.8%	11.0%	11.0%	11.8%
Russia	17.3%	16.7%	16.0%	17.2%	17.2%	17.4%	17.7%	20.0%	19.2%	17.7%
Ukraine	8.1%	6.0%	5.3%	6.6%	8.0%	9.1%	8.6%	11.8%	14.1%	16.6%
Uzbekistan	10.4%	10.9%	11.9%	11.7%	13.0%	9.4%	10.2%	7.5%	7.8%	8.7%
Middle East	2.4%	2.0%	1.7%	2.1%	1.9%	2.1%	2.8%	3.1%	2.9%	3.2%
Iran	5.7%	5.2%	5.1%	5.8%	5.0%	5.4%	5.2%	5.2%	3.3%	3.6%
Iraq	8.2%	4.4%	3.8%	4.3%	2.6%	2.3%	5.7%	5.4%	4.3%	4.0%
Kuwait	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.3%	0.3%	0.3%
Qatar	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Saudi Arabia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.7%	1.1%
United Arab Emirates	0.1%	0.3%	0.2%	0.2%	0.6%	1.0%	2.7%	3.9%	4.4%	4.5%
Africa	17.3%	18.0%	18.0%	18.1%	18.7%	20.1%	21.4%	22.4%	22.7%	25.0%
Algeria	0.6%	0.4%	0.3%	0.5%	0.8%	1.0%	1.0%	0.9%	0.8%	0.7%
Angola	58.0%	53.2%	53.2%	56.1%	71.4%	76.2%	70.3%	73.0%	72.5%	n.d.
Egypt	8.8%	8.9%	8.5%	8.3%	7.9%	8.9%	12.0%	12.2%	11.5%	12.6%
Libya	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Nigeria	18.5%	16.7%	19.5%	22.4%	24.1%	23.1%	25.6%	23.8%	29.0%	27.8%
South Africa	1.7%	2.5%	3.5%	4.4%	5.7%	6.5%	7.0%	7.3%	8.8%	10.4%
Asia-Pacific	17.8%	19.0%	19.8%	20.9%	21.6%	22.5%	23.6%	25.1%	25.9%	27.1%
Australia	13.2%	14.6%	13.3%	14.6%	15.7%	17.1%	19.7%	22.6%	26.7%	30.7%
China	20.5%	22.4%	24.1%	25.0%	25.2%	26.1%	27.3%	28.5%	29.1%	30.6%
India	17.6%	16.5%	15.3%	16.1%	16.9%	17.9%	19.8%	21.1%	21.4%	21.9%
Indonesia	12.3%	11.5%	10.7%	12.6%	12.7%	17.4%	16.8%	18.8%	18.3%	18.7%
Japan	10.9%	12.4%	14.2%	14.7%	16.2%	17.1%	18.6%	20.3%	21.0%	21.6%
Malaysia	8.6%	9.7%	10.0%	13.5%	17.0%	16.6%	16.1%	16.2%	17.6%	16.1%
New Zealand	74.7%	79.5%	80.5%	84.6%	81.5%	83.7%	82.0%	80.4%	81.4%	86.6%
South Korea	2.4%	2.5%	2.6%	3.5%	4.0%	4.6%	5.3%	6.4%	7.0%	8.1%
Taiwan	4.9%	4.4%	4.6%	5.4%	5.2%	5.2%	6.1%	6.0%	6.5%	8.8%
Thailand	8.1%	8.2%	7.9%	13.5%	14.2%	16.6%	17.7%	16.5%	17.3%	17.9%
OECD	21.5%	22.3%	23.2%	24.1%	25.3%	25.9%	27.3%	30.1%	29.9%	31.4%
Non-OECD	22.2%	22.4%	22.8%	23.9%	24.2%	25.1%	25.7%	27.1%	27.4%	28.9%
World	21.9%	22.4%	23.0%	24.0%	24.7%	25.4%	26.4%	28.3%	28.4%	29.8%



CO₂ Emissions from Fossil Fuels

Total CO₂ Emissions (Million tonnes of carbon dioxide)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	6,461	6,498	6,368	6,267	6,211	6,319	6,220	5,548	5,929	6,053
Canada	624	623	622	618	627	640	624	576	599	617
Mexico	490	479	493	503	495	466	473	394	433	479
United States	5,347	5,396	5,252	5,146	5,089	5,213	5,123	4,578	4,897	4,958
South and Central America	1,377	1,404	1,388	1,341	1,314	1,282	1,257	1,125	1,239	1,242
Argentina	189	185	192	189	186	183	204	177	177	177
Brazil	533	562	528	488	497	471	473	448	507	475
Chile	85	78	83	90	90	91	97	89	95	91
Colombia	80	82	84	88	80	83	84	83	86	87
Peru	50	53	54	57	54	55	57	47	50	n.d.
Trinidad & Tobago	44	43	43	39	38	38	39	34	34	n.d.
Venezuela	196	195	183	169	154	139	108	67	74	86
Other	202	205	221	221	215	222	226	197	217	n.d.
Europe	4,256	4,086	4,140	4,154	4,217	4,133	3,952	3,641	3,907	3,828
Belgium	112	105	110	109	108	109	108	100	105	99
Czech Republic	111	109	109	110	112	111	106	97	102	105
Finland	55	51	47	51	48	49	46	41	41	n.d.
France	372	340	344	345	351	340	332	295	326	312
Germany	830	793	792	801	784	755	707	652	693	677
Italy	365	348	355	351	347	342	334	297	330	329
Netherlands	184	177	183	184	183	177	171	155	163	146
Norway	49	49	51	49	49	49	47	45	44	43
Poland	329	317	322	332	346	345	327	311	342	326
Portugal	51	50	54	53	58	53	49	43	41	44
Romania	78	78	78	76	79	80	78	74	81	76
Spain	262	262	277	269	286	281	261	220	237	250
Sweden	46	45	45	45	45	42	41	39	42	42
Turkey	343	366	379	402	445	442	425	433	470	457
United Kingdom	477	436	423	401	386	379	363	324	349	340
EU	3,242	3,107	3,152	3,162	3,197	3,125	2,979	2,704	2,908	2,855
Other	591	561	571	576	590	578	557	515	540	n.d.
Former Soviet Union	2,699	2,578	2,503	2,506	2,557	2,668	2,702	2,606	2,838	2,770
Azerbaijan	31	33	33	33	33	34	37	36	37	n.d.
Kazakhstan	278	232	204	219	232	234	221	230	243	251
Russia	1,802	1,779	1,779	1,759	1,811	1,897	1,949	1,860	2,049	2,056
Ukraine	314	266	224	225	204	216	203	195	201	140
Uzbekistan	113	106	101	107	112	115	119	117	127	119
Other	161	164	163	164	166	173	173	169	179	n.d.
Middle East	1,944	2,008	2,030	2,047	2,075	2,056	2,079	2,008	2,085	2,199
Iran	639	662	650	655	683	696	686	672	698	709
Iraq	138	131	129	138	152	161	175	155	177	196
Kuwait	88	87	91	93	92	94	95	93	107	116
Qatar	89	96	99	101	102	101	104	103	104	106
Saudi Arabia	527	564	587	586	577	551	553	538	552	609
United Arab Emirates	189	191	201	207	198	181	194	197	193	196
Other	275	277	272	267	270	272	271	250	253	266
Africa	1,294	1,341	1,333	1,348	1,387	1,418	1,438	1,337	1,406	1,432
Algeria	133	144	152	149	150	161	166	156	170	173
Angola	42	44	44	42	34	31	34	28	29	n.d.
Egypt	225	226	231	242	260	259	238	233	255	254
Libya	61	65	58	53	59	61	61	53	56	n.a.
Nigeria	114	120	113	115	115	120	126	117	130	132
South Africa	444	454	430	431	442	445	453	403	397	378
Other	275	289	306	317	328	341	360	347	371	n.d.
Asia-Pacific	17,671	17,964	17,875	18,027	18,417	18,881	19,036	18,767	19,710	20,558
Australia	417	407	414	425	426	426	419	400	389	390
China	11,168	11,254	11,093	11,119	11,234	11,487	11,630	11,796	12,439	12,568
India	2,061	2,235	2,256	2,301	2,433	2,570	2,528	2,307	2,545	2,768
Indonesia	483	519	526	518	552	607	654	609	642	823
Japan	1,322	1,272	1,232	1,218	1,202	1,164	1,124	1,065	1,089	1,087
Malaysia	237	245	245	243	257	260	264	261	268	281
New Zealand	35	36	36	35	36	36	37	34	34	33
South Korea	679	676	691	707	717	718	701	655	661	642
Taiwan	273	279	278	282	290	287	275	274	271	281
Thailand	281	277	283	279	278	276	286	275	263	267
Other	714	764	821	899	989	1,050	1,117	1,092	1,107	1,418
OECD	13,056	12,864	12,765	12,696	12,693	12,678	12,347	11,241	11,897	11,926
Non-OECD	22,645	23,016	22,871	22,994	23,484	24,078	24,338	23,791	25,218	26,155
World	35,701	35,880	35,636	35,690	36,177	36,756	36,684	35,031	37,115	38,081

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

Oil CO₂ Emissions (Million tonnes of carbon dioxide)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	2,542	2,544	2,589	2,601	2,594	2,630	2,610	2,247	2,470	2,548
Canada	277	272	277	275	281	287	278	242	255	270
Mexico	259	248	245	254	247	227	243	191	231	267
United States	2,005	2,024	2,067	2,072	2,066	2,115	2,089	1,814	1,984	2,011
South and Central America	795	803	780	759	742	720	711	630	701	748
Argentina	79	75	79	78	73	69	67	60	75	81
Brazil	326	339	316	299	302	282	286	273	298	305
Chile	45	44	45	48	48	49	49	45	48	51
Colombia	36	37	38	41	38	39	40	36	45	48
Peru	27	27	28	30	31	31	32	26	28	n.d.
Trinidad & Tobago	4	4	4	4	4	3	3	3	3	n.d.
Venezuela	112	111	95	83	77	70	55	33	36	45
Other	165	167	175	176	170	177	179	155	169	n.d.
Europe	1,522	1,505	1,540	1,564	1,588	1,565	1,556	1,404	1,489	1,525
Belgium	47	45	48	47	46	46	44	40	42	41
Czech Republic	20	21	22	21	23	23	23	21	23	24
Finland	23	21	21	22	21	21	21	20	19	n.d.
France	197	191	193	190	190	182	180	159	172	172
Germany	263	256	254	256	255	244	250	235	231	233
Italy	152	152	154	148	143	145	142	119	140	142
Netherlands	60	58	57	59	59	58	56	52	53	53
Norway	24	24	24	24	23	24	22	22	21	21
Poland	59	58	62	69	78	80	82	79	84	85
Portugal	25	25	25	25	26	25	26	23	23	27
Romania	23	24	24	25	27	28	28	27	30	31
Spain	134	133	140	144	145	146	144	121	133	142
Sweden	28	28	27	27	26	24	23	22	25	25
Turkey	82	87	97	106	123	118	116	115	121	123
United Kingdom	155	155	160	164	165	162	157	131	145	150
EU	1,206	1,188	1,208	1,218	1,225	1,210	1,208	1,090	1,151	1,179
Other	229	227	233	237	240	240	240	218	228	n.d.
Former Soviet Union	477	482	481	472	484	474	481	465	495	494
Azerbaijan	10	10	11	11	11	11	12	10	11	n.d.
Kazakhstan	47	33	42	47	44	42	37	42	43	46
Russia	327	348	341	322	340	329	340	324	347	357
Ukraine	36	31	29	31	29	29	30	26	28	24
Uzbekistan	9	9	9	10	10	11	11	12	12	13
Other	49	50	49	51	50	53	52	52	54	n.d.
Middle East	939	955	924	900	899	882	873	804	835	917
Iran	259	246	217	196	197	204	200	183	192	197
Iraq	99	93	87	92	99	101	105	88	104	117
Kuwait	50	48	48	47	46	46	43	42	52	57
Qatar	15	18	17	18	18	18	17	17	18	20
Saudi Arabia	346	378	398	389	374	347	347	331	341	387
United Arab Emirates	44	46	42	46	49	48	46	45	44	51
Other	126	126	115	111	116	117	114	99	83	88
Africa	505	525	532	526	526	525	531	488	524	577
Algeria	52	55	58	56	55	56	58	52	54	59
Angola	19	20	20	18	15	15	17	13	13	n.d.
Egypt	110	118	121	117	106	95	85	81	90	93
Libya	36	37	31	28	28	29	28	25	25	n.d.
Nigeria	55	60	54	57	57	60	65	57	61	63
South Africa	56	52	57	52	58	57	57	52	55	56
Other	178	183	191	200	207	212	221	210	225	n.d.
Asia-Pacific	3,262	3,301	3,433	3,477	3,574	3,681	3,708	3,552	3,703	3,832
Australia	137	135	135	135	137	141	141	134	130	132
China	1,204	1,244	1,323	1,339	1,388	1,507	1,544	1,561	1,605	1,599
India	463	488	534	566	596	601	603	542	567	641
Indonesia	231	234	225	204	218	238	227	199	219	241
Japan	505	463	444	426	414	396	380	355	378	378
Malaysia	84	88	82	80	81	80	85	79	87	94
New Zealand	18	18	19	19	20	20	21	18	19	20
South Korea	182	179	191	198	194	189	190	181	185	182
Taiwan	75	77	80	80	79	76	72	69	57	74
Thailand	106	106	109	112	114	112	115	113	108	122
Other	256	269	293	317	333	323	330	300	348	348
OECD	4,893	4,825	4,900	4,926	4,927	4,920	4,875	4,317	4,648	4,764
Non-OECD	5,149	5,290	5,381	5,373	5,480	5,557	5,593	5,273	5,569	5,876
World	10,041	10,115	10,280	10,299	10,407	10,476	10,469	9,590	10,217	10,640

Natural Gas CO₂ Emissions (Million tonnes of carbon dioxide)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	1,780	1,816	1,863	1,884	1,867	2,006	2,098	2,047	2,054	2,156
Canada	214	225	226	225	229	247	243	240	247	259
Mexico	147	145	151	156	159	156	148	137	139	136
United States	1,418	1,446	1,486	1,504	1,480	1,603	1,706	1,671	1,669	1,761
South and Central America	306	316	320	308	309	304	291	261	282	263
Argentina	95	95	97	97	98	98	94	87	87	89
Brazil	78	85	84	72	77	73	74	69	85	65
Chile	9	8	9	9	10	10	12	11	12	13
Colombia	19	19	20	21	19	20	16	18	16	16
Peru	15	18	18	19	17	17	18	15	17	n.d.
Trinidad & Tobago	32	32	31	28	27	28	29	25	26	n.d.
Venezuela	46	46	47	46	47	43	33	22	24	25
Other	13	14	14	15	15	15	16	14	15	n.d.
Europe	1,006	916	952	1,009	1,054	1,030	1,042	1,018	1,087	955
Belgium	33	29	32	33	33	34	35	34	35	30
Czech Republic	17	15	16	17	17	16	17	17	18	15
Finland	7	6	5	5	5	5	5	5	5	n.d.
France	91	76	81	89	89	85	86	80	86	78
Germany	168	151	156	171	177	174	176	176	187	158
Italy	134	118	129	135	143	139	142	136	146	131
Netherlands	77	68	67	69	71	70	73	71	69	54
Norway	12	13	14	13	14	13	13	12	11	11
Poland	31	30	31	33	34	35	36	37	40	33
Portugal	9	8	10	10	13	12	12	12	12	11
Romania	23	21	21	21	22	22	21	21	23	19
Spain	60	55	57	58	63	63	72	65	68	66
Sweden	2	2	2	2	2	2	2	2	2	1
Turkey	89	94	93	89	104	95	87	93	115	98
United Kingdom	152	137	144	162	157	158	156	147	156	144
EU	741	661	690	733	766	751	773	753	791	689
Other	104	93	97	102	109	107	108	108	115	n.d.
Former Soviet Union	1,209	1,153	1,092	1,114	1,152	1,200	1,207	1,145	1,268	1,219
Azerbaijan	19	21	20	20	20	21	23	24	25	n.d.
Kazakhstan	58	28	27	29	33	33	31	35	42	47
Russia	861	857	817	834	865	907	914	857	960	932
Ukraine	89	73	58	57	56	57	52	53	49	37
Uzbekistan	89	83	79	83	88	89	92	86	97	88
Other	92	91	91	90	91	94	94	91	96	n.d.
Middle East	785	834	890	932	960	961	991	999	1,024	1,044
Iran	297	335	358	383	405	411	406	411	426	430
Iraq	13	13	13	14	21	26	34	35	36	39
Kuwait	35	35	40	42	43	46	49	49	52	56
Qatar	62	66	70	71	72	72	75	74	74	74
Saudi Arabia	154	160	164	170	179	182	184	186	188	197
United Arab Emirates	128	126	140	142	129	113	128	130	128	123
Other	96	99	105	109	110	112	115	114	120	125
Africa	230	235	246	258	279	291	293	292	317	311
Algeria	66	73	78	78	80	87	90	88	97	95
Angola	1	1	1	2	2	2	2	3	3	n.d.
Egypt	85	80	84	94	112	116	111	113	119	116
Libya	18	16	16	16	16	16	17	15	16	n.d.
Nigeria	30	33	33	34	32	33	33	33	39	39
South Africa	5	5	5	5	5	5	5	5	5	5
Other	27	28	29	30	32	33	35	36	39	n.d.
Asia-Pacific	1,292	1,329	1,338	1,399	1,470	1,560	1,599	1,613	1,683	1,660
Australia	68	69	70	71	70	72	66	68	66	68
China	323	354	371	402	461	543	591	627	704	695
India	89	89	94	102	110	109	117	111	113	106
Indonesia	83	85	85	83	80	83	83	77	76	70
Japan	248	250	238	244	237	228	218	217	194	191
Malaysia	77	80	78	73	80	78	81	75	78	83
New Zealand	9	10	9	9	9	8	9	8	7	7
South Korea	111	100	93	99	103	114	110	115	127	125
Taiwan	36	38	41	43	47	47	46	51	55	57
Thailand	87	87	87	86	81	83	87	76	77	72
Other	161	167	172	188	192	193	190	188	187	185
OECD	3,200	3,142	3,208	3,301	3,325	3,440	3,528	3,458	3,519	3,496
Non-OECD	3,409	3,457	3,493	3,602	3,766	3,913	3,992	3,917	4,197	4,112
World	6,608	6,599	6,702	6,904	7,091	7,353	7,520	7,375	7,716	7,608

Coal CO₂ Emissions (Million tonnes of carbon dioxide)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	1,835	1,825	1,595	1,472	1,442	1,360	1,169	944	1,074	1,011
Canada	75	72	66	65	66	53	51	43	43	33
Mexico	52	51	55	48	51	43	42	32	27	35
United States	1,707	1,702	1,474	1,358	1,326	1,264	1,076	869	1,004	943
South and Central America	121	124	128	123	118	117	121	115	123	96
Argentina	4	4	5	4	4	4	3	3	4	4
Brazil	59	65	65	60	60	58	55	50	61	46
Chile	28	25	28	30	30	28	32	30	30	23
Colombia	18	19	18	18	15	17	19	22	17	15
Peru	3	3	3	3	3	2	3	2	2	n.d.
Trinidad & Tobago	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Venezuela	1	1	1	1	0	0	0	0	0	0
Other	7	7	9	8	7	8	8	8	8	7
Europe	1,357	1,291	1,273	1,203	1,189	1,147	977	845	925	948
Belgium	16	14	14	13	13	13	13	10	11	12
Czech Republic	65	63	62	63	62	62	56	49	51	56
Finland	22	20	17	19	18	19	16	12	14	n.d.
France	49	38	36	32	40	42	34	27	36	32
Germany	339	325	323	314	292	277	223	183	215	226
Italy	53	52	48	44	38	35	26	20	22	32
Netherlands	36	40	48	44	40	37	29	20	29	29
Norway	3	3	3	3	3	3	3	3	3	3
Poland	214	202	201	202	203	199	178	165	187	177
Portugal	10	11	13	11	13	11	5	2	1	0
Romania	24	23	24	22	22	21	20	14	16	15
Spain	46	51	57	44	53	47	21	12	12	17
Sweden	8	8	7	7	8	8	7	6	6	6
Turkey	125	138	141	156	165	169	171	167	170	172
United Kingdom	146	118	94	50	40	35	25	23	24	22
EU	1,017	977	974	931	918	878	717	590	670	695
Other	202	185	184	178	180	171	149	132	130	n.d.
Former Soviet Union	702	639	631	620	616	670	659	633	704	695
Azerbaijan	0	0	0	0	0	0	0	0	0	n.d.
Kazakhstan	147	141	107	116	127	131	127	125	129	128
Russia	390	354	404	384	380	418	419	402	440	462
Ukraine	149	127	104	104	92	102	93	82	90	54
Uzbekistan	8	8	6	7	7	8	8	11	10	11
Other	8	9	9	9	10	11	11	11	36	n.d.
Middle East	43	43	41	37	37	35	36	35	33	34
Iran	6	6	7	6	7	7	7	7	7	7
Iraq	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kuwait	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Qatar	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Saudi Arabia	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
United Arab Emirates	7	8	7	7	8	8	7	8	9	10
Other	30	29	27	24	21	20	21	19	17	17
Africa	398	419	393	401	411	423	434	386	404	379
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	0	4	7	10	7	5	8	7
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	368	382	354	359	364	368	377	334	325	307
Other	28	36	38	38	40	45	50	47	70	65
Asia-Pacific	10,467	10,585	10,449	10,409	10,670	10,982	11,047	10,936	11,530	12,150
Australia	188	178	184	192	189	182	177	167	163	159
China	7,605	7,535	7,394	7,319	7,398	7,519	7,560	7,647	8,064	8,184
India	1,306	1,446	1,405	1,389	1,469	1,592	1,544	1,413	1,599	1,732
Indonesia	115	145	160	174	194	223	276	270	282	428
Japan	444	436	430	422	422	410	401	375	396	395
Malaysia	60	61	69	75	82	88	83	92	88	88
New Zealand	5	4	4	3	3	4	5	4	5	4
South Korea	319	332	339	340	347	347	336	297	285	270
Taiwan	151	153	148	150	154	154	147	144	150	140
Thailand	69	64	68	62	66	64	66	69	61	56
Other	204	231	249	282	344	400	452	458	437	695
OECD	4,087	4,011	3,765	3,572	3,531	3,388	3,012	2,584	2,796	2,728
Non-OECD	10,834	10,916	10,746	10,693	10,952	11,346	11,431	11,309	11,996	12,584
World	14,921	14,927	14,510	14,265	14,483	14,734	14,443	13,893	14,792	15,312

CO₂ Emissions Intensity to GDP (kCO ₂ /thousand \$15ppp)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	300	300	280	270	270	260	250	230	240	240
Canada	370	360	360	350	350	340	330	320	320	320
Mexico	220	210	200	200	200	180	180	160	170	190
United States	300	290	280	270	260	260	250	230	230	230
South and Central America	180	180	180	180	170	160	160	150	160	160
Argentina	210	210	210	210	200	200	200	200	200	200
Brazil	150	160	150	150	150	140	140	140	150	130
Chile	210	190	200	210	210	200	210	210	200	190
Colombia	120	120	120	120	110	110	110	120	110	100
Peru	140	140	140	140	130	130	130	120	120	n.d.
Trinidad & Tobago	960	970	950	910	910	930	940	880	900	n.d.
Venezuela	250	260	250	270	310	350	370	330	360	390
Europe	180	170	170	160	160	150	150	140	140	130
Belgium	200	180	190	180	180	180	170	170	160	150
Czech Republic	310	290	280	280	270	260	240	230	240	240
Finland	220	210	190	200	180	190	170	160	150	n.d.
France	130	120	120	120	120	110	110	100	110	100
Germany	210	200	190	190	180	170	160	150	160	150
Italy	150	150	150	150	140	140	130	130	140	130
Netherlands	210	200	210	200	190	180	170	160	160	140
Norway	140	130	130	130	130	120	120	120	110	100
Poland	320	300	290	290	290	270	250	240	250	230
Portugal	150	150	160	150	160	150	130	120	110	n.d.
Romania	170	170	160	150	150	140	130	130	130	120
Spain	160	150	160	150	150	150	130	130	130	130
Sweden	90	90	80	80	80	70	70	70	70	n.d.
Turkey	160	170	160	170	170	170	160	160	160	140
United Kingdom	170	150	140	130	130	120	110	110	110	110
EU	180	170	170	170	170	160	150	140	150	140
Former Soviet Union	460	440	440	430	430	440	430	420	440	440
Azerbaijan	210	220	220	230	220	220	240	240	240	n.d.
Kazakhstan	650	500	430	460	480	460	420	440	450	450
Russia	450	440	450	440	450	460	450	440	460	480
Ukraine	510	480	440	430	390	400	360	350	350	350
Uzbekistan	580	510	450	450	450	440	430	420	420	380
Middle East	370	370	370	360	360	350	360	360	360	350
Iran	510	510	510	480	480	500	500	480	480	480
Iraq	340	320	290	270	310	320	330	330	370	380
Kuwait	480	460	490	480	500	500	510	550	630	630
Qatar	360	370	370	360	370	370	370	380	380	370
Saudi Arabia	350	360	360	360	360	330	330	340	330	340
United Arab Emirates	330	310	310	320	290	260	270	300	280	260
Africa	210	210	200	200	200	200	190	180	190	180
Algeria	270	280	280	270	270	280	290	290	300	300
Angola	100	100	110	100	80	90	100	80	90	n.d.
Egypt	200	190	190	190	200	180	160	150	160	150
Libya	300	380	340	320	250	230	260	300	240	n.d.
Nigeria	90	100	90	90	90	90	100	90	100	100
South Africa	580	590	550	540	550	550	560	530	500	470
Asia-Pacific	390	380	360	340	330	320	310	310	310	310
Australia	370	360	350	350	340	330	320	300	290	280
China	590	550	510	480	460	440	420	420	410	400
India	300	310	280	270	260	260	250	240	250	250
Indonesia	180	180	180	170	170	180	180	170	180	210
Japan	240	230	220	210	210	200	190	190	190	190
Malaysia	330	320	300	290	290	280	270	290	290	280
New Zealand	200	190	180	170	180	170	170	160	150	150
South Korea	340	330	330	330	320	320	300	280	280	260
Taiwan	530	520	510	520	520	490	460	440	410	420
Thailand	250	240	240	230	220	210	220	220	210	210
OECD	240	230	230	220	220	210	200	190	190	190
Non-OECD	360	350	340	330	320	310	310	310	310	310
World	310	300	290	280	270	270	260	250	250	250

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

CO₂ Emissions per capita (tCO ₂ per capita)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	13.7	13.7	13.3	13.0	12.8	12.9	12.6	11.1	11.8	12.0
Canada	17.8	17.6	17.4	17.1	17.2	17.3	16.6	15.2	15.7	15.9
Mexico	4.1	4.0	4.0	4.1	4.0	3.7	3.7	3.1	3.3	3.6
United States	16.9	16.9	16.4	15.9	15.7	15.9	15.6	13.8	14.8	14.9
South and Central America	2.8	2.9	2.8	2.7	2.6	2.5	2.4	2.2	2.4	2.4
Argentina	4.5	4.3	4.4	4.3	4.2	4.1	3.9	3.5	3.9	4.0
Brazil	2.6	2.8	2.6	2.4	2.4	2.2	2.2	2.1	2.4	2.2
Chile	4.8	4.4	4.6	4.9	4.9	4.8	5.1	4.7	4.9	4.7
Colombia	1.7	1.8	1.8	1.8	1.6	1.7	1.7	1.6	1.7	1.7
Peru	1.7	1.8	1.8	1.8	1.7	1.7	1.8	1.4	1.5	n.d.
Trinidad & Tobago	32.1	31.4	31.2	28.4	27.6	27.6	27.7	24.2	24.4	n.d.
Venezuela	6.6	6.5	6.1	5.6	5.2	4.8	3.8	2.4	2.6	3.1
Other	1.7	1.7	1.8	1.8	1.7	1.8	1.8	1.5	1.7	n.d.
Europe	6.9	6.6	6.7	6.7	6.7	6.6	6.3	5.8	6.2	6.0
Belgium	10.0	9.4	9.8	9.6	9.5	9.6	9.4	8.7	9.0	8.5
Czech Republic	10.6	10.3	10.3	10.4	10.6	10.5	9.9	9.0	9.5	10.0
Finland	10.1	9.3	8.6	9.2	8.8	9.0	8.3	7.5	7.4	n.d.
France	5.6	5.1	5.2	5.2	5.2	5.1	4.9	4.4	4.8	4.6
Germany	10.3	9.8	9.7	9.7	9.5	9.1	8.5	7.8	8.3	8.1
Italy	6.1	5.7	5.8	5.8	5.7	5.7	5.6	5.0	5.6	5.6
Netherlands	11.0	10.5	10.8	10.8	10.7	10.3	9.8	8.9	9.3	8.3
Norway	9.7	9.6	9.7	9.4	9.3	9.2	8.8	8.5	8.1	7.9
Poland	8.7	8.3	8.5	8.7	9.1	9.1	8.6	8.2	9.1	8.7
Portugal	4.9	4.8	5.2	5.1	5.6	5.2	4.8	4.2	4.0	4.3
Romania	3.9	3.9	3.9	3.9	4.1	4.1	4.0	3.8	4.2	4.0
Spain	5.6	5.6	6.0	5.8	6.1	6.0	5.5	4.7	5.0	5.3
Sweden	4.8	4.6	4.6	4.5	4.5	4.2	4.0	3.8	4.0	4.0
Turkey	4.5	4.7	4.8	5.0	5.5	5.4	5.1	5.1	5.5	5.3
United Kingdom	7.4	6.7	6.5	6.1	5.8	5.7	5.4	4.8	5.2	5.0
EU	7.3	7.0	7.1	7.1	7.2	7.0	6.7	6.0	6.5	6.4
Other	6.3	6.0	6.1	6.2	6.3	6.2	6	5	6	n.d.
Former Soviet Union	8.5	8.2	8.0	8.0	8.2	8.3	8.3	8.3	8.3	8.3
Azerbaijan	3.2	3.3	3.2	3.3	3.3	n.d.	n.d.	n.d.	n.d.	n.d.
Kazakhstan	14.7	13.6	13.0	13.1	13.2	13.5	13.5	13.5	13.5	13.5
Russia	11.2	11.1	11.1	11.0	11.7	12.1	12.1	12.1	12.1	12.1
Ukraine	6.0	5.1	4.2	4.5	3.9	3.9	3.9	3.9	3.9	3.9
Uzbekistan	3.3	3.3	2.9	2.7	2.7	2.8	2.8	2.8	2.8	2.8
Other	161	164	163	164	166	173	173	169	179	n.d.
Middle East	8.6	8.7	8.6	8.5	8.5	8.3	8.2	7.8	8.0	8.3
Iran	8.3	8.5	8.3	8.2	8.5	8.5	8.3	8.0	8.2	8.3
Iraq	4.2	3.8	3.6	3.8	4.0	4.2	4.5	3.8	4.3	4.6
Kuwait	25.0	23.5	23.8	23.4	22.7	22.7	22.6	21.8	24.8	26.4
Qatar	38.2	39.0	38.8	38.2	37.4	36.4	36.7	35.6	35.7	35.6
Saudi Arabia	17.5	18.2	18.5	18.1	17.4	16.4	16.2	15.5	15.6	16.9
United Arab Emirates	20.5	20.7	21.7	22.1	20.9	18.8	19.8	19.9	19.4	19.0
Other	3.8	3.8	3.7	3.5	3.5	3.5	3.4	3.1	3.1	3.2
Africa	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0
Algeria	3.5	3.7	3.8	3.7	3.6	3.8	3.8	3.6	3.8	3.8
Angola	1.6	1.6	1.6	1.4	1.1	1.0	1.1	0.8	0.8	n.d.
Egypt	2.5	2.5	2.5	2.6	2.7	2.6	2.4	2.3	2.4	2.4
Libya	9.6	10.2	9.0	8.2	8.9	9.1	9.0	7.8	8.0	n.d.
Nigeria	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
South Africa	8.3	8.3	7.8	7.7	7.7	7.7	7.7	6.8	6.6	6.3
Other	0.38	0.39	0.40	0.40	0.41	0.41	0.42	0.40	0.41	n.d.
Asia-Pacific	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.5	4.7	4.9
Australia	18.0	17.3	17.4	17.6	17.3	17.0	16.5	15.6	15.1	15.0
China	8.2	8.2	8.0	8.0	8.0	8.2	8.3	8.4	8.8	8.9
India	1.6	1.7	1.7	1.7	1.8	1.9	1.9	1.7	1.8	2.0
Indonesia	1.9	2.0	2.0	2.0	2.1	2.3	2.4	2.2	2.3	3.0
Japan	10.4	10.0	9.7	9.6	9.5	9.2	8.9	8.4	8.7	8.7
Malaysia	8.0	8.2	8.1	7.9	8.3	8.3	8.3	8.1	8.2	8.5
New Zealand	7.9	8.0	7.8	7.4	7.6	7.3	7.5	6.7	6.6	6.4
South Korea	13.5	13.3	13.5	13.8	14.0	13.9	13.5	12.6	12.8	12.4
Taiwan	11.7	11.9	11.8	12.0	12.3	12.2	11.7	11.6	11.5	11.9
Thailand	4.1	4.0	4.1	4.0	4.0	4.0	4.1	3.9	3.8	3.8
Other	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.4	1.4	1.8
OECD	10.4	10.2	10.0	9.9	9.8	9.8	9.5	8.6	9.0	8.6
Non-OECD	3.9	3.9	3.8	3.8	3.8	3.9	3.9	3.7	3.9	4.1
World	5.0	5.0	4.9	4.8	4.9	4.9	4.8	4.6	4.8	4.9

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



Primary Energy
Intensity to GDP

Primary Energy Intensity to GDP (ktep/\$15ppp)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
North America	130	130	120	120	120	120	120	110	110	110
Canada	180	180	170	180	180	180	180	170	170	170
Mexico	90	90	80	80	80	80	80	80	80	80
United States	130	130	120	120	110	110	110	110	110	110
South and Central America	90	90	90	90	90	90	90	90	90	90
Argentina	90	100	100	100	90	90	100	100	100	100
Brazil	90	100	100	100	100	100	100	100	100	100
Chile	100	90	90	90	90	90	90	90	80	80
Colombia	70	70	60	70	60	60	60	60	60	60
Peru	60	60	60	60	60	60	60	60	60	n.d.
Trinidad & Tobago	510	530	500	470	480	490	500	460	480	n.d.
Venezuela	120	110	110	120	140	120	140	150	160	180
Europe	80	80	80	80	80	70	70	70	70	70
Belgium	110	100	100	110	100	100	100	100	100	90
Czech Republic	130	120	120	110	110	110	100	100	110	100
Finland	140	150	140	140	140	140	130	130	130	n.d.
France	100	90	90	90	90	90	80	80	80	70
Germany	90	80	80	80	80	70	70	70	70	60
Italy	70	70	70	70	70	60	60	60	70	60
Netherlands	90	80	90	80	80	80	80	80	80	60
Norway	100	90	80	90	90	90	90	90	90	80
Poland	100	100	90	90	90	90	90	90	90	80
Portugal	70	70	70	70	70	70	60	60	60	n.d.
Romania	80	80	70	70	70	70	60	60	60	60
Spain	80	70	70	70	70	70	70	70	70	70
Sweden	110	100	90	100	100	100	90	90	90	n.d.
Turkey	60	60	60	70	70	60	60	60	60	60
United Kingdom	70	70	60	60	60	60	60	60	50	50
EU	90	80	80	80	80	80	80	70	70	70
Former Soviet Union	200	190	190	190	190	200	190	190	200	200
Azerbaijan	100	100	100	100	100	100	110	110	110	n.d.
Kazakhstan	210	160	130	160	150	170	160	140	150	150
Russia	200	200	200	200	200	210	210	210	210	220
Ukraine	210	210	210	200	200	200	180	180	190	190
Uzbekistan	220	190	170	170	170	200	180	170	180	160
Middle East	150	150	150	150	150	150	150	160	150	150
Iran	200	210	210	200	210	220	220	210	210	210
Iraq	130	120	110	100	120	130	130	120	130	140
Kuwait	170	150	180	190	190	190	200	230	260	260
Qatar	210	190	190	170	190	190	190	200	210	200
Saudi Arabia	140	150	150	150	150	150	150	150	150	150
United Arab Emirates	120	130	140	150	120	120	130	130	130	120
Africa	140	140	130	130	130	130	130	130	130	130
Algeria	110	120	120	110	110	120	120	120	130	130
Angola	70	90	70	70	70	80	80	70	80	n.d.
Egypt	80	80	80	80	80	80	70	70	70	70
Libya	100	160	130	130	100	90	130	120	130	n.d.
Nigeria	160	150	150	150	150	150	160	160	160	160
South Africa	180	190	180	180	180	170	170	180	170	160
Asia-Pacific	140	140	130	120	120	120	120	120	120	120
Australia	120	120	120	110	110	110	110	110	100	100
China	190	180	170	160	150	150	150	150	150	150
India	120	120	120	110	110	110	100	100	100	100
Indonesia	80	80	70	70	70	70	70	70	70	80
Japan	90	90	80	80	80	80	80	80	80	80
Malaysia	130	120	110	110	110	110	110	110	110	100
New Zealand	120	130	120	120	110	110	110	100	100	100
South Korea	140	140	140	140	140	130	130	130	130	130
Taiwan	220	210	210	210	200	200	190	180	170	160
Thailand	130	130	120	120	120	110	110	110	110	110
OECD	110	100	100	100	100	90	90	90	90	90
Non-OECD	140	140	140	130	130	130	130	130	130	130
World	130	130	120	120	120	120	110	110	110	110

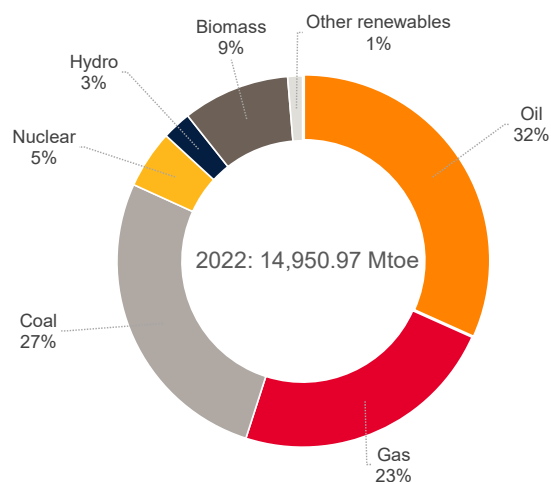


Regional
and country
data

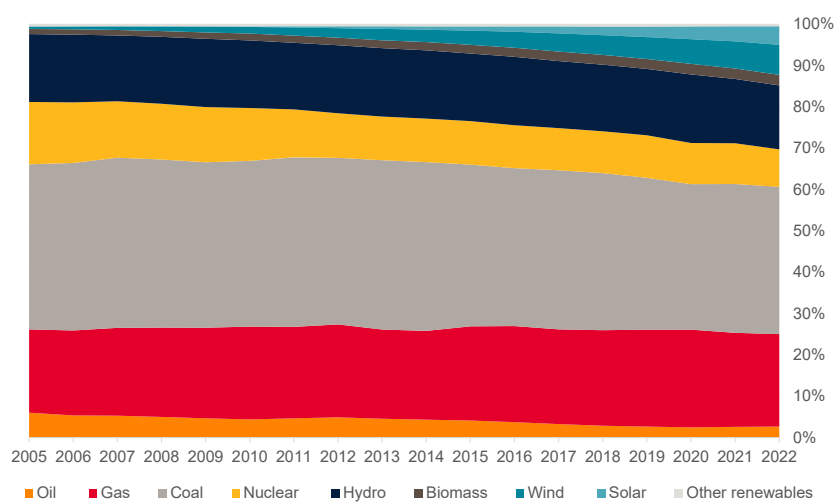
World (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	13,385.4	13,559.1	13,578.3	13,700.9	14,000.1	14,352.9	14,522.9	13,965.5	14,663.1	14,951.0	100.0
Oil	4,218.5	4,299.4	4,362.5	4,431.5	4,517.8	4,532.6	4,560.4	4,140.7	4,367.2	4,519.0	30.2
Gas	2,894.9	2,894.0	2,920.0	3,020.4	3,104.6	3,268.4	3,345.0	3,303.0	3,459.5	3,402.8	22.8
Coal	3,911.9	3,955.3	3,849.9	3,738.5	3,801.2	3,880.9	3,863.3	3,752.0	3,965.2	4,102.1	27.4
Nuclear	646.1	660.7	669.8	679.8	687.0	706.0	726.9	697.3	731.0	688.3	4.6
Hydro	327.3	334.3	334.9	346.8	350.4	361.4	364.3	373.7	369.4	375.4	2.5
Biomass	1,222.6	1,233.9	1,238.0	1,257.8	1,283.5	1,315.7	1,344.1	1,351.0	1,379.2	1,423.1	9.5
Other renewables	69.1	80.0	95.0	112.9	137.3	160.1	185.0	211.9	251.6	294.1	2.0
Electricity balance of trade*	95.1	101.5	108.3	113.2	118.4	127.8	133.9	136.0	140.0	146.1	1.0
Total final consumption, by source	9,343.3	9,471.1	9,542.4	9,656.3	9,845.9	10,066.1	10,130.4	9,701.2	10,158.5	10,379.5	100.0
Oil	3,688.3	3,751.4	3,843.5	3,901.1	3,997.1	4,065.0	4,078.2	3,697.5	3,916.1	4,059.2	39.1
Gas	1,360.8	1,364.3	1,364.7	1,400.7	1,449.2	1,526.7	1,558.6	1,519.6	1,618.9	1,584.6	15.3
Coal	1,328.0	1,342.3	1,305.1	1,254.4	1,217.4	1,176.4	1,149.7	1,137.6	1,127.3	1,156.3	11.1
Electricity	1,674.2	1,719.5	1,737.9	1,790.2	1,850.9	1,932.3	1,960.1	1,957.2	2,070.5	2,115.4	20.4
Heat	314.0	312.8	313.4	329.7	339.2	358.1	361.9	367.0	391.1	396.3	3.8
Biomass	977.9	980.7	977.8	980.2	992.1	1,007.6	1,021.9	1,022.2	1,034.6	1,067.7	10.3
Electricity generation, by source	2,020.0	2,068.9	2,093.9	2,153.6	2,219.5	2,297.6	2,326.9	2,309.0	2,439.8	2,496.5	100.0
Oil	91.7	89.3	86.4	79.7	72.2	65.5	61.5	56.6	63.1	66.1	2.6
Gas	436.0	444.6	476.7	500.9	508.8	531.4	546.1	546.3	555.3	558.8	22.4
Coal	828.1	844.8	819.6	822.9	854.3	872.8	854.7	812.7	878.2	889.7	35.6
Nuclear	213.2	218.0	221.0	224.3	226.7	233.0	239.9	230.1	241.2	227.1	9.1
Hydro	334.4	341.8	342.4	356.1	360.3	371.0	373.6	383.3	378.9	385.6	15.4
Biomass	38.7	41.7	43.8	47.8	50.7	53.6	56.1	59.0	62.2	63.9	2.6
Wind	55.7	62.1	71.7	82.8	97.6	109.7	122.9	137.6	160.4	181.6	7.3
Solar	12.5	16.6	21.9	28.5	38.0	48.6	59.9	72.1	88.8	111.9	4.5
Other renewables	9.6	10.0	10.4	10.6	10.9	12.0	12.3	11.3	11.6	11.7	0.5
Total final consumption, by sector	9,343.3	9,471.1	9,542.4	9,656.3	9,845.9	10,066.1	10,130.4	9,701.2	10,158.5	10,379.5	100.0
Industry	2,991.4	3,040.4	2,996.0	2,984.3	3,010.4	3,064.7	3,084.2	3,080.8	3,181.4	3,214.9	31.0
Transport	2,508.3	2,553.9	2,634.7	2,691.4	2,762.7	2,832.1	2,843.7	2,453.9	2,644.9	2,776.0	26.7
Residential/Commercial	2,765.4	2,760.4	2,782.5	2,829.1	2,888.4	2,970.7	2,980.2	2,956.0	3,079.0	3,138.2	30.2
Oil final consumption, by sector	3,688.3	3,751.4	3,843.5	3,901.1	3,997.1	4,065.0	4,078.2	3,697.5	3,916.1	4,059.2	100.0
Industry	276.3	278.2	283.3	276.0	276.5	277.8	278.6	284.1	289.4	302.6	7.5
Transport	2,373.6	2,410.8	2,485.8	2,536.8	2,600.6	2,657.6	2,657.5	2,274.4	2,455.5	2,585.0	63.7
Residential/Commercial	287.1	280.3	288.6	291.3	297.2	296.3	290.0	288.0	293.5	302.1	7.4
Natural gas final consumption, by sector	1,360.8	1,364.3	1,364.7	1,400.7	1,449.2	1,526.7	1,558.6	1,519.6	1,618.9	1,584.6	100.0
Industry	537.4	546.4	542.4	554.0	570.1	594.7	613.6	610.8	648.3	631.1	39.8
Transport	35.7	39.7	42.0	43.3	45.5	50.1	53.5	52.0	56.5	58.0	3.7
Residential/Commercial	618.2	608.4	606.8	621.8	638.7	680.1	685.7	666.7	712.7	699.2	44.1
Refined products consumption	3,675.8	3,739.1	3,830.4	3,888.0	3,984.6	4,051.8	4,062.6	3,681.2	3,897.4	4,039.1	100.0
Gasoline	1,005.9	1,016.3	1,050.7	1,076.7	1,088.3	1,105.5	1,112.1	987.0	1,070.3	1,098.2	27.2
Diesel	1,233.2	1,256.8	1,278.2	1,272.5	1,298.7	1,318.2	1,304.9	1,200.6	1,264.9	1,326.2	32.8
Heating Oil	255.7	250.7	246.8	245.7	251.6	246.0	234.1	219.4	233.1	248.7	6.2
Aviation Jet	268.5	278.3	293.6	307.3	327.2	341.0	347.5	195.9	222.9	237.1	5.9
LPG	266.9	275.6	280.5	291.7	299.3	315.0	322.8	318.3	328.7	337.1	8.3
Imports	4,287.3	4,255.9	4,435.1	4,608.9	4,751.3	4,813.3	4,807.0	4,461.1	4,618.3	4,716.0	100.0
Oil	3,434.3	3,430.0	3,589.4	3,721.4	3,818.2	3,853.5	3,811.0	3,493.1	3,584.1	3,707.8	78.6
Gas	853.0	825.9	845.7	887.5	933.1	959.8	996.0	968.0	1,034.2	1,008.2	21.4
Gasoline	201.8	206.6	223.2	239.8	241.2	249.5	263.0	233.6	256.4	273.1	5.8
Diesel	344.7	354.1	370.0	389.1	393.8	391.1	384.9	357.7	375.6	399.3	8.5
Heating Oil	252.3	241.3	246.6	241.7	228.0	221.7	210.2	202.9	219.5	224.8	4.8
Aviation Jet	73.0	71.9	78.4	86.6	92.2	93.9	94.8	59.9	57.3	71.4	1.5
LPG	92.6	100.8	110.4	124.8	130.1	135.8	143.4	143.1	150.2	155.6	3.3
Exports	4,337.5	4,298.1	4,508.0	4,707.1	4,793.5	4,900.8	4,868.5	4,529.7	4,630.6	4,772.6	100.0
Oil	3,466.6	3,445.1	3,634.6	3,792.1	3,827.9	3,908.6	3,824.7	3,523.9	3,562.7	3,719.7	77.9
Gas	870.9	853.0	873.4	914.9	965.6	992.2	1,043.9	1,005.9	1,067.9	1,052.9	22.1
Gasoline	190.2	197.7	224.6	239.1	241.4	251.5	245.3	218.0	238.1	240.6	5.0
Diesel	358.5	361.2	386.6	411.9	430.7	430.9	423.3	397.1	405.7	407.1	8.5
Heating Oil	300.9	292.2	303.3	284.2	270.8	272.3	234.9	217.6	237.6	235.5	4.9
Aviation Jet	88.0	84.6	89.2	92.8	98.6	103.6	102.1	75.6	71.8	90.4	1.9
LPG	73.2	87.5	100.4	113.6	118.6	125.2	126.3	127.6	138.6	146.7	3.1
CO₂ Emissions (Million tons CO₂)	31,759.8	31,833.3	31,685.2	31,682.3	32,202.1	32,793.7	32,664.4	31,095.3	32,939.6	33,795.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	304.9	295.7	284.9	276.2	270.7	266.1	257.9	253.5	253.6	251.8	-
Final energy intensity (toe/million \$15ppp)	81.8	80.0	78.0	76.4	75.0	74.1	72.3	71.3	70.5	70.0	-
Total energy intensity (toe/million \$15ppp)	128.5	126.0	122.1	119.4	117.7	116.5	114.7	113.9	112.9	111.4	-

*Heat is included

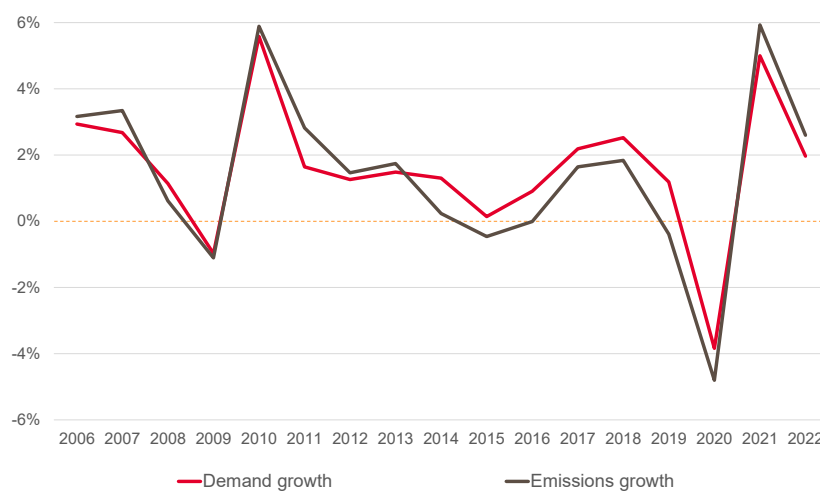
Primary energy demand mix



Electricity generation by source



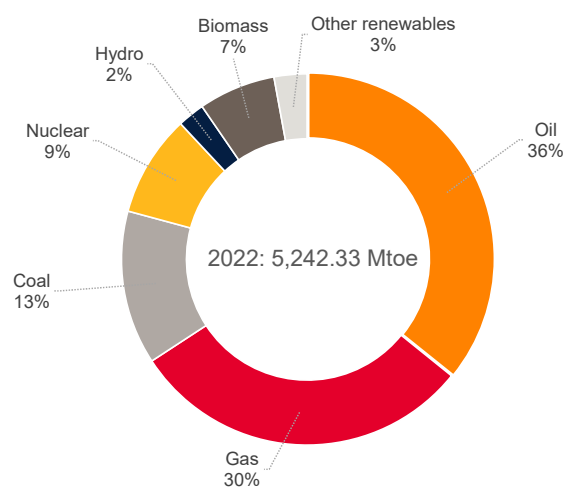
Primary energy demand and CO₂ emissions growth



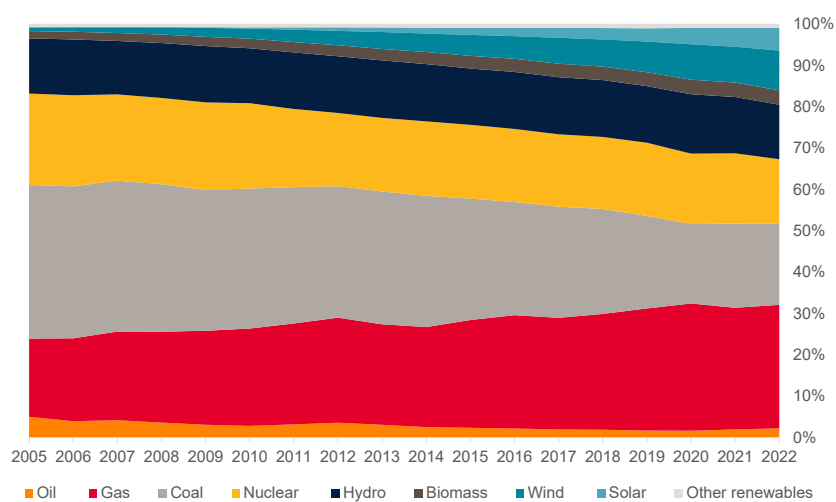
OECD (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	5,381.7	5,333.4	5,326.3	5,343.8	5,377.9	5,426.6	5,390.8	5,032.7	5,271.4	5,242.3	100.0
Oil	1,916.5	1,898.9	1,921.6	1,922.9	1,940.8	1,927.4	1,913.3	1,720.2	1,831.7	1,854.4	35.4
Gas	1,381.7	1,360.6	1,386.6	1,437.8	1,453.3	1,510.9	1,562.5	1,536.7	1,566.9	1,554.2	29.6
Coal	1,035.5	1,015.5	951.6	902.7	886.3	858.3	767.3	654.9	715.2	695.0	13.3
Nuclear	511.4	516.1	513.6	512.3	509.6	515.8	517.4	484.2	497.9	459.2	8.8
Hydro	127.0	125.6	124.0	126.4	126.8	128.9	126.5	129.3	125.8	122.3	2.3
Biomass	313.2	311.6	312.6	316.6	325.0	335.8	341.6	331.1	344.9	348.2	6.6
Other renewables	50.0	56.8	66.1	73.3	85.1	92.4	104.2	119.1	129.3	148.1	2.8
Electricity balance of trade*	46.4	48.4	50.3	51.9	51.0	57.1	57.8	57.2	59.6	60.9	1.2
Total final consumption, by source	3,723.6	3,690.6	3,710.2	3,747.4	3,787.2	3,828.6	3,818.2	3,553.0	3,733.9	3,718.8	100.0
Oil	1,714.8	1,710.1	1,739.1	1,756.6	1,772.4	1,773.3	1,772.3	1,591.1	1,695.8	1,711.0	46.0
Gas	731.9	717.5	709.1	721.3	738.2	758.6	763.9	724.1	754.3	731.7	19.7
Coal	176.6	173.9	170.3	163.8	164.9	159.8	151.2	138.4	148.9	138.2	3.7
Electricity	815.6	812.8	816.0	826.1	827.8	841.8	832.6	813.8	836.3	838.7	22.6
Heat	69.7	66.3	67.3	70.6	70.6	72.4	71.6	69.5	73.3	71.4	1.9
Biomass	215.1	210.0	208.5	209.0	213.3	222.7	226.5	216.1	225.4	227.9	6.1
Electricity generation, by source	949.3	944.4	948.5	956.4	959.7	977.2	963.9	938.8	966.7	975.1	100.0
Oil	29.2	23.7	22.2	20.7	18.6	18.5	16.2	15.6	18.7	21.7	2.2
Gas	231.0	228.9	247.5	262.4	259.4	273.6	284.9	288.9	284.7	291.3	29.9
Coal	305.2	299.8	278.7	261.9	258.1	248.6	215.7	180.8	197.3	192.2	19.7
Nuclear	168.8	170.3	169.5	169.1	168.2	170.2	170.8	159.8	164.3	151.5	15.5
Hydro	132.3	130.8	129.1	131.9	132.7	134.4	131.9	135.0	131.5	128.6	13.2
Biomass	26.4	27.7	29.0	30.6	31.2	31.9	32.5	33.0	33.9	34.0	3.5
Wind	38.7	42.2	48.2	52.4	60.2	64.2	71.7	80.5	83.7	93.8	9.6
Solar	10.4	13.3	16.4	19.5	23.4	26.8	31.0	37.2	44.2	53.6	5.5
Other renewables	7.4	7.6	7.7	7.9	8.0	8.9	9.2	8.1	8.4	8.4	0.9
Total final consumption, by sector	3,723.6	3,690.6	3,710.2	3,747.4	3,787.2	3,828.6	3,818.2	3,553.0	3,733.9	3,718.8	100.0
Industry	873.5	867.0	861.1	866.2	874.7	882.1	870.6	838.1	875.5	852.4	22.9
Transport	1,184.4	1,188.2	1,220.3	1,240.0	1,252.9	1,264.1	1,262.3	1,087.2	1,184.8	1,216.5	32.7
Residential/Commercial	1,229.0	1,188.1	1,186.5	1,192.4	1,196.4	1,222.9	1,215.5	1,185.0	1,219.3	1,216.0	32.7
Oil final consumption, by sector	1,714.8	1,710.1	1,739.1	1,756.6	1,772.4	1,773.3	1,772.3	1,591.1	1,695.8	1,711.0	100.0
Industry	86.3	81.3	83.1	82.1	81.9	83.2	78.4	79.0	80.3	79.6	4.7
Transport	1,119.7	1,121.9	1,153.3	1,170.0	1,180.2	1,190.0	1,186.7	1,017.1	1,110.3	1,141.5	66.7
Residential/Commercial	132.6	121.3	123.2	122.7	120.6	114.1	111.2	110.5	107.5	109.1	6.4
Natural gas final consumption, by sector	731.9	717.5	709.1	721.3	738.2	758.6	763.9	724.1	754.3	731.7	100.0
Industry	266.6	267.8	264.4	273.6	276.8	279.0	280.2	277.1	287.7	277.5	37.9
Transport	4.3	4.6	4.7	4.7	4.8	4.8	5.0	4.6	5.3	5.0	0.7
Residential/Commercial	420.2	403.3	397.2	396.5	403.9	422.8	426.7	405.6	426.2	417.4	57.1
Refined products consumption	1,709.3	1,704.5	1,732.3	1,751.2	1,765.6	1,765.7	1,762.3	1,580.4	1,683.1	1,698.3	100.0
Gasoline	598.0	596.7	608.4	617.2	613.7	613.9	611.4	528.0	576.7	587.2	34.6
Diesel	599.6	603.4	609.8	613.7	623.6	627.8	621.3	569.2	600.3	606.9	35.7
Heating Oil	21.7	18.9	20.5	18.6	17.9	16.6	14.4	12.9	13.3	13.1	0.8
Aviation Jet	71.2	73.8	77.0	79.6	83.4	85.0	86.1	52.0	65.2	78.7	4.6
LPG	112.2	108.9	109.9	108.7	106.1	111.5	115.4	107.3	107.5	110.3	6.5
Imports	2,643.6	2,561.4	2,652.8	2,738.7	2,781.4	2,764.3	2,723.6	2,433.7	2,546.9	2,623.4	100.0
Oil	2,012.2	1,961.8	2,049.4	2,101.5	2,126.8	2,104.6	2,043.1	1,785.6	1,860.7	1,932.1	73.6
Gas	631.4	599.6	603.5	637.1	654.6	659.7	680.5	648.2	686.2	691.4	26.4
Gasoline	86.8	84.4	94.8	103.0	100.6	102.0	110.9	90.1	107.7	103.5	3.9
Diesel	177.9	177.0	189.9	202.8	201.6	199.6	199.3	188.0	192.7	196.6	7.5
Heating Oil	93.2	88.9	88.3	85.7	68.1	68.8	58.4	61.0	69.5	68.6	2.6
Aviation Jet	44.6	44.8	50.1	55.1	58.2	60.3	62.8	40.3	40.2	51.6	2.0
LPG	51.8	52.8	54.9	59.8	60.3	61.0	63.7	62.1	63.7	65.1	2.5
Exports	1,291.7	1,319.7	1,406.0	1,470.3	1,564.1	1,640.1	1,707.0	1,659.8	1,722.2	1,820.8	100.0
Oil	993.6	1,033.0	1,109.7	1,145.4	1,213.7	1,279.5	1,308.1	1,251.2	1,272.1	1,322.9	72.7
Gas	298.0	286.7	296.4	324.8	350.5	360.6	398.9	408.6	450.1	497.9	27.3
Gasoline	116.4	119.5	136.5	143.0	150.4	154.3	153.0	130.5	149.8	151.9	8.3
Diesel	201.6	195.4	207.2	212.5	226.1	210.9	215.0	201.9	202.7	214.2	11.8
Heating Oil	111.4	113.0	117.7	114.5	97.0	96.4	76.6	73.0	82.2	82.5	4.5
Aviation Jet	40.9	38.0	40.7	42.9	45.9	49.7	49.8	30.8	29.8	39.1	2.1
LPG	10.7	27.2	35.8	42.7	47.6	51.0	58.9	67.8	72.1	73.4	4.0
CO₂ Emissions (Million tons CO₂)	12,402.0	12,202.9	12,100.8	12,049.5	12,029.2	12,004.2	11,671.1	10,612.6	11,219.7	11,248.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	241.3	232.5	224.8	219.7	213.7	208.3	199.1	189.6	190.2	185.3	-
Final energy intensity (toe/million \$15ppp)	65.4	63.2	62.1	61.5	60.4	59.8	58.4	56.9	56.8	55.3	-
Total energy intensity (toe/million \$15ppp)	104.7	101.6	98.9	97.4	95.5	94.2	92.0	89.9	89.4	86.6	-

*Heat is included

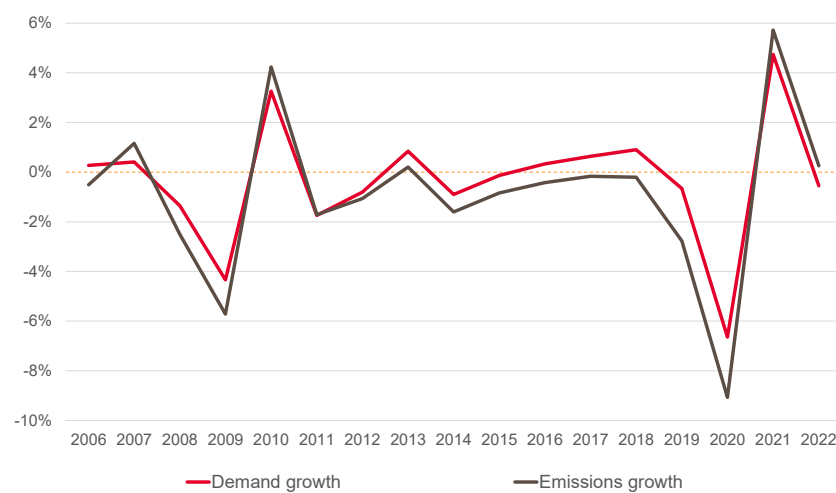
Primary energy demand mix



Electricity generation by source



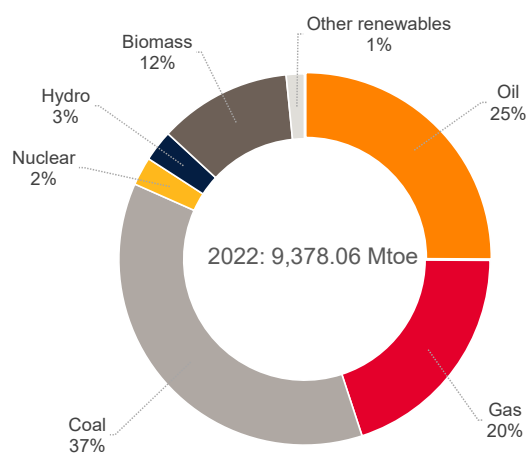
Primary energy demand and CO₂ emissions growth



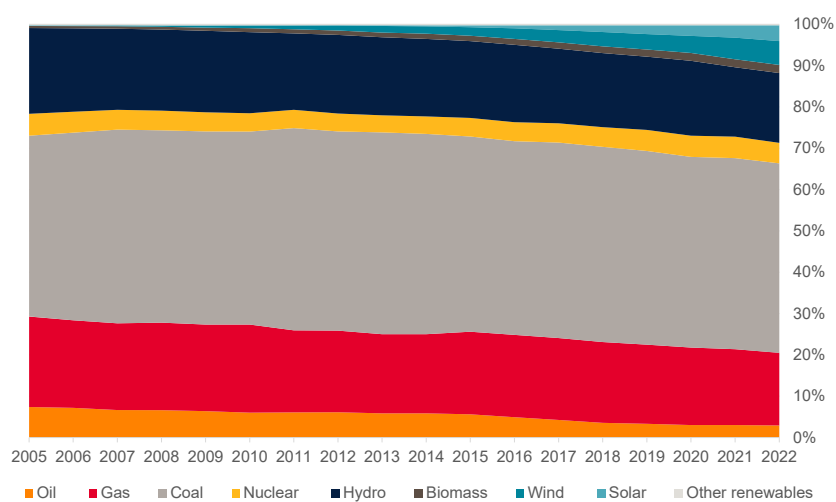
Non-OECD (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	7,652.2	7,861.8	7,870.0	7,962.5	8,207.6	8,502.4	8,709.4	8,636.7	9,071.9	9,378.1	100.0
Oil	1,950.5	2,036.6	2,058.8	2,114.0	2,162.5	2,181.2	2,224.4	2,124.5	2,215.7	2,328.5	24.8
Gas	1,513.1	1,533.4	1,533.4	1,582.6	1,651.3	1,757.5	1,782.4	1,766.3	1,892.6	1,848.6	19.7
Coal	2,876.3	2,939.8	2,898.4	2,835.8	2,914.9	3,022.6	3,096.0	3,097.1	3,250.0	3,407.1	36.3
Nuclear	134.7	144.7	156.1	167.5	177.4	190.2	209.5	213.0	233.1	229.1	2.4
Hydro	200.3	208.8	210.9	220.4	223.6	232.6	237.7	244.4	243.5	253.2	2.7
Biomass	909.4	922.2	925.5	941.3	958.4	979.9	1,002.5	1,019.8	1,034.3	1,074.9	11.5
Other renewables	19.1	23.2	29.0	39.6	52.2	67.7	80.8	92.8	122.3	146.0	1.6
Electricity balance of trade*	48.7	53.1	58.0	61.3	67.3	70.7	76.1	78.8	80.4	90.7	1.0
Total final consumption, by source	5,268.2	5,416.6	5,450.1	5,514.3	5,644.2	5,813.6	5,889.6	5,852.1	6,104.8	6,329.2	100.0
Oil	1,622.0	1,677.5	1,722.4	1,749.9	1,810.2	1,867.8	1,883.2	1,810.5	1,900.5	2,010.0	31.8
Gas	628.9	646.8	655.6	679.4	711.1	768.1	794.7	795.5	864.6	852.9	13.5
Coal	1,151.5	1,168.4	1,134.9	1,090.5	1,052.4	1,016.6	998.5	999.2	978.4	1,018.1	16.1
Electricity	858.7	906.7	921.9	964.1	1,023.2	1,090.5	1,127.5	1,143.4	1,234.2	1,276.7	20.2
Heat	244.3	246.5	246.1	259.1	268.5	285.7	290.3	297.5	317.8	324.9	5.1
Biomass	762.9	770.7	769.3	771.2	778.8	784.9	795.4	806.1	809.2	839.8	13.3
Electricity generation, by source	1,070.7	1,124.5	1,145.5	1,197.2	1,259.8	1,320.4	1,363.0	1,370.2	1,473.1	1,521.5	100.0
Oil	62.5	65.6	64.1	59.0	53.6	47.0	45.3	41.0	44.4	44.4	2.9
Gas	205.0	215.6	229.2	238.5	249.5	257.8	261.2	257.4	270.6	267.5	17.6
Coal	522.9	545.0	540.9	561.0	596.2	624.1	638.9	632.0	680.9	697.6	45.8
Nuclear	44.4	47.7	51.5	55.3	58.5	62.8	69.1	70.3	76.9	75.6	5.0
Hydro	202.2	210.9	213.2	224.2	227.6	236.6	241.7	248.3	247.4	257.0	16.9
Biomass	12.2	14.0	14.9	17.2	19.4	21.7	23.7	26.0	28.3	29.9	2.0
Wind	17.0	19.9	23.4	30.4	37.4	45.5	51.2	57.0	76.7	87.8	5.8
Solar	2.1	3.3	5.4	9.0	14.6	21.8	29.0	35.0	44.6	58.3	3.8
Other renewables	2.2	2.4	2.7	2.7	2.9	3.0	3.1	3.2	3.2	3.3	0.2
Total final consumption, by sector	5,268.2	5,416.6	5,450.1	5,514.3	5,644.2	5,813.6	5,889.6	5,852.1	6,104.8	6,329.2	100.0
Industry	2,117.9	2,173.3	2,134.9	2,118.1	2,135.8	2,182.6	2,213.6	2,242.7	2,306.0	2,362.5	37.3
Transport	972.4	1,001.8	1,032.4	1,056.8	1,095.3	1,144.0	1,158.8	1,070.7	1,140.3	1,218.0	19.2
Residential/Commercial	1,536.4	1,572.3	1,595.9	1,636.7	1,692.1	1,747.8	1,764.7	1,770.9	1,859.7	1,922.3	30.4
Oil final consumption, by sector	1,622.0	1,677.5	1,722.4	1,749.9	1,810.2	1,867.8	1,883.2	1,810.5	1,900.5	2,010.0	100.0
Industry	190.0	196.9	200.2	193.9	194.5	194.6	200.2	205.1	209.0	223.0	11.1
Transport	902.4	925.0	950.5	972.2	1,006.0	1,043.6	1,048.2	961.4	1,025.4	1,100.4	54.7
Residential/Commercial	154.5	159.0	165.3	168.6	176.6	182.2	178.8	177.4	186.0	193.0	9.6
Natural gas final consumption, by sector	628.9	646.8	655.6	679.4	711.1	768.1	794.7	795.5	864.6	852.9	100.0
Industry	270.8	278.6	278.0	280.4	293.2	315.7	333.5	333.7	360.6	353.6	41.5
Transport	31.4	35.1	37.3	38.6	40.7	45.3	48.5	47.4	51.2	53.1	6.2
Residential/Commercial	198.1	205.2	209.7	225.3	234.8	257.3	259.0	261.1	286.5	281.8	33.0
Refined products consumption	1,615.0	1,670.7	1,716.1	1,742.2	1,804.5	1,862.1	1,877.6	1,804.9	1,894.5	2,002.7	100.0
Gasoline	407.9	419.6	442.4	459.5	474.6	491.6	500.7	459.0	493.6	511.0	25.5
Diesel	611.8	620.8	625.4	618.0	632.5	647.4	635.6	592.6	622.9	674.2	33.7
Heating Oil	64.9	66.6	63.0	56.6	56.6	52.0	51.9	48.3	51.9	55.6	2.8
Aviation Jet	37.0	38.7	41.4	44.7	49.3	52.7	54.8	45.2	48.2	48.4	2.4
LPG	154.6	166.7	170.6	183.0	193.2	203.5	207.5	211.0	221.2	226.8	11.3
Imports	1,643.7	1,694.5	1,782.2	1,870.2	1,969.9	2,049.0	2,083.5	2,027.4	2,071.4	2,092.6	100.0
Oil	1,422.1	1,468.2	1,540.0	1,619.9	1,691.4	1,748.9	1,768.0	1,707.6	1,723.4	1,775.8	84.9
Gas	221.6	226.3	242.2	250.3	278.5	300.1	315.5	319.8	348.0	316.8	15.1
Gasoline	115.0	122.3	128.4	136.9	140.6	147.5	152.1	143.5	148.6	169.7	8.1
Diesel	166.9	177.2	180.1	186.2	192.2	191.5	185.6	169.7	182.9	202.7	9.7
Heating Oil	159.1	152.4	158.3	155.9	159.9	153.0	151.8	141.9	150.1	156.2	7.5
Aviation Jet	28.4	27.1	28.3	31.6	34.1	33.6	32.0	19.6	17.1	19.8	0.9
LPG	40.9	48.0	55.5	65.1	69.8	74.8	79.7	81.0	86.6	90.6	4.3
Exports	3,045.9	2,978.4	3,102.0	3,236.8	3,229.4	3,260.7	3,161.5	2,869.9	2,908.3	2,951.8	100.0
Oil	2,473.0	2,412.1	2,524.9	2,646.7	2,614.2	2,629.1	2,516.5	2,272.7	2,290.6	2,396.8	81.2
Gas	572.9	566.3	577.1	590.1	615.1	631.6	645.0	597.3	617.7	555.0	18.8
Gasoline	73.8	78.2	88.1	96.1	91.0	97.2	92.2	87.5	88.3	88.8	3.0
Diesel	156.9	165.8	179.5	199.4	204.5	220.0	208.3	195.2	203.1	192.9	6.5
Heating Oil	189.5	179.2	185.6	169.7	173.9	175.9	158.3	144.7	155.4	153.0	5.2
Aviation Jet	47.1	46.6	48.5	49.9	52.7	54.0	52.2	44.7	42.0	51.3	1.7
LPG	62.5	60.3	64.6	70.9	71.0	74.2	67.4	59.7	66.5	73.3	2.5
CO₂ Emissions (Million tons CO₂)	19,357.8	19,630.4	19,584.4	19,632.8	20,173.0	20,789.5	20,993.3	20,482.7	21,719.8	22,526.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	367.0	356.0	341.4	327.9	321.8	316.9	308.5	307.2	306.3	306.4	-
Final energy intensity (toe/million \$15ppp)	91.0	89.3	86.2	83.4	81.5	80.1	78.1	78.9	77.4	77.2	-
Total energy intensity (toe/million \$15ppp)	145.1	142.6	137.2	133.0	130.9	129.6	128.0	129.5	127.9	127.1	-

*Heat is included

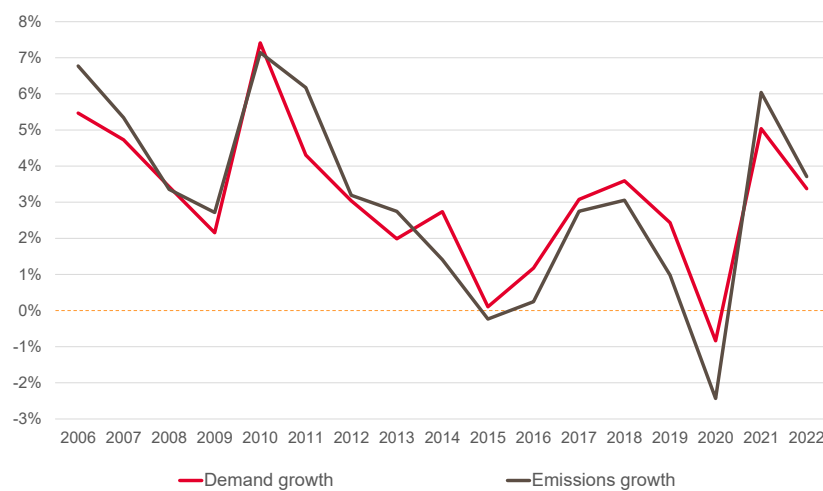
Primary energy demand mix



Electricity generation by source



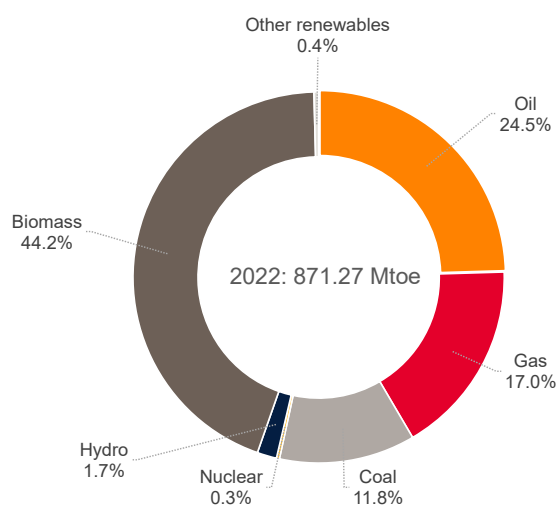
Primary energy demand and CO₂ emissions growth



