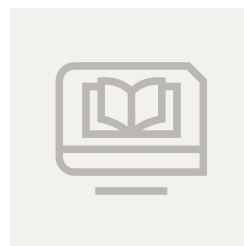
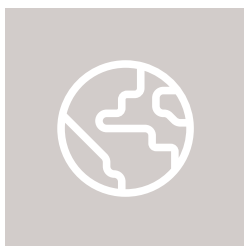
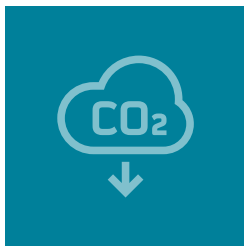


Annual

Energy-Statistics

2024



REPSOL

Economic Research Department

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 2023 (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 2014 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

Amid a challenging global economic landscape, the resilience of the world economy in 2023 stood out. After bottoming out at the end of 2022, global growth revived modestly to reach 3.3% in 2023. However, this recovery masked disparities across various sectors and regions. While the United States and several emerging markets, such as India and Brazil, outperformed expectations, Europe saw only sluggish growth.

Inflation, which had surged to multi-decade highs by the end of 2022 in most parts of the world, began to moderate more quickly than anticipated throughout 2023. This was primarily due to the stabilization of energy prices and the easing of supply chain disruptions, which helped bring goods inflation closer to normal levels. Nonetheless, inflation rates remained significantly above the targets set by central banks in almost all economies. Core inflation (excluding energy and food) also started to decline, albeit at a slower rate.

In this complex environment, although monetary policy was initially slow to respond to inflation spikes, a swift and substantial tightening followed, the impacts of which were still being felt by the year's end. By late 2023, central banks began to retreat from the prospect of further rate hikes, signaling the conclusion of the rate hiking cycle, with attention shifting to how long rates would remain at their peak before easing policies might begin.

This economic backdrop resulted in an accelerated global primary energy demand, which grew by 2.3% in 2023, up from a 0.8% increase in 2022. Although this growth rate was lower than the 5.3% seen in 2021—spurred by the rebound of activities post-2020 COVID-19 lockdowns—it surpassed the average annual growth rate of primary energy demand of 1.8% during the 2015-2019 period.

This 2.3% growth in 2023 brought the total primary energy demand to 15,451 million tonnes of oil equivalent (toe). Oil constituted 30% of global primary energy demand, followed by coal at 28% and natural gas at 22%. Renewable energy sources continued to expand in 2023, with other renewables, excluding hydroelectric and biomass, growing by 15%, though they still accounted for only 2% of total primary energy demand globally.

Regionally, the OECD saw a 1.5% contraction in primary energy demand in 2023, marking a second consecutive year of decline following a 1.2% drop in 2022. This reduction was primarily due to decreased coal and natural gas use, despite increases in oil, nuclear, biomass, and other renewables. Conversely, non-OECD regions experienced a 4.3% growth in demand, with declines only in natural gas and hydroelectric demand. Notably, natural gas usage decreased in both regions in 2023, attributed to a sluggish manufacturing sector in Europe and Asia, despite significant price corrections.

Sector-wise, transportation energy demand rose by 4.3%, following a 4% increase in 2022. In contrast, the residential/commercial and industrial sectors exhibited more modest increases of 0.6% and 2.3% year-on-year, respectively. Energy intensity, defined as the energy required to produce a unit of gross domestic product (GDP), continued its positive trend of reduction globally in 2023. This was primarily because the growth in primary energy demand was outpaced by economic expansion. Over the past decade, global energy intensity has declined by nearly 17%, with both OECD and non-OECD economies following a similar trend.

CO₂ emissions recent development

In 2023, CO₂ emissions hit a record high after increasing by over 1.7% from the previous year.

Analyzing the sources of these emissions, the largest growth came from increased oil combustion, whereas gas combustion saw the smallest increase. Interestingly, despite lower natural gas prices encouraging its use over coal in some regions like America, Europe, and Africa, other areas continued or even increased coal usage. China and India, the two top coal consumers responsible for 70% of global coal consumption (56% from China and 13% from India), raised their usage to unprecedented levels, which led to record-high CO₂ emissions in these countries.

When ranking countries by total emissions, there was no change at the top spots: China remained the leader with 34% of global emissions, followed distantly by the US (13%) and India (8%). The EU, in fourth place, saw a significant reduction in emissions due to decarbonization efforts and decreased industrial activity, lowering emissions in 2023 to historical lows with an 8.3% contraction—greater than that seen in 2008 and second only to the decline during the COVID-19 pandemic shutdown [-9.2%].

However, the scenario differs when examining *per capita* emissions. Persian Gulf nations remain at the forefront, with each Qatari generating six times more CO₂ than the world average, or 35 times more than a Nigerian. In Spain, falling emissions concurrent with a growing population have led per capita emissions to drop to the second-lowest level in history, just behind 2020, and now below the global average (4.7 tonnes per inhabitant compared to 4.9 t/inhabitant globally).

Regarding emissions intensity (emissions relative to GDP), European countries continue to excel in efficiency, significantly outpacing most major emitters. As the EU economy grew in 2023 while emissions sharply declined, this indicator improved not only compared to the previous year but also against the global average, with EU emissions per dollar of GDP now 52% below the global average.

Oil market recent development

In 2023, the global oil market was influenced by a multifaceted interplay of fundamental and geopolitical factors, leading to a decline in the average price of Brent crude oil to \$82.5 per barrel (bl) from the over \$100/bl averaged in 2022, in the wake of the Russia-Ukraine war.

On the demand front, global oil consumption in 2023 reached 101.7 million barrels per day (bl/d), surpassing the pre-pandemic historical level of 100.6 million bl/d in 2019. This reflects a 2.2 million bl/d (2.2%) increase compared to the previous year. Despite regional disparities in consumption growth, the OECD displayed a positive growth in oil consumption for the third consecutive year, albeit at 0.2%, whereas the non-OECD region saw a 3.9% growth, accelerating from the previous year's pace.

China emerged as the primary driver of oil demand in 2023, accounting for nearly 75% of global demand growth due to a substantial resurgence in fuel use following the economic reopening early in the year, which resulted in higher mobility and a notable expansion of its petrochemical sector. However, mirroring a broader global trend, there were indications of a slowdown in Chinese demand for oil products towards the year's end.

In 2023, product consumption witnessed a widespread increase. Diesel and heating oil usage exceeded their 2019 levels, whereas global gasoline consumption remained just below its pre-COVID-19 level. Aviation kerosene continued its strong growth (16% in 2023), yet it did not reach its 2019 peak.

From a supply standpoint, strategic decisions by OPEC+¹ played a significant role, with the group announcing various production cuts in 2023 aimed at stabilizing oil prices amid weak demand. In April 2023, OPEC+ declared a reduction of 1.2 million bl/d, supplemented by voluntary cuts from Saudi Arabia of 1 million bl/d effective from July, and from Russia by 300 thousand bl/d. These measures contributed to a rebound in Brent crude prices

throughout the third quarter, peaking at nearly \$97 per barrel. Cumulatively, the 2023 cuts amounted to 2.5 million bl/d, in addition to the 2 million bl/d announced in November 2022. This reduction was partially balanced by the increased output from non-OPEC+ countries, which on average added 2.2 million bl/d in 2023. Almost all of this growth is explained by the strength of oil production in the United States, Brazil, Guyana and Mexico.

Geopolitics, in conjunction with fundamental factors, played a pivotal role in 2023. At the beginning of 2023, the most significant risk to the oil market was the framework of sanctions imposed by developed countries on Russia around the conflict with Ukraine, which added another layer of complexity to the market. Although Russian crude oil and product exports persisted, they were diverted from Europe to Asia - India in particular - as a direct consequence of the sanctions. This prompted European refineries to expand their network and source supplies from the US, Iraq, Latin America and Africa. But in the background, Russia, one of the world's leading hydrocarbon exporters, and Europe's neighbor Ukraine continued to be at war, making it impossible to underestimate the risk to the oil market.

Furthermore, in October, a surprise attack by Hamas on Israel ignited a new regional conflict in the Middle East. The ensuing hostilities raised concerns about potential Iranian involvement, threatening regional oil flow and introducing significant price volatility. As the conflict advanced, market tensions eased, influenced by both a reduced perception of conflict escalation and unfavorable global economic data, particularly from China, which caused Brent prices to decline below \$80/bbl by year-end.

So far in 2024, Brent crude prices have fluctuated between \$70 and \$90/bbl, reflecting the continued dynamics from 2023: sluggish demand, supply constraints due to OPEC+ production cuts, enhanced supply from the Americas, and the ongoing geopolitical tensions in the Middle East and between Russia and Ukraine.

¹ In 2016, largely in response to the dramatic drop in oil prices driven by the significant increase in U.S. shale oil production, OPEC signed an agreement with 10 other oil-producing countries to create what is now known as OPEC+. These 10 countries are: Russia, Mexico, Kazakhstan, Oman, Azerbaijan, Malaysia, Bahrain, South Sudan, Brunei and Sudan.

Natural gas market recent development

After the natural gas supply shock of 2022, markets gradually rebalanced throughout 2023 and remained relatively quiet during the northern hemisphere winter 2023/24, which was characterized by a mild winter.

Global natural gas consumption in 2023 increased by 0.7%, with declines in advanced economies, mainly Europe, being offset by increases in the US, Asia-Pacific, Africa and the Middle East. Gas consumption in the Asia-Pacific region grew by 3%, driven mainly by China, India and Indonesia.

In Europe, mild temperatures during winter 2023 and efficiency measures, a combination of specific policy measures, and a drop in consumption, especially in the power generation sector with the increased entry of renewables and good availability of nuclear and the decline in energy-intensive industries - which have not yet recovered - justify this drop in demand. Similarly, production has also declined in Europe, mainly in Norway, the UK and the Netherlands.

In 2023, pipeline trade in natural gas has continued to decline, partly due to declining exports from Russia. Pipeline gas now accounts for about 41% of globally traded gas. Norway is the largest supplier of pipeline gas to Europe, as imports from Russia by pipeline have fallen sharply.

LNG accounts for almost 59% of all gas traded globally. The United States is now the world's largest LNG exporter, overtaking Australia and Qatar. China, having overtaken Japan, is now the largest importer of LNG, with one-third of its imports coming from Australia. Overall, the Asia Pacific region accounted for 64% of all LNG imports.

LNG is becoming increasingly important globally, in 2023 it has been affected by restrictions that have affected its trade routes and costs, and these restrictions have continued in 2024.

On the one hand, restrictions on the draft of ships in the Panama Canal due to the drought have forced ships from the Atlantic to Asia to make a more costly and longer voyage via the Cape of Good Hope or the Suez Canal.

On the other hand, the escalation of the regional conflict, which started with the war between Israel and Hamas in October 2023, is significantly affecting LNG flows in the Middle East. The increasing number of attacks in the Bab al Mandab strait between Yemen and Djibouti in 2023 and continuing into 2024 have caused LNG carriers to alter their transit routes in the Middle East, the attacks have increased maritime security risks and have increased insurance costs. In general, LNG shipments from the Middle East to Europe transit the Suez Canal, as it is the shortest trade route, but since January 2024 these exports via this route have been suspended, except for some LNG tankers destined for Jordan's Aqaba terminal. The disruption of LNG tanker transit mainly affects LNG deliveries to Europe from Qatar in the northbound direction and to Asia from the US and Russia in the southbound direction. As a result, cargoes are being diverted through the Cape of Good Hope or redirected to other markets closer to home.

The prices of the main global natural gas markers (Northeast Asia, North America and Europe) fell significantly in 2023, by about 60% compared to 2022.

Security of natural gas supply remains a key aspect of energy policy and continues to be of global concern. In Europe at the end of 2023, the European Council approved the 12-month extension of the three emergency measures introduced in 2022, including the joint gas purchasing mechanism, which was launched in April 2023.

Natural gas markets are expected to grow in 2024, driven mainly by the industrial and power sectors of the economies of growing economies in Asia and gas-rich countries in Africa and the Middle East. However, the continued expansion of renewables and improved nuclear availability are likely to moderate gas heating needs in mature markets.

Overall, price volatility in natural gas markets has decreased in 2023, although volatility may return through 2024. Geopolitical risk, transportation constraints, weather conditions, the pace of LNG capacity coming on stream could renew market tensions and price volatility.

Power generation recent development

Global electricity generation rose by 2.6% in 2023 due to economic improvement, surpassing the decade's average annual growth rate of 2.3% and achieving a new record high.

The expansion of wind and solar capacity led to an increase in the proportion of renewable energy within the electricity generation mix, reaching 30% of global generation in 2023—a 0.6 percentage point rise from the previous year. Currently, wind power and solar power contribute around 8% and 5% respectively to electricity production but are growing rapidly: wind energy nearly doubled its output over the past five years, while solar energy almost doubled over the past three years.

Among renewable sources, hydropower remains the most significant, despite experiencing its lowest generation since 2019 due to drought conditions in China, the world's largest producer. The decrease in hydroelectric generation, combined with the slow pace of new capacity installation, resulted in the share of hydro falling below 15% for the first time in history.

Conventional thermal generation marked several milestones as well. Coal and natural gas-powered electricity reached historical peaks, while oil-based generation—though much smaller in volume compared to other fossil fuels and traditionally on a decline—recorded its highest level in six years, marking three consecutive years of increase.

By region, emerging economies are increasingly installing renewable capacity; however, since they also add thermal generation capacity, the overall share of renewables in their generation mix remains largely unchanged. Consequently, renewable generation is expanding faster in OECD countries compared to emerging nations, widening the difference to nearly 5 percentage points. A dozen years ago, it was the emerging countries that recorded higher contributions from renewables in their generation matrices.

In the European Union, a reduction in overall generation alongside the introduction of new renewable capacity has increased the renewable share in the energy mix to over 45%, significantly above the OECD average. Specifically, Spain saw the renewable portion of its generation matrix exceed 52%.

Spanish energy market recent development

Energy demand in Spain continues to highlight the challenges related to energy efficiency and shifts in the nation's production model. This is evident in the reduced demand across nearly all energy sources, including oil, electricity, and coal. However, there has been a notable increase in gas consumption compared to the previous year.

Despite a 3% decrease in oil demand, it remains the primary energy source for the country. The decline in oil usage is seen mostly in minor sectors such as residential/commercial and industrial uses, while transportation maintained the same consumption levels as the prior year. Breaking it down by product, there's an uptick in aviation fuel demand, reaching a record high, and gasoline, which has hit its highest levels since 2008. Conversely, diesel consumption has continued its downward trend, falling to its lowest point since 2014, excluding the pandemic year.

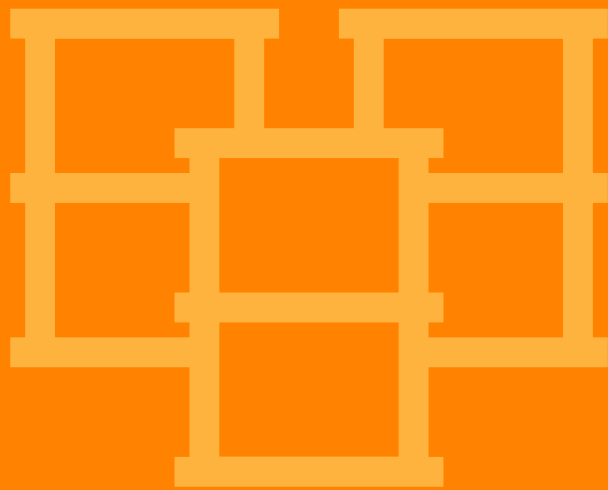
The 6% rise in gas consumption was driven by domestic consumers and small and medium enterprises (SMEs), with growth also noted in the industrial and transport sectors, although transport remains a minor segment of gas demand. Despite this increase, gas consumption is still hampered by high prices and falls well below the average demand over the past decade.

The electricity generation system in Spain is incorporating more renewable energy capacity. Coupled with lower electricity demand, this has reduced the need for fossil fuel generation. Coal usage plummeted by 50% to an all-time low, while natural gas saw a more than 25% drop, losing its position as the primary generation source to wind power. Consequently, over 52% of electricity generated in 2023 came from renewables, and more than 72% from non-CO₂ emitting sources.

This decreased energy demand, along with the increased use of renewable sources in electricity generation, resulted in a reduction of CO₂ emissions by more than 8% compared to the previous year. This positions Spain below the EU average in both per capita emissions and emissions relative to its GDP.

Statistical annex





Oil

Oil Proved Reserves (Thousand million barrels)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	257.4	229.2	253.5	252.4	260.3	259.8	261.8	252.0	257.5	258.8
Canada	197.6	169.4	196.2	194.3	192.5	194.1	193.8	193.9	189.5	189.5
Mexico	9.8	9.6	9.6	8.5	8.0	5.9	5.9	5.6	5.5	5.6
United States	50.1	50.2	47.6	49.6	59.8	59.8	62.0	52.5	62.5	63.7
South and Central America	237.0	233.8	382.5	381.3	381.4	378.4	378.0	379.0	381.0	380.8
Argentina	2.3	2.4	2.4	2.1	2.0	2.0	2.5	2.5	2.8	2.9
Brazil	16.1	12.9	12.5	12.7	13.5	12.6	11.8	13.2	14.8	14.8
Chile	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Colombia	2.3	2.0	1.6	1.6	1.8	1.9	2.0	1.8	2.0	2.1
Peru	1.3	1.4	1.2	1.2	1.0	0.9	0.6	0.8	0.9	0.8
Trinidad & Tobago	0.8	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Venezuela	195.7	195.8	345.9	345.9	345.9	345.9	345.9	345.9	345.9	345.6
Other	18.4	18.4	18.4	17.3	16.8	14.7	14.7	14.4	14.3	14.3
Europe	16.3	15.8	15.1	15.9	16.5	16.2	14.4	13.6	13.3	13.1
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	0.1	0.1	0.1	0.1
Italy	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Netherlands	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Norway	6.4	7.2	7.0	7.9	8.6	8.5	7.7	7.5	7.6	7.6
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	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4
United Kingdom	5.2	4.1	3.8	3.7	3.7	3.5	2.5	2.0	1.7	1.4
EU	4.1	3.9	3.7	3.7	3.6	3.6	3.6	3.6	3.4	3.4
Other	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0
Former Soviet Union	135.6	136.3	147.4	144.1	144.1	145.1	146.4	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	96.3	97.7	108.8	105.5	105.5	106.5	107.8	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	1.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Middle East	790.9	799.9	796.1	817.2	816.4	816.7	825.4	833.0	884.2	884.8
Iran	156.5	157.3	156.1	154.5	154.5	154.5	158.2	158.2	207.2	207.2
Iraq	142.1	141.5	147.8	146.2	144.0	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	259.3	267.3	258.3	282.5	283.9	284.2	289.2	283.7	283.9	283.9
United Arab Emirates	97.1	97.1	97.1	97.1	97.1	97.1	97.1	112.2	112.2	112.8
Other	10.0	10.8	10.8	10.9	11.0	10.9	10.9	11.0	11.0	11.0
Africa	129.1	128.1	127.5	125.5	124.1	125.4	124.7	122.9	118.8	119.0
Algeria	12.1	12.1	12.1	12.1	12.1	12.1	12.1	11.4	12.1	12.1
Angola	12.6	12.5	11.5	9.5	8.3	8.1	7.7	7.7	2.5	2.6
Egypt	4.4	4.4	4.4	4.4	3.1	3.3	3.1	3.0	3.3	3.3
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	37.2	37.2	36.7	36.6	36.6	36.8	36.7	36.9
Other	15.1	14.3	14.3	14.3	15.9	17.2	17.1	16.0	16.1	16.1
Asia-Pacific	42.1	41.6	47.9	47.7	46.4	46.1	45.2	45.0	46.0	46.7
Australia	4.0	4.0	4.0	4.0	2.5	2.5	1.8	1.8	1.8	1.8
China	18.4	18.4	25.5	25.5	25.8	26.0	25.9	25.8	26.9	27.2
India	5.4	4.6	4.5	4.4	4.3	4.5	4.5	4.5	4.3	4.6
Indonesia	3.7	3.6	3.2	3.1	3.1	2.5	2.4	2.2	2.3	2.3
Malaysia	3.6	3.7	3.6	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	0.0	0.1	0.1	0.1
Thailand	0.4	0.7	0.4	0.3	0.3	0.3	0.1	0.2	0.2	0.2
Vietnam	4.4	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.4	4.4
Other	2.2	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5
OECD	279.4	250.4	273.5	273.3	280.4	279.7	279.3	268.6	274.1	275.1
Non-OECD	1,329.1	1,334.6	1,496.4	1,510.9	1,508.9	1,508.0	1,516.6	1,523.4	1,573.2	1,574.4
OPEC	1,053.0	1,061.6	1,208.1	1,229.2	1,227.8	1,229.5	1,238.1	1,244.0	1,295.8	1,296.4
Non-OPEC	555.5	523.4	561.8	555.0	561.4	558.2	557.8	548.0	551.5	553.2
World	1,608.4	1,585.0	1,769.9	1,784.2	1,789.2	1,787.7	1,795.9	1,792.0	1,847.3	1,849.5

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

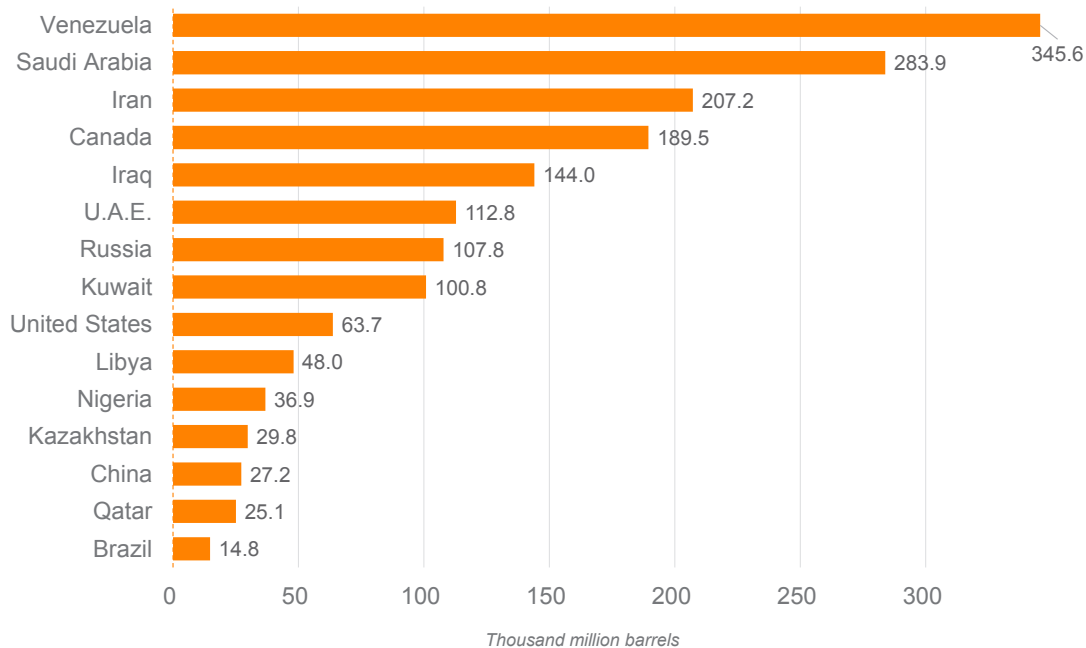
Oil Production (Thousand barrels per day)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	19,085	19,980	19,506	20,432	22,881	24,757	23,852	24,320	25,690	27,372
Canada	4,425	4,536	4,615	4,990	5,408	5,610	5,349	5,593	5,756	5,828
Mexico	2,799	2,597	2,463	2,229	2,073	1,928	1,932	1,954	2,006	2,103
United States	11,861	12,847	12,428	13,213	15,400	17,219	16,571	16,773	17,928	19,441
South and Central America	7,710	7,846	7,530	7,268	6,652	6,351	5,953	6,003	6,436	7,041
Argentina	659	650	625	595	621	647	609	643	712	765
Brazil	2,367	2,547	2,628	2,755	2,713	2,897	3,044	3,002	3,119	3,488
Chile	9	6	5	6	9	12	9	9	9	10
Colombia	997	1,014	906	862	873	893	788	744	761	791
Peru	173	150	134	133	133	140	125	120	118	114
Trinidad & Tobago	114	109	97	99	87	82	76	77	76	68
Venezuela	2,672	2,665	2,429	2,132	1,548	1,007	615	691	782	853
Other	719	705	706	686	668	673	687	717	859	952
Europe	3,469	3,623	3,656	3,617	3,598	3,496	3,712	3,516	3,293	3,319
Czech Republic	7	7	5	7	6	5	6	6	4	4
France	27	25	34	38	28	34	34	51	58	50
Germany	60	66	68	67	67	58	73	58	53	57
Italy	128	131	95	97	110	89	120	111	96	111
Netherlands	38	36	24	24	23	18	19	19	12	9
Norway	1,889	1,948	1,995	1,969	1,850	1,758	2,037	2,046	1,905	2,018
Poland	29	28	21	24	32	30	29	26	22	23
Portugal	1	0	1	0	0	0	0	1	0	0
Romania	82	82	78	74	73	73	71	68	64	62
Spain	6	5	3	2	2	1	1	0	0	0
Turkey	48	49	52	52	59	62	64	68	71	81
United Kingdom	873	972	1,026	1,009	1,116	1,150	1,076	890	837	734
EU	3,364	3,518	3,553	3,515	3,492	3,385	3,601	3,405	3,181	3,200
Other	281	274	254	254	232	218	182	172	171	170
Former Soviet Union	13,906	14,051	14,221	14,336	14,596	14,668	13,522	13,787	13,912	13,842
Azerbaijan	862	849	829	784	793	765	699	703	671	620
Kazakhstan	1,728	1,694	1,669	1,848	1,937	1,943	1,838	1,846	1,817	1,931
Russia	10,892	11,084	11,328	11,321	11,494	11,582	10,607	10,867	11,088	10,959
Ukraine	61	54	50	49	51	55	54	54	11	0
Uzbekistan	66	66	62	66	63	60	58	56	70	85
Other	297	304	283	268	258	263	266	261	255	247
Middle East	28,371	29,701	31,408	30,979	31,555	30,129	27,803	28,100	31,107	30,428
Iran	3,429	3,573	4,402	4,742	4,582	3,347	3,038	3,504	3,681	4,234
Iraq	3,435	4,108	4,533	4,603	4,703	4,852	4,213	4,200	4,622	4,453
Kuwait	3,090	3,097	3,176	2,994	3,030	2,967	2,697	2,699	3,005	2,930
Qatar	1,916	1,856	1,839	1,767	1,780	1,714	1,760	1,801	1,801	1,819
Saudi Arabia	11,605	12,045	12,344	11,876	12,345	11,914	11,094	10,974	12,390	11,478
United Arab Emirates	3,552	3,762	3,848	3,740	3,831	4,049	3,759	3,660	4,249	4,207
Other	1,344	1,260	1,266	1,257	1,284	1,286	1,242	1,262	1,359	1,307
Africa	8,390	8,324	7,796	8,197	8,286	8,441	7,030	7,407	7,132	7,326
Algeria	1,585	1,590	1,604	1,530	1,512	1,490	1,346	1,362	1,470	1,432
Angola	1,696	1,796	1,743	1,693	1,537	1,428	1,311	1,163	1,177	1,137
Egypt	709	696	664	639	649	633	619	593	600	596
Libya	497	437	426	877	1,029	1,159	384	1,225	1,068	1,229
Nigeria	2,330	2,246	1,928	1,986	2,030	2,123	1,879	1,681	1,485	1,564
South Africa	103	106	103	106	102	104	88	104	97	94
Other	1,470	1,453	1,328	1,366	1,427	1,504	1,403	1,279	1,235	1,274
Asia-Pacific	8,192	8,333	8,016	7,799	7,669	7,721	7,529	7,443	7,379	7,391
Australia	412	371	345	315	344	458	455	444	413	382
China	4,181	4,271	3,982	3,892	3,848	3,921	3,970	4,060	4,177	4,274
India	898	889	870	881	866	824	769	746	720	704
Indonesia	835	817	866	824	798	772	734	683	632	628
Japan	13	12	11	12	10	11	10	10	9	8
Malaysia	653	701	737	729	723	670	604	566	563	556
New Zealand	46	48	41	37	30	30	26	23	21	23
South Korea	20	22	24	25	29	28	34	37	38	38
Thailand	436	452	462	457	446	443	411	380	340	327
Other	698	750	678	627	575	564	516	494	466	451
OPEC	32,983	34,264	35,366	35,158	35,331	33,644	29,702	30,597	33,329	32,963
Non-OPEC	60,624	62,141	61,406	62,249	64,938	67,117	64,442	64,988	66,838	69,249
Global biofuels	2,261	2,271	2,357	2,440	2,651	2,831	2,615	2,767	2,900	3,128
Processing gains	2,223	2,276	2,282	2,339	2,381	2,367	2,128	2,242	2,318	2,365
World	93,607	96,405	96,772	97,407	100,269	100,761	94,144	95,585	100,167	102,212

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

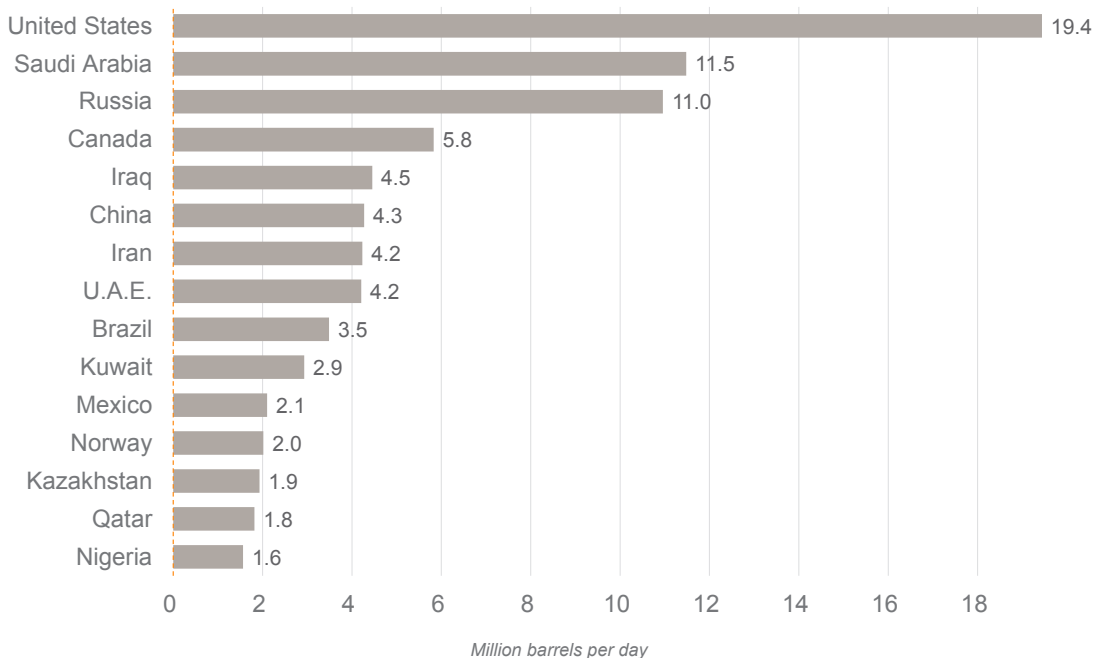
Oil Final Consumption <i>(Thousand barrels/day)</i>		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America		23,714	24,162	24,389	24,626	25,097	24,926	21,876	23,667	24,317	24,553
Canada		2,419	2,468	2,505	2,506	2,557	2,558	2,201	2,283	2,410	2,454
Mexico		2,040	2,006	2,053	2,019	1,886	1,966	1,626	1,631	1,747	1,737
United States		19,255	19,688	19,831	20,101	20,654	20,402	18,049	19,753	20,160	20,362
South and Central America		7,053	6,978	6,778	6,732	6,616	6,664	5,737	6,364	6,614	6,732
Argentina		688	682	677	666	648	625	524	638	694	688
Brazil		3,248	3,189	2,999	3,039	2,975	3,073	2,856	3,028	3,089	3,189
Chile		336	331	352	357	363	362	331	361	406	405
Colombia		326	338	372	346	349	373	323	357	374	381
Peru		224	236	247	262	266	274	212	266	275	283
Trinidad & Tobago		44	46	47	44	37	31	26	27	28	29
Venezuela		806	703	623	567	484	396	214	226	232	230
Other		1,381	1,453	1,461	1,451	1,494	1,530	1,251	1,461	1,516	1,527
Europe		14,271	14,590	14,791	15,188	15,077	15,114	13,147	13,863	14,336	14,232
Belgium		608	625	634	639	685	644	562	624	605	585
Czech Republic		202	196	180	214	217	219	192	212	216	211
Finland		205	205	208	208	208	209	189	184	194	175
France		1,744	1,747	1,708	1,737	1,687	1,691	1,425	1,538	1,548	1,554
Germany		2,374	2,368	2,383	2,450	2,327	2,355	2,148	2,134	2,174	2,052
Italy		1,266	1,274	1,237	1,244	1,272	1,255	1,032	1,160	1,261	1,246
Netherlands		931	916	932	941	926	901	859	853	843	872
Norway		231	240	230	237	243	248	218	235	224	229
Poland		504	541	582	658	680	698	661	698	724	722
Portugal		233	237	237	242	231	249	203	212	233	212
Romania		190	194	204	217	214	228	219	228	230	232
Spain		1,200	1,247	1,290	1,297	1,332	1,328	1,089	1,192	1,289	1,269
Sweden		304	301	315	321	290	297	268	302	282	283
Turkey		763	881	942	991	958	987	921	974	1,013	1,077
United Kingdom		1,518	1,560	1,599	1,619	1,605	1,578	1,222	1,256	1,376	1,396
EU		11,141	11,273	11,361	11,666	11,600	11,625	10,216	10,797	11,096	10,925
Other		1,998	2,058	2,110	2,173	2,202	2,227	1,939	2,061	2,124	2,117
Former Soviet Union		4,622	4,594	4,491	4,657	4,688	4,728	4,590	4,891	4,942	4,947
Azerbaijan		96	96	97	103	104	112	102	106	110	113
Kazakhstan		258	322	349	334	326	290	314	325	333	345
Russia		3,529	3,472	3,308	3,496	3,494	3,568	3,449	3,685	3,782	3,777
Ukraine		238	220	244	236	243	244	215	239	174	166
Uzbekistan		85	85	89	89	96	96	100	109	114	117
Other		416	399	404	399	425	418	410	427	429	429
Middle East		9,110	9,077	8,996	9,115	9,041	8,997	8,256	8,645	9,203	9,299
Iran		2,028	2,003	1,839	1,884	1,958	1,907	1,731	1,804	1,831	1,822
Iraq		653	606	655	680	705	745	615	703	825	861
Kuwait		451	451	432	438	441	425	401	434	444	447
Qatar		287	287	305	311	311	319	281	279	305	305
Saudi Arabia		3,795	3,895	3,870	3,804	3,608	3,632	3,459	3,506	3,729	3,769
United Arab Emirates		874	880	962	1,020	992	979	915	968	1,066	1,097
Other		1,022	955	933	978	1,026	990	854	951	1,003	998
Africa		4,099	4,134	4,095	4,136	4,152	4,163	3,789	4,079	4,311	4,307
Algeria		435	447	430	425	437	446	436	451	480	498
Angola		164	163	146	141	139	153	111	150	154	156
Egypt		840	858	829	773	716	652	631	709	818	772
Libya		258	218	199	204	210	208	175	223	234	240
Nigeria		455	415	427	431	456	488	427	476	493	497
South Africa		614	637	607	663	648	621	533	563	568	552
Other		1,333	1,396	1,457	1,499	1,546	1,595	1,476	1,507	1,564	1,592
Asia-Pacific		30,903	32,306	33,106	34,317	35,539	35,971	34,181	35,733	35,801	37,624
Australia		1,120	1,106	1,098	1,150	1,168	1,150	991	1,012	1,064	1,123
China		10,798	11,639	12,013	12,574	13,624	14,146	14,283	15,088	14,664	16,247
India		3,905	4,288	4,493	4,762	4,927	4,963	4,590	4,896	5,276	5,471
Indonesia		1,761	1,683	1,594	1,703	1,858	1,833	1,659	1,729	1,774	1,802
Japan		4,263	4,145	4,011	3,919	3,826	3,733	3,335	3,394	3,335	3,289
Malaysia		731	688	709	731	712	752	670	710	791	858
New Zealand		157	161	168	177	179	181	150	147	151	154
South Korea		2,348	2,473	2,603	2,627	2,564	2,596	2,448	2,556	2,527	2,452
Taiwan		1,136	1,162	1,168	1,152	1,157	1,097	1,051	1,095	1,017	963
Thailand		1,338	1,363	1,407	1,434	1,472	1,477	1,358	1,341	1,418	1,421
Other		3,346	3,598	3,842	4,088	4,052	4,043	3,646	3,765	3,784	3,844
OECD		46,129	46,883	47,337	47,924	48,157	47,946	42,134	44,856	46,018	46,096
Non-OECD		47,642	48,958	49,308	50,846	52,050	52,616	49,442	52,390	53,507	55,599
World		93,771	95,841	96,645	98,770	100,207	100,562	91,576	97,246	99,525	101,695