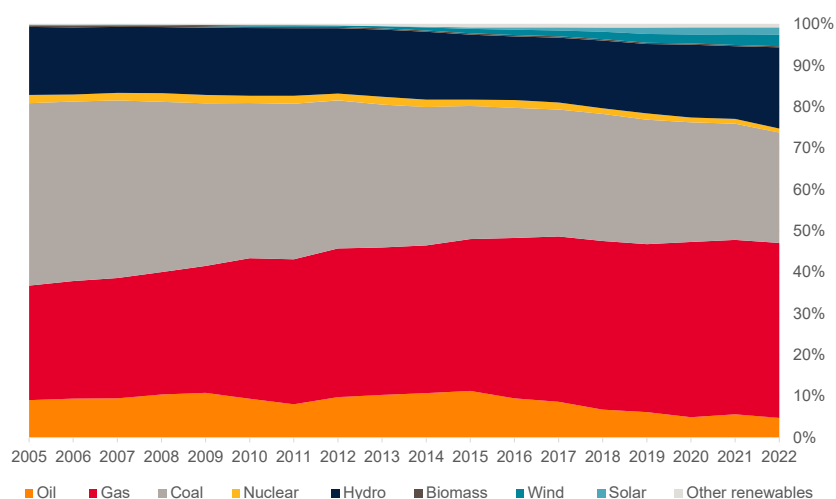
Africa (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	735.7	771.4	766.3	786.8	798.0	808.5	834.0	816.0	845.0	871.3	100.0
Oil	172.0	193.4	184.0	186.7	182.9	181.3	192.3	177.3	187.9	212.6	24.4
Gas	104.6	106.2	110.2	118.1	125.6	132.9	135.6	133.1	146.8	147.5	16.9
Coal	112.2	119.4	113.2	117.0	118.7	116.4	118.2	112.4	110.3	102.7	11.8
Nuclear	3.7	3.6	3.2	3.9	3.7	3.0	3.5	2.6	2.7	2.3	0.3
Hydro	10.1	10.6	10.4	10.3	10.7	11.6	12.0	12.5	13.1	14.7	1.7
Biomass	330.3	334.0	339.6	344.5	349.7	355.7	364.4	370.2	376.3	383.5	44.0
Other renewables	0.3	0.6	1.0	1.5	1.7	2.4	3.2	3.3	3.3	3.5	0.4
Electricity balance of trade*	2.6	3.6	4.6	4.8	5.0	5.3	4.8	4.6	4.5	4.5	0.5
Total final consumption, by source	523.7	534.8	540.4	550.6	564.7	575.9	582.1	575.1	597.0	605.0	100.0
Oil	147.8	153.1	153.3	156.2	158.1	161.4	164.2	154.9	165.2	169.5	28.0
Gas	33.2	32.3	35.4	35.8	38.0	42.2	42.6	41.0	45.2	45.5	7.5
Coal	20.4	21.5	19.2	19.7	23.5	23.9	20.3	18.7	18.0	16.3	2.7
Electricity	50.6	52.2	52.8	54.3	56.5	58.1	58.7	58.1	61.0	61.2	10.1
Heat	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Biomass	271.4	275.6	279.5	284.3	288.5	290.0	296.2	302.1	307.4	312.3	51.6
Electricity generation, by source	63.9	66.0	68.1	69.0	71.1	73.0	74.3	73.5	76.9	76.9	100.0
Oil	6.6	7.1	7.7	6.5	6.1	4.9	4.6	3.6	4.3	3.7	4.8
Gas	22.8	23.6	25.0	26.8	28.5	29.8	30.2	31.2	32.5	32.5	42.3
Coal	22.1	22.1	22.0	21.8	21.8	22.5	22.4	21.3	21.6	20.5	26.7
Nuclear	1.2	1.2	1.1	1.3	1.2	1.0	1.1	0.9	0.9	0.7	1.0
Hydro	10.4	10.9	10.7	10.6	11.2	12.0	12.5	12.9	13.5	15.1	19.7
Biomass	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Wind	0.3	0.5	0.7	0.9	1.0	1.3	1.6	1.6	1.9	2.1	2.8
Solar	0.0	0.1	0.2	0.4	0.5	0.8	1.2	1.3	1.4	1.4	1.8
Other renewables	0.3	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.7
Total final consumption, by sector	523.7	534.8	540.4	550.6	564.7	575.9	582.1	575.1	597.0	605.0	100.0
Industry	90.1	87.5	86.1	86.0	85.2	89.5	87.4	84.6	90.2	89.6	14.8
Transport	99.2	103.0	105.0	109.2	110.5	114.0	117.7	109.2	116.9	120.3	19.9
Residential/Commercial	306.0	315.2	319.2	324.4	337.0	339.1	344.4	349.1	355.8	360.6	59.6
Oil final consumption, by sector	147.8	153.1	153.3	156.2	158.1	161.4	164.2	154.9	165.2	169.5	100.0
Industry	17.4	18.3	17.7	17.6	16.9	17.1	16.1	15.2	16.7	17.1	10.1
Transport	98.3	102.2	104.2	108.4	109.7	113.1	116.7	108.3	115.7	119.2	70.3
Residential/Commercial	19.0	18.7	18.3	16.9	16.8	16.9	17.7	17.4	18.0	18.1	10.7
Natural gas final consumption, by sector	33.2	32.3	35.4	35.8	38.0	42.2	42.6	41.0	45.2	45.5	100.0
Industry	17.2	15.8	16.6	16.1	17.8	18.3	18.2	17.6	19.9	19.9	43.8
Transport	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	1.4
Residential/Commercial	7.5	8.1	8.9	9.3	10.0	12.0	12.4	12.3	12.8	13.0	28.6
Refined products consumption	147.8	153.1	153.3	156.2	158.1	161.4	164.2	154.9	165.2	169.5	100.0
Gasoline	42.9	44.2	45.7	48.1	48.8	50.4	51.7	49.3	52.6	55.0	32.5
Diesel	69.5	71.8	72.9	74.7	74.9	76.6	78.9	72.3	76.7	76.9	45.4
Heating Oil	6.8	7.3	6.0	5.6	5.3	5.4	4.5	4.3	5.0	5.4	3.2
Aviation Jet	1.8	1.7	1.8	2.0	2.1	2.3	2.5	1.6	1.7	2.1	1.2
LPG	13.1	13.0	13.4	13.6	14.0	14.4	15.1	15.5	16.6	16.4	9.7
Imports	147.1	160.2	162.7	169.9	165.0	157.2	165.9	158.0	168.9	166.4	100.0
Oil	140.3	153.0	149.7	154.7	150.4	146.3	157.5	148.2	157.3	151.5	91.0
Gas	6.8	7.2	13.0	15.2	14.6	10.9	8.4	9.8	11.6	15.0	9.0
Gasoline	30.9	32.9	32.3	37.1	36.9	32.0	39.8	39.3	41.9	43.3	26.0
Diesel	43.7	48.0	53.1	51.5	51.8	51.5	51.6	48.2	51.5	57.9	34.8
Heating Oil	7.8	9.6	9.3	8.1	7.5	6.3	6.1	5.9	6.0	15.8	9.5
Aviation Jet	4.2	4.2	4.8	5.1	5.8	6.4	6.1	3.8	4.6	5.2	3.1
LPG	6.5	7.0	7.5	7.8	7.9	8.4	8.5	9.0	8.9	7.6	4.6
Exports	456.9	428.7	435.9	415.6	440.3	443.7	446.1	364.0	392.3	351.5	100.0
Oil	383.9	356.1	363.5	336.5	354.5	359.0	365.8	289.7	303.5	270.5	77.0
Gas	73.0	72.6	72.4	79.0	85.8	84.6	80.4	74.3	88.8	81.0	23.0
Gasoline	1.5	1.5	1.7	2.1	2.0	1.9	1.6	1.6	1.3	1.1	0.3
Diesel	2.3	2.6	2.7	3.3	3.1	3.0	2.8	2.1	1.7	1.7	0.5
Heating Oil	10.7	9.5	10.0	10.7	9.8	12.1	11.9	12.3	12.8	10.0	2.8
Aviation Jet	4.2	3.6	4.3	2.8	3.6	3.6	3.3	3.1	2.0	1.7	0.5
LPG	7.2	9.5	9.8	9.5	9.3	8.9	8.2	7.6	9.1	9.2	2.6
CO₂ Emissions (Million tons CO₂)	1,133.7	1,179.1	1,171.6	1,185.8	1,216.4	1,239.4	1,258.4	1,166.5	1,245.7	1,272.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	208.9	210.1	202.4	200.6	198.6	195.8	193.6	183.1	186.7	184.1	-
Final energy intensity (toe/million \$15ppp)	93.5	92.4	90.4	90.1	89.2	87.9	86.7	87.3	86.5	84.6	-
Total energy intensity (toe/million \$15ppp)	135.5	137.5	132.4	133.1	130.3	127.7	128.3	128.1	126.7	126.1	-

*Heat is included

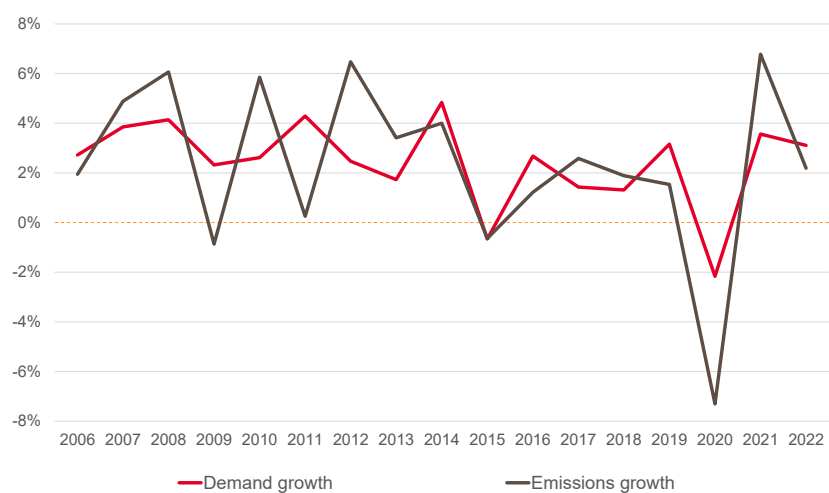
Primary energy demand mix



Electricity generation by source



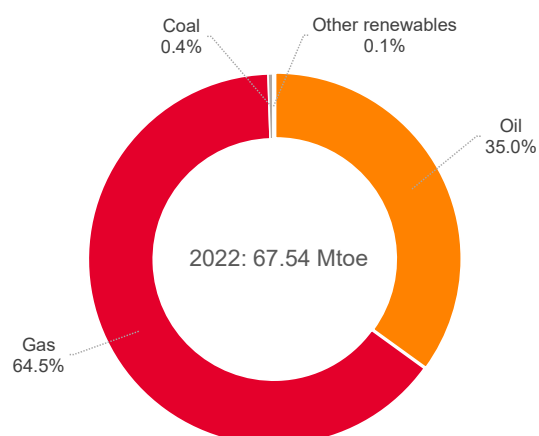
Primary energy demand and CO₂ emissions growth



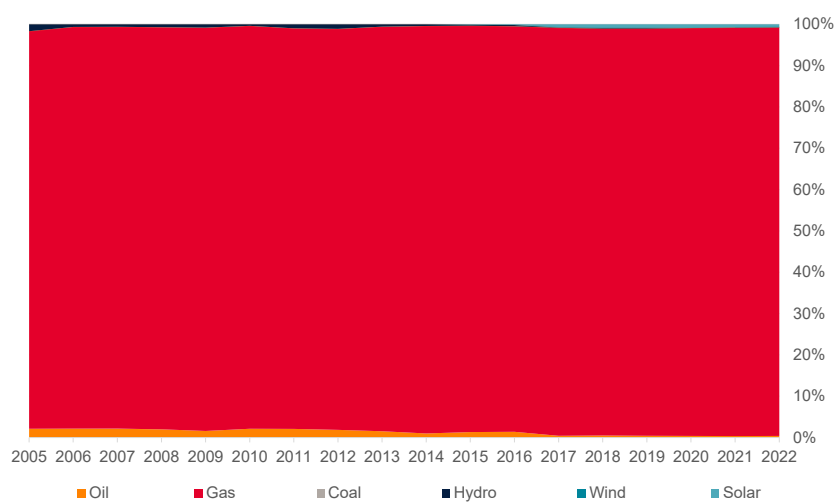
Algeria (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	49.1	53.6	56.0	55.6	57.2	60.9	63.0	59.8	63.6	67.5	100.0
Oil	20.2	21.1	21.5	20.9	21.0	21.6	22.5	21.0	20.6	23.7	35.1
Gas	28.6	32.3	34.4	34.7	35.9	38.9	40.1	38.6	42.8	43.8	64.8
Coal	0.2	0.2	0.1	0.0	0.2	0.4	0.3	0.1	0.3	0.3	0.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	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	0.1	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	-0.1	-0.3	-0.4
Total final consumption, by source	32.4	34.6	36.9	37.1	37.7	41.8	43.2	40.3	43.4	45.3	100.0
Oil	17.4	18.1	18.4	17.9	17.7	18.0	18.8	16.6	17.9	19.0	41.9
Gas	11.0	12.5	14.1	14.8	15.0	18.5	18.9	18.4	19.7	20.3	44.9
Coal	0.2	0.1	0.1	0.0	0.2	0.3	0.2	0.1	0.1	0.1	0.3
Electricity	3.7	3.9	4.3	4.5	4.8	5.0	5.3	5.2	5.6	5.8	12.9
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	5.2	5.5	5.9	6.1	6.5	6.6	7.0	6.8	7.3	7.9	100.0
Oil	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Gas	5.0	5.4	5.8	6.0	6.5	6.5	6.9	6.7	7.3	7.8	98.9
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	0.0	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	0.1	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	32.4	34.6	36.9	37.1	37.7	41.8	43.2	40.3	43.4	45.3	100.0
Industry	5.4	5.5	5.9	6.0	6.6	7.0	7.6	7.4	8.3	8.6	19.0
Transport	13.0	14.1	15.0	14.5	14.4	14.6	14.8	13.2	14.4	15.2	33.6
Residential/Commercial	10.7	10.5	11.6	11.8	12.7	14.7	15.7	15.1	15.8	16.4	36.2
Oil final consumption, by sector	17.4	18.1	18.4	17.9	17.7	18.0	18.8	16.6	17.9	19.0	100.0
Industry	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.5	0.5	2.6
Transport	13.0	14.0	14.9	14.4	14.3	14.5	14.7	13.1	14.3	15.1	79.4
Residential/Commercial	2.6	1.9	2.0	1.9	2.1	2.3	2.8	2.5	2.7	2.9	15.2
Natural gas final consumption, by sector	11.0	12.5	14.1	14.8	15.0	18.5	18.9	18.4	19.7	20.3	100.0
Industry	3.1	3.3	3.4	3.6	3.9	4.3	4.9	5.0	5.7	5.9	29.0
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	5.8	6.2	7.0	7.2	7.7	9.3	9.6	9.7	9.8	10.1	49.7
Refined products consumption	17.4	18.1	18.4	17.9	17.7	18.0	18.8	16.6	17.9	19.0	100.0
Gasoline	4.1	4.4	4.7	4.6	4.4	4.2	4.2	3.6	3.7	3.6	19.1
Diesel	9.8	9.9	10.5	10.3	10.2	10.5	10.9	9.4	9.9	10.6	55.9
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.7
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.4
LPG	2.4	2.2	2.2	2.2	2.3	2.6	2.8	2.9	3.7	4.0	21.1
Imports	5.5	3.5	4.4	3.9	3.8	1.0	2.1	1.1	0.6	0.6	100.0
Oil	5.5	3.5	4.4	3.9	3.8	1.0	2.1	1.1	0.6	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	1.7	1.1	1.7	1.7	1.7	0.1	0.6	0.4	0.0	0.0	0.0
Diesel	2.8	1.1	1.8	1.5	1.5	0.3	0.9	0.3	0.0	0.0	0.0
Heating Oil	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	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	96.9	95.0	95.0	104.6	102.1	95.1	87.3	77.3	91.4	89.6	100.0
Oil	56.6	57.0	58.0	58.7	56.2	51.3	50.9	43.7	44.6	46.8	52.3
Gas	40.3	38.0	37.0	45.9	45.9	43.7	36.4	33.6	46.8	42.8	47.7
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Heating Oil	5.1	6.2	6.4	6.7	6.1	5.6	5.5	5.6	5.2	5.4	6.0
Aviation Jet	1.2	1.6	1.1	1.2	1.2	1.0	0.7	0.8	0.5	0.3	0.4
LPG	6.3	8.5	8.9	8.6	8.2	7.8	7.4	6.6	8.2	8.3	9.3
CO₂ Emissions (Million tons CO₂)	118.4	127.3	135.5	133.4	134.7	143.4	147.9	139.4	151.5	158.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	266.9	276.6	283.8	270.9	270.0	284.3	290.3	288.2	301.8	306.9	-
Final energy intensity (toe/million \$15ppp)	67.2	67.2	69.6	67.3	69.2	73.8	76.8	76.0	78.7	79.9	-
Total energy intensity (toe/million \$15ppp)	110.7	116.3	117.4	112.8	114.6	120.8	123.7	123.6	126.6	130.7	-

*Heat is included

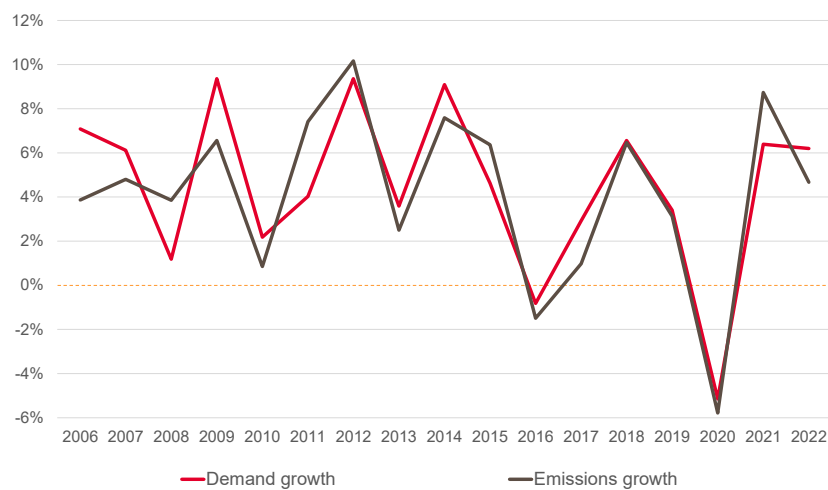
Primary energy demand mix



Electricity generation by source



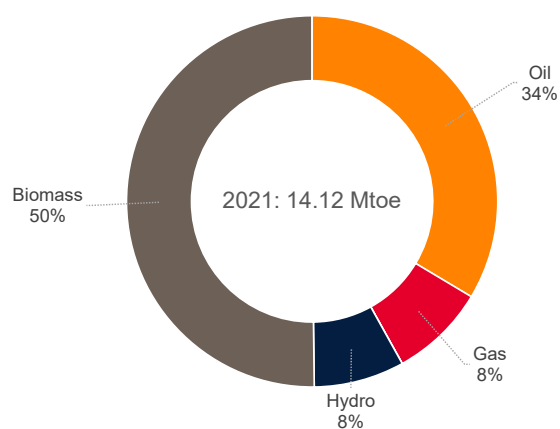
Primary energy demand and CO₂ emissions growth



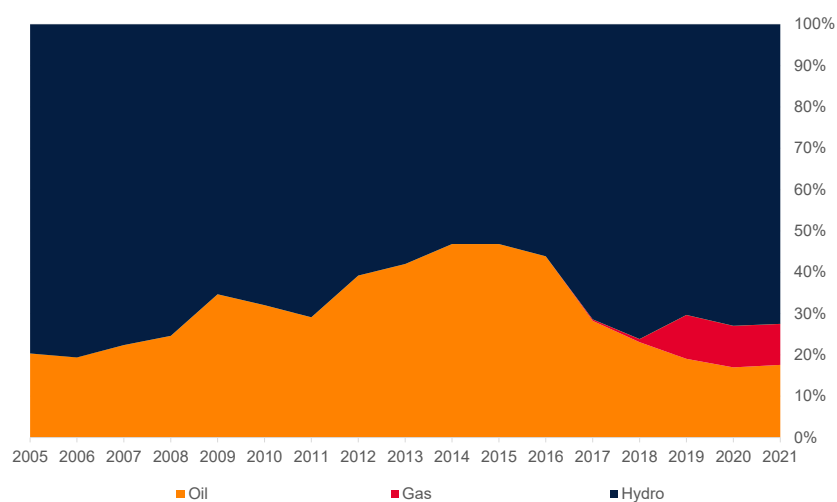
Angola (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2021 (%)
Total primary energy demand, by source	13.2	17.4	15.3	13.6	13.0	15.4	14.9	13.0	14.1	n.d.	100.0
Oil	6.5	10.7	8.1	6.3	5.4	7.3	6.5	4.4	5.4	n.d.	38.2
Gas	0.3	0.2	0.6	0.7	0.7	0.9	1.1	1.1	1.1	n.d.	7.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	0.4	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.0	n.d.	7.3
Biomass	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.5	6.6	n.d.	46.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity balance of trade*	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	n.d.	0.0
Total final consumption, by source	10.4	10.5	10.7	10.7	9.7	10.1	10.7	9.8	9.8	n.d.	100.0
Oil	5.0	5.0	4.7	4.6	3.8	3.8	4.3	3.3	3.2	n.d.	32.7
Gas	0.3	0.2	0.6	0.6	0.3	0.6	0.4	0.3	0.3	n.d.	3.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity	0.6	0.7	0.7	0.8	0.8	1.0	1.1	1.2	1.2	n.d.	12.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	4.5	4.6	4.6	4.7	4.8	4.8	4.9	5.0	5.0	n.d.	51.4
Electricity generation, by source	0.7	0.8	0.8	0.9	0.9	1.1	1.3	1.4	1.4	n.d.	100.0
Oil	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	n.d.	17.6
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	n.d.	9.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	0.4	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.0	n.d.	72.5
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Other renewables	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	n.d.	0.0
Total final consumption, by sector	10.4	10.5	10.7	10.7	9.7	10.1	10.7	9.8	9.8	n.d.	100.0
Industry	0.9	0.8	1.2	1.3	0.9	1.2	1.1	1.0	1.0	n.d.	10.5
Transport	2.6	2.7	2.7	2.7	2.3	2.3	2.7	1.9	1.9	n.d.	19.1
Residential/Commercial	6.6	6.6	6.5	6.5	6.3	6.4	6.8	6.7	6.7	n.d.	68.6
Oil final consumption, by sector	5.0	5.0	4.7	4.6	3.8	3.8	4.3	3.3	3.2	n.d.	100.0
Industry	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	n.d.	5.5
Transport	2.6	2.7	2.7	2.7	2.3	2.3	2.7	1.9	1.9	n.d.	58.4
Residential/Commercial	1.8	1.7	1.5	1.4	1.1	1.1	1.2	1.0	1.0	n.d.	30.6
Natural gas final consumption, by sector	0.3	0.2	0.6	0.6	0.3	0.6	0.4	0.3	0.3	n.d.	100.0
Industry	0.3	0.2	0.6	0.6	0.3	0.6	0.4	0.3	0.3	n.d.	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Refined products consumption	5.0	5.0	4.7	4.6	3.8	3.8	4.3	3.3	3.2	n.d.	100.0
Gasoline	1.0	1.1	1.0	0.9	0.7	0.7	0.7	0.5	0.5	n.d.	17.0
Diesel	3.2	3.2	3.1	3.0	2.4	2.4	2.8	2.0	1.9	n.d.	60.2
Heating Oil	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.1	n.d.	2.8
Aviation Jet	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	n.d.	13.7
Imports	4.9	5.8	5.4	4.4	3.5	3.4	3.3	2.2	2.9	n.d.	100.0
Oil	4.9	5.8	5.4	4.4	3.5	3.4	3.3	2.2	2.9	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	1.1	1.5	1.3	1.1	1.0	1.2	1.2	0.9	1.0	n.d.	35.0
Diesel	3.3	3.7	3.6	3.0	2.3	2.0	1.9	1.2	1.7	n.d.	60.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Aviation Jet	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	n.d.	0.0
LPG	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Exports	86.4	83.2	88.3	85.4	81.5	74.2	69.2	65.3	56.2	n.d.	100.0
Oil	86.0	82.9	88.3	84.6	77.4	69.8	64.7	60.2	52.3	n.d.	93.1
Gas	0.4	0.4	0.0	0.7	4.1	4.4	4.5	5.1	3.9	n.d.	6.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Heating Oil	0.4	0.4	0.6	0.6	0.6	0.4	0.3	0.3	0.2	n.d.	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.1	0.2	0.1	0.0	0.2	0.4	0.1	0.2	0.2	n.d.	0.4
CO₂ Emissions (Million tons CO₂)	19.4	21.0	21.7	19.5	16.8	17.3	19.0	15.3	15.9	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	100.4	103.7	105.9	97.7	84.6	88.2	97.6	82.8	85.8	n.d.	-
Final energy intensity (toe/million \$15ppp)	52.2	50.4	51.2	52.5	47.7	50.6	53.7	52.0	51.7	n.d.	-
Total energy intensity (toe/million \$15ppp)	68.3	85.9	74.7	68.2	65.5	78.7	76.5	70.7	76.1	n.d.	-

*Heat is included

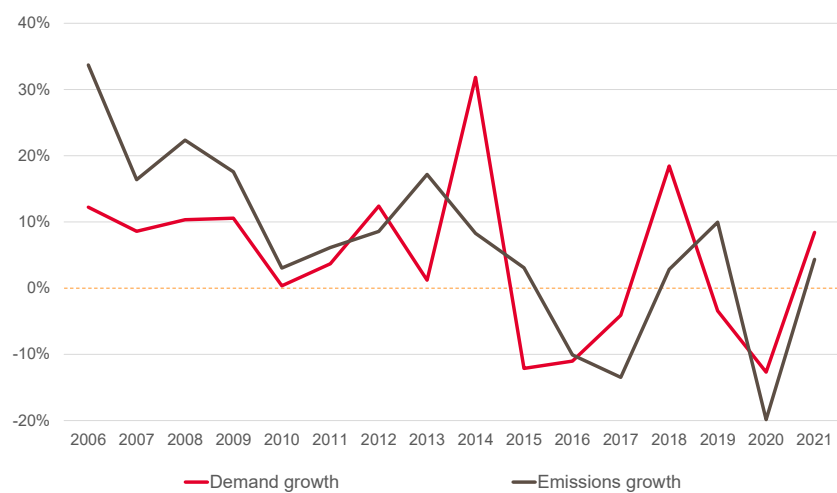
Primary energy demand mix



Electricity generation by source



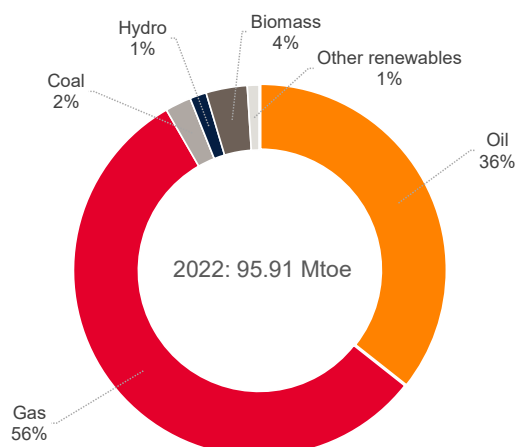
Primary energy demand and CO₂ emissions growth



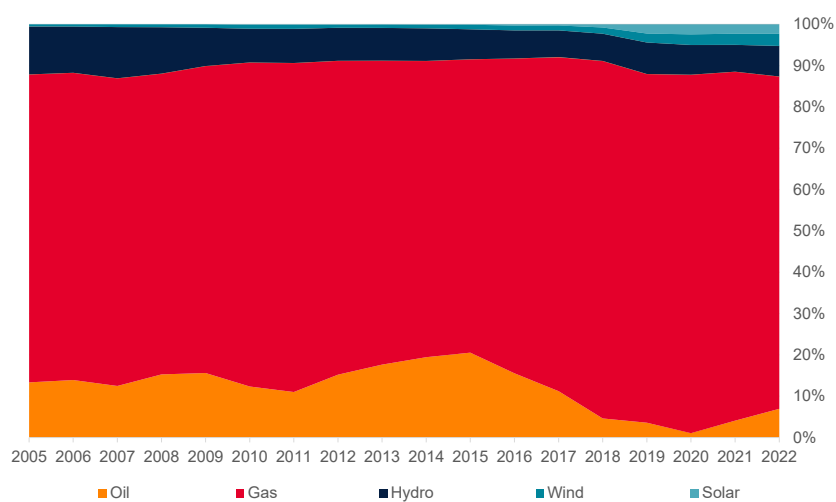
Egypt (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	78.6	81.2	80.6	88.7	92.9	91.9	91.8	87.7	95.0	95.9	100.0
Oil	36.1	41.4	38.9	41.4	37.2	32.5	31.9	29.9	32.3	34.2	35.7
Gas	37.6	34.9	36.8	41.5	48.9	51.8	52.7	51.0	54.8	53.8	56.1
Coal	0.4	0.4	0.4	1.2	2.2	2.8	1.9	1.4	2.5	2.2	2.3
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	1.2	1.2	1.1	1.1	1.1	1.3	1.3	1.2	1.4	1.4
Biomass	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.6
Other renewables	0.1	0.1	0.2	0.2	0.2	0.4	0.7	0.9	0.9	1.0	1.0
Electricity balance of trade*	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.2	-0.1	-0.1	-0.1
Total final consumption, by source	54.4	53.8	55.2	57.2	60.3	61.8	58.1	57.4	62.8	63.1	100.0
Oil	28.7	30.1	30.0	31.0	29.7	29.7	27.2	27.0	29.4	29.9	47.3
Gas	11.9	9.1	10.5	11.0	13.4	14.0	14.0	13.5	14.8	14.6	23.1
Coal	0.4	0.4	0.3	1.2	2.1	2.8	1.9	1.4	2.5	2.2	3.5
Electricity	11.9	12.7	12.9	12.4	13.4	13.6	13.4	13.9	14.5	14.8	23.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	2.5
Electricity generation, by source	14.5	15.1	16.0	16.3	16.9	17.2	17.0	17.6	18.4	18.8	100.0
Oil	2.5	2.9	3.3	2.5	1.9	0.8	0.6	0.2	0.7	1.3	6.9
Gas	10.6	10.8	11.4	12.4	13.7	14.9	14.3	15.3	15.5	15.1	80.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.2	1.2	1.1	1.1	1.1	1.3	1.3	1.2	1.4	7.4
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.6	3.0
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.4	0.4	2.3
Other renewables	-0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	54.4	53.8	55.2	57.2	60.3	61.8	58.1	57.4	62.8	63.1	100.0
Industry	14.6	13.3	13.5	14.3	16.5	17.3	14.6	14.1	16.6	16.3	25.9
Transport	17.1	17.9	18.3	19.1	18.6	18.7	17.4	17.2	19.1	19.5	30.9
Residential/Commercial	15.6	16.5	16.8	16.2	17.2	17.3	17.2	17.4	17.9	17.9	28.3
Oil final consumption, by sector	28.7	30.1	30.0	31.0	29.7	29.7	27.2	27.0	29.4	29.9	100.0
Industry	4.9	5.4	4.8	5.0	4.4	4.5	3.5	3.5	4.1	4.3	14.3
Transport	16.7	17.5	18.0	18.8	18.2	18.3	16.9	16.7	18.4	18.8	63.0
Residential/Commercial	4.7	4.7	4.8	4.8	4.6	4.4	4.1	4.1	4.0	3.8	12.6
Natural gas final consumption, by sector	11.9	9.1	10.5	11.0	13.4	14.0	14.0	13.5	14.8	14.6	100.0
Industry	6.1	4.3	5.1	4.5	6.2	6.2	5.7	5.5	6.0	5.9	40.4
Transport	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	4.3
Residential/Commercial	1.3	1.5	1.5	1.7	1.9	2.2	2.3	2.2	2.4	2.4	16.5
Refined products consumption	28.7	30.1	30.0	31.0	29.7	29.7	27.2	27.0	29.4	29.9	100.0
Gasoline	6.3	6.8	7.3	7.8	7.6	7.7	7.1	7.0	7.5	7.9	26.5
Diesel	12.9	13.3	13.3	14.0	13.5	13.5	12.5	12.6	13.9	13.9	46.7
Heating Oil	2.6	3.1	2.4	2.3	1.8	1.9	1.0	1.0	1.4	1.6	5.3
Aviation Jet	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.4	0.5	0.5	1.7
LPG	4.7	4.7	4.8	4.8	4.6	4.4	4.1	4.1	4.0	3.8	12.7
Imports	15.9	20.6	25.5	30.3	25.9	20.5	19.0	21.0	25.8	20.5	100.0
Oil	15.9	20.6	19.8	22.5	19.3	18.0	19.0	19.3	22.4	15.1	73.4
Gas	0.0	0.0	5.7	7.8	6.6	2.5	0.0	1.8	3.4	5.5	26.6
Gasoline	1.7	2.3	2.7	3.1	2.9	2.9	1.5	1.5	1.7	1.4	6.8
Diesel	6.0	6.5	7.3	8.1	7.0	7.1	3.5	2.5	2.1	2.5	12.1
Heating Oil	2.9	4.1	3.7	2.2	0.5	0.0	0.0	0.0	0.0	0.5	2.5
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	2.3	2.5	2.6	2.8	2.6	2.5	2.2	2.2	2.0	1.8	8.6
Exports	15.6	14.3	15.5	14.5	15.0	18.7	21.5	20.3	26.6	18.1	100.0
Oil	13.9	14.0	15.3	13.4	14.0	16.7	17.4	18.6	19.0	10.2	56.5
Gas	1.7	0.3	0.2	1.1	1.0	2.0	4.1	1.7	7.6	7.9	43.5
Gasoline	0.0	0.0	0.2	0.2	0.3	0.4	0.1	0.1	0.0	0.0	0.1
Diesel	0.0	0.0	0.0	0.1	0.8	0.7	0.5	0.1	0.1	0.2	0.9
Heating Oil	0.0	0.0	0.2	0.1	0.2	3.3	4.4	4.8	5.2	2.7	14.7
Aviation Jet	0.5	0.5	1.0	0.9	1.0	1.3	1.5	1.5	0.9	0.6	3.5
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)	195.8	198.1	205.1	214.4	225.9	220.9	202.6	198.4	216.9	216.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	197.6	194.3	192.8	193.1	195.3	181.3	157.5	148.9	157.6	147.5	-
Final energy intensity (toe/million \$15ppp)	49.2	48.2	47.2	46.1	46.5	45.1	39.4	37.7	40.0	37.7	-
Total energy intensity (toe/million \$15ppp)	79.3	79.6	75.8	79.8	80.3	75.5	71.4	65.8	69.0	65.4	-

*Heat is included

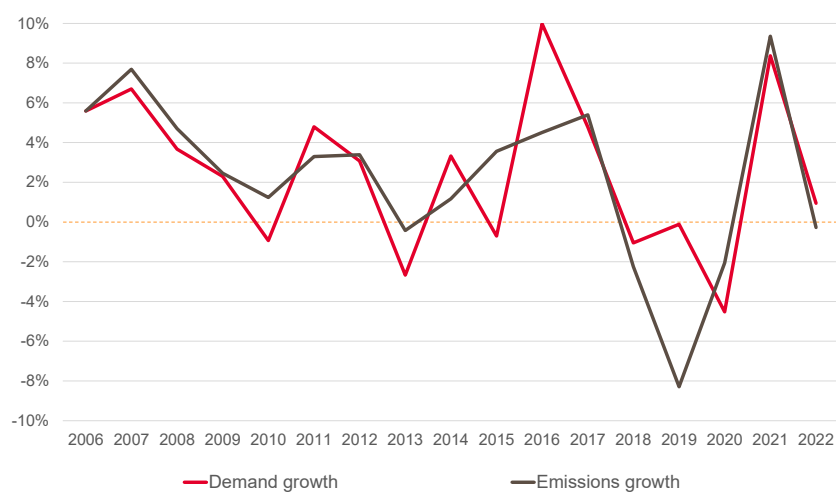
Primary energy demand mix



Electricity generation by source



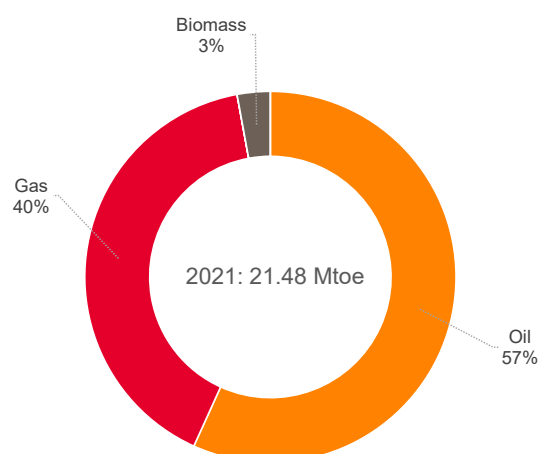
Primary energy demand and CO₂ emissions growth



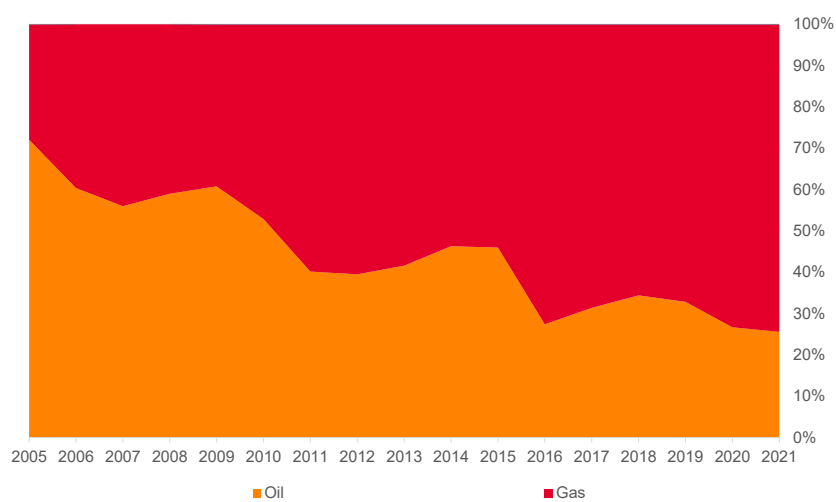
Libya (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2021 (%)
Total primary energy demand, by source	17.3	22.8	18.3	18.2	17.5	17.2	22.4	16.3	21.5	n.d.	100.0
Oil	7.5	14.0	10.9	8.7	9.0	8.9	14.8	8.6	12.1	n.d.	56.5
Gas	9.2	8.2	6.8	8.8	7.9	7.7	6.9	6.9	8.6	n.d.	40.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	n.d.	2.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity balance of trade*	0.0	0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	n.d.	0.5
Total final consumption, by source	11.1	11.3	9.1	9.3	8.8	8.9	9.0	8.7	9.0	n.d.	100.0
Oil	7.4	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	n.d.	72.6
Gas	1.8	1.7	1.6	0.8	0.5	0.5	0.5	0.5	0.6	n.d.	6.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity	1.6	1.5	1.3	1.2	1.2	1.5	1.5	1.5	1.6	n.d.	17.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	n.d.	3.0
Electricity generation, by source	3.3	3.2	3.2	2.7	2.9	2.9	3.0	2.5	2.7	n.d.	100.0
Oil	1.4	1.5	1.5	0.7	0.9	1.0	1.0	0.7	0.7	n.d.	25.6
Gas	1.9	1.7	1.7	2.0	2.0	1.9	2.0	1.9	2.0	n.d.	74.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	n.d.	-0.0
Total final consumption, by sector	11.1	11.3	9.1	9.3	8.8	8.9	9.0	8.7	9.0	n.d.	100.0
Industry	1.9	1.9	1.2	1.0	0.8	0.9	0.8	0.7	0.7	n.d.	8.3
Transport	6.0	6.6	5.1	6.2	5.8	5.7	5.8	5.7	5.7	n.d.	64.2
Residential/Commercial	2.3	2.0	1.7	1.7	1.7	2.0	2.0	2.0	2.1	n.d.	23.4
Oil final consumption, by sector	7.4	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	n.d.	100.0
Industry	0.7	0.7	0.4	0.4	0.4	0.5	0.4	0.3	0.3	n.d.	5.3
Transport	6.0	6.6	5.1	6.2	5.8	5.7	5.8	5.7	5.7	n.d.	88.4
Residential/Commercial	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	n.d.	6.0
Natural gas final consumption, by sector	1.8	1.7	1.6	0.8	0.5	0.5	0.5	0.5	0.6	n.d.	100.0
Industry	1.0	1.1	0.6	0.4	0.3	0.3	0.3	0.3	0.4	n.d.	60.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Refined products consumption	7.4	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	n.d.	100.0
Gasoline	4.1	4.1	4.0	4.2	4.2	4.2	4.3	4.7	4.7	n.d.	73.0
Diesel	1.9	2.5	1.1	1.9	1.6	1.4	1.5	1.0	1.0	n.d.	15.2
Heating Oil	0.7	0.7	0.4	0.4	0.4	0.5	0.4	0.3	0.3	n.d.	5.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.2
LPG	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	n.d.	5.2
Imports	5.9	8.2	6.9	6.2	6.0	5.8	6.7	7.0	6.4	n.d.	100.0
Oil	5.9	8.2	6.9	6.2	6.0	5.8	6.7	7.0	6.4	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	3.4	3.5	3.5	3.8	3.7	3.8	4.1	4.6	4.6	n.d.	70.7
Diesel	2.2	4.4	3.3	2.2	2.1	1.9	2.4	1.9	1.6	n.d.	24.9
Heating Oil	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.5	0.2	n.d.	3.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Exports	54.9	25.1	23.4	21.8	46.5	58.0	61.2	22.8	62.7	n.d.	100.0
Oil	50.2	19.8	17.6	17.8	42.7	54.4	56.5	19.2	59.0	n.d.	94.1
Gas	4.7	5.3	5.8	3.9	3.8	3.7	4.7	3.7	3.7	n.d.	5.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Heating Oil	2.1	0.0	0.3	0.4	0.3	0.2	0.0	0.0	0.0	n.d.	0.0
Aviation Jet	1.0	0.4	0.3	0.1	0.4	0.6	0.4	0.1	0.3	n.d.	0.5
LPG	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	n.d.	0.1
CO₂ Emissions (Million tons CO₂)	53.3	52.7	46.5	43.7	44.2	44.9	45.2	39.5	41.3	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	296.5	380.7	338.9	323.3	246.9	232.4	263.0	302.5	240.7	n.d.	-
Final energy intensity (toe/million \$15ppp)	56.9	76.9	59.4	66.1	47.4	44.8	50.9	65.1	50.7	n.d.	-
Total energy intensity (toe/million \$15ppp)	96.3	164.8	133.5	134.3	97.7	88.7	130.3	124.8	125.2	n.d.	-

*Heat is included

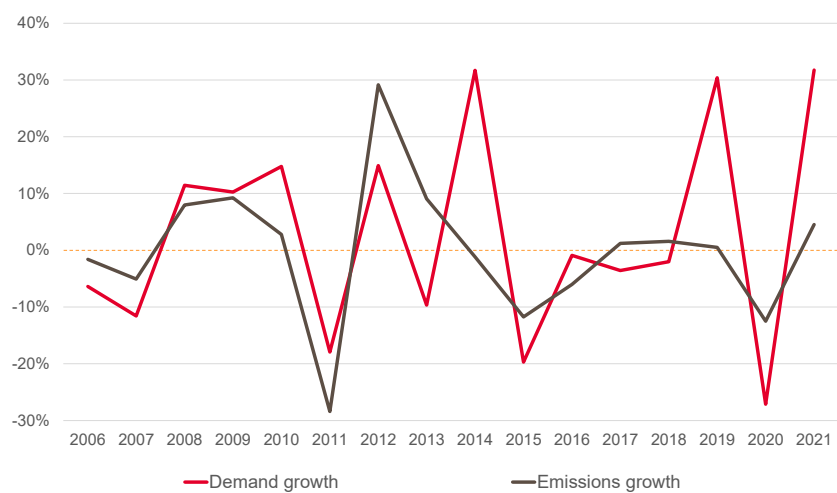
Primary energy demand mix



Electricity generation by source



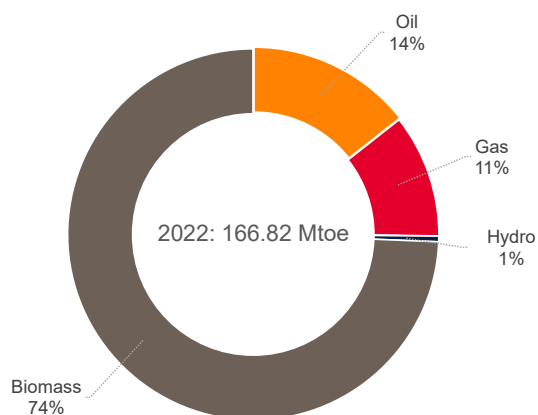
Primary energy demand and CO₂ emissions growth



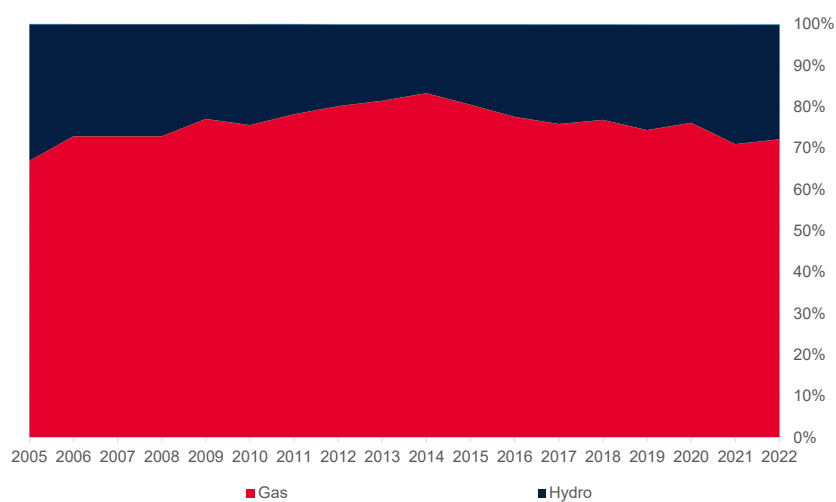
Nigeria (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	142.9	146.4	144.2	149.4	149.6	148.9	158.2	159.0	164.7	166.8	100.0
Oil	21.4	23.2	19.0	21.3	20.5	17.1	24.0	22.7	23.4	24.0	14.4
Gas	12.5	14.3	14.2	15.0	14.2	15.0	15.3	15.4	18.2	17.9	10.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.9	0.8	0.5
Biomass	108.5	108.5	110.4	112.3	114.2	116.2	118.1	120.2	122.2	124.1	74.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by source	123.6	126.0	126.0	128.4	130.0	133.3	136.9	136.4	141.0	143.2	100.0
Oil	18.0	20.1	18.2	19.0	18.9	20.2	21.9	19.4	20.9	21.5	15.0
Gas	3.3	3.8	3.8	3.7	3.5	3.7	3.8	3.8	4.8	4.7	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	2.0	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.6	2.5	1.8
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	100.2	100.0	101.8	103.6	105.3	107.1	108.9	110.8	112.7	114.4	79.9
Electricity generation, by source	2.5	2.8	2.9	3.1	2.8	2.9	2.8	2.8	3.1	3.0	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	2.0	2.3	2.3	2.4	2.1	2.2	2.1	2.1	2.2	2.1	72.2
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	0.6	0.7	0.7	0.7	0.7	0.7	0.9	0.8	27.7
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	123.6	126.0	126.0	128.4	130.0	133.3	136.9	136.4	141.0	143.2	100.0
Industry	9.9	7.3	7.3	7.3	7.2	7.3	7.4	7.4	8.2	8.3	5.8
Transport	15.3	16.7	15.2	17.4	17.4	18.7	20.2	17.3	18.6	19.2	13.4
Residential/Commercial	97.2	100.4	101.9	102.2	104.0	105.9	108.0	110.2	112.4	114.0	79.6
Oil final consumption, by sector	18.0	20.1	18.2	19.0	18.9	20.2	21.9	19.4	20.9	21.5	100.0
Industry	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	2.3
Transport	15.3	16.7	15.2	17.4	17.4	18.7	20.2	17.3	18.6	19.2	89.5
Residential/Commercial	2.3	2.7	2.3	0.8	0.9	0.9	1.2	1.5	1.7	1.7	7.9
Natural gas final consumption, by sector	3.3	3.8	3.8	3.7	3.5	3.7	3.8	3.8	4.8	4.7	100.0
Industry	2.1	2.5	2.4	2.4	2.3	2.4	2.4	2.5	3.1	3.1	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	18.0	20.1	18.2	19.0	18.9	20.2	21.9	19.4	20.9	21.5	100.0
Gasoline	12.5	13.7	12.5	13.7	13.7	14.4	15.4	13.7	15.2	16.2	75.3
Diesel	2.6	2.9	2.6	3.5	3.5	4.0	4.5	3.5	3.3	2.9	13.3
Heating Oil	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	2.2
Aviation Jet	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.9
LPG	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.8	0.9	0.8	3.7
Imports	17.7	20.6	17.3	19.9	18.5	13.4	22.8	22.7	23.7	24.1	100.0
Oil	17.7	20.6	17.3	19.9	18.5	13.4	22.8	22.7	23.7	24.1	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	13.3	14.5	11.1	14.5	13.3	8.6	16.8	15.7	17.5	18.7	77.4
Diesel	2.2	3.4	3.9	4.0	3.8	3.5	4.3	5.0	3.9	3.5	14.5
Heating Oil	0.0	0.1	0.1	0.3	0.3	0.0	0.0	0.1	0.0	0.0	0.1
Aviation Jet	0.4	0.4	0.4	0.6	0.7	0.9	0.8	0.6	0.9	0.7	2.9
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	0.5	0.4	1.5
Exports	125.4	129.4	129.7	110.0	114.4	117.8	123.2	99.6	82.5	72.3	100.0
Oil	107.6	109.1	108.2	90.5	91.8	95.5	100.8	77.1	63.9	56.4	78.0
Gas	17.8	20.4	21.5	19.4	22.7	22.3	22.4	22.5	18.5	15.9	22.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.3	0.3	0.1	0.2	0.5	0.1	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)	84.2	93.2	87.3	90.6	88.5	93.0	97.7	90.3	100.5	101.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	93.5	97.4	88.8	93.7	90.8	93.6	96.2	90.6	97.2	95.4	-
Final energy intensity (toe/million \$15ppp)	135.9	130.0	126.6	131.2	131.9	132.7	133.5	135.4	134.8	132.6	-
Total energy intensity (toe/million \$15ppp)	158.7	152.9	146.7	154.5	153.4	149.9	155.8	159.4	159.3	156.3	-

*Heat is included

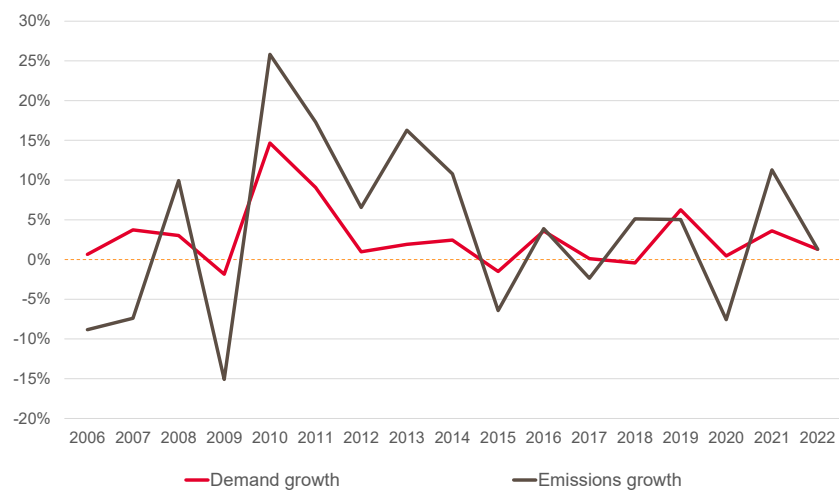
Primary energy demand mix



Electricity generation by source



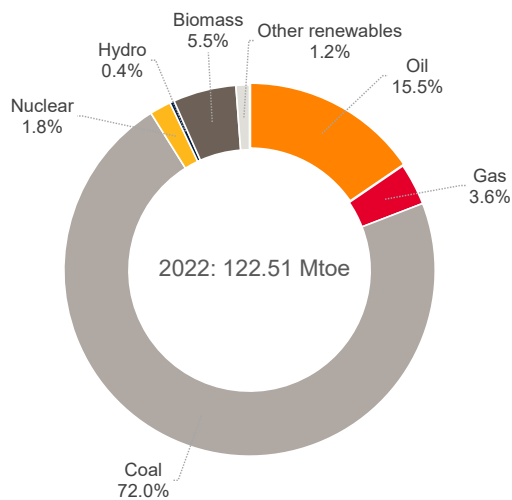
Primary energy demand and CO₂ emissions growth



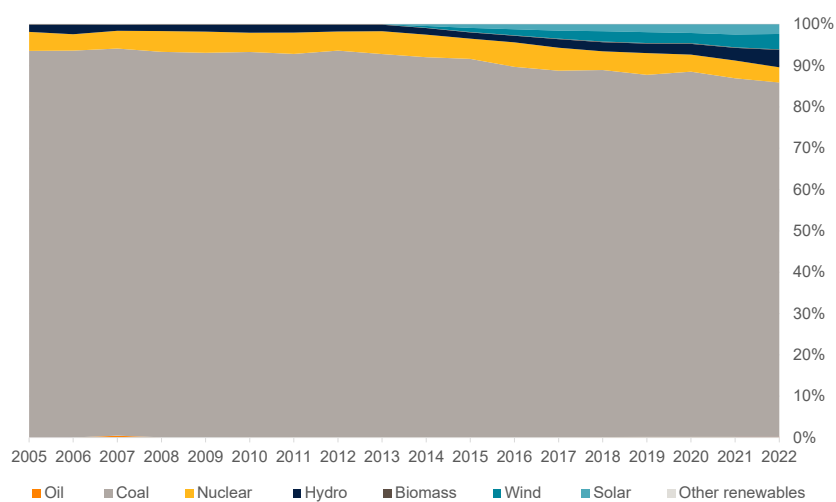
South Africa (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	136.3	143.1	136.5	140.6	140.1	137.2	136.7	132.2	128.3	122.5	100.0
Oil	18.2	20.0	20.1	20.4	19.7	21.7	19.0	19.3	19.4	19.0	15.5
Gas	4.1	3.9	4.3	4.2	4.1	4.3	4.3	4.2	4.5	4.5	3.6
Coal	103.7	109.1	102.5	105.7	105.8	101.5	102.9	98.6	93.7	88.2	72.0
Nuclear	3.7	3.6	3.2	3.9	3.7	3.0	3.5	2.6	2.7	2.3	1.9
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.4
Biomass	6.8	6.4	6.1	6.0	6.3	5.9	6.0	6.3	6.4	6.7	5.5
Other renewables	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.2	1.4	1.4	1.2
Electricity balance of trade*	-0.3	-0.1	-0.0	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.0	-0.0
Total final consumption, by source	61.5	60.7	59.0	58.3	63.9	62.6	59.0	56.2	56.1	55.0	100.0
Oil	19.4	18.4	19.7	18.3	21.0	20.5	19.8	18.9	20.5	20.8	37.7
Gas	2.2	2.2	2.2	2.2	2.3	2.1	2.2	2.0	2.2	2.2	3.9
Coal	18.0	18.6	16.4	16.1	18.6	18.2	15.3	14.4	11.9	10.9	19.7
Electricity	16.9	16.8	16.4	17.6	17.5	17.5	17.1	16.3	16.8	16.5	29.9
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	4.8	4.5	4.2	4.1	4.4	4.2	4.3	4.4	4.5	4.7	8.5
Electricity generation, by source	22.0	21.7	21.5	21.7	21.9	22.1	21.7	20.6	21.0	20.2	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	20.4	20.0	19.7	19.5	19.5	19.6	19.0	18.2	18.2	17.3	85.8
Nuclear	1.2	1.2	1.1	1.3	1.2	1.0	1.1	0.9	0.9	0.7	3.7
Hydro	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.8	4.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.0	0.1	0.2	0.3	0.4	0.6	0.6	0.5	0.6	0.8	3.7
Solar	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	2.3
Other renewables	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.0
Total final consumption, by sector	61.5	60.7	59.0	58.3	63.9	62.6	59.0	56.2	56.1	55.0	100.0
Industry	26.0	26.2	24.4	24.1	23.3	25.4	24.6	23.0	21.9	21.1	38.3
Transport	12.6	11.4	12.4	11.2	13.0	12.8	13.2	11.6	12.6	12.7	23.1
Residential/Commercial	16.3	16.2	15.6	16.2	19.6	17.2	15.2	14.9	14.5	14.3	25.9
Oil final consumption, by sector	19.4	18.4	19.7	18.3	21.0	20.5	19.8	18.9	20.5	20.8	100.0
Industry	2.0	2.1	2.3	2.1	1.8	2.0	1.9	1.8	1.9	2.0	9.5
Transport	12.2	11.1	12.1	10.9	12.7	12.6	12.9	11.4	12.4	12.5	60.1
Residential/Commercial	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.6	0.6	0.7	3.2
Natural gas final consumption, by sector	2.2	2.2	2.2	2.2	2.3	2.1	2.2	2.0	2.2	2.2	100.0
Industry	2.2	2.2	2.2	2.2	2.3	2.1	2.2	2.0	2.2	2.1	98.5
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	1.5
Refined products consumption	19.4	18.4	19.7	18.3	21.0	20.5	19.8	18.9	20.5	20.8	100.0
Gasoline	3.5	2.4	3.0	2.6	3.2	3.1	2.9	2.7	2.9	2.8	13.7
Diesel	11.4	11.4	12.0	10.8	11.8	11.7	12.0	10.9	12.1	11.9	57.1
Heating Oil	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.4	0.5	2.4
Aviation Jet	0.5	0.5	0.7	0.8	0.9	1.0	1.2	0.7	0.7	1.0	4.6
LPG	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.9
Imports	29.2	31.5	32.0	31.8	31.2	34.5	30.8	28.1	29.3	27.2	100.0
Oil	26.1	28.4	28.7	28.4	27.8	31.1	27.4	24.8	25.7	23.6	87.0
Gas	3.1	3.1	3.3	3.4	3.4	3.4	3.3	3.3	3.6	3.5	13.0
Gasoline	1.2	0.9	1.5	1.1	1.6	1.7	1.2	1.3	1.3	1.1	4.2
Diesel	4.4	4.5	5.8	3.9	5.4	5.4	5.2	6.3	9.0	10.9	40.2
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	1.0	3.6
Aviation Jet	0.2	0.2	0.2	0.1	0.4	0.3	0.4	0.5	0.4	0.6	2.4
LPG	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Exports	3.6	3.3	4.4	4.1	4.1	4.4	3.7	2.7	2.5	2.4	100.0
Oil	3.6	3.3	4.4	4.1	4.1	4.4	3.7	2.7	2.5	2.4	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	0.7	0.8	0.8	0.9	0.8	1.0	0.9	0.9	0.8	0.7	28.2
Diesel	1.4	1.3	1.4	1.7	1.6	1.6	1.6	0.8	0.8	0.8	33.4
Heating Oil	1.1	0.9	1.2	1.0	0.8	0.9	0.4	0.0	0.4	0.4	15.7
Aviation Jet	0.1	0.1	0.7	0.3	0.3	0.3	0.3	0.5	0.1	0.3	12.8
LPG	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	2.2
CO₂ Emissions (Million tons CO₂)	429.1	439.6	416.0	416.0	426.7	430.2	439.7	390.6	400.9	381.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	581.0	587.0	548.1	544.5	552.1	548.5	560.0	531.7	520.1	484.7	-
Final energy intensity (toe/million \$15ppp)	78.2	75.6	73.0	71.1	76.5	74.3	70.8	70.6	67.0	64.4	-
Total energy intensity (toe/million \$15ppp)	184.6	191.0	179.9	184.0	181.3	175.0	174.2	179.9	166.4	155.8	-

*Heat is included

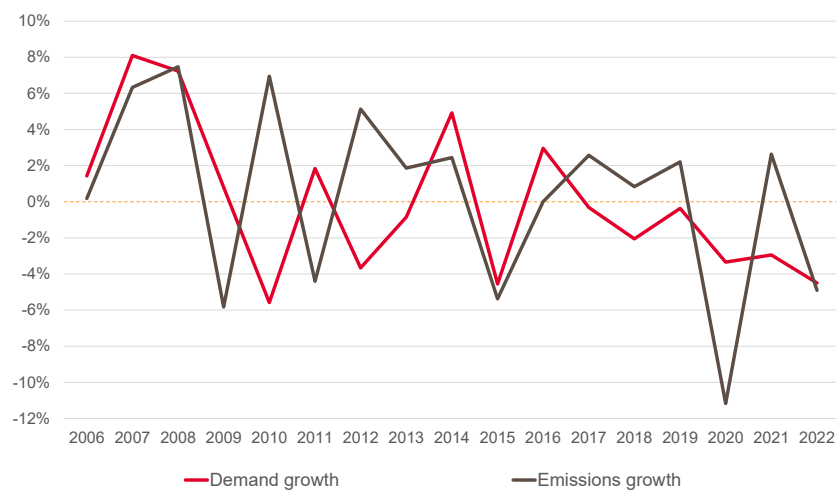
Primary energy demand mix



Electricity generation by source



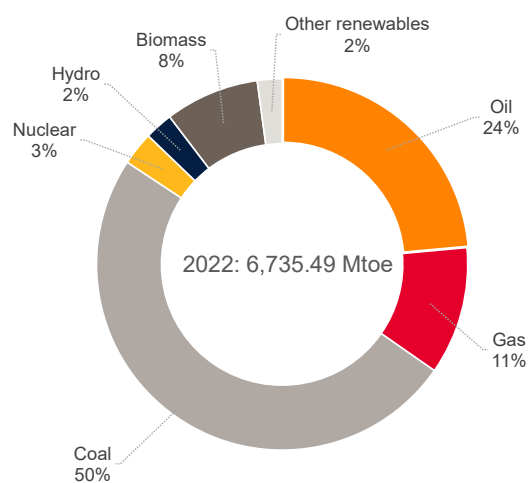
Primary energy demand and CO₂ emissions growth



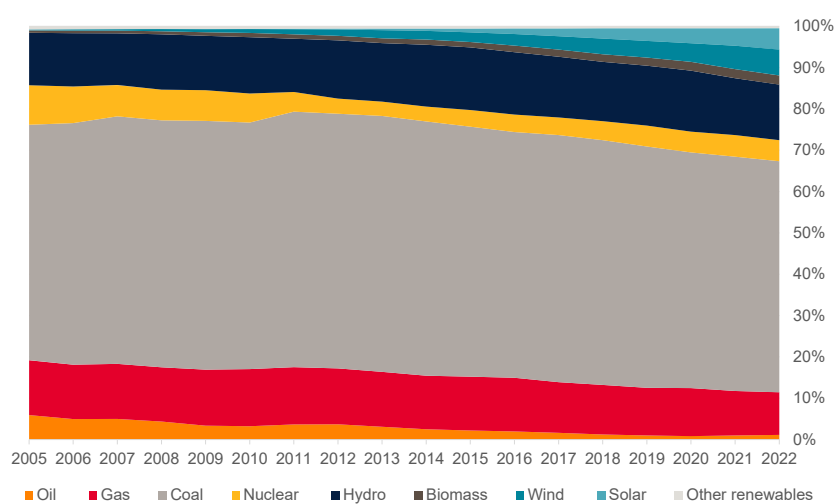
Asia-Pacific (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	5,400.5	5,548.9	5,581.1	5,625.9	5,818.7	6,038.6	6,206.9	6,201.5	6,494.6	6,735.5	100.0
Oil	1,311.3	1,342.1	1,394.4	1,439.4	1,484.4	1,517.4	1,544.0	1,494.5	1,536.1	1,565.7	23.2
Gas	572.3	588.1	587.1	608.3	638.3	679.3	703.4	713.2	748.8	741.2	11.0
Coal	2,767.8	2,833.6	2,795.7	2,732.9	2,809.5	2,904.0	2,970.7	2,977.4	3,129.8	3,297.1	49.0
Nuclear	88.8	97.3	110.4	122.5	130.3	148.1	168.8	169.7	190.3	192.5	2.9
Hydro	118.3	131.5	135.0	140.2	144.5	148.9	155.3	159.9	160.4	163.3	2.4
Biomass	468.6	475.2	468.5	479.0	490.9	501.7	510.0	516.6	527.9	545.9	8.1
Other renewables	20.0	24.1	29.6	39.7	52.1	66.9	78.5	90.6	118.5	142.8	2.1
Electricity balance of trade*	53.3	57.0	60.5	64.0	68.7	72.3	76.3	79.7	82.8	86.9	1.3
Total final consumption, by source	3,752.6	3,853.5	3,894.6	3,933.8	4,025.9	4,147.7	4,199.5	4,191.8	4,341.7	4,478.1	100.0
Oil	1,147.2	1,177.6	1,235.4	1,261.8	1,307.1	1,356.1	1,362.4	1,323.3	1,369.1	1,405.1	31.4
Gas	262.8	269.2	268.7	283.3	307.8	340.4	360.5	365.8	399.3	394.1	8.8
Coal	1,115.6	1,131.8	1,104.7	1,058.8	1,016.7	978.0	960.7	957.2	937.8	977.8	21.8
Electricity	709.8	750.4	762.2	800.8	853.1	914.8	949.8	966.6	1,042.5	1,082.3	24.2
Heat	109.3	114.5	121.9	132.7	142.1	157.4	164.5	176.4	190.7	204.0	4.6
Biomass	408.0	410.2	401.7	396.5	399.0	401.0	401.6	402.5	402.2	414.9	9.3
Electricity generation, by source	849.2	893.6	905.9	953.6	1,010.5	1,063.6	1,100.7	1,111.6	1,197.9	1,246.9	100.0
Oil	26.2	22.3	19.7	18.7	16.4	12.8	10.8	9.4	11.8	13.7	1.1
Gas	112.7	115.5	118.2	123.8	123.8	127.5	127.0	129.1	128.7	128.8	10.3
Coal	526.1	550.1	548.1	567.0	604.4	630.1	643.0	633.9	679.4	697.4	55.9
Nuclear	29.3	32.1	36.4	40.4	43.0	48.9	55.7	56.0	62.8	63.5	5.1
Hydro	120.3	133.7	137.3	144.1	148.6	153.0	159.3	164.1	164.7	167.6	13.4
Biomass	10.0	11.2	11.9	15.1	17.2	19.6	21.7	23.8	26.4	27.6	2.2
Wind	16.6	18.8	21.1	26.9	32.9	40.2	44.6	50.0	67.9	77.9	6.3
Solar	3.4	5.3	8.4	12.9	19.2	26.6	33.7	40.3	50.6	64.8	5.2
Other renewables	4.5	4.6	4.7	4.8	4.9	4.9	5.0	5.1	5.5	5.5	0.4
Total final consumption, by sector	3,752.6	3,853.5	3,894.6	3,933.8	4,025.9	4,147.7	4,199.5	4,191.8	4,341.7	4,478.1	100.0
Industry	1,704.9	1,758.2	1,727.5	1,708.3	1,730.4	1,791.2	1,813.1	1,841.5	1,887.4	1,936.0	43.2
Transport	626.8	644.8	680.1	699.9	730.2	765.5	771.3	718.8	750.5	773.4	17.3
Residential/Commercial	938.7	952.0	969.0	995.1	1,028.4	1,050.7	1,063.8	1,073.3	1,125.1	1,181.1	26.4
Oil final consumption, by sector	1,147.2	1,177.6	1,235.4	1,261.8	1,307.1	1,356.1	1,362.4	1,323.3	1,369.1	1,405.1	100.0
Industry	120.1	123.2	127.4	124.2	125.0	136.2	142.3	153.9	155.5	163.0	11.6
Transport	588.8	602.3	635.2	651.1	676.7	708.1	705.8	650.3	678.1	700.2	49.8
Residential/Commercial	122.1	125.3	131.6	136.6	142.2	143.1	137.5	139.4	144.2	150.5	10.7
Natural gas final consumption, by sector	262.8	269.2	268.7	283.3	307.8	340.4	360.5	365.8	399.3	394.1	100.0
Industry	106.1	108.8	104.2	112.1	127.8	154.0	164.5	168.6	185.6	179.6	45.6
Transport	20.9	23.8	25.6	26.7	28.7	29.2	32.8	32.6	35.0	36.9	9.4
Residential/Commercial	85.0	86.7	89.4	93.2	99.7	104.7	108.4	110.6	121.2	120.8	30.6
Refined products consumption	1,143.9	1,171.9	1,230.0	1,256.6	1,304.3	1,353.4	1,358.7	1,318.9	1,364.5	1,400.4	100.0
Gasoline	251.9	257.4	281.9	293.9	304.2	320.7	329.4	306.0	319.8	321.8	23.0
Diesel	414.5	417.4	427.4	422.2	434.3	443.9	425.3	396.7	407.5	442.7	31.6
Heating Oil	34.3	32.9	32.0	32.0	32.5	29.8	30.8	29.5	33.9	38.9	2.8
Aviation Jet	29.9	32.6	36.0	39.5	43.3	46.0	47.3	40.3	42.7	35.5	2.5
LPG	100.4	107.2	112.4	124.2	131.7	140.8	142.6	140.8	148.1	154.5	11.0
Imports	1,677.4	1,710.9	1,785.3	1,893.6	1,994.7	2,062.9	2,096.0	2,030.3	2,053.3	2,098.9	100.0
Oil	1,422.3	1,450.0	1,526.3	1,616.8	1,691.7	1,731.6	1,756.7	1,683.7	1,681.0	1,742.3	83.0
Gas	255.1	260.8	259.1	276.8	303.0	331.3	339.3	346.7	372.2	356.5	17.0
Gasoline	53.8	56.4	60.7	62.7	62.4	66.3	71.2	67.7	68.1	78.4	3.7
Diesel	67.1	75.0	74.2	83.5	91.7	89.0	92.1	86.0	84.9	98.9	4.7
Heating Oil	124.7	116.4	117.8	116.2	119.5	109.6	103.4	94.4	103.5	94.1	4.5
Aviation Jet	22.2	20.9	21.9	26.3	28.4	27.3	25.4	17.4	11.9	13.2	0.6
LPG	45.4	50.8	57.1	67.2	70.7	74.5	80.2	81.1	86.0	94.5	4.5
Exports	482.9	485.9	515.6	555.4	580.6	571.9	583.9	551.0	549.3	559.7	100.0
Oil	377.9	377.0	399.6	426.2	431.8	417.1	414.9	380.1	379.4	377.9	67.5
Gas	104.9	108.9	116.0	129.2	148.8	154.8	169.0	170.9	169.9	181.8	32.5
Gasoline	59.9	64.8	68.9	71.1	71.1	71.2	75.7	68.5	74.4	72.2	12.9
Diesel	103.8	104.3	108.7	120.7	125.2	128.4	131.8	123.4	120.4	114.9	20.5
Heating Oil	61.3	56.2	56.6	57.5	61.7	57.8	50.9	43.8	48.9	49.7	8.9
Aviation Jet	39.1	40.1	44.4	48.2	50.4	49.8	51.4	40.3	36.2	47.0	8.4
LPG	4.2	4.4	4.1	4.5	4.8	5.4	6.4	7.3	7.1	7.4	1.3
CO₂ Emissions (Million tons CO₂)	15,097.1	15,291.8	15,294.0	15,369.9	15,807.0	16,314.5	16,436.2	16,181.2	17,000.2	17,727.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	391.2	375.6	355.9	338.7	329.8	322.9	312.0	311.2	307.5	308.8	-
Final energy intensity (toe/million \$15ppp)	97.2	94.6	90.6	86.7	84.0	82.1	79.7	80.6	78.5	78.0	-
Total energy intensity (toe/million \$15ppp)	139.9	136.3	129.9	124.0	121.4	119.5	117.8	119.3	117.5	117.3	-

*Heat is included

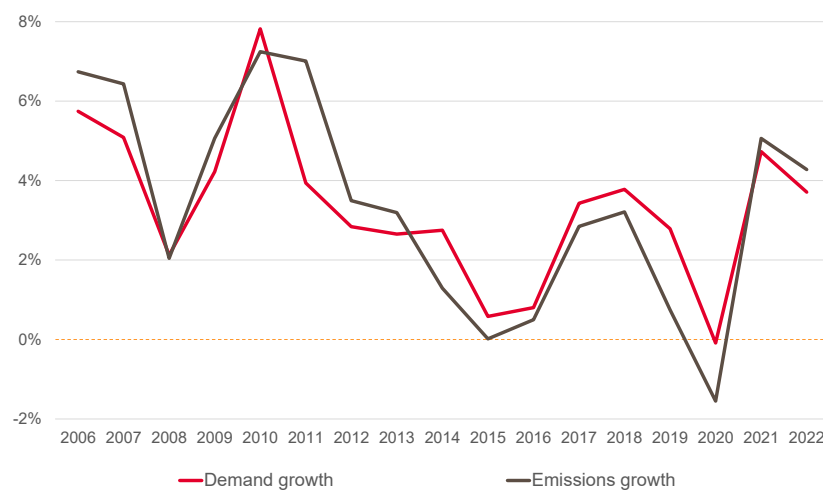
Primary energy demand mix



Electricity generation by source



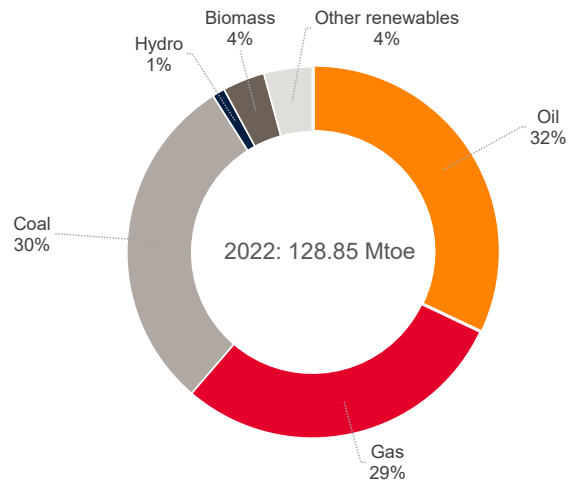
Primary energy demand and CO₂ emissions growth



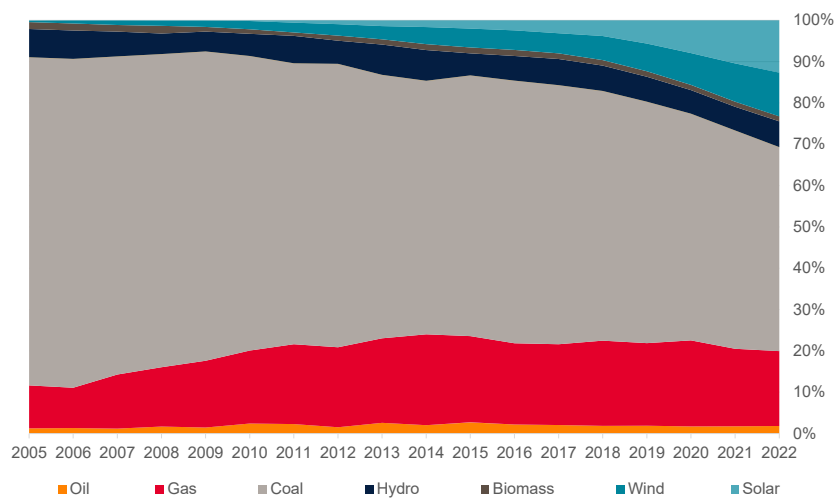
Australia (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	127.5	126.9	126.7	126.2	127.9	128.7	129.3	131.0	128.4	128.9	100.0
Oil	45.1	44.5	42.5	42.8	42.9	44.1	43.9	44.1	41.2	41.1	31.9
Gas	30.9	32.9	33.1	30.5	31.3	32.5	34.2	37.9	36.6	37.5	29.1
Coal	43.7	41.5	42.9	44.5	44.7	42.9	41.7	38.9	39.6	38.1	29.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.6	1.6	1.1	1.3	1.4	1.4	1.3	1.3	1.3	1.4	1.1
Biomass	4.9	4.9	5.2	5.1	5.5	5.2	4.9	4.7	4.8	4.7	3.7
Other renewables	1.0	1.2	1.4	1.6	1.8	2.2	2.8	3.6	4.5	5.4	4.2
Electricity balance of trade*	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
Total final consumption, by source	81.8	81.9	81.5	82.4	82.2	83.3	81.2	78.6	78.2	78.9	100.0
Oil	43.0	43.1	42.5	43.0	43.4	44.5	44.1	41.7	41.2	41.5	52.6
Gas	12.9	13.2	13.0	12.9	12.1	12.0	10.5	10.6	10.7	10.7	13.6
Coal	3.1	3.1	3.0	3.4	3.6	3.8	3.7	3.5	3.5	3.6	4.5
Electricity	18.2	18.0	18.3	18.4	18.3	18.5	18.6	18.6	18.6	18.8	23.9
Heat	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6
Biomass	4.4	4.2	4.3	4.2	4.3	4.1	3.9	3.7	3.8	3.7	4.7
Electricity generation, by source	21.4	21.3	21.6	22.1	22.2	22.4	22.7	22.8	22.8	23.3	100.0
Oil	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	1.8
Gas	4.4	4.7	4.5	4.3	4.3	4.6	4.5	4.7	4.3	4.2	18.1
Coal	13.7	13.1	13.6	14.0	13.9	13.6	13.3	12.5	12.1	11.5	49.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.6	1.6	1.2	1.3	1.4	1.4	1.4	1.3	1.3	1.5	6.2
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.2
Wind	0.7	0.9	1.0	1.0	1.1	1.3	1.5	1.8	2.1	2.5	10.6
Solar	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.4	2.9	12.7
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	81.8	81.9	81.5	82.4	82.2	83.3	81.2	78.6	78.2	78.9	100.0
Industry	24.6	24.3	23.1	23.7	23.4	23.5	22.6	22.4	22.8	23.1	29.3
Transport	31.3	31.4	32.2	32.4	32.8	33.5	33.4	31.1	30.3	30.5	38.6
Residential/Commercial	17.8	17.8	18.3	18.3	18.2	18.3	17.8	17.9	17.9	18.1	22.9
Oil final consumption, by sector	43.0	43.1	42.5	43.0	43.4	44.5	44.1	41.7	41.2	41.5	100.0
Industry	4.6	4.5	3.9	3.8	3.8	4.1	4.2	4.3	4.5	4.7	11.3
Transport	30.6	30.6	31.3	31.7	32.1	32.8	32.7	30.4	29.7	29.8	71.7
Residential/Commercial	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	2.5
Natural gas final consumption, by sector	12.9	13.2	13.0	12.9	12.1	12.0	10.5	10.6	10.7	10.7	100.0
Industry	7.1	7.0	6.7	6.8	6.4	6.2	5.5	5.5	5.5	5.5	51.2
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5
Residential/Commercial	4.4	4.6	4.7	4.7	4.5	4.5	4.1	4.1	4.1	4.2	38.6
Refined products consumption	43.0	43.1	42.5	43.0	43.4	44.5	44.1	41.7	41.2	41.5	100.0
Gasoline	14.8	14.3	14.4	14.3	14.5	14.3	14.0	12.4	12.6	11.8	28.5
Diesel	17.3	17.8	18.4	19.0	19.8	21.3	21.3	21.2	21.6	22.3	53.6
Heating Oil	0.8	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.4
Aviation Jet	2.9	3.0	3.0	3.0	3.1	3.1	2.9	2.3	1.6	2.0	4.9
LPG	2.2	2.2	2.1	1.9	1.6	1.2	1.1	1.1	1.0	1.0	2.3
Imports	49.0	48.6	47.6	48.6	49.7	52.9	52.5	49.4	46.8	47.7	100.0
Oil	44.6	43.9	43.3	43.7	45.3	48.9	48.2	45.5	42.3	44.5	93.2
Gas	4.4	4.7	4.3	4.9	4.4	4.0	4.3	3.9	4.5	3.3	6.8
Gasoline	2.9	2.8	4.3	5.2	5.4	5.0	4.7	4.6	6.0	6.9	14.4
Diesel	10.6	11.4	12.7	15.2	15.7	17.3	17.7	18.8	19.5	22.7	47.5
Heating Oil	1.6	1.3	0.2	0.3	0.2	0.7	0.7	0.6	0.3	0.4	0.9
Aviation Jet	2.7	2.9	3.6	4.7	4.9	5.2	4.9	4.1	2.3	3.2	6.7
LPG	0.5	0.4	0.6	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.9
Exports	43.0	41.8	44.0	57.0	74.5	85.9	103.1	111.4	107.9	115.6	100.0
Oil	15.5	14.5	14.6	13.4	13.0	13.2	15.0	18.1	17.0	17.9	15.5
Gas	27.5	27.2	29.4	43.5	61.4	72.7	88.0	93.3	90.9	97.7	84.5
Gasoline	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.1
Diesel	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Heating Oil	0.2	0.0	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.1	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0
LPG	1.5	1.5	1.3	1.2	1.4	1.4	1.8	3.2	2.9	3.4	2.9
CO₂ Emissions (Million tons CO₂)	393.1	383.0	388.8	398.4	397.7	394.6	384.7	369.2	356.5	351.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	374.0	355.3	353.0	352.1	343.6	331.3	316.4	303.7	288.9	275.1	-
Final energy intensity (toe/million \$15ppp)	72.2	70.2	69.0	67.9	66.5	65.4	62.6	60.4	59.3	57.8	-
Total energy intensity (toe/million \$15ppp)	121.3	117.7	115.0	111.5	110.5	108.1	106.3	107.7	104.0	100.7	-