Note: Liquids final consumption including bunker fuel.

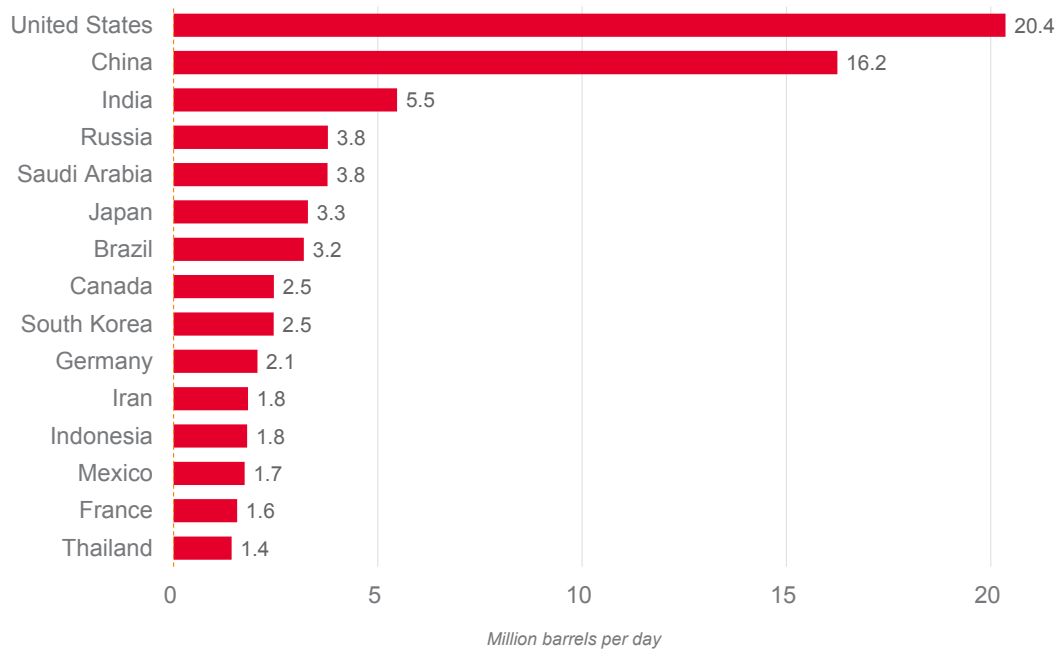
Top 15 Countries - Oil Proved Reserves, 2023



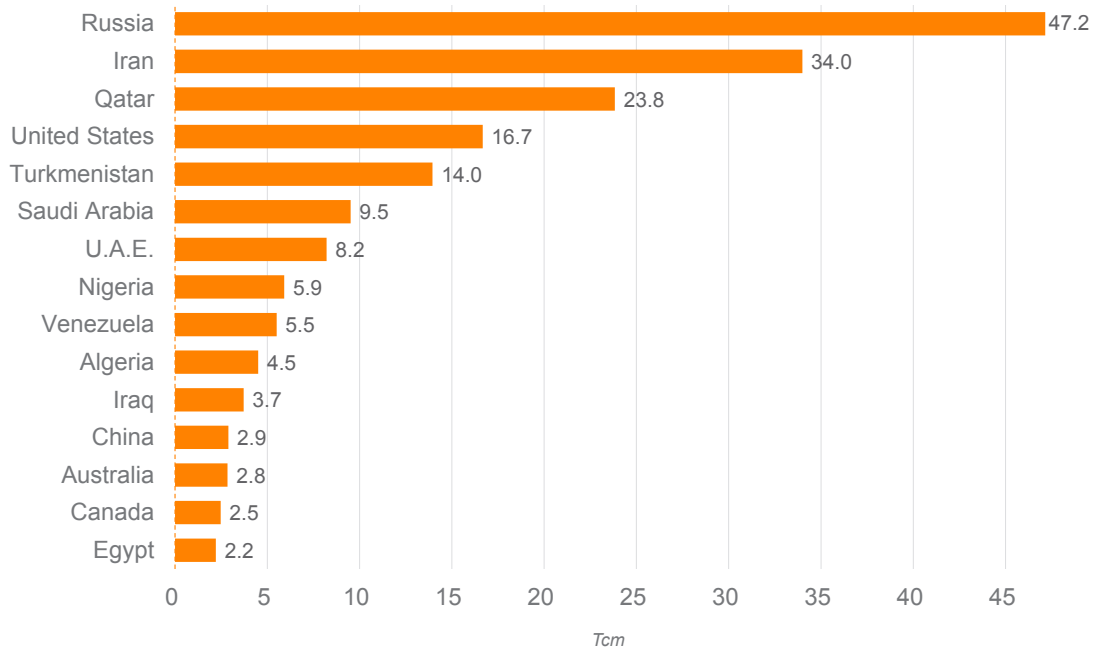
Top 15 Countries - Oil Production, 2023



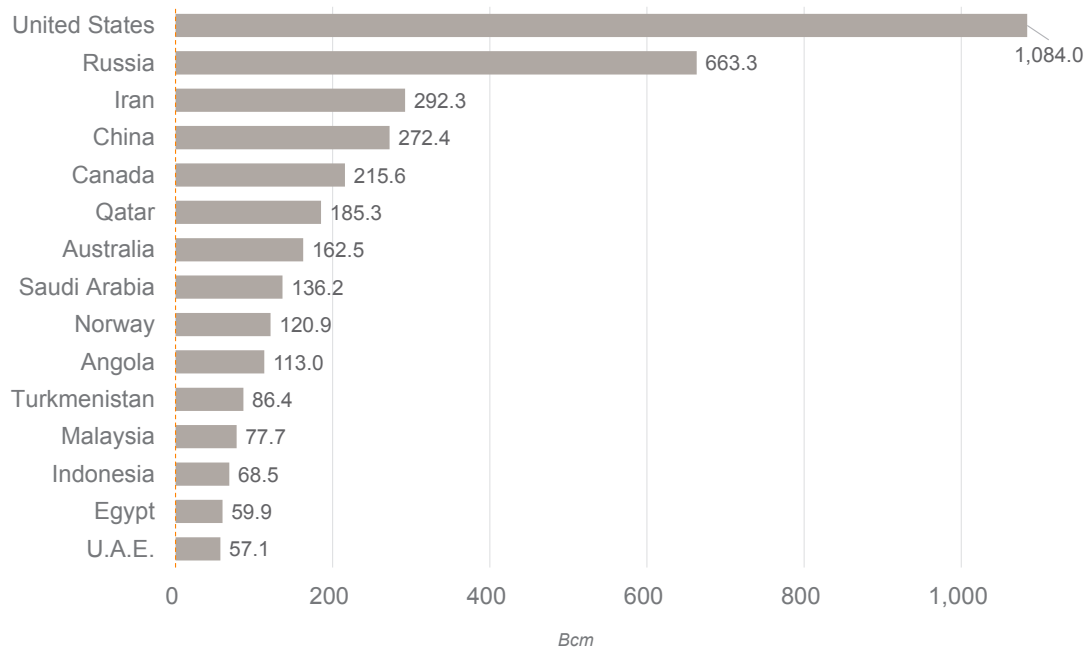
Top 15 Countries - Oil Final Consumption, 2023



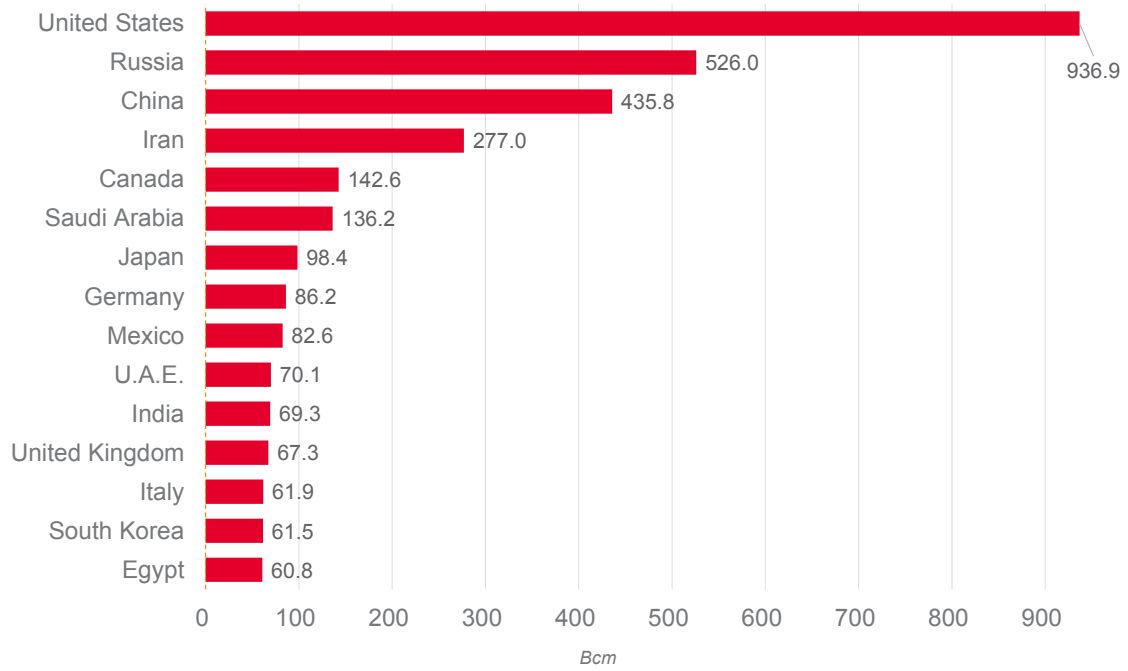
Top 15 Countries - Natural Gas Proved Reserves, 2023



Top 15 Countries - Natural Gas Production, 2023



Top 15 Countries - Natural Gas Demand, 2023



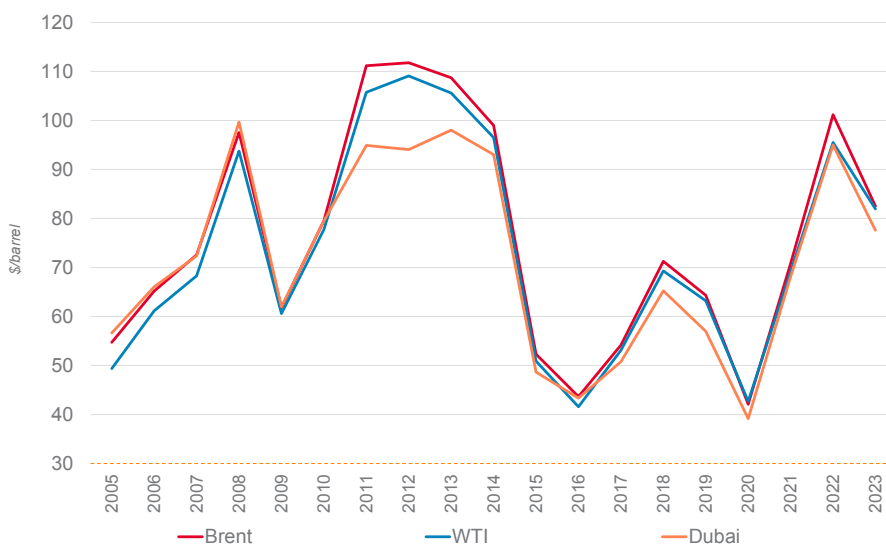


Oil and Natural Gas
prices

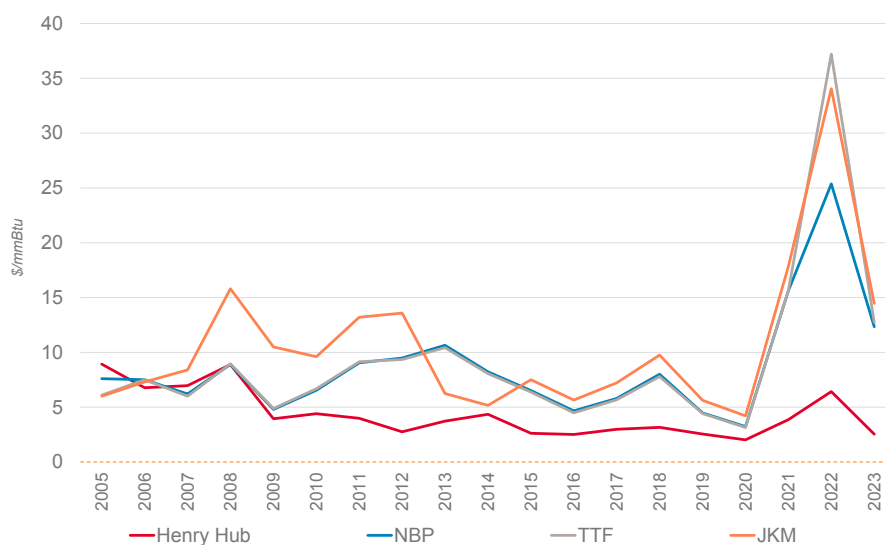
Oil and Natural Gas Prices	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Crude oil (\$ per barrel)										
Brent	99.0	52.3	43.6	54.1	71.3	64.3	42.1	70.8	101.2	82.5
WTI	96.5	50.9	41.6	53.1	69.3	63.2	42.7	69.2	95.5	81.9
Dubai	93.0	48.7	43.3	50.8	65.2	57.0	39.2	68.1	95.0	77.6
Natural gas (dollar per million Btu)										
Henry Hub (HH)	4.3	2.6	2.5	3.0	3.2	2.5	2.0	3.9	6.4	2.5
National Balancing Point (NBP)	8.2	6.5	4.7	5.8	8.0	4.5	3.2	15.6	25.4	12.3
Japan Korea Marker (JKM)	5.2	7.5	5.7	7.2	9.8	5.6	4.2	17.9	34.1	14.5
Title Transfer Facility (TTF)	8.1	6.4	4.5	5.7	7.8	4.4	3.1	15.7	37.2	12.7

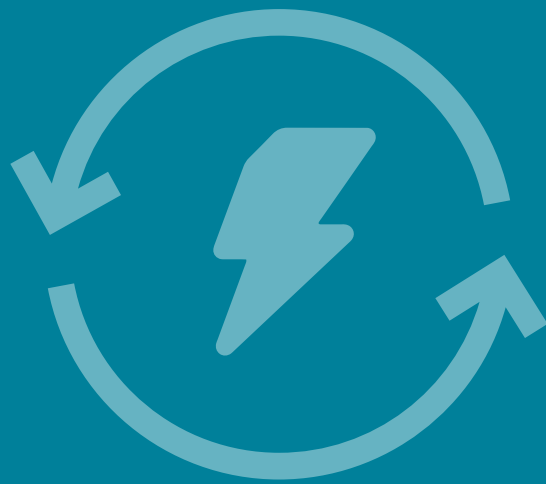
Source: Thomson Reuters

Crude Oil Price Benchmarks



Natural Gas Price Benchmarks

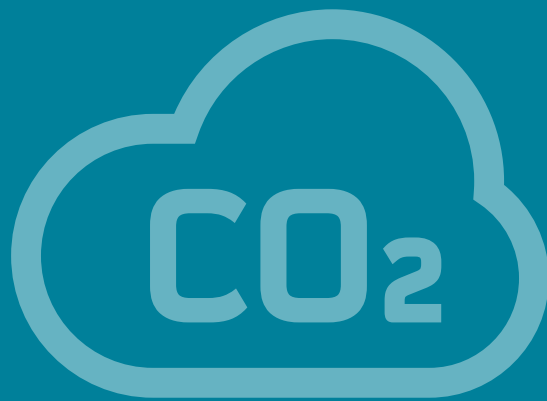




Electricity Generation

Total Power Generation (TWh)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	5,301	5,286	5,309	5,273	5,472	5,389	5,229	5,397	5,589	5,563
Canada	659	658	666	663	659	653	651	643	656	632
Mexico	301	311	321	323	358	345	318	380	393	410
United States	4,340	4,317	4,322	4,286	4,455	4,392	4,260	4,375	4,540	4,520
South and Central America	1,261	1,272	1,280	1,284	1,296	1,306	1,284	1,347	1,375	1,425
Argentina	139	145	146	146	152	146	145	154	146	149
Brazil	591	581	579	589	601	626	621	656	677	710
Chile	71	75	79	79	82	85	84	88	90	90
Colombia	72	75	74	74	78	80	80	84	88	93
Peru	46	48	52	53	55	57	53	57	59	n.d.
Trinidad & Tobago	9	10	9	9	9	9	9	9	10	n.d.
Venezuela	132	129	118	112	94	80	82	85	89	87
Other	201	209	222	220	224	223	210	213	216	n.d.
Europe	3,752	3,812	3,850	3,899	3,896	3,838	3,728	3,883	3,780	3,646
Belgium	73	70	86	87	75	94	89	100	96	82
Czech Republic	86	84	83	87	88	87	82	85	85	76
Finland	68	69	69	68	70	69	69	72	72	n.d.
France	573	579	564	562	582	571	532	555	475	527
Germany	628	648	650	654	640	607	575	593	580	513
Italy	280	283	290	296	290	294	281	289	284	264
Netherlands	103	110	115	117	114	121	123	122	122	122
Norway	142	144	149	149	147	134	155	158	146	154
Poland	159	165	167	170	170	164	158	180	180	170
Portugal	53	52	60	59	60	53	53	51	49	49
Romania	66	66	65	64	65	60	56	59	56	58
Spain	279	281	275	276	274	273	263	274	292	282
Sweden	154	162	156	164	163	168	164	172	173	166
Turkey	252	262	274	297	305	304	307	335	328	324
United Kingdom	338	338	337	337	332	323	311	307	320	284
EU	2,861	2,907	2,928	2,961	2,943	2,907	2,790	2,916	2,824	2,726
Other	501	499	510	511	521	515	510	531	521	n.d.
Former Soviet Union	1,532	1,517	1,545	1,553	1,592	1,596	1,563	1,657	1,626	1,640
Azerbaijan	25	25	25	24	25	26	26	28	29	29
Kazakhstan	95	92	95	103	108	107	111	115	113	113
Russia	1,064	1,068	1,091	1,094	1,115	1,121	1,090	1,159	1,170	1,178
Ukraine	183	164	165	156	160	154	148	156	113	n.d.
Uzbekistan	56	57	59	60	62	63	67	71	74	78
Other	109	111	111	115	122	124	122	127	126	n.d.
Middle East	1,057	1,112	1,148	1,224	1,208	1,237	1,253	1,291	1,334	1,400
Iran	274	281	289	308	310	311	336	344	361	378
Iraq	68	69	80	86	81	87	85	86	92	97
Kuwait	65	68	70	74	74	75	75	81	83	86
Qatar	39	41	42	46	48	50	49	52	50	54
Saudi Arabia	312	338	345	379	359	368	367	379	389	410
United Arab Emirates	117	127	130	135	136	138	137	149	155	168
Other	182	187	192	197	199	207	202	200	203	206
Africa	767	787	809	829	853	863	852	905	922	919
Algeria	64	69	71	76	77	82	79	85	91	96
Angola	10	10	11	11	13	16	17	17	17	n.d.
Egypt	174	180	192	195	203	194	197	223	232	236
Libya	38	38	31	33	34	35	29	31	33	n.d.
Nigeria	32	33	37	32	33	33	35	36	34	35
South Africa	253	250	255	258	256	253	240	244	235	224
Other	197	208	212	224	237	251	255	269	279	n.d.
Asia-Pacific	10,402	10,531	11,015	11,647	12,312	12,720	12,944	13,917	14,295	15,065
Australia	247	251	257	258	261	264	265	266	272	273
China	5,794	5,815	6,133	6,604	7,166	7,503	7,779	8,534	8,849	9,456
India	1,309	1,354	1,432	1,490	1,522	1,577	1,533	1,610	1,753	1,874
Indonesia	235	267	233	263	276	281	277	289	308	323
Japan	1,076	1,059	1,071	1,081	1,067	1,039	1,017	1,050	1,027	1,009
Malaysia	147	150	157	165	171	178	174	180	187	192
New Zealand	44	45	44	45	45	45	45	45	45	45
South Korea	551	553	563	567	590	581	579	612	626	618
Taiwan	260	258	264	270	276	274	280	291	288	282
Thailand	172	177	188	182	182	191	189	187	192	203
Other	567	602	673	722	756	785	806	853	750	790
OECD	10,972	11,011	11,104	11,143	11,347	11,194	10,906	11,287	11,388	11,210
Non-OECD	13,090	13,295	13,840	14,554	15,271	15,744	15,936	17,097	17,519	18,448
World	24,072	24,317	24,955	25,709	26,629	26,950	26,854	28,397	28,920	29,658

Renewables in Power Generation (%)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	19.8%	20.0%	21.5%	23.4%	22.9%	23.6%	25.8%	25.8%	27.0%	26.4%
Canada	63.1%	64.0%	64.9%	66.6%	65.9%	65.9%	67.1%	67.5%	69.1%	67.2%
Mexico	17.5%	15.3%	15.3%	16.3%	15.2%	16.0%	19.8%	19.2%	18.4%	14.5%
United States	13.4%	13.6%	15.3%	17.3%	17.2%	17.9%	19.9%	20.3%	21.7%	21.8%
South and Central America	61.4%	61.1%	63.7%	66.3%	68.1%	68.5%	69.4%	66.3%	72.4%	73.4%
Argentina	31.8%	30.5%	27.9%	30.6%	29.6%	29.6%	32.3%	25.7%	24.4%	29.4%
Brazil	73.1%	74.0%	80.5%	79.2%	82.4%	82.3%	84.2%	77.4%	87.7%	89.3%
Chile	42.9%	43.6%	43.3%	43.9%	46.2%	46.6%	48.7%	48.8%	56.5%	63.7%
Colombia	64.6%	62.6%	66.2%	80.5%	76.6%	70.1%	65.8%	75.0%	75.0%	66.4%
Peru	52.4%	52.7%	50.4%	58.6%	60.8%	60.4%	63.8%	61.8%	55.9%	n.d.
Trinidad & Tobago	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	n.d.
Venezuela	60.7%	58.2%	53.4%	62.5%	69.3%	78.9%	81.5%	80.1%	77.5%	75.7%
Europe	32.2%	33.6%	34.0%	33.8%	36.2%	38.5%	42.8%	41.2%	42.7%	48.0%
Belgium	18.5%	22.3%	18.0%	19.6%	24.3%	21.7%	27.4%	23.5%	26.9%	34.4%
Czech Republic	11.9%	12.8%	12.7%	12.4%	11.9%	12.9%	14.3%	13.9%	13.9%	15.4%
Finland	38.6%	44.5%	44.2%	46.6%	45.7%	46.4%	51.9%	52.9%	53.5%	n.d.
France	17.4%	16.7%	18.4%	17.4%	20.4%	20.6%	24.4%	22.8%	25.1%	27.4%
Germany	26.8%	30.0%	30.0%	34.0%	35.6%	40.6%	44.8%	40.3%	44.3%	53.5%
Italy	43.7%	39.0%	37.9%	35.7%	40.1%	40.0%	42.4%	41.0%	36.0%	43.8%
Netherlands	11.3%	12.4%	12.8%	14.9%	16.5%	18.8%	26.6%	33.1%	39.7%	47.5%
Norway	97.4%	97.5%	97.6%	97.6%	97.5%	97.5%	98.2%	98.8%	98.2%	98.3%
Poland	12.8%	14.1%	14.0%	14.4%	13.0%	16.0%	18.4%	17.4%	21.6%	27.8%
Portugal	61.4%	48.7%	55.5%	40.9%	51.4%	54.2%	59.6%	64.9%	61.3%	75.5%
Romania	42.0%	40.1%	42.2%	38.3%	41.0%	42.0%	44.6%	44.9%	42.8%	49.9%
Spain	40.9%	35.7%	39.3%	32.9%	38.8%	37.8%	44.5%	47.0%	43.6%	52.3%
Sweden	55.9%	63.3%	57.2%	57.9%	55.8%	58.7%	68.5%	67.4%	68.3%	69.4%
Turkey	20.9%	32.0%	32.9%	29.3%	32.1%	43.5%	41.8%	35.4%	42.0%	42.2%
United Kingdom	20.0%	25.5%	25.5%	30.2%	33.8%	37.5%	43.9%	40.4%	42.2%	47.7%
EU	30.3%	30.4%	30.7%	30.5%	32.8%	34.5%	39.0%	37.9%	39.3%	45.3%
Former Soviet Union	16.0%	15.6%	16.8%	17.1%	17.2%	17.4%	19.1%	18.7%	18.1%	18.2%
Azerbaijan	5.6%	7.0%	8.4%	7.8%	7.8%	7.0%	5.1%	5.5%	6.3%	6.8%
Kazakhstan	8.8%	10.4%	12.7%	11.3%	10.4%	10.8%	11.0%	10.9%	11.7%	12.8%
Russia	16.7%	16.0%	17.2%	17.2%	17.4%	17.7%	20.0%	19.2%	17.7%	17.8%
Ukraine	6.0%	5.3%	6.6%	8.0%	9.1%	8.6%	11.8%	14.1%	16.6%	n.d.
Uzbekistan	10.9%	11.9%	11.7%	13.1%	9.4%	10.3%	7.5%	7.0%	7.7%	7.7%
Middle East	2.0%	1.8%	2.1%	1.9%	2.1%	2.8%	3.1%	3.2%	3.7%	4.3%
Iran	5.1%	5.1%	5.8%	5.0%	5.4%	5.5%	5.1%	5.0%	6.1%	7.4%
Iraq	4.4%	3.8%	4.3%	2.6%	2.3%	5.7%	4.9%	3.9%	3.7%	3.5%
Kuwait	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%	0.3%	0.2%	0.2%	0.2%
Qatar	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Saudi Arabia	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.3%	0.4%	0.3%	0.7%
United Arab Emirates	0.2%	0.2%	0.2%	0.5%	1.0%	2.7%	4.0%	3.9%	4.6%	5.2%
Africa	18.2%	18.1%	18.1%	18.7%	20.0%	21.1%	22.6%	22.9%	23.3%	24.3%
Algeria	0.6%	0.5%	0.6%	0.8%	1.0%	1.0%	0.9%	0.8%	0.7%	0.7%
Angola	52.5%	54.3%	58.3%	71.3%	79.3%	73.1%	75.5%	75.3%	75.0%	n.d.
Egypt	9.1%	8.5%	8.3%	8.1%	7.8%	9.5%	12.1%	11.8%	10.9%	11.4%
Libya	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Nigeria	16.6%	19.5%	22.4%	24.1%	23.1%	25.6%	22.1%	22.2%	26.1%	26.4%
South Africa	2.6%	3.5%	4.3%	5.7%	6.6%	7.0%	7.4%	9.1%	10.4%	12.4%
Asia-Pacific	18.6%	19.3%	20.6%	21.1%	22.1%	23.2%	24.4%	25.1%	26.6%	26.8%
Australia	14.6%	13.3%	14.6%	15.7%	17.1%	19.7%	22.6%	26.7%	30.9%	33.8%
China	21.9%	23.6%	24.5%	24.6%	25.1%	26.1%	27.1%	27.5%	29.0%	29.4%
India	14.7%	14.1%	15.7%	16.5%	19.6%	21.3%	23.0%	23.7%	24.3%	22.2%
Indonesia	15.3%	10.3%	15.1%	12.3%	12.2%	12.3%	13.2%	12.8%	13.1%	12.0%
Japan	12.4%	14.2%	14.7%	16.2%	17.1%	18.6%	20.3%	21.1%	22.6%	23.5%
Malaysia	9.7%	10.0%	13.5%	16.9%	16.6%	16.1%	17.6%	19.1%	18.5%	18.8%
New Zealand	79.5%	80.5%	84.6%	81.5%	83.7%	82.0%	80.4%	81.4%	86.6%	87.6%
South Korea	2.5%	2.6%	3.5%	4.0%	4.6%	5.3%	6.4%	6.7%	7.5%	9.2%
Taiwan	4.4%	4.6%	5.4%	5.2%	5.2%	6.1%	5.9%	6.5%	8.6%	9.8%
Thailand	8.2%	7.9%	13.5%	14.2%	16.6%	17.7%	19.5%	17.8%	19.0%	18.4%
OECD	22.6%	23.5%	24.4%	25.7%	26.2%	27.6%	30.4%	30.1%	31.4%	32.9%
Non-OECD	22.0%	22.2%	23.4%	23.6%	24.5%	25.3%	26.3%	26.5%	27.9%	28.2%
World	22.3%	22.8%	23.9%	24.5%	25.3%	26.3%	28.0%	28.0%	29.3%	30.0%