*Heat is included

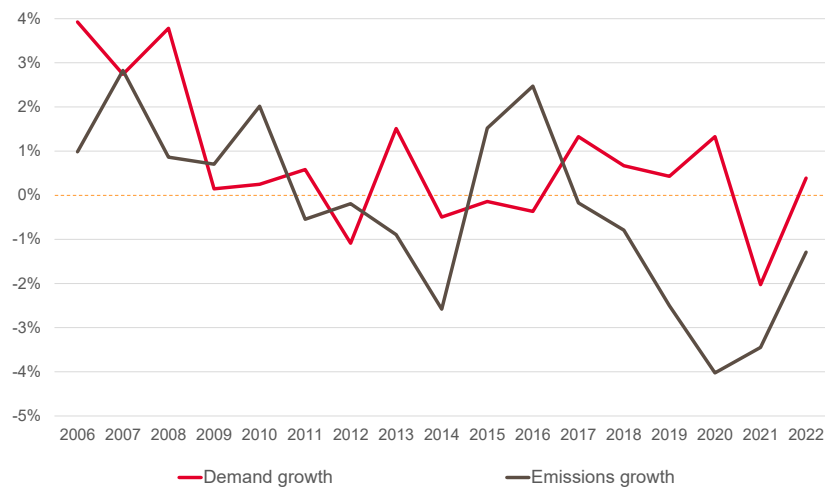
Primary energy demand mix



Electricity generation by source



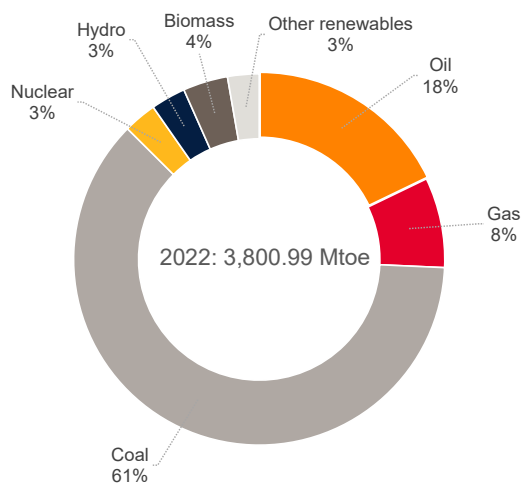
Primary energy demand and CO₂ emissions growth



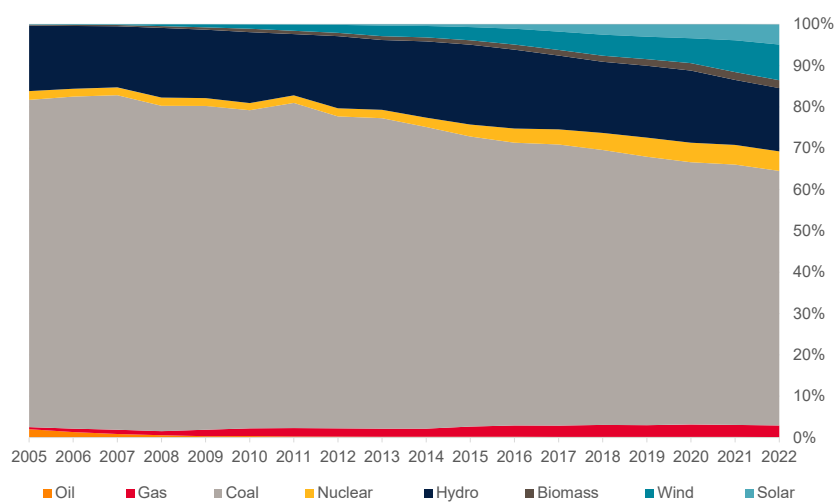
China (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	2,911.7	2,986.1	3,000.8	2,987.2	3,098.4	3,247.4	3,395.9	3,507.0	3,688.8	3,801.0	100.0
Oil	486.8	508.3	540.7	561.0	591.9	621.5	656.2	669.7	680.7	669.7	17.6
Gas	140.5	153.7	158.6	170.8	195.2	228.6	248.2	265.1	298.3	294.7	7.8
Coal	2,025.1	2,041.5	1,999.4	1,929.8	1,958.4	2,013.2	2,069.6	2,123.8	2,221.5	2,317.0	61.0
Nuclear	29.1	34.5	44.5	55.6	64.6	76.7	90.8	95.4	106.1	108.7	2.9
Hydro	78.2	91.1	95.8	99.2	100.2	103.1	109.4	113.7	112.3	113.4	3.0
Biomass	114.2	114.8	113.6	112.3	116.9	119.8	126.6	133.8	140.0	146.5	3.9
Other renewables	13.5	15.8	19.4	26.1	35.7	46.8	54.5	63.0	85.0	103.1	2.7
Electricity balance of trade*	24.3	26.4	28.7	32.3	35.5	37.6	40.6	42.4	44.9	47.8	1.3
Total final consumption, by source	2,007.1	2,074.3	2,092.9	2,099.1	2,123.0	2,200.1	2,241.4	2,315.8	2,416.3	2,465.8	100.0
Oil	432.7	453.8	484.8	499.2	517.5	559.1	565.0	577.3	598.7	606.0	24.6
Gas	98.8	108.0	108.1	117.0	134.2	162.2	182.4	195.2	222.9	219.8	8.9
Coal	892.3	897.7	877.8	831.4	770.9	718.5	696.1	707.2	685.7	691.3	28.0
Electricity	387.0	415.8	418.9	443.7	484.5	531.3	561.0	587.2	647.7	671.0	27.2
Heat	100.7	105.5	112.9	123.3	132.2	146.1	153.3	165.0	178.5	191.0	7.7
Biomass	95.8	93.5	90.3	84.6	83.6	82.9	83.6	83.9	82.8	86.7	3.5
Electricity generation, by source	468.5	500.3	503.5	533.2	577.5	614.3	645.4	667.8	732.6	759.6	100.0
Oil	0.9	0.8	0.8	0.9	0.8	0.9	0.9	1.0	1.0	0.9	0.1
Gas	9.2	9.8	12.5	14.7	15.7	17.8	18.3	20.2	21.3	21.3	2.8
Coal	352.0	365.2	353.4	364.8	392.8	408.7	419.3	423.8	461.5	467.9	61.6
Nuclear	9.6	11.4	14.7	18.3	21.3	25.3	30.0	31.5	35.0	35.9	4.7
Hydro	79.1	92.3	97.2	101.8	103.0	105.9	112.2	116.5	115.1	116.3	15.3
Biomass	4.2	4.9	5.5	6.5	8.0	8.9	10.4	12.1	14.0	14.6	1.9
Wind	12.1	13.8	16.0	20.4	25.6	31.5	34.9	40.1	56.4	65.5	8.6
Solar	1.3	2.0	3.4	5.7	10.1	15.2	19.4	22.5	28.2	37.2	4.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	2,007.1	2,074.3	2,092.9	2,099.1	2,123.0	2,200.1	2,241.4	2,315.8	2,416.3	2,465.8	100.0
Industry	1,143.6	1,173.2	1,140.8	1,113.1	1,102.7	1,134.6	1,152.9	1,206.5	1,240.9	1,244.3	50.5
Transport	257.9	268.8	289.8	297.3	309.7	335.0	335.8	322.3	336.7	333.7	13.5
Residential/Commercial	398.7	410.1	429.3	447.7	472.9	495.1	507.5	524.8	568.5	606.2	24.6
Oil final consumption, by sector	432.7	453.8	484.8	499.2	517.5	559.1	565.0	577.3	598.7	606.0	100.0
Industry	48.7	48.9	48.1	46.2	45.7	61.4	69.0	85.6	86.8	87.7	14.5
Transport	236.3	243.6	262.2	267.2	276.4	299.6	294.0	278.4	290.9	288.7	47.6
Residential/Commercial	42.7	45.9	51.7	54.8	58.1	58.0	53.2	53.1	57.9	62.0	10.2
Natural gas final consumption, by sector	98.8	108.0	108.1	117.0	134.2	162.2	182.4	195.2	222.9	219.8	100.0
Industry	39.2	42.1	40.2	45.7	58.3	81.7	93.9	100.5	116.0	112.2	51.1
Transport	11.9	15.1	16.8	17.9	20.0	20.3	24.5	25.7	28.0	29.9	13.6
Residential/Commercial	36.4	38.7	41.0	43.0	47.2	51.9	55.2	60.0	68.5	67.5	30.7
Refined products consumption	431.2	449.9	481.4	496.1	516.8	558.4	564.4	575.6	596.7	604.1	100.0
Gasoline	96.5	100.7	117.1	122.2	126.6	140.9	146.0	136.2	143.9	137.3	22.7
Diesel	170.8	171.4	173.1	167.7	167.5	172.2	154.5	147.2	147.9	165.5	27.4
Heating Oil	12.2	12.1	11.1	10.3	11.6	10.5	12.9	11.8	15.3	18.6	3.1
Aviation Jet	14.0	15.7	18.0	20.4	23.1	25.3	27.3	27.1	28.7	17.8	2.9
LPG	30.6	35.4	40.5	47.6	53.4	58.2	57.7	57.0	63.5	66.6	11.0
Imports	376.1	401.9	437.7	495.9	556.7	628.2	675.5	714.7	703.3	688.1	100.0
Oil	334.5	354.9	389.1	436.8	482.4	530.8	571.8	606.3	573.4	571.1	83.0
Gas	41.7	46.9	48.7	59.1	74.3	97.4	103.7	108.4	129.9	117.0	17.0
Gasoline	0.0	0.0	0.2	0.2	0.0	0.5	0.3	0.5	0.4	0.0	0.0
Diesel	0.3	0.5	0.4	0.9	0.8	0.7	1.2	1.2	0.8	0.4	0.1
Heating Oil	23.5	17.8	15.4	11.7	13.6	16.7	14.9	12.5	13.6	12.7	1.8
Aviation Jet	5.5	4.0	3.6	3.6	3.8	4.2	2.9	2.6	1.4	0.9	0.1
LPG	5.4	8.9	14.9	20.1	23.1	23.6	25.3	24.1	29.8	32.3	4.7
Exports	36.8	37.2	46.8	59.4	65.2	69.7	76.6	72.6	72.0	65.1	100.0
Oil	34.5	35.0	44.1	56.6	62.2	66.9	73.6	68.2	67.5	59.6	91.5
Gas	2.3	2.2	2.7	2.8	3.0	2.8	3.0	4.3	4.5	5.5	8.5
Gasoline	4.8	5.2	6.1	10.0	10.8	13.3	16.9	16.5	15.0	12.9	19.9
Diesel	2.8	4.2	7.3	15.7	17.5	18.9	21.8	20.2	17.6	11.1	17.1
Heating Oil	11.3	9.5	10.5	9.9	11.1	12.3	11.2	15.8	19.6	17.7	27.2
Aviation Jet	9.5	11.0	12.7	13.5	13.5	15.1	18.1	10.3	8.8	11.2	17.2
LPG	1.5	1.7	1.7	1.6	1.6	1.4	1.7	1.1	1.2	1.0	1.6
CO₂ Emissions (Million tons CO₂)	9,163.5	9,166.1	9,116.3	9,090.1	9,279.0	9,600.9	9,720.7	9,859.0	10,397.1	10,504.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	592.1	551.3	512.2	478.0	456.3	442.3	422.6	419.2	409.0	401.2	-
Final energy intensity (toe/million \$15ppp)	120.5	115.3	108.3	101.3	96.0	93.4	89.5	90.0	87.0	86.2	-
Total energy intensity (toe/million \$15ppp)	188.1	179.6	168.6	157.1	152.4	149.6	147.6	149.1	145.1	145.2	-

*Heat is included

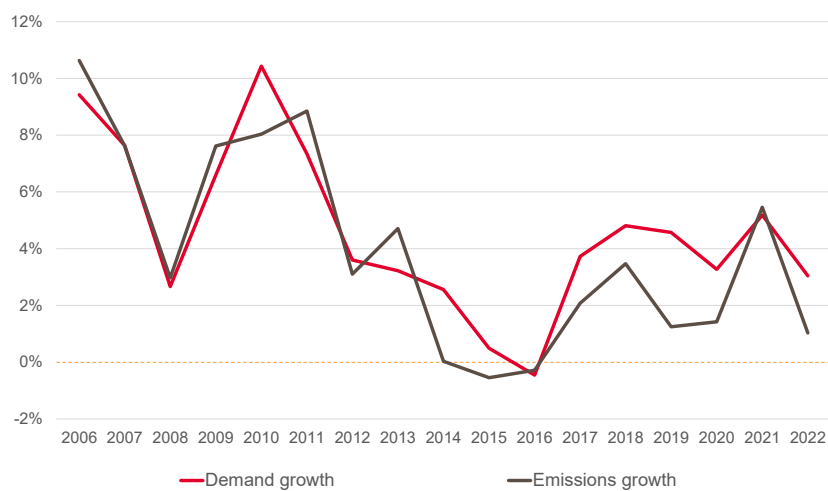
Primary energy demand mix



Electricity generation by source



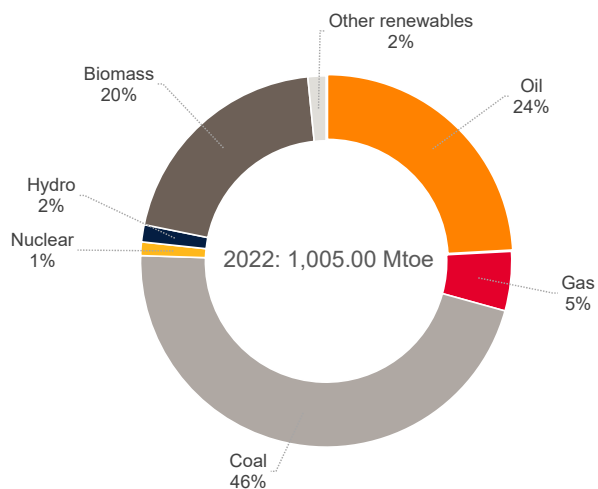
Primary energy demand and CO₂ emissions growth



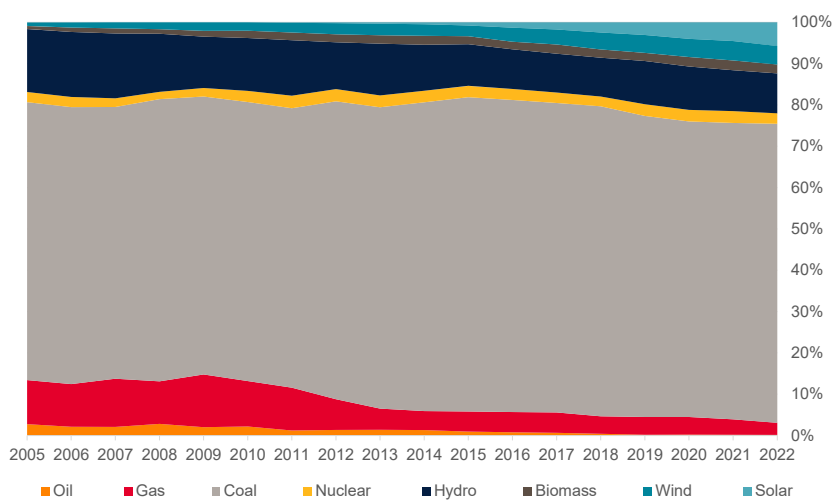
India (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	753.0	803.9	823.7	840.0	882.5	926.6	927.2	872.2	936.4	1,005.0	100.0
Oil	176.4	184.3	206.4	216.7	223.0	235.3	235.5	207.4	215.9	242.2	24.1
Gas	44.4	44.0	45.1	48.0	51.0	52.4	55.5	52.6	55.1	51.9	5.2
Coal	345.0	384.1	376.9	371.2	394.0	417.0	407.3	379.0	425.1	463.8	46.2
Nuclear	8.9	9.4	9.8	9.9	10.0	9.9	12.1	11.2	12.3	12.0	1.2
Hydro	12.8	12.3	11.7	11.8	12.2	13.0	14.8	13.8	14.0	15.0	1.5
Biomass	161.6	165.5	169.1	175.9	184.7	189.3	190.7	195.9	199.8	203.2	20.2
Other renewables	3.2	3.6	3.9	5.8	7.0	9.1	10.5	11.1	13.0	15.8	1.6
Electricity balance of trade*	0.8	0.6	0.7	0.6	0.7	0.7	0.8	1.3	1.3	1.2	0.1
Total final consumption, by source	508.1	533.3	557.1	576.9	604.8	630.9	634.9	609.9	633.1	672.1	100.0
Oil	154.7	161.7	179.6	188.6	199.6	206.8	208.0	193.5	202.0	222.0	33.0
Gas	26.1	25.9	27.7	29.6	30.4	31.0	33.5	32.3	34.3	33.1	4.9
Coal	107.2	113.7	108.8	109.4	115.5	121.1	116.8	109.8	113.8	120.4	17.9
Electricity	74.2	83.0	87.5	93.1	98.4	105.6	108.9	101.7	108.5	118.5	17.6
Heat	0.4	0.6	0.7	0.7	0.8	1.0	1.1	1.3	1.5	1.6	0.2
Biomass	145.5	148.5	152.8	155.4	160.1	165.4	166.6	171.3	173.0	176.6	26.3
Electricity generation, by source	101.9	110.9	116.7	123.1	129.8	138.3	141.6	131.9	141.3	155.0	100.0
Oil	1.4	1.4	1.1	0.9	0.8	0.6	0.3	0.3	0.3	0.2	0.1
Gas	5.2	5.1	5.7	6.1	6.4	5.9	6.1	5.7	5.3	4.5	2.9
Coal	74.3	82.9	88.8	93.0	97.2	103.8	103.2	94.3	101.4	112.2	72.4
Nuclear	2.9	3.1	3.2	3.3	3.3	3.3	4.0	3.7	4.1	3.9	2.5
Hydro	12.8	12.3	11.7	11.8	12.2	13.0	14.8	13.8	14.0	15.0	9.6
Biomass	2.0	2.4	2.3	2.3	2.9	2.8	2.8	3.0	3.4	3.3	2.1
Wind	2.9	3.1	3.0	4.2	4.7	5.7	6.1	5.8	6.6	6.9	4.5
Solar	0.4	0.5	0.9	1.6	2.2	3.4	4.4	5.3	6.4	8.9	5.7
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	508.1	533.3	557.1	576.9	604.8	630.9	634.9	609.9	633.1	672.1	100.0
Industry	190.4	205.5	210.4	220.3	234.8	246.9	245.8	235.4	241.0	256.7	38.2
Transport	75.9	79.4	87.0	90.6	98.4	103.5	104.4	92.2	100.9	114.1	17.0
Residential/Commercial	165.3	170.0	175.1	179.3	182.5	185.8	189.7	185.0	190.3	196.8	29.3
Oil final consumption, by sector	154.7	161.7	179.6	188.6	199.6	206.8	208.0	193.5	202.0	222.0	100.0
Industry	16.5	18.9	23.7	27.8	29.1	26.0	26.2	21.9	20.8	25.1	11.3
Transport	72.7	75.8	83.0	86.7	93.7	98.1	98.9	86.8	94.0	106.9	48.1
Residential/Commercial	25.0	26.7	28.2	29.0	29.4	30.8	31.5	32.4	33.3	33.6	15.1
Natural gas final consumption, by sector	26.1	25.9	27.7	29.6	30.4	31.0	33.5	32.3	34.3	33.1	100.0
Industry	3.2	3.3	3.3	4.5	5.4	5.7	6.3	5.2	5.5	5.3	16.1
Transport	1.7	1.8	2.0	2.2	2.4	2.8	3.0	2.4	2.5	2.4	7.3
Residential/Commercial	2.0	1.8	1.8	2.5	2.9	3.1	3.7	3.2	3.4	3.3	9.8
Refined products consumption	154.7	161.7	179.6	188.6	199.6	206.8	208.0	193.5	202.0	222.0	100.0
Gasoline	18.3	20.4	23.4	25.4	28.0	30.3	32.1	29.9	33.0	37.4	16.9
Diesel	67.9	69.0	73.6	75.0	80.1	82.5	81.6	72.1	76.2	85.3	38.4
Heating Oil	5.2	5.1	5.9	6.5	6.2	6.0	5.7	6.1	6.8	7.6	3.4
Aviation Jet	2.6	2.8	3.1	3.6	4.1	4.4	4.3	2.6	3.5	5.1	2.3
LPG	18.4	20.3	22.2	24.4	26.4	28.1	29.7	31.1	32.0	32.3	14.5
Imports	225.5	231.1	254.7	275.2	283.7	290.2	305.2	273.2	283.7	305.2	100.0
Oil	210.1	214.5	235.7	253.1	259.2	264.6	275.1	243.9	256.4	281.8	92.3
Gas	15.4	16.6	19.0	22.1	24.4	25.5	30.1	29.3	27.3	23.4	7.7
Gasoline	0.3	0.4	1.1	0.5	0.2	0.7	2.3	1.4	0.7	1.1	0.4
Diesel	0.1	0.1	0.2	1.0	1.4	0.6	2.9	0.7	0.0	0.3	0.1
Heating Oil	1.3	0.9	1.1	0.9	1.2	1.4	4.4	6.2	8.6	8.2	2.7
Aviation Jet	0.0	0.1	0.3	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0
LPG	7.4	9.4	10.1	12.5	12.9	15.0	16.7	18.6	19.3	20.7	6.8
Exports	71.7	68.6	65.2	70.6	71.9	65.2	71.0	61.0	67.6	65.4	100.0
Oil	71.7	68.6	65.2	70.6	71.9	65.2	71.0	61.0	67.6	65.4	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	16.3	17.2	18.0	16.5	15.0	13.8	13.6	12.4	14.4	14.0	21.4
Diesel	27.4	26.4	24.9	28.4	30.8	28.9	32.7	31.6	33.5	29.5	45.1
Heating Oil	5.9	4.6	2.7	2.2	2.4	2.1	1.5	1.1	1.7	1.8	2.7
Aviation Jet	6.1	5.9	6.1	7.7	7.7	7.9	7.4	3.8	5.5	7.7	11.8
LPG	0.3	0.3	0.2	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.9
CO₂ Emissions (Million tons CO₂)	1,859.3	2,024.3	2,034.6	2,058.7	2,176.1	2,302.9	2,265.6	2,067.5	2,280.9	2,480.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	301.2	305.3	284.2	265.6	262.9	261.4	247.9	242.1	245.2	249.6	-
Final energy intensity (toe/million \$15ppp)	75.0	73.7	70.8	67.9	66.9	65.4	63.3	64.5	61.5	61.5	-
Total energy intensity (toe/million \$15ppp)	122.0	121.3	115.0	108.4	106.6	105.2	101.4	102.2	100.7	101.1	-

*Heat is included

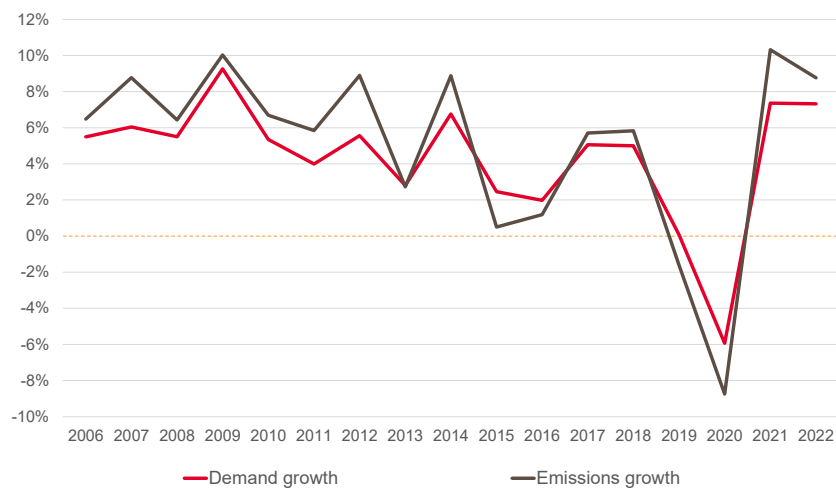
Primary energy demand mix



Electricity generation by source



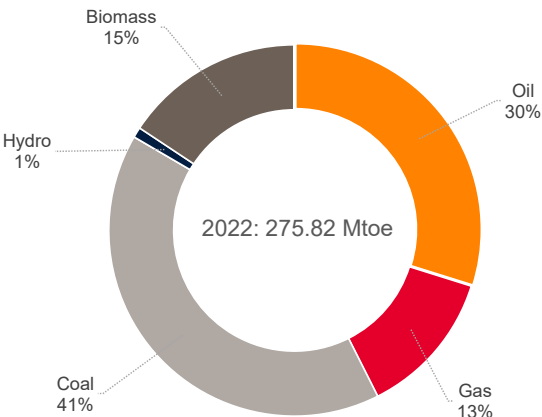
Primary energy demand and CO₂ emissions growth



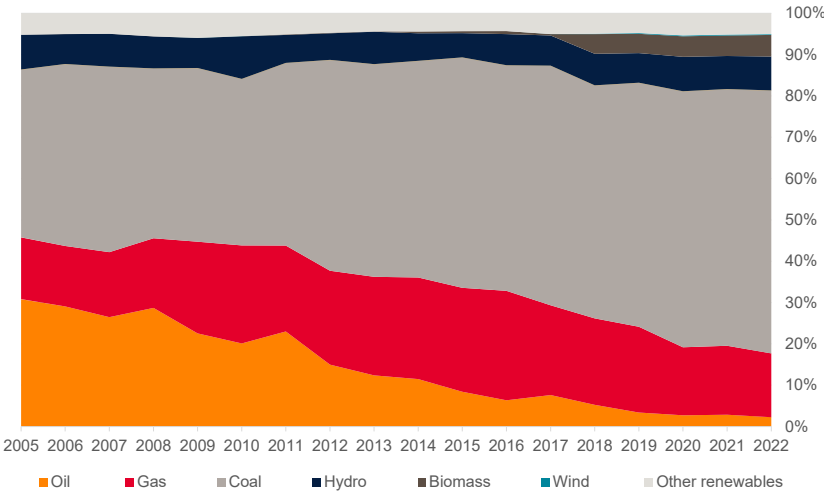
Indonesia (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	191.2	199.0	195.7	199.9	208.0	223.2	231.8	220.0	227.9	275.8	100.0
Oil	74.1	74.7	71.2	70.2	74.6	79.4	76.6	68.4	71.8	78.0	28.3
Gas	36.5	36.6	37.9	39.1	38.7	38.9	39.2	34.1	33.9	33.3	12.1
Coal	28.5	36.1	39.7	43.3	48.4	55.6	68.8	68.3	70.3	106.7	38.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.3	1.2	1.6	1.6	1.9	1.8	2.1	2.1	2.3	0.9
Biomass	42.5	41.6	37.1	36.5	33.7	35.2	33.1	33.5	36.0	40.9	14.8
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*	8.1	8.6	8.6	9.2	11.1	12.2	12.3	13.5	13.8	14.4	5.2
Total final consumption, by source	151.0	153.0	148.7	142.2	146.3	156.0	162.6	151.5	152.4	195.2	100.0
Oil	71.0	71.4	70.0	64.5	68.3	73.0	71.8	63.7	65.3	71.9	36.8
Gas	17.5	17.4	17.2	14.6	15.5	16.7	16.5	16.8	16.5	14.6	7.5
Coal	4.6	6.5	8.3	9.5	11.1	14.7	24.5	20.3	16.8	49.0	25.1
Electricity	16.1	17.1	17.4	18.6	19.2	22.9	23.3	23.7	25.2	27.1	13.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	41.7	40.6	35.8	35.1	32.2	28.7	26.5	27.1	28.7	32.7	16.7
Electricity generation, by source	18.6	19.6	20.1	21.3	21.9	24.4	25.4	25.1	26.6	28.7	100.0
Oil	2.3	2.2	1.7	1.4	1.7	1.3	0.9	0.7	0.8	0.7	2.3
Gas	4.4	4.8	5.1	5.7	4.8	5.1	5.3	4.1	4.4	4.4	15.4
Coal	9.6	10.3	11.2	11.6	12.7	13.8	15.0	15.6	16.5	18.3	63.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.3	1.2	1.6	1.6	1.9	1.8	2.1	2.1	2.3	8.2
Biomass	0.0	0.1	0.1	0.2	0.1	1.2	1.2	1.2	1.3	1.5	5.2
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	0.9	0.9	0.9	1.1	1.2	1.2	1.3	1.4	1.4	5.0
Total final consumption, by sector	151.0	153.0	148.7	142.2	146.3	156.0	162.6	151.5	152.4	195.2	100.0
Industry	39.5	42.4	45.4	39.6	44.0	49.7	58.1	55.3	52.8	86.5	44.3
Transport	46.3	47.0	44.8	45.1	47.1	53.2	54.7	48.9	52.1	57.2	29.3
Residential/Commercial	53.2	52.5	48.9	47.7	45.9	43.5	39.9	38.3	39.9	43.3	22.2
Oil final consumption, by sector	71.0	71.4	70.0	64.5	68.3	73.0	71.8	63.7	65.3	71.9	100.0
Industry	9.5	10.5	12.2	7.3	8.1	7.3	6.1	6.2	7.0	9.0	12.5
Transport	45.5	45.7	44.2	43.0	45.3	50.5	50.1	42.4	44.9	49.2	68.4
Residential/Commercial	8.2	8.4	8.3	8.4	9.0	9.3	9.3	9.6	10.0	10.0	13.9
Natural gas final consumption, by sector	17.5	17.4	17.2	14.6	15.5	16.7	16.5	16.8	16.5	14.6	100.0
Industry	13.3	13.2	12.9	10.4	12.0	12.9	12.8	13.3	12.2	10.1	69.1
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	1.1
Refined products consumption	70.0	70.3	68.9	63.2	67.1	71.7	69.3	61.5	63.1	69.6	100.0
Gasoline	24.1	24.4	24.9	25.7	26.5	27.2	28.1	24.6	26.0	28.2	40.6
Diesel	29.7	28.5	26.6	20.8	21.5	24.2	21.7	18.3	20.4	21.4	30.7
Heating Oil	1.8	1.7	1.5	1.8	1.9	2.0	1.5	1.2	1.2	2.6	3.7
Aviation Jet	2.2	2.2	2.3	2.6	2.9	3.2	2.8	1.9	1.4	2.2	3.2
LPG	6.3	6.9	7.2	7.5	8.1	8.5	8.8	9.1	9.4	9.7	13.9
Imports	53.1	55.4	52.2	49.8	54.3	53.1	44.8	40.7	48.0	52.9	100.0
Oil	53.1	55.4	52.2	49.8	54.3	53.1	44.8	40.7	48.0	52.9	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	14.7	15.4	14.7	13.3	13.9	14.8	15.1	12.8	14.7	17.3	32.7
Diesel	10.4	10.0	6.1	4.3	6.1	5.7	3.4	2.8	2.8	4.6	8.7
Heating Oil	0.1	0.2	0.4	0.5	0.4	0.8	0.3	0.2	0.2	0.1	0.3
Aviation Jet	0.8	0.8	1.0	0.9	1.5	1.3	0.2	0.0	0.0	0.0	0.0
LPG	3.7	4.1	4.8	5.1	6.2	6.3	6.5	7.2	7.2	7.6	14.4
Exports	50.5	49.1	47.3	46.4	42.0	37.6	26.4	25.0	25.4	22.6	100.0
Oil	20.3	20.0	19.7	20.9	18.2	13.9	7.5	7.9	8.3	6.2	27.4
Gas	30.2	29.1	27.6	25.5	23.8	23.7	18.9	17.1	17.1	16.4	72.6
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Heating Oil	4.0	4.3	3.8	3.9	4.3	3.6	3.8	3.1	2.1	4.0	17.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	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)	428.9	464.4	469.8	461.3	492.4	544.7	586.2	546.0	576.2	738.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	178.4	183.9	177.4	165.9	168.5	177.2	181.7	172.8	175.8	214.0	-
Final energy intensity (toe/million \$15ppp)	59.3	57.5	53.5	48.4	47.6	48.2	47.7	45.4	44.6	54.6	-
Total energy intensity (toe/million \$15ppp)	79.5	78.8	73.9	71.9	71.2	72.6	71.8	69.6	69.5	79.9	-

*Heat is included

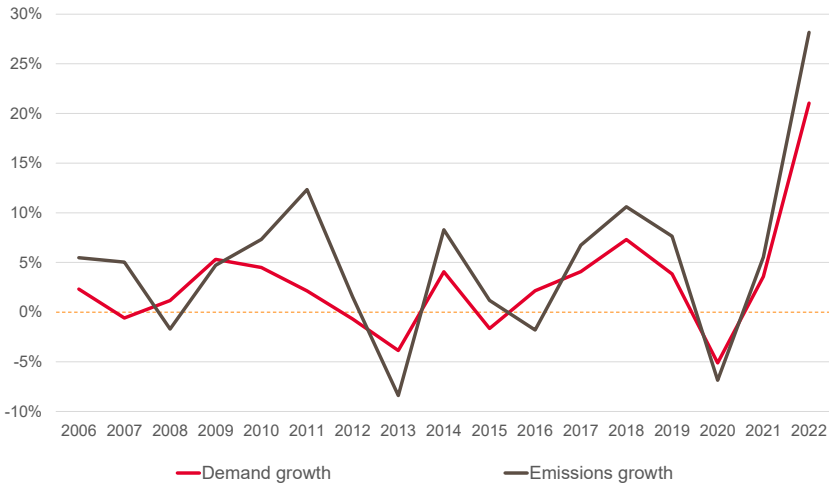
Primary energy demand mix



Electricity generation by source



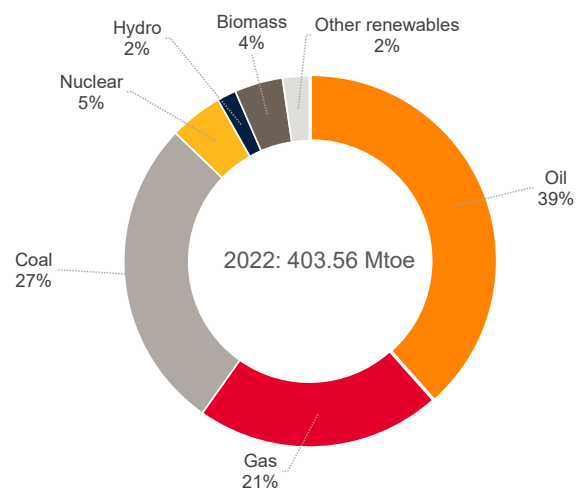
Primary energy demand and CO₂ emissions growth



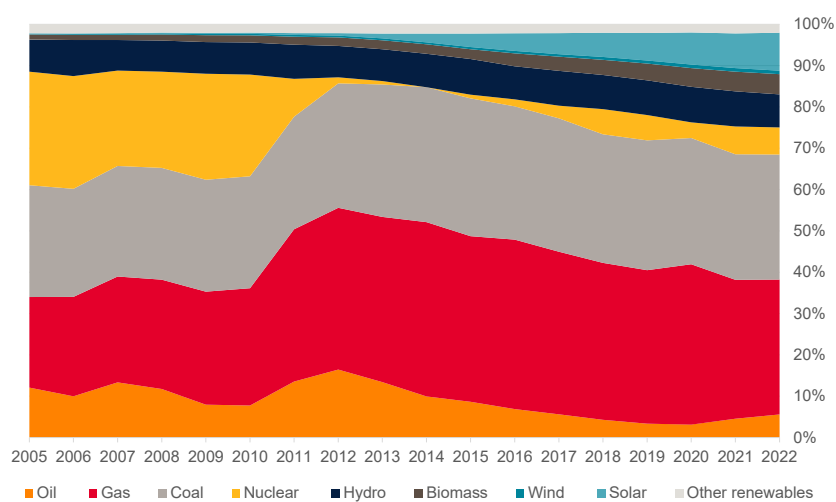
Japan (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	456.6	440.5	434.2	430.7	433.2	426.4	415.2	386.5	404.3	403.6	100.0
Oil	200.9	190.6	184.2	177.7	176.9	166.8	161.1	148.3	153.6	153.3	38.0
Gas	105.3	105.7	100.5	102.9	100.0	95.8	92.0	92.2	86.2	85.3	21.1
Coal	122.5	117.8	119.1	116.4	116.5	114.3	111.9	102.1	109.9	109.3	27.1
Nuclear	2.4	0.0	2.5	4.7	8.6	16.9	16.6	10.1	18.5	18.5	4.6
Hydro	6.8	7.2	7.5	6.8	7.2	7.0	6.9	6.8	6.9	6.6	1.6
Biomass	12.5	12.3	12.7	13.3	14.6	15.5	15.8	15.3	16.3	16.8	4.2
Other renewables	1.6	2.4	3.5	4.5	5.3	6.0	6.6	7.6	8.4	9.3	2.3
Electricity balance of trade*	4.6	4.5	4.4	4.3	4.2	4.1	4.4	4.3	4.6	4.5	1.1
Total final consumption, by source	326.5	317.3	313.0	308.2	311.3	303.9	297.9	278.0	282.1	276.5	100.0
Oil	161.5	155.2	154.1	150.1	150.6	146.0	142.7	132.5	131.6	129.5	46.8
Gas	28.6	28.2	28.5	28.1	29.3	28.9	28.8	26.6	27.8	27.7	10.0
Coal	44.1	43.3	41.9	41.2	41.3	40.5	39.5	33.9	36.9	34.6	12.5
Electricity	85.1	83.7	81.7	81.8	83.0	81.3	79.7	78.0	78.9	77.6	28.1
Heat	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.3
Biomass	6.2	5.9	6.0	6.1	6.2	6.4	6.3	6.0	6.1	6.2	2.2
Electricity generation, by source	95.0	92.5	91.0	92.1	93.0	91.9	89.5	87.5	90.9	92.7	100.0
Oil	12.7	9.2	7.9	6.3	5.2	3.9	3.0	2.7	4.1	5.2	5.6
Gas	38.0	39.0	36.5	37.8	36.6	34.9	33.2	34.0	30.6	30.2	32.6
Coal	30.4	30.2	30.4	29.7	30.0	28.6	28.1	26.7	27.6	28.0	30.2
Nuclear	0.8	0.0	0.8	1.6	2.8	5.6	5.5	3.3	6.1	6.1	6.6
Hydro	7.3	7.5	7.8	7.4	7.8	7.6	7.5	7.5	7.7	7.4	8.0
Biomass	2.1	2.1	2.2	2.9	3.2	3.4	3.6	3.9	4.3	4.5	4.9
Wind	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.8	0.8
Solar	1.1	2.0	3.0	3.9	4.7	5.4	6.0	6.8	7.7	8.5	9.2
Other renewables	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.7	2.0	1.9	2.0
Total final consumption, by sector	326.5	317.3	313.0	308.2	311.3	303.9	297.9	278.0	282.1	276.5	100.0
Industry	103.3	100.7	96.8	96.3	95.9	96.4	92.8	84.3	88.6	85.2	30.8
Transport	75.8	74.0	74.0	73.0	72.2	71.2	69.9	63.0	63.5	63.4	22.9
Residential/Commercial	99.3	96.4	93.4	92.5	95.3	92.1	90.5	89.9	89.3	89.6	32.4
Oil final consumption, by sector	161.5	155.2	154.1	150.1	150.6	146.0	142.7	132.5	131.6	129.5	100.0
Industry	14.9	14.1	12.6	12.4	11.6	12.0	10.8	10.5	10.9	10.0	7.7
Transport	74.0	72.1	72.1	71.0	70.3	69.2	68.0	61.0	61.6	61.5	47.5
Residential/Commercial	26.7	24.9	22.7	22.3	22.9	22.4	21.1	22.0	20.3	21.5	16.6
Natural gas final consumption, by sector	28.6	28.2	28.5	28.1	29.3	28.9	28.8	26.6	27.8	27.7	100.0
Industry	10.7	10.4	10.4	10.7	10.7	11.3	10.8	10.0	10.4	10.4	37.6
Transport	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	17.5	17.5	17.8	17.1	18.3	17.3	17.8	16.3	17.1	17.1	61.6
Refined products consumption	161.2	154.9	153.8	150.0	150.3	145.9	142.7	132.5	131.6	129.5	100.0
Gasoline	43.1	41.1	41.1	40.6	39.9	39.0	37.8	34.8	34.0	33.8	26.1
Diesel	40.0	38.7	38.4	38.0	38.1	37.9	36.8	35.5	35.2	35.3	27.3
Heating Oil	5.6	5.2	4.5	4.7	4.7	4.4	4.3	4.0	4.3	3.2	2.5
Aviation Jet	4.2	4.4	4.5	4.4	4.3	4.1	4.3	2.3	2.8	3.3	2.5
LPG	14.5	14.1	12.5	11.8	11.6	12.5	11.8	11.1	11.4	12.2	9.4
Imports	329.8	317.4	309.4	304.3	302.4	291.0	280.9	251.2	259.7	263.1	100.0
Oil	227.1	213.1	211.6	205.1	204.2	196.3	190.9	161.4	175.6	179.2	68.1
Gas	102.7	104.3	97.8	99.2	98.2	94.7	90.0	89.8	84.1	83.9	31.9
Gasoline	1.3	1.2	1.3	0.7	1.0	1.7	1.9	2.4	2.2	1.8	0.7
Diesel	0.3	0.6	0.5	0.4	0.5	0.6	0.8	1.3	1.6	0.4	0.2
Heating Oil	6.4	4.4	3.2	2.3	2.2	1.8	0.5	0.6	1.2	1.8	0.7
Aviation Jet	0.8	0.5	0.7	0.7	1.3	1.3	1.2	0.5	0.8	0.8	0.3
LPG	13.7	13.3	12.4	12.0	12.2	12.1	11.9	11.5	11.6	11.7	4.4
Exports	17.0	15.8	18.5	18.5	17.7	17.7	19.1	9.6	12.2	14.9	100.0
Oil	17.0	15.8	18.5	18.5	17.7	17.7	19.1	9.6	12.2	14.9	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	2.4	3.1	2.4	3.0	2.6	2.4	1.9	3.1	3.4	23.0
Diesel	9.2	7.8	8.8	8.3	8.7	8.0	9.2	3.5	5.4	7.8	52.6
Heating Oil	1.9	1.7	2.2	3.1	2.5	2.8	3.0	1.4	1.5	1.6	11.1
Aviation Jet	2.9	2.4	2.8	2.9	2.2	2.7	2.6	0.8	1.2	1.5	10.1
LPG	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.2
CO₂ Emissions (Million tons CO₂)	1,221.6	1,172.5	1,136.2	1,123.2	1,107.5	1,070.2	1,032.9	980.6	1,002.5	1,000.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	239.3	229.0	218.5	214.4	207.9	199.7	193.2	192.1	193.3	190.8	-
Final energy intensity (toe/million \$15ppp)	55.5	53.9	51.9	51.1	50.5	49.3	48.3	47.5	47.5	46.4	-
Total energy intensity (toe/million \$15ppp)	89.4	86.0	83.5	82.2	81.3	79.6	77.7	75.7	78.0	77.0	-

*Heat is included

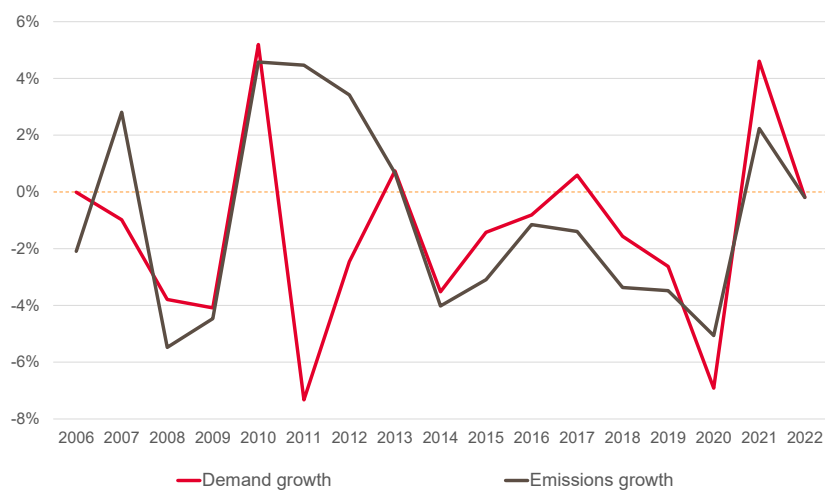
Primary energy demand mix



Electricity generation by source



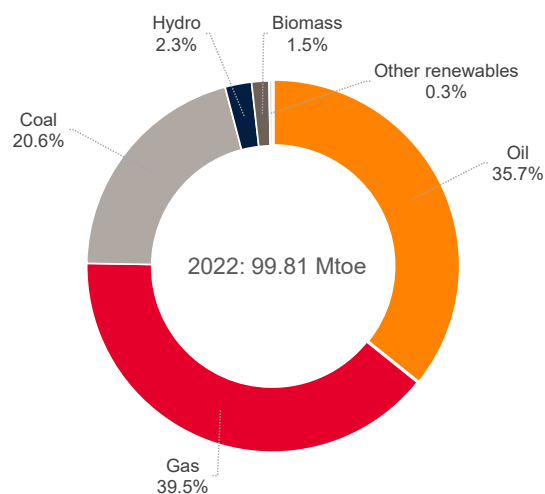
Primary energy demand and CO₂ emissions growth



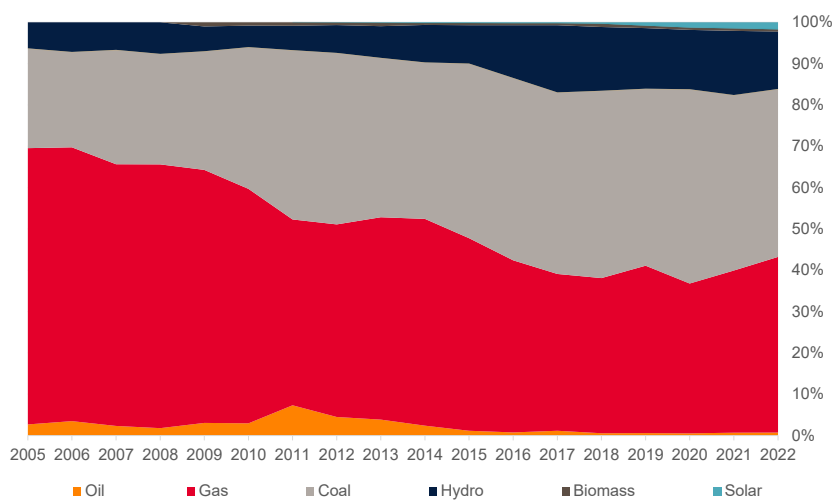
Malaysia (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	87.2	88.9	85.0	88.4	92.2	94.0	96.7	92.7	96.5	99.8	100.0
Oil	32.1	33.5	28.1	31.4	29.5	29.5	33.1	31.7	34.7	35.7	35.8
Gas	38.1	38.4	37.5	35.8	39.2	38.8	39.2	35.9	37.1	39.5	39.6
Coal	15.3	15.3	17.5	18.8	20.7	22.6	21.1	21.7	20.7	20.6	20.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.9	1.2	1.2	1.7	2.3	2.3	2.3	2.3	2.5	2.3	2.3
Biomass	0.8	0.7	0.7	0.7	0.6	0.9	1.0	1.1	1.2	1.5	1.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3
Electricity balance of trade*	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Total final consumption, by source	52.8	52.0	50.7	55.2	60.1	62.5	64.4	60.6	63.8	67.8	100.0
Oil	28.1	29.3	27.5	28.3	28.5	28.3	29.8	27.6	30.3	32.9	48.5
Gas	12.0	9.6	9.6	12.3	16.8	18.9	18.6	17.6	17.4	17.9	26.4
Coal	1.5	1.7	1.8	1.8	1.8	1.8	1.7	1.6	1.8	1.9	2.8
Electricity	11.0	11.0	11.4	12.4	12.6	13.2	13.6	13.1	13.4	14.2	20.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.3	0.3	0.4	0.4	0.4	0.4	0.6	0.7	0.8	1.0	1.4
Electricity generation, by source	11.9	12.7	12.9	13.5	14.1	14.7	15.3	15.7	16.1	16.7	100.0
Oil	0.5	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.7
Gas	5.8	6.3	6.0	5.6	5.3	5.5	6.2	5.7	6.3	7.1	42.5
Coal	4.6	4.8	5.5	5.9	6.2	6.6	6.6	7.4	6.8	6.8	40.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.9	1.2	1.2	1.7	2.3	2.3	2.3	2.3	2.5	2.3	13.9
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
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	0.2	0.2	0.3	1.7
Other renewables	-0.0	0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	52.8	52.0	50.7	55.2	60.1	62.5	64.4	60.6	63.8	67.8	100.0
Industry	15.0	14.8	15.0	16.2	17.6	19.4	19.3	18.2	18.8	19.7	29.1
Transport	20.1	22.5	21.2	21.7	21.6	21.1	22.6	20.8	23.4	25.6	37.8
Residential/Commercial	7.5	7.5	7.6	8.1	7.8	7.8	8.0	7.8	7.8	8.0	11.8
Oil final consumption, by sector	28.1	29.3	27.5	28.3	28.5	28.3	29.8	27.6	30.3	32.9	100.0
Industry	3.8	3.1	3.2	2.6	2.8	2.8	3.1	2.9	3.1	3.2	9.8
Transport	19.6	21.9	20.5	21.1	21.0	20.5	21.8	20.0	22.4	24.5	74.5
Residential/Commercial	1.7	1.5	1.5	1.5	1.4	1.2	1.2	1.2	1.2	1.2	3.7
Natural gas final consumption, by sector	12.0	9.6	9.6	12.3	16.8	18.9	18.6	17.6	17.4	17.9	100.0
Industry	4.5	4.9	4.8	6.0	6.8	8.3	7.7	7.3	7.2	7.4	41.3
Transport	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Refined products consumption	28.1	29.3	27.5	28.3	28.5	28.3	29.8	27.6	30.3	32.9	100.0
Gasoline	12.7	12.7	12.8	13.4	13.4	13.0	13.8	13.0	14.3	15.8	47.9
Diesel	9.6	10.6	9.4	9.3	9.4	9.8	10.6	10.0	11.6	12.6	38.4
Heating Oil	0.3	0.3	0.7	0.5	0.6	0.4	0.4	0.4	0.4	0.3	0.8
Aviation Jet	0.5	0.5	0.6	0.6	0.6	0.5	0.8	0.2	0.2	0.1	0.4
LPG	2.9	2.6	2.3	3.5	3.5	3.3	3.0	2.9	2.7	2.9	8.9
Imports	37.1	37.8	30.5	33.1	30.5	36.0	35.3	35.7	30.0	41.5	100.0
Oil	28.6	29.3	22.7	26.2	23.5	29.0	28.1	28.9	23.7	33.8	81.4
Gas	8.5	8.5	7.8	6.8	7.0	7.0	7.3	6.9	6.3	7.7	18.6
Gasoline	8.8	8.3	7.6	8.6	5.1	10.6	8.8	8.8	8.7	10.3	24.7
Diesel	5.1	6.2	4.6	3.9	5.2	6.9	6.2	6.2	6.4	6.5	15.6
Heating Oil	3.0	3.1	1.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3
Aviation Jet	0.9	0.5	0.6	1.4	1.2	0.5	0.6	1.3	0.9	0.9	2.1
LPG	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.6	1.0	2.4
Exports	51.4	52.5	54.5	57.2	56.9	58.4	53.8	53.1	51.1	56.2	100.0
Oil	22.8	23.5	26.3	28.9	26.0	31.0	24.3	25.4	21.4	23.4	41.7
Gas	28.6	29.0	28.1	28.3	30.9	27.3	29.5	27.7	29.8	32.7	58.3
Gasoline	0.1	0.0	0.4	0.5	0.3	3.1	0.3	0.3	0.5	0.5	0.9
Diesel	5.3	5.3	5.4	4.8	5.1	7.2	5.2	5.2	4.7	5.9	10.4
Heating Oil	3.0	4.3	1.4	0.6	0.6	1.4	0.4	0.4	0.5	0.6	1.0
Aviation Jet	0.6	0.5	0.5	1.1	1.3	0.8	0.7	1.8	1.8	1.6	2.9
LPG	0.3	0.3	0.3	0.4	0.2	0.5	0.6	0.5	0.9	1.1	1.9
CO₂ Emissions (Million tons CO₂)	221.3	228.3	228.2	227.5	243.2	246.1	249.8	246.8	253.5	265.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	328.4	319.6	304.0	290.1	293.1	282.9	275.0	287.9	286.7	276.1	-
Final energy intensity (toe/million \$15ppp)	64.7	64.1	59.6	59.2	57.4	56.6	55.9	55.6	57.6	56.8	-
Total energy intensity (toe/million \$15ppp)	129.5	124.5	113.3	112.7	111.2	108.1	106.5	108.2	109.1	103.9	-

*Heat is included

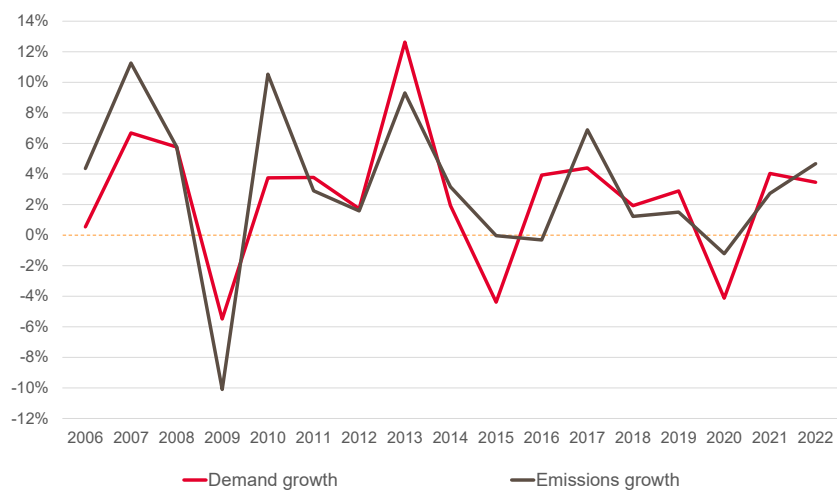
Primary energy demand mix



Electricity generation by source



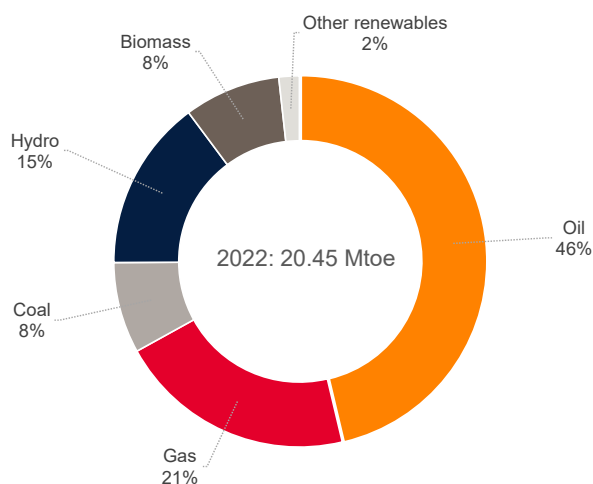
Primary energy demand and CO₂ emissions growth



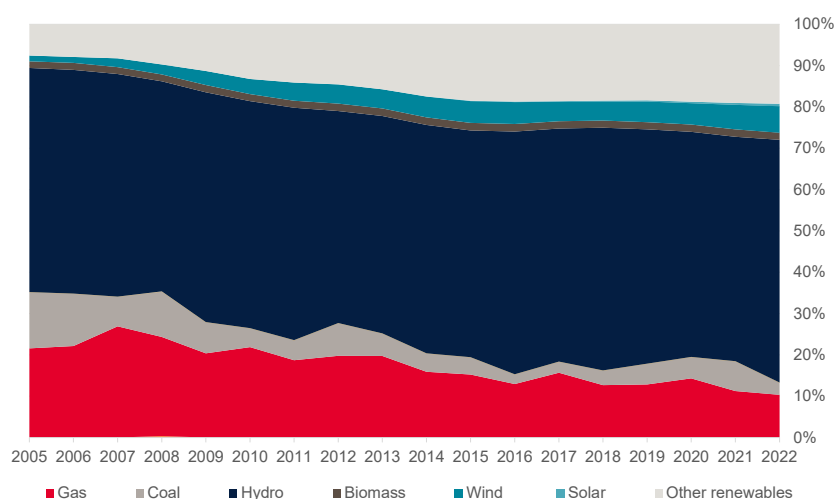
New Zealand (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	20.0	21.0	21.2	20.9	20.8	20.3	21.1	20.3	20.1	20.4	100.0
Oil	6.4	6.6	6.8	6.6	6.6	6.4	6.8	6.1	6.2	7.0	34.3
Gas	4.0	4.4	4.1	4.2	4.2	3.8	4.0	3.9	3.3	3.1	15.3
Coal	1.5	1.3	1.4	1.1	1.2	1.3	1.5	1.6	1.8	1.2	5.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.3	11.0
Biomass	1.3	1.3	1.3	1.4	1.3	1.3	1.3	1.2	1.2	1.3	6.2
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1.3
Electricity balance of trade*	4.7	5.1	5.3	5.1	5.1	5.1	5.1	5.1	5.2	5.3	25.9
Total final consumption, by source	13.5	14.4	14.3	14.7	14.8	14.5	15.1	13.9	13.8	13.6	100.0
Oil	5.9	6.1	6.2	6.4	6.6	6.7	6.9	6.1	6.4	6.4	47.1
Gas	2.3	3.0	2.7	2.9	2.8	2.5	2.8	2.6	2.2	2.1	15.2
Coal	1.0	0.9	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.8	5.9
Electricity	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	24.3
Heat	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.4
Biomass	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	6.1
Electricity generation, by source	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.8	3.8	3.8	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.4	10.3
Coal	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.1	3.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.0	2.1	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.3	58.7
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7
Wind	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	6.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Other renewables	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	19.2
Total final consumption, by sector	13.5	14.4	14.3	14.7	14.8	14.5	15.1	13.9	13.8	13.6	100.0
Industry	4.3	4.6	4.5	4.6	4.5	4.4	4.6	4.3	4.1	4.0	29.4
Transport	4.6	4.6	4.8	4.9	5.3	5.4	5.4	4.6	4.9	4.9	36.0
Residential/Commercial	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	21.3
Oil final consumption, by sector	5.9	6.1	6.2	6.4	6.6	6.7	6.9	6.1	6.4	6.4	100.0
Industry	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	7.1
Transport	4.6	4.6	4.8	4.9	5.2	5.4	5.4	4.6	4.9	4.9	76.3
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	4.9
Natural gas final consumption, by sector	2.3	3.0	2.7	2.9	2.8	2.5	2.8	2.6	2.2	2.1	100.0
Industry	1.1	1.4	1.2	1.3	1.3	1.2	1.4	1.2	1.1	1.0	47.6
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	14.8
Refined products consumption	5.9	6.1	6.2	6.4	6.6	6.7	6.9	6.1	6.4	6.4	100.0
Gasoline	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.3	2.3	2.3	35.4
Diesel	2.7	2.8	2.9	2.9	3.1	3.2	3.3	3.0	3.2	3.3	51.1
Heating Oil	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.3
Aviation Jet	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	5.2
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.4
Imports	7.6	7.6	7.6	8.2	8.1	8.3	8.1	6.9	6.5	7.7	100.0
Oil	7.6	7.6	7.6	8.2	8.1	8.3	8.1	6.9	6.5	7.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.2	1.2	1.1	1.0	1.1	1.0	1.0	1.2	1.3	2.3	29.4
Diesel	0.7	0.8	0.7	1.1	1.0	1.3	1.3	1.5	1.6	3.4	43.4
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.1
Aviation Jet	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.7	8.8
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Exports	1.8	2.0	2.0	1.8	1.6	1.3	1.3	0.9	0.8	0.8	100.0
Oil	1.8	2.0	2.0	1.8	1.6	1.3	1.3	0.9	0.8	0.8	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	0.0	0.0	5.4
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Heating Oil	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.0	0.1	0.0	5.8
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.5
CO₂ Emissions (Million tons CO₂)	31.3	32.0	31.8	31.3	32.8	32.4	34.1	31.3	30.9	30.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	195.4	192.3	184.1	174.5	176.6	169.0	173.8	161.5	152.7	145.6	-
Final energy intensity (toe/million \$15ppp)	77.0	77.0	74.8	72.7	71.6	68.9	69.1	64.8	62.5	60.7	-
Total energy intensity (toe/million \$15ppp)	124.5	126.1	122.6	116.3	112.2	105.9	107.5	104.7	99.1	98.5	-

*Heat is included

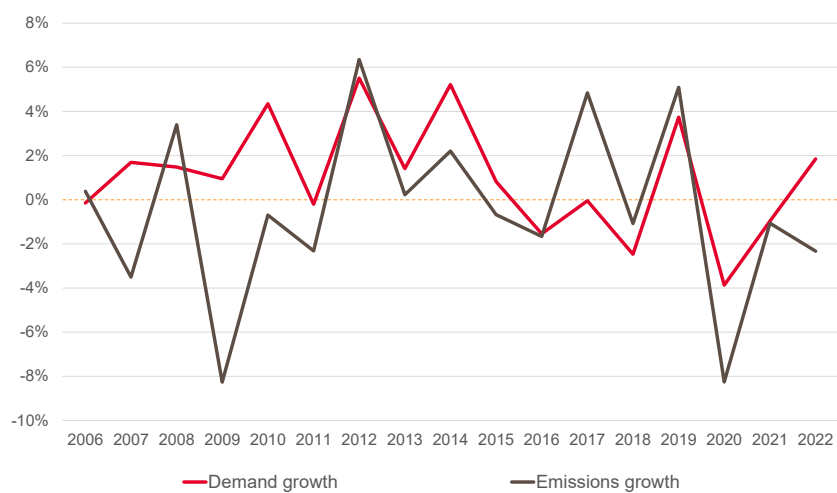
Primary energy demand mix



Electricity generation by source



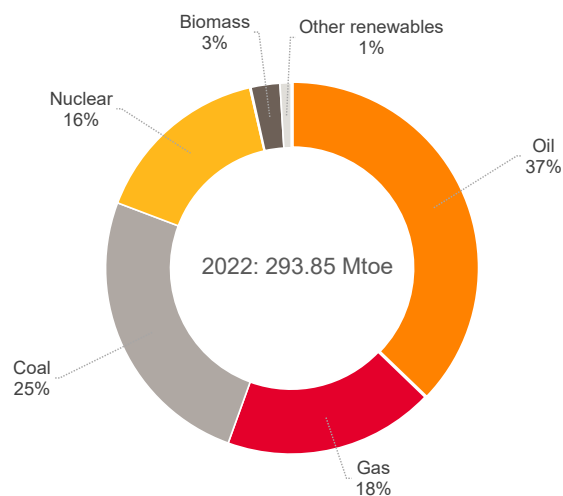
Primary energy demand and CO₂ emissions growth



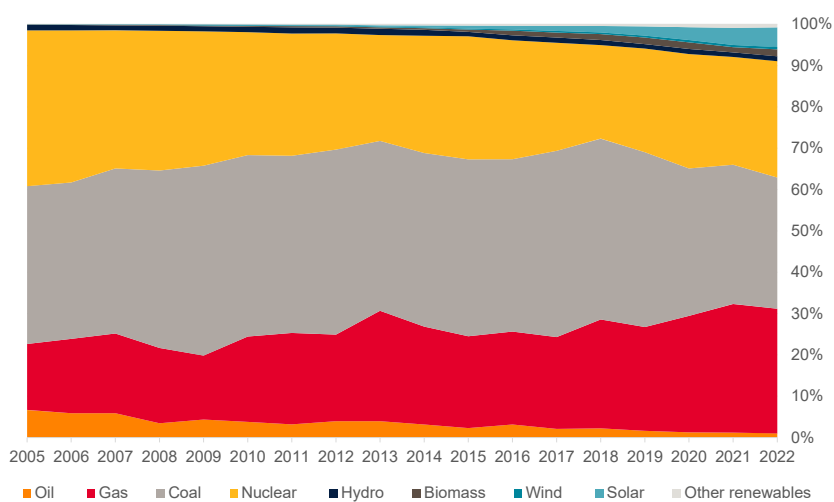
South Korea (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	263.8	268.4	272.6	282.3	282.2	282.0	280.1	276.1	292.1	293.9	100.0
Oil	96.6	96.3	102.7	109.8	109.1	110.4	104.4	101.3	111.0	109.0	37.1
Gas	47.6	43.1	39.3	41.3	43.2	47.5	48.9	49.5	54.2	53.7	18.3
Coal	77.9	81.7	80.8	81.5	82.6	80.5	80.0	74.3	75.2	74.0	25.2
Nuclear	36.2	40.8	42.9	42.2	38.7	34.8	38.0	41.7	41.2	45.9	15.6
Hydro	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.1
Biomass	4.7	5.5	5.8	6.3	7.1	7.0	6.6	6.5	7.0	7.4	2.5
Other renewables	0.2	0.3	0.5	0.6	0.8	1.0	1.3	1.8	2.4	2.9	1.0
Electricity balance of trade*	0.3	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.7	0.3
Total final consumption, by source	178.0	179.5	183.4	188.7	193.2	192.2	192.2	184.6	196.7	195.0	100.0
Oil	84.6	86.5	90.3	94.1	97.3	94.6	97.5	92.7	100.5	98.2	50.3
Gas	24.1	22.2	20.5	21.5	22.2	22.4	21.8	21.1	21.8	22.5	11.5
Coal	19.6	20.1	21.0	19.5	18.7	19.4	18.3	17.2	17.9	16.3	8.4
Electricity	41.9	41.9	42.6	44.5	45.0	45.7	45.0	44.1	46.2	47.5	24.3
Heat	4.4	4.7	4.5	5.0	5.3	5.8	5.8	5.7	6.0	6.6	3.4
Biomass	3.3	4.1	4.5	4.2	4.7	4.3	3.7	3.7	4.3	4.0	2.1
Electricity generation, by source	46.6	47.4	47.5	48.4	48.8	50.8	50.0	49.8	52.1	53.7	100.0
Oil	1.8	1.5	1.1	1.5	1.0	1.1	0.8	0.6	0.6	0.5	1.0
Gas	12.5	11.2	10.6	10.9	10.8	13.4	12.6	14.0	16.2	16.2	30.2
Coal	19.2	19.9	20.3	20.2	22.0	22.2	21.2	17.8	17.6	17.1	31.8
Nuclear	11.9	13.5	14.2	13.9	12.8	11.5	12.5	13.8	13.6	15.1	28.2
Hydro	0.7	0.7	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	1.2
Biomass	0.2	0.2	0.3	0.6	0.6	0.7	0.8	0.8	0.7	0.9	1.7
Wind	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.5
Solar	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	2.6	4.8
Other renewables	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.7
Total final consumption, by sector	178.0	179.5	183.4	188.7	193.2	192.2	192.2	184.6	196.7	195.0	100.0
Industry	57.8	58.4	58.2	57.8	58.4	59.3	57.5	55.5	58.6	57.6	29.5
Transport	31.9	32.4	34.4	35.4	36.1	35.6	37.1	34.7	36.8	36.6	18.8
Residential/Commercial	41.3	39.9	40.8	42.9	43.5	43.7	42.2	42.0	43.0	44.5	22.8
Oil final consumption, by sector	84.6	86.5	90.3	94.1	97.3	94.6	97.5	92.7	100.5	98.2	100.0
Industry	3.5	3.5	3.4	3.6	3.6	3.7	3.6	4.1	4.0	3.9	4.0
Transport	30.1	30.6	32.6	33.4	34.1	33.5	35.0	32.7	34.8	34.6	35.2
Residential/Commercial	5.7	5.4	6.2	6.4	6.4	6.1	5.5	5.5	5.4	5.4	5.5
Natural gas final consumption, by sector	24.1	22.2	20.5	21.5	22.2	22.4	21.8	21.1	21.8	22.5	100.0
Industry	9.8	8.8	7.4	7.5	7.5	7.5	7.4	6.9	7.4	7.3	32.7
Transport	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	4.5
Residential/Commercial	13.1	12.2	11.9	12.8	13.5	13.7	13.2	13.1	13.4	14.1	62.8
Refined products consumption	84.6	86.5	90.3	94.1	97.3	94.6	97.5	92.7	100.5	98.2	100.0
Gasoline	9.2	9.2	9.6	9.9	9.9	10.0	10.3	10.1	10.6	11.0	11.2
Diesel	19.8	20.1	21.7	22.1	22.9	22.0	23.2	21.9	22.1	21.3	21.6
Heating Oil	1.8	1.6	1.7	1.9	1.6	1.5	1.2	1.0	0.9	0.9	0.9
Aviation Jet	1.2	1.5	1.7	1.7	1.8	1.8	1.5	1.4	2.8	2.8	2.9
LPG	8.6	8.3	8.7	9.5	9.2	9.8	10.9	10.6	10.6	11.1	11.3
Imports	213.6	212.4	218.7	229.4	234.5	243.6	236.1	223.1	233.2	240.9	100.0
Oil	165.9	168.3	179.7	189.8	190.9	194.0	187.9	175.0	178.6	185.8	77.1
Gas	47.7	44.0	38.9	39.6	43.6	49.6	48.2	48.1	54.6	55.1	22.9
Gasoline	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	1.4	0.8	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	0.1
Heating Oil	7.1	8.0	7.2	7.2	6.1	6.7	4.8	4.5	5.6	3.1	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	6.4	6.1	6.0	8.3	7.2	7.4	9.0	9.5	9.1	10.1	4.2
Exports	56.9	59.0	62.8	64.3	66.8	70.9	69.3	61.7	59.0	65.6	100.0
Oil	56.9	59.0	62.8	64.3	66.8	70.9	69.3	61.7	59.0	65.6	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	8.0	9.1	9.9	9.5	10.2	11.0	11.0	9.2	12.3	12.5	19.1
Diesel	22.3	23.8	23.5	23.9	24.0	26.0	26.7	27.2	24.7	27.8	42.4
Heating Oil	3.4	2.1	1.6	2.0	2.5	4.1	2.7	2.0	1.3	1.9	2.9
Aviation Jet	12.0	12.6	14.4	14.9	16.1	15.5	15.4	10.7	8.4	11.0	16.8
LPG	0.1	0.1	0.1	0.2	0.2	0.5	0.5	0.6	0.3	0.1	0.1
CO₂ Emissions (Million tons CO₂)	628.2	624.3	638.5	655.5	665.1	667.1	652.7	609.4	615.1	597.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	344.7	332.0	330.2	329.3	323.9	315.7	302.1	284.5	276.0	261.3	-
Final energy intensity (toe/million \$15ppp)	73.6	70.9	70.3	69.7	68.5	66.9	64.6	63.0	63.4	62.0	-
Total energy intensity (toe/million \$15ppp)	144.8	142.7	141.0	141.8	137.4	133.4	129.6	128.9	131.1	128.6	-

*Heat is included

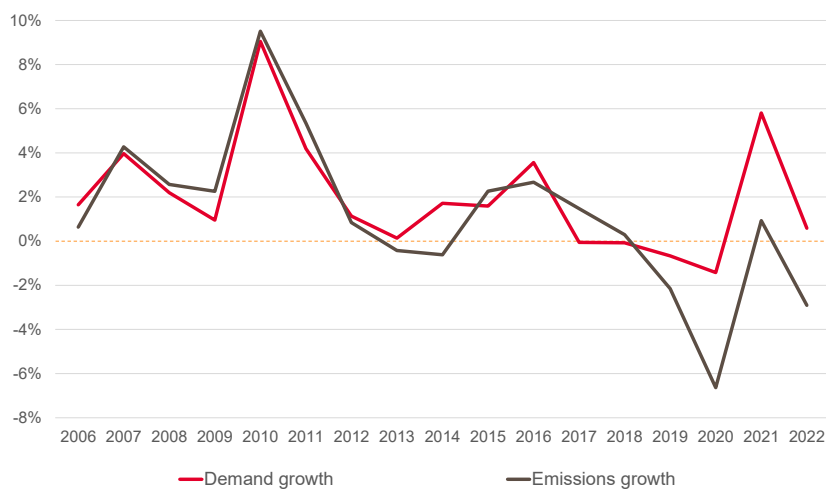
Primary energy demand mix



Electricity generation by source



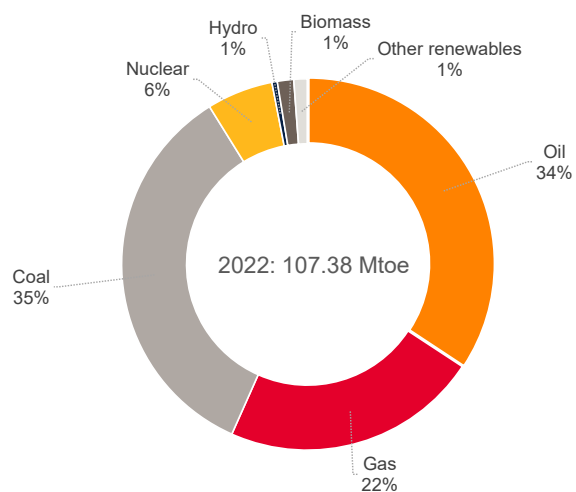
Primary energy demand and CO₂ emissions growth



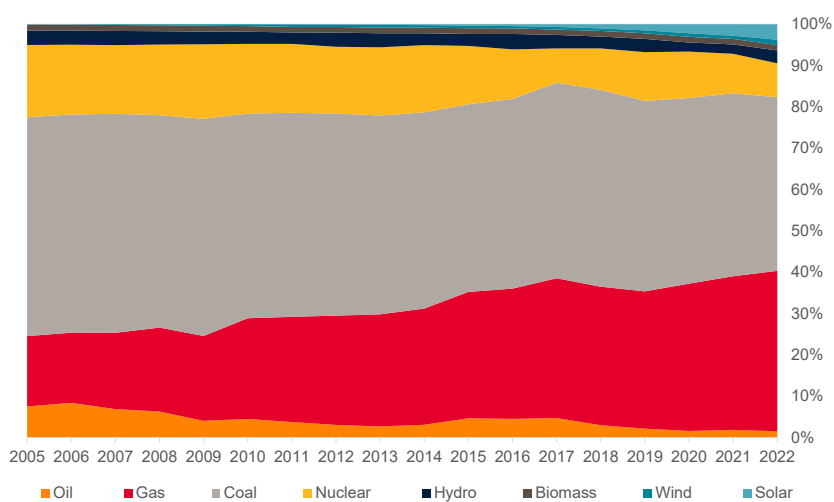
Taiwan (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	109.8	111.9	110.6	111.2	110.7	112.1	109.5	107.3	111.3	107.4	100.0
Oil	41.9	42.7	42.8	43.4	43.1	42.5	39.7	38.7	39.0	36.8	34.2
Gas	15.2	16.1	17.3	18.1	19.9	20.1	19.8	21.4	23.2	24.0	22.4
Coal	39.4	39.8	38.6	39.0	39.6	39.9	39.1	36.4	39.1	37.0	34.5
Nuclear	10.9	11.0	9.5	8.3	5.8	7.2	8.4	8.2	7.2	6.2	5.8
Hydro	0.5	0.4	0.4	0.6	0.5	0.4	0.5	0.3	0.3	0.5	0.5
Biomass	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
Other renewables	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.2
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	73.2	74.3	74.1	74.8	74.2	75.5	72.9	73.3	76.8	72.2	100.0
Oil	38.9	39.2	39.5	39.4	38.7	39.3	37.0	37.2	38.6	35.1	48.6
Gas	2.8	3.0	3.2	3.4	3.6	3.9	4.0	4.1	4.6	4.8	6.7
Coal	10.1	10.2	9.7	10.0	9.5	8.7	8.5	8.0	8.5	7.5	10.4
Electricity	19.5	20.0	19.9	20.3	20.8	21.3	21.2	21.7	22.8	22.4	31.1
Heat	1.4	1.4	1.3	1.3	1.3	2.0	1.8	1.8	1.9	1.9	2.7
Biomass	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
Electricity generation, by source	21.7	22.4	22.2	22.7	23.2	23.7	23.6	24.1	25.0	24.8	100.0
Oil	0.6	0.7	1.0	1.0	1.1	0.7	0.5	0.4	0.5	0.4	1.5
Gas	5.9	6.3	6.8	7.2	7.9	7.9	7.8	8.6	9.3	9.6	38.8
Coal	10.4	10.6	10.1	10.4	11.0	11.3	10.9	10.8	11.1	10.4	42.0
Nuclear	3.6	3.6	3.1	2.7	1.9	2.4	2.8	2.7	2.4	2.0	8.2
Hydro	0.7	0.6	0.6	0.8	0.8	0.7	0.8	0.5	0.6	0.8	3.1
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	0.2	0.2	0.2	0.3	1.3
Solar	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7	0.9	3.7
Other renewables	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	73.2	74.3	74.1	74.8	74.2	75.5	72.9	73.3	76.8	72.2	100.0
Industry	27.3	27.6	26.6	27.0	26.9	27.7	27.0	26.8	28.7	27.3	37.8
Transport	11.8	12.0	12.3	12.6	12.5	12.2	12.3	12.4	11.7	12.0	16.6
Residential/Commercial	10.8	11.0	11.1	11.4	11.4	11.1	11.1	11.4	11.5	11.6	16.0
Oil final consumption, by sector	38.9	39.2	39.5	39.4	38.7	39.3	37.0	37.2	38.6	35.1	100.0
Industry	2.8	2.5	2.0	1.8	1.8	1.8	1.5	1.2	1.3	1.0	2.9
Transport	11.7	11.8	12.2	12.5	12.4	12.0	12.1	12.2	11.6	11.9	33.9
Residential/Commercial	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	4.5
Natural gas final consumption, by sector	2.8	3.0	3.2	3.4	3.6	3.9	4.0	4.1	4.6	4.8	100.0
Industry	1.8	2.0	2.1	2.3	2.5	2.8	2.9	3.0	3.4	3.6	75.1
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	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	23.7
Refined products consumption	38.9	39.2	39.5	39.4	38.7	39.3	37.0	37.2	38.6	35.1	100.0
Gasoline	7.5	7.6	7.9	8.2	8.0	7.8	7.8	7.9	7.3	7.5	21.5
Diesel	4.6	4.7	4.7	4.8	4.7	4.7	4.8	4.9	4.9	5.0	14.1
Heating Oil	2.9	2.5	2.1	1.9	1.8	1.5	1.2	0.9	1.0	0.7	2.0
Aviation Jet	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.7
LPG	3.0	3.0	2.6	3.3	2.6	3.1	3.1	2.6	1.8	1.8	5.2
Imports	76.5	80.5	80.3	82.2	83.6	84.6	82.5	76.3	79.3	80.0	100.0
Oil	61.5	64.6	63.3	64.5	63.9	64.4	62.6	55.0	55.9	56.0	70.0
Gas	15.0	15.9	17.1	17.8	19.8	20.2	19.9	21.3	23.3	24.0	30.0
Gasoline	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2
Diesel	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Heating Oil	1.5	1.8	1.0	1.7	2.5	2.2	1.2	0.6	0.8	0.8	1.0
Aviation Jet	0.0	0.0	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.1
LPG	1.4	2.0	1.6	2.1	1.5	2.1	2.1	1.8	0.6	0.9	1.2
Exports	17.5	17.5	17.0	17.4	17.3	18.5	19.6	13.0	14.7	16.6	100.0
Oil	17.5	17.5	17.0	17.4	17.3	18.5	19.6	13.0	14.7	16.6	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	4.3	4.2	4.3	4.7	4.4	4.1	3.7	1.8	3.2	3.4	20.4
Diesel	9.9	9.9	9.0	8.9	8.3	9.4	10.0	6.6	6.7	8.5	51.3
Heating Oil	0.6	0.7	1.0	1.3	1.6	1.9	1.8	1.6	1.9	1.6	9.4
Aviation Jet	1.3	1.0	1.0	0.9	0.8	1.0	0.9	0.8	0.4	0.9	5.3
LPG	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	265.3	270.5	271.1	275.3	283.0	279.4	268.2	266.6	264.3	273.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	528.3	517.8	514.8	515.5	515.0	494.8	460.8	443.0	412.3	416.9	-
Final energy intensity (toe/million \$15ppp)	101.0	98.5	96.4	97.0	93.8	91.8	88.0	85.4	82.3	78.8	-
Total energy intensity (toe/million \$15ppp)	218.6	214.2	210.0	208.2	201.6	198.5	188.2	178.3	173.7	163.5	-