CO₂ Emissions
from Fossil
Fuels

Total CO₂ Emissions (Million tonnes of carbon dioxide)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	6,658	6,534	6,432	6,395	6,579	6,482	5,846	6,202	6,238	6,159
Canada	613	611	606	614	627	623	567	577	597	589
Mexico	483	489	492	492	462	467	401	421	458	484
United States	5,562	5,435	5,334	5,289	5,490	5,393	4,878	5,204	5,184	5,086
South and Central America	1,399	1,389	1,330	1,306	1,263	1,248	1,112	1,243	1,233	1,239
Argentina	190	198	197	195	184	204	177	177	177	177
Brazil	570	545	493	499	476	476	449	514	499	515
Chile	81	85	90	91	91	97	89	94	93	83
Colombia	91	92	96	84	86	87	82	89	90	94
Peru	53	54	57	54	55	57	46	50	55	n.d.
Trinidad & Tobago	43	43	39	38	38	39	34	35	34	n.d.
Venezuela	166	151	137	130	110	87	47	47	52	62
Other	205	221	222	215	223	229	198	218	227	n.d.
Europe	4,115	4,164	4,184	4,250	4,170	3,981	3,668	3,909	3,816	3,547
Belgium	105	110	109	108	109	108	100	104	97	94
Czech Republic	109	109	110	112	111	106	97	103	101	89
Finland	51	47	51	48	49	46	41	41	39	n.d.
France	336	343	344	351	340	332	295	319	308	287
Germany	793	793	802	784	762	714	659	690	676	608
Italy	349	355	351	347	342	334	297	333	332	310
Netherlands	177	183	184	183	177	171	155	159	142	131
Norway	48	50	49	48	48	47	45	45	44	40
Poland	317	321	331	345	344	326	310	339	321	286
Portugal	50	54	53	58	53	49	43	41	41	37
Romania	78	78	76	80	80	79	74	79	74	72
Spain	262	277	269	286	281	261	220	238	245	224
Sweden	45	45	45	45	42	41	39	42	38	39
Turkey	392	400	432	477	475	451	459	500	505	499
United Kingdom	444	427	401	388	378	361	321	338	324	305
EU	3,103	3,151	3,162	3,196	3,130	2,985	2,710	2,891	2,808	2,576
Other	561	570	576	590	577	556	514	540	529	n.d.
Former Soviet Union	2,568	2,517	2,515	2,575	2,793	2,846	2,740	2,926	2,889	2,939
Azerbaijan	32	33	33	33	34	37	35	38	38	40
Kazakhstan	274	266	279	308	287	283	281	304	295	301
Russia	1,735	1,734	1,711	1,764	1,989	2,052	1,964	2,104	2,138	2,157
Ukraine	266	224	225	204	216	202	194	202	140	n.d.
Uzbekistan	107	105	113	110	105	109	105	115	114	114
Other	154	154	154	157	163	163	160	164	164	n.d.
Middle East	2,161	2,188	2,207	2,212	2,195	2,306	2,255	2,327	2,404	2,418
Iran	687	670	682	718	711	755	771	798	824	854
Iraq	141	139	150	165	178	196	167	171	187	196
Kuwait	105	111	115	117	120	117	117	122	136	135
Qatar	103	104	104	104	106	103	103	100	79	86
Saudi Arabia	601	635	633	595	574	618	599	630	656	662
United Arab Emirates	245	258	256	242	235	246	247	255	262	269
Other	278	272	267	271	272	272	250	252	260	214
Africa	1,408	1,422	1,431	1,451	1,476	1,520	1,379	1,471	1,478	1,446
Algeria	162	173	169	171	181	185	172	186	195	206
Angola	45	45	43	36	33	37	27	34	36	n.d.
Egypt	233	239	250	264	251	276	232	255	259	254
Libya	65	59	53	59	61	61	52	56	61	n.d.
Nigeria	125	118	121	119	126	131	122	134	134	203
South Africa	507	495	489	489	495	491	441	447	425	418
Other	272	292	306	312	328	340	333	359	368	n.d.
Asia-Pacific	18,314	18,349	18,440	18,864	19,428	19,775	19,561	20,259	20,773	21,762
Australia	398	402	407	419	416	416	399	391	371	382
China	11,577	11,348	11,284	11,403	11,762	11,968	12,138	12,699	12,908	13,587
India	2,310	2,482	2,559	2,692	2,818	2,836	2,622	2,772	3,013	3,228
Indonesia	506	531	520	553	641	674	650	638	798	769
Japan	1,270	1,232	1,225	1,217	1,178	1,140	1,078	1,091	1,072	997
Malaysia	215	223	230	242	248	253	237	229	240	243
New Zealand	37	37	36	37	37	38	35	35	32	32
South Korea	659	682	697	707	707	691	644	660	627	602
Taiwan	282	284	288	297	292	280	279	290	286	280
Thailand	292	300	296	299	299	308	300	302	312	312
Other	768	828	897	998	1,031	1,171	1,178	1,151	1,113	1,331
OECD	13,142	13,052	12,990	13,014	13,080	12,753	11,672	12,290	12,158	11,731
Non-OECD	23,472	23,501	23,541	24,031	24,816	25,398	24,889	26,048	26,674	27,779
World	36,622	36,561	36,539	37,053	37,904	38,158	36,561	38,337	38,832	39,510

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)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	2,710	2,776	2,797	2,806	2,878	2,899	2,570	2,761	2,747	2,828
Canada	262	267	264	268	274	271	236	239	254	254
Mexico	267	262	270	261	240	254	209	207	232	234
United States	2,181	2,248	2,263	2,277	2,365	2,374	2,125	2,315	2,261	2,340
South and Central America	848	831	797	779	751	739	648	710	750	773
Argentina	86	92	91	87	81	78	76	84	86	87
Brazil	364	343	314	317	298	300	287	307	325	339
Chile	43	44	47	47	48	48	44	48	51	49
Colombia	44	47	50	44	44	41	37	47	50	50
Peru	27	28	30	31	31	32	26	28	30	n.d.
Trinidad & Tobago	4	4	4	4	3	3	3	3	3	n.d.
Venezuela	112	97	85	78	69	57	24	23	27	36
Other	167	175	176	170	177	180	152	171	179	n.d.
Europe	1,533	1,564	1,599	1,625	1,608	1,590	1,437	1,510	1,544	1,532
Belgium	45	48	47	46	46	44	40	42	41	41
Czech Republic	21	22	21	23	23	23	21	23	23	24
Finland	21	21	22	21	21	21	20	18	19	n.d.
France	191	193	189	190	183	180	158	170	171	167
Germany	256	254	257	255	250	256	242	229	231	221
Italy	152	154	148	143	145	142	119	140	149	152
Netherlands	58	57	59	59	58	56	52	52	51	54
Norway	24	24	24	23	23	22	22	22	22	23
Poland	58	62	69	78	80	82	79	84	85	87
Portugal	25	25	25	26	25	26	23	23	25	23
Romania	24	24	25	27	28	28	27	29	31	32
Spain	133	140	144	145	146	144	121	134	139	134
Sweden	28	27	27	26	24	23	22	25	22	23
Turkey	109	114	133	152	149	140	137	145	154	161
United Kingdom	161	166	171	171	168	162	136	145	146	146
EU	1,188	1,208	1,219	1,226	1,216	1,215	1,096	1,148	1,172	1,150
Other	227	233	237	240	240	240	218	229	235	n.d.
Former Soviet Union	483	481	472	484	515	524	509	543	536	572
Azerbaijan	11	11	11	12	12	12	10	12	13	13
Kazakhstan	38	43	49	49	46	41	46	52	49	55
Russia	347	341	322	337	367	382	366	389	387	395
Ukraine	31	29	31	29	29	30	26	28	24	n.d.
Uzbekistan	9	10	10	10	11	11	12	12	13	13
Other	48	47	49	47	50	49	49	50	51	n.d.
Middle East	1,080	1,061	1,037	1,020	991	1,027	952	992	1,020	997
Iran	279	247	229	244	240	241	220	232	232	243
Iraq	99	93	95	102	105	109	91	93	104	110
Kuwait	67	68	70	72	72	67	66	68	79	73
Qatar	52	49	49	48	49	45	45	42	23	26
Saudi Arabia	368	396	383	339	311	350	331	352	366	370
United Arab Emirates	89	94	101	101	97	101	99	109	115	114
Other	125	115	110	116	116	114	99	96	101	61
Africa	568	576	579	578	580	594	522	568	583	553
Algeria	78	82	79	78	78	79	71	75	79	81
Angola	21	21	19	17	17	19	13	17	18	n.d.
Egypt	118	121	119	113	108	107	85	95	103	97
Libya	37	31	28	28	29	28	25	26	28	n.d.
Nigeria	59	53	56	56	59	63	56	64	63	114
South Africa	70	73	75	76	74	76	61	66	63	64
Other	185	195	204	209	215	221	210	225	230	n.d.
Asia-Pacific	3,263	3,431	3,491	3,595	3,612	3,644	3,480	3,597	3,594	3,853
Australia	140	137	137	139	142	145	140	139	133	145
China	1,241	1,318	1,336	1,384	1,423	1,460	1,445	1,515	1,439	1,638
India	454	527	552	587	604	612	547	580	650	669
Indonesia	209	205	197	208	207	199	184	181	201	202
Japan	459	441	426	414	397	381	356	357	347	326
Malaysia	86	82	85	87	84	90	71	68	79	83
New Zealand	19	19	20	21	21	21	19	19	19	19
South Korea	178	190	197	193	188	189	180	186	160	149
Taiwan	84	87	87	86	83	78	76	76	80	79
Thailand	124	128	132	134	134	137	139	147	155	157
Other	270	297	322	341	329	332	323	329	329	384
OECD	5,073	5,165	5,217	5,233	5,269	5,256	4,729	5,007	4,988	5,034
Non-OECD	5,405	5,549	5,548	5,646	5,657	5,754	5,390	5,675	5,787	6,074
World	10,486	10,721	10,773	10,886	10,934	11,017	10,119	10,681	10,775	11,108

Natural Gas CO₂ Emissions (Million tonnes of carbon dioxide)		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America		1,811	1,864	1,883	1,866	2,045	2,096	2,039	2,080	2,182	2,196
Canada		226	225	226	229	248	247	238	246	257	252
Mexico		140	145	147	151	147	140	128	151	151	158
United States		1,446	1,494	1,510	1,486	1,650	1,709	1,673	1,683	1,774	1,786
South and Central America		303	304	293	293	281	272	244	291	266	261
Argentina		86	87	88	89	85	81	75	92	78	72
Brazil		79	78	67	70	67	67	61	86	70	70
Chile		8	8	9	10	10	12	11	12	13	13
Colombia		21	20	21	19	20	21	21	20	21	22
Peru		18	18	19	17	17	18	15	17	19	n.d.
Trinidad & Tobago		32	31	28	27	28	29	25	26	25	n.d.
Venezuela		46	47	46	47	39	29	22	22	23	24
Other		14	14	15	15	15	16	15	16	16	n.d.
Europe		919	951	1,009	1,054	1,029	1,042	1,017	1,090	965	897
Belgium		29	32	33	33	34	35	34	35	30	28
Czech Republic		15	16	17	17	16	17	17	18	15	13
Finland		6	5	5	5	5	5	5	5	3	n.d.
France		76	81	89	89	85	86	80	86	78	69
Germany		151	156	171	177	174	176	176	188	167	163
Italy		118	129	135	143	139	142	136	148	131	118
Netherlands		68	67	69	71	70	73	71	69	55	52
Norway		13	13	13	14	13	13	12	11	11	7
Poland		30	31	33	34	35	36	37	40	34	37
Portugal		8	10	10	13	12	12	12	12	11	9
Romania		21	21	21	22	22	21	21	23	19	18
Spain		55	57	58	63	63	72	65	68	66	59
Sweden		2	2	2	2	2	2	2	2	2	2
Turkey		94	93	89	104	95	87	93	115	101	99
United Kingdom		140	143	161	157	157	156	146	155	143	128
EU		661	691	733	766	751	773	753	794	697	653
Other		93	97	102	109	107	108	108	115	100	n.d.
Former Soviet Union		1,149	1,090	1,106	1,136	1,253	1,231	1,164	1,269	1,224	1,233
Azerbaijan		20	20	20	20	21	23	23	24	23	25
Kazakhstan		26	25	28	30	33	39	34	43	42	45
Russia		859	819	829	859	975	947	891	977	954	961
Ukraine		73	58	57	56	57	52	53	49	37	n.d.
Uzbekistan		85	82	87	86	80	83	77	89	83	81
Other		85	85	84	86	88	88	85	87	85	n.d.
Middle East		858	905	949	971	979	1,044	1,078	1,104	1,145	1,183
Iran		334	355	383	400	392	430	466	478	501	518
Iraq		13	13	18	24	30	39	35	36	37	38
Kuwait		35	40	42	43	46	49	49	52	55	61
Qatar		41	45	45	47	47	48	49	49	48	53
Saudi Arabia		198	202	214	225	233	236	237	245	256	258
United Arab Emirates		137	144	137	122	119	127	130	126	126	133
Other		99	105	109	110	112	115	113	119	121	124
Africa		224	238	250	266	262	290	277	300	303	314
Algeria		62	70	70	73	80	82	80	88	92	99
Angola		1	1	2	2	2	2	3	3	3	n.d.
Egypt		81	83	94	107	93	118	107	113	110	112
Libya		16	17	16	17	16	17	14	16	17	n.d.
Nigeria		30	30	30	27	29	29	30	31	31	31
South Africa		5	5	5	5	5	5	5	5	5	5
Other		29	31	33	35	36	37	39	44	44	n.d.
Asia-Pacific		1,307	1,332	1,377	1,452	1,557	1,587	1,607	1,699	1,666	1,724
Australia		63	64	62	61	62	61	62	60	58	60
China		371	387	419	484	573	609	644	723	719	770
India		88	88	95	101	106	105	105	114	106	118
Indonesia		76	88	71	70	75	77	68	65	63	70
Japan		249	237	242	237	228	218	217	206	200	188
Malaysia		54	57	57	60	64	69	58	60	61	54
New Zealand		10	9	9	9	8	9	8	7	7	7
South Korea		100	93	99	102	114	110	114	126	125	118
Taiwan		42	45	47	52	53	52	56	61	63	62
Thailand		87	87	86	81	83	87	80	81	75	81
Other		167	176	190	194	193	190	193	196	189	198
OECD		3,161	3,229	3,316	3,337	3,494	3,549	3,471	3,579	3,557	3,489
Non-OECD		3,410	3,455	3,550	3,700	3,913	4,013	3,956	4,254	4,194	4,319
World		6,570	6,684	6,866	7,037	7,407	7,562	7,426	7,833	7,751	7,808

Coal CO₂ Emissions <i>(Million tonnes of carbon dioxide)</i>	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	1,867	1,621	1,492	1,456	1,375	1,188	961	1,083	1,027	854
Canada	76	70	69	70	58	57	46	44	35	33
Mexico	49	54	47	50	43	42	32	27	37	51
United States	1,742	1,498	1,377	1,335	1,274	1,089	883	1,012	955	770
South and Central America	125	128	123	117	117	124	116	126	103	91
Argentina	9	9	8	8	9	7	7	9	9	6
Brazil	60	59	54	54	53	51	46	59	43	43
Chile	27	29	31	31	30	34	31	31	26	19
Colombia	18	17	18	13	14	17	17	13	11	14
Peru	3	3	3	3	2	3	2	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	0	0	0	0	0	0	0
Other	7	9	8	7	8	11	12	13	13	n.d.
Europe	1,298	1,283	1,206	1,193	1,149	980	848	930	936	768
Belgium	14	14	13	13	13	13	10	11	11	11
Czech Republic	63	62	63	62	62	56	49	52	53	43
Finland	20	17	19	18	19	16	12	14	13	n.d.
France	35	36	32	40	42	35	28	32	28	23
Germany	325	323	314	292	277	223	183	214	220	170
Italy	52	48	44	38	35	26	20	22	29	18
Netherlands	40	48	44	40	37	29	20	26	26	16
Norway	3	3	3	3	3	3	3	3	3	3
Poland	202	201	202	203	199	178	165	186	173	137
Portugal	11	13	11	13	11	5	2	1	0	0
Romania	23	24	22	22	21	20	14	16	15	13
Spain	51	57	44	53	47	21	12	13	16	10
Sweden	8	7	7	8	8	7	6	6	6	6
Turkey	141	146	158	167	171	174	170	175	185	172
United Kingdom	125	99	51	42	36	26	24	24	22	19
EU	974	974	930	918	877	716	589	669	667	520
Other	185	184	178	180	170	148	131	136	137	n.d.
Former Soviet Union	698	714	703	717	771	764	735	768	787	785
Azerbaijan	0	0	0	0	0	0	0	0	0	0
Kazakhstan	186	176	182	210	187	185	183	189	185	182
Russia	371	420	401	400	464	468	451	472	527	526
Ukraine	127	104	104	92	102	93	82	90	54	n.d.
Uzbekistan	6	5	8	7	8	7	8	6	11	12
Other	9	9	9	9	10	11	11	11	11	n.d.
Middle East	41	38	35	34	37	39	37	38	39	37
Iran	3	3	3	2	7	8	8	9	9	8
Iraq	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kuwait	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Qatar	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Saudi Arabia	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
United Arab Emirates	8	7	7	9	8	7	9	10	12	13
Other	30	29	25	23	22	23	20	19	19	16
Africa	465	452	443	449	471	466	424	431	413	403
Algeria	0	0	0	0	1	0	0	1	0	0
Angola	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Egypt	0	0	1	7	14	11	5	9	7	8
Libya	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Nigeria	6	6	7	6	7	7	6	6	7	8
South Africa	423	407	398	397	406	401	367	367	346	337
Other	35	38	37	39	44	48	46	49	52	50
Asia-Pacific	11,568	11,455	11,339	11,611	12,133	12,351	12,283	12,757	13,257	13,823
Australia	173	178	183	192	182	178	168	164	152	149
China	8,283	8,020	7,856	7,920	8,239	8,311	8,439	8,860	9,123	9,468
India	1,588	1,693	1,708	1,791	1,904	1,914	1,780	1,878	2,040	2,208
Indonesia	181	197	205	224	304	347	354	347	477	443
Japan	486	480	474	478	465	457	425	447	442	404
Malaysia	60	68	74	81	87	83	97	90	90	95
New Zealand	6	6	5	5	5	6	6	7	4	4
South Korea	336	346	347	352	352	341	299	297	292	284
Taiwan	156	151	154	159	156	150	147	153	143	138
Thailand	61	65	60	64	62	64	60	53	60	53
Other	237	249	274	344	377	501	507	462	434	578
OECD	4,132	3,873	3,668	3,630	3,486	3,119	2,680	2,892	2,806	2,425
Non-OECD	11,928	11,818	11,673	11,946	12,567	12,792	12,724	13,241	13,756	14,337
World	16,060	15,691	15,342	15,576	16,053	15,911	15,404	16,133	16,562	16,761