*Heat is included

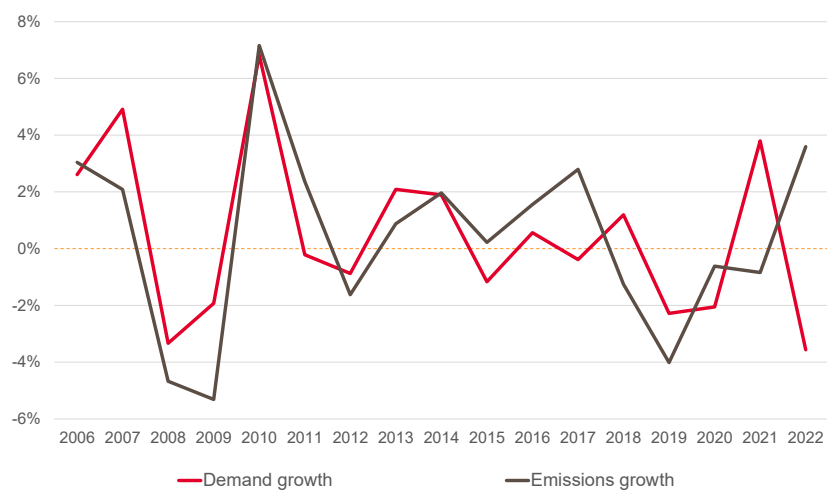
Primary energy demand mix



Electricity generation by source



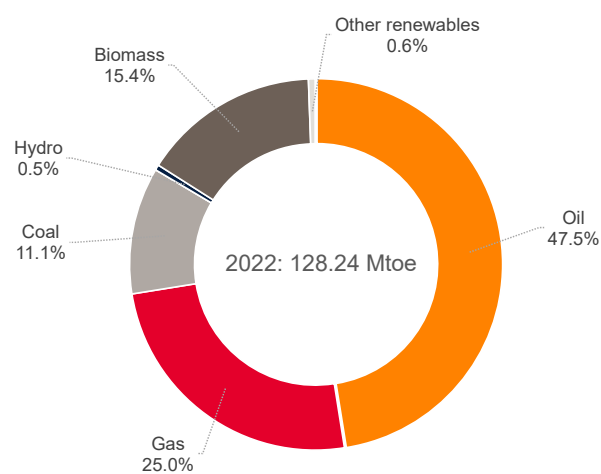
Primary energy demand and CO₂ emissions growth



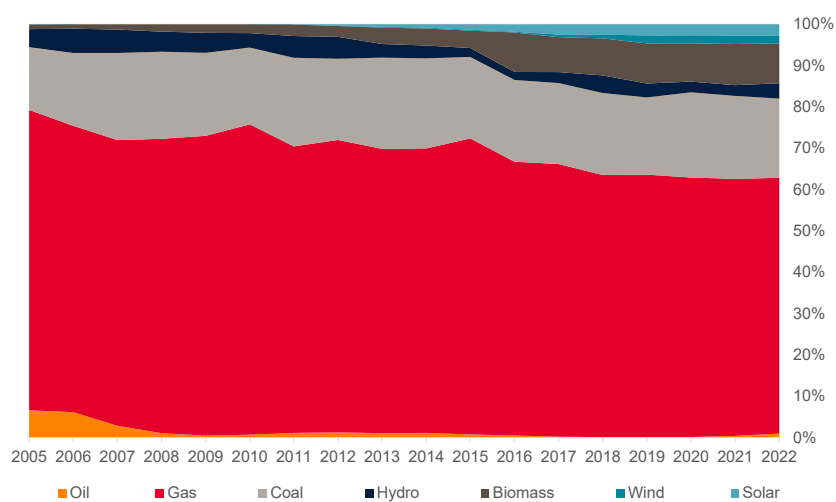
Thailand (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	135.8	135.2	135.6	138.7	138.0	135.1	138.7	133.1	128.4	128.2	100.0
Oil	54.4	54.2	54.1	55.9	56.4	54.7	55.1	55.1	54.3	59.5	46.4
Gas	37.9	37.8	37.8	36.9	36.0	35.5	36.6	34.5	33.9	31.3	24.4
Coal	17.2	15.9	16.9	15.4	16.4	15.8	16.3	17.1	15.3	13.9	10.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.6	0.5
Biomass	24.7	25.7	25.3	28.2	26.3	25.7	27.3	23.0	21.1	19.3	15.1
Other renewables	0.1	0.1	0.2	0.3	0.5	0.5	0.8	0.7	0.7	0.7	0.6
Electricity balance of trade*	1.0	0.9	1.1	1.6	2.0	2.2	2.0	2.3	2.7	2.9	2.2
Total final consumption, by source	95.3	96.0	98.1	97.2	99.0	100.4	102.5	96.7	92.6	93.8	100.0
Oil	51.2	51.1	51.9	53.5	53.8	54.7	55.0	53.9	53.6	56.9	60.7
Gas	7.1	7.4	7.2	7.2	7.0	7.3	7.1	5.3	5.4	5.7	6.0
Coal	7.3	6.4	8.2	6.1	7.5	6.9	7.8	8.5	6.8	5.3	5.6
Electricity	14.1	14.5	15.0	15.9	15.9	16.2	16.6	16.1	16.4	17.0	18.1
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	15.5	16.5	15.9	14.5	14.7	15.3	15.9	12.8	10.4	8.9	9.5
Electricity generation, by source	14.6	14.8	15.2	16.2	15.6	15.7	16.4	15.4	15.5	16.0	100.0
Oil	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2	1.0
Gas	10.1	10.2	10.9	10.7	10.3	9.9	10.4	9.7	9.7	9.9	61.9
Coal	3.2	3.2	3.0	3.2	3.1	3.1	3.1	3.2	3.1	3.1	19.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.6	3.7
Biomass	0.6	0.6	0.6	1.5	1.3	1.4	1.6	1.4	1.5	1.5	9.7
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	1.9
Solar	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	95.3	96.0	98.1	97.2	99.0	100.4	102.5	96.7	92.6	93.8	100.0
Industry	28.4	30.5	32.1	31.3	31.6	31.6	33.5	31.2	28.6	27.2	29.0
Transport	21.9	21.6	22.8	24.1	26.3	26.4	27.1	26.7	24.7	27.6	29.5
Residential/Commercial	17.5	16.6	16.6	15.8	15.6	14.9	15.4	14.2	13.7	13.5	14.4
Oil final consumption, by sector	51.2	51.1	51.9	53.5	53.8	54.7	55.0	53.9	53.6	56.9	100.0
Industry	5.0	6.1	5.7	6.5	5.0	4.1	4.6	4.3	4.5	5.1	9.0
Transport	18.2	17.5	18.8	20.2	22.5	22.6	23.3	23.4	21.8	24.7	43.3
Residential/Commercial	2.8	2.6	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.5	4.3
Natural gas final consumption, by sector	7.1	7.4	7.2	7.2	7.0	7.3	7.1	5.3	5.4	5.7	100.0
Industry	2.4	2.5	3.0	3.3	3.3	3.5	3.5	3.4	3.8	4.0	69.9
Transport	2.5	2.6	2.5	2.3	2.0	1.8	1.6	1.1	0.9	1.0	17.5
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	50.7	50.6	51.3	52.8	53.2	54.1	54.4	53.4	53.1	56.5	100.0
Gasoline	5.5	5.6	6.3	7.0	7.1	7.3	7.5	7.5	6.9	7.1	12.6
Diesel	17.3	17.3	18.0	18.6	19.0	18.5	19.8	18.9	18.2	20.8	36.8
Heating Oil	1.0	1.0	0.6	0.8	0.8	0.7	0.7	1.3	1.5	1.8	3.2
Aviation Jet	0.6	0.6	0.9	0.9	1.0	0.9	0.9	0.7	0.4	0.8	1.5
LPG	8.7	8.7	7.7	7.1	7.3	7.7	7.7	6.6	7.1	7.5	13.2
Imports	59.9	57.8	62.8	62.8	66.1	69.1	65.9	64.2	65.5	70.4	100.0
Oil	50.4	49.0	50.8	51.2	53.7	56.4	53.4	51.3	51.9	55.9	79.4
Gas	9.5	8.9	12.0	11.6	12.4	12.6	12.5	12.9	13.6	14.5	20.6
Gasoline	0.2	0.7	0.6	1.2	1.3	1.2	1.7	1.1	0.5	0.4	0.6
Diesel	0.2	0.3	0.1	0.7	0.7	0.5	2.1	0.0	0.2	0.9	1.3
Heating Oil	0.3	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.1
LPG	2.3	2.5	1.6	0.5	0.8	0.8	0.6	0.6	0.6	1.8	2.6
Exports	14.3	12.6	14.1	12.9	14.1	15.0	11.8	12.3	12.6	10.0	100.0
Oil	14.3	12.6	14.1	12.9	14.1	15.0	11.8	12.3	12.6	10.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.2	1.0	1.1	1.1	1.2	1.3	0.9	1.1	1.5	1.6	15.6
Diesel	4.2	3.8	5.4	4.2	4.6	4.8	3.3	5.0	5.6	3.0	29.9
Heating Oil	3.6	3.6	3.5	3.1	3.3	3.3	3.1	2.5	2.9	2.8	28.1
Aviation Jet	1.2	1.0	1.2	0.4	0.6	0.8	0.7	0.5	0.3	0.7	6.8
LPG	0.0	0.0	0.0	0.1	0.3	0.5	0.4	0.3	0.2	0.2	2.2
CO₂ Emissions (Million tons CO₂)	262.0	257.4	263.9	260.2	260.1	258.8	268.3	257.4	246.5	250.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	250.9	244.2	242.7	231.4	222.1	212.0	215.1	220.0	207.5	205.3	-
Final energy intensity (toe/million \$15ppp)	68.8	68.9	69.4	66.0	65.0	62.1	63.2	63.6	58.3	58.1	-
Total energy intensity (toe/million \$15ppp)	130.1	128.2	124.7	123.4	117.8	110.7	111.2	113.8	108.1	105.1	-

*Heat is included

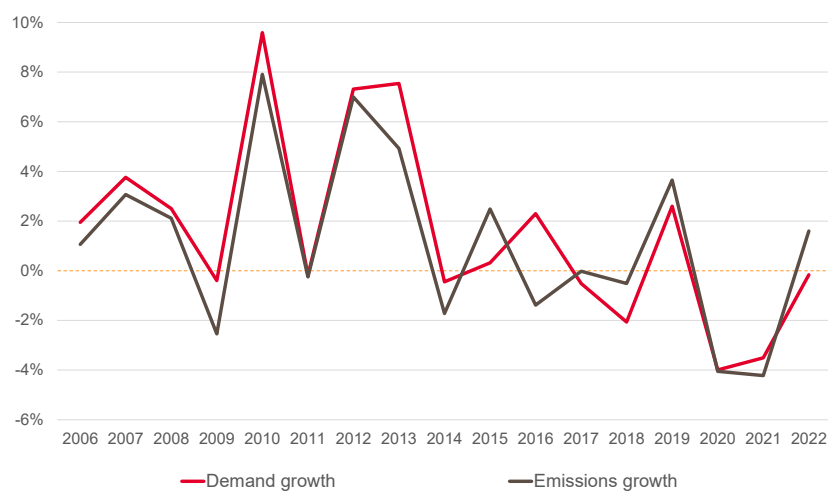
Primary energy demand mix



Electricity generation by source



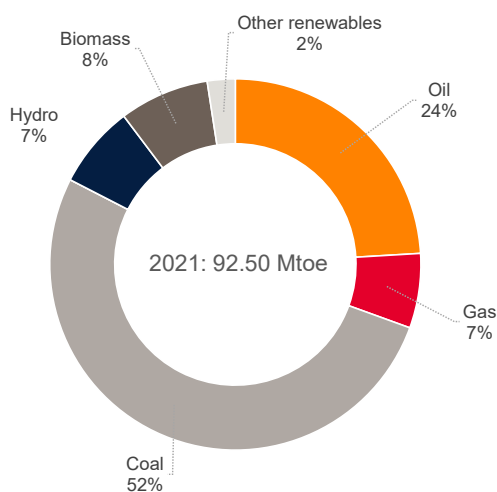
Primary energy demand and CO₂ emissions growth



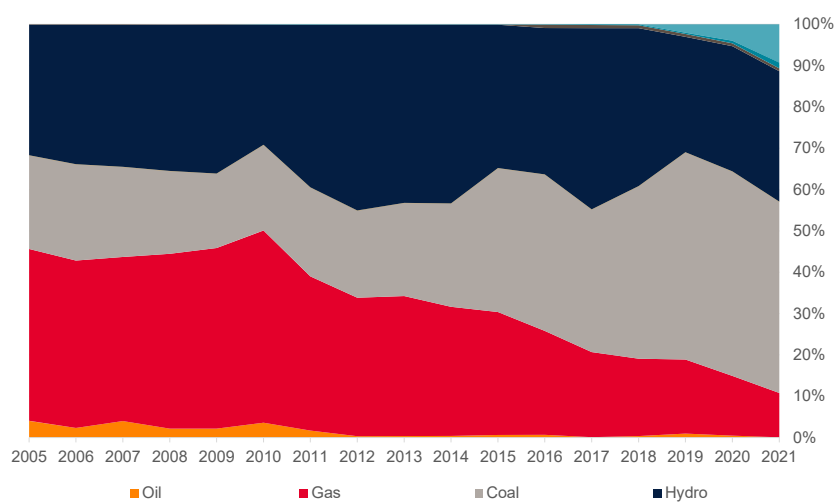
Vietnam (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2021 (%)
Total primary energy demand, by source	61.1	68.4	63.1	69.5	72.1	85.2	95.9	97.3	92.5	n.d.	100.0
Oil	15.9	19.2	17.4	18.5	19.8	22.8	25.2	24.2	22.2	n.d.	24.0
Gas	8.5	9.1	7.9	9.0	8.3	8.3	8.5	7.4	6.0	n.d.	6.5
Coal	17.2	19.9	24.4	27.2	27.4	37.3	46.5	50.8	48.1	n.d.	52.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	4.5	5.1	4.8	5.5	7.4	7.1	5.7	6.3	6.7	n.d.	7.2
Biomass	14.8	14.8	8.5	9.2	9.2	9.6	9.4	7.5	7.2	n.d.	7.8
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.2	n.d.	2.4
Electricity balance of trade*	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	0.1
Total final consumption, by source	51.7	55.0	46.8	49.3	52.1	59.7	65.0	66.6	66.0	n.d.	100.0
Oil	15.6	16.7	17.4	18.7	19.9	20.9	21.9	19.5	19.5	n.d.	29.5
Gas	1.5	1.6	1.1	1.3	1.4	1.4	1.4	1.4	1.5	n.d.	2.3
Coal	10.9	11.8	7.9	7.7	8.2	13.1	16.2	21.2	20.6	n.d.	31.2
Electricity	10.0	11.0	12.3	13.7	14.9	16.5	18.0	18.7	19.0	n.d.	28.8
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	13.8	13.8	8.1	7.9	7.8	7.8	7.5	5.7	5.4	n.d.	8.2
Electricity generation, by source	10.4	11.9	13.9	15.5	16.9	18.7	20.4	20.7	21.1	n.d.	100.0
Oil	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.0	n.d.	0.1
Gas	3.5	3.7	4.1	3.9	3.5	3.5	3.7	3.0	2.3	n.d.	10.7
Coal	2.3	3.0	4.9	5.9	5.8	7.8	10.2	10.2	9.8	n.d.	46.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	4.5	5.1	4.8	5.5	7.4	7.1	5.7	6.3	6.7	n.d.	31.6
Biomass	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	0.7
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	n.d.	1.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.0	n.d.	9.3
Other renewables	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	n.d.	-0.0
Total final consumption, by sector	51.7	55.0	46.8	49.3	52.1	59.7	65.0	66.6	66.0	n.d.	100.0
Industry	20.5	22.7	18.6	20.3	21.7	27.9	31.9	36.4	36.1	n.d.	54.7
Transport	9.8	10.0	11.1	12.3	13.4	14.0	14.6	12.3	12.3	n.d.	18.6
Residential/Commercial	18.4	18.6	12.9	12.7	12.8	13.0	13.2	12.7	12.4	n.d.	18.7
Oil final consumption, by sector	15.6	16.7	17.4	18.7	19.9	20.9	21.9	19.5	19.5	n.d.	100.0
Industry	1.4	1.6	1.5	1.9	1.6	1.6	1.6	1.5	1.6	n.d.	8.1
Transport	9.8	10.0	11.1	12.2	13.3	13.9	14.5	12.2	12.2	n.d.	62.5
Residential/Commercial	1.5	1.6	1.8	1.7	1.9	2.0	2.2	2.2	2.0	n.d.	10.4
Natural gas final consumption, by sector	1.5	1.6	1.1	1.3	1.4	1.4	1.4	1.4	1.5	n.d.	100.0
Industry	1.5	1.6	0.4	0.7	0.8	0.8	0.7	0.8	0.8	n.d.	53.1
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	1.5
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Refined products consumption	15.6	16.7	17.4	18.7	19.9	20.9	21.9	19.5	19.5	n.d.	100.0
Gasoline	4.8	4.7	5.4	5.9	6.5	6.7	6.9	5.9	5.9	n.d.	30.4
Diesel	6.2	6.7	7.9	8.9	9.3	9.7	10.1	8.7	9.2	n.d.	47.0
Heating Oil	0.2	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.3	n.d.	1.5
Aviation Jet	0.4	0.4	0.6	0.8	0.8	0.8	1.0	0.8	0.4	n.d.	2.2
LPG	1.5	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.3	n.d.	12.0
Imports	10.7	12.6	12.9	14.5	16.1	19.0	20.8	23.3	19.6	n.d.	100.0
Oil	10.7	12.6	12.9	14.5	16.1	19.0	20.8	23.3	19.6	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	2.4	2.6	2.8	2.6	3.3	2.4	2.1	1.6	0.9	n.d.	4.6
Diesel	3.2	4.2	5.3	6.8	7.4	5.9	4.8	4.9	4.8	n.d.	24.5
Heating Oil	0.7	0.7	0.7	0.9	0.6	0.7	0.8	0.7	0.6	n.d.	3.3
Aviation Jet	1.2	1.2	1.4	1.6	1.8	2.1	2.1	1.2	0.7	n.d.	3.4
LPG	0.8	0.8	1.2	1.3	1.5	1.6	2.0	2.0	1.7	n.d.	8.5
Exports	9.8	10.6	10.6	9.9	9.1	6.7	5.8	6.6	5.1	n.d.	100.0
Oil	9.8	10.6	10.6	9.9	9.1	6.7	5.8	6.6	5.1	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.3	n.d.	6.2
Diesel	0.5	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	n.d.	12.7
Heating Oil	0.2	0.1	0.1	0.3	0.3	0.4	0.5	0.4	0.4	n.d.	7.3
Aviation Jet	0.3	0.4	0.3	0.4	0.3	0.4	0.2	0.3	0.3	n.d.	5.7
LPG	0.1	0.0	0.0	0.3	0.2	0.3	0.5	0.3	0.3	n.d.	5.2
CO₂ Emissions (Million tons CO₂)	132.8	147.0	166.0	184.0	185.3	231.1	275.9	283.7	271.4	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	215.9	224.6	237.0	246.3	232.0	269.8	300.6	300.4	280.1	n.d.	-
Final energy intensity (toe/million \$15ppp)	80.2	79.3	63.9	64.0	63.4	67.7	68.7	68.4	66.1	n.d.	-
Total energy intensity (toe/million \$15ppp)	99.4	104.5	90.1	93.0	90.2	99.5	104.5	103.0	95.4	n.d.	-

*Heat is included

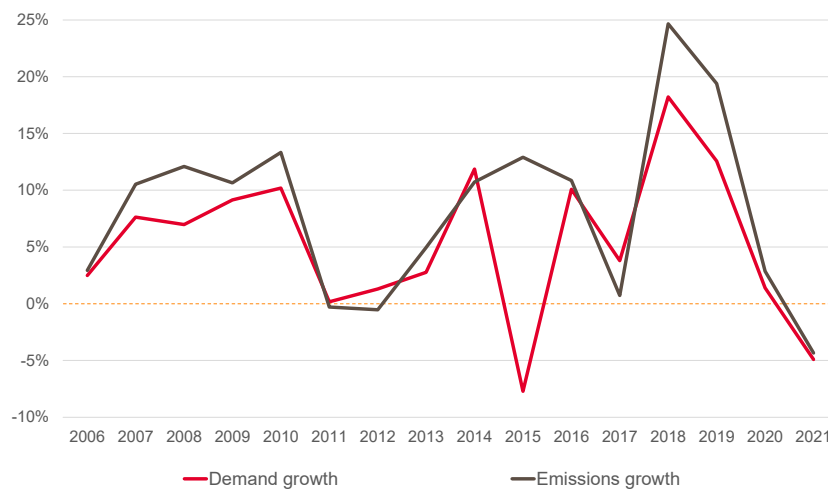
Primary energy demand mix



Electricity generation by source



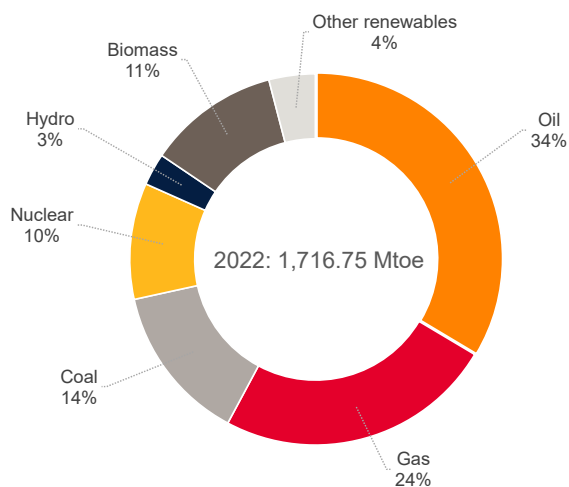
Primary energy demand and CO₂ emissions growth



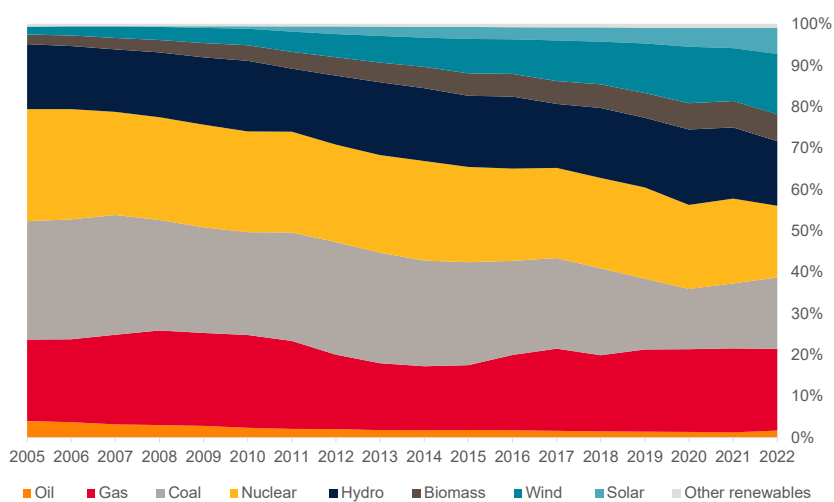
Europe (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	1,843.2	1,778.2	1,804.6	1,825.0	1,859.2	1,845.7	1,815.9	1,704.7	1,785.4	1,716.8	100.0
Oil	578.5	572.7	582.0	592.6	608.4	595.6	591.6	538.9	559.2	565.7	33.0
Gas	435.6	393.9	408.5	431.6	453.0	443.4	448.2	438.3	459.4	409.0	23.8
Coal	334.8	316.1	312.9	296.7	290.6	282.5	241.1	206.0	223.7	231.3	13.5
Nuclear	235.3	235.6	229.4	224.3	221.5	222.2	221.0	197.5	207.7	170.8	10.0
Hydro	55.1	54.0	53.6	54.8	48.9	53.9	52.9	55.6	54.6	47.2	2.7
Biomass	156.3	154.4	159.8	163.1	167.4	173.6	178.6	179.9	191.2	193.8	11.3
Other renewables	29.4	32.1	37.6	38.3	44.5	46.9	53.1	59.3	59.3	67.9	4.0
Electricity balance of trade*	18.3	19.3	20.9	23.6	24.9	27.5	29.4	29.2	30.4	30.9	1.8
Total final consumption, by source	1,314.3	1,265.8	1,293.5	1,318.3	1,342.5	1,337.1	1,328.5	1,262.8	1,340.1	1,282.7	100.0
Oil	521.3	516.8	526.1	535.2	546.3	539.6	538.4	492.4	519.9	521.7	40.7
Gas	288.2	258.9	268.7	277.5	284.0	283.4	281.5	276.0	300.1	255.2	19.9
Coal	73.0	72.0	71.9	72.0	72.2	68.0	63.4	60.8	65.2	60.2	4.7
Electricity	276.8	271.4	276.1	280.2	283.7	284.8	281.8	272.6	284.9	275.6	21.5
Heat	57.9	54.0	55.3	57.3	57.8	57.0	56.9	55.0	58.6	56.1	4.4
Biomass	97.1	92.6	95.2	96.2	98.6	104.3	106.4	106.0	111.5	113.8	8.9
Electricity generation, by source	328.8	322.8	328.1	331.3	335.4	335.2	330.2	320.7	333.6	324.2	100.0
Oil	5.8	5.6	5.9	5.7	5.4	4.9	4.7	4.3	4.2	5.5	1.7
Gas	53.3	50.0	51.5	60.4	66.8	61.8	65.6	64.3	67.8	64.0	19.8
Coal	87.9	82.6	81.8	75.4	73.5	70.5	56.5	46.7	52.4	56.0	17.3
Nuclear	77.6	77.7	75.7	74.0	73.1	73.3	72.9	65.2	68.5	56.4	17.4
Hydro	58.0	56.9	56.5	57.7	52.0	56.8	55.6	58.6	57.4	50.6	15.6
Biomass	15.6	16.6	17.8	18.2	18.6	19.2	19.9	20.4	21.4	21.1	6.5
Wind	21.3	22.8	27.3	27.7	32.9	34.6	39.6	43.8	42.7	47.2	14.6
Solar	7.5	8.5	9.4	9.8	10.7	11.7	12.7	14.8	16.6	20.7	6.4
Other renewables	1.7	1.9	2.1	2.3	2.4	2.5	2.6	2.7	2.6	2.6	0.8
Total final consumption, by sector	1,314.3	1,265.8	1,293.5	1,318.3	1,342.5	1,337.1	1,328.5	1,262.8	1,340.1	1,282.7	100.0
Industry	323.2	319.5	320.8	322.9	333.0	334.6	327.7	316.7	334.8	310.2	24.2
Transport	340.7	346.3	353.8	363.9	371.0	372.5	375.4	327.4	358.7	368.2	28.7
Residential/Commercial	507.8	457.4	477.9	488.1	490.2	483.6	479.4	472.2	497.5	466.8	36.4
Oil final consumption, by sector	521.3	516.8	526.1	535.2	546.3	539.6	538.4	492.4	519.9	521.7	100.0
Industry	30.0	28.8	30.0	27.4	30.2	31.8	29.9	30.0	29.7	30.3	5.8
Transport	319.7	324.4	331.9	341.8	347.4	347.0	348.5	301.0	330.5	339.5	65.1
Residential/Commercial	60.3	53.2	54.4	54.5	53.9	47.9	48.0	48.1	43.9	43.8	8.4
Natural gas final consumption, by sector	288.2	258.9	268.7	277.5	284.0	283.4	281.5	276.0	300.1	255.2	100.0
Industry	95.0	92.7	91.1	93.0	97.5	96.3	94.9	92.3	98.9	82.7	32.4
Transport	1.6	1.7	1.8	1.8	1.8	1.8	2.0	1.9	2.5	2.2	0.9
Residential/Commercial	172.0	144.5	156.8	163.4	164.3	165.0	163.7	161.5	178.6	154.1	60.4
Refined products consumption	518.6	514.1	523.9	532.9	544.1	537.8	536.9	490.7	518.4	520.1	100.0
Gasoline	87.2	86.5	84.8	85.1	85.2	85.1	86.6	74.0	81.2	85.9	16.5
Diesel	291.9	289.4	298.9	306.2	311.8	308.7	307.9	280.5	297.0	296.1	56.9
Heating Oil	8.9	8.0	8.2	7.0	6.8	6.4	5.8	4.9	4.8	5.5	1.1
Aviation Jet	7.8	8.5	8.8	9.2	9.3	9.5	9.7	5.0	6.7	10.0	1.9
LPG	33.9	34.8	36.0	36.1	36.5	37.4	37.8	34.4	34.5	33.9	6.5
Imports	1,341.1	1,307.2	1,378.2	1,404.5	1,439.8	1,424.4	1,446.8	1,282.6	1,340.2	1,398.4	100.0
Oil	972.9	962.8	1,023.5	1,032.2	1,055.2	1,040.0	1,031.1	901.3	931.9	987.8	70.6
Gas	368.2	344.4	354.7	372.3	384.6	384.4	415.8	381.3	408.3	410.6	29.4
Gasoline	29.2	28.7	31.3	32.3	31.8	28.9	30.2	26.8	29.0	30.2	2.2
Diesel	145.9	141.4	154.1	164.0	162.4	155.3	156.8	144.7	146.6	148.0	10.6
Heating Oil	67.2	67.9	70.6	68.4	52.0	51.3	46.7	49.3	56.3	54.9	3.9
Aviation Jet	33.9	33.0	34.5	37.0	38.3	40.9	41.9	25.3	25.5	35.6	2.5
LPG	23.4	25.6	27.6	28.3	27.8	29.0	28.5	26.2	26.6	28.2	2.0
Exports	626.8	617.5	662.1	670.0	663.9	644.5	625.5	587.7	612.4	632.9	100.0
Oil	462.8	459.0	501.4	512.5	521.1	508.7	488.7	458.9	483.5	477.5	75.4
Gas	164.0	158.5	160.6	157.6	142.8	135.8	136.8	128.8	128.9	155.4	24.6
Gasoline	79.7	79.1	91.0	91.8	94.2	93.4	93.6	78.9	87.4	89.3	14.1
Diesel	104.2	102.2	109.9	115.4	118.2	106.1	104.8	100.7	107.2	102.5	16.2
Heating Oil	73.4	75.4	83.8	80.2	63.0	58.4	50.1	52.9	61.6	59.3	9.4
Aviation Jet	17.9	14.8	15.1	16.3	17.5	19.6	20.1	14.0	14.1	16.8	2.7
LPG	8.5	8.0	9.7	10.1	10.2	9.6	9.5	8.5	9.6	9.8	1.5
CO₂ Emissions (Million tons CO₂)	3,946.2	3,777.5	3,833.3	3,850.3	3,903.9	3,821.5	3,656.4	3,349.3	3,589.8	3,533.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	180.6	169.3	167.2	164.3	161.4	154.5	145.2	140.6	142.0	134.6	-
Final energy intensity (toe/million \$15ppp)	55.2	51.9	51.7	51.6	50.8	49.6	48.4	48.5	48.6	45.0	-
Total energy intensity (toe/million \$15ppp)	84.3	79.7	78.7	77.9	76.9	74.6	72.1	71.6	70.6	65.4	-

*Heat is included

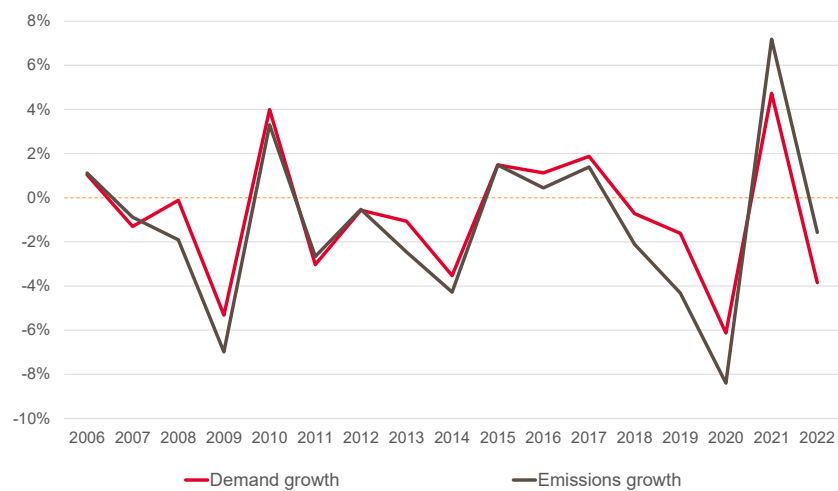
Primary energy demand mix



Electricity generation by source



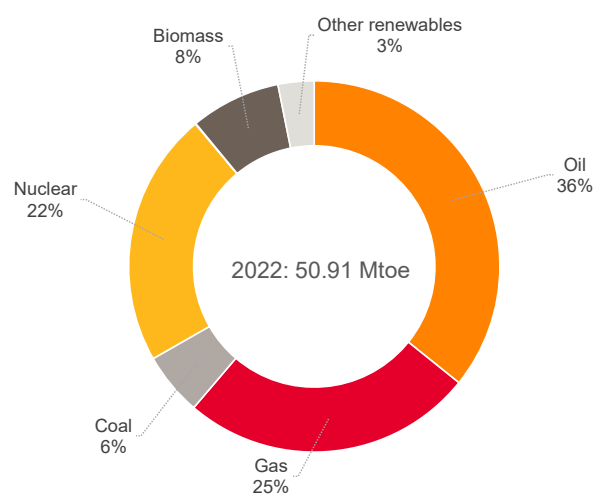
Primary energy demand and CO₂ emissions growth



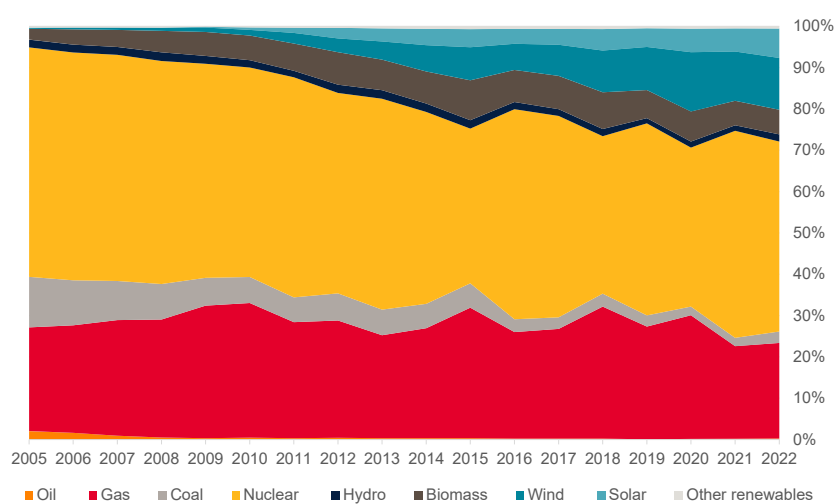
Belgium (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	55.8	52.7	52.5	55.5	55.3	53.3	54.9	50.6	55.8	50.9	100.0
Oil	21.3	22.0	22.0	21.4	21.2	21.2	20.3	18.5	19.8	18.4	36.0
Gas	14.5	12.6	13.9	14.2	14.5	15.0	15.2	15.1	15.2	13.1	25.7
Coal	3.5	3.4	3.4	3.1	3.1	3.0	3.0	2.3	2.6	2.8	5.5
Nuclear	11.1	8.8	6.8	11.3	11.0	7.5	11.3	9.0	13.1	11.4	22.4
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.6	3.4	3.6	3.8	3.8	3.8	3.7	3.8	4.0	4.0	7.9
Other renewables	0.5	0.6	0.7	0.7	0.8	1.0	1.2	1.5	1.5	1.6	3.2
Electricity balance of trade*	1.1	1.8	2.0	0.8	0.8	1.8	0.1	0.2	-0.4	-0.4	-0.8
Total final consumption, by source	42.8	40.9	41.9	42.3	41.8	42.3	41.1	38.9	41.6	38.2	100.0
Oil	20.3	20.2	20.6	20.2	19.5	19.9	18.9	17.5	18.7	17.7	46.4
Gas	10.7	9.2	9.9	10.2	10.5	10.5	10.4	10.2	11.1	9.2	24.0
Coal	2.2	2.2	2.2	2.3	2.3	2.3	2.3	1.8	2.0	1.8	4.6
Electricity	7.1	7.0	7.0	7.1	7.1	7.1	7.0	6.8	7.0	6.6	17.2
Heat	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	1.3
Biomass	2.0	1.8	1.8	2.0	2.0	2.0	2.0	2.1	2.4	2.5	6.5
Electricity generation, by source	7.2	6.2	6.0	7.4	7.4	6.5	8.1	7.7	8.6	8.2	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gas	1.8	1.7	1.9	1.9	2.0	2.1	2.2	2.3	1.9	1.9	23.1
Coal	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.8
Nuclear	3.7	2.9	2.2	3.7	3.6	2.5	3.7	3.0	4.3	3.8	46.0
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7
Biomass	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	5.9
Wind	0.3	0.4	0.5	0.5	0.6	0.7	0.8	1.1	1.0	1.0	12.5
Solar	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	7.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Total final consumption, by sector	42.8	40.9	41.9	42.3	41.8	42.3	41.1	38.9	41.6	38.2	100.0
Industry	10.9	10.6	10.6	10.8	10.9	11.1	10.9	10.2	10.8	9.7	25.4
Transport	8.4	8.6	9.0	9.0	8.9	8.9	8.9	7.8	8.6	8.6	22.5
Residential/Commercial	14.0	11.7	12.8	12.8	12.7	12.6	12.3	12.1	12.9	11.6	30.4
Oil final consumption, by sector	20.3	20.2	20.6	20.2	19.5	19.9	18.9	17.5	18.7	17.7	100.0
Industry	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.6
Transport	7.9	8.0	8.6	8.5	8.3	8.3	8.2	6.9	7.6	7.5	42.6
Residential/Commercial	3.8	3.0	3.6	3.3	3.3	3.2	3.0	3.2	3.0	2.9	16.5
Natural gas final consumption, by sector	10.7	9.2	9.9	10.2	10.5	10.5	10.4	10.2	11.1	9.2	100.0
Industry	3.8	3.7	3.7	3.8	4.0	4.0	3.9	3.9	4.1	3.4	36.6
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6
Residential/Commercial	5.7	4.5	4.9	5.2	5.1	5.1	5.1	4.8	5.6	4.6	50.1
Refined products consumption	20.3	20.2	20.6	20.2	19.5	19.9	18.9	17.5	18.7	17.7	100.0
Gasoline	1.2	1.3	1.4	1.5	1.5	1.7	1.9	1.5	1.9	2.1	11.8
Diesel	10.9	10.1	11.0	10.5	10.3	10.1	9.6	8.8	8.9	8.5	48.1
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LPG	1.7	2.0	2.0	1.7	1.7	2.5	2.6	2.5	2.6	2.7	15.5
Imports	72.2	72.3	75.2	73.7	78.1	81.4	82.4	71.7	76.2	71.5	100.0
Oil	56.9	58.8	59.9	58.8	63.5	65.2	63.1	53.8	58.5	56.3	78.7
Gas	15.3	13.5	15.3	14.9	14.6	16.2	19.2	17.9	17.7	15.2	21.3
Gasoline	0.7	0.9	1.3	1.5	0.9	1.6	1.3	0.7	0.9	1.0	1.4
Diesel	12.3	10.0	10.9	11.3	10.8	10.0	8.3	8.4	7.0	7.9	11.1
Heating Oil	5.0	3.5	3.7	3.9	4.8	5.9	5.5	4.2	5.5	4.5	6.3
Aviation Jet	1.6	1.0	0.8	0.5	1.5	1.7	1.5	1.0	1.1	0.9	1.3
LPG	1.9	2.0	2.1	1.8	1.8	2.3	2.3	2.4	2.5	3.1	4.3
Exports	28.3	30.5	30.9	30.2	34.3	33.9	36.2	30.0	33.3	30.7	100.0
Oil	27.5	29.8	29.5	29.6	34.1	32.8	32.5	27.1	30.8	28.7	93.3
Gas	0.8	0.7	1.4	0.6	0.3	1.1	3.7	2.9	2.5	2.1	6.7
Gasoline	4.1	4.4	5.4	5.4	4.9	4.5	5.0	3.4	3.8	4.5	14.7
Diesel	11.2	12.0	11.0	11.9	12.5	11.8	11.2	9.4	11.3	10.2	33.3
Heating Oil	4.6	4.3	4.5	4.0	6.0	5.5	4.1	3.2	3.0	2.4	7.8
Aviation Jet	1.7	1.4	0.9	0.8	1.8	1.6	2.2	1.1	0.6	0.7	2.4
LPG	0.8	0.7	0.8	0.9	0.9	0.7	0.8	0.9	1.0	1.0	3.2
CO₂ Emissions (Million tons CO₂)	99.3	92.3	97.0	95.8	95.1	96.0	95.3	87.4	91.5	86.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	197.6	180.8	186.3	181.6	177.5	175.8	171.0	166.2	163.8	150.5	-
Final energy intensity (toe/million \$15ppp)	68.0	61.9	63.5	63.4	62.1	61.3	59.3	58.9	59.4	53.2	-
Total energy intensity (toe/million \$15ppp)	111.0	103.2	100.9	105.3	103.2	97.6	98.5	96.2	99.9	88.4	-

*Heat is included

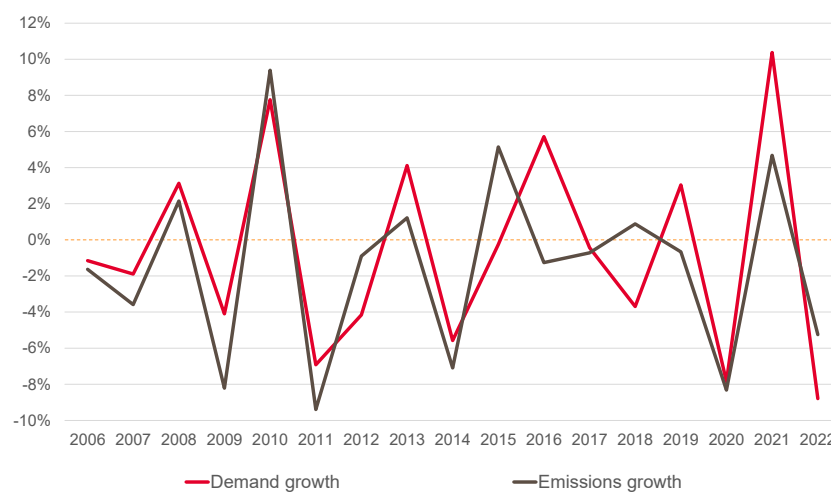
Primary energy demand mix



Electricity generation by source



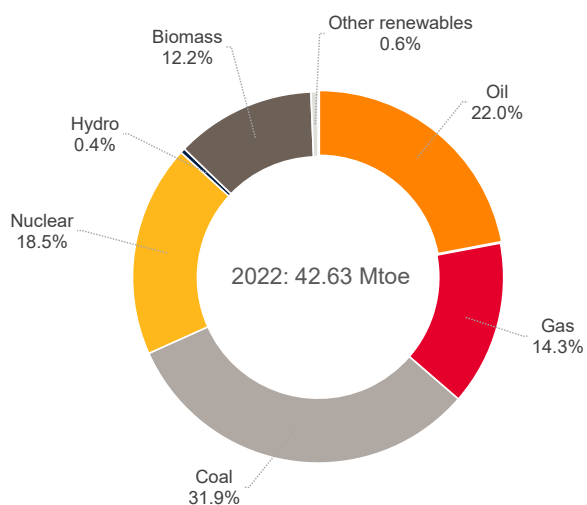
Primary energy demand and CO₂ emissions growth



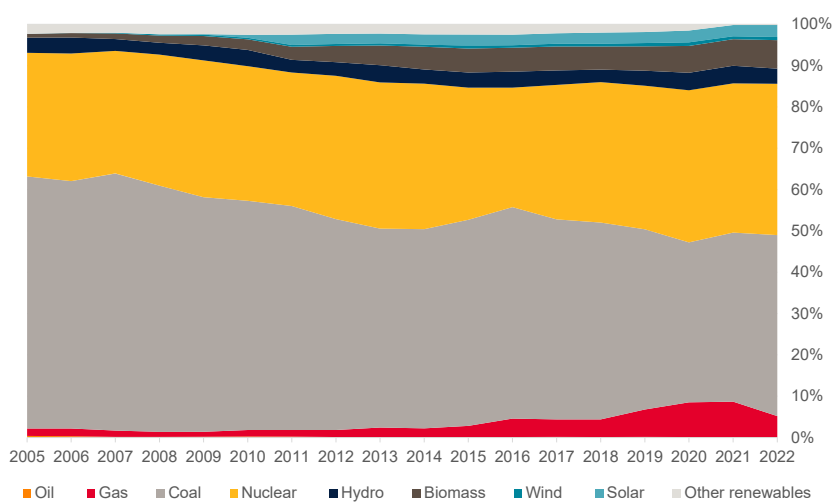
Czech Republic (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	43.1	41.8	41.9	41.3	43.2	43.3	42.6	40.2	42.6	42.6	100.0
Oil	8.3	8.8	8.6	8.0	9.3	9.4	9.5	8.5	9.4	9.6	22.6
Gas	6.9	6.2	6.5	7.0	7.2	6.8	7.2	7.3	7.8	6.3	14.7
Coal	17.0	15.9	16.3	16.4	15.7	15.7	14.2	12.2	12.8	14.0	32.8
Nuclear	8.0	7.9	7.0	6.3	7.4	7.8	7.9	7.8	8.0	8.1	19.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4
Biomass	3.8	4.0	4.1	4.2	4.3	4.3	4.6	4.8	5.1	5.3	12.5
Other renewables	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.6
Electricity balance of trade*	-1.4	-1.4	-1.1	-0.9	-1.1	-1.2	-1.1	-0.8	-0.9	-1.1	-2.6
Total final consumption, by source	26.6	26.2	26.4	26.3	28.1	27.9	27.8	26.7	28.8	28.5	100.0
Oil	8.0	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.3	9.5	33.4
Gas	5.4	4.9	5.1	5.4	5.6	5.2	5.3	5.2	5.6	4.9	17.3
Coal	3.5	3.3	3.2	3.2	3.3	3.3	2.9	2.8	3.0	3.2	11.1
Electricity	4.6	4.6	4.7	4.8	4.9	5.0	5.0	4.9	5.2	5.0	17.5
Heat	2.3	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.2	2.1	7.4
Biomass	2.7	2.9	2.9	3.0	3.0	3.1	3.3	3.4	3.7	3.8	13.4
Electricity generation, by source	7.5	7.4	7.2	7.2	7.5	7.6	7.5	7.0	7.3	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	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.6	0.6	0.4	5.1
Coal	3.6	3.6	3.6	3.7	3.6	3.6	3.3	2.7	3.0	3.2	43.8
Nuclear	2.6	2.6	2.3	2.1	2.4	2.6	2.6	2.6	2.6	2.7	36.6
Hydro	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	3.6
Biomass	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	6.9
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.9
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2
Total final consumption, by sector	26.6	26.2	26.4	26.3	28.1	27.9	27.8	26.7	28.8	28.5	100.0
Industry	7.4	7.3	7.4	7.4	7.6	7.7	7.5	7.4	7.9	7.7	27.2
Transport	5.7	5.9	6.2	6.4	6.6	6.6	6.8	6.3	6.9	7.0	24.6
Residential/Commercial	10.3	9.4	9.7	10.1	10.3	10.0	10.0	10.0	10.6	10.2	36.0
Oil final consumption, by sector	8.0	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.3	9.5	100.0
Industry	0.2	0.3	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2	2.3
Transport	5.3	5.4	5.7	5.9	6.1	6.1	6.2	5.7	6.2	6.4	67.8
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Natural gas final consumption, by sector	5.4	4.9	5.1	5.4	5.6	5.2	5.3	5.2	5.6	4.9	100.0
Industry	2.1	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.2	2.0	40.1
Transport	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	1.5
Residential/Commercial	3.2	2.8	2.9	3.2	3.3	3.0	3.0	3.0	3.1	2.8	56.0
Refined products consumption	8.0	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.3	9.5	100.0
Gasoline	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.6	1.7	17.4
Diesel	4.0	4.2	4.4	4.6	4.7	4.8	4.9	4.6	4.9	5.0	52.7
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
LPG	0.3	0.4	0.3	0.3	0.5	0.5	0.5	0.4	0.4	0.4	4.5
Imports	17.0	16.8	17.3	17.0	19.1	18.6	19.7	16.8	18.6	18.7	100.0
Oil	10.0	10.9	11.2	10.3	11.8	12.0	11.9	10.5	11.4	11.6	61.9
Gas	7.0	6.0	6.2	6.7	7.3	6.6	7.9	6.3	7.2	7.1	38.1
Gasoline	0.6	0.5	0.5	0.8	0.6	0.7	0.6	0.6	0.6	0.6	3.3
Diesel	1.7	1.8	2.2	2.9	2.1	2.4	2.2	2.6	2.7	2.4	12.7
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	0.1	0.1	0.3	0.2	0.3	0.3	0.1	0.1	0.2	0.9
LPG	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0
Exports	1.8	2.0	2.5	2.2	2.4	2.2	2.2	1.8	2.2	1.8	100.0
Oil	1.8	2.0	2.5	2.2	2.4	2.2	2.2	1.8	2.2	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	0.3	0.5	0.6	0.4	0.6	0.6	0.6	0.4	0.6	0.5	27.5
Diesel	0.7	0.9	1.1	0.8	0.9	0.8	0.8	0.8	1.0	0.7	41.3
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	3.0
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	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	6.6
CO₂ Emissions (Million tons CO₂)	102.5	99.9	100.8	102.2	103.8	102.6	97.6	89.1	93.8	96.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	309.1	294.6	281.9	278.7	269.3	257.9	238.1	230.7	235.2	236.9	-
Final energy intensity (toe/million \$15ppp)	72.2	68.6	66.9	66.9	65.3	62.8	60.7	63.1	65.3	62.7	-
Total energy intensity (toe/million \$15ppp)	129.9	123.2	117.1	112.7	112.0	108.7	104.0	104.2	106.8	104.3	-

*Heat is included

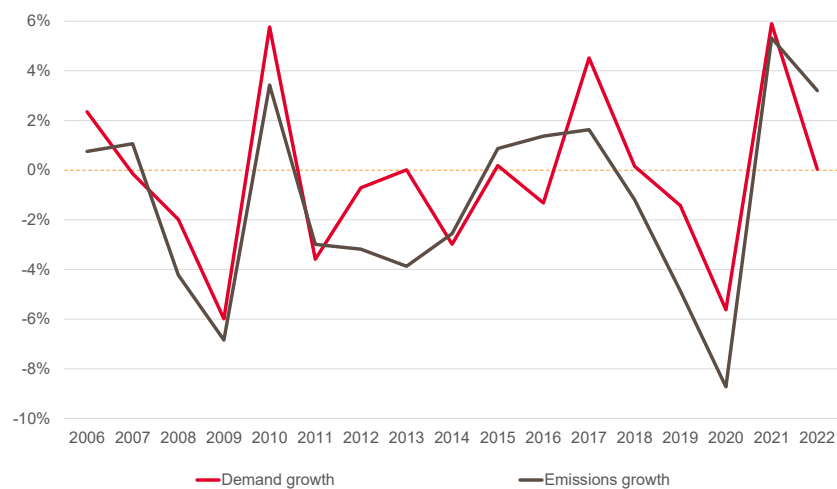
Primary energy demand mix



Electricity generation by source



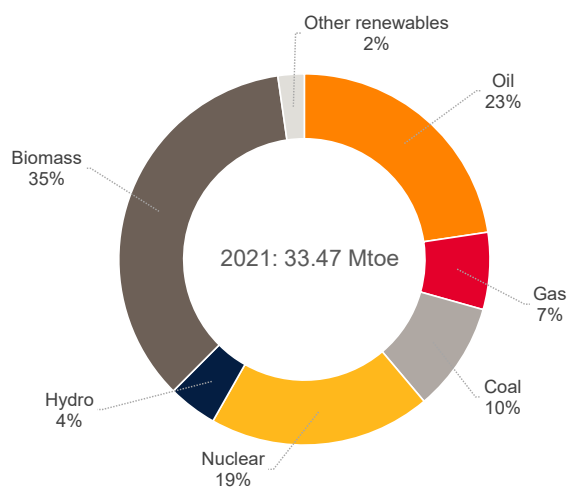
Primary energy demand and CO₂ emissions growth



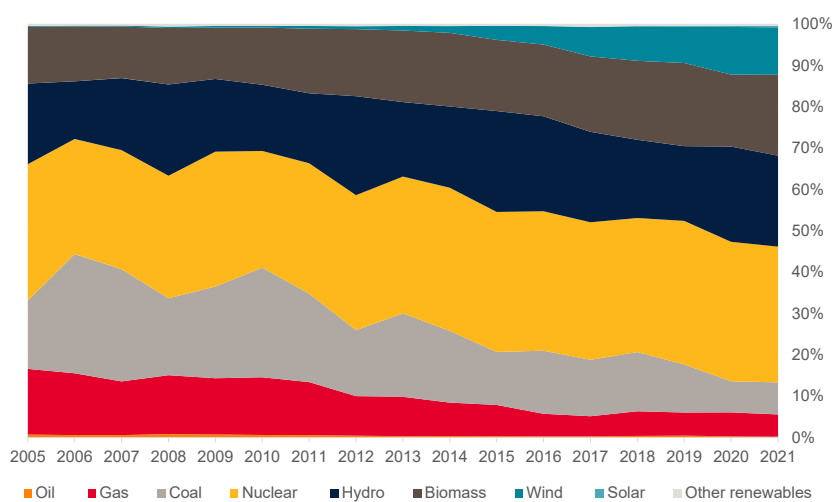
Finland (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2021 (%)
Total primary energy demand, by source	33.6	34.3	32.7	33.9	33.8	34.3	33.6	32.0	33.5	n.d.	100.0
Oil	7.9	9.0	8.0	8.8	8.4	8.3	7.9	7.8	7.2	n.d.	21.5
Gas	2.9	2.5	2.2	2.1	1.9	2.2	2.1	2.1	2.1	n.d.	6.4
Coal	5.1	4.5	4.1	4.3	4.1	4.2	3.5	2.9	3.0	n.d.	9.0
Nuclear	6.2	6.1	6.1	6.0	5.9	5.9	6.2	6.1	6.1	n.d.	18.4
Hydro	1.1	1.2	1.4	1.4	1.3	1.1	1.1	1.4	1.4	n.d.	4.1
Biomass	8.9	9.3	9.1	9.3	9.8	10.1	10.3	9.6	11.2	n.d.	33.4
Other renewables	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.7	0.7	n.d.	2.2
Electricity balance of trade*	1.5	1.7	1.5	1.8	1.9	1.9	1.9	1.5	1.7	n.d.	5.1
Total final consumption, by source	25.5	25.4	24.8	25.9	26.0	26.3	26.0	24.6	26.0	n.d.	100.0
Oil	7.9	7.5	7.3	7.8	7.5	7.5	7.3	7.1	6.7	n.d.	25.6
Gas	0.7	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.8	n.d.	3.1
Coal	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.8	0.9	n.d.	3.5
Electricity	6.9	6.8	6.8	7.0	7.0	7.1	7.0	6.6	7.1	n.d.	27.2
Heat	4.1	4.0	3.8	4.1	4.0	4.0	3.9	3.6	4.1	n.d.	15.9
Biomass	5.0	5.5	5.4	5.5	5.9	6.1	6.2	5.8	6.4	n.d.	24.7
Electricity generation, by source	6.1	5.9	5.9	5.9	5.8	6.0	5.9	5.9	6.2	n.d.	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.2
Gas	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.3	n.d.	5.3
Coal	1.2	1.0	0.8	0.9	0.8	0.9	0.7	0.4	0.5	n.d.	7.8
Nuclear	2.0	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.0	n.d.	32.9
Hydro	1.1	1.2	1.4	1.4	1.3	1.1	1.1	1.4	1.4	n.d.	22.0
Biomass	1.1	1.0	1.0	1.0	1.1	1.2	1.2	1.0	1.2	n.d.	19.6
Wind	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.7	0.7	n.d.	11.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.4
Total final consumption, by sector	25.5	25.4	24.8	25.9	26.0	26.3	26.0	24.6	26.0	n.d.	100.0
Industry	10.6	10.6	10.5	10.9	11.1	11.5	11.3	10.6	11.2	n.d.	43.1
Transport	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.0	4.1	n.d.	16.0
Residential/Commercial	8.0	7.9	7.6	8.2	8.1	8.2	8.0	7.5	8.3	n.d.	32.0
Oil final consumption, by sector	7.9	7.5	7.3	7.8	7.5	7.5	7.3	7.1	6.7	n.d.	100.0
Industry	1.2	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.9	n.d.	14.1
Transport	4.0	3.7	3.7	4.1	3.8	3.9	3.8	3.5	3.3	n.d.	50.1
Residential/Commercial	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	n.d.	7.6
Natural gas final consumption, by sector	0.7	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.8	n.d.	100.0
Industry	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	n.d.	84.5
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	2.5
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	n.d.	7.0
Refined products consumption	7.9	7.5	7.3	7.8	7.5	7.5	7.3	7.1	6.7	n.d.	100.0
Gasoline	1.5	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.2	n.d.	18.6
Diesel	4.0	3.7	3.6	4.0	3.9	3.9	3.8	3.7	3.4	n.d.	51.5
Heating Oil	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	n.d.	2.6
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	0.9
LPG	1.1	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	n.d.	16.7
Imports	21.4	20.6	18.8	20.5	19.9	20.2	20.2	19.4	15.9	n.d.	100.0
Oil	18.5	18.0	16.5	18.5	18.0	18.0	18.1	17.2	13.8	n.d.	86.7
Gas	2.9	2.5	2.2	2.1	1.9	2.2	2.1	2.1	2.1	n.d.	13.3
Gasoline	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	n.d.	3.9
Diesel	3.2	2.2	1.8	2.0	1.8	1.6	1.6	2.0	1.6	n.d.	9.9
Heating Oil	0.8	1.2	1.1	1.2	0.9	0.4	0.6	0.4	0.6	n.d.	3.9
Aviation Jet	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.1	n.d.	0.5
LPG	0.8	0.9	0.9	0.8	0.8	0.9	0.9	0.9	1.0	n.d.	6.1
Exports	9.2	8.7	7.0	9.2	9.1	9.0	9.7	8.9	6.6	n.d.	100.0
Oil	9.2	8.7	7.0	9.2	9.1	9.0	9.7	8.9	6.6	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	3.2	3.2	2.5	3.1	3.2	3.1	3.5	3.1	2.5	n.d.	38.6
Diesel	4.1	3.8	3.0	3.9	3.8	3.7	3.9	3.5	2.3	n.d.	35.6
Heating Oil	1.1	0.8	0.8	1.3	1.1	1.1	1.1	1.1	0.9	n.d.	14.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.1
CO₂ Emissions (Million tons CO₂)	51.7	47.6	44.2	47.6	45.1	46.3	43.0	38.3	38.4	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	222.4	205.7	189.9	199.0	182.5	185.2	169.9	155.1	150.2	n.d.	-
Final energy intensity (toe/million \$15ppp)	102.8	102.7	100.3	102.0	99.3	99.5	97.1	93.1	96.1	n.d.	-
Total energy intensity (toe/million \$15ppp)	144.7	148.2	140.3	141.7	136.7	137.2	132.7	129.4	130.9	n.d.	-

*Heat is included

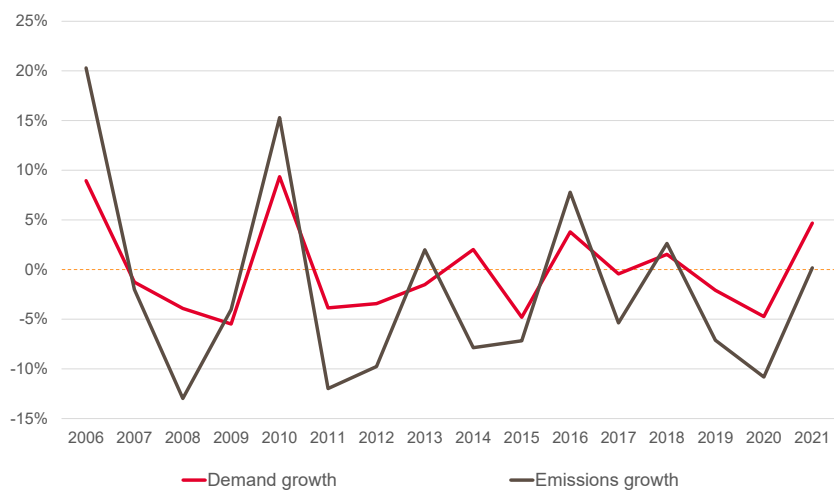
Primary energy demand mix



Electricity generation by source



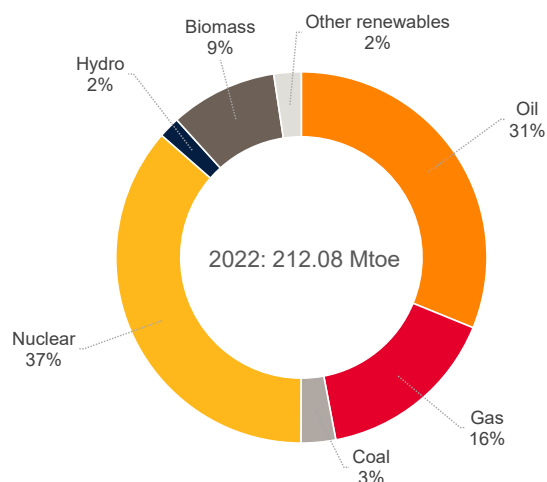
Primary energy demand and CO₂ emissions growth



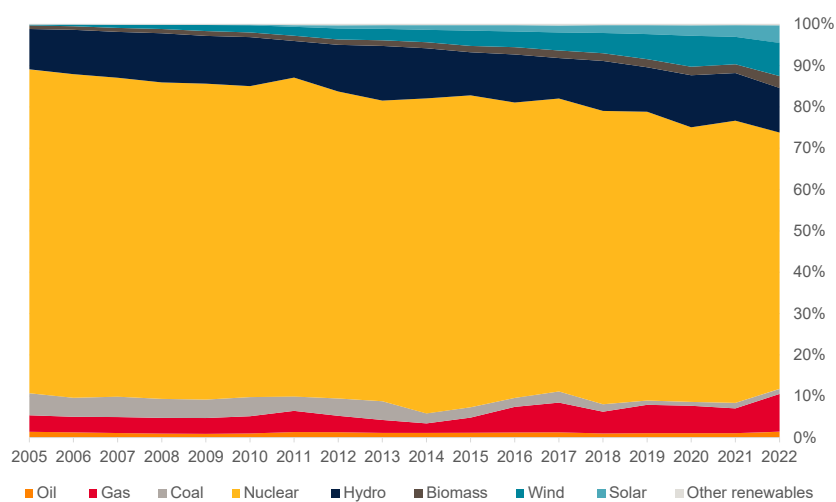
France (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	258.5	248.5	252.4	247.6	247.4	245.8	242.3	217.8	233.9	212.1	100.0
Oil	75.3	74.7	75.4	72.9	73.4	70.5	71.0	62.0	66.0	65.5	30.9
Gas	38.8	32.6	35.0	38.3	38.5	36.8	37.5	34.9	37.0	33.3	15.7
Coal	13.1	9.7	9.3	9.1	9.9	9.1	7.3	5.3	7.1	6.3	3.0
Nuclear	110.4	113.7	114.0	105.1	103.8	107.6	104.0	92.2	98.9	76.5	36.1
Hydro	6.2	5.5	4.8	5.2	4.3	5.6	4.9	5.4	5.1	3.9	1.8
Biomass	16.7	15.6	16.4	17.5	17.5	17.6	17.8	16.7	18.5	19.6	9.2
Other renewables	1.8	2.0	2.5	2.6	2.9	3.4	4.0	4.6	4.5	5.0	2.4
Electricity balance of trade*	-3.7	-5.3	-5.0	-3.1	-2.9	-4.8	-4.4	-3.3	-3.3	2.0	0.9
Total final consumption, by source	163.5	153.4	155.4	157.2	156.9	153.3	151.7	139.1	151.1	142.7	100.0
Oil	70.1	69.0	69.0	67.6	68.3	65.8	65.5	58.5	63.2	61.7	43.2
Gas	34.3	29.0	29.8	31.2	30.4	30.1	29.4	27.4	30.3	24.7	17.3
Coal	4.6	4.7	4.4	4.3	4.5	3.9	3.4	2.8	3.5	3.3	2.3
Electricity	38.7	36.5	37.4	38.0	37.7	37.5	37.1	35.3	37.2	35.7	25.0
Heat	3.4	3.0	3.3	3.7	3.8	3.8	3.9	3.8	4.4	4.5	3.1
Biomass	12.5	11.2	11.6	12.4	12.2	12.2	12.3	11.3	12.5	12.9	9.1
Electricity generation, by source	50.1	49.2	49.8	48.5	48.3	50.0	49.1	45.8	47.8	40.7	100.0
Oil	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	1.4
Gas	1.6	1.1	1.8	3.0	3.5	2.6	3.4	3.0	2.9	3.7	9.2
Coal	2.3	1.2	1.3	1.1	1.3	0.9	0.5	0.4	0.6	0.5	1.2
Nuclear	36.4	37.5	37.6	34.7	34.3	35.5	34.3	30.4	32.6	25.2	62.1
Hydro	6.6	6.0	5.2	5.6	4.7	6.1	5.3	5.8	5.5	4.4	10.8
Biomass	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.2	2.9
Wind	1.4	1.5	1.8	1.8	2.1	2.5	3.0	3.4	3.2	3.3	8.0
Solar	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.7	4.3
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	163.5	153.4	155.4	157.2	156.9	153.3	151.7	139.1	151.1	142.7	100.0
Industry	32.3	31.1	30.5	31.1	30.3	30.3	29.4	27.2	29.4	26.5	18.6
Transport	45.2	45.5	45.9	46.0	46.3	45.4	45.5	38.4	43.2	44.6	31.2
Residential/Commercial	67.6	57.8	60.5	62.2	61.7	59.8	58.9	56.2	60.6	56.1	39.3
Oil final consumption, by sector	70.1	69.0	69.0	67.6	68.3	65.8	65.5	58.5	63.2	61.7	100.0
Industry	2.9	2.8	2.8	2.7	2.4	2.5	2.5	2.4	2.5	2.2	3.6
Transport	41.6	41.6	41.9	42.0	42.2	41.3	41.2	34.8	39.2	40.5	65.7
Residential/Commercial	9.6	8.1	8.3	7.7	7.8	7.1	6.7	6.6	6.3	5.9	9.5
Natural gas final consumption, by sector	34.3	29.0	29.8	31.2	30.4	30.1	29.4	27.4	30.3	24.7	100.0
Industry	12.1	11.3	10.9	11.2	10.5	11.0	10.5	9.9	10.5	8.6	34.8
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.9
Residential/Commercial	20.9	16.4	17.5	18.6	18.4	17.6	17.4	16.0	18.2	14.8	59.9
Refined products consumption	70.1	69.0	69.0	67.6	68.3	65.8	65.5	58.5	63.2	61.7	100.0
Gasoline	7.0	7.0	7.1	7.2	7.5	7.7	8.2	7.0	8.3	9.2	15.0
Diesel	46.0	44.6	45.3	44.5	44.4	42.5	41.3	36.8	38.9	37.9	61.4
Heating Oil	0.7	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.4	0.5	0.8
Aviation Jet	1.9	1.9	1.8	1.7	1.8	1.9	1.9	1.3	1.6	2.3	3.7
LPG	4.2	4.5	4.4	4.3	4.2	4.2	4.6	3.8	3.9	3.3	5.4
Imports	144.1	138.1	140.7	138.6	142.1	139.0	142.7	117.9	121.1	132.7	100.0
Oil	101.6	100.3	103.2	99.2	100.8	97.2	95.3	77.6	80.7	83.5	62.9
Gas	42.5	37.8	37.5	39.3	41.2	41.8	47.4	40.3	40.4	49.2	37.1
Gasoline	0.4	0.5	0.7	1.3	1.5	1.4	1.6	1.4	2.7	3.1	2.3
Diesel	24.5	24.0	25.2	22.8	22.3	22.8	24.8	24.9	25.1	22.3	16.8
Heating Oil	5.4	5.4	3.6	4.0	3.4	3.3	2.8	1.9	1.5	1.6	1.2
Aviation Jet	4.4	4.5	4.8	4.7	4.5	5.9	6.2	4.1	5.1	5.7	4.3
LPG	3.6	4.1	3.9	3.8	3.6	3.5	3.7	3.3	3.6	3.5	2.6
Exports	23.7	23.3	24.4	22.3	24.2	23.5	25.7	20.2	17.5	26.0	100.0
Oil	19.2	19.4	21.4	20.9	20.6	20.3	17.5	12.9	12.7	13.4	51.5
Gas	4.5	4.0	3.0	1.4	3.5	3.2	8.2	7.3	4.8	12.6	48.5
Gasoline	3.7	4.0	4.3	4.8	4.6	3.3	2.8	2.3	2.2	1.9	7.3
Diesel	2.0	1.8	2.8	2.1	2.6	2.2	2.6	1.5	1.5	1.3	4.9
Heating Oil	5.4	5.7	6.3	5.6	4.6	4.7	3.7	2.5	2.6	3.4	13.2
Aviation Jet	1.0	1.1	1.2	1.0	1.2	2.0	1.8	1.5	1.7	1.3	5.0
LPG	1.4	1.2	1.4	1.3	1.3	1.2	1.0	1.0	1.0	1.2	4.5
CO₂ Emissions (Million tons CO₂)	344.4	312.6	317.7	319.2	325.9	316.5	308.7	273.7	302.2	289.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	129.3	116.3	116.9	116.1	115.9	110.5	105.8	101.9	105.1	98.0	-
Final energy intensity (toe/million \$15ppp)	56.2	51.7	52.0	52.3	50.8	48.9	47.4	47.1	47.9	44.6	-
Total energy intensity (toe/million \$15ppp)	97.1	92.4	92.8	90.1	88.0	85.8	83.1	81.0	81.4	71.9	-

*Heat is included

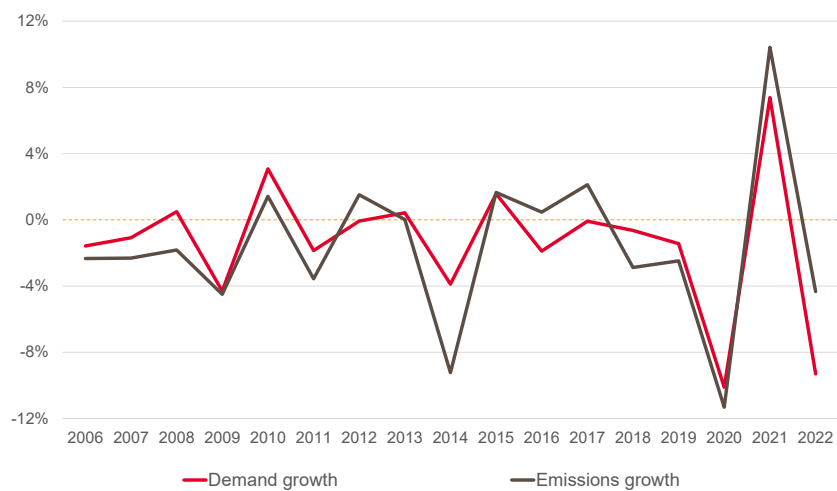
Primary energy demand mix



Electricity generation by source



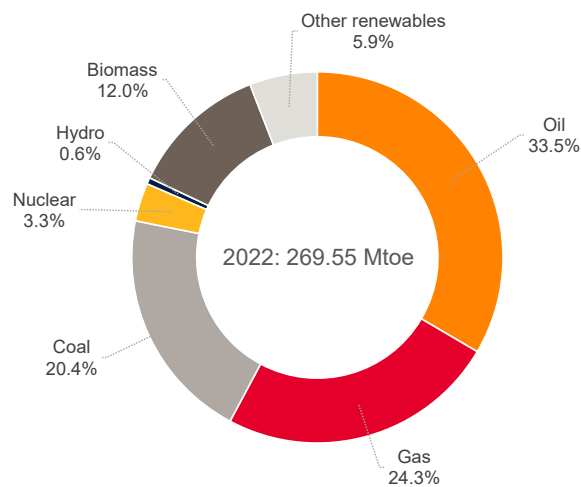
Primary energy demand and CO₂ emissions growth



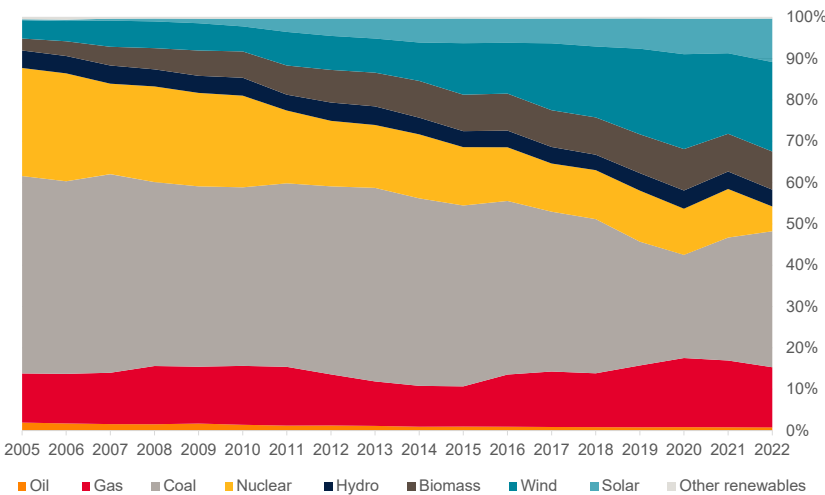
Germany (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	321.7	307.7	309.1	310.4	311.4	303.6	296.9	278.8	288.2	269.6	100.0
Oil	103.3	101.2	101.4	101.7	103.2	98.2	99.8	94.5	91.3	90.6	33.6
Gas	73.1	63.4	65.2	70.3	75.3	73.5	75.6	74.6	78.1	65.8	24.4
Coal	81.6	79.6	79.4	77.2	71.4	69.6	56.4	44.6	53.2	55.1	20.5
Nuclear	25.4	25.3	23.9	22.1	19.9	19.8	19.6	16.8	18.0	9.0	3.4
Hydro	2.0	1.7	1.6	1.8	1.7	1.5	1.7	1.6	1.7	1.5	0.6
Biomass	31.1	30.3	30.5	30.5	30.8	30.8	30.9	31.5	32.2	32.5	12.1
Other renewables	7.2	8.1	10.3	10.1	12.5	13.2	14.6	15.6	14.1	16.0	5.9
Electricity balance of trade*	-1.9	-1.9	-3.1	-3.3	-3.5	-3.0	-1.7	-0.4	-0.4	-1.1	-0.4
Total final consumption, by source	234.9	224.8	226.7	230.3	233.2	227.7	227.2	219.4	229.8	216.5	100.0
Oil	94.2	92.9	91.6	92.0	93.5	88.7	90.4	85.8	87.9	87.4	40.4
Gas	55.0	49.7	51.4	54.7	55.8	55.8	55.3	54.5	59.2	51.1	23.6
Coal	13.2	13.2	14.1	13.7	13.7	13.3	12.4	11.6	12.4	10.9	5.0
Electricity	44.9	44.0	44.3	44.5	44.6	43.8	42.7	41.5	42.5	40.7	18.8
Heat	11.0	9.9	10.3	10.5	10.6	10.4	10.4	9.8	10.8	9.1	4.2
Biomass	16.6	15.0	15.0	14.8	15.1	15.7	15.9	16.3	16.9	17.3	8.0
Electricity generation, by source	54.9	54.0	55.8	55.9	56.2	55.1	52.2	49.5	50.6	49.8	100.0
Oil	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.8
Gas	5.9	5.4	5.4	7.1	7.5	7.2	7.8	8.3	8.2	7.2	14.5
Coal	25.7	24.5	24.4	23.5	21.7	20.6	15.6	12.4	15.1	16.4	32.9
Nuclear	8.4	8.4	7.9	7.3	6.6	6.5	6.5	5.5	5.9	3.0	6.0
Hydro	2.5	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.1	2.0	4.1
Biomass	4.5	4.8	4.9	5.0	5.0	5.0	4.9	5.0	4.6	4.6	9.3
Wind	4.5	5.0	6.9	6.9	9.1	9.5	10.8	11.4	9.9	10.8	21.7
Solar	2.7	3.1	3.3	3.3	3.4	3.7	3.8	4.3	4.2	5.2	10.5
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3
Total final consumption, by sector	234.9	224.8	226.7	230.3	233.2	227.7	227.2	219.4	229.8	216.5	100.0
Industry	62.5	62.2	62.6	63.1	63.9	63.7	61.9	60.0	62.1	54.0	24.9
Transport	54.4	55.7	55.4	56.7	57.4	55.4	56.0	51.2	52.5	53.3	24.6
Residential/Commercial	95.0	83.2	86.0	87.5	87.6	83.4	83.9	83.2	85.5	81.7	37.8
Oil final consumption, by sector	94.2	92.9	91.6	92.0	93.5	88.7	90.4	85.8	87.9	87.4	100.0
Industry	3.0	2.8	3.0	2.4	2.1	3.3	3.2	3.4	3.2	2.9	3.3
Transport	50.4	51.5	51.5	52.8	53.4	51.5	52.1	46.5	48.3	49.1	56.2
Residential/Commercial	21.9	19.4	18.6	18.4	18.2	13.3	15.0	15.6	11.5	12.1	13.9
Natural gas final consumption, by sector	55.0	49.7	51.4	54.7	55.8	55.8	55.3	54.5	59.2	51.1	100.0
Industry	19.6	19.2	19.2	20.0	21.2	19.6	19.5	19.6	20.1	16.7	32.6
Transport	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.4
Residential/Commercial	32.4	27.4	29.4	31.6	31.6	33.0	31.9	31.6	35.8	31.6	61.9
Refined products consumption	94.2	92.9	91.6	92.0	93.5	88.7	90.4	85.8	87.9	87.4	100.0
Gasoline	17.9	18.0	17.2	17.2	17.5	16.8	17.0	15.3	15.4	15.6	17.9
Diesel	53.3	51.6	51.5	52.6	53.2	50.0	52.1	49.7	47.7	48.5	55.4
Heating Oil	2.5	2.5	2.7	1.5	1.5	1.4	1.3	1.2	1.0	0.9	1.0
Aviation Jet	0.7	0.7	0.7	0.8	0.7	0.6	0.7	0.3	0.2	0.4	0.4
LPG	3.2	2.7	2.8	2.7	3.6	3.2	3.3	3.0	3.1	2.9	3.3
Imports	194.0	185.4	189.4	194.5	202.8	198.1	205.8	185.8	190.0	194.8	100.0
Oil	130.4	128.7	130.8	132.2	133.9	127.5	130.2	119.3	120.0	125.6	64.5
Gas	63.5	56.7	58.7	62.3	68.8	70.5	75.7	66.5	70.0	69.2	35.5
Gasoline	1.9	1.9	1.9	1.5	2.2	2.4	3.2	1.9	2.3	1.8	0.9
Diesel	18.2	17.4	18.8	19.8	19.9	18.9	20.3	18.0	16.8	15.9	8.2
Heating Oil	2.4	2.4	1.9	2.4	2.2	2.1	1.6	1.3	1.2	1.1	0.5
Aviation Jet	5.4	4.9	5.1	5.1	6.1	6.7	6.9	3.1	4.1	6.5	3.3
LPG	1.1	0.7	0.8	0.8	1.0	1.1	1.3	1.3	1.5	1.4	0.7
Exports	20.1	21.3	22.4	22.7	23.3	22.3	21.8	22.0	25.3	27.3	100.0
Oil	20.1	21.3	22.4	22.7	23.3	22.3	21.8	22.0	25.3	27.3	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	5.2	5.0	4.5	5.1	5.7	5.1	4.9	5.4	6.0	6.0	22.0
Diesel	7.1	7.9	8.5	9.6	9.1	8.2	7.4	8.3	9.3	11.1	40.7
Heating Oil	2.6	3.0	3.0	2.1	1.8	2.6	2.6	2.7	3.5	3.2	11.7
Aviation Jet	1.2	0.9	1.2	0.9	1.3	1.4	1.4	0.7	1.0	1.7	6.3
LPG	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	1.1
CO₂ Emissions (Million tons CO₂)	787.4	751.8	751.6	761.3	743.1	713.5	667.6	612.7	651.6	636.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	210.0	196.2	193.3	191.5	182.0	172.9	160.1	154.0	159.1	152.7	-
Final energy intensity (toe/million \$15ppp)	56.9	52.9	52.8	52.5	51.5	49.9	49.2	49.7	49.8	46.3	-
Total energy intensity (toe/million \$15ppp)	85.8	80.3	79.5	78.1	76.3	73.6	71.2	70.0	70.4	64.7	-

*Heat is included

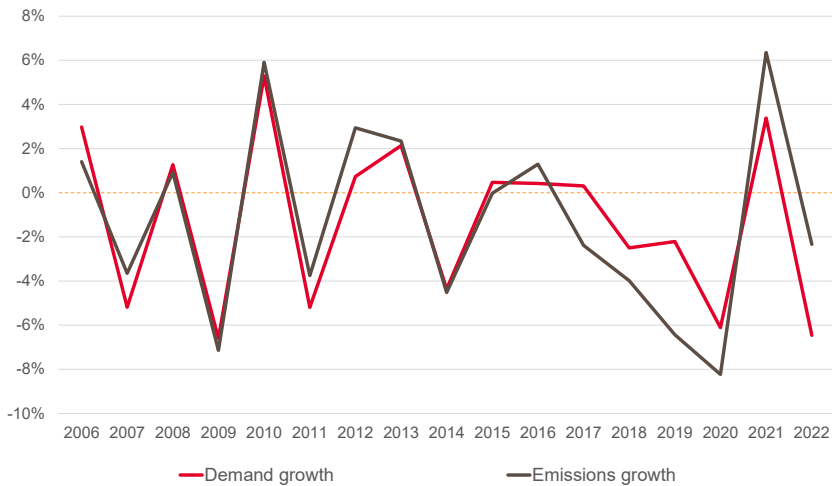
Primary energy demand mix



Electricity generation by source



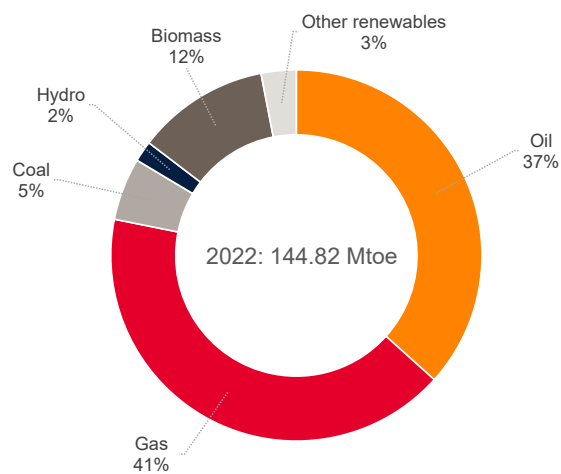
Primary energy demand and CO₂ emissions growth



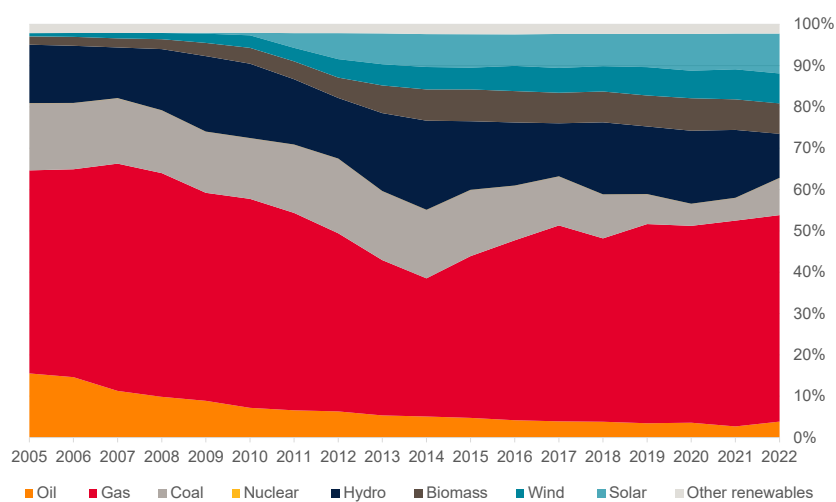
Italy (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	155.9	147.2	153.0	151.2	153.5	150.6	149.0	137.7	149.8	144.8	100.0
Oil	53.8	52.0	54.0	51.7	52.1	50.9	50.1	43.4	49.6	49.7	34.4
Gas	57.4	50.7	55.3	58.1	61.5	59.5	60.9	58.3	62.4	56.2	38.8
Coal	13.5	13.1	12.3	11.0	9.3	8.6	6.5	5.1	5.5	7.4	5.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	5.0	3.9	3.6	3.1	4.2	4.0	4.1	3.9	2.5	1.7
Biomass	14.6	14.0	14.6	14.4	14.9	14.5	14.8	14.6	15.2	15.7	10.8
Other renewables	3.1	3.2	3.2	3.4	3.6	3.5	3.8	3.8	4.0	4.1	2.9
Electricity balance of trade*	8.9	9.2	9.7	9.0	9.0	9.4	8.9	8.4	9.2	9.2	6.3
Total final consumption, by source	121.7	117.4	119.6	118.9	119.6	119.5	118.3	107.9	117.4	113.9	100.0
Oil	46.5	47.8	47.1	46.1	45.5	45.9	45.3	38.3	43.6	44.2	38.8
Gas	35.5	31.2	33.4	33.7	34.4	34.0	33.5	32.3	34.8	29.8	26.1
Coal	2.6	2.7	2.0	2.2	1.6	1.7	1.6	1.3	1.5	1.9	1.7
Electricity	24.7	24.2	24.7	24.6	25.1	25.2	25.1	23.6	25.1	24.9	21.9
Heat	4.0	4.0	4.2	4.3	4.5	4.4	4.5	4.2	3.5	3.6	3.1
Biomass	8.5	7.4	8.3	8.0	8.6	8.3	8.3	8.1	8.9	9.5	8.3
Electricity generation, by source	24.9	24.1	24.3	24.9	25.4	24.9	25.3	24.1	24.9	24.5	100.0
Oil	1.3	1.2	1.2	1.0	1.0	0.9	0.9	0.9	0.7	0.9	3.8
Gas	9.4	8.1	9.5	10.8	12.1	11.1	12.2	11.5	12.4	12.3	50.0
Coal	4.2	4.0	3.9	3.3	3.0	2.7	1.8	1.3	1.4	2.2	9.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.7	5.2	4.0	3.8	3.3	4.3	4.1	4.3	4.1	2.6	10.7
Biomass	1.7	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	7.4
Wind	1.3	1.3	1.3	1.5	1.5	1.5	1.7	1.6	1.8	1.8	7.2
Solar	1.9	1.9	2.0	1.9	2.1	1.9	2.0	2.1	2.2	2.4	9.6
Other renewables	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.2
Total final consumption, by sector	121.7	117.4	119.6	118.9	119.6	119.5	118.3	107.9	117.4	113.9	100.0
Industry	26.6	26.0	26.0	26.2	25.7	25.4	25.6	24.5	26.4	25.8	22.6
Transport	35.9	37.2	36.3	35.9	34.5	35.6	35.8	28.9	35.1	36.3	31.8
Residential/Commercial	50.1	44.2	47.9	47.6	48.5	48.3	46.8	44.7	47.0	44.1	38.7
Oil final consumption, by sector	46.5	47.8	47.1	46.1	45.5	45.9	45.3	38.3	43.6	44.2	100.0
Industry	2.4	1.9	2.8	2.5	1.8	1.9	1.6	1.7	2.2	2.5	5.6
Transport	32.9	34.4	33.3	33.0	31.7	32.5	32.6	26.0	31.6	33.1	74.9
Residential/Commercial	3.3	2.8	2.9	2.8	2.6	2.7	2.5	2.4	2.4	2.3	5.2
Natural gas final consumption, by sector	35.5	31.2	33.4	33.7	34.4	34.0	33.5	32.3	34.8	29.8	100.0
Industry	8.7	8.5	8.3	8.4	8.9	8.6	8.5	8.1	8.9	7.6	25.5
Transport	0.8	0.9	0.9	0.9	0.8	0.9	1.0	0.8	1.2	1.0	3.3
Residential/Commercial	25.3	21.2	23.5	23.6	23.9	23.7	23.2	22.6	23.9	20.5	68.8
Refined products consumption	46.5	47.8	47.1	46.1	45.5	45.9	45.3	38.3	43.6	44.2	100.0
Gasoline	8.7	8.8	8.2	7.8	7.6	7.8	7.9	6.1	7.4	7.9	17.8
Diesel	25.8	26.8	26.2	26.1	24.6	25.6	25.2	21.0	25.1	25.6	57.9
Heating Oil	1.2	1.2	1.5	1.7	1.3	1.2	0.9	0.8	0.9	1.1	2.4
Aviation Jet	0.8	0.8	0.8	0.9	0.9	1.0	1.0	0.4	0.7	1.0	2.2
LPG	3.6	3.5	3.6	3.6	3.7	3.5	3.6	3.2	3.5	3.7	8.3
Imports	128.7	116.9	130.9	135.2	142.0	137.1	138.8	120.1	131.8	138.1	100.0
Oil	78.0	71.3	80.7	81.8	85.0	81.5	80.6	65.7	72.0	78.6	56.9
Gas	50.8	45.7	50.2	53.5	57.0	55.6	58.2	54.4	59.8	59.5	43.1
Gasoline	0.4	0.4	0.5	0.4	0.1	0.4	0.4	0.4	0.3	0.5	0.4
Diesel	3.1	3.2	3.1	4.5	5.1	5.4	5.3	4.7	4.9	5.1	3.7
Heating Oil	0.5	0.3	0.3	0.8	0.8	1.6	1.0	1.2	1.2	1.3	1.0
Aviation Jet	1.5	1.6	1.9	2.1	2.3	2.4	2.6	0.8	0.7	1.6	1.2
LPG	2.6	2.4	2.5	2.6	2.6	2.5	2.7	2.3	2.5	2.8	2.0
Exports	25.1	21.4	28.5	30.1	32.4	30.2	28.4	24.0	28.1	31.5	100.0
Oil	24.9	21.2	28.3	29.9	32.1	29.9	28.2	23.7	26.9	27.8	88.1
Gas	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	1.3	3.8	11.9
Gasoline	8.3	7.4	9.0	8.5	8.9	8.9	8.9	6.6	8.0	8.0	25.5
Diesel	8.6	5.6	9.1	9.5	10.4	9.1	9.8	7.8	8.2	9.5	30.0
Heating Oil	2.1	2.7	3.9	4.5	5.0	4.3	3.6	3.2	4.9	3.3	10.5
Aviation Jet	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.1	0.0	0.0	0.1
LPG	0.5	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.4	0.4	1.1
CO₂ Emissions (Million tons CO₂)	343.7	328.1	335.7	332.7	329.1	323.6	315.2	280.6	312.2	310.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	154.6	147.6	149.8	146.6	142.6	138.9	134.6	131.8	137.5	132.0	-
Final energy intensity (toe/million \$15ppp)	51.9	49.6	50.4	49.6	48.4	48.2	47.5	47.5	49.1	46.3	-
Total energy intensity (toe/million \$15ppp)	70.1	66.2	68.3	66.6	66.5	64.7	63.7	64.7	66.0	61.5	-

*Heat is included

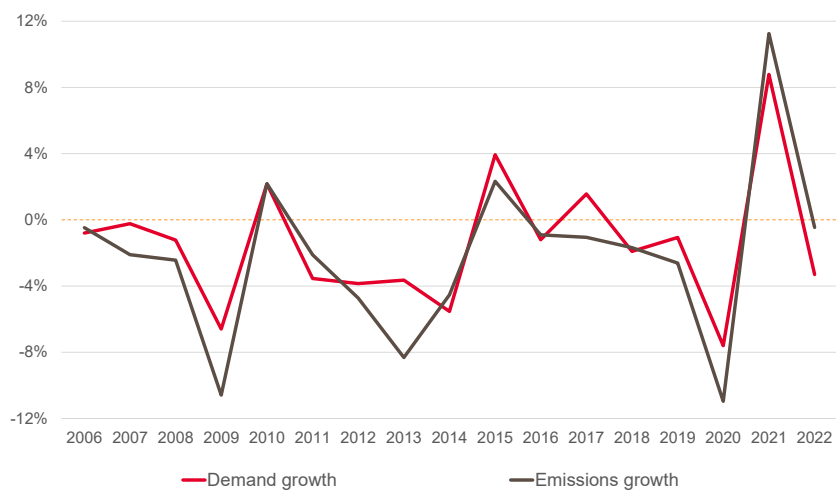
Primary energy demand mix



Electricity generation by source



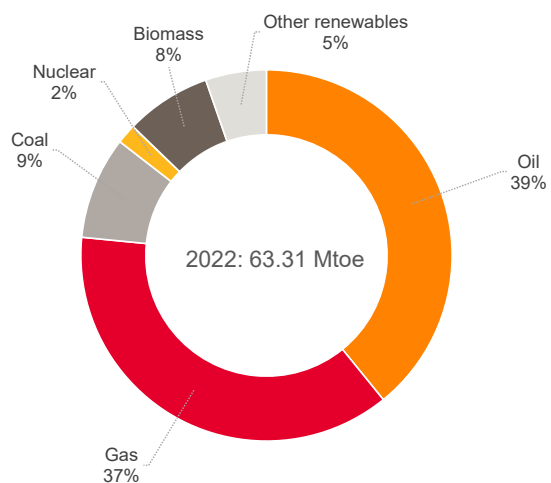
Primary energy demand and CO₂ emissions growth



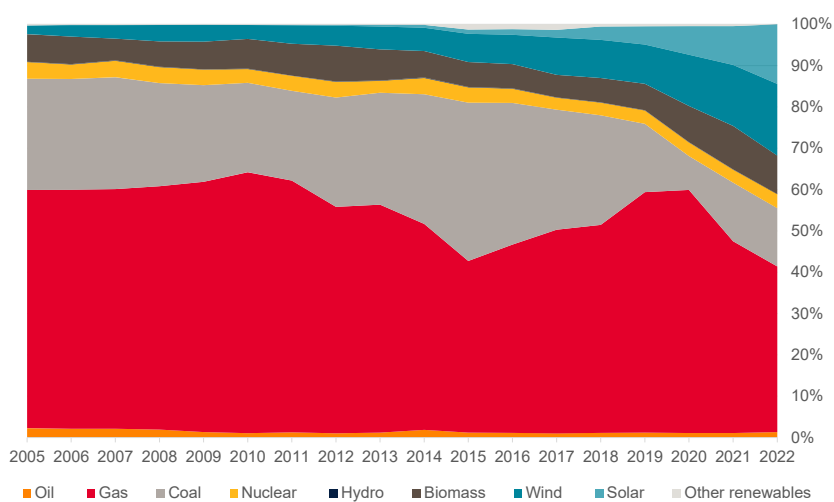
Netherlands (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	75.3	70.8	72.4	74.0	75.0	73.4	71.7	69.5	71.7	63.3	100.0
Oil	27.2	26.2	26.1	27.3	28.0	27.0	25.7	25.2	25.7	24.7	39.0
Gas	33.4	29.1	28.6	30.0	31.2	30.7	32.1	31.6	30.3	23.6	37.3
Coal	8.1	9.0	11.1	10.3	9.2	8.3	6.4	4.1	5.7	5.6	8.9
Nuclear	0.8	1.1	1.1	1.0	0.9	0.9	1.0	1.1	1.0	1.1	1.7
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.7	3.5	3.6	3.6	3.9	4.2	4.5	5.3	6.0	4.7	7.4
Other renewables	0.5	0.6	0.7	0.8	1.1	1.2	1.5	2.1	2.5	3.3	5.3
Electricity balance of trade*	1.6	1.3	1.1	0.8	0.7	1.0	0.5	0.3	0.5	0.2	0.3
Total final consumption, by source	61.0	56.3	56.8	58.4	59.5	58.9	57.3	55.6	57.1	49.9	100.0
Oil	24.3	23.1	23.2	24.3	24.9	24.5	23.1	22.8	22.5	21.4	42.9
Gas	22.1	18.7	19.3	19.8	20.1	19.6	19.3	18.3	19.8	14.8	29.6
Coal	1.8	1.8	1.9	1.9	2.0	2.0	1.9	1.6	1.7	1.7	3.4
Electricity	9.0	8.7	8.9	9.0	9.1	9.3	9.3	9.1	9.2	8.9	17.8
Heat	2.7	2.7	2.4	2.3	2.2	2.1	2.2	2.1	2.2	2.2	4.3
Biomass	1.1	1.2	1.1	1.0	1.2	1.5	1.6	1.5	1.6	1.0	2.0
Electricity generation, by source	8.7	8.9	9.5	9.9	10.1	9.8	10.4	10.6	10.5	10.5	100.0
Oil	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3
Gas	4.8	4.4	3.9	4.5	5.0	4.9	6.1	6.2	4.9	4.2	40.1
Coal	2.4	2.8	3.6	3.4	2.9	2.6	1.7	0.9	1.5	1.5	14.1
Nuclear	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	3.4
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.9	1.1	1.0	9.3
Wind	0.5	0.5	0.6	0.7	0.9	0.9	1.0	1.3	1.5	1.8	17.4
Solar	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.5	14.4
Other renewables	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	61.0	56.3	56.8	58.4	59.5	58.9	57.3	55.6	57.1	49.9	100.0
Industry	14.9	14.7	14.6	15.3	15.3	15.1	14.7	14.5	14.7	13.6	27.3
Transport	10.8	10.0	10.1	10.1	10.3	10.7	10.7	9.1	9.3	9.2	18.5
Residential/Commercial	18.7	15.5	16.2	16.5	16.3	16.2	15.8	15.1	16.3	13.1	26.3
Oil final consumption, by sector	24.3	23.1	23.2	24.3	24.9	24.5	23.1	22.8	22.5	21.4	100.0
Industry	3.0	3.1	3.0	3.4	3.3	3.3	3.0	3.3	3.1	3.6	17.0
Transport	10.3	9.4	9.6	9.6	9.8	9.9	9.8	8.3	8.3	8.2	38.2
Residential/Commercial	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	1.4
Natural gas final consumption, by sector	22.1	18.7	19.3	19.8	20.1	19.6	19.3	18.3	19.8	14.8	100.0
Industry	4.8	4.6	4.8	5.0	5.2	5.1	5.0	4.9	5.1	3.8	25.7
Transport	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Residential/Commercial	12.2	9.3	9.9	10.2	10.0	9.8	9.4	8.8	9.9	7.4	50.1
Refined products consumption	21.7	20.4	21.0	22.0	22.8	22.8	21.6	21.2	21.1	19.9	100.0
Gasoline	3.8	3.7	3.8	3.9	4.0	4.1	4.2	3.5	3.6	3.6	18.2
Diesel	7.5	6.8	6.9	6.8	6.9	6.9	6.6	6.0	5.8	5.5	27.6
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	2.0	2.6	2.7	2.3	2.0	2.3	2.0	2.1	1.8	1.8	8.9
Imports	167.2	164.6	185.4	189.5	169.8	173.5	174.9	158.7	165.9	171.9	100.0
Oil	145.4	142.3	156.3	156.7	152.4	151.2	149.1	132.6	143.7	151.9	88.4
Gas	21.8	22.3	29.2	32.9	17.4	22.4	25.8	26.2	22.3	20.0	11.6
Gasoline	9.9	9.7	10.2	10.2	10.9	7.9	7.5	7.8	8.6	8.4	4.9
Diesel	18.4	15.9	16.9	19.4	17.3	12.5	13.2	12.0	9.2	13.3	7.8
Heating Oil	33.2	34.4	37.8	31.0	15.7	12.8	11.5	19.5	27.2	24.5	14.2
Aviation Jet	4.0	2.7	3.2	4.6	3.8	3.5	3.6	4.2	4.6	4.1	2.4
LPG	2.8	3.7	4.9	4.0	3.5	4.3	3.6	3.6	3.4	3.4	2.0
Exports	154.1	146.8	152.2	158.1	131.3	129.0	124.6	105.1	121.8	112.1	100.0
Oil	103.3	102.7	112.6	115.3	112.6	111.2	107.2	93.2	109.7	107.2	95.6
Gas	50.8	44.1	39.7	42.7	18.7	17.8	17.3	11.9	12.1	4.9	4.4
Gasoline	17.7	19.3	21.4	20.1	20.4	23.9	26.6	20.9	25.3	24.8	22.2
Diesel	30.4	28.6	27.6	31.1	30.1	24.1	25.3	24.1	28.0	24.3	21.7
Heating Oil	27.7	28.9	35.1	31.1	14.8	11.1	9.5	18.2	23.8	23.1	20.6
Aviation Jet	7.0	6.3	6.8	8.5	7.8	8.5	8.4	6.2	5.7	8.0	7.2
LPG	1.5	1.8	2.7	2.6	2.2	2.3	2.3	2.0	2.5	2.2	1.9
CO₂ Emissions (Million tons CO₂)	175.6	168.5	175.5	176.5	174.1	168.5	162.3	146.8	154.6	139.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	213.2	201.7	206.0	202.8	194.4	183.8	173.6	163.2	163.6	140.8	-
Final energy intensity (toe/million \$15ppp)	58.6	52.4	52.4	52.4	51.1	50.3	48.4	47.5	46.8	39.7	-
Total energy intensity (toe/million \$15ppp)	91.4	84.8	85.0	85.0	83.7	80.0	76.7	77.3	75.9	64.1	-

*Heat is included

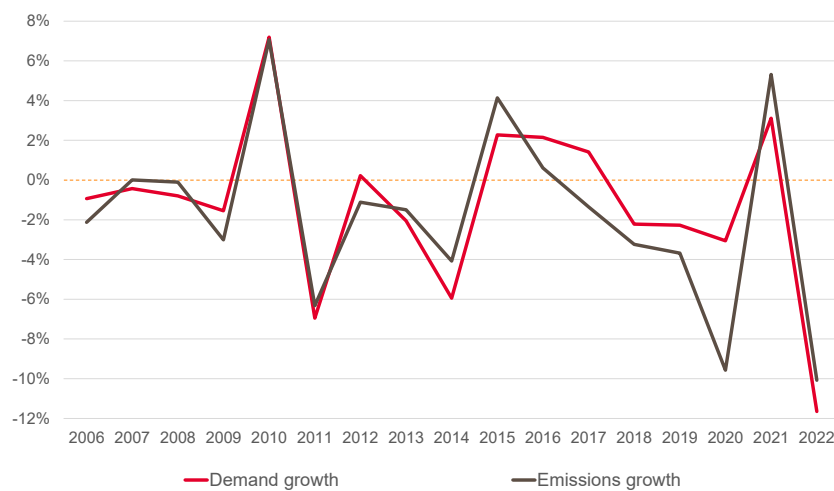
Primary energy demand mix



Electricity generation by source



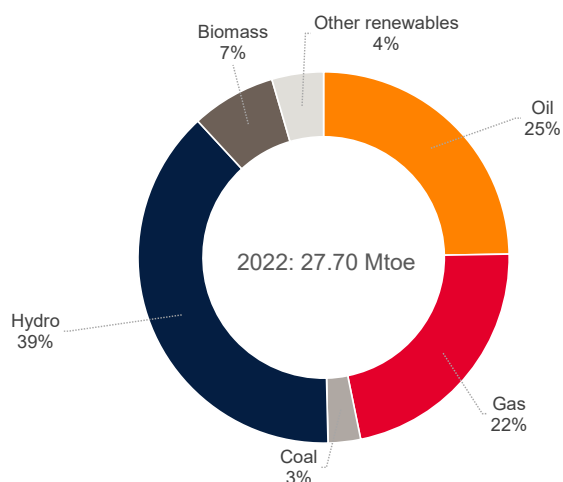
Primary energy demand and CO₂ emissions growth



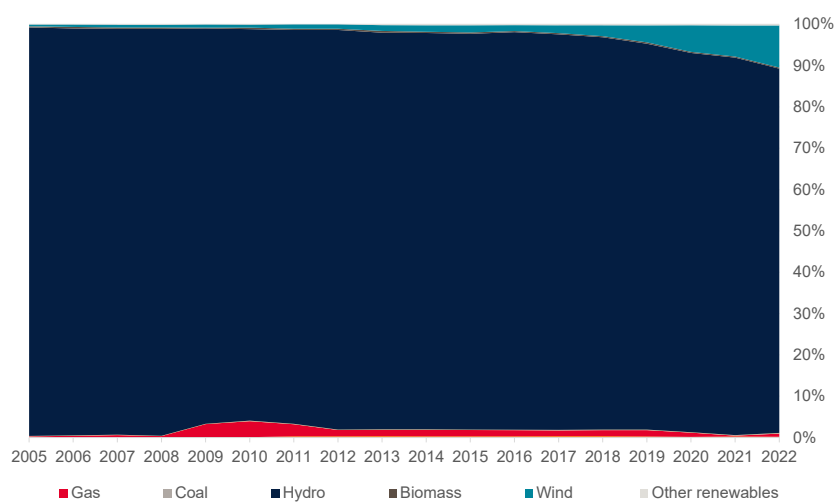
Norway (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	31.0	28.4	25.6	28.3	29.8	29.8	28.4	28.0	29.0	27.7	100.0
Oil	12.1	9.8	6.1	9.1	10.8	10.1	9.1	9.2	8.9	7.1	25.5
Gas	5.6	5.7	6.2	5.6	5.0	5.6	5.0	4.6	5.1	6.3	22.9
Coal	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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	11.0	11.7	11.8	12.3	12.2	12.0	10.8	12.2	12.4	11.0	39.8
Biomass	1.6	1.4	1.5	1.7	1.9	1.9	2.1	1.9	2.1	2.1	7.6
Other renewables	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	1.0	1.3	4.7
Electricity balance of trade*	-0.3	-1.2	-1.1	-1.3	-1.2	-0.8	0.1	-1.7	-1.4	-0.9	-3.4
Total final consumption, by source	21.2	20.8	21.2	21.3	21.6	21.8	21.7	21.2	21.9	20.8	100.0
Oil	8.4	8.4	8.4	8.3	8.2	8.3	8.0	7.7	7.8	7.6	36.5
Gas	0.9	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.8	0.7	3.4
Coal	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.8	3.7
Electricity	9.6	9.4	9.6	9.8	9.9	10.1	10.0	10.0	10.3	9.7	46.6
Heat	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.5	2.5
Biomass	1.2	1.0	1.0	1.1	1.4	1.3	1.5	1.4	1.5	1.5	7.2
Electricity generation, by source	11.5	12.2	12.4	12.8	12.9	12.7	11.6	13.4	13.6	12.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	11.1	11.7	11.9	12.3	12.3	12.0	10.8	12.3	12.4	11.1	88.2
Biomass	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Wind	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.9	1.0	1.3	10.1
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total final consumption, by sector	21.2	20.8	21.2	21.3	21.6	21.8	21.7	21.2	21.9	20.8	100.0
Industry	6.2	6.1	6.1	6.1	6.2	6.3	6.4	6.5	6.8	6.5	31.5
Transport	5.2	5.3	5.3	5.3	5.3	5.1	5.1	4.8	5.0	5.2	24.8
Residential/Commercial	7.0	6.5	6.7	7.0	7.0	7.1	7.0	6.8	7.0	6.5	31.1
Oil final consumption, by sector	8.4	8.4	8.4	8.3	8.2	8.3	8.0	7.7	7.8	7.6	100.0
Industry	1.0	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	10.6
Transport	4.9	5.0	5.0	4.8	4.6	4.6	4.5	4.2	4.4	4.4	58.4
Residential/Commercial	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	3.7
Natural gas final consumption, by sector	0.9	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.8	0.7	100.0
Industry	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	36.3
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	13.9
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Refined products consumption	8.4	8.4	8.4	8.3	8.2	8.3	8.0	7.7	7.8	7.6	100.0
Gasoline	1.0	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	8.4
Diesel	4.6	4.6	4.7	4.7	4.5	4.6	4.4	4.3	4.5	4.5	58.7
Heating Oil	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Aviation Jet	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	5.0
LPG	0.9	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5	5.9
Imports	6.8	5.5	6.5	6.3	7.9	9.1	9.6	9.3	8.9	9.1	100.0
Oil	6.8	5.5	6.5	6.3	7.9	9.1	9.6	9.3	8.7	9.1	99.4
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6
Gasoline	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.7	7.4
Diesel	1.3	1.1	1.7	1.8	1.8	1.6	2.1	2.5	2.7	3.9	43.1
Heating Oil	1.9	1.2	1.6	1.3	1.8	1.4	1.0	0.8	0.9	1.2	13.6
Aviation Jet	0.4	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.4	4.3
LPG	0.2	0.2	0.2	0.4	0.2	0.3	0.3	0.2	0.2	0.2	2.4
Exports	169.7	171.5	185.9	185.0	192.4	184.6	177.2	187.6	193.4	196.3	100.0
Oil	79.0	81.5	89.1	88.3	88.4	83.3	81.3	94.1	97.7	94.1	47.9
Gas	90.7	90.0	96.7	96.8	104.0	101.3	95.9	93.5	95.7	102.2	52.1
Gasoline	2.3	2.2	3.3	3.5	3.8	4.1	3.8	3.3	4.1	3.9	2.0
Diesel	2.7	2.8	3.4	2.8	4.4	4.2	4.2	3.4	3.5	2.4	1.2
Heating Oil	1.9	1.5	1.4	1.0	1.4	1.4	1.6	1.6	0.8	0.1	0.1
Aviation Jet	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	40.7	40.9	41.8	40.8	40.8	40.5	39.5	37.8	36.4	35.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	135.1	133.2	133.6	128.8	125.9	123.7	119.6	115.4	106.9	102.0	-
Final energy intensity (toe/million \$15ppp)	62.6	59.9	59.6	59.9	59.1	58.7	58.0	57.2	57.3	53.4	-
Total energy intensity (toe/million \$15ppp)	102.9	92.4	81.6	89.4	92.1	91.1	86.0	85.5	85.1	78.8	-

*Heat is included

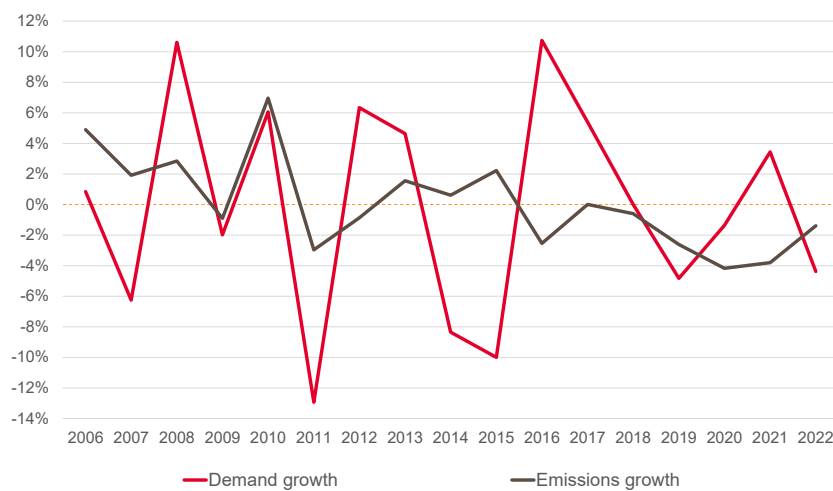
Primary energy demand mix



Electricity generation by source



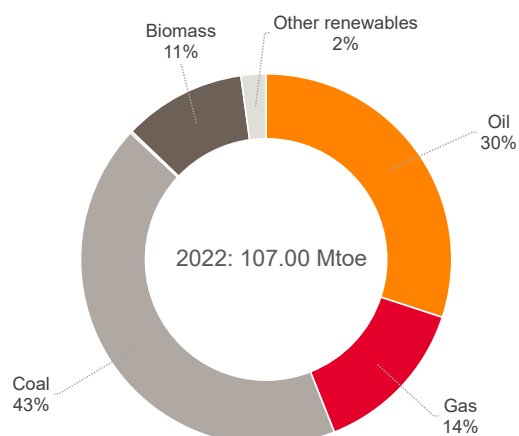
Primary energy demand and CO₂ emissions growth



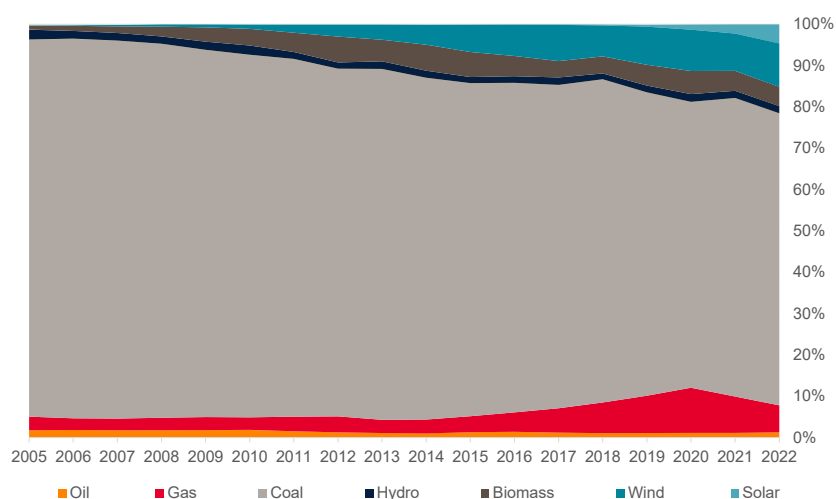
Poland (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	97.9	94.2	95.3	99.7	104.2	109.2	105.2	102.1	108.4	107.0	100.0
Oil	22.8	22.6	24.0	26.4	29.7	30.4	30.8	29.5	31.1	32.1	30.0
Gas	13.7	13.4	13.8	14.6	15.4	16.1	16.2	17.1	18.2	14.9	14.0
Coal	52.7	48.9	48.1	48.9	49.1	49.1	43.8	40.7	45.3	46.0	43.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Biomass	8.3	8.2	8.3	8.1	8.1	11.7	11.9	11.9	11.6	11.4	10.7
Other renewables	0.5	0.7	0.9	1.1	1.3	1.1	1.4	1.5	1.7	2.3	2.2
Electricity balance of trade*	-0.3	0.3	0.1	0.3	0.3	0.6	1.0	1.3	0.2	0.0	0.0
Total final consumption, by source	67.4	65.9	67.1	71.3	75.7	79.2	78.0	76.2	79.7	77.7	100.0
Oil	20.9	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.3	39.0
Gas	10.5	10.0	10.3	11.0	11.0	10.9	10.8	10.9	12.5	10.7	13.7
Coal	13.4	12.9	12.4	12.7	13.0	12.4	10.7	10.3	10.1	9.5	12.2
Electricity	10.6	10.8	11.0	11.4	11.7	12.1	12.1	11.8	12.3	12.0	15.4
Heat	6.0	5.5	5.5	5.7	5.9	5.7	5.7	5.7	6.1	6.1	7.9
Biomass	6.0	5.7	5.9	6.1	6.4	9.9	9.7	9.5	9.3	9.1	11.7
Electricity generation, by source	14.2	13.7	14.2	14.3	14.7	14.6	14.1	13.6	15.4	15.4	100.0
Oil	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.3
Gas	0.5	0.5	0.5	0.7	0.9	1.1	1.3	1.5	1.4	1.0	6.5
Coal	12.0	11.3	11.4	11.4	11.5	11.4	10.4	9.4	11.2	10.9	70.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	1.7
Biomass	0.7	0.9	0.9	0.7	0.6	0.6	0.7	0.8	0.7	0.7	4.7
Wind	0.5	0.7	0.9	1.1	1.3	1.1	1.3	1.4	1.4	1.6	10.5
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.7	4.6
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	67.4	65.9	67.1	71.3	75.7	79.2	78.0	76.2	79.7	77.7	100.0
Industry	15.1	15.2	15.3	15.8	17.0	17.5	17.6	16.8	17.2	15.9	20.5
Transport	15.4	15.4	16.2	18.2	21.0	21.9	22.4	21.4	23.2	23.6	30.4
Residential/Commercial	28.5	26.7	26.7	28.3	27.9	30.3	28.6	28.4	30.3	29.0	37.4
Oil final consumption, by sector	20.9	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.3	100.0
Industry	0.8	0.7	0.6	0.6	0.7	0.7	0.9	0.9	0.9	1.0	3.3
Transport	14.4	14.5	15.3	17.4	20.2	20.7	21.1	20.1	21.8	22.1	73.0
Residential/Commercial	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	0.9	3.1
Natural gas final consumption, by sector	10.5	10.0	10.3	11.0	11.0	10.9	10.8	10.9	12.5	10.7	100.0
Industry	3.2	3.2	3.2	3.4	3.7	3.9	3.9	3.9	4.2	3.4	31.6
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	4.8	4.9	5.4	5.1	4.9	5.0	5.0	6.2	5.7	53.2
Refined products consumption	20.9	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.3	100.0
Gasoline	3.7	3.5	3.7	3.9	4.2	4.4	4.5	4.2	4.7	5.0	16.6
Diesel	11.5	11.6	12.2	14.1	16.7	17.2	17.4	17.0	18.2	18.1	59.6
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Aviation Jet	0.0	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	2.7	2.9	2.9	3.1	2.7	2.8	2.8	9.3
Imports	38.6	38.9	42.5	44.8	48.1	49.9	50.6	48.0	49.9	49.9	100.0
Oil	28.4	29.2	32.5	32.6	35.1	36.9	36.2	33.5	34.5	37.7	75.6
Gas	10.3	9.7	10.0	12.2	13.0	13.1	14.5	14.5	15.3	12.1	24.4
Gasoline	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.8	0.9	1.8
Diesel	1.0	1.5	2.1	3.8	5.3	4.9	4.6	4.4	5.6	5.3	10.6
Heating Oil	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
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	2.3	2.2	2.2	2.4	2.7	2.8	2.9	2.4	2.5	2.9	5.7
Exports	7.0	7.5	8.4	7.9	6.3	6.8	6.5	5.8	4.2	5.4	100.0
Oil	6.9	7.4	8.4	7.2	5.3	6.2	5.4	4.7	4.1	5.4	98.8
Gas	0.1	0.1	0.0	0.7	1.0	0.6	1.1	1.2	0.1	0.1	1.2
Gasoline	0.9	0.7	0.8	0.5	0.2	0.4	0.3	0.2	0.1	0.1	1.8
Diesel	0.6	1.0	1.8	1.1	0.2	0.0	0.1	0.3	0.1	1.2	22.5
Heating Oil	2.5	2.8	2.6	2.4	2.4	2.7	2.2	1.1	1.0	1.0	19.3
Aviation Jet	0.4	0.5	0.5	0.5	0.2	0.3	0.3	0.2	0.2	0.1	2.7
LPG	0.3	0.2	0.2	0.3	0.5	0.6	0.5	0.4	0.4	0.7	12.4
CO₂ Emissions (Million tons CO₂)	305.7	292.5	296.6	307.3	319.9	318.9	301.6	286.2	315.5	316.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	322.8	298.8	290.7	291.9	290.0	274.4	247.7	241.2	251.5	240.4	-
Final energy intensity (toe/million \$15ppp)	66.0	62.1	60.3	62.4	63.3	63.3	59.5	59.4	59.3	54.9	-
Total energy intensity (toe/million \$15ppp)	103.4	96.3	93.4	94.7	94.4	94.0	86.4	86.1	86.4	81.3	-

*Heat is included

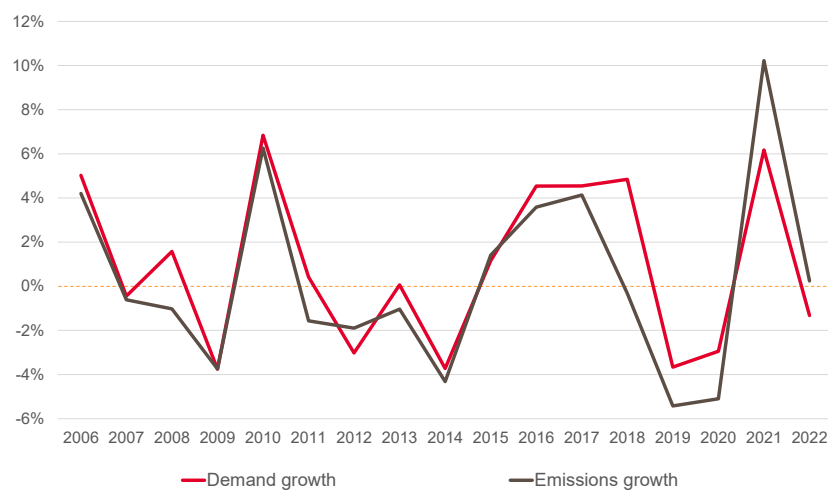
Primary energy demand mix



Electricity generation by source



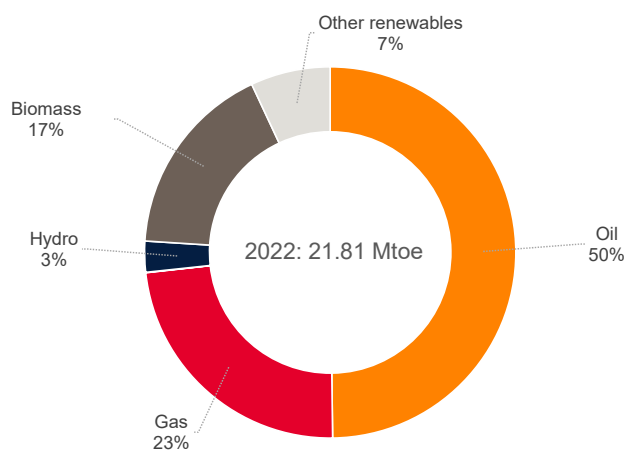
Primary energy demand and CO₂ emissions growth



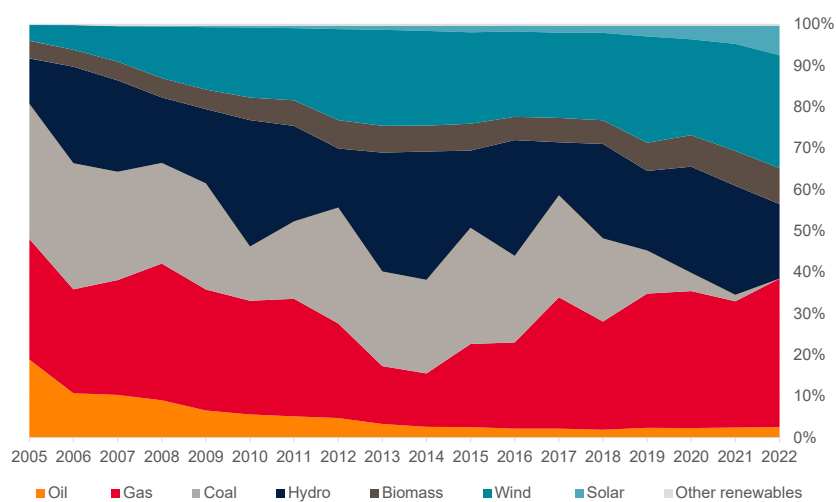
Portugal (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	21.5	21.2	22.0	21.8	22.8	22.1	21.8	20.2	20.2	21.8	100.0
Oil	9.4	9.3	9.4	9.3	9.4	8.9	9.4	8.5	8.5	10.3	47.3
Gas	3.8	3.5	4.1	4.3	5.4	5.0	5.3	5.2	5.0	4.9	22.3
Coal	2.6	2.7	3.3	2.8	3.2	2.7	1.2	0.6	0.2	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	1.2	1.3	0.7	1.4	0.5	1.1	0.8	1.0	1.0	0.6	2.6
Biomass	3.0	3.0	3.0	3.1	3.1	3.1	3.2	3.3	3.4	3.5	16.2
Other renewables	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	1.4	6.6
Electricity balance of trade*	0.5	0.3	0.5	-0.2	0.0	0.1	0.6	0.4	0.7	1.1	4.9
Total final consumption, by source	16.3	16.2	16.3	16.2	16.5	16.2	16.8	15.6	16.3	16.8	100.0
Oil	8.2	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.7	8.4	50.1
Gas	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.7	1.9	1.5	9.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.9	3.9	3.9	4.0	4.0	4.1	4.1	4.0	4.1	4.2	25.0
Heat	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.8
Biomass	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	13.8
Electricity generation, by source	4.4	4.5	4.5	5.2	5.1	5.1	4.6	4.6	4.4	4.2	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.5
Gas	0.6	0.6	0.9	1.1	1.6	1.3	1.5	1.5	1.3	1.5	35.9
Coal	1.0	1.0	1.3	1.1	1.3	1.0	0.5	0.2	0.1	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	1.3	1.4	0.8	1.5	0.7	1.2	0.9	1.2	1.2	0.8	18.0
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	8.7
Wind	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.1	27.2
Solar	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	7.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Total final consumption, by sector	16.3	16.2	16.3	16.2	16.5	16.2	16.8	15.6	16.3	16.8	100.0
Industry	4.6	4.4	4.4	4.4	4.5	4.5	4.6	4.4	4.5	4.5	26.5
Transport	5.5	5.5	5.6	5.7	5.8	5.9	6.0	5.0	5.5	6.0	35.7
Residential/Commercial	4.4	4.5	4.5	4.5	4.5	4.6	4.6	4.5	4.5	4.6	27.2
Oil final consumption, by sector	8.2	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.7	8.4	100.0
Industry	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.5	0.7	8.0
Transport	5.2	5.2	5.2	5.4	5.5	5.5	5.7	4.7	5.1	5.6	66.6
Residential/Commercial	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	6.1
Natural gas final consumption, by sector	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.7	1.9	1.5	100.0
Industry	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.3	1.0	62.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	32.9
Refined products consumption	8.2	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.7	8.4	100.0
Gasoline	1.2	1.1	1.1	1.1	1.1	1.1	1.1	0.9	1.0	1.1	13.4
Diesel	4.3	4.4	4.5	4.7	4.7	4.8	4.9	4.3	4.5	4.8	56.7
Heating Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.3	3.2
Aviation Jet	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.3	3.2
LPG	0.9	1.1	0.9	0.9	0.8	0.7	0.9	0.9	0.8	0.8	9.6
Imports	20.0	18.8	22.2	22.0	23.9	22.0	21.7	19.9	19.6	20.9	100.0
Oil	16.2	15.3	18.1	17.8	18.4	16.9	16.5	14.7	14.7	15.8	75.7
Gas	3.8	3.5	4.1	4.3	5.4	5.1	5.3	5.1	5.0	5.1	24.3
Gasoline	0.1	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.9
Diesel	0.6	0.7	0.8	1.0	0.9	0.9	1.3	0.9	1.5	1.3	6.2
Heating Oil	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9
Aviation Jet	0.0	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.2	0.4	1.7
LPG	0.7	0.9	0.8	0.8	0.7	0.6	0.8	0.8	0.8	1.0	4.8
Exports	5.6	4.8	6.9	6.8	7.0	5.4	4.9	5.3	5.1	3.7	100.0
Oil	5.6	4.8	6.9	6.8	7.0	5.4	4.9	5.3	5.1	3.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.4	1.0	1.9	1.8	2.0	1.7	1.7	1.3	1.5	1.4	38.4
Diesel	1.7	1.3	2.3	2.1	2.1	1.2	0.9	1.3	1.4	0.3	9.3
Heating Oil	1.5	1.5	1.6	1.6	1.5	1.2	1.1	1.5	1.5	1.4	38.8
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	1.5
CO₂ Emissions (Million tons CO₂)	45.4	44.5	48.5	47.9	52.3	48.4	43.8	37.9	36.3	38.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	151.5	147.3	158.0	152.9	161.1	145.0	127.7	120.8	110.5	110.6	-
Final energy intensity (toe/million \$15ppp)	49.8	49.0	48.7	48.0	47.1	46.4	45.7	46.0	45.6	44.4	-
Total energy intensity (toe/million \$15ppp)	71.9	70.3	71.6	69.7	70.3	66.1	63.6	64.3	61.3	62.1	-

*Heat is included

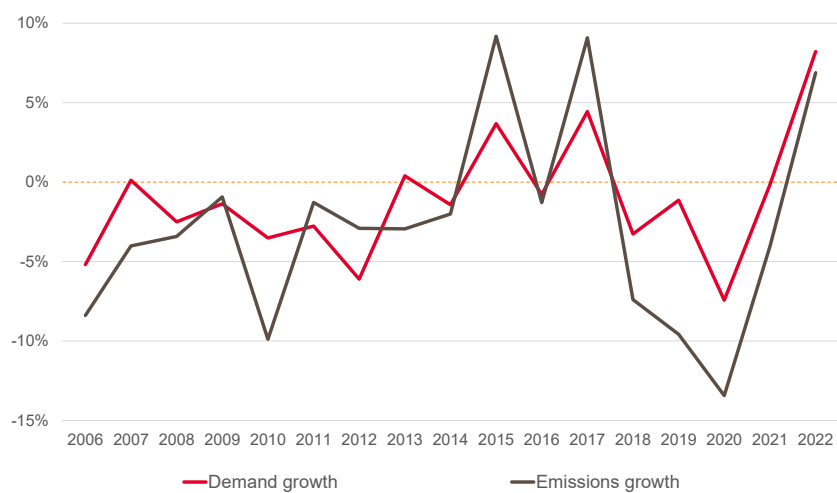
Primary energy demand mix



Electricity generation by source



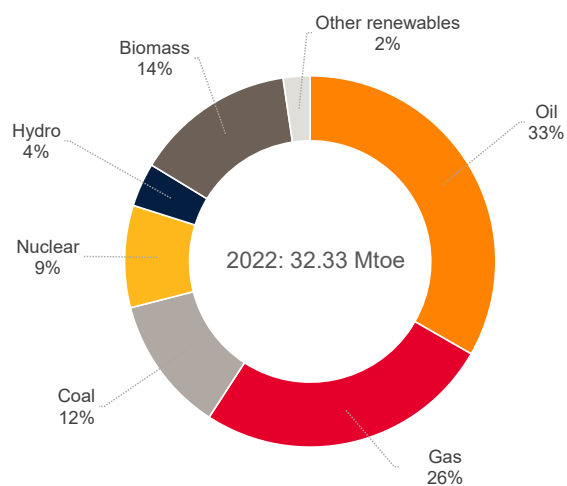
Primary energy demand and CO₂ emissions growth



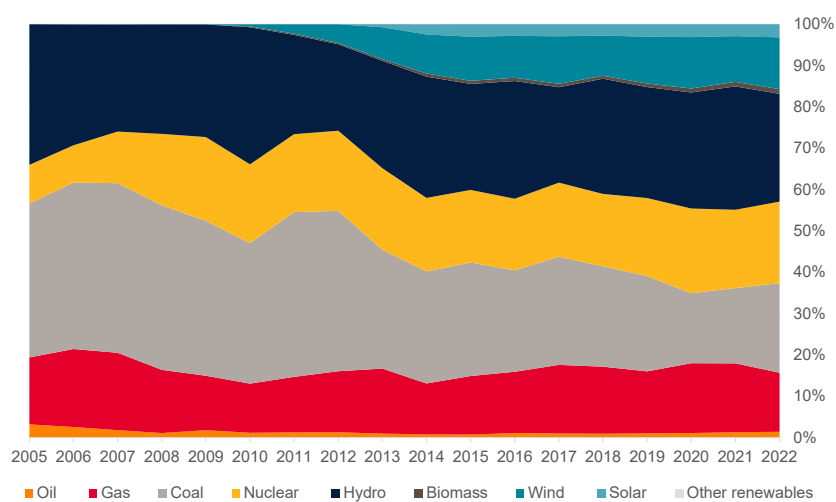
Romania (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	31.9	31.5	31.8	31.7	33.3	33.5	33.1	32.3	34.3	32.3	100.0
Oil	7.9	7.8	8.5	8.6	9.4	9.6	9.8	9.7	10.5	10.7	33.2
Gas	9.8	9.3	8.9	9.0	9.6	9.8	9.2	9.6	9.8	8.3	25.8
Coal	5.7	5.7	5.9	5.3	5.4	5.1	4.9	3.5	4.1	3.8	11.8
Nuclear	3.0	3.0	3.0	2.9	3.0	3.0	2.9	3.0	2.9	2.9	8.9
Hydro	1.3	1.6	1.4	1.6	1.2	1.5	1.3	1.3	1.5	1.2	3.8
Biomass	3.9	3.9	3.8	4.0	4.0	4.0	4.1	4.2	4.5	4.5	13.9
Other renewables	0.4	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.8	2.3
Electricity balance of trade*	-0.1	-0.6	-0.6	-0.4	-0.2	-0.2	0.2	0.3	0.2	0.1	0.4
Total final consumption, by source	23.1	23.0	22.8	23.1	24.0	24.4	24.7	24.6	26.3	25.1	100.0
Oil	7.1	7.3	7.6	7.9	8.3	8.5	9.0	8.8	9.3	9.5	37.7
Gas	6.5	6.3	5.6	5.5	5.9	6.1	5.9	6.2	6.9	5.9	23.4
Coal	0.9	0.9	1.0	0.9	0.8	0.8	0.8	0.8	0.9	0.8	3.1
Electricity	3.5	3.6	3.7	3.7	3.8	3.9	3.9	3.8	4.0	3.7	14.7
Heat	1.4	1.3	1.3	1.3	1.3	1.3	1.1	1.0	1.0	1.0	4.2
Biomass	3.8	3.7	3.6	3.8	3.8	3.8	3.8	4.0	4.2	4.3	16.9
Electricity generation, by source	5.1	5.6	5.7	5.6	5.5	5.6	5.1	4.8	5.1	4.8	100.0
Oil	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Gas	0.8	0.7	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.7	14.3
Coal	1.5	1.5	1.6	1.4	1.4	1.4	1.2	0.8	0.9	1.0	21.7
Nuclear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	19.7
Hydro	1.3	1.7	1.5	1.6	1.3	1.6	1.4	1.4	1.5	1.3	26.1
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1
Wind	0.4	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	12.5
Solar	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	3.2
Other renewables	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	23.1	23.0	22.8	23.1	24.0	24.4	24.7	24.6	26.3	25.1	100.0
Industry	6.3	6.5	6.4	6.3	6.4	6.6	6.7	6.4	6.9	6.3	25.1
Transport	5.2	5.3	5.4	5.8	6.2	6.4	6.6	6.5	6.9	7.0	27.9
Residential/Commercial	9.6	9.2	9.2	9.3	9.6	9.6	9.5	9.6	10.4	9.7	38.7
Oil final consumption, by sector	7.1	7.3	7.6	7.9	8.3	8.5	9.0	8.8	9.3	9.5	100.0
Industry	0.8	0.9	1.0	0.9	0.9	1.0	1.2	1.1	1.1	1.1	12.1
Transport	4.9	5.0	5.1	5.4	5.8	6.0	6.1	5.9	6.3	6.4	67.7
Residential/Commercial	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	3.3
Natural gas final consumption, by sector	6.5	6.3	5.6	5.5	5.9	6.1	5.9	6.2	6.9	5.9	100.0
Industry	2.4	2.5	2.2	2.1	2.2	2.3	2.1	2.2	2.4	2.1	35.1
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	3.2	2.9	3.0	3.0	3.2	3.3	3.3	3.5	4.0	3.4	57.5
Refined products consumption	7.1	7.3	7.5	7.9	8.3	8.5	9.0	8.7	9.2	9.4	100.0
Gasoline	1.3	1.4	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.3	14.1
Diesel	4.2	4.2	4.4	4.7	5.1	5.3	5.5	5.4	5.9	6.0	63.4
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	0.1	0.1	0.0	0.0	0.1	0.9
LPG	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.0
Imports	8.9	9.7	9.8	11.6	12.1	12.9	14.2	12.4	14.1	15.1	100.0
Oil	7.7	9.2	9.6	10.4	11.1	11.6	12.1	10.7	11.2	12.9	85.1
Gas	1.2	0.5	0.2	1.2	1.0	1.2	2.1	1.7	2.8	2.2	14.9
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
Diesel	1.1	1.0	1.2	1.2	1.4	1.5	1.2	1.3	1.9	2.2	14.3
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	0.1	0.1	0.0	0.0	0.1	0.1	0.5
LPG	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	1.5
Exports	3.9	4.8	4.9	5.3	5.2	5.5	5.6	4.6	4.6	5.7	100.0
Oil	3.9	4.8	4.9	5.3	5.2	5.5	5.6	4.5	4.1	4.9	86.5
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.8	13.5
Gasoline	1.8	1.8	1.9	2.2	2.0	2.3	2.3	2.0	1.7	2.2	39.1
Diesel	0.9	1.7	1.6	1.7	1.6	1.6	1.6	1.2	0.9	1.2	21.3
Heating Oil	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1.5
Aviation Jet	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.3	5.8
LPG	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	6.5
CO₂ Emissions (Million tons CO₂)	69.6	69.1	69.4	67.8	71.1	71.6	70.1	64.9	71.1	66.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	173.4	166.3	162.1	151.3	147.7	142.5	133.8	128.8	133.2	119.4	-
Final energy intensity (toe/million \$15ppp)	54.0	51.7	50.6	49.0	47.6	46.4	45.0	46.2	47.0	42.8	-
Total energy intensity (toe/million \$15ppp)	79.4	75.8	74.2	70.8	69.1	66.7	63.3	64.0	64.2	57.8	-

*Heat is included

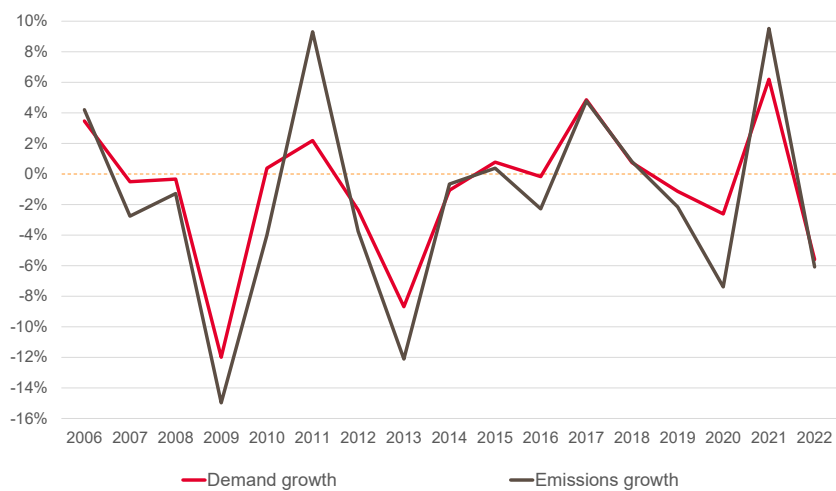
Primary energy demand mix



Electricity generation by source



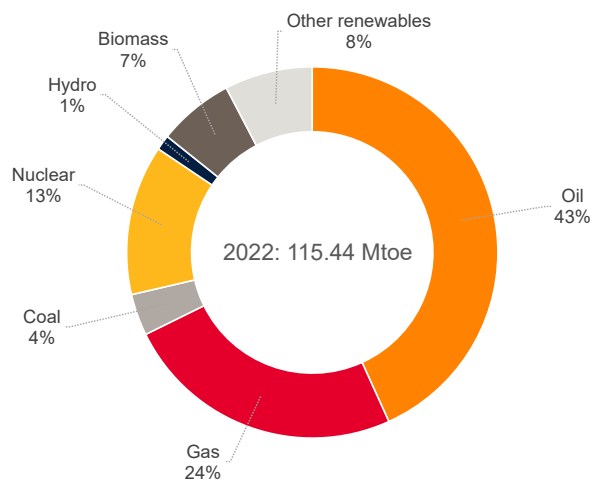
Primary energy demand and CO₂ emissions growth



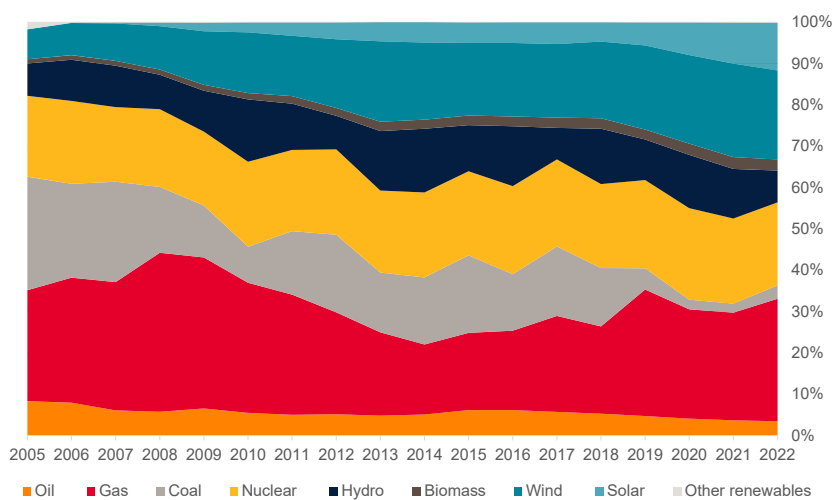
Spain (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	116.2	113.4	117.5	117.9	124.1	123.7	120.2	108.4	115.0	115.4	100.0
Oil	47.5	46.5	48.6	49.9	52.6	52.7	51.3	44.1	48.4	50.5	43.7
Gas	26.2	23.7	24.5	25.0	27.3	27.1	30.9	27.9	29.5	28.6	24.8
Coal	11.0	11.4	13.3	10.5	12.8	11.3	5.0	2.9	3.1	4.2	3.7
Nuclear	14.8	14.9	14.9	15.3	15.1	14.5	15.2	15.2	14.7	15.3	13.2
Hydro	3.2	3.4	2.4	3.1	1.6	3.0	2.1	2.6	2.5	1.5	1.3
Biomass	7.3	7.2	7.2	6.9	7.3	7.8	7.8	7.6	7.8	7.7	6.7
Other renewables	6.6	6.4	6.2	6.2	6.3	6.2	6.9	7.4	8.4	8.9	7.7
Electricity balance of trade*	-0.4	-0.1	0.3	0.9	1.1	1.3	0.9	0.6	0.4	-1.3	-1.1
Total final consumption, by source	82.1	79.8	80.7	82.8	84.9	87.0	86.7	77.8	83.7	82.9	100.0
Oil	40.3	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.8	44.4	53.5
Gas	15.2	14.7	13.3	13.8	14.0	14.7	14.9	14.2	15.3	12.4	15.0
Coal	1.7	1.4	1.4	1.3	1.6	1.5	1.3	1.1	1.3	1.2	1.5
Electricity	19.8	19.5	19.9	20.0	20.5	20.5	20.1	18.9	19.6	19.2	23.1
Heat	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
Biomass	5.0	5.0	5.2	5.0	5.3	5.7	5.8	5.4	5.4	5.4	6.5
Electricity generation, by source	24.6	24.0	24.2	23.6	23.7	23.6	23.5	22.7	23.6	25.1	100.0
Oil	1.2	1.2	1.5	1.5	1.4	1.2	1.1	0.9	0.9	0.9	3.4
Gas	4.9	4.1	4.5	4.5	5.5	5.0	7.2	6.0	6.1	7.4	29.7
Coal	3.6	3.9	4.5	3.2	4.0	3.3	1.2	0.5	0.5	0.8	3.2
Nuclear	4.9	4.9	4.9	5.0	5.0	4.8	5.0	5.0	4.9	5.0	20.1
Hydro	3.5	3.7	2.7	3.4	1.8	3.2	2.3	2.9	2.8	1.9	7.7
Biomass	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	2.7
Wind	4.8	4.5	4.2	4.2	4.2	4.4	4.8	4.9	5.3	5.4	21.5
Solar	1.1	1.2	1.2	1.2	1.2	1.1	1.3	1.8	2.3	2.9	11.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	82.1	79.8	80.7	82.8	84.9	87.0	86.7	77.8	83.7	82.9	100.0
Industry	20.7	20.1	19.4	20.5	21.2	21.3	21.2	19.3	20.7	18.3	22.1
Transport	28.3	28.5	29.4	30.6	31.7	32.5	32.9	26.1	30.3	32.3	39.0
Residential/Commercial	24.9	23.9	24.7	23.9	24.2	25.0	24.3	23.5	24.0	23.5	28.3
Oil final consumption, by sector	40.3	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.8	44.4	100.0
Industry	2.7	2.6	2.7	2.9	2.9	3.0	2.9	2.5	2.3	2.4	5.4
Transport	27.0	27.1	28.0	29.1	30.0	30.4	30.8	24.2	28.4	30.6	68.9
Residential/Commercial	4.3	3.9	4.1	4.0	3.9	4.1	3.6	3.5	3.6	3.8	8.5
Natural gas final consumption, by sector	15.2	14.7	13.3	13.8	14.0	14.7	14.9	14.2	15.3	12.4	100.0
Industry	9.0	8.8	7.4	7.9	8.1	8.4	8.6	8.1	8.8	6.5	52.2
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	1.4
Residential/Commercial	4.7	4.5	5.1	5.1	5.2	5.6	5.4	5.4	5.7	5.3	42.5
Refined products consumption	40.3	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.8	44.4	100.0
Gasoline	4.6	4.6	4.6	4.8	4.9	5.1	5.5	4.3	5.4	5.9	13.2
Diesel	25.9	25.7	27.1	27.6	28.1	28.4	28.1	24.4	26.9	27.3	61.5
Heating Oil	0.8	0.6	0.5	0.6	0.9	0.9	0.9	0.6	0.6	0.8	1.7
Aviation Jet	1.7	1.8	1.9	2.0	2.2	2.3	2.4	1.0	1.7	2.9	6.6
LPG	1.8	1.9	2.1	2.8	2.6	3.0	2.7	2.4	2.0	2.3	5.1
Imports	110.3	112.5	112.8	114.7	120.6	119.8	121.1	103.4	110.0	118.3	100.0
Oil	79.5	80.8	84.7	86.5	90.5	89.5	88.8	75.1	77.9	83.7	70.8
Gas	30.9	31.7	28.2	28.2	30.1	30.3	32.4	28.3	32.2	34.5	29.2
Gasoline	0.1	0.1	0.1	0.2	0.4	0.5	1.5	1.1	0.5	0.8	0.7
Diesel	4.8	3.9	4.8	4.9	5.2	4.9	5.1	6.0	6.8	4.9	4.1
Heating Oil	4.2	5.4	4.3	5.9	6.8	7.1	6.6	3.8	4.0	5.5	4.7
Aviation Jet	1.9	2.1	2.3	2.3	2.4	1.9	1.8	1.3	0.7	1.7	1.4
LPG	0.4	0.7	0.9	1.6	1.5	1.5	1.4	1.1	0.8	1.2	1.0
Exports	27.7	29.0	27.8	28.8	30.5	28.6	25.3	24.5	25.5	25.8	100.0
Oil	22.6	21.9	23.4	25.3	28.0	25.7	24.3	23.4	22.9	20.8	80.6
Gas	5.1	7.2	4.4	3.5	2.5	2.8	1.0	1.0	2.6	5.0	19.4
Gasoline	3.6	3.5	5.0	4.7	4.8	4.6	5.0	4.6	4.8	4.3	16.5
Diesel	5.5	5.2	5.5	5.5	6.7	6.3	6.1	7.3	6.5	5.1	19.7
Heating Oil	2.9	2.9	2.2	2.9	3.5	3.6	2.6	2.4	2.1	1.9	7.4
Aviation Jet	0.4	0.4	0.5	0.7	0.6	0.6	0.4	0.5	0.8	0.4	1.7
LPG	0.4	0.5	0.4	0.5	0.6	0.5	0.6	0.5	0.6	0.6	2.3
CO₂ Emissions (Million tons CO₂)	242.0	240.6	256.3	248.2	263.9	259.1	240.2	200.8	216.1	227.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	157.2	154.1	158.1	148.6	153.4	147.3	133.7	125.4	128.4	128.2	-
Final energy intensity (toe/million \$15ppp)	50.1	48.4	47.1	46.6	46.5	46.5	45.3	45.0	46.5	43.6	-
Total energy intensity (toe/million \$15ppp)	75.4	72.7	72.5	70.6	72.2	70.3	66.9	67.7	68.3	65.0	-

*Heat is included

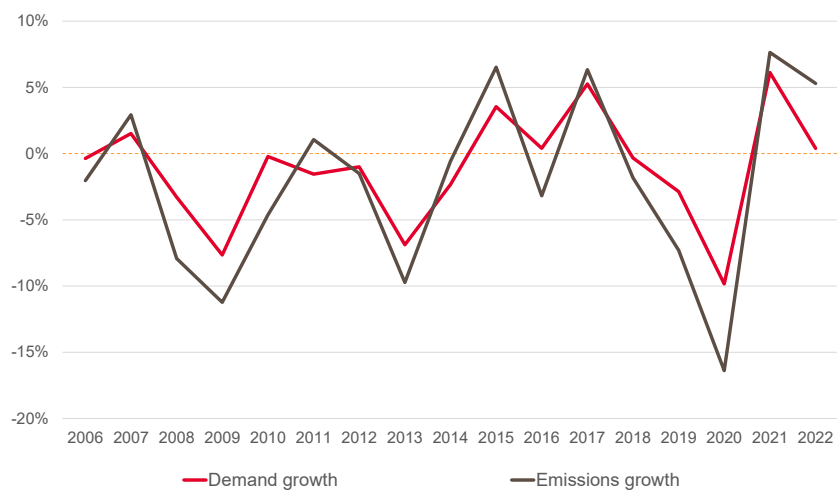
Primary energy demand mix



Electricity generation by source



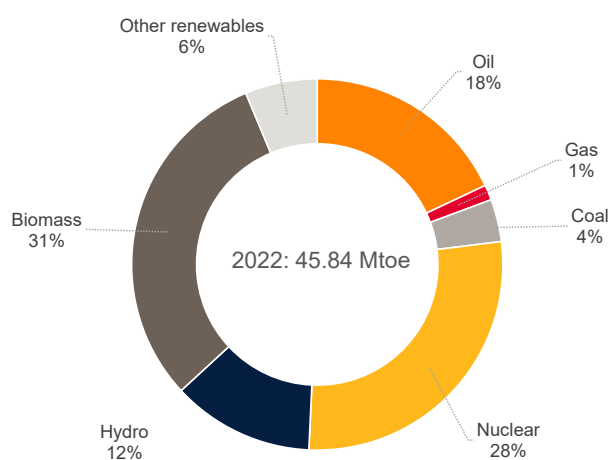
Primary energy demand and CO₂ emissions growth



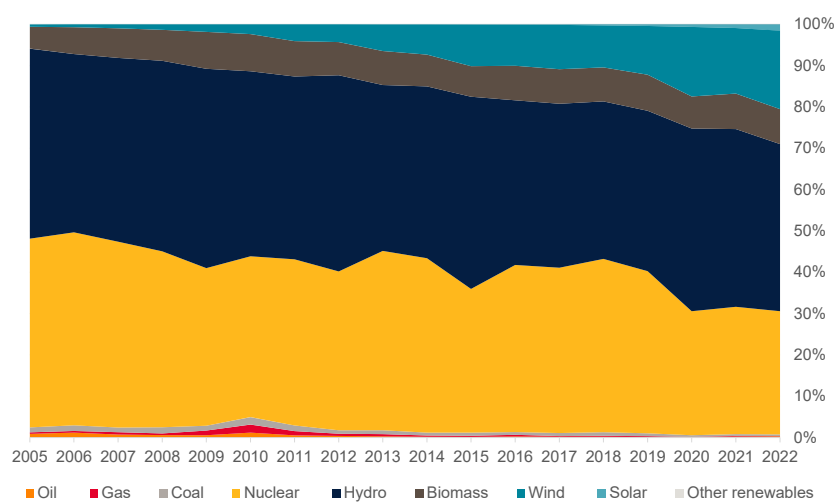
Sweden (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	49.1	47.8	44.1	47.5	48.8	49.8	48.6	43.9	47.2	45.8	100.0
Oil	11.7	11.4	8.6	10.0	9.8	10.7	9.9	8.4	9.3	8.7	19.0
Gas	1.0	0.8	0.7	0.8	0.9	1.0	1.0	1.3	1.2	0.6	1.4
Coal	2.2	2.1	2.1	2.1	2.0	2.2	2.0	1.5	1.7	1.8	3.9
Nuclear	17.3	16.9	14.7	16.4	17.1	17.9	17.2	12.8	13.8	13.4	29.3
Hydro	5.3	5.5	6.5	5.3	5.6	5.4	5.6	6.2	6.4	6.0	13.1
Biomass	11.4	11.3	11.8	12.3	13.2	12.5	13.2	13.1	14.5	14.8	32.4
Other renewables	0.8	1.0	1.4	1.3	1.5	1.5	1.8	2.5	2.5	3.0	6.7
Electricity balance of trade*	-0.7	-1.1	-1.7	-0.8	-1.4	-1.3	-2.1	-1.9	-2.0	-2.7	-5.8
Total final consumption, by source	33.3	32.4	32.8	33.6	33.9	33.2	33.0	32.0	33.3	32.1	100.0
Oil	10.2	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.7	23.9
Gas	0.6	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.6	0.5	1.4
Coal	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.1	1.2	1.2	3.8
Electricity	10.8	10.5	10.7	11.0	10.9	11.0	10.7	10.6	11.0	10.5	32.5
Heat	4.5	4.2	4.2	4.4	4.4	4.4	4.3	4.1	4.7	4.6	14.2
Biomass	6.0	6.1	6.4	6.7	6.9	6.9	6.9	7.4	7.4	7.8	24.2
Electricity generation, by source	13.2	13.2	13.9	13.4	14.1	14.1	14.5	14.1	14.8	14.9	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Gas	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Coal	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Nuclear	5.7	5.6	4.8	5.4	5.6	5.9	5.7	4.2	4.6	4.4	29.8
Hydro	5.3	5.5	6.5	5.3	5.6	5.4	5.6	6.2	6.4	6.0	40.4
Biomass	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.1	1.3	1.3	8.5
Wind	0.8	1.0	1.4	1.3	1.5	1.4	1.7	2.4	2.3	2.8	19.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	1.5
Other renewables	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	33.3	32.4	32.8	33.6	33.9	33.2	33.0	32.0	33.3	32.1	100.0
Industry	11.7	11.5	11.7	11.6	11.7	11.6	11.5	11.7	11.7	11.3	35.3
Transport	7.3	7.3	7.5	7.5	7.7	7.5	7.4	7.0	7.2	7.4	23.0
Residential/Commercial	11.4	11.0	11.2	11.6	11.5	11.4	11.2	11.0	11.9	11.4	35.5
Oil final consumption, by sector	10.2	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.7	100.0
Industry	1.1	1.0	0.9	1.0	1.0	1.0	0.9	0.8	0.9	0.8	10.6
Transport	6.4	6.2	6.3	6.0	5.9	5.6	5.6	5.1	5.2	5.1	66.1
Residential/Commercial	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	3.3
Natural gas final consumption, by sector	0.6	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.6	0.5	100.0
Industry	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.3	55.4
Transport	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	18.1
Refined products consumption	10.2	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.7	100.0
Gasoline	2.8	2.7	2.6	2.5	2.4	2.2	2.2	2.0	2.0	2.0	25.8
Diesel	4.4	4.3	4.4	4.2	4.2	4.0	4.0	3.9	3.9	3.7	48.3
Heating Oil	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	2.8
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	2.3
LPG	1.1	1.0	1.0	1.2	1.1	0.9	1.0	0.9	1.0	0.8	9.8
Imports	25.3	27.8	29.1	31.8	30.5	30.6	26.2	27.8	26.8	27.3	100.0
Oil	24.4	27.1	28.4	31.0	29.6	29.6	25.3	26.5	25.6	26.6	97.6
Gas	1.0	0.8	0.7	0.8	0.9	1.0	1.0	1.3	1.2	0.6	2.4
Gasoline	1.3	1.9	1.8	2.0	1.6	0.8	0.6	0.9	0.9	1.2	4.5
Diesel	2.2	2.4	2.6	3.1	2.9	2.3	2.6	3.4	2.7	3.0	11.0
Heating Oil	0.8	0.4	0.7	2.0	1.6	1.8	0.8	0.8	0.6	0.5	1.9
Aviation Jet	0.6	0.9	0.8	1.0	1.0	1.1	1.0	0.7	0.2	0.7	2.6
LPG	1.1	1.2	1.1	1.5	1.3	1.2	1.4	1.2	1.2	1.0	3.6
Exports	10.2	12.9	15.5	17.2	18.3	17.4	11.8	13.5	17.1	16.3	100.0
Oil	10.2	12.9	15.5	17.2	18.3	17.4	11.8	13.5	17.0	16.3	99.9
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gasoline	2.1	3.7	4.1	3.8	4.0	3.8	2.0	2.7	3.9	4.5	27.4
Diesel	3.6	4.9	5.6	5.4	7.0	6.4	3.9	4.5	6.7	6.1	37.4
Heating Oil	2.3	1.8	2.8	4.5	4.1	4.3	3.2	3.0	2.7	3.7	22.6
Aviation Jet	0.0	0.1	0.0	0.1	0.0	0.1	0.2	0.0	0.2	0.1	0.7
LPG	0.3	0.4	0.6	0.8	0.7	0.6	0.8	0.7	0.9	0.7	4.1
CO₂ Emissions (Million tons CO₂)	40.7	39.3	39.0	39.1	39.0	36.4	35.7	34.2	36.8	37.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	90.6	85.4	81.1	79.6	77.4	70.8	68.1	67.3	69.1	67.6	-
Final energy intensity (toe/million \$15ppp)	69.5	66.2	64.5	63.9	62.4	60.5	58.7	59.5	58.9	56.2	-
Total energy intensity (toe/million \$15ppp)	109.4	103.8	91.6	96.7	96.9	97.0	92.8	86.4	88.7	83.8	-