CO₂ Emissions Intensity to GDP (kCO ₂ /thousand \$15ppp)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	308	293	284	276	277	266	248	249	244	234
Canada	356	353	347	342	340	331	316	306	306	298
Mexico	211	207	202	198	180	183	168	169	178	182
United States	303	288	279	270	272	260	242	244	238	228
South and Central America	183	181	178	174	164	164	155	159	156	156
Argentina	215	218	221	212	205	200	210	223	199	193
Brazil	161	159	149	149	139	137	134	146	138	138
Chile	196	202	210	211	201	213	210	198	191	170
Colombia	136	134	137	117	117	115	118	114	107	112
Peru	142	141	143	133	129	131	119	115	121	n.d.
Trinidad & Tobago	887	887	860	875	893	899	851	880	847	n.d.
Venezuela	259	251	277	311	335	368	280	270	283	321
Europe	171	169	166	163	156	147	142	143	134	123
Belgium	181	186	181	177	176	171	165	162	146	139
Czech Republic	295	282	279	269	258	238	230	235	226	199
Finland	206	190	199	183	185	170	155	151	138	n.d.
France	115	117	116	116	111	106	102	103	97	90
Germany	196	193	192	182	175	162	154	158	152	137
Italy	148	150	146	143	139	135	132	138	133	123
Netherlands	202	206	203	195	184	174	164	160	137	126
Norway	132	133	128	125	123	118	115	111	105	96
Poland	300	291	293	290	273	247	239	247	223	198
Portugal	147	158	153	161	145	128	121	109	104	91
Romania	166	162	154	149	142	133	128	131	118	112
Spain	154	158	149	153	147	134	126	130	126	113
Sweden	85	81	80	77	71	68	67	68	61	62
Turkey	181	174	183	188	182	174	170	166	160	151
United Kingdom	157	147	135	128	122	115	115	113	104	98
EU	174	173	170	166	159	149	143	144	135	124
Former Soviet Union	452	452	448	449	472	458	450	458	467	457
Azerbaijan	213	217	228	226	227	239	241	243	232	244
Kazakhstan	621	598	628	672	596	568	580	599	564	547
Russia	445	456	448	452	498	487	476	485	504	490
Ukraine	478	440	431	388	397	358	354	354	346	n.d.
Uzbekistan	514	468	475	442	400	390	369	375	354	332
Middle East	412	408	392	390	382	400	406	404	393	390
Iran	537	535	499	511	518	565	559	551	554	549
Iraq	337	304	286	324	338	352	341	344	352	376
Kuwait	569	594	603	645	645	638	699	717	744	754
Qatar	409	394	382	390	392	379	395	377	283	305
Saudi Arabia	376	379	370	350	329	351	355	360	345	350
United Arab Emirates	403	395	374	349	335	348	370	367	351	350
Africa	222	217	213	209	206	206	190	193	186	177
Algeria	306	318	302	302	316	318	313	327	332	336
Angola	107	109	102	95	97	110	84	107	109	n.d.
Egypt	195	193	192	197	176	183	149	158	151	143
Libya	381	351	327	251	234	263	321	263	287	n.d.
Nigeria	99	91	95	91	95	97	92	98	94	139
South Africa	664	640	626	619	619	612	587	566	524	512
Asia-Pacific	400	380	360	350	340	330	330	320	320	320
Australia	349	344	338	339	325	316	305	292	267	270
China	597	548	507	483	473	452	449	436	455	466
India	321	323	304	300	297	287	282	274	278	276
Indonesia	185	185	170	172	191	193	192	181	215	197
Japan	237	227	224	218	210	204	201	200	194	177
Malaysia	279	276	275	276	271	266	264	247	239	233
New Zealand	207	196	185	188	178	181	168	161	144	143
South Korea	332	332	331	325	316	303	284	280	259	245
Taiwan	539	538	539	540	516	481	463	453	436	423
Thailand	258	258	247	238	228	231	239	237	238	234
OECD	238	230	225	219	215	206	196	196	188	179
Non-OECD	378	364	348	341	338	332	310	310	310	310
World	309	299	289	283	281	274	270	267	262	258

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

CO₂ Emissions per capita (tCO ₂ per capita)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	14.1	13.7	13.4	13.2	13.5	13.2	11.8	12.5	12.5	12.2
Canada	17.3	17.1	16.8	16.8	16.9	16.6	14.9	15.1	15.3	14.7
Mexico	4.1	4.1	4.0	4.0	3.7	3.7	3.2	3.3	3.6	3.8
United States	17.5	16.9	16.5	16.3	16.8	16.4	14.7	15.7	15.6	15.2
South and Central America	2.8	2.8	2.6	2.6	2.5	2.4	2.1	2.4	2.3	2.3
Argentina	4.5	4.6	4.5	4.4	4.1	3.9	3.7	4.3	3.9	3.7
Brazil	2.8	2.7	2.4	2.4	2.3	2.2	2.1	2.4	2.3	2.4
Chile	4.6	4.7	5.0	5.0	4.9	5.1	4.6	4.8	4.7	4.2
Colombia	1.9	2.0	2.0	1.7	1.7	1.7	1.6	1.7	1.7	1.8
Peru	1.7	1.8	1.8	1.7	1.7	1.7	1.4	1.5	1.6	n.d.
Trinidad & Tobago	29.4	29.2	26.6	25.9	25.5	25.5	22.3	22.7	22.3	n.d.
Venezuela	5.5	4.9	4.5	4.2	3.7	3.0	1.7	1.6	1.9	2.2
Other	1.7	1.8	1.8	1.7	1.8	1.8	1.5	1.7	1.7	n.d.
Europe	6.7	6.7	6.7	6.8	6.6	6.3	5.8	6.2	6.0	5.6
Belgium	9.4	9.8	9.6	9.5	9.5	9.4	8.6	9.0	8.3	7.9
Czech Republic	10.3	10.3	10.4	10.6	10.5	9.9	9.0	9.8	9.6	8.4
Finland	9.3	8.6	9.2	8.8	9.0	8.3	7.5	7.5	7.0	n.d.
France	5.1	5.2	5.2	5.2	5.1	4.9	4.4	4.7	4.5	4.2
Germany	9.8	9.7	9.7	9.5	9.2	8.6	7.9	8.3	8.0	7.2
Italy	5.7	5.8	5.8	5.7	5.7	5.6	5.0	5.6	5.6	5.3
Netherlands	10.5	10.8	10.8	10.7	10.3	9.8	8.9	9.0	8.0	7.3
Norway	9.4	9.6	9.3	9.2	9.1	8.7	8.3	8.3	8.1	7.3
Poland	8.3	8.5	8.7	9.1	9.1	8.6	8.2	9.0	8.5	7.8
Portugal	4.8	5.2	5.1	5.6	5.2	4.7	4.2	4.0	4.0	3.6
Romania	3.9	3.9	3.9	4.1	4.1	4.1	3.8	4.1	3.9	3.8
Spain	5.6	6.0	5.8	6.1	6.0	5.5	4.7	5.0	5.1	4.7
Sweden	4.7	4.6	4.5	4.5	4.2	4.0	3.8	4.0	3.6	3.7
Turkey	5.0	5.0	5.3	5.8	5.7	5.4	5.5	5.9	5.9	5.8
United Kingdom	6.9	6.6	6.1	5.9	5.7	5.4	4.8	5.0	4.8	4.5
EU	7.0	7.1	7.1	7.2	7.0	6.7	6.1	6.5	6.3	5.7
Other	6.0	6.1	6.1	6.3	6.2	6	5	6	6	n.d.
Former Soviet Union	8.2	8.0	8.0	8.2	8.3	8.3	8.3	8.3	8.3	8.3
Azerbaijan	3.3	3.2	3.3	3.3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kazakhstan	13.6	13.0	13.1	13.2	13.5	13.5	13.5	13.5	13.5	13.5
Russia	11.1	11.1	11.0	11.7	12.1	12.1	12.1	12.1	12.1	12.1
Ukraine	5.1	4.2	4.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Uzbekistan	3.3	2.9	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8
Other	154	154	154	157	163	163	160	164	164	n.d.
Middle East	9.0	8.9	8.8	8.7	8.5	8.7	8.4	8.6	8.8	8.7
Iran	8.6	8.2	8.2	8.5	8.3	8.7	8.8	9.1	9.3	9.6
Iraq	3.8	3.7	3.9	4.2	4.4	4.7	3.9	3.9	4.2	4.3
Kuwait	28.0	28.3	28.5	28.5	27.7	26.4	26.8	28.6	32.0	31.1
Qatar	46.4	42.9	39.9	38.4	38.2	36.5	37.3	37.3	29.3	31.5
Saudi Arabia	18.7	19.4	18.9	17.4	16.4	17.2	16.6	17.5	18.0	17.8
United Arab Emirates	27.7	28.9	28.4	26.6	25.7	26.7	26.6	27.3	27.7	28.3
Other	3.6	3.5	3.4	3.4	3.3	3.3	2.9	2.9	2.9	2.4
Africa	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.0	1.0
Algeria	4.2	4.4	4.2	4.2	4.3	4.3	4.0	4.2	4.3	4.5
Angola	1.6	1.6	1.5	1.2	1.1	1.1	0.8	1.0	1.0	n.d.
Egypt	2.4	2.4	2.5	2.6	2.4	2.6	2.2	2.3	2.3	2.2
Libya	10.6	9.6	8.5	9.3	9.4	9.3	7.9	8.3	n.d.	n.d.
Nigeria	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9
South Africa	9.3	8.9	8.7	8.6	8.6	8.5	7.5	7.5	7.1	6.9
Other	0.35	0.37	0.38	0.38	0.38	0.39	0.37	0.39	0.39	n.d.
Asia-Pacific	4.5	4.5	4.5	4.6	4.6	4.7	4.6	4.7	4.8	5.0
Australia	17.0	16.9	16.8	17.0	16.7	16.4	15.6	15.2	14.3	14.5
China	8.4	8.2	8.1	8.2	8.4	8.5	8.6	9.0	9.1	9.6
India	1.8	1.9	1.9	2.0	2.1	2.1	1.9	2.0	2.1	2.3
Indonesia	2.0	2.1	2.0	2.1	2.4	2.5	2.4	2.3	2.9	2.8
Japan	10.0	9.7	9.6	9.6	9.3	9.0	8.5	8.7	8.6	8.0
Malaysia	7.0	7.2	7.3	7.6	7.6	7.7	7.1	6.8	7.1	7.1
New Zealand	8.3	8.0	7.6	7.8	7.5	7.6	6.9	6.8	6.2	6.1
South Korea	13.0	13.4	13.6	13.8	13.7	13.4	12.4	12.8	12.2	11.7
Taiwan	12.0	12.1	12.2	12.6	12.4	11.9	11.8	12.3	12.1	11.9
Thailand	4.2	4.3	4.2	4.2	4.2	4.3	4.2	4.2	4.4	4.3
Other	1.0	1.1	1.1	1.3	1.3	1.4	1.4	1.4	1.3	1.5
OECD	9.9	9.8	9.7	9.7	9.6	9.4	8.5	9.0	8.8	8.5
Non-OECD	3.9	3.9	3.8	3.9	3.9	4.0	3.9	4.0	4.1	4.2
World	5.0	4.9	4.9	4.9	5.0	4.9	4.7	4.9	4.9	4.9

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



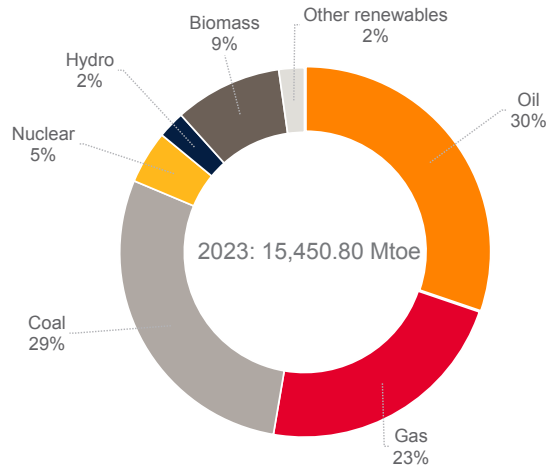
Primary Energy
Intensity to GDP

Primary Energy Intensity to GDP (ktep/\$15ppp)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
North America	129	125	122	119	119	117	111	110	109	106
Canada	178	175	180	182	180	178	175	170	167	164
Mexico	88	85	82	79	79	79	80	79	80	80
United States	125	120	117	114	114	111	106	105	104	101
South and Central America	92	92	91	90	88	89	90	89	88	88
Argentina	95	95	97	93	92	94	97	98	93	93
Brazil	103	105	104	105	101	102	104	105	102	103
Chile	89	90	94	94	92	97	93	89	90	85
Colombia	66	65	64	60	58	62	62	59	57	59
Peru	64	64	64	64	64	65	61	59	60	n.d.
Trinidad & Tobago	483	469	440	466	474	481	446	472	453	n.d.
Venezuela	109	109	120	136	135	168	189	184	187	197
Europe	80	79	79	77	75	73	72	72	65	62
Belgium	103	101	105	103	98	98	96	100	88	80
Czech Republic	124	117	113	112	109	104	104	106	101	95
Finland	148	140	142	137	137	133	129	132	122	n.d.
France	93	93	90	88	86	83	81	81	71	71
Germany	80	79	78	76	74	71	69	70	65	59
Italy	66	68	67	67	65	64	65	66	60	57
Netherlands	85	79	82	79	73	77	77	76	65	62
Norway	92	81	89	91	90	85	85	85	72	66
Poland	97	94	95	95	94	86	86	85	77	72
Portugal	70	71	69	70	66	63	64	61	57	52
Romania	76	74	72	70	66	63	64	64	56	54
Spain	73	72	71	72	70	67	68	68	65	61
Sweden	104	92	97	97	97	93	86	87	81	83
Turkey	69	72	73	73	70	70	67	65	60	58
United Kingdom	67	65	63	60	59	56	57	55	51	48
EU	84	83	82	81	78	76	75	75	68	65
Former Soviet Union	195	194	196	198	204	191	194	201	201	198
Azerbaijan	98	100	103	103	102	109	111	111	104	109
Kazakhstan	189	184	199	200	199	191	182	183	176	172
Russia	198	199	203	206	217	202	206	216	220	213
Ukraine	208	213	200	196	198	183	184	188	189	n.d.
Uzbekistan	223	207	195	191	168	168	163	170	154	143
Middle East	157	160	158	156	157	164	167	164	163	167
Iran	210	213	200	210	212	233	233	227	228	227
Iraq	119	113	106	121	134	135	130	126	137	147
Kuwait	156	193	216	218	218	225	225	221	223	223
Qatar	192	183	169	189	184	191	201	203	198	202
Saudi Arabia	151	158	165	153	153	157	156	154	155	155
United Arab Emirates	140	139	134	114	118	126	138	133	127	131
Africa	137	133	134	132	129	131	130	129	127	123
Algeria	112	113	109	111	117	120	118	124	126	131
Angola	60	71	68	69	65	70	73	81	83	n.d.
Egypt	81	77	80	84	77	77	69	73	70	67
Libya	165	159	162	137	114	145	92	106	123	n.d.
Nigeria	159	153	161	159	156	161	165	163	162	158
South Africa	192	179	179	176	171	180	181	172	162	159
Asia-Pacific	140	130	130	120	120	120	120	120	120	120
Australia	120	118	114	114	111	111	111	105	101	101
China	184	171	158	153	150	148	149	146	145	147
India	125	120	116	114	112	108	109	108	107	105
Indonesia	77	78	79	73	80	84	79	76	84	82
Japan	87	85	84	83	81	80	78	79	77	73
Malaysia	123	111	106	102	107	109	107	110	103	93
New Zealand	136	133	128	124	116	117	114	110	104	108
South Korea	143	142	143	140	136	132	131	133	130	125
Taiwan	227	224	222	216	212	201	191	187	176	165
Thailand	135	131	130	122	118	118	121	122	121	121
OECD	102	99	98	96	95	93	90	90	86	83
Non-OECD	145	140	136	134	132	131	133	132	129	128
World	128	124	121	119	118	117	116	115	112	111