*Heat is included

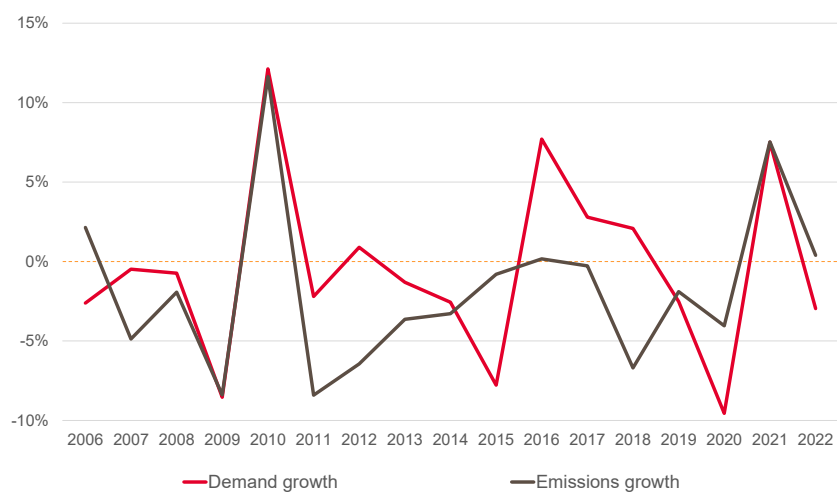
Primary energy demand mix



Electricity generation by source



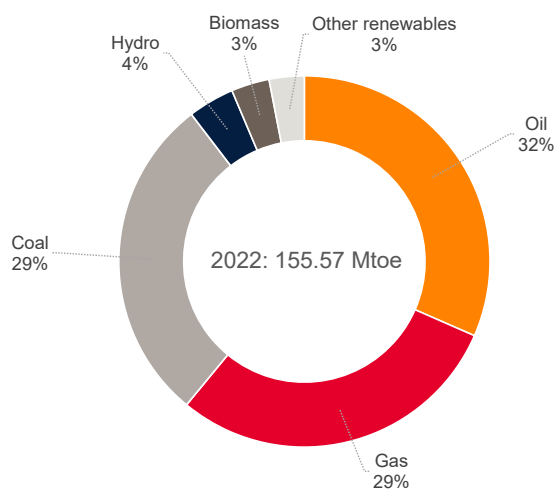
Primary energy demand and CO₂ emissions growth



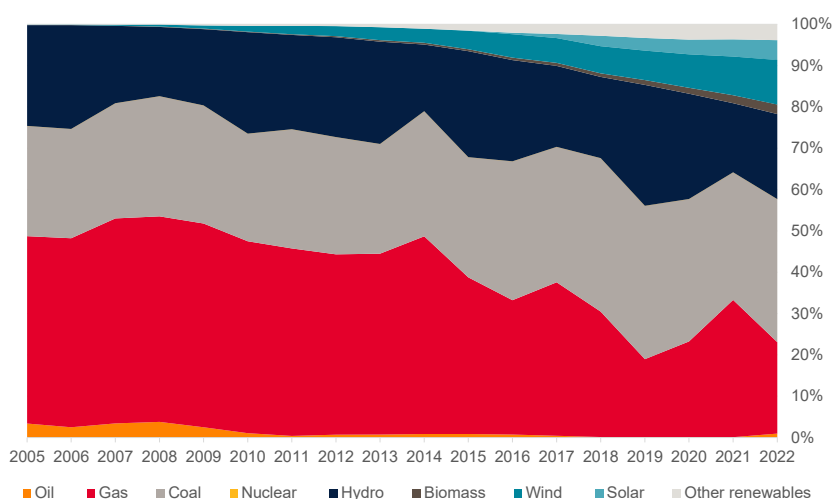
Turkey (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	113.6	119.4	129.0	137.1	147.3	144.8	146.7	147.4	159.9	155.6	100.0
Oil	32.1	33.2	39.1	42.8	45.2	42.9	43.5	42.6	44.5	45.1	29.0
Gas	37.6	40.2	39.4	38.3	44.2	41.0	37.0	39.7	49.1	42.0	27.0
Coal	30.3	33.4	34.5	38.3	40.1	40.8	41.9	40.0	41.1	40.9	26.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.1	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8	5.8	3.7
Biomass	3.9	3.5	3.2	3.1	3.0	3.2	3.4	3.8	4.4	4.8	3.1
Other renewables	0.6	0.7	1.0	1.4	1.8	2.4	2.7	3.1	3.9	4.4	2.8
Electricity balance of trade*	4.0	4.8	6.1	7.3	8.0	9.2	10.5	11.5	12.0	12.6	8.1
Total final consumption, by source	87.8	88.3	95.8	100.3	107.6	105.6	106.6	109.9	117.7	113.9	100.0
Oil	31.5	31.2	35.4	38.2	40.7	40.1	40.1	40.4	41.9	41.9	36.8
Gas	18.9	19.4	21.2	21.5	24.8	24.6	25.6	26.5	29.7	27.8	24.4
Coal	13.4	13.4	14.2	14.7	14.8	12.7	12.8	14.3	15.2	13.3	11.7
Electricity	16.9	17.7	18.4	19.6	21.1	21.9	21.8	22.2	24.3	24.2	21.3
Heat	3.5	3.5	3.7	3.6	3.7	3.8	3.8	3.9	3.9	3.9	3.4
Biomass	3.7	3.3	2.9	2.7	2.5	2.5	2.5	2.6	2.7	2.8	2.5
Electricity generation, by source	20.7	21.7	22.5	23.6	25.6	26.2	26.1	26.4	28.8	28.0	100.0
Oil	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.3	1.0
Gas	9.0	10.4	8.5	7.7	9.5	8.0	4.9	6.1	9.6	6.2	22.1
Coal	5.5	6.6	6.6	7.9	8.4	9.7	9.7	9.1	8.9	9.7	34.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.1	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8	5.8	20.6
Biomass	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	2.3
Wind	0.6	0.7	1.0	1.3	1.5	1.7	1.9	2.1	2.7	3.0	10.8
Solar	0.0	0.0	0.0	0.1	0.2	0.7	0.8	0.9	1.2	1.3	4.8
Other renewables	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.0	1.1	3.8
Total final consumption, by sector	87.8	88.3	95.8	100.3	107.6	105.6	106.6	109.9	117.7	113.9	100.0
Industry	26.3	27.3	28.4	28.6	34.8	35.0	32.9	35.0	39.1	37.8	33.2
Transport	19.5	20.7	24.2	26.7	27.9	28.2	28.1	26.5	29.9	29.6	26.0
Residential/Commercial	30.4	30.2	32.4	33.1	35.7	33.1	35.5	36.9	37.8	35.4	31.0
Oil final consumption, by sector	31.5	31.2	35.4	38.2	40.7	40.1	40.1	40.4	41.9	41.9	100.0
Industry	1.0	0.8	1.0	0.8	4.4	4.4	3.4	4.1	3.4	3.6	8.5
Transport	19.0	20.4	23.9	26.4	27.6	27.7	26.3	26.3	29.6	29.3	69.9
Residential/Commercial	1.0	1.0	1.0	0.9	1.2	1.0	1.0	0.9	0.9	0.8	2.0
Natural gas final consumption, by sector	18.9	19.4	21.2	21.5	24.8	24.6	25.6	26.5	29.7	27.8	100.0
Industry	8.2	8.8	9.0	8.6	10.3	9.7	9.2	9.3	11.0	10.3	37.1
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	10.4	10.1	11.7	12.1	13.9	13.7	15.6	16.4	17.7	16.5	59.5
Refined products consumption	31.5	31.2	35.4	38.2	40.7	40.1	40.1	40.4	41.9	41.9	100.0
Gasoline	2.0	2.0	2.2	2.3	2.4	2.3	2.4	2.4	3.0	3.3	7.8
Diesel	17.3	18.1	20.3	22.1	23.9	23.7	23.6	23.2	25.6	24.8	59.3
Heating Oil	0.7	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.3
Aviation Jet	0.4	1.0	1.3	1.4	1.3	1.3	1.2	0.7	0.9	1.1	2.5
LPG	4.2	4.2	4.4	4.7	4.6	4.7	4.7	4.4	4.4	4.3	10.3
Imports	77.3	81.9	89.8	89.4	99.5	91.3	90.8	88.0	99.5	100.0	100.0
Oil	40.0	41.3	49.9	51.2	54.0	49.9	53.6	48.4	51.2	55.0	55.0
Gas	37.3	40.6	39.9	38.2	45.5	41.4	37.2	39.6	48.3	45.0	45.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	12.2	13.3	12.8	13.3	14.9	15.3	11.5	9.1	11.2	11.0	11.0
Heating Oil	0.7	1.1	1.6	1.7	2.1	2.4	2.0	2.0	1.6	2.3	2.3
Aviation Jet	0.6	0.9	0.2	0.4	0.2	0.5	0.4	0.1	0.2	0.5	0.5
LPG	3.4	3.5	3.8	3.8	3.8	3.7	3.5	3.4	3.5	3.6	3.6
Exports	9.1	7.7	8.3	7.2	7.4	5.6	9.3	8.2	7.9	10.2	100.0
Oil	8.5	7.2	7.7	6.6	6.9	5.1	8.7	7.8	7.6	9.7	95.3
Gas	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.3	0.5	4.7
Gasoline	2.7	2.2	3.3	3.1	3.4	2.6	3.1	2.0	1.8	2.1	20.5
Diesel	0.1	0.1	0.1	0.1	0.2	0.1	1.4	2.7	2.5	2.5	24.2
Heating Oil	1.9	2.6	2.5	1.6	1.5	1.1	2.1	0.2	1.2	1.5	14.9
Aviation Jet	2.9	1.0	0.3	0.2	0.3	0.1	0.7	0.6	0.0	0.3	3.1
LPG	0.1	0.1	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.5	4.5
CO₂ Emissions (Million tons CO₂)	296.1	319.0	331.0	351.4	391.7	388.5	379.7	379.6	411.7	400.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	163.0	167.3	163.7	168.2	174.4	168.0	162.7	159.8	156.1	143.9	-
Final energy intensity (toe/million \$15ppp)	44.4	43.4	43.9	44.1	45.7	43.6	43.4	43.5	42.5	38.8	-
Total energy intensity (toe/million \$15ppp)	62.5	62.6	63.8	65.6	65.6	62.6	62.9	62.0	60.6	55.9	-

*Heat is included

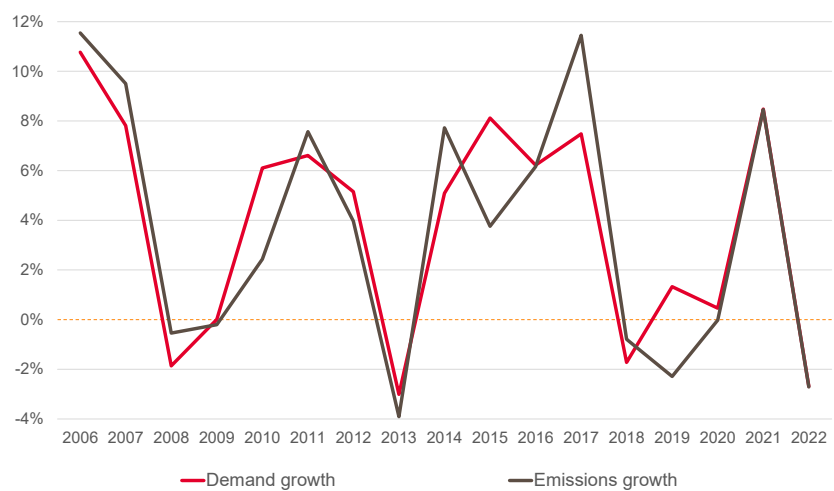
Primary energy demand mix



Electricity generation by source



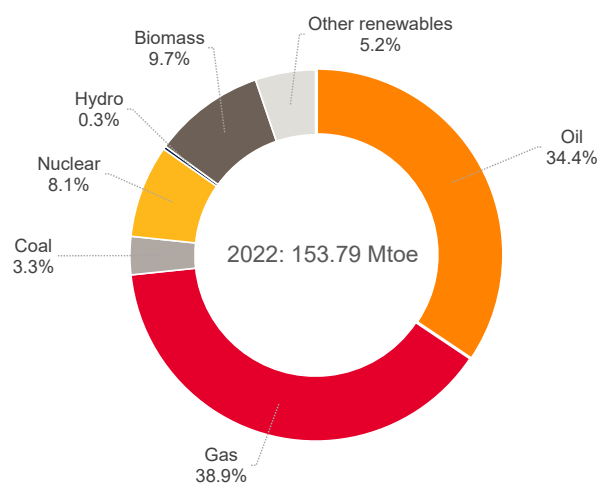
Primary energy demand and CO₂ emissions growth



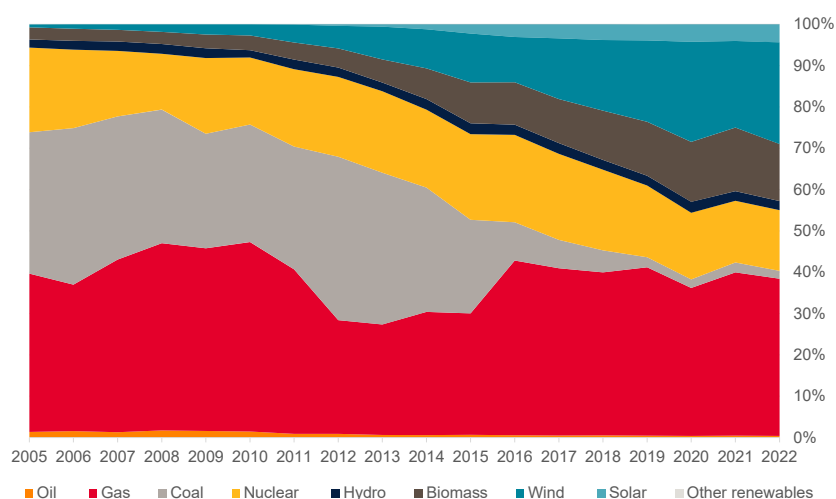
United Kingdom (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	190.0	179.0	180.9	178.3	175.5	173.7	167.8	153.9	159.0	153.8	100.0
Oil	57.1	58.3	60.2	61.2	61.7	60.7	58.7	49.3	51.7	53.0	34.5
Gas	65.8	59.9	61.9	69.1	67.3	66.7	65.6	61.9	65.7	60.0	39.0
Coal	37.3	30.2	23.9	12.2	9.9	8.3	5.9	5.5	5.7	5.1	3.3
Nuclear	18.4	16.6	18.3	18.7	18.3	17.0	14.6	13.1	12.0	12.4	8.1
Hydro	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.3
Biomass	7.1	8.5	10.0	10.9	11.2	12.8	13.9	14.3	14.8	15.0	9.8
Other renewables	2.6	3.1	4.1	4.1	5.3	6.0	6.6	7.6	6.6	8.1	5.3
Electricity balance of trade*	1.3	1.8	1.9	1.6	1.3	1.7	1.9	1.6	2.2	-0.4	-0.3
Total final consumption, by source	130.5	123.1	127.0	128.6	128.0	128.4	125.7	115.0	121.1	115.5	100.0
Oil	51.6	52.0	54.0	55.5	56.2	55.1	53.4	44.9	47.3	48.0	41.5
Gas	42.8	36.1	38.3	39.1	38.3	39.2	38.4	37.6	40.6	35.1	30.4
Coal	5.3	5.2	4.8	3.8	3.5	3.3	3.2	3.1	3.2	3.1	2.7
Electricity	27.2	26.1	26.1	26.2	25.8	25.9	25.5	24.1	24.6	23.6	20.5
Heat	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1
Biomass	2.3	2.6	2.6	2.7	2.8	3.5	4.0	4.1	4.1	4.4	3.8
Electricity generation, by source	30.8	29.1	29.2	29.2	29.1	28.7	27.9	26.8	26.5	27.9	100.0
Oil	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Gas	8.2	8.7	8.6	12.3	11.8	11.3	11.3	9.6	10.5	10.6	38.1
Coal	11.3	8.7	6.6	2.7	2.0	1.5	0.7	0.6	0.6	0.5	1.9
Nuclear	6.1	5.5	6.0	6.2	6.0	5.6	4.8	4.3	3.9	4.1	14.7
Hydro	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.6	2.2
Biomass	1.7	2.2	2.9	3.0	3.1	3.4	3.6	3.9	4.1	3.9	13.8
Wind	2.4	2.7	3.5	3.2	4.3	4.9	5.5	6.5	5.5	6.9	24.6
Solar	0.2	0.3	0.6	0.9	1.0	1.1	1.1	1.1	1.1	1.2	4.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	130.5	123.1	127.0	128.6	128.0	128.4	125.7	115.0	121.1	115.5	100.0
Industry	25.8	24.9	25.1	22.9	23.0	23.2	22.6	21.3	21.9	20.8	18.0
Transport	39.1	39.7	40.5	41.4	41.6	41.4	41.2	33.1	36.2	37.8	32.8
Residential/Commercial	57.6	50.5	53.0	55.0	53.7	54.6	53.3	52.8	56.1	50.6	43.8
Oil final consumption, by sector	51.6	52.0	54.0	55.5	56.2	55.1	53.4	44.9	47.3	48.0	100.0
Industry	3.7	3.7	3.8	2.1	2.4	2.4	2.0	2.0	2.2	2.1	4.4
Transport	37.7	38.1	39.2	40.0	40.2	39.7	39.0	31.1	34.4	35.6	74.2
Residential/Commercial	3.5	3.6	3.7	5.0	4.9	5.0	4.8	4.8	4.9	4.9	10.1
Natural gas final consumption, by sector	42.8	36.1	38.3	39.1	38.3	39.2	38.4	37.6	40.6	35.1	100.0
Industry	8.1	7.6	7.6	7.8	8.0	8.1	8.0	7.3	7.6	7.0	19.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	34.3	27.9	30.2	30.9	29.9	30.7	29.9	29.9	32.6	27.7	78.9
Refined products consumption	51.6	52.0	54.0	55.5	56.2	55.1	53.4	44.9	47.3	48.0	100.0
Gasoline	13.2	13.0	12.7	12.6	12.4	12.2	12.3	9.6	10.7	11.4	23.8
Diesel	26.4	27.1	28.7	29.7	30.1	29.9	28.8	23.7	26.4	26.4	55.1
Heating Oil	0.2	0.3	0.3	0.3	0.5	0.3	0.2	0.1	0.1	0.1	0.3
Aviation Jet	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.4	0.3	0.7	1.4
LPG	2.5	2.6	3.1	3.2	3.2	3.2	3.1	2.8	2.8	2.8	5.8
Imports	131.2	122.3	123.6	127.1	130.3	130.4	126.1	102.6	111.7	125.2	100.0
Oil	89.6	85.4	85.2	86.3	90.2	90.4	86.6	65.6	68.3	77.4	61.8
Gas	41.6	36.9	38.3	40.8	40.0	40.0	39.6	37.0	43.4	47.8	38.2
Gasoline	4.7	3.7	4.1	4.1	3.4	3.6	3.1	2.9	2.9	3.1	2.5
Diesel	11.2	13.1	15.1	17.0	15.9	16.5	15.3	11.8	13.7	14.4	11.5
Heating Oil	0.6	1.0	1.0	1.2	0.9	0.8	0.7	0.7	0.6	0.5	0.4
Aviation Jet	8.4	8.4	8.5	9.0	9.3	9.6	9.7	5.6	4.4	7.8	6.2
LPG	0.5	0.5	0.8	1.0	1.1	1.1	0.9	0.4	0.2	0.2	0.2
Exports	69.4	64.1	70.1	69.7	73.0	75.4	74.6	68.4	60.1	73.4	100.0
Oil	61.7	55.2	58.3	60.9	63.4	69.0	67.6	60.2	54.2	53.4	72.7
Gas	7.7	9.0	11.9	8.9	9.6	6.4	7.0	8.2	5.9	20.0	27.3
Gasoline	11.4	9.1	10.9	11.7	11.5	10.8	9.9	8.1	8.3	9.6	13.0
Diesel	6.3	5.5	4.7	5.0	3.9	4.4	4.3	4.2	3.7	5.0	6.8
Heating Oil	4.5	4.0	3.2	3.2	2.9	2.4	2.1	2.7	2.5	2.6	3.5
Aviation Jet	1.0	1.1	1.2	1.3	1.3	1.6	1.5	1.2	1.2	1.2	1.6
LPG	1.3	1.0	0.9	1.1	1.2	1.0	1.0	0.5	0.6	0.6	0.8
CO₂ Emissions (Million tons CO₂)	455.2	414.6	402.5	381.8	366.8	360.7	345.5	307.6	331.5	322.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	172.2	152.3	144.0	133.6	125.7	121.6	114.5	112.4	112.8	105.5	-
Final energy intensity (toe/million \$15ppp)	46.8	42.7	42.8	42.2	41.1	40.7	39.3	39.7	39.4	36.2	-
Total energy intensity (toe/million \$15ppp)	71.9	65.7	64.7	62.4	60.1	58.5	55.6	56.2	54.1	50.3	-

*Heat is included

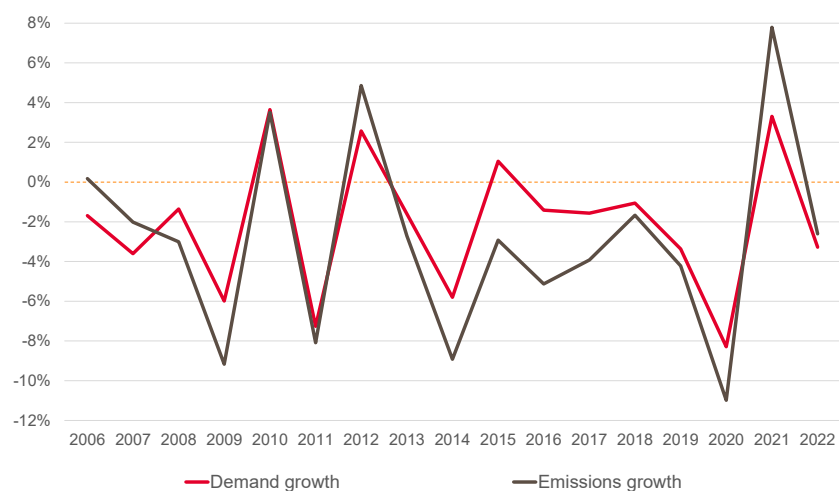
Primary energy demand mix



Electricity generation by source

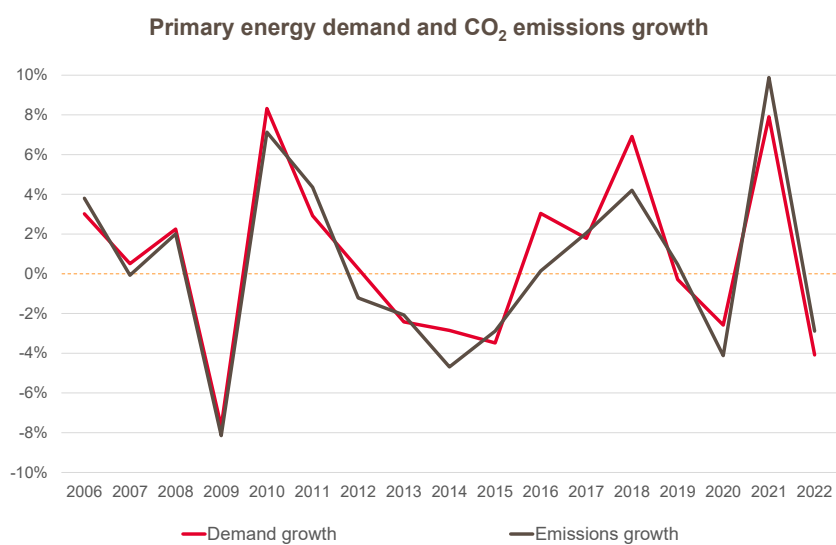
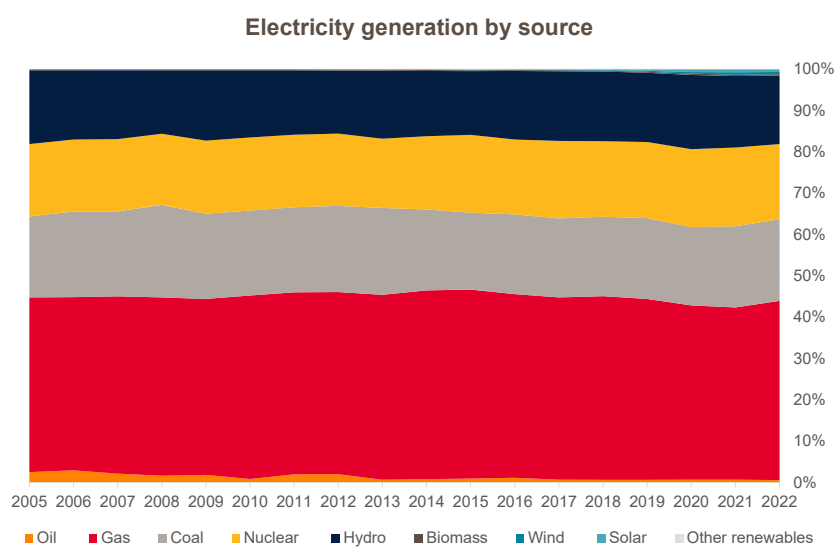
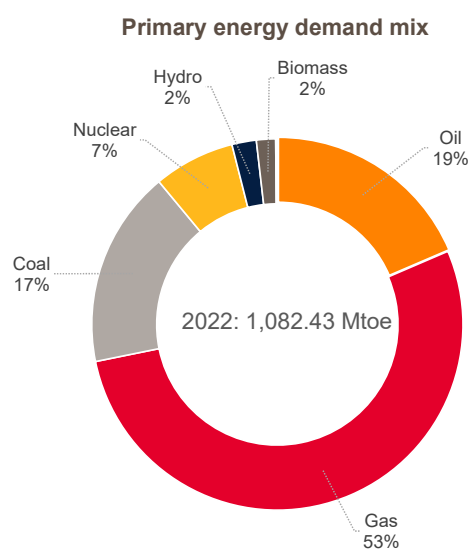


Primary energy demand and CO₂ emissions growth



Former Soviet Union (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	1,023.9	994.8	960.1	989.4	1,007.0	1,076.6	1,073.6	1,045.9	1,128.5	1,082.4	100.0
Oil	199.7	199.4	192.5	210.4	209.7	209.2	209.5	205.1	221.4	200.8	18.6
Gas	534.0	514.5	480.3	491.7	505.8	563.8	554.0	541.6	593.8	576.4	53.2
Coal	190.0	178.0	180.8	179.6	180.5	191.6	195.1	180.3	188.0	186.0	17.2
Nuclear	67.3	70.8	74.5	73.0	75.9	75.8	76.7	76.9	82.4	76.7	7.1
Hydro	21.6	20.6	19.8	21.8	22.2	22.8	22.7	24.0	24.5	22.9	2.1
Biomass	11.9	11.8	12.6	13.8	13.8	14.7	16.4	17.5	18.1	18.1	1.7
Other renewables	0.1	0.2	0.2	0.2	0.3	0.4	0.8	1.4	1.8	1.6	0.1
Electricity balance of trade*	-0.6	-0.6	-0.5	-1.1	-1.1	-1.7	-1.5	-0.8	-1.5	0.0	0.0
Total final consumption, by source	616.6	620.1	604.7	619.6	643.9	673.8	677.9	669.5	717.9	699.0	100.0
Oil	156.4	158.9	159.5	159.2	167.1	172.6	177.2	176.9	185.9	182.3	26.1
Gas	163.4	168.9	165.7	175.8	190.9	209.1	208.3	206.8	232.6	225.6	32.3
Coal	63.5	62.3	57.8	58.6	56.9	58.9	61.3	60.6	61.4	60.8	8.7
Electricity	91.1	90.4	89.7	90.6	93.1	94.4	93.4	92.5	98.5	96.6	13.8
Heat	136.4	133.9	125.7	128.2	128.6	131.0	128.6	123.7	129.9	124.3	17.8
Biomass	5.8	5.7	6.3	7.2	7.3	7.9	9.1	9.1	9.5	9.4	1.3
Electricity generation, by source	132.3	131.8	130.4	132.9	133.6	137.0	137.3	134.4	142.6	139.0	100.0
Oil	0.9	1.1	1.2	1.5	0.9	0.9	0.9	0.9	1.0	0.8	0.6
Gas	59.2	60.2	59.7	59.1	58.9	60.9	60.1	56.7	59.4	60.3	43.4
Coal	27.8	25.8	24.2	25.6	25.6	26.3	26.9	25.5	28.0	27.5	19.8
Nuclear	22.2	23.4	24.6	24.1	25.1	25.0	25.3	25.4	27.2	25.3	18.2
Hydro	21.8	20.8	20.1	22.1	22.5	23.1	23.0	24.1	24.7	23.1	16.6
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.3
Wind	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.8	0.7	0.5
Solar	0.0	0.1	0.1	0.1	0.1	0.2	0.5	0.8	1.0	0.8	0.6
Other renewables	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	616.6	620.1	604.7	619.6	643.9	673.8	677.9	669.5	717.9	699.0	100.0
Industry	214.3	210.2	202.1	212.2	212.7	202.4	206.3	202.0	216.0	210.0	30.0
Transport	94.6	94.6	92.2	91.8	93.2	101.4	103.2	98.7	106.5	108.8	15.6
Residential/Commercial	222.3	227.4	222.1	226.4	240.7	262.6	259.2	252.8	272.6	265.8	38.0
Oil final consumption, by sector	156.4	158.9	159.5	159.2	167.1	172.6	177.2	176.9	185.9	182.3	100.0
Industry	18.7	17.4	19.5	21.1	20.5	11.4	13.0	12.6	13.3	12.9	7.1
Transport	87.0	86.6	84.7	84.2	85.9	90.3	92.6	88.4	95.7	98.3	53.9
Residential/Commercial	12.7	14.1	14.5	13.6	16.8	20.3	20.4	20.3	20.5	21.4	11.7
Natural gas final consumption, by sector	163.4	168.9	165.7	175.8	190.9	209.1	208.3	206.8	232.6	225.6	100.0
Industry	48.3	49.9	46.4	47.8	50.3	49.8	50.1	47.3	53.6	52.0	23.1
Transport	0.7	1.1	1.1	1.2	1.2	4.9	4.2	4.5	4.6	4.3	1.9
Residential/Commercial	76.3	80.2	79.2	86.7	94.3	105.3	103.4	101.9	114.7	110.8	49.1
Refined products consumption	153.0	158.5	158.9	158.6	166.5	172.6	177.2	176.9	185.9	182.3	100.0
Gasoline	52.4	52.6	51.0	50.7	48.9	50.4	49.6	47.9	52.2	53.9	29.6
Diesel	43.1	45.1	45.9	44.3	47.4	49.6	53.0	52.5	56.1	57.3	31.4
Heating Oil	4.0	3.8	3.6	2.7	3.1	3.3	3.2	2.9	2.7	2.7	1.5
Aviation Jet	6.4	6.0	5.4	5.4	5.9	6.4	6.7	5.2	5.9	5.8	3.2
LPG	18.6	20.6	21.0	21.5	23.5	27.4	29.2	32.8	32.9	32.3	17.7
Imports	104.1	92.5	93.5	84.3	89.5	91.3	92.5	85.5	82.0	60.0	100.0
Oil	48.1	43.2	46.2	40.4	41.7	41.9	38.4	37.7	40.5	28.8	48.0
Gas	56.0	49.3	47.3	43.9	47.8	49.4	54.2	47.8	41.5	31.2	52.0
Gasoline	5.4	6.4	5.5	5.1	4.3	3.8	2.9	3.3	4.0	2.9	4.8
Diesel	7.1	7.5	7.3	8.3	9.0	8.7	8.8	9.9	10.2	8.6	14.4
Heating Oil	0.3	0.3	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.4	0.7
Aviation Jet	0.4	0.4	0.4	0.6	0.7	0.7	0.5	0.3	0.4	0.6	1.0
LPG	1.0	1.1	1.3	1.9	2.2	2.3	2.5	2.6	2.6	2.1	3.5
Exports	752.9	728.3	763.2	760.2	783.5	814.8	834.6	755.7	759.1	685.3	100.0
Oil	508.6	492.2	514.3	503.6	510.1	520.5	526.0	479.2	475.7	490.0	71.5
Gas	244.3	236.1	248.9	256.6	273.3	294.2	308.6	276.5	283.4	195.3	28.5
Gasoline	8.5	8.1	9.2	9.4	8.3	7.9	8.4	9.2	7.6	7.8	1.1
Diesel	51.2	50.4	47.9	45.7	47.3	48.2	47.0	45.9	45.0	47.2	6.9
Heating Oil	71.4	72.6	75.0	57.0	54.5	56.5	55.1	47.5	49.6	46.5	6.8
Aviation Jet	2.4	3.1	3.0	3.0	2.9	3.4	3.0	2.3	2.6	2.5	0.4
LPG	5.8	6.7	6.8	7.9	7.9	8.3	7.5	5.9	5.0	4.7	0.7
CO₂ Emissions (Million tons CO₂)	2,413.5	2,300.3	2,233.9	2,237.1	2,283.2	2,379.1	2,390.4	2,291.9	2,518.4	2,445.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	464.5	440.9	436.1	433.8	432.6	436.8	427.0	420.4	440.7	442.0	-
Final energy intensity (toe/million \$15ppp)	106.3	106.2	104.9	106.8	107.4	107.5	105.0	105.2	107.5	109.1	-
Total energy intensity (toe/million \$15ppp)	197.1	190.7	187.5	191.8	190.8	197.7	191.8	191.8	197.5	195.6	-

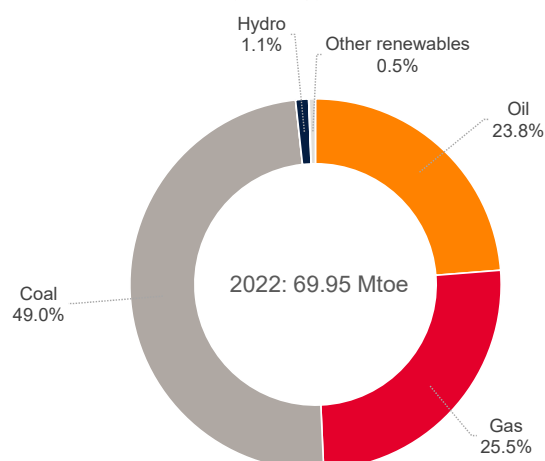
*Heat is included



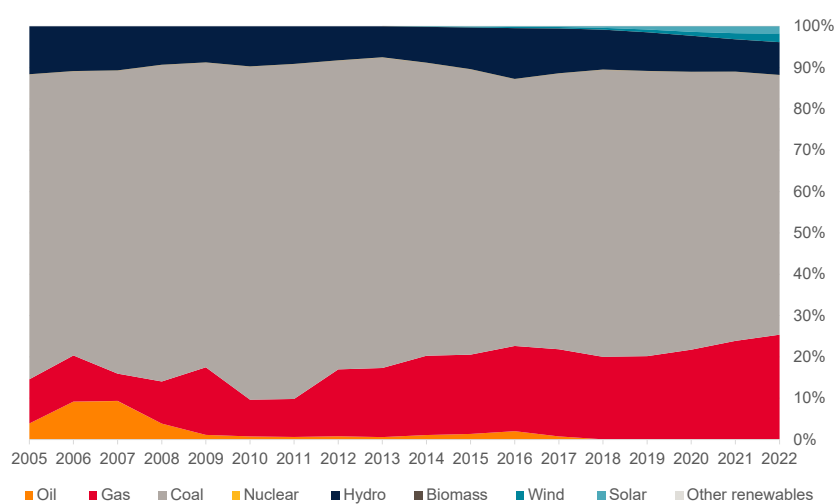
Kazakhstan (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	81.5	65.1	54.8	64.0	65.1	74.2	73.2	65.8	69.7	69.9	100.0
Oil	18.0	12.6	15.9	16.8	15.4	18.4	17.6	12.0	18.2	16.6	23.7
Gas	25.4	14.8	10.6	14.3	14.0	18.6	20.1	20.2	17.0	17.8	25.5
Coal	37.5	37.0	27.3	31.9	35.0	36.4	34.5	32.6	33.5	34.2	48.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.7	0.8	1.0	1.0	0.9	0.9	0.8	0.8	0.8	1.1
Biomass	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5
Electricity balance of trade*	-0.1	-0.1	0.0	-0.1	-0.4	-0.3	-0.0	-0.1	-0.0	0.1	0.2
Total final consumption, by source	43.5	40.6	39.2	39.6	41.0	42.1	39.3	41.2	42.4	45.0	100.0
Oil	13.6	10.4	12.6	13.1	12.6	12.0	11.0	12.6	12.9	13.8	30.7
Gas	2.9	4.7	4.7	5.2	5.6	5.6	5.1	6.5	6.8	7.1	15.9
Coal	15.2	12.9	9.6	9.5	10.2	10.4	9.8	9.5	9.9	11.0	24.5
Electricity	5.7	5.8	5.8	5.8	6.5	6.9	6.2	6.0	6.3	6.3	14.0
Heat	6.1	6.8	6.4	5.9	5.9	7.1	7.1	6.6	6.5	6.7	14.8
Biomass	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1
Electricity generation, by source	8.9	8.2	7.9	8.1	8.9	9.3	9.2	9.5	10.1	10.0	100.0
Oil	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Gas	1.5	1.6	1.5	1.7	1.9	1.8	1.8	2.1	2.4	2.5	25.3
Coal	6.7	5.8	5.5	5.3	5.9	6.4	6.3	6.4	6.6	6.3	62.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.7	0.7	0.8	1.0	1.0	0.9	0.9	0.8	0.8	0.8	7.9
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	0.1	0.1	0.1	0.2	2.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	1.8
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	43.5	40.6	39.2	39.6	41.0	42.1	39.3	41.2	42.4	45.0	100.0
Industry	25.0	18.9	16.7	17.1	17.1	16.3	13.8	13.0	14.2	15.7	34.8
Transport	4.9	5.2	5.5	5.7	5.5	6.3	6.1	7.6	7.9	8.4	18.6
Residential/Commercial	10.7	13.7	14.7	14.3	15.8	16.4	16.4	17.4	18.1	18.6	41.4
Oil final consumption, by sector	13.6	10.4	12.6	13.1	12.6	12.0	11.0	12.6	12.9	13.8	100.0
Industry	5.1	2.0	3.5	4.3	3.7	2.2	1.5	1.7	1.4	1.5	11.1
Transport	4.6	4.7	5.0	5.2	4.9	5.7	5.6	6.4	7.3	7.8	56.3
Residential/Commercial	2.7	2.5	3.0	2.6	2.7	3.1	3.0	3.5	3.2	3.4	24.8
Natural gas final consumption, by sector	2.9	4.7	4.7	5.2	5.6	5.6	5.1	6.5	6.8	7.1	100.0
Industry	1.6	1.8	1.3	1.4	1.9	1.4	1.1	1.4	1.4	1.5	20.8
Transport	0.0	0.3	0.3	0.3	0.3	0.3	0.1	0.9	0.3	0.3	4.4
Residential/Commercial	1.1	2.6	3.1	3.4	3.3	3.5	3.5	3.8	4.8	5.0	70.4
Refined products consumption	10.2	10.1	12.1	12.6	12.0	12.0	11.0	12.6	12.9	13.8	100.0
Gasoline	4.0	4.0	4.4	4.7	4.6	4.8	4.8	4.9	5.3	5.6	40.5
Diesel	3.9	3.9	4.6	5.6	4.9	4.9	3.8	5.5	5.8	6.2	45.1
Heating Oil	0.9	0.8	1.4	0.6	0.7	0.5	0.4	0.5	0.4	0.5	3.7
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.3	0.3	2.3
LPG	0.5	0.5	0.8	0.8	0.9	1.1	1.2	1.0	0.6	0.6	4.6
Imports	14.6	6.6	6.6	7.8	7.6	10.0	14.5	12.0	3.6	2.5	100.0
Oil	10.2	2.9	1.9	2.0	2.1	1.7	0.6	1.0	1.6	0.9	36.1
Gas	4.3	3.7	4.7	5.9	5.5	8.3	13.9	11.0	2.0	1.6	63.9
Gasoline	1.2	1.2	1.4	1.2	1.1	0.6	0.0	0.0	0.4	0.0	1.8
Diesel	0.6	0.6	0.2	0.4	0.5	0.5	0.3	0.7	0.9	0.4	17.8
Heating Oil	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.1	0.2	0.3	0.2	0.0	0.0	0.1	0.1	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
Exports	85.7	89.2	84.5	82.9	96.3	98.5	97.6	92.7	79.9	77.4	100.0
Oil	77.1	72.2	67.2	64.4	73.8	75.5	75.1	75.2	71.5	70.6	91.2
Gas	8.6	17.0	17.3	18.5	22.5	23.0	22.6	17.5	8.5	6.8	8.8
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0
Diesel	1.8	1.8	0.2	0.1	0.1	0.2	0.0	0.1	0.2	0.1	0.1
Heating Oil	2.4	2.6	1.9	1.8	2.1	2.9	2.6	1.6	1.5	1.7	2.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	1.8	2.4	2.2	2.1	2.3	2.1	2.1	2.1	1.6	1.2	1.5
CO₂ Emissions (Million tons CO₂)	251.2	202.8	176.3	191.4	203.7	205.1	195.3	201.7	213.8	218.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	650.1	503.8	432.6	464.7	475.1	459.5	418.8	443.6	452.1	447.4	-
Final energy intensity (toe/million \$15ppp)	110.1	99.4	94.5	94.7	94.0	92.5	82.8	88.8	88.1	90.6	-
Total energy intensity (toe/million \$15ppp)	211.0	161.8	134.4	155.5	151.9	166.2	157.0	144.7	147.4	143.3	-

*Heat is included

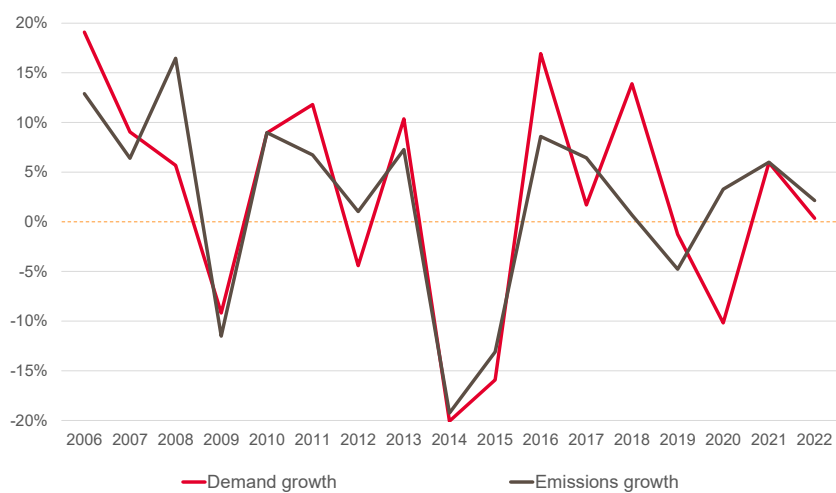
Primary energy demand mix



Electricity generation by source



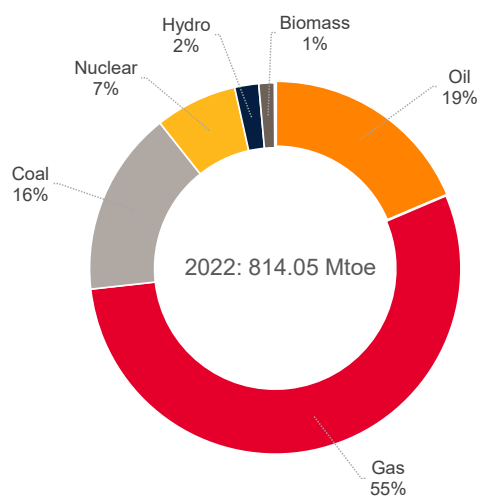
Primary energy demand and CO₂ emissions growth



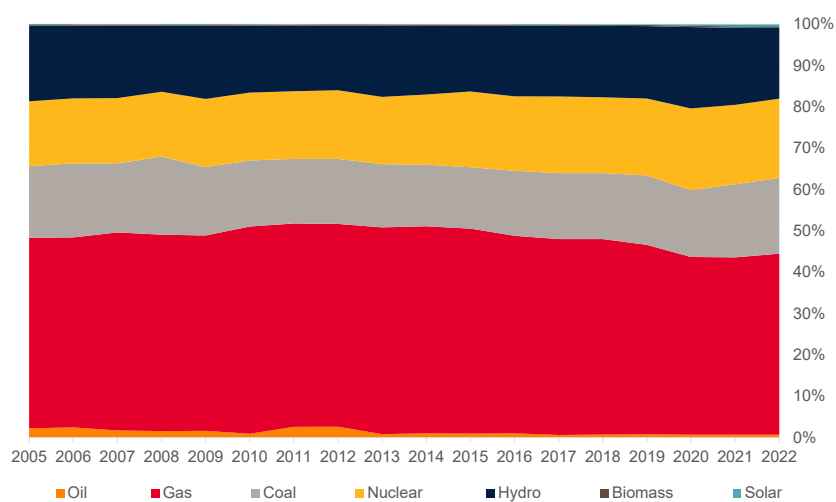
Russia (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	707.2	709.3	695.5	716.8	730.3	775.8	777.3	761.9	825.8	814.0	100.0
Oil	145.1	148.7	139.4	155.2	154.0	148.3	149.4	149.8	158.4	151.5	18.6
Gas	386.2	385.4	364.3	371.3	384.8	428.1	418.1	408.6	458.0	444.8	54.6
Coal	109.0	106.2	119.4	115.8	115.3	121.8	129.4	118.8	122.9	131.3	16.1
Nuclear	45.0	47.1	50.9	51.2	52.9	53.3	54.5	56.2	57.9	58.2	7.2
Hydro	15.6	15.1	14.4	15.9	15.9	16.4	16.7	18.3	18.4	17.0	2.1
Biomass	7.2	7.1	7.7	8.1	7.8	8.6	10.2	10.3	10.8	11.1	1.4
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.5	0.5	0.1
Electricity balance of trade*	-0.8	-0.3	-0.6	-0.9	-0.5	-0.7	-1.2	-0.4	-1.2	-0.4	-0.0
Total final consumption, by source	415.6	432.7	431.7	442.2	465.3	489.7	497.6	486.0	527.0	522.4	100.0
Oil	108.4	114.3	114.4	113.0	120.6	124.4	130.2	129.5	136.9	134.1	25.7
Gas	100.7	111.3	114.1	122.3	136.3	155.3	154.9	148.5	172.1	169.9	32.5
Coal	32.2	33.7	35.6	35.8	35.2	35.5	38.9	38.9	38.6	40.7	7.8
Electricity	61.8	61.5	61.2	62.2	63.6	63.4	63.1	62.6	66.8	68.5	13.1
Heat	109.9	109.5	103.3	105.3	106.1	107.2	105.2	101.1	107.1	103.6	19.8
Biomass	2.6	2.5	3.1	3.5	3.4	4.0	5.3	5.3	5.5	5.7	1.1
Electricity generation, by source	91.1	91.5	91.8	93.8	94.1	95.9	96.4	93.7	99.6	100.2	100.0
Oil	0.7	0.9	0.9	0.9	0.6	0.7	0.7	0.6	0.7	0.7	0.7
Gas	45.6	45.9	45.6	44.9	44.6	45.4	44.2	40.3	42.8	43.9	43.8
Coal	13.9	13.6	13.6	14.7	15.0	15.3	16.2	15.1	17.6	18.4	18.3
Nuclear	14.8	15.5	16.8	16.9	17.5	17.6	18.0	18.6	19.1	19.2	19.2
Hydro	15.7	15.2	14.6	16.1	16.1	16.6	16.9	18.4	18.6	17.2	17.1
Biomass	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	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	415.6	432.7	431.7	442.2	465.3	489.7	497.6	486.0	527.0	522.4	100.0
Industry	146.0	150.9	150.0	159.9	161.0	150.0	156.0	153.5	164.3	164.8	31.5
Transport	64.9	66.0	64.8	62.9	63.8	68.2	69.4	65.1	70.9	73.6	14.1
Residential/Commercial	143.9	151.9	151.0	152.0	164.2	185.2	183.8	174.3	190.7	189.2	36.2
Oil final consumption, by sector	108.4	114.3	114.4	113.0	120.6	124.4	130.2	129.5	136.9	134.1	100.0
Industry	12.1	13.8	14.5	16.0	15.9	7.9	10.2	9.7	10.6	10.2	7.6
Transport	59.2	60.1	59.4	57.4	58.7	61.5	63.7	59.8	65.2	67.7	50.5
Residential/Commercial	9.2	10.7	10.5	9.8	12.9	15.6	16.0	15.6	16.0	16.7	12.4
Natural gas final consumption, by sector	100.7	111.3	114.1	122.3	136.3	155.3	154.9	148.5	172.1	169.9	100.0
Industry	33.7	37.2	35.5	36.7	38.3	38.3	38.5	35.6	41.3	40.8	24.0
Transport	0.0	0.1	0.1	0.2	0.3	1.6	0.6	0.5	0.6	0.6	0.3
Residential/Commercial	35.8	41.7	44.5	49.7	56.5	70.3	69.7	65.8	76.3	75.3	44.3
Refined products consumption	108.2	114.2	114.3	113.0	120.6	124.3	130.2	129.5	136.9	134.1	100.0
Gasoline	37.4	38.2	37.1	36.3	35.2	36.6	35.9	34.1	37.3	38.6	28.8
Diesel	23.6	26.6	27.3	24.8	28.0	29.5	33.4	31.9	34.7	36.8	27.5
Heating Oil	2.0	1.8	1.0	0.9	1.3	1.6	1.6	1.3	1.2	1.1	0.8
Aviation Jet	6.1	5.7	5.1	4.9	5.4	5.7	5.9	4.8	5.4	5.3	3.9
LPG	14.9	16.5	16.5	16.4	18.0	21.4	22.8	27.2	27.5	28.4	21.2
Imports	9.4	10.8	12.7	9.3	9.1	9.3	8.7	8.9	9.1	10.2	100.0
Oil	2.7	3.7	5.5	1.9	1.8	1.6	1.2	1.5	1.3	1.9	19.0
Gas	6.7	7.1	7.2	7.3	7.2	7.7	7.5	7.4	7.8	8.3	81.0
Gasoline	0.6	1.1	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.0	0.0	0.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	1.4
Aviation Jet	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.8
Exports	542.7	514.1	547.7	555.5	568.8	593.2	613.8	555.2	559.7	508.3	100.0
Oil	368.6	358.4	382.8	380.3	381.3	391.8	400.2	358.9	357.2	371.2	73.0
Gas	174.1	155.8	165.0	175.1	187.6	201.4	213.5	196.2	202.5	137.1	27.0
Gasoline	4.6	3.8	5.0	5.5	4.6	4.4	5.4	5.5	4.1	4.2	0.8
Diesel	43.2	41.0	39.1	38.8	41.3	42.8	41.2	40.8	39.0	41.1	8.1
Heating Oil	61.6	63.3	65.4	49.7	47.1	47.9	47.9	42.6	44.3	41.2	8.1
Aviation Jet	1.9	2.5	2.4	2.5	2.3	2.7	2.5	2.0	2.5	2.4	0.5
LPG	3.4	3.7	4.1	5.4	4.9	5.4	4.9	3.4	3.0	3.1	0.6
CO₂ Emissions (Million tons CO₂)	1,603.1	1,585.1	1,591.2	1,571.3	1,615.2	1,689.0	1,716.6	1,626.8	1,792.5	1,789.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	448.9	440.7	451.3	444.7	449.0	456.7	454.2	442.3	464.9	473.8	-
Final energy intensity (toe/million \$15ppp)	101.1	104.5	105.6	107.9	110.0	110.9	110.0	108.6	112.3	115.1	-
Total energy intensity (toe/million \$15ppp)	198.1	197.2	197.2	202.9	203.0	209.8	205.6	207.1	214.2	215.6	-

*Heat is included

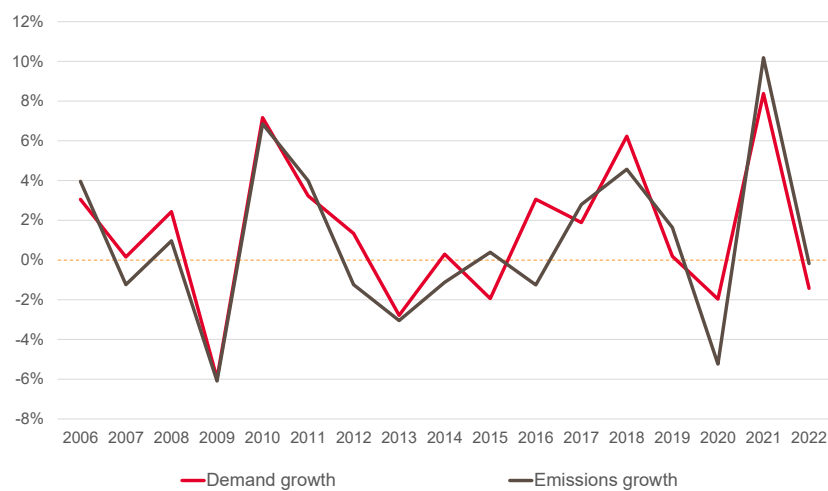
Primary energy demand mix



Electricity generation by source

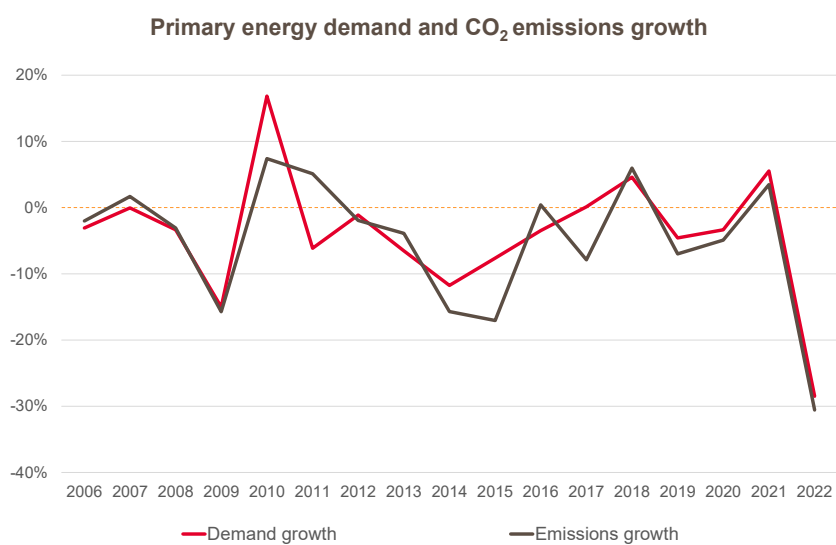
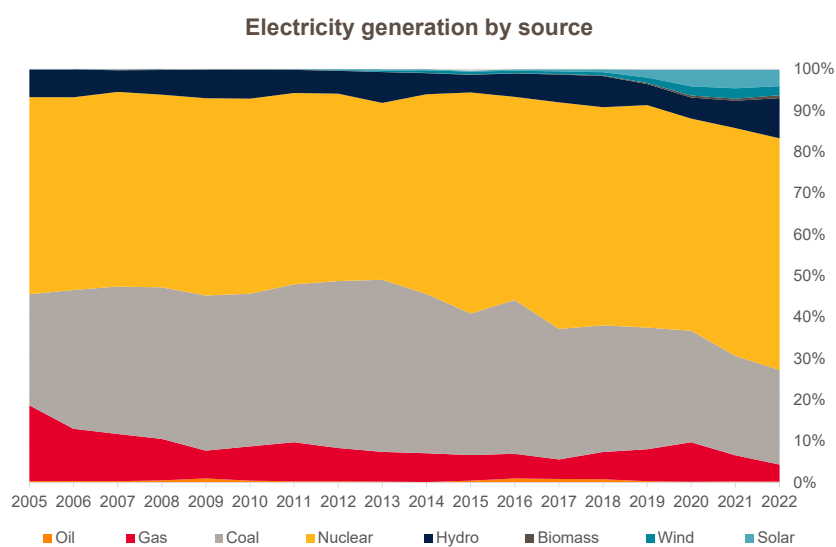
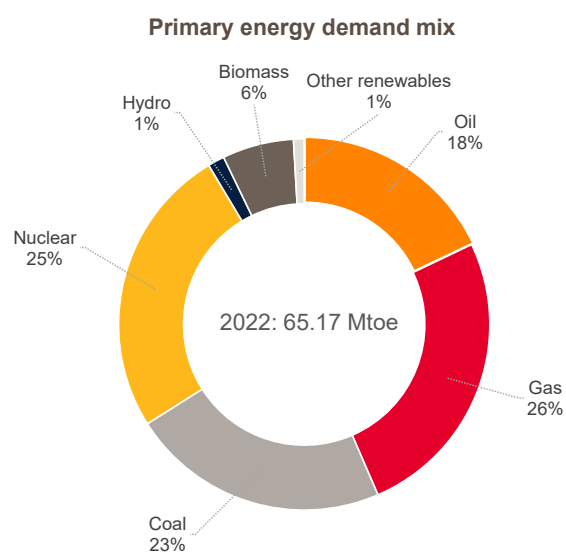


Primary energy demand and CO₂ emissions growth



Ukraine (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	113.7	100.3	92.7	89.4	89.5	93.6	89.4	86.4	91.1	65.2	100.0
Oil	10.1	10.8	10.7	11.3	13.0	13.7	13.7	14.3	14.9	11.7	17.9
Gas	39.5	33.4	26.1	25.6	24.5	25.7	23.4	23.8	22.3	16.7	25.6
Coal	39.1	30.2	29.9	27.5	25.7	28.0	25.9	22.8	25.4	14.7	22.5
Nuclear	21.7	23.0	22.8	21.1	22.3	22.0	21.6	19.9	22.4	16.5	25.4
Hydro	1.2	0.7	0.5	0.7	0.8	0.9	0.6	0.7	0.9	0.9	1.5
Biomass	1.9	1.9	2.1	2.8	3.0	3.2	3.4	4.3	4.4	4.1	6.2
Other renewables	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.8	0.9	0.6	0.9
Electricity balance of trade*	0.2	0.0	0.5	0.3	0.1	0.0	0.3	-0.2	-0.1	-0.0	-0.0
Total final consumption, by source	72.6	63.0	53.3	54.6	51.9	53.5	51.2	50.1	52.2	38.3	100.0
Oil	11.8	10.1	9.4	9.6	9.8	10.4	10.4	9.6	10.2	8.5	22.1
Gas	22.7	18.7	14.6	14.3	13.6	13.6	12.0	12.6	12.4	9.9	25.7
Coal	13.5	13.1	10.3	10.6	8.8	10.0	9.6	8.9	9.9	5.9	15.5
Electricity	11.8	11.0	10.2	10.1	10.0	10.2	10.0	9.7	10.4	7.1	18.5
Heat	11.7	8.9	7.5	8.3	7.8	7.5	7.2	7.2	7.0	4.9	12.8
Biomass	1.1	1.2	1.3	1.7	1.8	1.9	2.1	2.2	2.2	2.1	5.4
Electricity generation, by source	16.7	15.7	14.1	14.2	13.4	13.7	13.3	12.8	13.4	9.7	100.0
Oil	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2
Gas	1.2	1.1	0.9	0.8	0.6	0.9	1.0	1.2	0.9	0.4	4.1
Coal	7.0	6.1	4.8	5.3	4.2	4.2	3.9	3.4	3.2	2.2	22.9
Nuclear	7.2	7.6	7.5	7.0	7.4	7.3	7.1	6.6	7.4	5.5	56.1
Hydro	1.2	0.8	0.6	0.8	0.9	1.0	0.7	0.7	0.9	0.9	9.7
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.7
Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	2.2
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.6	0.4	4.0
Other renewables	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	72.6	63.0	53.3	54.6	51.9	53.5	51.2	50.1	52.2	38.3	100.0
Industry	27.0	24.8	20.6	20.1	18.9	20.3	19.6	19.2	20.3	13.0	34.0
Transport	9.5	8.0	7.1	7.7	7.9	8.0	8.3	7.3	7.7	6.5	16.9
Residential/Commercial	29.2	25.0	20.5	22.0	20.9	21.0	18.9	18.5	18.8	14.8	38.6
Oil final consumption, by sector	11.8	10.1	9.4	9.6	9.8	10.4	10.4	9.6	10.2	8.5	100.0
Industry	1.0	0.9	0.8	0.2	0.4	0.4	0.5	0.6	0.7	0.6	6.8
Transport	8.7	7.3	6.5	7.1	7.3	7.3	7.6	6.7	7.1	6.1	71.9
Residential/Commercial	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	1.6
Natural gas final consumption, by sector	22.7	18.7	14.6	14.3	13.6	13.6	12.0	12.6	12.4	9.9	100.0
Industry	4.4	3.3	2.8	2.5	2.7	2.9	2.7	2.8	2.8	2.2	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	14.1	12.5	9.4	9.9	9.6	9.6	7.7	7.4	7.3	5.8	58.4
Refined products consumption	11.8	10.1	9.4	9.6	9.8	10.4	10.4	9.6	10.2	8.5	100.0
Gasoline	4.2	3.3	2.5	2.3	2.1	1.9	1.7	1.8	1.9	1.7	19.5
Diesel	6.1	5.3	5.2	5.1	5.2	5.4	5.8	5.2	5.5	4.8	56.9
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	0.0	0.0	0.0	0.0	0.0
LPG	0.9	1.0	0.9	1.5	1.7	1.9	2.1	1.5	1.6	1.2	14.7
Imports	30.7	24.0	21.4	18.4	22.1	19.9	21.2	19.3	19.1	13.1	100.0
Oil	8.1	8.3	8.1	9.6	10.8	11.5	11.7	11.9	12.7	9.4	71.7
Gas	22.6	15.7	13.3	8.8	11.3	8.5	9.5	7.4	6.4	3.7	28.3
Gasoline	1.9	2.3	1.5	1.5	1.3	1.2	1.1	1.1	1.3	1.1	8.6
Diesel	4.3	4.8	4.9	5.2	5.5	5.6	6.3	6.1	6.6	5.7	43.8
Heating Oil	0.0	0.0	0.2	0.4	0.3	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	0.4	0.5	0.7	1.2	1.2	1.4	1.6	1.7	1.7	1.5	11.1
Exports	1.0	0.8	0.1	0.0	0.4	0.3	0.8	0.3	0.4	0.1	100.0
Oil	1.0	0.8	0.1	0.0	0.4	0.3	0.8	0.3	0.3	0.1	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Gasoline	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.1	0.1	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0
Heating Oil	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	273.8	230.8	191.5	192.3	177.1	187.6	174.5	165.9	171.7	119.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	510.2	478.3	439.7	430.9	387.8	397.0	357.8	353.5	353.7	352.2	-
Final energy intensity (toe/million \$15ppp)	126.1	123.3	114.8	115.9	108.1	107.6	99.3	98.9	99.7	105.1	-
Total energy intensity (toe/million \$15ppp)	211.8	207.9	212.8	200.5	196.1	198.2	183.2	184.0	187.7	192.5	-

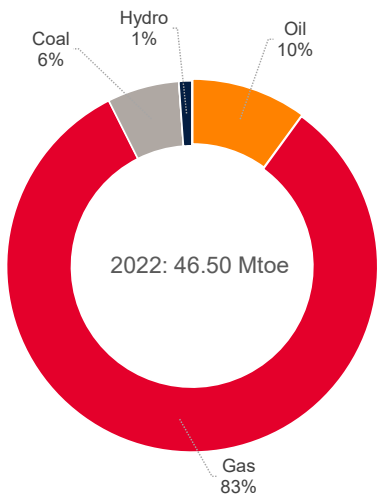
*Heat is included



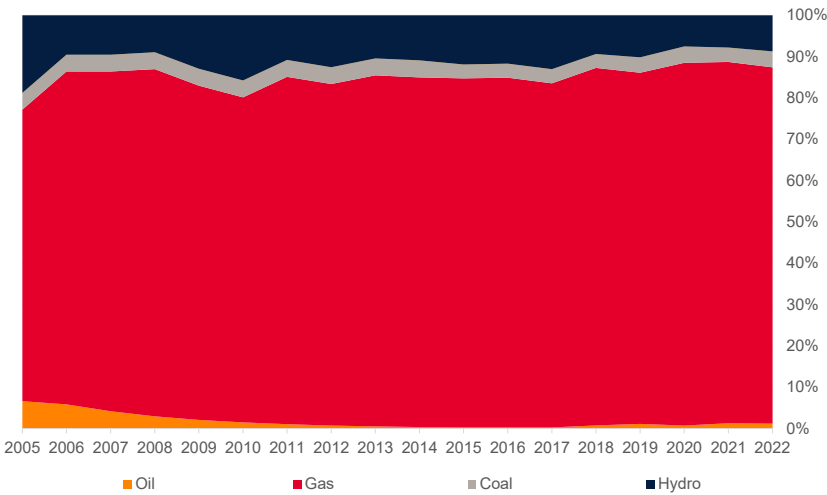
Uzbekistan (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	40.0	37.3	35.7	37.7	39.7	48.1	47.1	45.3	49.9	46.5	100.0
Oil	3.8	3.4	3.4	3.6	3.7	4.0	3.9	4.3	4.4	4.6	10.0
Gas	33.8	31.5	30.3	31.9	33.7	41.2	40.4	37.4	42.1	38.1	82.0
Coal	2.0	1.9	1.5	1.8	1.7	2.4	2.1	2.9	2.6	2.9	6.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.4	0.5	0.5	1.1
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	-0.0	0.1	0.2	0.3	0.3	0.6
Total final consumption, by source	29.6	27.0	25.1	26.8	28.5	28.8	29.4	32.6	33.5	32.0	100.0
Oil	3.0	3.2	3.2	3.4	3.4	3.6	3.6	3.9	3.7	3.9	12.3
Gas	19.7	17.0	15.1	16.3	18.1	17.1	17.7	20.2	21.6	19.8	61.7
Coal	0.8	0.6	0.4	0.7	0.5	0.9	0.8	1.3	1.1	1.3	3.9
Electricity	3.4	3.5	3.6	3.7	3.8	4.5	4.5	4.4	4.7	4.6	14.5
Heat	2.7	2.7	2.7	2.7	2.6	2.7	2.9	2.7	2.3	2.4	7.6
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	4.7	4.8	4.9	5.0	5.2	5.4	5.5	5.7	6.1	6.1	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	1.2
Gas	4.0	4.1	4.2	4.3	4.4	4.7	4.6	5.0	5.3	5.2	86.2
Coal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.9
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	0.5	0.6	0.6	0.7	0.5	0.6	0.4	0.5	0.5	8.7
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	0.0
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	29.6	27.0	25.1	26.8	28.5	28.8	29.4	32.6	33.5	32.0	100.0
Industry	7.1	6.5	6.0	6.4	6.9	6.6	7.2	6.8	7.3	6.9	21.6
Transport	2.4	2.3	2.3	2.4	2.4	5.0	5.5	5.7	5.9	5.9	18.4
Residential/Commercial	15.9	14.2	12.9	13.8	15.2	14.8	14.7	17.0	17.9	16.9	52.8
Oil final consumption, by sector	3.0	3.2	3.2	3.4	3.4	3.6	3.6	3.9	3.7	3.9	100.0
Industry	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	3.7
Transport	2.2	2.2	2.2	2.3	2.3	2.6	2.6	3.1	2.8	3.0	77.2
Residential/Commercial	0.1	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.5	0.5	12.9
Natural gas final consumption, by sector	19.7	17.0	15.1	16.3	18.1	17.1	17.7	20.2	21.6	19.8	100.0
Industry	5.2	4.5	4.0	4.4	4.8	4.5	4.9	4.3	4.8	4.4	22.3
Transport	0.1	0.0	0.0	0.0	0.0	2.3	2.8	2.5	3.1	2.8	14.2
Residential/Commercial	14.3	12.3	10.9	11.8	13.1	10.0	9.9	12.1	13.0	11.9	60.3
Refined products consumption	3.0	3.2	3.2	3.4	3.4	3.6	3.6	3.9	3.7	3.9	100.0
Gasoline	1.2	1.1	1.1	1.2	1.1	1.1	1.1	1.4	1.4	1.5	38.7
Diesel	1.1	0.9	0.9	1.0	1.1	1.1	1.1	1.4	1.1	1.2	29.9
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.5
LPG	0.3	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.9	22.3
Imports	0.8	0.7	0.8	1.1	1.1	1.3	0.9	1.5	3.4	1.7	100.0
Oil	0.8	0.7	0.8	1.1	1.1	1.3	0.9	1.5	1.6	1.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	7.5
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.4	22.5
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	14.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	9.2	7.9	8.9	8.6	7.6	10.0	10.0	2.5	4.5	4.7	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	2.0
Gas	9.1	7.8	8.8	8.5	7.5	9.9	9.9	2.5	4.4	4.6	98.0
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)	106.6	99.8	94.1	100.2	104.8	107.8	111.9	109.7	119.3	111.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	584.3	511.5	450.1	452.4	453.1	442.6	434.7	418.2	423.3	375.9	-
Final energy intensity (toe/million \$15ppp)	160.2	136.9	118.5	119.8	121.8	117.2	113.5	123.6	118.3	107.0	-
Total energy intensity (toe/million \$15ppp)	219.4	191.3	170.8	170.3	171.8	197.5	182.8	172.5	177.2	156.1	-

*Heat is included

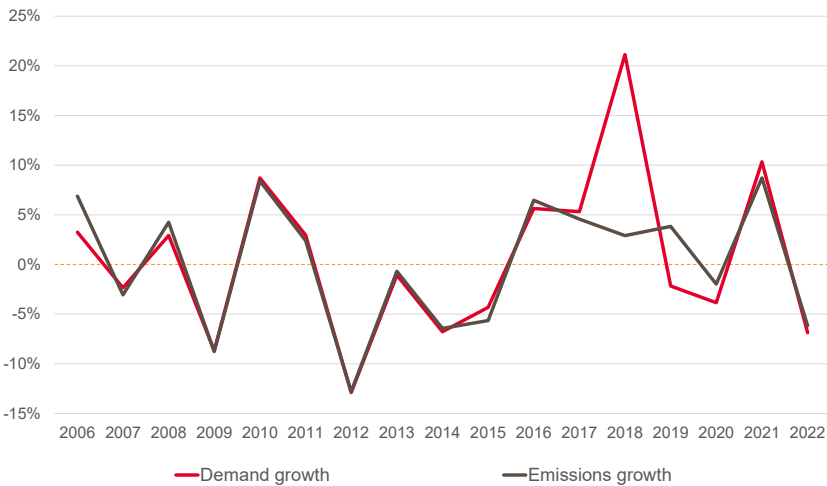
Primary energy demand mix



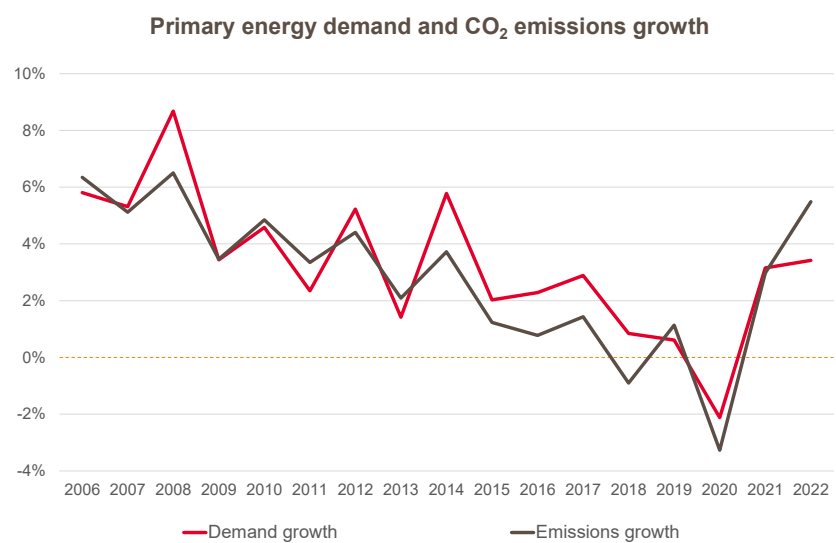
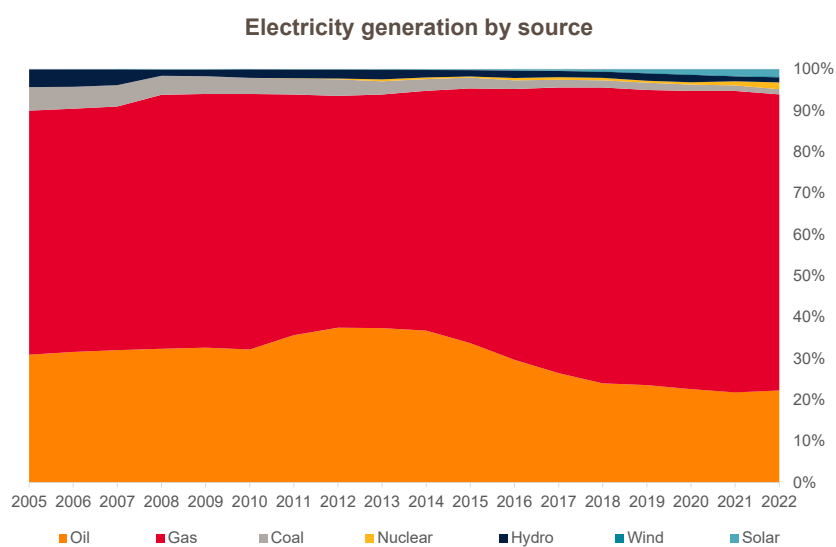
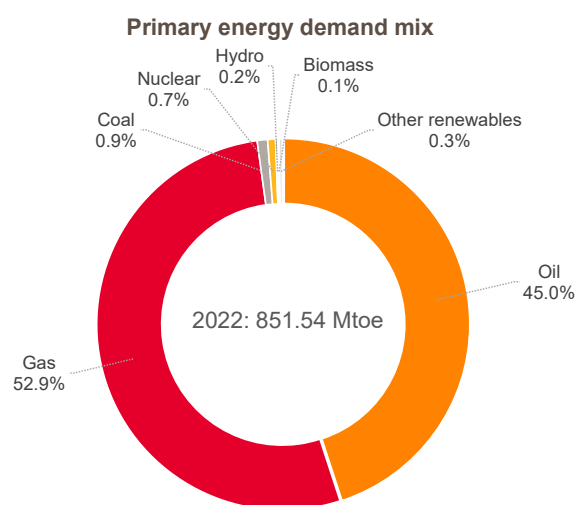
Electricity generation by source



Primary energy demand and CO₂ emissions growth

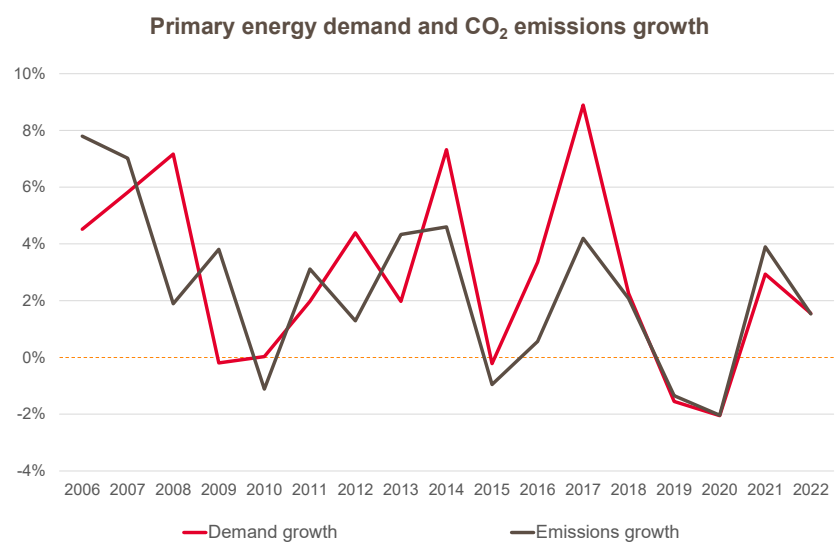
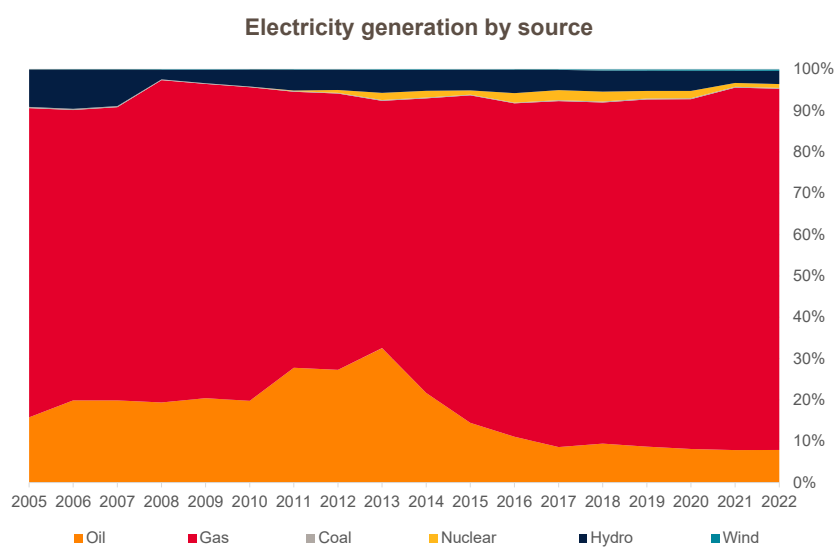
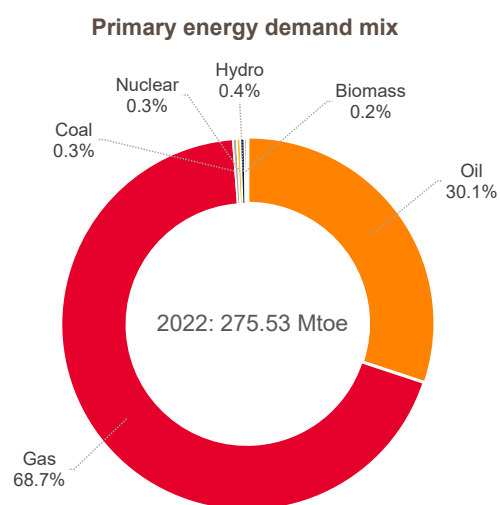


Middle East (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	707.6	748.5	763.7	781.2	803.7	810.5	815.5	798.2	823.4	851.5	100.0
Oil	340.9	364.7	357.6	358.4	366.2	366.5	359.4	336.7	349.9	382.1	44.9
Gas	351.5	368.8	391.7	408.0	422.9	428.7	439.5	445.4	456.4	449.4	52.8
Coal	10.4	10.3	9.9	8.9	8.8	8.3	8.0	8.0	7.7	7.6	0.9
Nuclear	1.2	1.2	0.8	1.7	2.0	1.9	1.5	1.9	3.5	5.9	0.7
Hydro	2.0	1.7	1.5	1.8	1.6	1.6	1.9	1.9	1.4	1.5	0.2
Biomass	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.2	1.2	1.2	0.1
Other renewables	0.1	0.2	0.2	0.3	0.4	0.6	1.2	1.6	1.9	2.3	0.3
Electricity balance of trade*	0.5	0.7	1.1	1.0	0.8	1.7	2.8	1.4	1.5	1.6	0.2
Total final consumption, by source	496.4	522.4	528.1	535.2	537.5	539.2	547.9	526.3	547.2	571.7	100.0
Oil	247.5	260.5	257.4	258.5	266.3	266.3	265.8	243.0	254.7	273.2	47.8
Gas	171.8	179.2	187.3	189.4	180.6	181.1	189.7	190.6	194.9	197.4	34.5
Coal	3.2	3.7	3.2	3.4	3.7	3.7	3.6	3.9	4.2	4.2	0.7
Electricity	72.6	77.7	78.7	82.5	85.4	86.5	87.2	87.2	91.8	95.3	16.7
Heat	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.1
Biomass	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.2
Electricity generation, by source	87.1	93.1	97.5	100.8	105.4	106.5	109.1	109.8	114.5	119.4	100.0
Oil	32.5	34.2	32.9	29.9	27.9	25.6	25.7	24.8	25.0	26.6	22.3
Gas	49.2	54.0	60.1	66.1	72.9	76.3	77.9	79.2	83.5	85.6	71.7
Coal	2.8	2.6	2.6	2.1	2.0	1.8	1.9	1.7	1.5	1.5	1.3
Nuclear	0.4	0.4	0.3	0.6	0.6	0.6	0.5	0.6	1.1	1.9	1.6
Hydro	2.0	1.7	1.5	1.8	1.6	1.6	1.9	1.9	1.4	1.5	1.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Solar	0.1	0.1	0.1	0.2	0.3	0.5	0.9	1.3	1.7	2.1	1.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	496.4	522.4	528.1	535.2	537.5	539.2	547.9	526.3	547.2	571.7	100.0
Industry	146.1	157.3	158.7	154.6	147.7	143.4	150.6	147.8	149.5	154.2	27.0
Transport	136.2	139.0	138.6	141.3	145.3	146.3	145.8	130.4	138.5	148.7	26.0
Residential/Commercial	118.0	120.2	124.6	130.1	129.0	133.4	133.3	131.5	138.1	142.4	24.9
Oil final consumption, by sector	247.5	260.5	257.4	258.5	266.3	266.3	265.8	243.0	254.7	273.2	100.0
Industry	28.5	32.9	31.4	28.4	28.6	27.3	25.7	22.0	21.4	24.6	9.0
Transport	130.5	133.0	132.3	134.8	138.8	139.5	139.1	123.6	131.5	141.7	51.9
Residential/Commercial	17.6	15.7	14.8	15.0	14.9	15.4	15.0	13.3	14.0	14.7	5.4
Natural gas final consumption, by sector	171.8	179.2	187.3	189.4	180.6	181.1	189.7	190.6	194.9	197.4	100.0
Industry	97.6	102.5	108.3	104.8	96.8	93.2	101.9	102.5	103.6	105.1	53.3
Transport	5.6	6.0	6.3	6.5	6.5	6.7	6.7	6.7	7.0	7.0	3.6
Residential/Commercial	47.3	48.0	49.9	53.8	50.7	53.9	53.9	53.9	56.3	56.6	28.7
Refined products consumption	247.3	259.9	257.2	256.7	264.0	263.5	264.2	242.1	253.6	270.5	100.0
Gasoline	72.1	73.4	74.5	76.9	81.2	81.3	80.8	69.4	75.6	80.1	29.6
Diesel	73.9	74.3	71.0	70.4	69.8	70.9	71.2	65.9	68.6	75.2	27.8
Heating Oil	16.3	20.2	20.2	15.6	15.3	13.4	13.2	11.2	9.4	10.1	3.7
Aviation Jet	2.0	2.1	2.3	2.3	2.5	2.4	2.4	1.7	1.9	2.1	0.8
LPG	26.9	29.6	26.6	25.8	26.0	25.2	25.4	26.3	27.0	28.6	10.6
Imports	132.0	133.9	142.2	137.3	134.6	156.0	135.3	134.6	138.9	145.3	100.0
Oil	106.3	105.9	110.5	105.9	102.7	125.0	103.7	101.7	107.3	113.6	78.2
Gas	25.7	28.0	31.8	31.3	31.9	31.0	31.6	32.9	31.6	31.7	21.8
Gasoline	18.7	19.5	22.8	24.2	27.0	36.5	26.5	23.0	24.5	26.1	18.0
Diesel	24.2	22.8	23.3	20.2	13.0	18.1	8.7	7.2	10.3	8.4	5.8
Heating Oil	22.5	21.1	22.2	21.2	20.8	26.6	27.3	28.9	28.1	30.3	20.8
Aviation Jet	0.6	0.6	0.6	0.8	0.8	0.8	0.9	0.3	0.3	0.3	0.2
LPG	1.9	1.6	1.6	1.8	1.3	1.3	1.3	1.2	1.2	1.2	0.8
Exports	1,219.1	1,193.9	1,251.1	1,390.9	1,339.2	1,375.9	1,285.9	1,194.0	1,212.5	1,366.9	100.0
Oil	1,078.2	1,054.8	1,116.5	1,254.3	1,202.0	1,237.0	1,141.1	1,050.2	1,064.1	1,193.0	87.3
Gas	140.9	139.2	134.6	136.7	137.1	138.9	144.8	143.9	148.4	173.9	12.7
Gasoline	3.3	6.1	9.9	14.0	13.1	20.6	11.6	11.8	13.8	17.8	1.3
Diesel	27.3	34.9	47.4	55.6	56.2	70.0	59.9	53.0	65.2	67.4	4.9
Heating Oil	26.7	20.4	24.5	28.6	32.6	35.2	32.1	27.7	31.8	35.9	2.6
Aviation Jet	11.4	9.4	8.9	10.0	11.1	12.8	10.5	9.2	9.6	10.7	0.8
LPG	44.1	39.0	42.9	48.0	48.2	50.7	45.0	40.3	46.3	53.8	3.9
CO₂ Emissions (Million tons CO₂)	1,766.4	1,832.1	1,854.6	1,869.0	1,895.8	1,878.6	1,899.9	1,837.9	1,892.5	1,996.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	370.8	373.4	371.5	359.0	361.9	354.5	355.3	357.5	355.5	354.1	-
Final energy intensity (toe/million \$15ppp)	86.0	86.9	86.5	83.7	82.5	81.9	82.4	81.9	82.3	81.2	-
Total energy intensity (toe/million \$15ppp)	148.5	152.5	152.9	150.0	153.4	153.1	152.6	155.6	155.0	151.4	-



Iran (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	221.8	238.0	237.5	245.5	267.3	273.4	269.1	263.6	271.3	275.5	100.0
Oil	89.0	88.8	78.8	74.6	85.9	85.8	83.5	76.2	80.9	83.0	30.1
Gas	129.3	145.9	155.3	166.4	176.7	182.8	181.4	183.3	187.5	189.4	68.7
Coal	1.2	1.0	1.1	1.1	1.3	1.2	1.0	1.0	1.0	1.0	0.3
Nuclear	1.2	1.2	0.8	1.7	2.0	1.9	1.5	1.5	0.8	0.8	0.3
Hydro	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	0.9	1.0	0.4
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	0.1	0.1	0.1	0.1	0.1	0.0
Electricity balance of trade*	-0.7	-0.5	-0.2	-0.2	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.1
Total final consumption, by source	170.4	181.6	181.6	188.6	195.0	201.1	199.3	194.7	203.8	206.8	100.0
Oil	62.4	67.4	66.9	64.8	68.6	70.9	69.7	63.6	67.0	68.7	33.2
Gas	88.9	93.6	94.9	101.5	102.6	106.1	105.3	106.4	110.7	111.4	53.9
Coal	1.0	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.3	0.6
Electricity	17.6	19.0	18.2	20.7	22.1	22.3	22.5	22.9	24.3	24.9	12.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
Electricity generation, by source	22.6	23.6	24.1	24.9	26.5	26.6	27.7	27.9	29.6	30.3	100.0
Oil	7.3	5.1	3.5	2.8	2.3	2.5	2.4	2.3	2.3	2.4	7.9
Gas	13.5	16.8	19.1	20.1	22.2	22.0	23.2	23.6	26.0	26.5	87.4
Coal	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Nuclear	0.4	0.4	0.3	0.6	0.6	0.6	0.5	0.5	0.3	0.3	0.9
Hydro	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	0.9	1.0	3.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Other renewables	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	170.4	181.6	181.6	188.6	195.0	201.1	199.3	194.7	203.8	206.8	100.0
Industry	42.2	48.2	45.7	45.5	47.4	48.8	48.5	48.8	50.9	51.4	24.9
Transport	43.4	44.4	42.9	44.2	46.3	47.9	47.3	44.4	46.3	47.4	22.9
Residential/Commercial	59.6	60.4	62.1	66.2	63.6	65.4	65.0	64.6	67.4	68.1	32.9
Oil final consumption, by sector	62.4	67.4	66.9	64.8	68.6	70.9	69.7	63.6	67.0	68.7	100.0
Industry	5.3	8.4	8.0	4.1	3.9	3.9	3.9	3.6	3.7	3.8	5.6
Transport	37.7	38.4	36.6	37.6	39.8	41.1	40.6	37.6	39.3	40.4	58.8
Residential/Commercial	7.3	6.4	6.1	6.1	5.5	5.5	5.4	4.3	4.5	4.6	6.7
Natural gas final consumption, by sector	88.9	93.6	94.9	101.5	102.6	106.1	105.3	106.4	110.7	111.4	100.0
Industry	30.1	32.5	32.1	33.6	35.2	36.4	36.2	36.5	38.1	38.4	34.4
Transport	5.6	6.0	6.3	6.5	6.5	6.7	6.7	6.7	7.0	7.0	6.3
Residential/Commercial	43.3	44.0	45.3	49.0	46.3	47.9	47.6	48.1	49.9	50.2	45.1
Refined products consumption	62.4	67.4	66.9	64.8	68.6	70.9	69.7	63.6	67.0	68.7	100.0
Gasoline	19.2	19.5	19.9	21.0	22.6	23.2	22.9	21.4	22.3	22.9	33.4
Diesel	24.2	24.0	21.5	21.3	22.1	23.2	23.0	21.3	22.1	22.7	33.0
Heating Oil	3.3	6.3	5.8	2.0	1.1	1.0	1.0	1.0	1.0	1.0	1.5
Aviation Jet	0.8	0.8	0.8	0.9	1.0	0.9	0.8	0.6	0.7	0.8	1.2
LPG	2.6	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	3.8
Imports	7.7	10.1	11.7	10.2	8.6	8.3	5.9	5.4	5.4	5.3	100.0
Oil	3.2	3.8	4.4	5.2	5.4	6.5	5.9	5.3	5.4	5.3	99.7
Gas	4.5	6.4	7.2	5.0	3.3	1.8	0.0	0.0	0.0	0.0	0.3
Gasoline	1.0	1.3	2.8	3.4	3.5	4.7	4.0	3.6	3.6	3.4	63.7
Diesel	0.2	0.3	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	82.1	85.2	92.3	156.9	154.1	141.5	85.4	69.9	89.3	97.3	100.0
Oil	74.2	77.0	84.6	149.2	142.9	129.7	70.0	56.3	74.0	80.6	82.8
Gas	7.9	8.2	7.7	7.7	11.2	11.8	15.5	13.6	15.3	16.7	17.2
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.2	0.0	1.8	3.5	2.1	2.1	2.2	2.2	2.6	3.1	3.2
Heating Oil	8.1	6.1	9.1	15.2	15.2	15.3	16.0	15.8	16.4	17.1	17.6
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	2.0	3.3	3.2	3.1	2.9	2.9	3.0	3.0	3.2	3.4	3.5
CO₂ Emissions (Million tons CO₂)	561.5	587.3	581.7	584.9	609.5	622.1	613.8	601.3	624.7	634.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	513.7	511.8	514.3	475.3	481.9	503.3	503.2	484.5	480.6	476.0	-
Final energy intensity (toe/million \$15ppp)	139.3	139.6	139.6	132.5	130.5	137.4	138.4	133.4	132.9	131.6	-
Total energy intensity (toe/million \$15ppp)	202.9	207.5	210.0	199.5	211.4	221.1	220.6	212.4	208.8	206.8	-

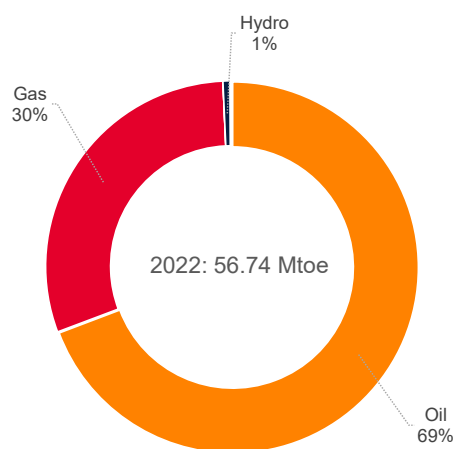
*Heat is included



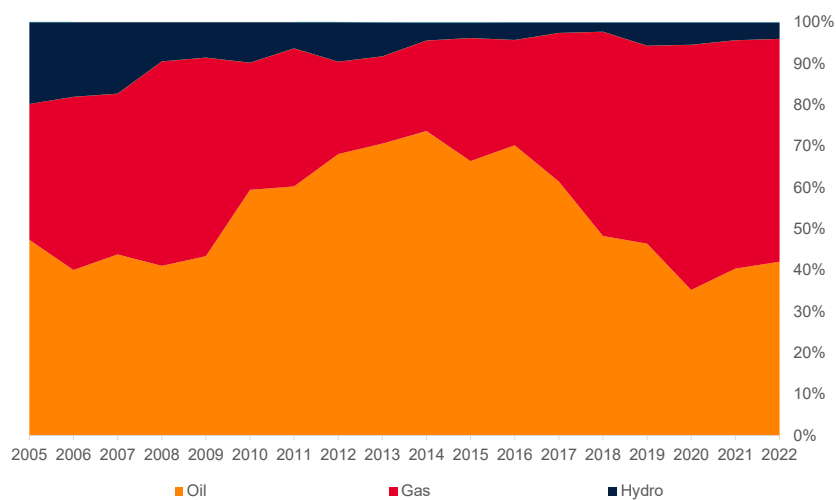
Iraq (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	41.5	39.6	37.5	40.3	46.6	52.8	56.4	45.7	49.2	56.7	100.0
Oil	34.3	32.7	30.4	32.7	35.9	38.6	38.8	28.8	31.8	38.0	67.0
Gas	5.7	5.5	5.7	6.2	9.5	12.1	14.1	14.8	15.3	16.5	29.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.4	0.3	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.3	0.6
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*	1.0	1.1	1.1	1.0	1.0	1.9	3.0	1.6	1.7	1.8	3.2
Total final consumption, by source	24.6	19.6	17.0	17.8	19.6	22.1	23.6	21.1	24.7	27.7	100.0
Oil	18.3	14.2	12.7	13.0	14.8	17.0	17.9	15.6	18.3	20.7	74.5
Gas	2.4	1.6	1.2	1.4	1.3	1.4	1.8	1.9	2.4	2.7	9.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.9	3.8	3.1	3.3	3.4	3.7	3.8	3.6	4.0	4.3	15.6
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	5.0	5.8	5.9	6.9	7.5	7.1	7.6	7.9	8.0	8.6	100.0
Oil	3.6	4.3	3.9	4.8	4.6	3.4	3.5	2.8	3.2	3.6	42.1
Gas	1.1	1.3	1.8	1.8	2.7	3.5	3.7	4.7	4.4	4.7	54.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.4	0.3	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.3	3.9
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	24.6	19.6	17.0	17.8	19.6	22.1	23.6	21.1	24.7	27.7	100.0
Industry	5.2	4.1	3.3	3.4	3.6	4.1	4.6	4.1	4.8	5.5	19.9
Transport	10.6	8.4	8.1	8.2	9.4	10.9	11.6	9.6	11.9	13.6	49.2
Residential/Commercial	7.3	6.1	5.1	5.8	6.2	6.6	6.7	6.6	7.1	7.5	27.2
Oil final consumption, by sector	18.3	14.2	12.7	13.0	14.8	17.0	17.9	15.6	18.3	20.7	100.0
Industry	2.5	1.9	1.8	1.8	2.0	2.5	2.6	2.2	2.5	2.8	13.7
Transport	10.6	8.4	8.1	8.2	9.4	10.9	11.6	9.6	11.9	13.6	66.0
Residential/Commercial	4.3	3.2	2.6	2.9	3.2	3.3	3.3	3.4	3.5	3.6	17.5
Natural gas final consumption, by sector	2.4	1.6	1.2	1.4	1.3	1.4	1.8	1.9	2.4	2.7	100.0
Industry	1.9	1.4	1.0	1.2	1.1	1.2	1.5	1.5	2.0	2.3	83.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	18.3	14.2	12.7	13.0	14.8	17.0	17.9	15.6	18.3	20.7	100.0
Gasoline	6.1	5.0	4.8	5.0	5.7	6.4	6.7	5.5	7.2	8.4	40.4
Diesel	6.6	5.0	4.8	4.7	5.4	6.6	7.2	6.2	6.9	7.9	38.2
Heating Oil	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.9
Aviation Jet	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2
LPG	2.2	1.8	1.3	1.5	1.7	1.8	1.8	1.8	1.9	2.0	9.9
Imports	4.6	4.4	4.4	4.8	6.2	8.2	10.1	9.9	9.1	10.4	100.0
Oil	4.6	4.4	4.4	4.8	5.0	4.8	5.1	4.0	5.3	5.7	55.3
Gas	0.0	0.0	0.0	0.0	1.2	3.4	5.0	5.9	3.8	4.6	44.7
Gasoline	2.2	2.0	2.1	2.3	2.6	2.7	2.9	2.1	3.7	4.0	38.1
Diesel	1.4	1.5	1.4	1.8	1.8	1.4	1.6	1.5	1.1	1.3	12.2
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.2	0.2	0.2	1.8
LPG	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	119.9	127.2	152.8	192.3	195.3	196.2	204.6	180.6	179.0	192.0	100.0
Oil	119.9	127.2	152.8	192.3	195.3	196.2	204.6	180.6	179.0	192.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.5	0.4	0.4	0.3	3.5	1.1	3.7	6.3	7.5	7.2	3.7
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	0.2	0.2	0.2	0.2	0.2	0.2	0.1
CO₂ Emissions (Million tons CO₂)	111.5	105.6	100.3	106.6	119.3	127.6	139.1	122.6	140.2	155.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	336.9	318.4	288.9	269.8	307.6	320.5	331.0	329.0	366.0	375.4	-
Final energy intensity (toe/million \$15ppp)	69.9	56.2	47.4	44.0	49.3	54.1	54.5	54.7	62.1	64.5	-
Total energy intensity (toe/million \$15ppp)	125.3	119.3	108.0	102.0	120.2	132.6	134.2	122.5	128.6	137.0	-

*Heat is included

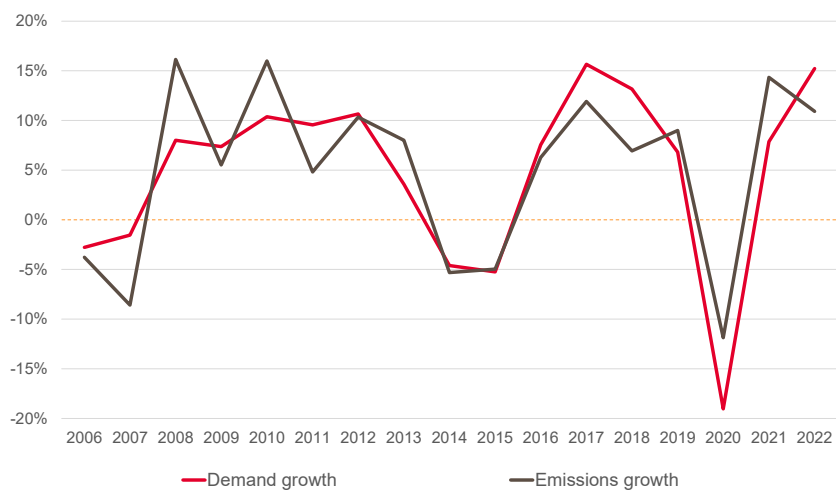
Primary energy demand mix



Electricity generation by source



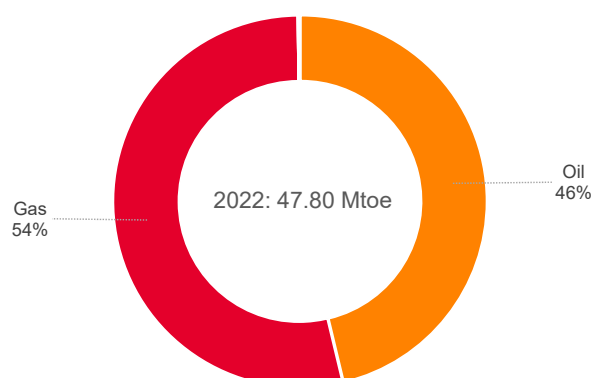
Primary energy demand and CO₂ emissions growth



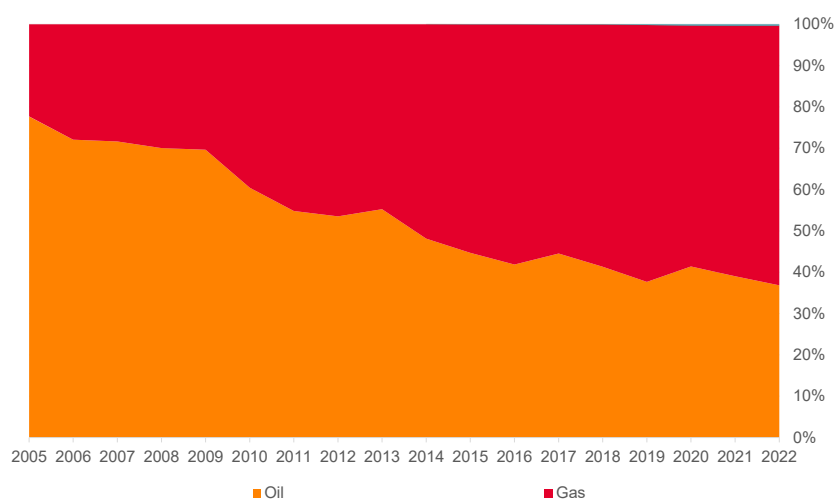
Kuwait (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	29.7	26.9	33.1	36.1	34.4	34.2	36.2	38.8	44.1	47.8	100.0
Oil	14.6	11.9	16.0	18.0	16.0	15.5	15.9	16.1	20.1	22.1	46.3
Gas	15.1	15.0	17.1	18.0	18.3	18.7	20.2	22.6	23.9	25.6	53.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electricity balance of trade*	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by source	15.6	16.2	17.3	17.7	18.5	19.1	19.0	18.0	19.8	20.8	100.0
Oil	8.4	8.8	9.0	9.1	9.2	9.6	9.2	8.1	9.4	9.9	47.8
Gas	4.1	2.9	3.6	3.8	4.3	4.4	4.6	4.8	4.8	5.2	24.7
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	4.5	4.7	4.8	5.0	5.1	5.2	5.1	5.6	5.7	27.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	5.2	5.6	5.9	6.0	6.3	6.4	6.5	6.4	6.9	7.2	100.0
Oil	2.9	2.7	2.6	2.5	2.8	2.6	2.4	2.7	2.7	2.6	36.8
Gas	2.3	2.9	3.2	3.5	3.5	3.7	4.0	3.7	4.2	4.5	62.8
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	0.3
Other renewables	0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	15.6	16.2	17.3	17.7	18.5	19.1	19.0	18.0	19.8	20.8	100.0
Industry	5.5	5.1	5.7	5.9	6.4	6.5	6.7	6.8	7.0	7.5	35.8
Transport	4.4	4.5	4.7	4.8	5.1	5.3	5.4	4.4	5.2	5.7	27.4
Residential/Commercial	2.7	3.4	3.5	3.7	3.9	3.9	4.0	3.9	4.2	4.4	20.9
Oil final consumption, by sector	8.4	8.8	9.0	9.1	9.2	9.6	9.2	8.1	9.4	9.9	100.0
Industry	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.6	0.7	0.7	7.5
Transport	4.4	4.5	4.7	4.8	5.1	5.3	5.4	4.4	5.2	5.7	57.4
Residential/Commercial	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	3.3
Natural gas final consumption, by sector	4.1	2.9	3.6	3.8	4.3	4.4	4.6	4.8	4.8	5.2	100.0
Industry	4.1	2.9	3.6	3.8	4.3	4.4	4.6	4.8	4.8	5.2	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	8.4	8.8	9.0	9.1	9.2	9.6	9.2	8.1	9.4	9.9	100.0
Gasoline	3.0	3.1	3.3	3.2	3.4	3.6	3.5	2.7	3.4	3.7	37.1
Diesel	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.2	2.6	2.8	27.7
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.0
Imports	1.8	2.7	3.3	4.1	4.5	4.1	4.2	5.0	8.1	8.5	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	13.9
Gas	1.8	2.7	3.3	4.1	4.5	4.1	4.2	5.0	6.6	7.3	86.1
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	13.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	140.3	139.0	138.1	143.0	133.4	135.8	130.0	117.5	113.6	121.1	100.0
Oil	140.3	139.0	138.1	143.0	133.4	135.8	130.0	117.5	113.6	121.1	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	0.0	0.2	0.5	0.7	0.6	0.5	0.4	0.3	0.0	0.1	0.1
Diesel	10.4	10.3	8.4	7.3	6.1	5.9	5.9	6.2	6.2	7.3	6.0
Heating Oil	3.3	3.6	4.9	4.4	3.7	3.6	3.1	0.3	0.9	0.9	0.8
Aviation Jet	2.0	1.8	1.9	1.6	0.9	1.0	0.7	1.0	0.9	1.1	0.9
LPG	4.9	5.0	5.4	6.3	7.2	7.3	6.0	6.0	5.4	5.8	4.8
CO₂ Emissions (Million tons CO₂)	85.4	83.6	87.9	89.5	89.3	91.5	92.2	90.9	104.7	113.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	476.9	464.4	485.4	479.8	502.7	502.8	509.4	550.8	626.2	626.6	-
Final energy intensity (toe/million \$15ppp)	70.8	72.4	77.8	77.8	86.6	87.2	89.4	91.8	99.4	97.6	-
Total energy intensity (toe/million \$15ppp)	165.7	149.3	182.5	193.4	193.4	188.1	199.8	235.0	263.6	264.4	-

*Heat is included

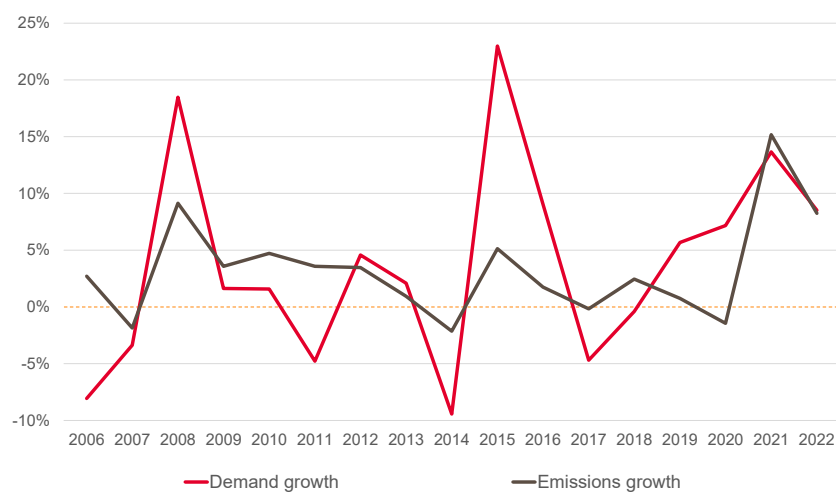
Primary energy demand mix



Electricity generation by source



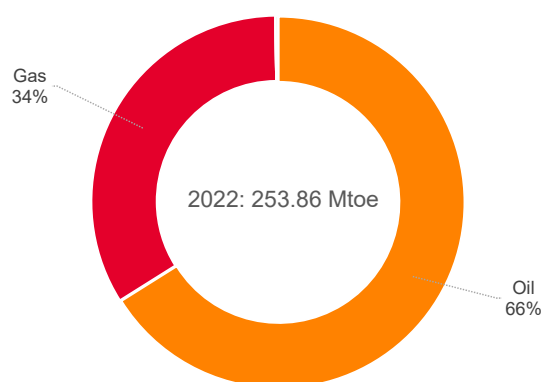
Primary energy demand and CO₂ emissions growth



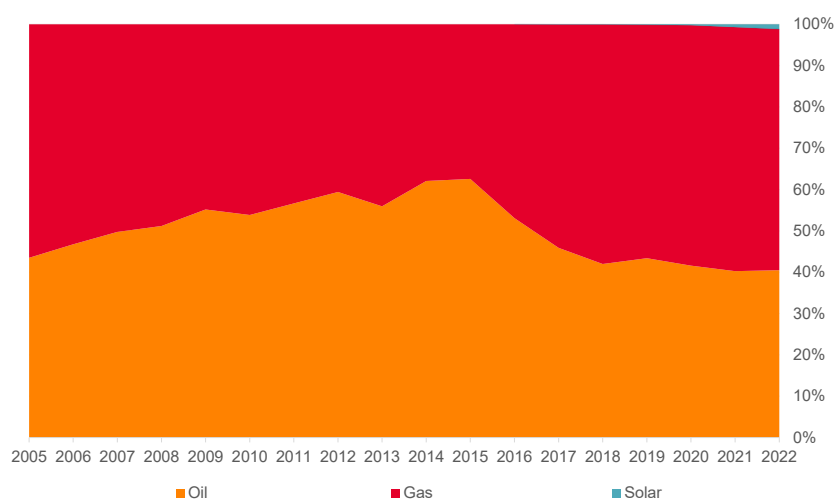
Saudi Arabia (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	207.0	229.1	234.1	236.0	240.1	231.9	232.2	229.9	234.1	253.9	100.0
Oil	140.0	159.6	162.8	161.8	162.1	152.7	151.9	149.1	152.1	167.8	66.1
Gas	66.9	69.5	71.3	74.2	78.0	79.1	80.2	80.7	81.8	85.7	33.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.2
Electricity balance of trade*	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	152.5	167.7	171.8	166.8	163.1	158.8	160.6	152.2	154.3	166.2	100.0
Oil	101.0	110.0	112.5	113.0	113.0	106.4	108.5	100.7	101.6	110.7	66.6
Gas	27.9	32.6	33.1	27.4	23.6	25.7	26.3	25.4	25.5	26.7	16.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	23.6	25.1	26.2	26.4	26.5	26.6	25.8	26.0	27.2	28.8	17.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	26.1	29.0	31.0	31.7	32.6	33.5	33.3	34.0	35.1	37.2	100.0
Oil	14.6	18.0	19.4	16.8	15.0	14.1	14.5	14.1	14.1	15.1	40.5
Gas	11.5	11.0	11.6	14.9	17.7	19.4	18.8	19.8	20.7	21.7	58.4
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	0.1	0.2	0.4	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	152.5	167.7	171.8	166.8	163.1	158.8	160.6	152.2	154.3	166.2	100.0
Industry	41.5	47.5	48.1	42.3	38.9	39.0	38.7	35.6	34.0	37.5	22.5
Transport	43.1	45.6	49.1	48.9	47.8	45.5	45.7	40.9	42.7	46.6	28.0
Residential/Commercial	20.8	22.3	24.1	24.3	24.3	24.2	23.4	23.2	24.6	26.1	15.7
Oil final consumption, by sector	101.0	110.0	112.5	113.0	113.0	106.4	108.5	100.7	101.6	110.7	100.0
Industry	14.4	15.9	16.3	16.5	16.9	14.8	13.8	11.5	9.7	12.0	10.8
Transport	43.1	45.6	49.1	48.9	47.8	45.5	45.7	40.9	42.7	46.6	42.1
Residential/Commercial	1.6	1.5	1.7	1.8	1.8	1.8	1.8	1.5	1.9	2.0	1.8
Natural gas final consumption, by sector	27.9	32.6	33.1	27.4	23.6	25.7	26.3	25.4	25.5	26.7	100.0
Industry	23.1	27.7	28.4	22.3	18.5	20.4	21.2	20.2	20.2	21.2	79.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	100.8	109.4	112.2	111.2	110.7	103.6	107.0	99.8	100.5	108.0	100.0
Gasoline	23.1	23.9	25.6	25.5	26.1	24.4	24.3	20.4	22.0	22.9	21.2
Diesel	23.2	24.9	26.8	26.2	23.8	22.5	22.9	22.5	22.8	26.0	24.1
Heating Oil	10.1	11.2	11.7	11.0	11.6	9.7	9.7	8.0	6.0	6.4	5.9
Aviation Jet	0.8	0.8	0.9	0.9	0.9	0.9	1.0	0.6	0.5	0.6	0.6
LPG	16.6	19.4	18.1	17.2	17.1	16.0	16.1	17.2	17.6	18.6	17.2
Imports	23.9	23.4	28.9	27.7	24.0	42.9	16.8	18.4	18.7	18.6	100.0
Oil	23.9	23.4	28.9	27.7	24.0	42.9	16.8	18.4	18.7	18.6	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	6.1	7.2	10.1	9.4	9.1	15.0	4.2	4.6	3.8	4.2	22.6
Diesel	12.5	11.9	12.6	11.1	4.5	9.9	1.0	0.5	4.6	3.2	17.3
Heating Oil	5.4	3.2	5.2	7.2	10.1	16.0	10.7	12.5	9.3	10.1	54.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	423.9	408.6	434.7	463.0	428.5	473.7	425.7	394.8	391.6	456.5	100.0
Oil	423.9	408.6	434.7	463.0	428.5	473.7	425.7	394.8	391.6	456.5	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.7	4.5	7.6	9.7	8.7	15.2	4.6	5.1	6.4	9.5	2.1
Diesel	5.3	12.3	20.3	29.1	30.6	41.8	30.9	25.7	34.5	33.9	7.4
Heating Oil	9.6	5.3	4.8	3.6	4.5	10.4	4.3	2.1	3.6	6.6	1.4
Aviation Jet	0.3	0.7	0.2	0.7	0.3	0.3	0.3	0.2	0.2	0.2	0.0
LPG	12.8	11.1	12.5	15.3	15.0	17.0	15.3	12.2	14.7	19.0	4.2
CO₂ Emissions (Million tons CO₂)	500.0	538.0	561.5	559.4	553.3	529.0	531.1	516.6	529.5	584.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	350.0	363.3	364.2	356.9	355.6	331.6	331.9	336.7	334.3	339.3	-
Final energy intensity (toe/million \$15ppp)	74.0	78.3	78.9	73.9	71.6	68.4	67.6	65.2	64.2	64.2	-
Total energy intensity (toe/million \$15ppp)	144.9	154.7	151.8	150.5	154.3	145.4	145.1	149.8	147.8	147.4	-

*Heat is included

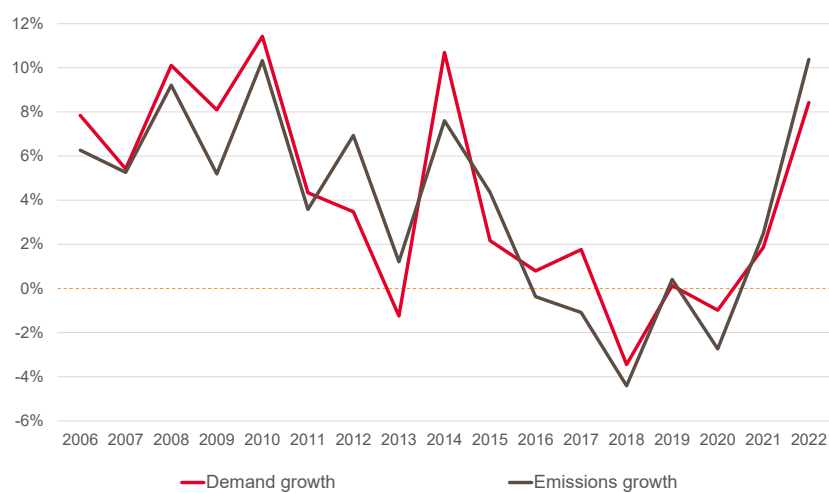
Primary energy demand mix



Electricity generation by source



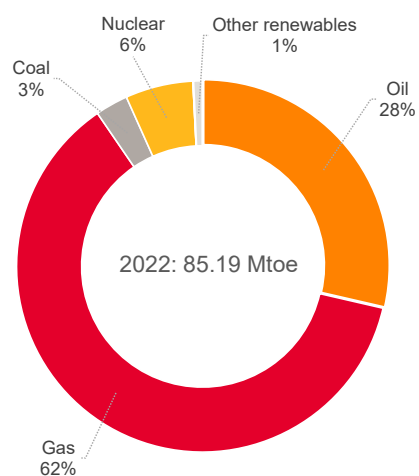
Primary energy demand and CO₂ emissions growth



United Arab Emirates (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	67.8	77.0	84.9	90.3	75.6	77.6	83.2	82.7	82.9	85.2	100.0
Oil	11.0	20.4	22.8	27.3	17.8	26.7	26.0	23.6	22.5	24.4	28.6
Gas	54.9	54.5	60.2	61.0	55.5	48.8	55.0	55.9	54.7	52.7	61.8
Coal	1.8	2.0	1.7	1.8	2.1	1.9	1.8	2.1	2.4	2.4	2.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.6	5.0	5.9
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	0.1
Other renewables	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.6	0.6	0.8
Electricity balance of trade*	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0
Total final consumption, by source	55.6	56.2	58.9	62.1	57.3	50.8	57.0	57.7	59.2	60.5	100.0
Oil	17.0	18.6	16.9	19.0	19.8	20.1	19.6	18.1	19.6	21.3	35.1
Gas	28.1	26.4	30.5	31.1	25.0	18.3	24.7	26.6	25.4	24.4	40.3
Coal	1.8	2.0	1.7	1.8	2.1	1.9	1.8	2.1	2.4	2.4	4.0
Electricity	8.7	9.2	9.8	10.0	10.3	10.5	10.8	10.8	11.8	12.4	20.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	9.5	10.0	11.0	11.1	11.6	11.7	11.9	11.9	13.0	13.4	100.0
Oil	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.6	0.7	0.8	5.7
Gas	9.3	9.8	10.7	10.9	11.3	11.5	11.5	10.8	10.8	10.4	77.5
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	0.1	0.9	1.7	12.4
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	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	0.1	0.1	0.3	0.5	0.6	0.6	4.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	55.6	56.2	58.9	62.1	57.3	50.8	57.0	57.7	59.2	60.5	100.0
Industry	31.7	30.2	34.2	35.1	29.3	22.4	28.8	31.0	30.1	29.3	48.3
Transport	11.7	12.0	10.4	11.7	12.7	12.8	12.1	10.4	11.1	12.1	20.1
Residential/Commercial	8.1	8.6	9.1	9.3	9.5	9.6	9.8	9.8	10.8	11.4	18.8
Oil final consumption, by sector	17.0	18.6	16.9	19.0	19.8	20.1	19.6	18.1	19.6	21.3	100.0
Industry	1.3	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.7	7.8
Transport	11.7	12.0	10.4	11.7	12.7	12.8	12.1	10.4	11.1	12.1	57.1
Residential/Commercial	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	1.1
Natural gas final consumption, by sector	28.1	26.4	30.5	31.1	25.0	18.3	24.7	26.6	25.4	24.4	100.0
Industry	27.8	25.9	30.0	30.6	24.5	17.7	24.2	26.1	24.9	23.9	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	17.0	18.6	16.9	19.0	19.8	20.1	19.6	18.1	19.6	21.3	100.0
Gasoline	7.3	7.7	7.2	8.0	8.9	9.3	8.7	7.2	7.9	8.7	41.0
Diesel	4.1	4.0	2.9	3.4	3.5	3.0	3.0	2.8	2.8	3.0	14.3
Heating Oil	1.2	1.2	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.5	7.0
Aviation Jet	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	1.9
LPG	1.6	2.1	0.9	0.9	0.9	0.9	0.9	0.8	0.9	1.0	4.7
Imports	37.2	36.7	37.4	35.2	33.6	34.3	41.5	48.4	51.1	52.6	100.0
Oil	20.7	19.8	19.9	18.2	16.1	18.4	25.0	31.6	34.5	37.4	71.2
Gas	16.5	16.9	17.5	17.0	17.4	15.9	16.5	16.8	16.6	15.2	28.8
Gasoline	4.5	4.1	3.4	4.3	6.8	8.9	10.2	8.7	9.3	10.2	19.5
Diesel	1.4	0.5	2.4	0.7	0.2	0.6	0.2	0.2	0.2	0.2	0.3
Heating Oil	14.2	14.5	13.8	11.7	8.2	8.3	14.6	14.5	15.5	17.1	32.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Exports	174.1	158.4	165.7	167.2	167.3	164.6	174.4	172.1	175.1	195.8	100.0
Oil	168.3	152.0	159.6	161.0	161.5	158.6	168.2	166.7	169.1	190.2	97.2
Gas	5.8	6.4	6.1	6.1	5.8	6.0	6.2	5.4	6.0	5.6	2.8
Gasoline	0.0	0.0	0.9	2.8	3.1	3.3	5.3	5.3	5.8	6.3	3.2
Diesel	1.0	0.7	5.6	5.7	7.3	8.7	10.1	7.8	8.3	9.0	4.6
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	4.5	2.6	3.1	4.6	5.5	6.1	4.6	4.1	5.2	5.6	2.9
LPG	12.2	7.3	10.5	12.0	11.8	11.1	11.0	10.9	14.3	15.5	7.9
CO₂ Emissions (Million tons CO₂)	178.7	180.0	188.6	195.5	186.7	169.1	181.0	184.2	180.8	180.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	326.0	314.7	313.7	315.8	294.5	263.7	272.9	295.8	279.5	259.1	-
Final energy intensity (toe/million \$15ppp)	94.0	88.7	89.4	90.7	81.4	69.8	76.5	82.2	80.3	76.1	-
Total energy intensity (toe/million \$15ppp)	123.6	134.6	141.2	145.8	119.3	121.0	125.4	132.8	128.1	122.6	-

*Heat is included

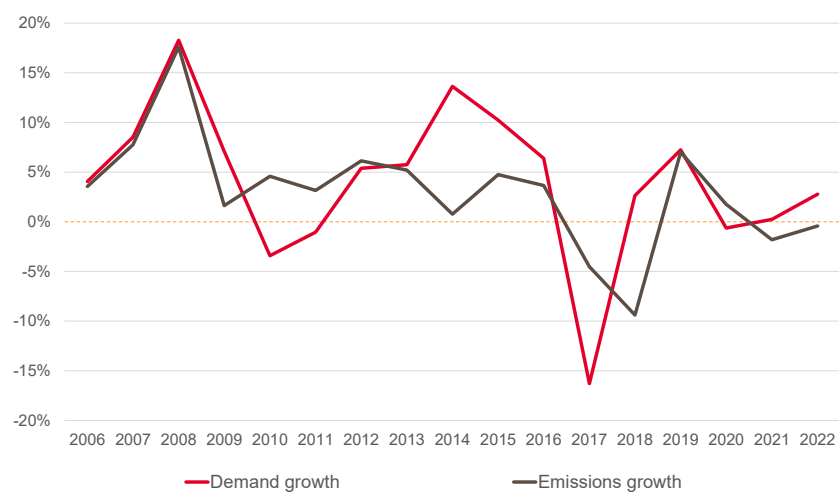
Primary energy demand mix



Electricity generation by source



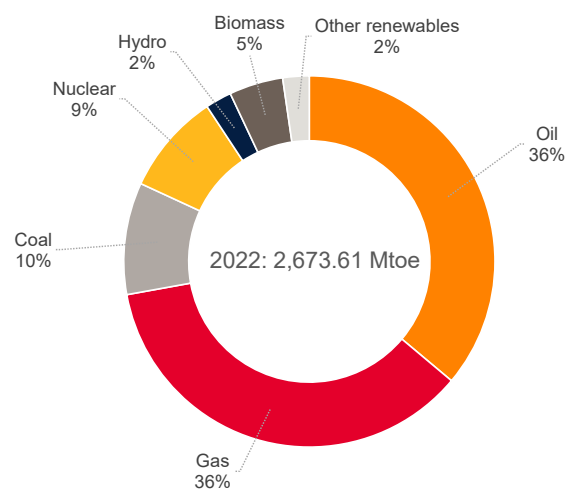
Primary energy demand and CO₂ emissions growth



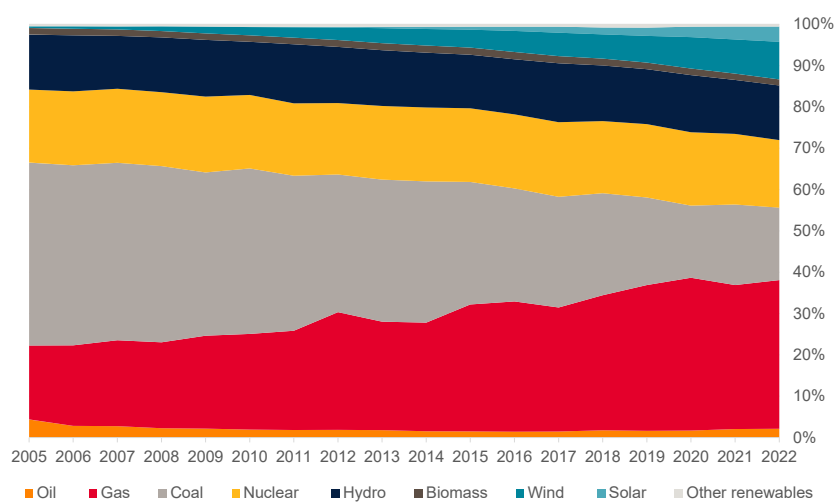
North America (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	2,656.6	2,686.2	2,655.6	2,644.4	2,645.2	2,714.7	2,714.1	2,503.8	2,617.5	2,673.6	100.0
Oil	972.1	973.1	988.8	976.1	982.7	990.2	990.3	869.2	939.9	959.1	35.9
Gas	756.3	776.8	796.7	822.6	817.8	883.0	928.5	909.0	915.4	956.9	35.8
Coal	464.7	464.7	403.4	370.9	361.0	346.7	298.2	239.2	271.9	259.3	9.7
Nuclear	244.3	246.9	245.9	248.1	247.8	249.1	249.1	242.2	237.7	234.3	8.8
Hydro	59.4	58.7	57.1	59.0	62.7	61.4	59.8	60.2	58.3	60.6	2.3
Biomass	124.7	127.4	122.8	122.5	124.5	129.9	131.2	121.4	124.8	125.0	4.7
Other renewables	18.2	21.2	23.6	28.6	32.9	36.2	39.9	46.2	52.8	61.1	2.3
Electricity balance of trade*	16.9	17.3	17.4	16.6	15.7	18.2	17.2	16.5	16.7	17.4	0.6
Total final consumption, by source	1,795.1	1,817.8	1,811.8	1,820.6	1,830.5	1,885.4	1,889.7	1,725.2	1,811.6	1,859.3	100.0
Oil	883.8	887.7	905.8	911.9	912.8	926.9	927.7	812.7	880.0	895.0	48.1
Gas	380.1	395.7	378.6	381.0	391.1	412.3	421.1	390.7	396.2	415.3	22.3
Coal	35.5	34.0	31.7	27.1	28.2	27.3	25.6	22.1	24.6	27.0	1.5
Electricity	387.4	391.0	390.5	394.0	390.8	404.3	399.4	392.2	399.7	410.4	22.1
Heat	9.1	9.2	8.9	9.9	9.0	10.8	10.0	9.9	9.8	9.7	0.5
Biomass	99.3	100.2	96.3	96.7	98.6	103.8	106.0	97.6	101.4	101.8	5.5
Electricity generation, by source	452.5	455.9	454.6	456.5	453.4	470.5	463.4	449.5	459.3	473.1	100.0
Oil	8.0	6.9	6.7	6.6	6.6	8.3	7.4	7.6	9.4	10.0	2.1
Gas	118.8	119.8	139.6	143.8	136.0	153.8	163.5	166.2	160.1	170.3	36.0
Coal	155.6	155.9	134.7	124.8	121.5	116.1	98.3	78.4	89.5	83.0	17.5
Nuclear	80.6	81.5	81.2	81.9	81.8	82.2	82.2	79.9	78.5	77.3	16.3
Hydro	61.1	60.5	58.8	60.9	64.7	63.3	61.6	62.1	60.1	62.5	13.2
Biomass	7.7	7.9	7.8	8.0	7.9	7.9	7.5	7.1	7.1	7.0	1.5
Wind	16.5	18.3	19.7	23.3	25.7	27.7	29.9	34.2	37.9	43.0	9.1
Solar	1.5	2.4	3.3	4.7	6.5	7.8	9.4	11.5	14.3	17.4	3.7
Other renewables	2.7	2.7	2.6	2.6	2.6	3.6	3.6	2.5	2.5	2.6	0.5
Total final consumption, by sector	1,795.1	1,817.8	1,811.8	1,820.6	1,830.5	1,885.4	1,889.7	1,725.2	1,811.6	1,859.3	100.0
Industry	353.7	351.8	351.0	353.9	352.9	357.8	358.7	348.7	361.0	368.8	19.8
Transport	691.2	690.9	711.6	720.6	726.1	736.2	731.4	619.0	680.6	700.8	37.7
Residential/Commercial	563.2	578.6	558.4	552.8	551.6	588.3	587.9	565.5	575.2	599.7	32.3
Oil final consumption, by sector	883.8	887.7	905.8	911.9	912.8	926.9	927.7	812.7	880.0	895.0	100.0
Industry	30.2	27.4	30.2	31.8	29.7	28.9	27.4	27.5	28.4	28.0	3.1
Transport	652.5	651.7	671.8	677.9	682.0	692.8	687.7	579.9	638.9	659.2	73.7
Residential/Commercial	37.4	35.5	37.5	36.7	34.5	34.6	33.8	32.0	34.5	35.0	3.9
Natural gas final consumption, by sector	380.1	395.7	378.6	381.0	391.1	412.3	421.1	390.7	396.2	415.3	100.0
Industry	144.3	148.4	148.5	154.9	154.4	157.3	160.6	161.8	165.6	170.2	41.0
Transport	0.7	0.9	1.0	1.1	1.3	1.3	1.4	1.3	1.4	1.4	0.3
Residential/Commercial	215.2	226.3	207.8	200.4	205.3	224.7	230.1	212.8	216.1	230.1	55.4
Refined products consumption	881.3	885.2	901.5	908.9	908.4	921.2	919.2	803.6	868.8	883.9	100.0
Gasoline	434.8	436.2	448.3	456.2	452.7	454.1	450.4	386.4	425.7	430.3	48.7
Diesel	223.1	230.3	225.5	221.5	225.1	231.6	226.4	204.9	218.8	225.2	25.5
Heating Oil	3.4	2.5	4.9	4.0	3.7	3.3	2.3	2.2	2.5	2.6	0.3
Aviation Jet	54.6	55.7	58.1	60.6	64.2	65.6	66.7	40.4	50.7	59.7	6.8
LPG	52.1	48.4	49.8	48.5	46.2	49.5	52.5	48.6	48.4	50.2	5.7
Imports	697.3	663.3	691.3	744.2	752.0	750.1	705.8	628.7	666.1	669.1	100.0
Oil	586.3	559.1	581.7	620.3	624.6	619.6	579.4	499.9	525.6	525.9	78.6
Gas	111.0	104.3	109.6	123.9	127.4	130.5	126.3	128.9	140.5	143.2	21.4
Gasoline	50.3	48.8	55.0	60.7	58.3	63.4	71.4	53.6	65.7	57.4	8.6
Diesel	15.5	18.8	20.5	19.9	22.8	26.4	24.7	22.9	25.8	23.3	3.5
Heating Oil	16.4	12.9	13.2	13.8	14.3	15.0	12.4	12.4	12.1	13.7	2.0
Aviation Jet	6.9	8.1	11.0	12.1	12.9	12.4	14.6	10.2	11.3	10.8	1.6
LPG	7.3	7.2	8.3	10.4	12.1	11.8	13.5	14.0	15.4	13.6	2.0
Exports	505.6	543.9	580.5	629.4	710.2	790.2	861.3	856.9	899.7	956.1	100.0
Oil	400.4	443.4	474.1	505.7	564.0	638.2	687.3	673.1	673.6	718.9	75.2
Gas	105.2	100.5	106.4	123.7	146.2	152.0	173.9	183.8	226.2	237.2	24.8
Gasoline	29.8	31.8	35.9	43.1	46.8	50.5	49.6	43.2	49.3	49.4	5.2
Diesel	64.8	61.5	65.8	66.3	76.8	70.9	74.1	68.6	63.1	73.9	7.7
Heating Oil	29.0	30.6	27.3	25.4	25.3	28.1	18.0	14.6	15.0	16.2	1.7
Aviation Jet	8.3	8.5	8.8	9.2	10.4	12.3	12.3	5.4	6.3	10.3	1.1
LPG	0.7	17.6	24.8	31.4	35.9	39.8	47.2	55.7	59.4	60.3	6.3
CO₂ Emissions (Million tons CO₂)	6,178.9	6,207.2	6,068.5	5,978.8	5,923.7	6,016.3	5,897.5	5,259.1	5,620.7	5,744.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	294.7	289.1	275.5	266.8	258.4	255.2	245.2	227.8	230.8	230.7	-
Final energy intensity (toe/million \$15ppp)	85.6	84.7	82.2	81.2	79.8	80.0	78.6	74.7	74.4	74.7	-
Total energy intensity (toe/million \$15ppp)	126.7	125.1	120.5	118.0	115.4	115.2	112.9	108.5	107.5	107.4	-

*Heat is included

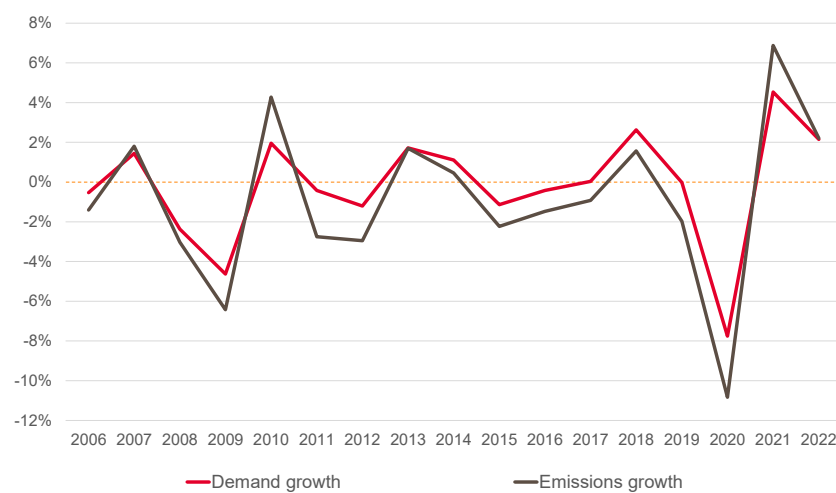
Primary energy demand mix



Electricity generation by source



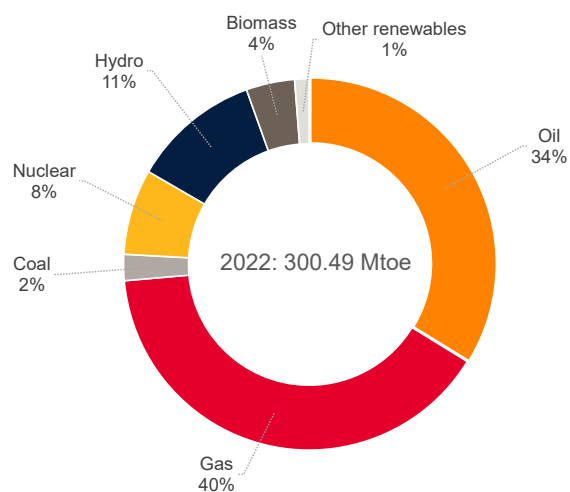
Primary energy demand and CO₂ emissions growth



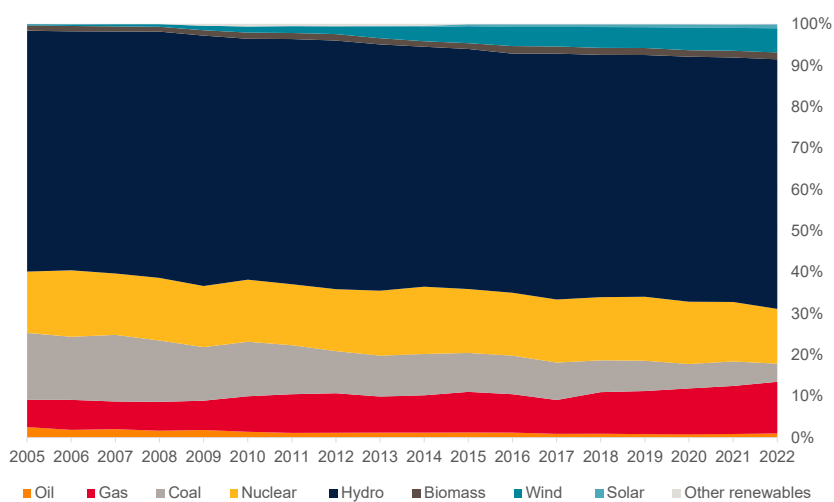
Canada (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	273.7	280.6	278.4	290.7	302.8	307.4	308.8	284.4	289.4	300.5	100.0
Oil	95.6	99.0	105.0	99.6	102.0	104.1	107.0	92.6	94.7	102.9	34.3
Gas	87.6	88.7	85.4	103.6	111.3	116.8	117.6	112.6	116.3	121.4	40.4
Coal	19.3	20.4	18.4	17.7	17.9	14.2	12.0	9.2	9.4	7.0	2.3
Nuclear	27.0	28.0	26.5	26.4	26.4	26.3	26.4	25.6	24.1	22.7	7.6
Hydro	33.7	32.9	32.9	33.1	33.9	33.2	32.8	33.2	32.8	34.1	11.3
Biomass	13.0	13.2	12.6	12.8	13.5	13.7	13.8	12.6	12.7	12.9	4.3
Other renewables	1.7	2.1	2.6	3.0	3.0	3.2	3.2	3.5	3.5	3.8	1.3
Electricity balance of trade*	-4.2	-3.7	-5.1	-5.4	-5.3	-4.1	-4.0	-4.9	-4.0	-4.4	-1.5
Total final consumption, by source	193.3	194.1	193.2	194.1	198.5	203.7	202.7	187.6	189.2	196.0	100.0
Oil	91.3	89.7	91.1	92.3	92.2	94.2	93.8	82.1	82.7	86.1	43.9
Gas	44.2	45.4	44.6	45.3	47.1	49.3	48.2	46.7	47.1	50.2	25.6
Coal	3.8	3.7	3.3	3.3	3.5	3.4	3.2	3.3	3.6	2.9	1.5
Electricity	42.7	43.4	43.2	42.7	44.4	45.3	45.9	45.0	45.3	46.1	23.5
Heat	0.7	0.9	0.7	0.7	0.7	0.8	0.6	0.5	0.5	0.5	0.2
Biomass	10.5	11.0	10.2	9.8	10.6	10.9	10.9	10.1	10.1	10.2	5.2
Electricity generation, by source	56.6	56.7	56.6	57.3	57.0	56.6	56.1	56.1	55.4	56.5	100.0
Oil	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.4	0.5	0.6	1.0
Gas	4.9	5.1	5.6	5.3	4.7	5.7	5.9	6.2	6.4	7.1	12.5
Coal	5.6	5.7	5.3	5.3	5.2	4.3	4.1	3.3	3.3	2.5	4.4
Nuclear	8.9	9.2	8.8	8.7	8.7	8.7	8.7	8.4	8.0	7.5	13.3
Hydro	33.7	32.9	32.9	33.2	33.9	33.2	32.8	33.2	32.8	34.1	60.4
Biomass	0.9	0.8	0.8	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.7
Wind	1.6	1.9	2.3	2.7	2.7	2.9	2.8	3.1	3.1	3.3	5.8
Solar	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.9
Other renewables	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	193.3	194.1	193.2	194.1	198.5	203.7	202.7	187.6	189.2	196.0	100.0
Industry	45.0	45.4	44.7	44.9	45.8	46.4	46.6	44.1	44.7	45.0	23.0
Transport	61.5	60.6	60.4	60.6	62.9	65.0	61.9	53.5	56.9	61.0	31.1
Residential/Commercial	57.6	59.8	58.4	58.0	61.4	64.3	63.9	62.1	62.2	65.1	33.2
Oil final consumption, by sector	91.3	89.7	91.1	92.3	92.2	94.2	93.8	82.1	82.7	86.1	100.0
Industry	4.4	4.1	4.7	4.8	5.3	5.2	5.4	4.6	4.0	3.8	4.5
Transport	59.5	58.5	58.3	58.5	60.6	62.6	59.6	51.4	54.7	58.5	68.0
Residential/Commercial	3.7	3.6	3.5	3.3	3.1	3.0	3.0	2.6	3.4	3.7	4.3
Natural gas final consumption, by sector	44.2	45.4	44.6	45.3	47.1	49.3	48.2	46.7	47.1	50.2	100.0
Industry	14.9	14.9	14.5	16.3	15.8	16.0	16.0	15.3	16.3	17.2	34.3
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	25.3	27.0	25.8	24.9	27.0	29.4	28.6	27.8	27.0	29.1	57.9
Refined products consumption	91.3	89.7	91.1	92.3	92.2	94.2	93.8	82.1	82.7	86.1	100.0
Gasoline	34.8	34.2	34.9	36.2	36.2	37.4	34.6	31.2	32.5	33.4	38.8
Diesel	27.3	27.1	27.0	25.4	27.5	28.1	27.4	25.4	26.6	27.2	31.6
Heating Oil	1.8	1.7	1.5	1.4	1.2	1.2	1.2	0.9	0.7	0.8	1.0
Aviation Jet	5.4	5.3	5.4	5.8	6.3	6.8	6.9	3.4	3.7	6.2	7.2
LPG	3.1	2.8	2.7	2.8	3.0	2.9	5.3	4.7	4.2	4.9	5.7
Imports	78.8	74.5	80.1	84.1	78.2	76.7	82.0	69.9	65.5	67.4	100.0
Oil	56.5	56.2	63.5	65.3	56.9	57.1	60.1	50.1	45.1	47.4	70.3
Gas	22.3	18.4	16.6	18.8	21.3	19.6	21.9	19.8	20.3	20.0	29.7
Gasoline	2.6	2.6	3.1	4.0	3.7	4.3	7.3	4.5	5.1	4.3	6.4
Diesel	1.2	1.5	1.9	2.1	1.1	2.2	1.2	0.8	1.1	0.9	1.4
Heating Oil	1.1	1.0	0.6	0.7	0.8	0.6	0.7	0.5	0.4	0.4	0.5
Aviation Jet	2.4	2.6	3.0	2.8	2.5	3.1	3.4	1.2	1.0	2.0	2.9
LPG	0.1	0.2	0.1	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0
Exports	234.1	240.4	250.8	263.6	274.7	286.0	295.7	278.9	293.3	301.5	100.0
Oil	165.0	174.6	185.2	192.5	202.9	218.7	231.4	219.4	226.6	229.5	76.1
Gas	69.1	65.8	65.7	71.0	71.8	67.2	64.3	59.5	66.7	72.0	23.9
Gasoline	6.6	6.5	7.7	7.8	8.7	7.0	8.2	6.9	6.7	4.4	1.5
Diesel	8.1	6.5	6.9	6.8	8.2	6.5	7.9	7.6	7.6	7.9	2.6
Heating Oil	4.4	3.5	3.0	2.9	2.8	3.6	1.8	0.8	1.3	1.1	0.3
Aviation Jet	0.5	0.4	0.5	0.5	1.2	1.2	1.1	0.4	0.4	0.4	0.1
LPG	0.6	0.7	0.4	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1
CO₂ Emissions (Million tons CO₂)	567.8	569.8	569.9	566.9	576.3	588.4	573.1	526.1	546.8	562.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	368.7	359.6	357.4	351.9	347.2	344.9	329.8	319.4	317.5	316.0	-
Final energy intensity (toe/million \$15ppp)	110.7	108.9	106.8	105.7	106.7	107.2	103.3	101.0	99.0	100.0	-
Total energy intensity (toe/million \$15ppp)	177.7	177.1	174.5	180.5	182.4	180.2	177.7	172.7	168.1	168.8	-

*Heat is included

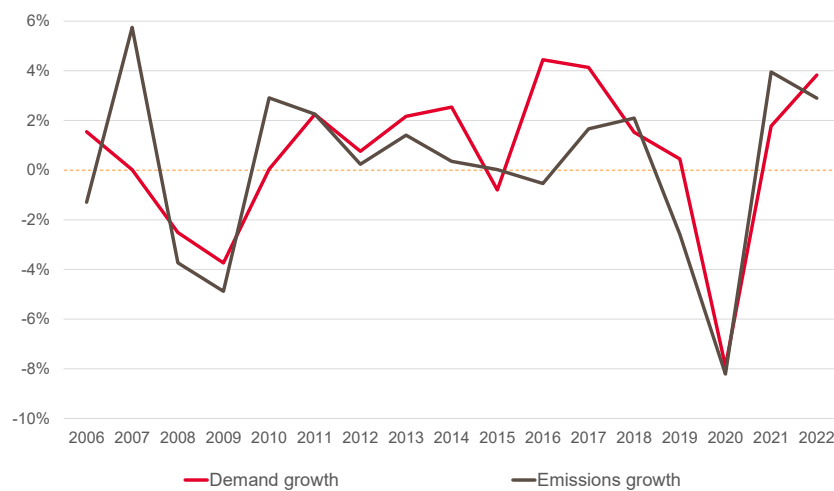
Primary energy demand mix



Electricity generation by source



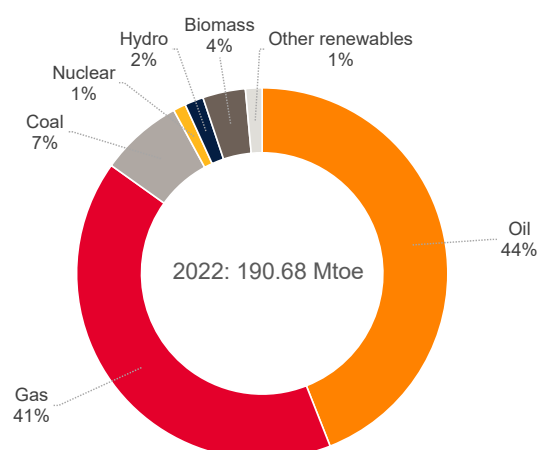
Primary energy demand and CO₂ emissions growth



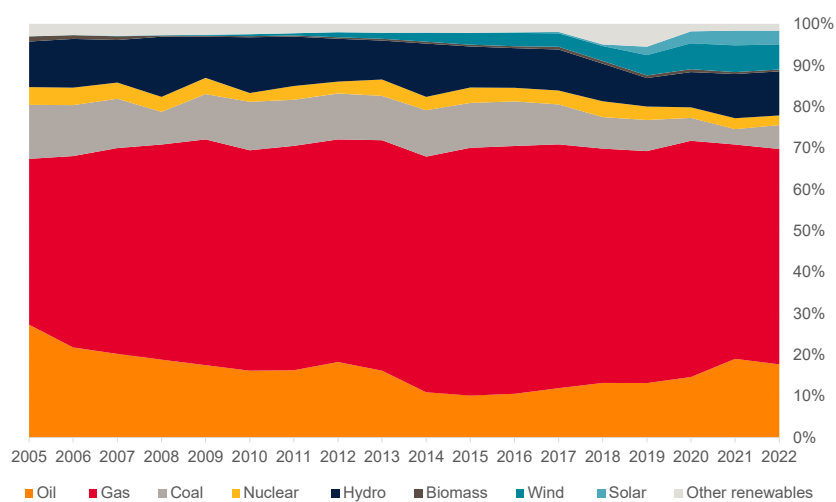
Mexico (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	192.1	188.4	185.0	184.9	180.7	185.0	183.5	174.3	183.3	190.7	100.0
Oil	98.9	96.8	90.4	88.0	85.9	79.8	83.1	69.0	78.5	82.6	43.3
Gas	62.2	60.5	64.7	66.2	62.6	72.5	68.7	77.4	78.2	76.6	40.2
Coal	12.9	12.7	11.4	12.4	12.7	12.3	11.8	8.8	8.4	13.5	7.1
Nuclear	3.1	2.5	3.0	2.8	2.8	3.6	2.9	2.1	2.3	2.1	1.1
Hydro	2.4	3.3	2.7	2.6	2.8	2.8	2.0	2.3	3.0	3.1	1.6
Biomass	9.0	8.7	8.6	8.7	9.7	8.6	8.7	8.8	7.1	7.0	3.7
Other renewables	0.4	0.6	0.8	0.9	1.0	1.2	2.1	2.5	2.8	2.7	1.4
Electricity balance of trade*	3.3	3.2	3.4	3.4	3.3	4.2	4.2	3.4	3.1	3.1	1.6
Total final consumption, by source	120.9	120.1	121.1	123.4	124.5	115.4	117.3	97.8	107.6	122.4	100.0
Oil	72.3	73.1	72.7	75.2	73.0	68.9	70.1	53.7	63.6	75.2	61.4
Gas	15.5	14.8	14.5	15.1	16.0	13.0	13.0	11.7	10.2	10.3	8.4
Coal	4.6	3.4	4.6	2.6	4.2	3.2	3.1	2.9	5.0	8.0	6.5
Electricity	20.8	21.7	22.1	23.3	23.4	23.5	24.1	22.3	22.8	23.3	19.0
Heat	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3
Biomass	7.6	7.0	6.9	6.9	7.8	6.4	6.7	6.9	5.6	5.3	4.3
Electricity generation, by source	25.6	25.9	26.7	27.6	27.7	30.8	29.6	27.1	28.0	28.8	100.0
Oil	4.1	2.8	2.7	2.9	3.3	4.1	3.9	4.0	5.3	5.1	17.7
Gas	14.3	14.8	16.0	16.5	16.3	17.4	16.6	15.5	14.5	15.0	52.1
Coal	2.7	2.9	2.9	3.0	2.7	2.3	2.2	1.5	1.0	1.7	5.8
Nuclear	1.0	0.8	1.0	0.9	0.9	1.2	1.0	0.7	0.7	0.7	2.4
Hydro	2.4	3.3	2.7	2.6	2.8	2.8	2.0	2.3	3.0	3.1	10.6
Biomass	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.5
Wind	0.4	0.6	0.8	0.9	0.9	1.1	1.5	1.7	1.8	1.8	6.1
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.6	0.8	1.0	1.0	3.3
Other renewables	0.5	0.5	0.5	0.5	0.5	1.5	1.6	0.5	0.4	0.4	1.5
Total final consumption, by sector	120.9	120.1	121.1	123.4	124.5	115.4	117.3	97.8	107.6	122.4	100.0
Industry	37.3	35.1	36.6	36.6	39.4	33.1	34.7	31.7	32.7	35.3	28.8
Transport	51.1	51.3	51.1	52.9	51.4	50.1	51.0	36.2	48.8	60.9	49.7
Residential/Commercial	23.0	23.6	24.1	24.3	24.2	23.2	23.1	22.3	19.3	19.5	15.9
Oil final consumption, by sector	72.3	73.1	72.7	75.2	73.0	68.9	70.1	53.7	63.6	75.2	100.0
Industry	5.8	5.7	6.2	7.0	6.4	4.3	5.3	4.8	4.1	3.3	4.5
Transport	51.0	51.2	51.0	52.8	51.3	49.9	50.9	36.1	48.7	60.7	80.7
Residential/Commercial	7.7	7.7	7.6	7.4	7.3	7.1	6.9	6.6	5.4	5.7	7.6
Natural gas final consumption, by sector	15.5	14.8	14.5	15.1	16.0	13.0	13.0	11.7	10.2	10.3	100.0
Industry	13.8	12.9	12.9	13.5	14.5	11.6	11.7	10.6	9.1	9.2	89.2
Transport	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4
Residential/Commercial	1.0	1.1	1.1	1.0	1.0	1.0	0.9	0.8	0.9	0.9	8.7
Refined products consumption	72.3	73.1	72.7	75.2	73.0	68.9	70.1	53.7	63.6	75.2	100.0
Gasoline	35.2	34.7	35.4	36.8	35.6	34.9	35.8	26.5	34.0	39.7	52.7
Diesel	19.0	19.5	19.0	19.6	18.6	18.0	17.6	11.4	16.4	24.1	32.1
Heating Oil	0.6	0.5	0.5	0.8	0.7	0.2	0.2	0.2	0.2	0.1	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	10.1	10.1	9.9	9.9	9.9	9.7	9.0	8.7	7.1	7.4	9.9
Imports	51.2	54.1	65.2	78.6	87.0	98.5	94.9	94.5	101.6	101.8	100.0
Oil	29.2	30.5	35.1	43.1	51.3	54.3	53.9	44.5	48.7	51.2	50.3
Gas	22.0	23.6	30.2	35.6	35.7	44.2	41.0	50.0	52.9	50.6	49.7
Gasoline	15.5	16.1	18.6	22.0	23.2	25.7	25.7	20.6	22.0	22.5	22.1
Diesel	5.4	6.7	7.4	9.5	12.9	14.0	12.4	9.5	9.8	12.7	12.5
Heating Oil	1.7	0.7	0.9	1.4	2.2	1.8	2.3	0.5	0.0	0.0	0.0
Aviation Jet	0.2	0.6	1.1	1.6	2.1	2.7	2.8	1.3	2.2	2.7	2.6
LPG	3.0	3.3	3.9	5.1	6.3	5.5	6.9	8.9	9.9	8.0	7.8
Exports	76.3	74.1	72.0	75.1	73.0	73.3	67.6	69.2	65.3	63.3	100.0
Oil	76.3	74.0	72.0	75.1	73.0	73.3	67.6	69.2	65.3	63.3	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.5	0.1	0.3	0.8	0.2	0.2	0.6	0.8	0.3	0.9	1.4
Heating Oil	5.2	7.0	6.8	6.2	5.7	5.3	3.8	6.0	8.6	9.5	15.0
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	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	458.5	443.6	451.3	457.3	456.3	426.5	432.5	360.2	396.6	446.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	218.4	205.5	202.4	199.8	195.2	178.6	181.4	164.5	172.9	188.7	-
Final energy intensity (toe/million \$15ppp)	54.9	52.7	51.9	51.5	51.0	46.4	47.4	42.6	45.2	50.5	-
Total energy intensity (toe/million \$15ppp)	91.5	87.3	82.9	80.8	77.3	77.4	77.0	79.6	79.9	80.6	-

*Heat is included

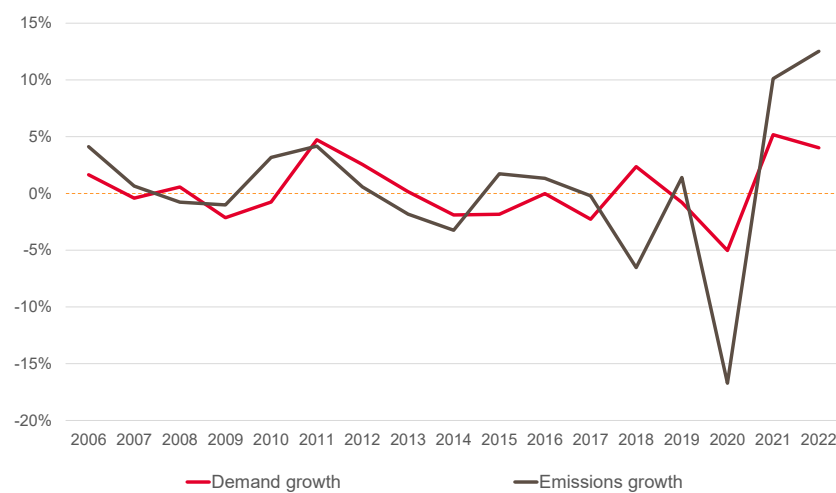
Primary energy demand mix



Electricity generation by source



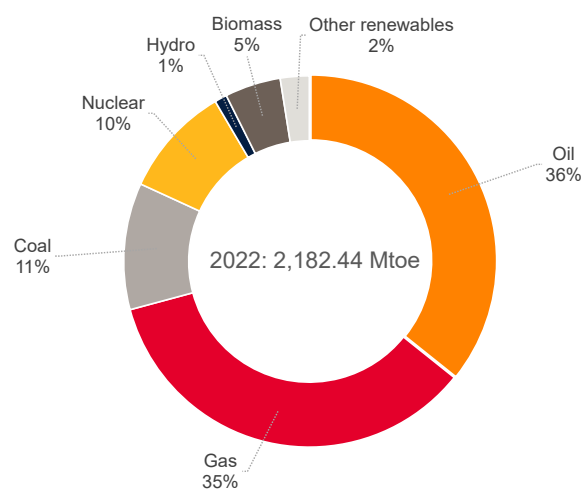
Primary energy demand and CO₂ emissions growth