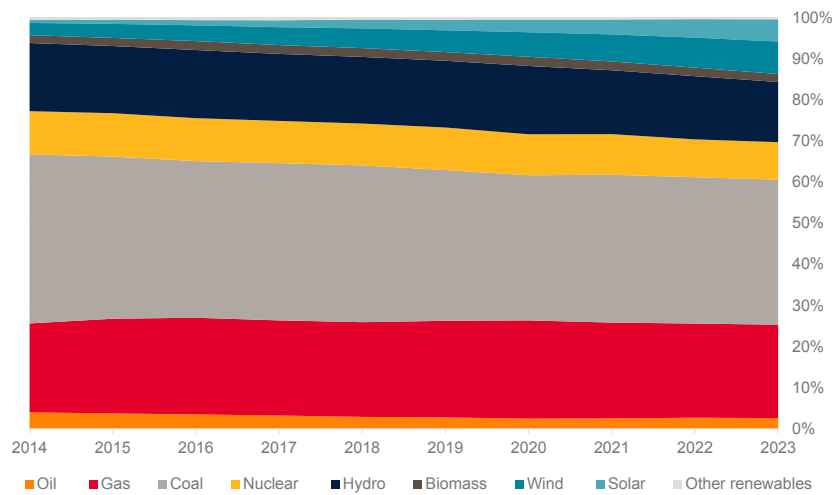


Regional
and country
data

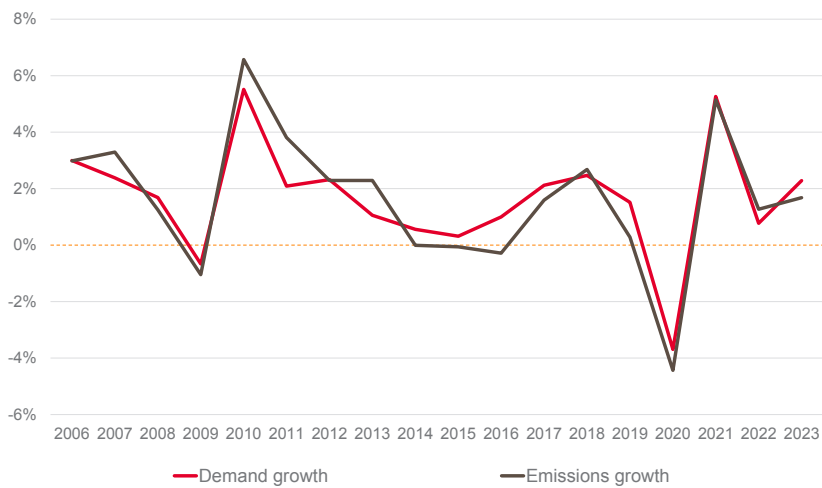
Primary energy demand mix



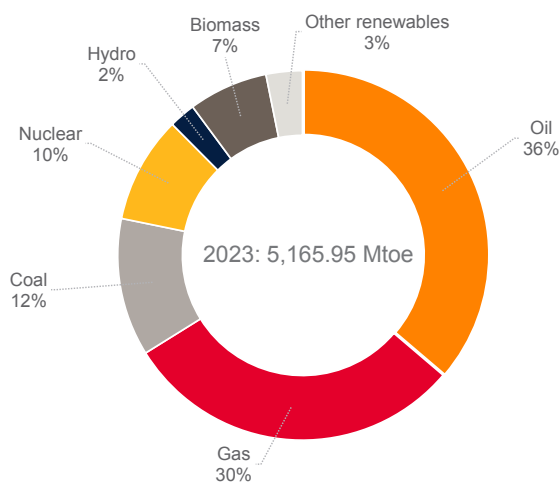
Electricity generation by source



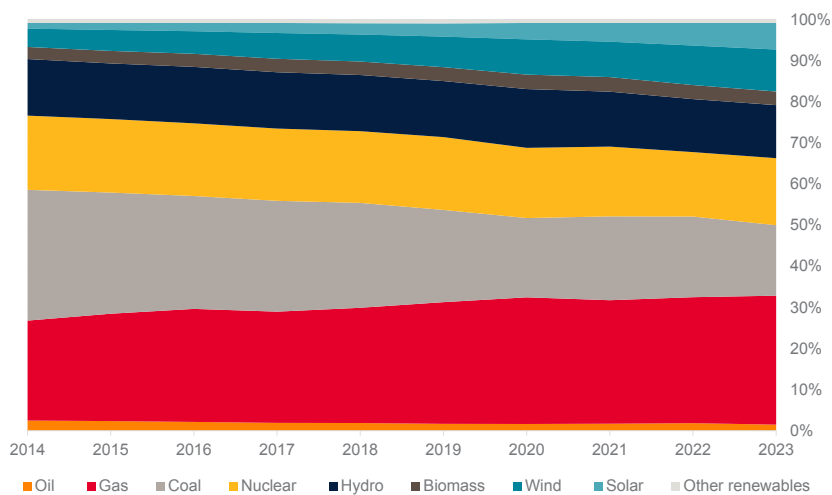
Primary energy demand and CO₂ emissions growth



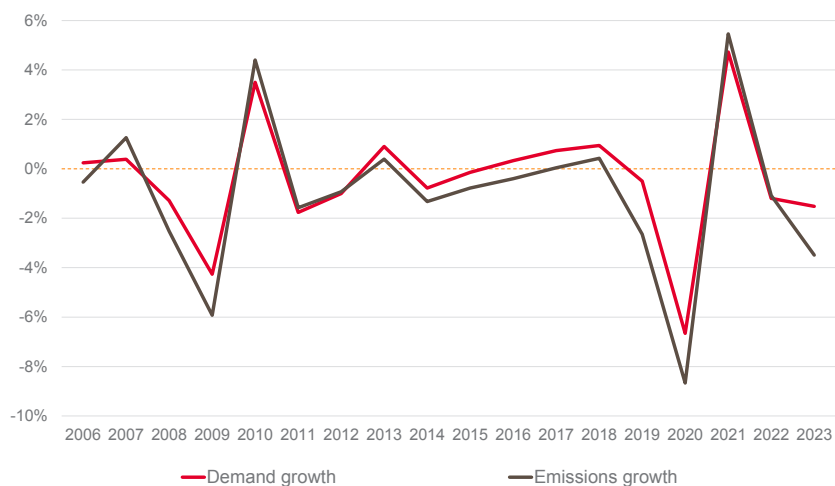
Primary energy demand mix



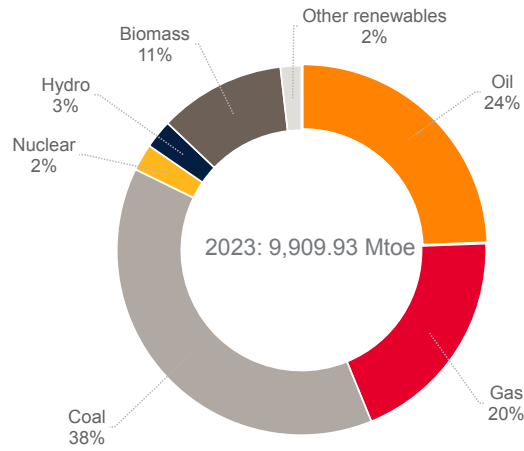
Electricity generation by source



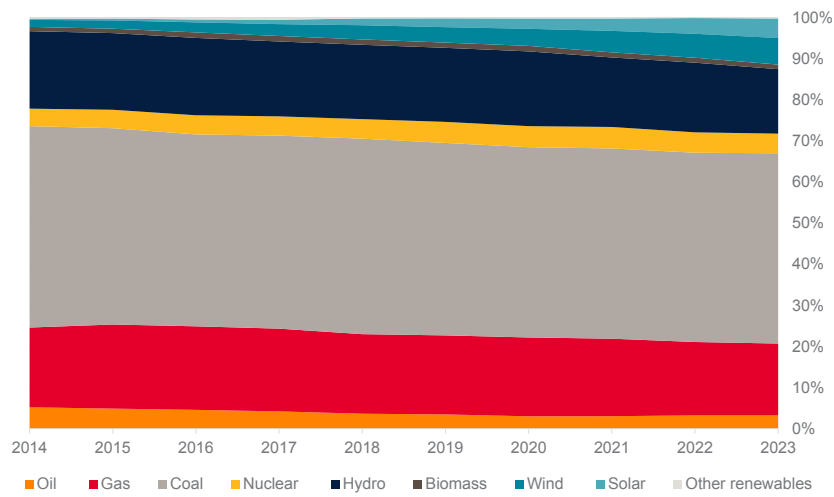
Primary energy demand and CO₂ emissions growth



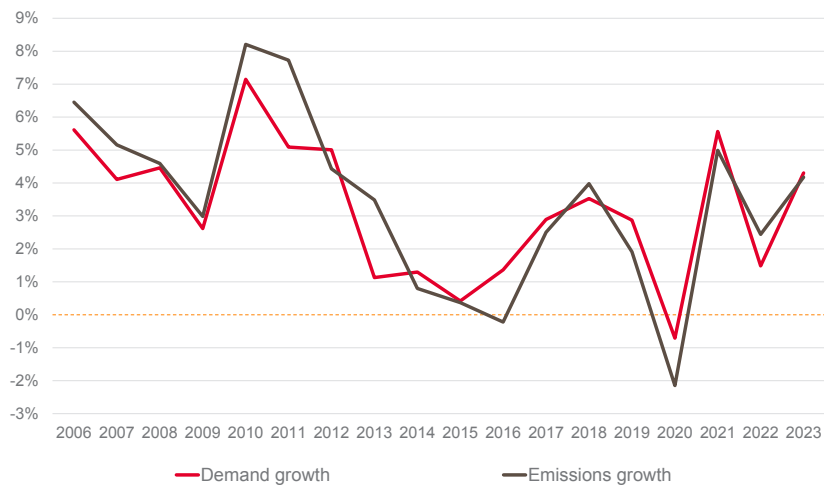
Primary energy demand mix



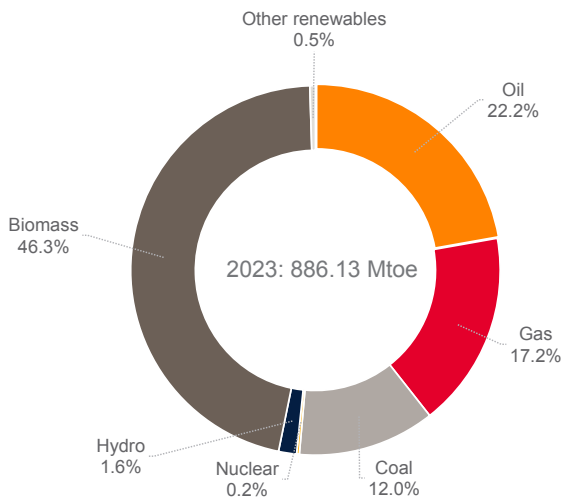
Electricity generation by source



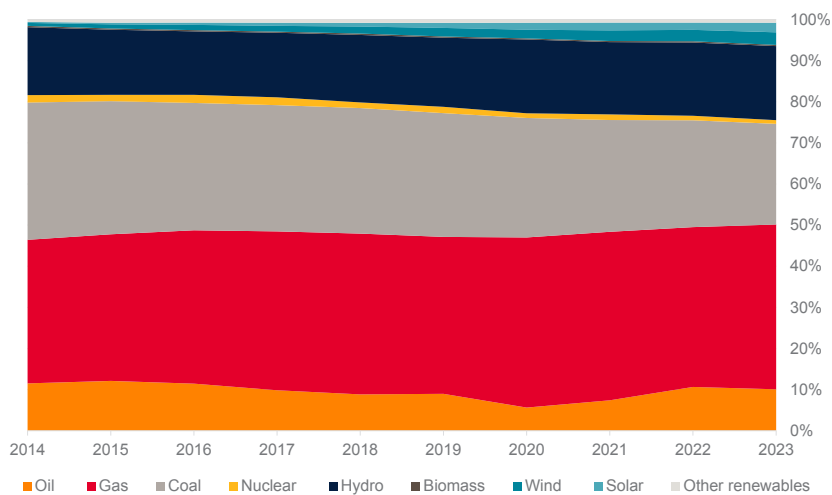
Primary energy demand and CO₂ emissions growth



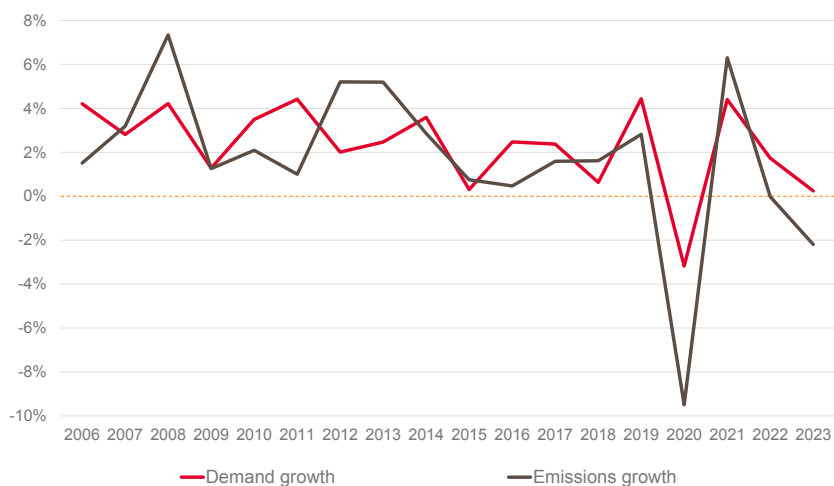
Primary energy demand mix



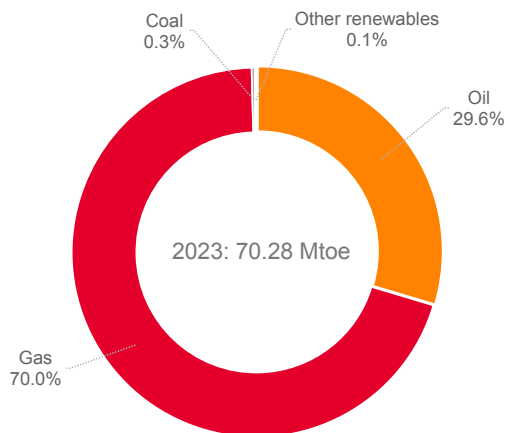
Electricity generation by source



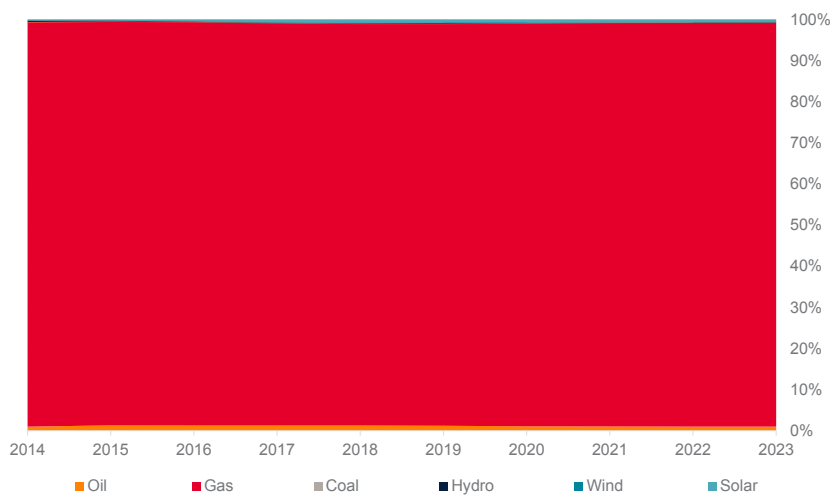
Primary energy demand and CO₂ emissions growth