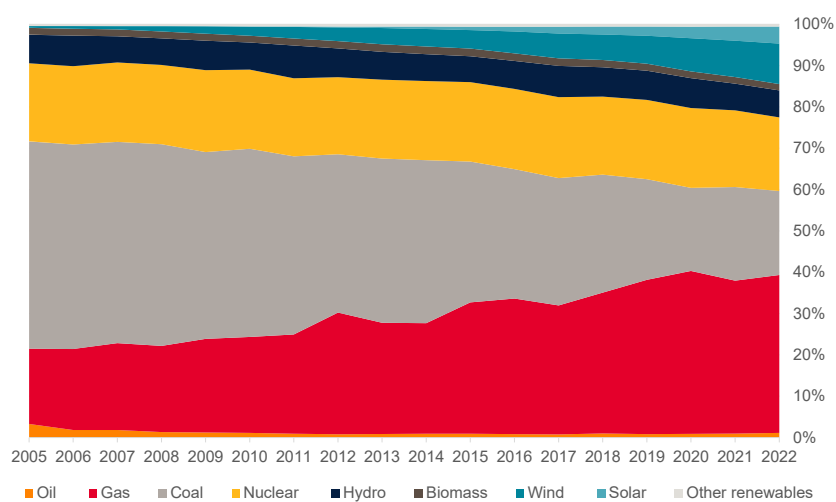
United States (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	2,190.9	2,217.2	2,192.3	2,168.7	2,161.8	2,222.3	2,221.9	2,045.2	2,144.7	2,182.4	100.0
Oil	777.7	777.3	793.4	788.5	794.9	806.3	800.2	707.5	766.8	773.5	35.4
Gas	606.6	627.6	646.6	652.8	643.9	693.7	742.3	719.0	720.9	758.8	34.8
Coal	432.4	431.7	373.5	340.8	330.4	320.2	274.5	221.2	254.1	238.8	10.9
Nuclear	214.2	216.5	216.4	218.9	218.6	219.3	219.8	214.5	211.3	209.5	9.6
Hydro	23.3	22.5	21.6	23.2	26.0	25.4	24.9	24.7	22.5	23.5	1.1
Biomass	102.7	105.5	101.5	101.1	101.4	107.6	108.7	100.0	105.0	105.1	4.8
Other renewables	16.1	18.5	20.3	24.7	28.8	31.7	34.6	40.2	46.5	54.6	2.5
Electricity balance of trade*	17.8	17.7	19.1	18.7	17.7	18.1	16.9	17.9	17.6	18.6	0.9
Total final consumption, by source	1,480.9	1,503.5	1,497.5	1,503.1	1,507.5	1,566.2	1,569.7	1,439.8	1,514.7	1,540.8	100.0
Oil	720.1	724.9	741.9	744.4	747.6	763.7	763.8	677.0	733.6	733.7	47.6
Gas	320.4	335.5	319.6	320.6	328.0	350.1	359.8	332.3	338.9	354.7	23.0
Coal	27.1	26.9	23.7	21.2	20.6	20.7	19.2	15.9	16.0	16.1	1.0
Electricity	323.9	325.9	325.2	328.0	323.0	335.5	329.4	324.9	331.6	341.1	22.1
Heat	8.3	8.1	8.0	8.9	8.0	9.8	9.1	9.0	8.9	8.8	0.6
Biomass	81.2	82.3	79.1	79.9	80.2	86.5	88.4	80.7	85.7	86.3	5.6
Electricity generation, by source	370.3	373.3	371.3	371.7	368.6	383.2	377.7	366.4	375.9	387.8	100.0
Oil	3.2	3.4	3.3	3.0	2.8	3.7	3.1	3.2	3.6	4.3	1.1
Gas	99.6	99.9	118.0	122.0	115.0	130.7	141.0	144.5	139.1	148.2	38.2
Coal	147.3	147.3	126.5	116.4	113.6	109.4	92.0	73.6	85.2	78.8	20.3
Nuclear	70.7	71.4	71.4	72.2	72.1	72.4	72.5	70.8	69.7	69.1	17.8
Hydro	24.9	24.2	23.3	25.1	28.0	27.3	26.7	26.5	24.3	25.3	6.5
Biomass	6.7	7.0	6.9	6.8	6.8	6.7	6.3	6.1	6.0	5.9	1.5
Wind	14.6	15.8	16.6	19.7	22.1	23.7	25.6	29.4	33.0	38.0	9.8
Solar	1.4	2.2	3.1	4.3	6.1	7.3	8.4	10.3	12.9	16.0	4.1
Other renewables	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.1	2.1	0.5
Total final consumption, by sector	1,480.9	1,503.5	1,497.5	1,503.1	1,507.5	1,566.2	1,569.7	1,439.8	1,514.7	1,540.8	100.0
Industry	271.3	271.3	269.7	272.4	267.7	278.4	277.4	272.9	283.6	288.5	18.7
Transport	578.6	579.0	600.1	607.0	611.7	621.2	618.4	529.3	574.8	579.0	37.6
Residential/Commercial	482.6	495.2	476.0	470.5	466.1	500.8	500.9	481.1	493.7	515.0	33.4
Oil final consumption, by sector	720.1	724.9	741.9	744.4	747.6	763.7	763.8	677.0	733.6	733.7	100.0
Industry	20.1	17.5	19.2	19.9	18.1	19.4	16.7	18.0	20.4	20.8	2.8
Transport	542.0	542.1	562.5	566.6	570.2	580.3	577.2	492.3	535.5	540.0	73.6
Residential/Commercial	26.0	24.2	26.4	26.0	24.1	24.5	23.9	22.7	25.7	25.7	3.5
Natural gas final consumption, by sector	320.4	335.5	319.6	320.6	328.0	350.1	359.8	332.3	338.9	354.7	100.0
Industry	115.5	120.6	121.0	125.1	124.1	129.6	132.9	135.9	140.2	143.8	40.5
Transport	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.2	1.3	1.2	0.4
Residential/Commercial	188.9	198.1	180.9	174.5	177.3	194.3	200.5	184.2	188.2	200.1	56.4
Refined products consumption	717.6	722.4	737.6	741.4	743.2	758.1	755.3	687.9	722.4	722.6	100.0
Gasoline	364.8	367.4	377.9	383.3	380.8	381.7	380.1	328.7	359.2	357.2	49.4
Diesel	176.9	183.7	179.5	176.5	179.0	185.5	181.3	168.1	175.8	173.9	24.1
Heating Oil	1.0	0.3	2.9	1.8	1.8	1.9	0.9	1.1	1.5	1.7	0.2
Aviation Jet	49.2	50.4	52.8	54.8	57.9	58.8	59.8	37.0	47.0	53.6	7.4
LPG	38.9	35.6	37.3	35.7	33.3	36.9	38.1	35.2	37.1	37.9	5.2
Imports	567.4	534.7	546.0	581.5	586.8	575.0	528.8	464.3	499.1	499.8	100.0
Oil	500.6	472.4	483.1	511.9	516.4	508.2	465.4	405.3	431.8	427.4	85.5
Gas	66.7	62.3	62.9	69.5	70.4	66.8	63.4	59.0	67.3	72.5	14.5
Gasoline	32.2	30.0	33.3	34.6	31.3	33.4	38.4	28.4	38.6	30.6	6.1
Diesel	8.9	10.6	11.2	8.4	8.8	10.1	11.1	12.5	14.9	9.7	1.9
Heating Oil	13.6	11.2	11.7	11.6	11.3	12.6	9.4	11.4	11.7	13.3	2.7
Aviation Jet	4.4	4.9	6.9	7.6	8.3	6.7	8.4	7.7	8.2	6.1	1.2
LPG	4.2	3.7	4.3	5.0	5.6	6.1	6.6	5.1	5.6	5.7	1.1
Exports	195.2	229.4	257.7	290.8	362.5	430.9	497.9	508.8	541.1	591.3	100.0
Oil	159.1	194.8	217.0	238.1	288.1	346.1	388.3	384.5	381.6	426.1	72.1
Gas	36.1	34.7	40.7	52.7	74.4	84.8	109.6	124.3	159.5	165.2	27.9
Gasoline	23.2	25.3	28.3	35.3	38.1	43.4	41.5	36.3	42.6	45.0	7.6
Diesel	56.3	54.9	58.5	58.7	68.5	64.2	65.5	60.2	55.3	65.1	11.0
Heating Oil	19.4	20.1	17.5	16.3	16.8	19.2	12.4	7.8	5.1	5.7	1.0
Aviation Jet	7.8	8.1	8.3	8.7	9.2	11.1	11.2	5.0	5.9	9.9	1.7
LPG	0.0	17.0	24.4	31.0	35.6	39.6	47.0	55.5	59.1	60.2	10.2
CO₂ Emissions (Million tons CO₂)	5,152.7	5,193.8	5,047.3	4,954.6	4,891.1	5,001.5	4,891.9	4,372.8	4,677.2	4,735.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	297.3	293.0	277.2	267.7	258.4	256.8	245.5	227.2	230.0	228.1	-
Final energy intensity (toe/million \$15ppp)	77.9	76.9	74.9	73.8	72.0	72.8	70.9	67.4	67.2	67.2	-
Total energy intensity (toe/million \$15ppp)	126.4	125.1	120.4	117.2	114.2	114.1	111.5	106.3	105.5	105.1	-

*Heat is included

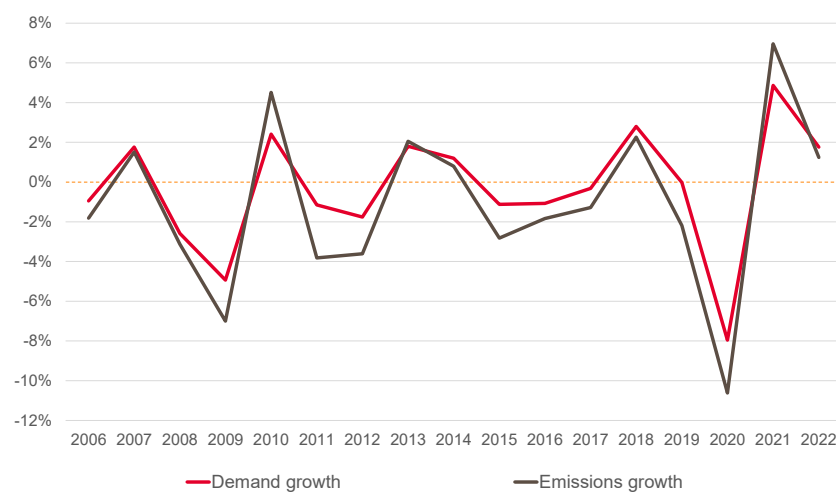
Primary energy demand mix



Electricity generation by source



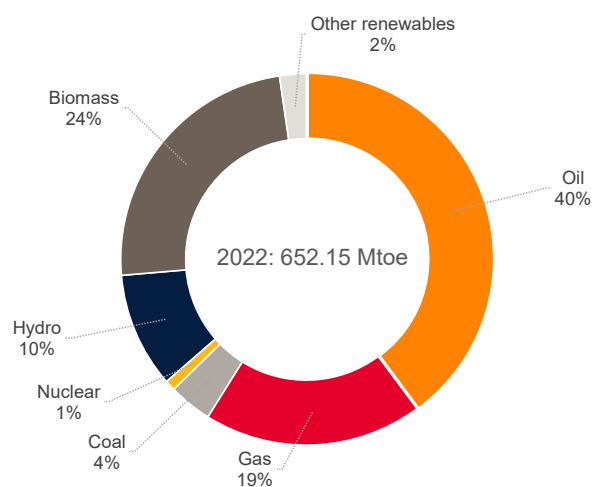
Primary energy demand and CO₂ emissions growth



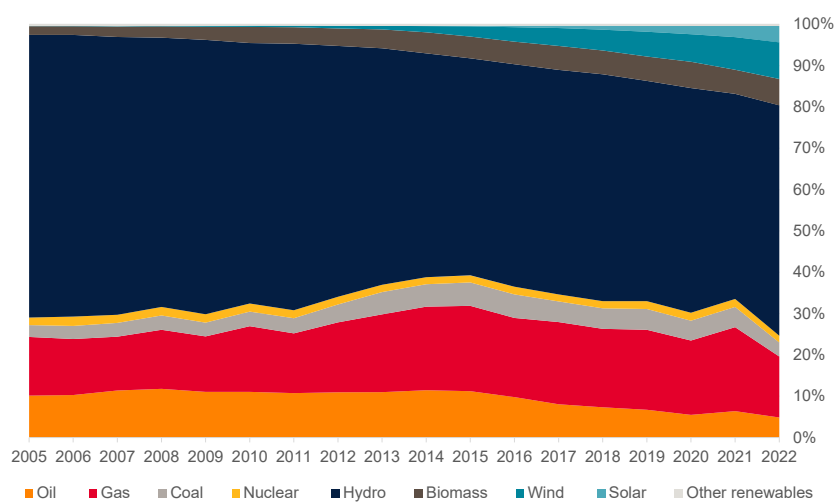
South and Central America (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	666.9	668.1	665.7	654.5	654.8	635.5	641.4	600.8	633.8	652.1	100.0
Oil	293.1	290.8	282.0	274.0	270.0	249.5	251.7	224.3	249.7	258.0	39.6
Gas	140.6	145.6	145.6	140.1	141.3	137.3	135.9	122.6	132.6	123.4	18.9
Coal	32.0	33.1	34.1	32.6	32.0	31.3	32.1	28.7	30.5	24.4	3.7
Nuclear	5.6	5.4	5.7	6.3	5.7	5.9	6.4	6.5	6.7	5.9	0.9
Hydro	60.8	57.3	57.4	58.9	59.8	61.3	59.6	59.5	57.1	65.1	10.0
Biomass	129.8	130.1	133.9	134.0	136.0	138.9	142.4	144.3	139.5	155.7	23.9
Other renewables	0.9	1.6	2.9	4.2	5.4	6.7	8.3	9.5	12.2	15.0	2.3
Electricity balance of trade*	4.1	4.1	4.2	4.4	4.5	4.7	5.0	5.5	5.6	4.6	0.7
Total final consumption, by source	493.1	492.8	487.4	483.5	486.4	483.1	482.3	454.4	483.4	513.8	100.0
Oil	232.7	233.0	224.0	223.7	224.9	218.1	219.8	198.2	221.4	237.5	46.2
Gas	61.4	60.2	60.2	58.0	56.9	58.2	55.0	48.7	50.6	51.8	10.1
Coal	16.8	17.0	16.6	14.7	16.2	16.6	14.9	14.5	16.3	14.7	2.9
Electricity	85.9	86.3	87.8	87.8	88.3	89.5	89.8	88.1	92.1	93.9	18.3
Heat	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.4	0.3
Biomass	95.7	95.6	98.0	98.4	99.3	99.6	101.7	103.8	101.7	114.5	22.3
Electricity generation, by source	106.3	105.8	109.3	109.5	110.1	111.7	111.9	109.5	115.1	117.0	100.0
Oil	11.6	12.1	12.3	10.7	8.9	8.2	7.5	6.0	7.3	5.7	4.9
Gas	20.0	21.4	22.6	21.0	21.9	21.2	21.7	19.7	23.4	17.2	14.7
Coal	5.7	5.7	6.2	6.2	5.5	5.5	5.6	5.2	5.6	4.0	3.4
Nuclear	1.9	1.8	1.9	2.1	1.9	1.9	2.1	2.1	2.2	1.9	1.7
Hydro	60.8	57.3	57.4	58.9	59.8	61.3	59.6	59.6	57.1	65.2	55.8
Biomass	4.9	5.4	5.8	6.0	6.4	6.4	6.6	7.0	6.7	7.5	6.4
Wind	0.9	1.6	2.7	3.9	4.8	5.6	6.7	7.3	9.1	10.3	8.8
Solar	0.0	0.1	0.2	0.4	0.6	1.1	1.6	2.2	3.1	4.6	4.0
Other renewables	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4
Total final consumption, by sector	493.1	492.8	487.4	483.5	486.4	483.1	482.3	454.4	483.4	513.8	100.0
Industry	159.2	155.7	149.8	146.4	148.5	145.9	140.3	139.4	142.7	147.7	28.8
Transport	168.0	171.3	171.5	170.2	171.9	172.1	176.2	154.4	173.5	188.3	36.6
Residential/Commercial	109.5	109.6	111.2	112.2	111.5	113.2	112.4	111.6	114.7	122.8	23.9
Oil final consumption, by sector	232.7	233.0	224.0	223.7	224.9	218.1	219.8	198.2	221.4	237.5	100.0
Industry	31.3	30.3	27.0	25.6	25.5	25.1	24.3	22.9	24.4	24.8	10.5
Transport	145.2	146.7	143.7	144.1	145.6	142.8	144.3	127.0	145.2	159.4	67.1
Residential/Commercial	17.9	17.9	17.4	18.0	18.0	18.1	17.7	17.4	18.4	18.6	7.8
Natural gas final consumption, by sector	61.4	60.2	60.2	58.0	56.9	58.2	55.0	48.7	50.6	51.8	100.0
Industry	29.0	28.2	27.3	25.4	25.5	25.8	23.4	20.8	21.2	21.5	41.5
Transport	5.7	5.9	5.9	5.8	5.7	5.8	5.9	4.5	5.4	5.5	10.7
Residential/Commercial	14.9	14.7	14.8	15.0	14.3	14.5	13.7	13.5	13.2	13.8	26.6
Refined products consumption	232.4	232.7	223.7	223.4	224.7	217.9	219.6	198.0	221.2	237.5	100.0
Gasoline	64.6	65.9	64.6	65.7	67.2	63.5	63.6	53.9	63.1	71.2	30.0
Diesel	95.5	95.9	93.5	92.5	92.8	93.8	94.2	88.9	98.5	104.5	44.0
Heating Oil	12.9	10.8	8.6	8.3	7.8	7.0	6.6	6.2	6.9	5.6	2.4
Aviation Jet	5.8	5.8	5.9	5.4	5.4	5.6	5.6	2.9	3.8	5.3	2.2
LPG	21.8	22.0	21.1	21.9	21.4	20.3	20.3	20.0	21.1	21.4	9.0
Imports	188.3	188.0	181.7	175.2	175.7	171.4	164.8	141.5	169.1	175.6	100.0
Oil	158.1	156.0	151.5	151.1	151.9	149.0	144.2	120.7	140.4	155.5	88.5
Gas	30.2	32.0	30.2	24.1	23.7	22.5	20.6	20.8	28.7	20.1	11.5
Gasoline	13.5	14.0	15.6	17.8	20.5	18.8	21.1	19.9	23.2	29.1	16.6
Diesel	41.2	40.7	37.5	41.7	43.1	42.2	42.2	38.8	46.2	53.7	30.5
Heating Oil	13.4	13.1	12.9	13.3	13.2	12.7	14.0	11.7	13.3	12.7	7.3
Aviation Jet	4.7	4.8	5.2	4.8	5.2	5.3	5.6	2.6	3.3	5.6	3.2
LPG	7.2	7.6	6.9	7.5	7.9	8.6	8.8	9.0	9.6	8.6	4.9
Exports	293.4	299.9	299.6	285.5	276.0	259.9	231.2	220.4	205.3	215.7	100.0
Oil	254.8	262.7	265.0	253.4	244.4	228.1	200.9	192.7	182.9	189.7	87.9
Gas	38.6	37.2	34.6	32.1	31.5	31.8	30.3	27.8	22.4	26.1	12.1
Gasoline	7.4	6.3	8.1	7.7	5.9	6.0	4.6	4.8	4.4	1.3	0.6
Diesel	5.0	5.2	4.3	5.0	3.9	4.4	2.9	3.5	3.2	3.5	1.6
Heating Oil	28.4	27.6	26.0	24.8	24.1	24.1	16.8	18.9	17.8	22.5	10.4
Aviation Jet	4.7	5.1	4.7	3.2	2.7	2.1	1.4	1.3	1.1	1.4	0.6
LPG	2.7	2.4	2.3	2.2	2.1	2.5	2.5	2.3	2.1	2.3	1.1
CO₂ Emissions (Million tons CO₂)	1,224.0	1,245.4	1,229.3	1,191.5	1,172.2	1,144.2	1,125.6	1,009.4	1,108.1	1,111.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	168.9	170.6	169.3	167.6	163.6	158.8	156.5	151.0	154.9	149.3	-
Final energy intensity (toe/million \$15ppp)	68.1	67.5	67.1	68.0	67.9	67.0	67.0	68.0	67.6	69.0	-
Total energy intensity (toe/million \$15ppp)	92.0	91.5	91.7	92.0	91.4	88.2	89.2	89.9	88.6	87.6	-

*Heat is included

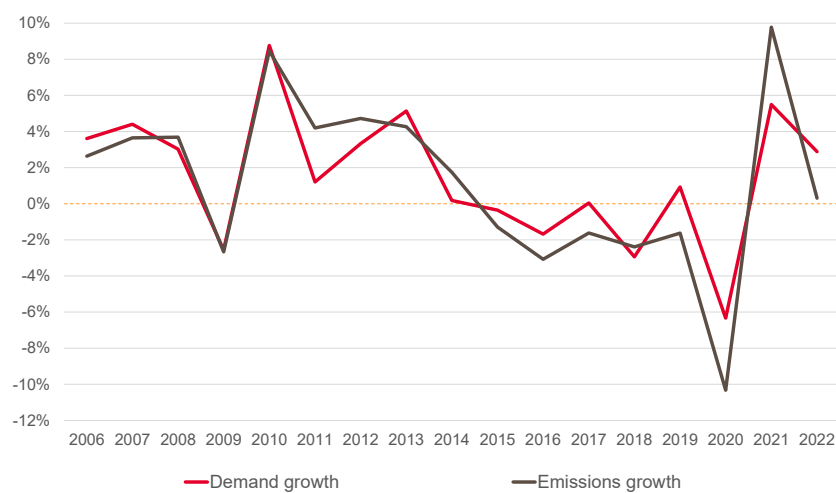
Primary energy demand mix



Electricity generation by source



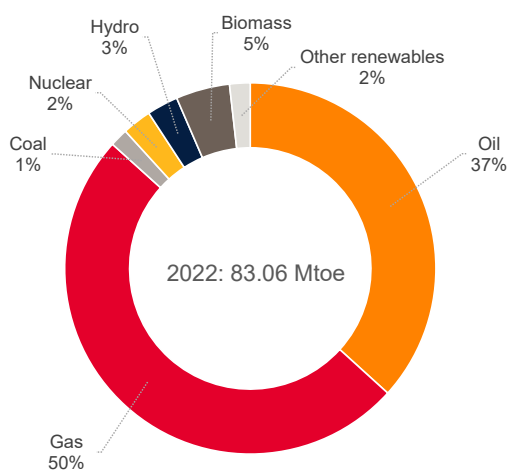
Primary energy demand and CO₂ emissions growth



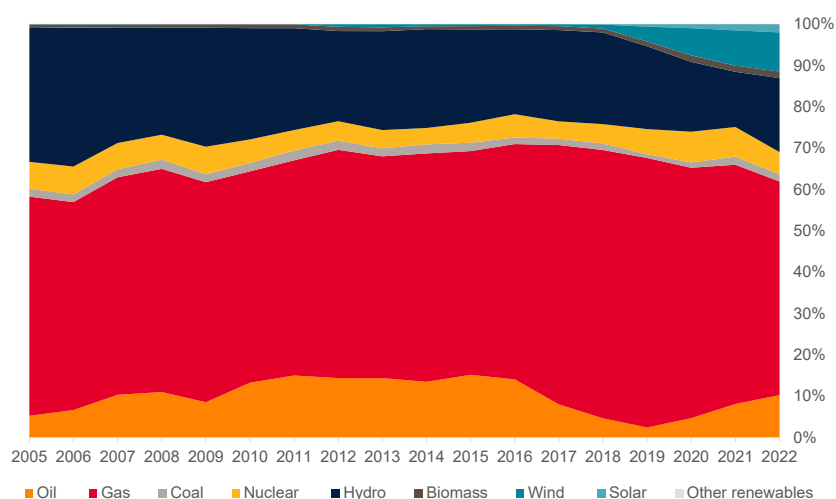
Argentina (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	81.4	81.5	82.8	82.3	82.3	80.0	79.3	73.8	79.5	83.1	100.0
Oil	30.0	29.8	29.7	28.9	27.7	26.0	25.9	23.5	28.6	30.1	36.3
Gas	41.9	42.0	42.9	43.4	44.3	43.5	42.7	40.0	40.2	41.0	49.3
Coal	1.2	1.5	1.4	1.1	1.2	1.3	0.7	0.9	1.2	1.3	1.6
Nuclear	1.6	1.4	1.8	2.2	1.6	1.8	2.2	2.8	2.8	2.1	2.5
Hydro	2.8	2.8	2.8	2.6	2.7	2.8	2.4	2.0	1.7	2.2	2.7
Biomass	3.0	3.1	3.3	3.4	3.8	3.7	3.9	3.3	3.4	3.9	4.6
Other renewables	0.1	0.1	0.1	0.0	0.1	0.1	0.5	0.9	1.3	1.5	1.8
Electricity balance of trade*	0.7	0.8	0.8	0.8	0.9	0.8	0.9	0.4	0.2	1.1	1.3
Total final consumption, by source	57.0	56.5	57.5	56.9	56.6	56.9	56.1	51.0	53.9	57.2	100.0
Oil	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.9	22.9	24.6	43.1
Gas	20.7	20.6	21.1	20.7	19.4	19.6	19.5	18.7	16.8	17.5	30.7
Coal	1.0	1.1	1.0	0.8	0.9	1.0	0.7	0.7	0.9	1.0	1.7
Electricity	10.4	10.9	11.4	11.3	11.1	11.1	10.8	10.7	11.1	11.5	20.1
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	2.2	2.5	2.5	2.6	2.9	3.0	3.0	2.0	2.2	2.5	4.4
Electricity generation, by source	12.0	11.9	12.5	12.7	12.5	12.6	12.0	12.4	13.0	12.9	100.0
Oil	1.7	1.6	1.9	1.8	1.0	0.6	0.3	0.6	1.1	1.3	10.3
Gas	6.4	6.6	6.8	7.2	7.9	8.2	7.8	7.5	7.5	6.6	51.7
Coal	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.3	0.2	1.8
Nuclear	0.5	0.5	0.6	0.7	0.5	0.6	0.7	0.9	0.9	0.7	5.3
Hydro	2.9	2.9	2.8	2.6	2.8	2.8	2.4	2.1	1.7	2.3	17.9
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	1.6
Wind	0.1	0.1	0.1	0.0	0.1	0.1	0.4	0.8	1.1	1.2	9.5
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	2.0
Other renewables	0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	57.0	56.5	57.5	56.9	56.6	56.9	56.1	51.0	53.9	57.2	100.0
Industry	13.2	13.7	13.9	13.0	12.8	13.6	13.7	13.4	12.0	12.2	21.4
Transport	16.6	15.7	16.5	16.4	16.9	17.3	17.2	13.2	16.5	18.1	31.7
Residential/Commercial	19.4	19.2	19.6	20.0	18.9	18.7	18.0	17.7	18.2	19.2	33.6
Oil final consumption, by sector	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.9	22.9	24.6	100.0
Industry	0.8	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.9	0.9	3.8
Transport	13.2	12.1	12.7	12.6	13.2	13.8	13.6	10.8	13.6	14.9	60.6
Residential/Commercial	1.9	1.8	1.8	1.7	1.6	1.5	1.6	1.5	1.8	1.8	7.5
Natural gas final consumption, by sector	20.7	20.6	21.1	20.7	19.4	19.6	19.5	18.7	16.8	17.5	100.0
Industry	6.5	6.7	7.0	6.5	6.1	6.6	7.1	6.9	5.3	5.4	30.7
Transport	2.3	2.4	2.5	2.3	2.1	2.0	2.0	1.6	1.9	2.0	11.2
Residential/Commercial	11.0	10.7	10.8	11.0	10.3	10.2	9.7	9.6	9.0	9.7	55.1
Refined products consumption	22.7	21.6	21.6	21.5	22.3	22.2	22.2	18.9	22.9	24.6	100.0
Gasoline	5.6	5.2	5.6	5.7	6.1	6.4	6.2	4.5	5.9	6.8	27.4
Diesel	11.2	10.0	10.3	10.2	10.4	10.3	10.2	9.0	10.9	11.5	46.8
Heating Oil	0.4	0.4	0.4	0.2	0.1	0.1	0.4	0.8	1.1	0.6	2.4
Aviation Jet	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.2	0.2	0.4	1.8
LPG	2.2	2.0	1.9	1.9	1.8	1.7	1.7	1.5	1.9	2.0	7.9
Imports	15.3	15.3	14.0	14.1	14.5	12.7	8.7	7.8	11.2	10.8	100.0
Oil	5.9	4.9	4.5	5.0	4.9	4.6	3.0	1.7	4.3	5.7	52.9
Gas	9.5	10.4	9.6	9.1	9.5	8.2	5.7	6.0	6.9	5.1	47.1
Gasoline	0.3	0.3	0.0	0.2	0.3	0.5	0.4	0.1	0.4	0.9	8.1
Diesel	4.3	3.2	3.3	3.6	3.1	2.7	2.0	1.4	3.4	4.0	37.0
Heating Oil	0.6	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.3	0.7	6.0
Aviation Jet	0.0	0.1	0.1	0.1	0.1	0.2	0.2	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	4.6	4.5	4.1	4.6	4.0	6.5	7.2	7.6	6.7	8.2	100.0
Oil	4.6	4.4	4.0	4.5	3.9	6.2	7.0	7.4	6.0	7.6	91.6
Gas	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.2	0.7	0.7	8.4
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Diesel	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Heating Oil	0.2	0.2	0.0	0.0	0.4	0.6	0.8	0.7	0.1	0.2	1.9
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	0.9	1.0	0.9	1.0	1.0	1.2	1.3	1.1	1.0	1.1	13.2
CO₂ Emissions (Million tons CO₂)	177.7	174.1	180.2	179.1	174.8	171.4	163.7	149.9	165.7	174.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	205.2	206.3	207.8	210.9	200.2	201.6	196.5	199.7	200.3	200.1	-
Final energy intensity (toe/million \$15ppp)	61.6	62.0	62.2	62.7	60.2	62.5	63.0	63.3	61.1	61.5	-
Total energy intensity (toe/million \$15ppp)	94.0	96.6	95.4	96.9	94.3	94.1	95.2	98.4	96.1	95.4	-

*Heat is included

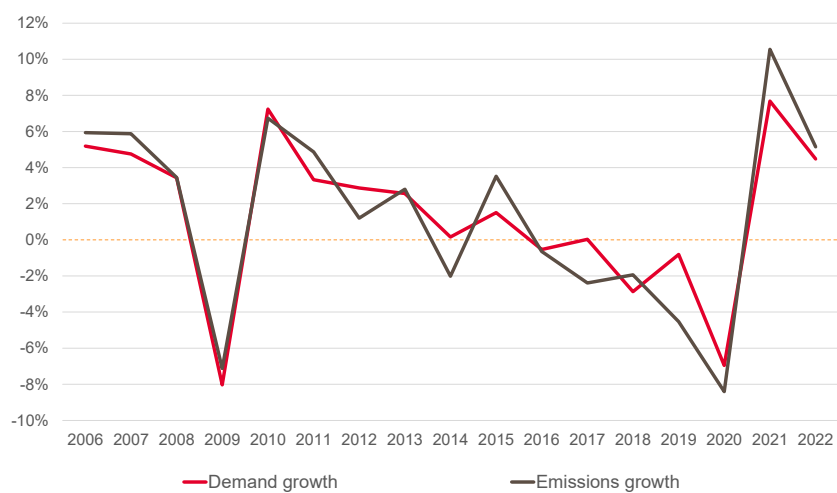
Primary energy demand mix



Electricity generation by source



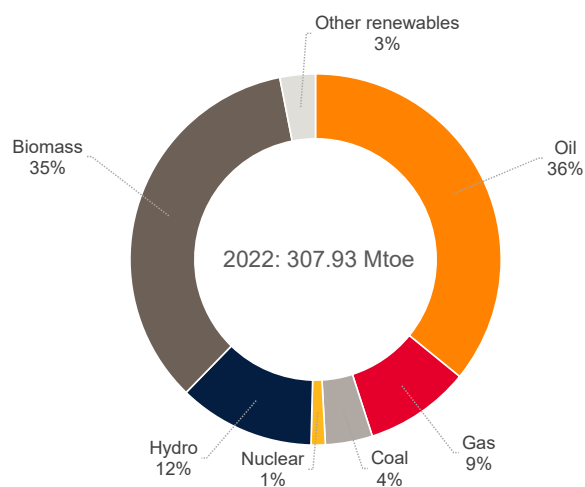
Primary energy demand and CO₂ emissions growth



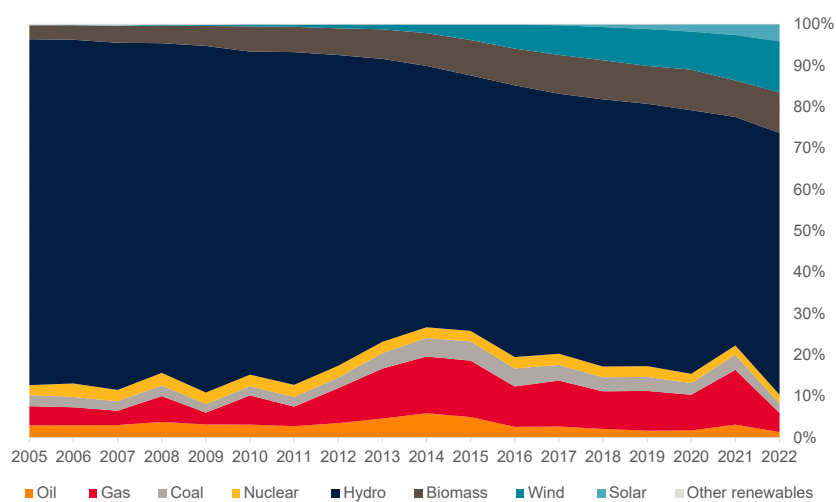
Brazil (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	295.3	304.6	298.6	287.8	293.4	289.2	294.1	287.7	300.6	307.9	100.0
Oil	120.4	124.4	115.5	109.7	111.0	103.9	105.4	99.5	107.6	109.7	35.6
Gas	33.9	37.4	37.2	31.5	33.4	31.5	31.8	30.1	36.7	28.1	9.1
Coal	16.5	17.5	17.7	15.9	16.8	16.4	15.5	14.0	17.0	12.5	4.1
Nuclear	4.0	4.0	3.8	4.1	4.1	4.1	4.2	3.7	3.8	3.8	1.2
Hydro	33.6	32.1	30.9	32.8	31.9	33.5	34.2	34.1	31.2	36.4	11.8
Biomass	82.2	84.5	87.9	86.5	88.3	91.4	94.4	97.3	93.4	105.9	34.4
Other renewables	0.6	1.1	1.9	2.9	3.7	4.5	5.4	5.8	7.7	9.4	3.1
Electricity balance of trade*	4.1	3.6	3.7	4.4	4.1	4.0	3.2	3.2	3.2	2.0	0.7
Total final consumption, by source	232.9	237.1	232.3	228.3	232.8	228.6	230.5	226.0	236.2	249.4	100.0
Oil	107.7	109.7	102.8	101.5	102.4	96.4	97.9	92.5	99.4	104.4	41.9
Gas	12.8	12.5	12.7	11.7	11.9	12.3	11.2	9.6	11.4	11.6	4.7
Coal	11.5	11.7	11.7	10.3	11.6	11.9	10.9	10.3	11.8	10.0	4.0
Electricity	41.8	43.0	42.2	42.3	42.9	43.6	44.1	43.7	45.7	46.3	18.6
Heat	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	0.5
Biomass	58.5	59.6	62.2	61.9	63.2	63.5	65.5	68.8	66.8	75.8	30.4
Electricity generation, by source	49.1	50.8	50.0	49.8	50.7	51.7	53.9	53.4	56.4	57.5	100.0
Oil	2.3	3.0	2.5	1.3	1.3	1.1	0.9	0.9	1.8	0.8	1.3
Gas	5.9	7.0	6.8	4.9	5.6	4.7	5.2	4.6	7.5	2.7	4.6
Coal	1.8	2.3	2.3	2.2	1.9	1.8	1.8	1.5	2.1	1.3	2.2
Nuclear	1.3	1.3	1.3	1.4	1.4	1.3	1.4	1.2	1.3	1.3	2.2
Hydro	33.6	32.1	30.9	32.8	31.9	33.5	34.2	34.1	31.2	36.4	63.3
Biomass	3.5	4.0	4.3	4.4	4.8	4.9	4.9	5.2	5.0	5.6	9.8
Wind	0.6	1.1	1.9	2.9	3.6	4.2	4.8	4.9	6.2	7.1	12.3
Solar	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.9	1.4	2.4	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	232.9	237.1	232.3	228.3	232.8	228.6	230.5	226.0	236.2	249.4	100.0
Industry	86.8	85.7	83.1	82.1	83.7	79.6	77.5	80.5	83.3	86.8	34.8
Transport	83.6	86.7	84.7	82.6	83.5	83.0	85.8	80.2	85.9	90.3	36.2
Residential/Commercial	36.3	38.1	38.3	38.1	38.8	40.1	40.8	40.5	41.3	44.9	18.0
Oil final consumption, by sector	107.7	109.7	102.8	101.5	102.4	96.4	97.9	92.5	99.4	104.4	100.0
Industry	12.6	12.7	11.5	11.0	10.8	9.4	9.9	9.3	9.8	10.1	9.7
Transport	67.4	69.3	64.3	63.9	64.4	60.9	61.4	58.1	63.8	68.0	65.1
Residential/Commercial	7.2	7.3	7.2	7.3	7.3	7.2	7.2	7.4	7.3	7.2	6.9
Natural gas final consumption, by sector	12.8	12.5	12.7	11.7	11.9	12.3	11.2	9.6	11.4	11.6	100.0
Industry	9.7	9.7	9.9	8.9	9.0	9.2	8.3	7.2	8.7	8.8	76.0
Transport	1.6	1.6	1.6	1.6	1.7	1.9	2.0	1.7	1.9	2.0	17.1
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	5.1
Refined products consumption	107.7	109.7	102.8	101.5	102.4	96.4	97.9	92.5	99.4	104.4	100.0
Gasoline	24.4	25.7	23.3	24.2	24.8	21.6	21.5	20.1	22.1	24.2	23.2
Diesel	45.1	45.7	43.6	42.2	42.4	41.9	42.7	42.5	45.8	47.3	45.3
Heating Oil	3.7	3.8	3.0	3.3	2.9	2.3	2.3	2.2	2.3	2.2	2.1
Aviation Jet	3.6	3.7	3.6	3.3	3.3	3.4	3.3	1.9	2.5	3.4	3.3
LPG	8.2	8.4	8.1	8.3	8.3	8.2	8.1	8.4	8.3	8.2	7.9
Imports	58.8	59.9	53.0	40.9	45.1	44.2	45.4	39.9	50.4	48.0	100.0
Oil	43.8	42.9	36.8	30.5	35.7	34.9	36.8	31.4	35.6	40.1	83.6
Gas	14.9	17.0	16.2	10.3	9.4	9.3	8.6	8.5	14.8	7.9	16.4
Gasoline	1.7	1.6	2.3	2.9	3.5	2.5	3.7	3.8	2.1	3.8	7.9
Diesel	8.5	9.6	5.9	7.2	11.0	9.9	11.0	10.2	12.2	13.5	28.2
Heating Oil	0.1	0.4	0.3	0.1	0.1	0.3	0.1	0.0	0.6	0.2	0.4
Aviation Jet	1.5	1.2	1.1	0.8	0.5	0.7	0.9	0.3	0.3	1.1	2.2
LPG	2.1	2.3	2.0	2.1	2.0	2.1	2.2	2.2	2.5	2.1	4.5
Exports	27.6	33.5	44.0	49.4	59.8	64.2	72.1	84.8	77.3	80.1	100.0
Oil	27.6	33.5	44.0	49.4	59.8	64.2	72.1	84.8	77.3	80.1	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	0.3	0.3	0.5	0.6	0.4	1.1	1.6	1.8	1.4	0.4	0.5
Diesel	0.3	0.3	0.1	0.4	0.4	0.8	0.0	0.3	0.0	0.1	0.1
Heating Oil	5.7	5.1	4.4	3.6	3.8	5.3	6.0	10.7	9.7	12.2	15.2
Aviation Jet	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
LPG	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	465.3	491.1	466.7	432.9	441.4	416.1	417.8	395.8	447.5	419.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	149.6	157.1	154.8	148.5	149.4	138.4	137.3	135.3	146.2	133.3	-
Final energy intensity (toe/million \$15ppp)	69.8	70.9	72.2	73.4	73.9	71.5	71.2	73.2	73.1	75.1	-
Total energy intensity (toe/million \$15ppp)	95.0	97.4	99.1	98.7	99.3	96.2	96.6	98.3	98.2	97.8	-

*Heat is included

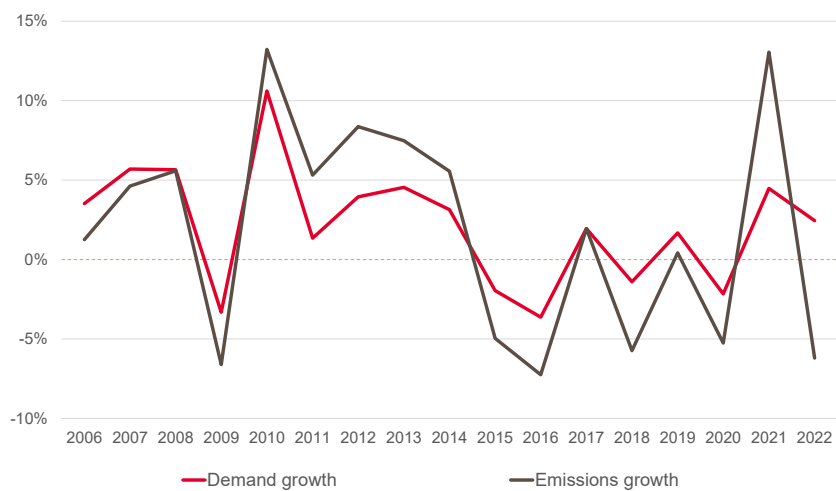
Primary energy demand mix



Electricity generation by source



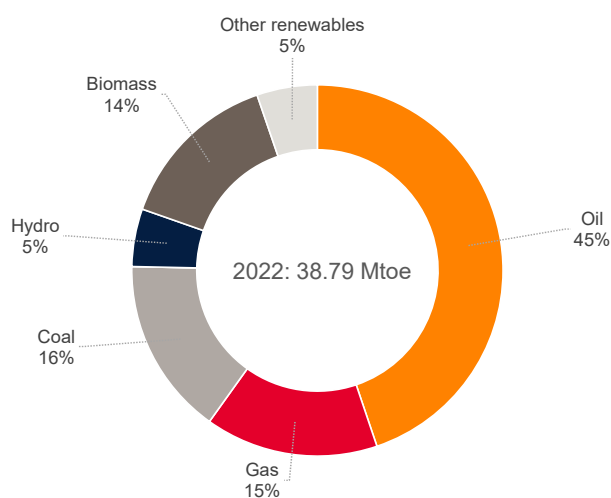
Primary energy demand and CO₂ emissions growth



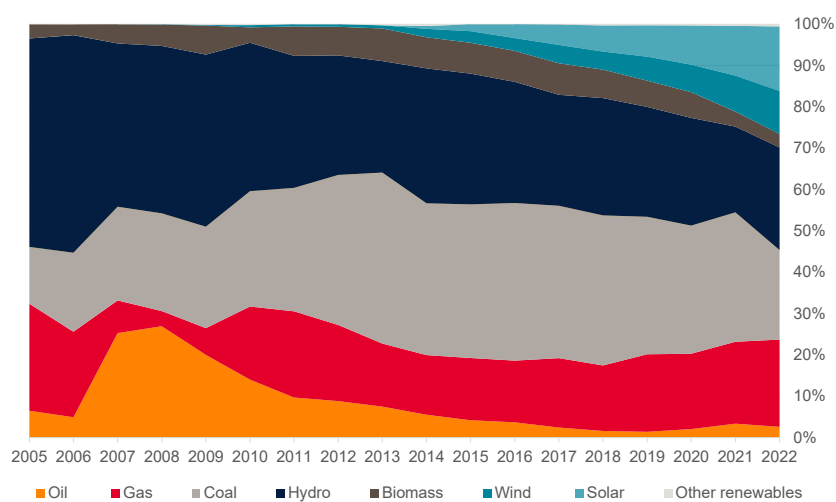
Chile (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	38.5	34.8	35.5	37.8	38.4	39.1	41.4	37.9	38.3	38.8	100.0
Oil	15.8	15.4	15.3	16.1	16.0	16.4	16.5	15.2	16.4	17.2	44.3
Gas	4.1	3.6	4.0	4.3	4.3	4.4	5.3	4.8	5.3	5.8	14.9
Coal	6.5	6.1	6.6	7.1	7.3	7.1	8.2	6.7	7.5	5.9	15.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.7	2.0	2.1	2.0	1.8	2.0	1.9	1.9	1.6	1.9	5.0
Biomass	10.3	7.4	7.3	7.8	8.1	8.2	8.2	7.9	5.7	5.5	14.2
Other renewables	0.0	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	5.2
Electricity balance of trade*	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.5	1.2
Total final consumption, by source	26.7	24.9	25.0	26.4	26.7	27.7	28.2	26.8	27.5	28.3	100.0
Oil	13.5	13.6	13.8	14.8	15.2	15.5	15.3	14.5	15.4	16.2	57.0
Gas	1.4	1.3	1.5	1.7	1.7	2.0	2.4	2.1	2.2	2.3	8.0
Coal	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	1.0
Electricity	5.6	5.8	5.8	6.0	6.0	6.3	6.4	6.4	6.6	6.7	23.7
Heat	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	5.8	3.9	3.6	3.5	3.3	3.5	3.6	3.4	2.9	2.9	10.1
Electricity generation, by source	6.3	6.1	6.5	6.8	6.8	7.1	7.3	7.2	7.5	7.8	100.0
Oil	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.2	2.6
Gas	1.0	0.9	1.0	1.0	1.1	1.1	1.4	1.3	1.5	1.6	21.1
Coal	2.6	2.2	2.4	2.6	2.5	2.6	2.4	2.2	2.4	1.7	21.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.7	2.0	2.1	2.0	1.8	2.0	1.9	1.9	1.6	1.9	24.8
Biomass	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	3.3
Wind	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	10.4
Solar	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.2	15.6
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	26.7	24.9	25.0	26.4	26.7	27.7	28.2	26.8	27.5	28.3	100.0
Industry	10.0	10.5	10.5	10.7	10.2	10.7	10.6	10.4	10.0	10.1	35.7
Transport	8.2	8.1	8.5	8.9	9.2	9.5	9.7	8.6	9.5	10.1	35.6
Residential/Commercial	7.6	5.5	5.5	6.0	6.1	6.1	6.3	6.2	6.5	6.6	23.2
Oil final consumption, by sector	13.5	13.6	13.8	14.8	15.2	15.5	15.3	14.5	15.4	16.2	100.0
Industry	3.3	3.7	3.9	3.8	3.6	3.6	3.5	3.6	3.6	3.7	22.6
Transport	8.2	8.0	8.4	8.8	9.1	9.4	9.5	8.5	9.3	9.9	61.6
Residential/Commercial	1.4	1.2	1.2	1.6	1.8	1.8	1.7	1.7	1.8	1.8	11.4
Natural gas final consumption, by sector	1.4	1.3	1.5	1.7	1.7	2.0	2.4	2.1	2.2	2.3	100.0
Industry	0.7	0.6	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	43.2
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	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	30.2
Refined products consumption	13.5	13.6	13.8	14.8	15.2	15.5	15.3	14.5	15.4	16.2	100.0
Gasoline	3.1	3.3	3.3	3.5	3.5	3.5	3.6	3.0	3.7	4.0	24.9
Diesel	7.1	6.8	7.5	8.0	8.2	8.5	8.5	8.3	8.4	8.8	54.2
Heating Oil	1.0	0.9	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	2.8
Aviation Jet	0.3	0.4	0.6	0.5	0.5	0.6	0.7	0.4	0.4	0.6	3.4
LPG	1.4	1.5	1.2	1.4	1.5	1.5	1.5	1.6	1.6	1.6	10.1
Imports	20.6	19.3	19.4	20.7	20.6	21.0	21.7	19.5	21.9	23.6	100.0
Oil	17.3	16.4	16.3	17.1	17.1	17.5	17.6	15.7	17.6	18.9	80.2
Gas	3.3	2.9	3.1	3.7	3.5	3.5	4.0	3.8	4.3	4.7	19.8
Gasoline	0.6	0.5	0.5	0.5	0.6	0.6	0.3	0.4	0.8	1.6	6.9
Diesel	5.1	5.1	5.4	5.8	5.4	5.7	5.7	6.0	6.1	7.1	29.9
Heating Oil	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Aviation Jet	0.5	0.4	0.5	0.6	0.7	0.6	0.5	0.2	0.5	0.7	3.0
LPG	1.2	1.1	0.9	1.2	1.2	1.2	1.1	1.3	1.4	1.5	6.6
Exports	0.9	0.6	0.5	0.7	0.7	0.9	0.5	0.6	0.9	1.3	100.0
Oil	0.9	0.6	0.5	0.4	0.5	0.7	0.5	0.6	0.9	1.3	100.0
Gas	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Gasoline	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8
Diesel	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.5	37.6
Heating Oil	0.2	0.1	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.5	34.6
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	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.3	21.5
CO₂ Emissions (Million tons CO₂)	82.6	76.7	81.5	86.1	87.0	86.8	92.5	85.6	90.9	87.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	211.9	193.2	201.1	208.7	207.9	199.7	211.1	207.6	197.6	186.2	-
Final energy intensity (toe/million \$15ppp)	66.9	61.0	61.1	62.6	62.4	62.1	62.3	62.6	57.9	58.1	-
Total energy intensity (toe/million \$15ppp)	98.7	87.5	87.6	91.7	91.8	89.8	94.4	92.1	83.3	82.3	-

*Heat is included

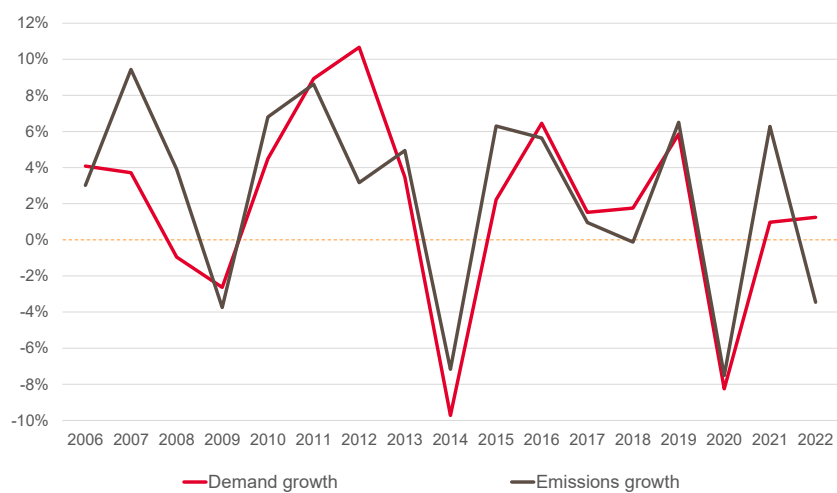
Primary energy demand mix



Electricity generation by source



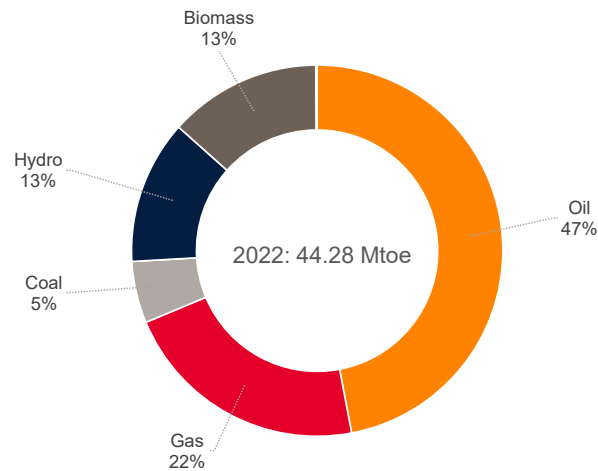
Primary energy demand and CO₂ emissions growth



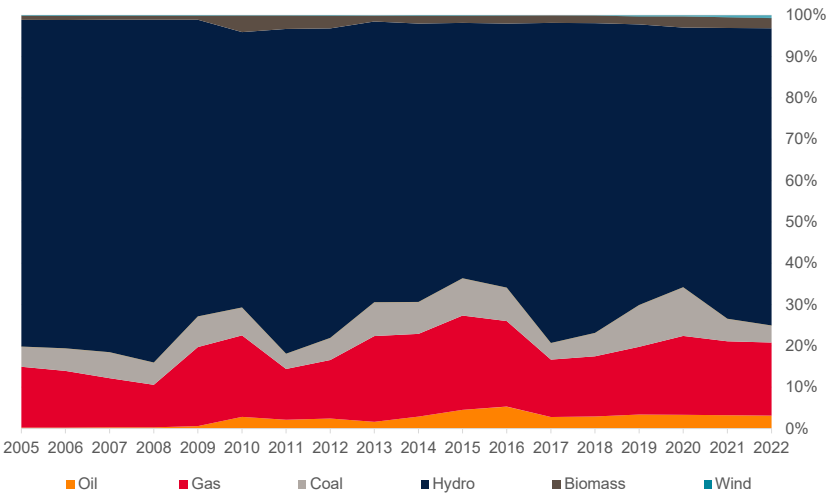
Colombia (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	39.9	40.4	40.9	42.4	40.6	39.1	42.8	40.1	43.1	44.3	100.0
Oil	14.8	14.8	15.3	17.3	16.0	15.0	17.3	15.3	20.0	20.8	47.0
Gas	9.8	10.3	10.1	9.6	9.8	10.2	10.6	10.5	9.7	9.6	21.7
Coal	5.0	5.1	5.4	5.5	4.2	3.8	4.8	4.4	2.5	2.4	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	4.3	4.1	4.2	4.2	5.3	5.2	4.7	4.3	5.2	5.5	12.5
Biomass	6.1	6.2	6.0	5.8	5.4	5.0	5.4	5.4	5.7	5.9	13.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Electricity balance of trade*	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.0	-0.0
Total final consumption, by source	28.8	29.5	29.1	30.7	29.7	29.1	30.5	28.4	33.1	34.6	100.0
Oil	11.9	12.2	12.1	13.5	12.7	12.6	14.0	12.0	15.7	16.7	48.4
Gas	3.5	3.5	3.8	4.0	4.0	4.1	3.4	3.2	3.4	3.3	9.4
Coal	2.8	2.8	2.5	2.5	2.6	2.6	2.3	2.6	2.8	2.9	8.4
Electricity	4.8	5.0	5.1	5.2	5.3	5.3	5.8	5.6	6.1	6.3	18.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	5.8	5.9	5.6	5.5	5.0	4.6	5.0	4.9	5.1	5.3	15.4
Electricity generation, by source	6.4	6.1	6.8	6.6	6.8	6.9	6.9	6.8	7.4	7.7	100.0
Oil	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	3.1
Gas	1.3	1.2	1.5	1.4	0.9	1.0	1.1	1.3	1.3	1.4	17.7
Coal	0.5	0.5	0.6	0.5	0.3	0.4	0.7	0.8	0.4	0.3	4.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.3	4.1	4.2	4.2	5.3	5.2	4.7	4.3	5.2	5.5	71.9
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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	0.6
Other renewables	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	28.8	29.5	29.1	30.7	29.7	29.1	30.5	28.4	33.1	34.6	100.0
Industry	7.7	7.7	7.2	7.5	7.9	7.6	7.7	7.3	8.1	8.3	24.0
Transport	8.9	9.3	10.0	10.4	10.4	10.7	11.2	9.7	12.4	13.5	39.2
Residential/Commercial	8.3	8.5	8.2	8.2	8.0	8.1	8.2	8.7	9.0	9.2	26.6
Oil final consumption, by sector	11.9	12.2	12.1	13.5	12.7	12.6	14.0	12.0	15.7	16.7	100.0
Industry	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.7	0.8	4.6
Transport	7.7	8.0	8.7	9.2	9.3	9.5	10.0	8.7	11.3	12.3	73.8
Residential/Commercial	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.6	0.6	3.6
Natural gas final consumption, by sector	3.5	3.5	3.8	4.0	4.0	4.1	3.4	3.2	3.4	3.3	100.0
Industry	1.4	1.2	1.1	1.4	1.4	1.4	1.3	1.2	1.3	1.2	37.9
Transport	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.4	11.9
Residential/Commercial	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.5	46.1
Refined products consumption	11.8	12.2	12.1	13.5	12.7	12.6	14.0	12.0	15.7	16.7	100.0
Gasoline	3.6	3.8	4.3	4.9	4.9	5.0	5.4	4.7	6.1	6.9	41.3
Diesel	6.4	6.5	6.1	6.1	5.4	5.9	5.9	5.2	6.7	7.1	42.5
Heating Oil	0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.1	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	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.8	0.8	4.6
Imports	7.8	9.1	6.6	9.0	6.6	4.6	5.6	4.3	5.9	7.1	100.0
Oil	7.8	9.1	6.6	9.0	6.6	4.6	5.5	4.0	5.7	6.8	96.2
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.3	3.8
Gasoline	1.2	1.5	1.5	2.3	2.2	1.1	1.1	1.4	2.5	3.0	42.2
Diesel	4.2	4.5	2.7	3.5	1.5	0.6	1.3	1.3	1.2	1.4	20.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	4.2
Aviation Jet	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.8
LPG	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.3
Exports	46.1	45.7	43.9	37.5	37.8	36.6	35.2	34.7	29.7	31.3	100.0
Oil	44.5	44.9	43.6	37.5	37.8	36.6	35.2	34.7	29.7	31.3	100.0
Gas	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	0.0
Diesel	0.7	0.0	0.0	0.7	0.9	1.6	2.1	2.4	1.9	1.6	5.2
Heating Oil	3.7	3.4	2.4	2.7	2.4	1.9	1.6	1.2	1.4	1.8	5.9
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	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	72.5	74.3	75.5	79.5	71.7	75.3	75.8	75.4	78.6	80.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	123.8	121.4	119.8	123.6	110.0	112.6	109.8	117.5	110.8	106.1	-
Final energy intensity (toe/million \$15ppp)	47.1	46.2	44.6	44.8	43.2	42.2	41.1	42.2	43.8	42.7	-
Total energy intensity (toe/million \$15ppp)	68.1	66.0	64.9	65.9	62.3	58.5	62.0	62.5	60.8	58.1	-

*Heat is included

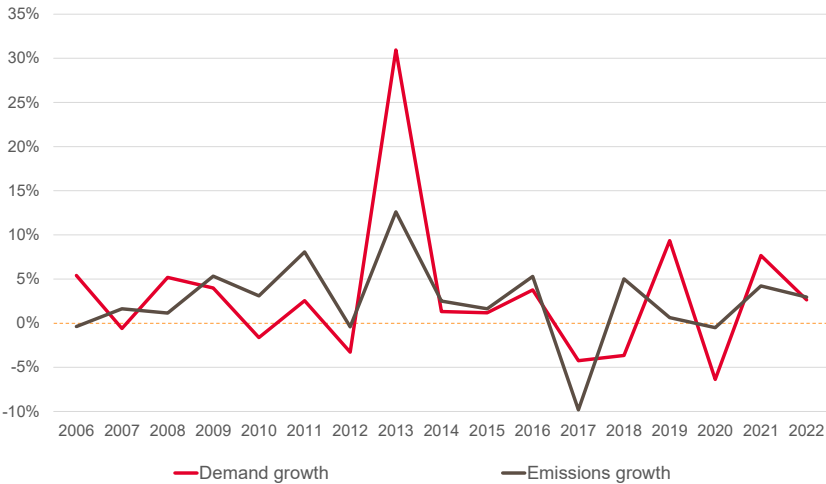
Primary energy demand mix



Electricity generation by source



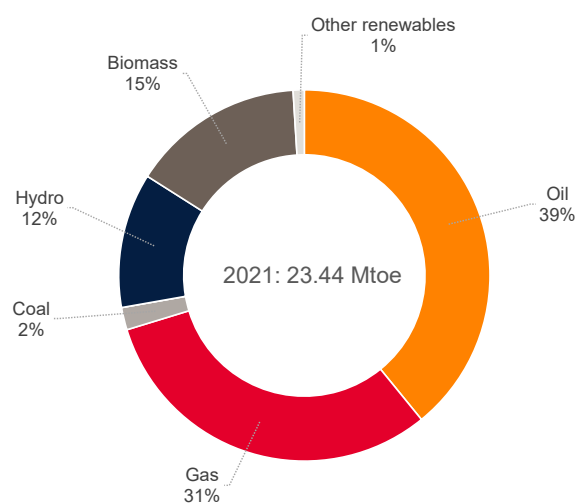
Primary energy demand and CO₂ emissions growth



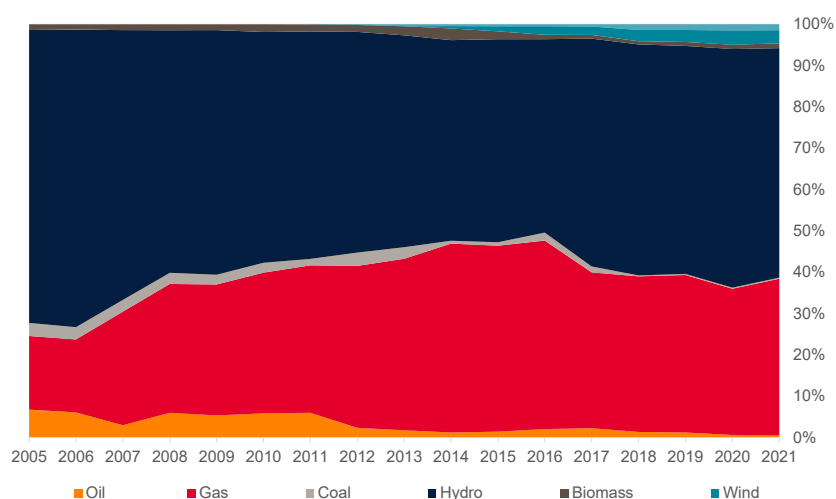
Peru (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2021 (%)
Total primary energy demand, by source	20.8	21.9	22.6	23.6	23.9	25.0	25.9	21.9	23.4	n.d.	100.0
Oil	7.9	7.5	8.3	8.7	10.2	10.8	11.3	8.7	9.2	n.d.	39.1
Gas	6.4	8.0	7.9	8.3	7.0	7.3	7.6	6.4	7.3	n.d.	31.1
Coal	0.9	0.8	0.8	0.8	0.7	0.6	0.7	0.5	0.5	n.d.	2.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	1.9	1.9	2.0	2.1	2.5	2.6	2.7	2.6	2.7	n.d.	11.7
Biomass	3.7	3.7	3.5	3.5	3.3	3.4	3.4	3.4	3.5	n.d.	15.0
Other renewables	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	n.d.	1.0
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.2
Total final consumption, by source	17.8	17.6	18.6	19.1	19.2	20.1	20.7	17.7	18.9	n.d.	100.0
Oil	8.8	8.6	9.2	9.6	9.8	10.1	10.5	8.6	9.3	n.d.	49.1
Gas	2.0	1.9	1.9	1.9	2.1	2.3	2.4	1.8	2.0	n.d.	10.5
Coal	0.6	0.6	0.7	0.6	0.5	0.5	0.5	0.3	0.3	n.d.	1.6
Electricity	3.3	3.4	3.6	3.9	4.0	4.2	4.3	3.9	4.3	n.d.	22.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.2
Biomass	3.2	3.1	3.1	3.2	2.8	3.0	2.9	3.0	3.0	n.d.	16.1
Electricity generation, by source	3.7	3.9	4.1	4.4	4.5	4.7	4.9	4.5	4.9	n.d.	100.0
Oil	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	n.d.	0.5
Gas	1.6	1.8	1.9	2.0	1.7	1.8	1.9	1.6	1.9	n.d.	37.9
Coal	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	n.d.	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	1.9	1.9	2.0	2.1	2.5	2.6	2.7	2.6	2.7	n.d.	55.5
Biomass	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	n.d.	1.2
Wind	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	n.d.	3.2
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	n.d.	1.4
Other renewables	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	-0.0	n.d.	-0.0
Total final consumption, by sector	17.8	17.6	18.6	19.1	19.2	20.1	20.7	17.7	18.9	n.d.	100.0
Industry	5.1	5.1	5.3	5.2	5.4	5.7	5.9	4.9	5.3	n.d.	28.0
Transport	6.9	6.9	7.5	8.2	8.3	8.6	9.1	7.0	7.5	n.d.	39.7
Residential/Commercial	5.0	5.0	5.0	5.0	5.0	5.3	5.2	5.4	5.8	n.d.	30.4
Oil final consumption, by sector	8.8	8.6	9.2	9.6	9.8	10.1	10.5	8.6	9.3	n.d.	100.0
Industry	1.3	1.3	1.2	1.0	0.9	1.1	1.0	1.0	1.1	n.d.	11.3
Transport	6.0	5.9	6.5	7.2	7.3	7.5	8.0	6.2	6.7	n.d.	72.2
Residential/Commercial	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.3	n.d.	14.2
Natural gas final consumption, by sector	2.0	1.9	1.9	1.9	2.1	2.3	2.4	1.8	2.0	n.d.	100.0
Industry	1.2	1.0	1.1	1.1	1.3	1.2	1.3	1.0	1.1	n.d.	54.0
Transport	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.5	0.5	n.d.	27.1
Residential/Commercial	0.2	0.2	0.2	0.1	0.1	0.3	0.4	0.3	0.4	n.d.	18.7
Refined products consumption	8.8	8.6	9.2	9.6	9.8	10.1	10.5	8.6	9.3	n.d.	100.0
Gasoline	1.4	1.5	1.6	1.8	1.9	2.0	2.1	1.6	1.8	n.d.	19.3
Diesel	4.7	4.6	5.1	5.2	5.1	5.2	5.4	4.6	4.7	n.d.	50.9
Heating Oil	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	1.1
Aviation Jet	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.1	0.3	n.d.	2.9
LPG	1.7	1.7	1.8	1.9	2.0	2.1	2.2	2.0	2.2	n.d.	23.7
Imports	7.4	6.9	7.6	9.4	11.8	11.3	10.5	7.2	8.9	n.d.	100.0
Oil	7.4	6.9	7.6	9.4	11.8	11.3	10.5	7.2	8.9	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	0.4	0.1	0.2	0.0	0.9	1.0	0.8	1.1	1.5	n.d.	16.8
Diesel	2.4	2.4	2.7	3.6	3.6	3.5	3.4	3.4	3.5	n.d.	39.7
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.3
Aviation Jet	0.1	0.2	0.4	0.3	0.5	0.4	0.4	0.2	0.3	n.d.	3.2
LPG	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	n.d.	4.6
Exports	10.8	9.1	8.2	9.9	11.7	10.1	9.4	8.1	7.6	n.d.	100.0
Oil	4.8	4.0	3.4	4.1	6.2	5.1	4.0	2.9	3.9	n.d.	50.8
Gas	6.0	5.1	4.8	5.8	5.5	5.0	5.4	5.2	3.8	n.d.	49.2
Gasoline	2.0	1.6	1.6	1.7	2.4	2.2	1.9	1.6	1.9	n.d.	24.9
Diesel	0.1	0.0	0.0	0.4	0.5	0.4	0.3	0.3	0.4	n.d.	5.7
Heating Oil	1.2	0.8	0.7	1.2	2.5	2.1	1.6	0.3	0.4	n.d.	4.8
Aviation Jet	0.6	0.8	0.6	0.7	0.7	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	n.d.	0.0
CO₂ Emissions (Million tons CO₂)	45.5	48.3	49.8	52.3	50.0	50.3	52.4	42.5	46.4	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	136.3	141.5	141.2	142.8	133.0	128.7	131.3	119.6	115.1	n.d.	-
Final energy intensity (toe/million \$15ppp)	52.3	50.7	51.9	51.7	50.3	50.7	51.2	49.3	46.7	n.d.	-
Total energy intensity (toe/million \$15ppp)	62.4	64.3	64.2	64.3	63.5	64.0	64.9	61.6	58.1	n.d.	-

*Heat is included

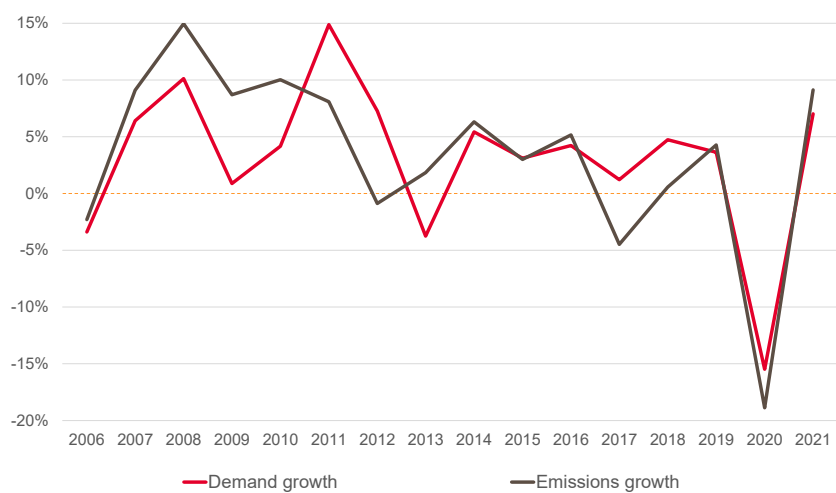
Primary energy demand mix



Electricity generation by source



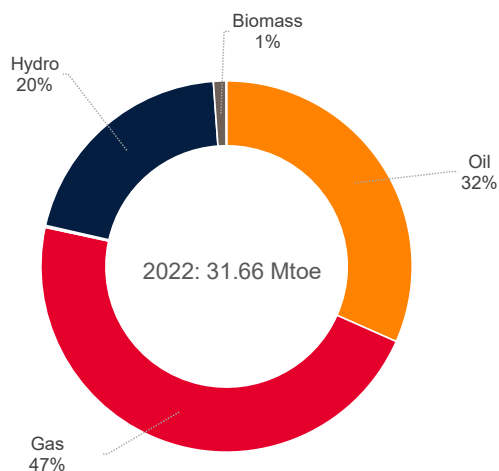
Primary energy demand and CO₂ emissions growth



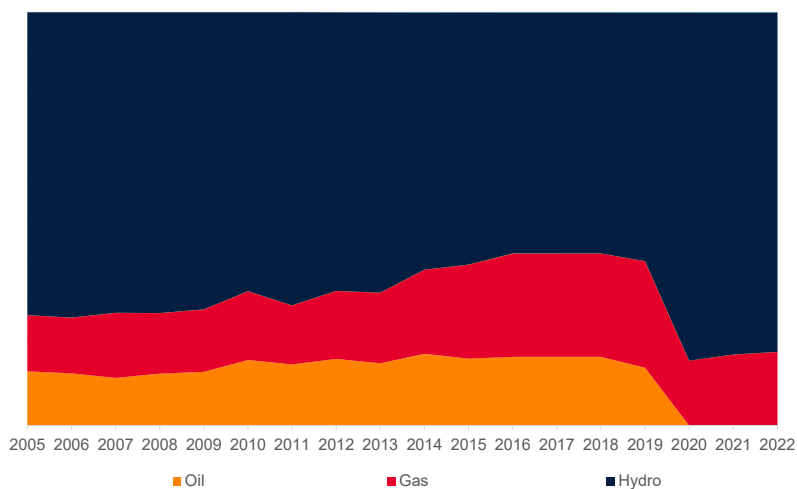
Venezuela (Million toe)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Share in 2022 (%)
Total primary energy demand, by source	76.1	66.0	64.3	58.8	55.1	40.5	33.0	24.5	26.7	31.7	100.0
Oil	46.6	39.2	36.8	31.4	28.4	16.8	13.4	7.6	8.5	13.0	41.2
Gas	21.2	20.4	20.3	21.3	20.9	18.2	15.1	11.2	12.5	12.9	40.8
Coal	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	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	7.2	5.5	6.4	5.4	5.2	5.0	4.3	5.4	5.4	5.4	17.1
Biomass	0.8	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.3	0.3	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
Electricity balance of trade*	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2
Total final consumption, by source	45.5	41.6	36.1	32.1	30.2	26.7	20.8	16.9	18.5	21.0	100.0
Oil	27.9	26.7	21.6	19.3	17.5	14.8	12.3	9.9	11.1	13.4	63.8
Gas	8.2	7.6	6.5	5.9	6.1	5.7	3.3	2.4	2.7	2.8	13.1
Coal	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.2
Electricity	8.4	6.2	7.1	6.2	5.9	5.6	4.7	4.3	4.4	4.5	21.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.8	0.8	0.8	0.6	0.6	0.5	0.3	0.2	0.3	0.3	1.4
Electricity generation, by source	10.6	8.9	10.6	9.3	8.9	8.6	7.1	6.4	6.6	6.6	100.0
Oil	1.6	1.5	1.7	1.5	1.5	1.4	1.0	0.0	0.0	0.0	0.0
Gas	1.8	1.8	2.4	2.3	2.2	2.1	1.8	1.0	1.1	1.2	17.8
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	7.2	5.5	6.4	5.4	5.2	5.0	4.3	5.4	5.4	5.4	82.1
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	0.1
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	45.5	41.6	36.1	32.1	30.2	26.7	20.8	16.9	18.5	21.0	100.0
Industry	16.8	13.7	10.0	8.9	9.1	8.7	5.5	4.7	5.0	5.3	25.3
Transport	18.6	18.2	15.9	13.9	12.7	11.2	10.2	8.0	9.0	10.8	51.4
Residential/Commercial	7.0	7.0	7.4	6.6	6.3	6.1	4.5	3.9	4.2	4.4	20.7
Oil final consumption, by sector	27.9	26.7	21.6	19.3	17.5	14.8	12.3	9.9	11.1	13.4	100.0
Industry	4.7	4.2	1.8	1.6	1.8	1.9	1.0	1.1	1.3	1.5	11.1
Transport	18.5	18.2	15.8	13.8	12.7	11.2	10.2	8.0	9.0	10.8	80.5
Residential/Commercial	1.7	1.7	1.2	1.1	1.1	1.1	0.6	0.5	0.5	0.6	4.6
Natural gas final consumption, by sector	8.2	7.6	6.5	5.9	6.1	5.7	3.3	2.4	2.7	2.8	100.0
Industry	7.2	6.6	5.3	4.8	5.1	4.7	2.7	2.0	2.1	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	1.2	1.0	1.0	0.9	0.6	0.5	0.6	0.6	21.7
Refined products consumption	27.9	26.7	21.6	19.3	17.5	14.8	12.3	9.9	11.1	13.4	100.0
Gasoline	14.4	13.6	12.5	10.9	10.5	9.1	8.4	6.4	7.2	8.8	66.0
Diesel	4.6	5.7	3.6	3.3	2.8	2.9	2.2	2.2	2.6	2.9	21.3
Heating Oil	3.6	2.6	1.0	0.9	0.9	0.9	0.5	0.4	0.4	0.5	3.6
Aviation Jet	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.6
LPG	3.4	3.4	2.9	3.0	2.3	1.0	0.6	0.5	0.5	0.6	4.5
Imports	9.4	7.5	8.7	7.6	8.4	10.2	5.9	5.3	5.6	6.0	100.0
Oil	7.8	6.8	8.4	7.6	8.4	10.2	5.9	5.3	5.6	6.0	100.0
Gas	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.5	0.4	0.7	1.1	1.5	1.6	1.3	2.6	2.8	3.3	54.9
Diesel	1.9	0.0	1.1	1.4	1.1	2.6	0.2	0.0	0.0	0.0	0.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	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	130.3	132.3	127.3	116.9	101.4	83.2	53.0	31.4	33.3	33.3	100.0
Oil	130.3	132.3	127.3	116.9	101.4	83.2	53.0	31.4	33.3	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	0.5	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.5	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	9.5	11.1	11.7	9.6	8.4	8.3	3.6	2.6	2.7	3.4	10.3
Aviation Jet	2.3	2.5	2.3	1.4	1.0	0.9	0.9	0.7	0.8	1.0	2.9
LPG	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2
CO₂ Emissions (Million tons CO₂)	159.3	156.9	142.0	130.2	124.1	112.7	87.6	54.4	59.9	69.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	249.0	255.2	246.3	272.3	307.7	347.7	373.9	331.8	363.4	391.7	-
Final energy intensity (toe/million \$15ppp)	66.4	63.3	57.7	61.6	70.0	80.4	86.3	101.0	110.5	115.2	-
Total energy intensity (toe/million \$15ppp)	119.0	107.4	111.5	123.0	136.6	124.8	141.0	149.2	161.8	177.9	-

*Heat is included

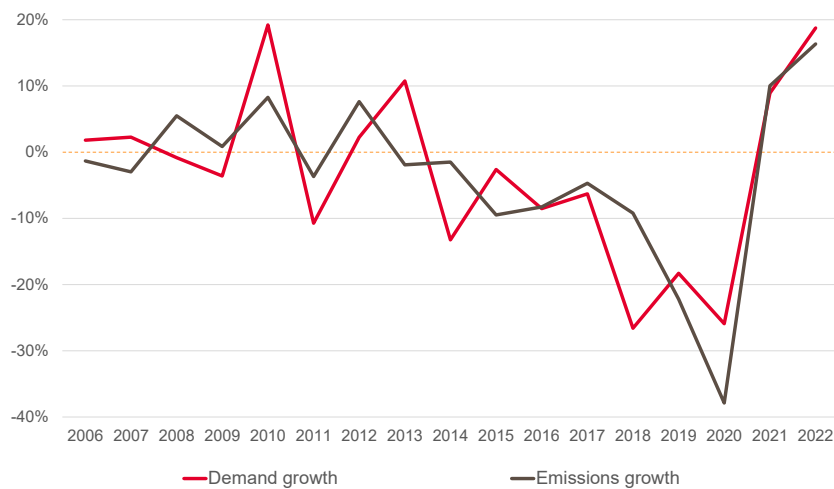
Primary energy demand mix



Electricity generation by source



Primary energy demand and CO₂ emissions growth



Conversion factors

Crude oil

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

Note: based on worldwide average gravity.

Products

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

Note: Approximate conversion factors.

Natural Gas and Liquefied Natural Gas (LNG)

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

Note:

Bcm = billion cubic meter

Bcf = billion cubic feet

toe = tonnes oil equivalent

boe = barrels oil equivalent

Glossary

Definitions

Primary Energy Demand

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

Final Energy Consumption

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

Industry

Includes the mining sector, manufacturing sector, construction and public works sector. It excludes the fuel consumption of all modes of transport, even those used by industry, and also 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

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

Primary energy consumption necessary 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 parities (ppp).

Final Energy Intensity

Final energy consumption necessary 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 parities (ppp) 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, the Republic of the Congo, Saudi Arabia, United Arab Emirates, Venezuela.

MORE INFORMATION

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