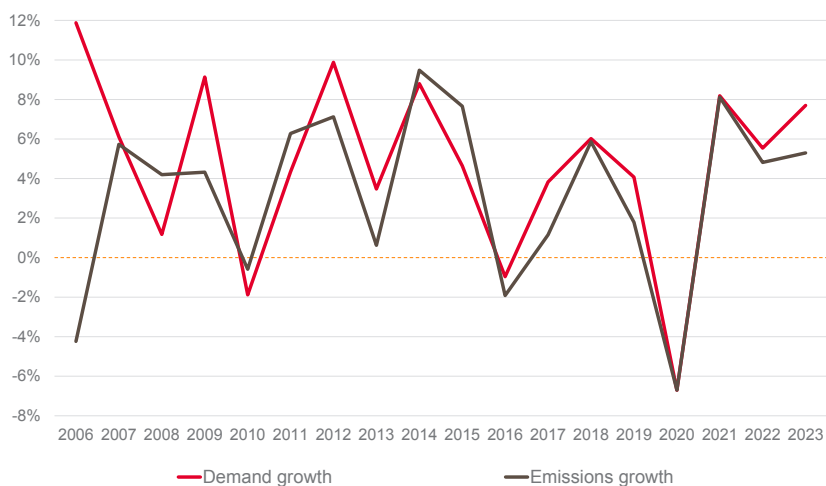
Primary energy demand mix



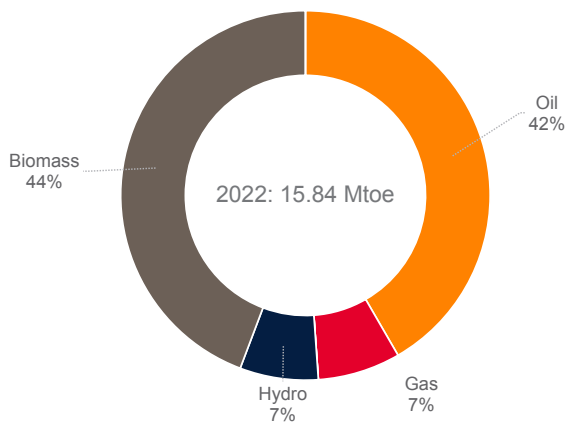
Electricity generation by source



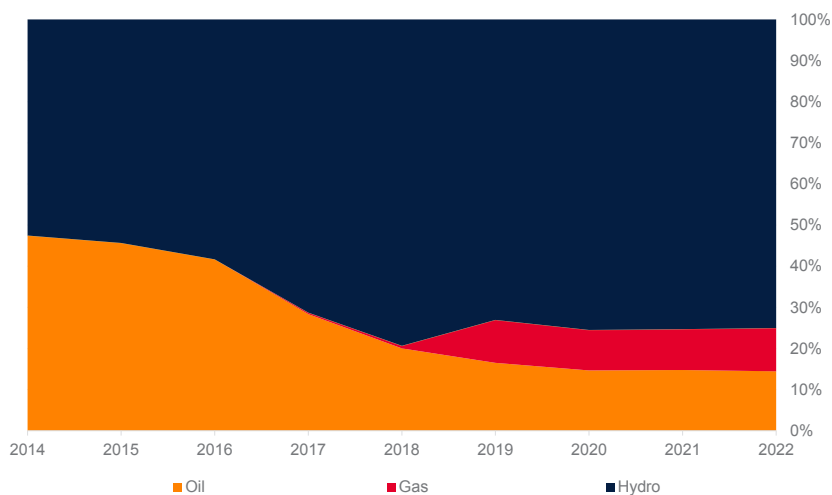
Primary energy demand and CO₂ emissions growth



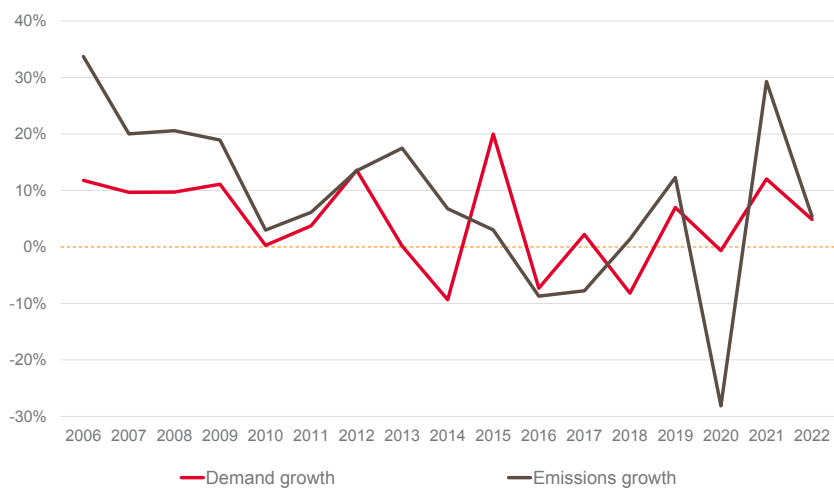
Primary energy demand mix



Electricity generation by source

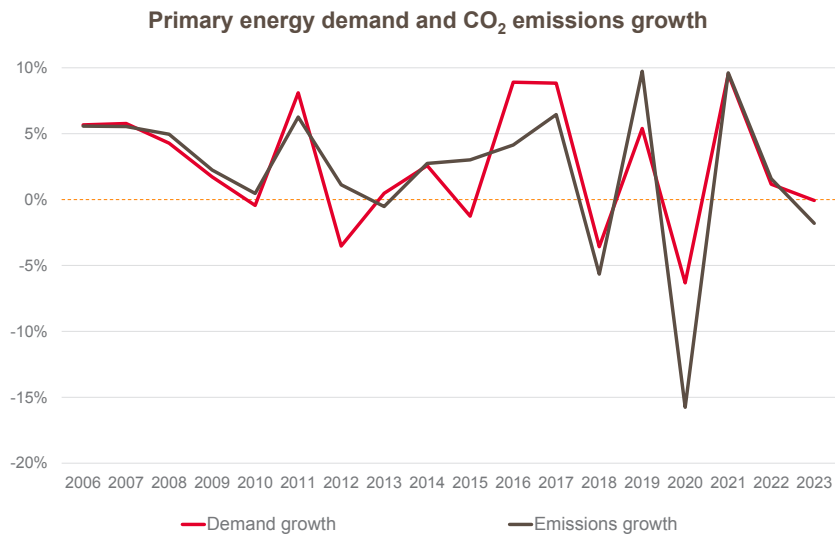
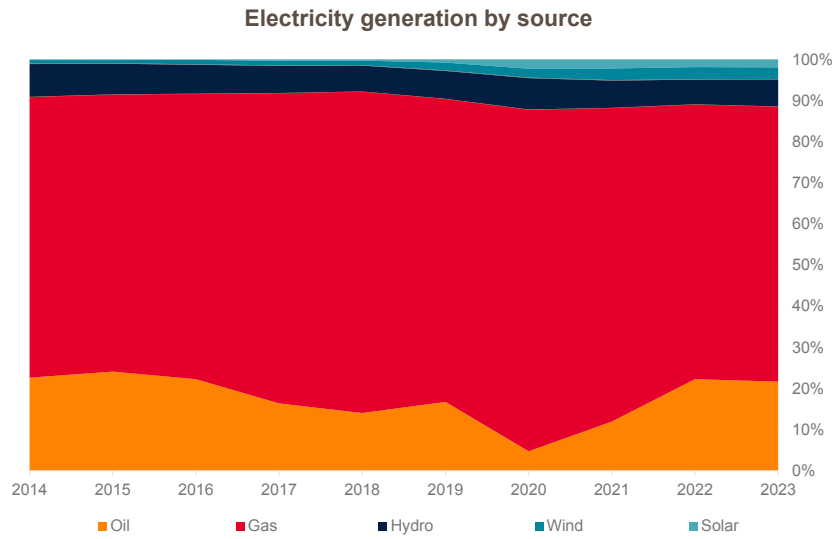
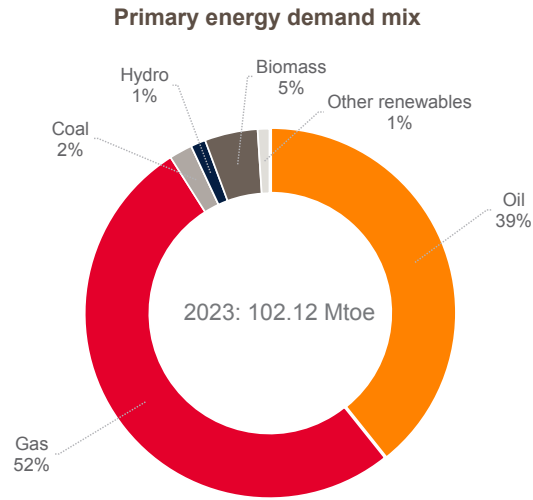


Primary energy demand and CO₂ emissions growth



Egypt (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	82.8	81.7	89.0	96.9	93.4	98.5	92.2	101.0	102.2	102.1	100.0
Oil	40.9	38.9	41.3	41.8	39.0	36.8	32.7	37.9	40.7	40.1	39.3
Gas	35.7	36.8	41.4	47.4	44.9	52.7	51.0	53.7	52.5	52.8	51.7
Coal	0.4	0.4	0.5	1.8	3.7	2.9	1.5	2.5	2.0	2.1	2.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.2	1.2	1.1	1.1	1.1	1.3	1.3	1.2	1.3	1.3
Biomass	4.4	4.5	4.5	4.5	4.6	4.6	5.0	4.8	4.8	4.7	4.6
Other renewables	0.1	0.1	0.2	0.2	0.2	0.4	0.8	1.0	1.0	1.0	1.0
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	0.0	0.0
Total final consumption, by source	53.1	54.8	59.7	61.2	62.6	60.9	57.3	59.9	62.6	63.5	100.0
Oil	28.9	29.1	31.6	30.2	30.4	28.1	26.2	27.2	28.6	28.8	45.4
Gas	9.0	10.0	11.6	14.0	12.3	14.3	13.5	14.3	15.1	15.3	24.1
Coal	0.2	0.2	0.2	1.6	3.3	2.7	1.4	2.3	1.9	1.9	3.0
Electricity	12.6	13.3	14.0	13.0	14.2	13.4	13.5	13.6	14.4	15.0	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	2.3	2.3	2.3	2.3	2.4	2.4	2.7	2.5	2.5	2.5	3.9
Electricity generation, by source	14.9	15.5	16.5	16.8	17.4	16.7	17.0	19.1	20.0	20.3	100.0
Oil	3.4	3.7	3.7	2.7	2.4	2.8	0.8	2.3	4.4	4.4	21.7
Gas	10.2	10.5	11.5	12.7	13.6	12.3	14.1	14.6	13.4	13.6	66.9
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	1.2	1.2	1.2	1.1	1.1	1.1	1.3	1.3	1.2	1.3	6.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.6	2.8
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.4	0.4	1.9
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	53.1	54.8	59.7	61.2	62.6	60.9	57.3	59.9	62.6	63.5	100.0
Industry	12.9	13.2	15.5	17.6	18.5	18.0	15.0	15.5	15.8	15.9	25.0
Transport	17.0	17.7	18.1	18.4	18.0	17.5	16.7	17.8	19.1	19.5	30.7
Residential/Commercial	16.3	17.0	17.8	17.0	17.0	16.9	16.6	17.1	17.7	18.1	28.6
Oil final consumption, by sector	28.9	29.1	31.6	30.2	30.4	28.1	26.2	27.2	28.6	28.8	100.0
Industry	5.3	4.7	5.4	5.1	4.9	4.2	3.4	2.8	3.0	2.9	10.1
Transport	16.6	17.3	17.8	18.0	17.6	17.1	16.2	17.2	18.4	18.7	64.8
Residential/Commercial	4.5	4.7	4.7	4.6	4.5	4.3	4.0	4.0	3.9	4.0	13.7
Natural gas final consumption, by sector	9.0	10.0	11.6	14.0	12.3	14.3	13.5	14.3	15.1	15.3	100.0
Industry	3.4	4.3	5.7	6.6	5.8	6.3	5.5	5.8	6.0	6.1	39.7
Transport	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.7	0.7	4.9
Residential/Commercial	1.5	1.5	1.7	2.0	1.8	2.3	2.2	2.4	2.6	2.6	17.2
Refined products consumption	28.9	29.1	31.6	30.2	30.4	28.1	26.2	27.2	28.6	28.8	100.0
Gasoline	6.6	7.2	7.6	7.4	7.5	7.4	6.9	6.6	7.0	7.2	25.1
Diesel	12.4	12.7	13.5	13.5	13.5	12.0	12.0	13.0	13.6	13.5	46.8
Heating Oil	3.0	2.3	2.3	2.5	1.8	2.0	1.0	0.4	0.6	0.5	1.7
Aviation Jet	0.6	0.6	0.6	0.6	0.5	0.7	0.4	0.8	1.0	1.2	4.2
LPG	4.6	4.7	4.7	4.6	4.5	4.3	4.0	4.1	3.9	4.0	13.8
Imports	20.9	25.0	29.8	27.4	23.9	16.4	19.6	23.1	22.0	22.3	100.0
Oil	20.1	19.3	22.0	20.9	19.2	16.4	17.8	19.8	16.7	15.0	67.4
Gas	0.8	5.7	7.8	6.4	4.7	0.0	1.8	3.4	5.3	7.3	32.6
Gasoline	2.2	2.7	3.1	2.9	2.9	2.3	1.5	2.4	2.2	2.3	10.4
Diesel	6.2	7.0	7.7	7.6	6.6	5.8	2.3	5.1	4.4	6.6	29.7
Heating Oil	4.1	3.6	2.2	1.4	0.5	0.0	0.0	0.0	0.5	0.5	2.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.4	2.6	2.7	2.7	2.6	2.5	2.1	2.3	1.9	1.8	8.1
Exports	14.3	15.3	14.4	15.7	15.6	18.0	19.7	20.7	15.4	9.3	100.0
Oil	14.1	15.1	13.2	13.7	14.8	13.9	17.9	13.0	7.3	6.0	64.2
Gas	0.3	0.2	1.1	1.9	0.9	4.1	1.7	7.7	8.1	3.3	35.8
Gasoline	0.0	0.2	0.2	0.1	0.3	0.3	0.1	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0	0.0	0.3
Heating Oil	0.0	0.0	0.0	0.0	0.2	0.3	4.8	2.6	0.0	0.0	0.0
Aviation Jet	0.4	1.0	0.9	0.8	1.0	1.3	1.5	0.6	0.4	0.2	2.3
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	199.2	205.2	213.7	227.5	214.7	235.6	198.4	217.5	221.0	217.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	195.4	192.8	192.5	196.7	176.2	183.1	149.0	158.1	150.7	142.6	-
Final energy intensity (toe/million \$15ppp)	46.7	46.4	47.7	47.1	45.7	41.9	37.7	37.8	37.0	36.3	-
Total energy intensity (toe/million \$15ppp)	81.2	76.8	80.2	83.7	76.7	76.5	69.3	73.4	69.7	67.1	-

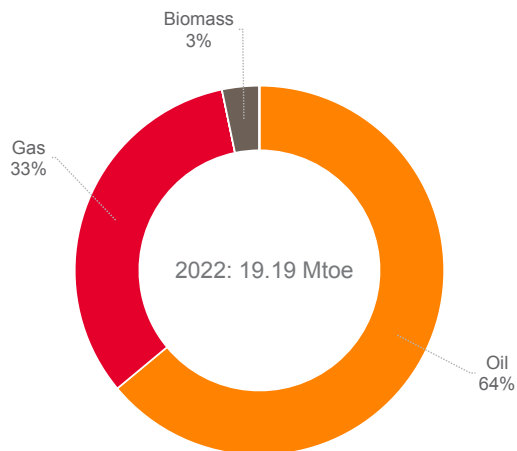
*Heat is included



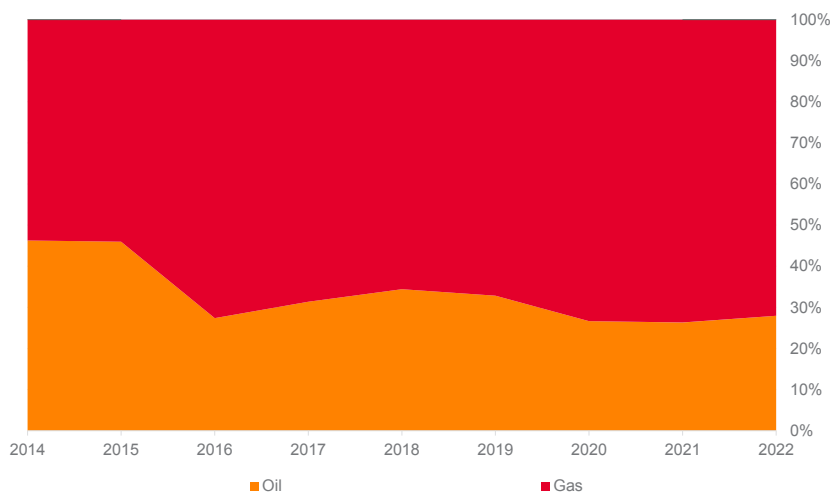
Libya (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2022 (%)
Total primary energy demand, by source	22.8	21.9	21.9	24.6	22.1	24.8	11.1	16.8	19.2	n.d	100.0
Oil	14.0	10.9	8.8	9.0	8.9	15.0	7.5	10.4	12.2	n.d	63.7
Gas	8.2	10.4	12.5	15.0	12.6	9.2	2.8	5.7	6.3	n.d	32.7
Coal	0.0	0.0	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	3.2
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	0.1	0.1	0.1	0.1	n.d	0.4
Total final consumption, by source	11.3	9.9	9.6	9.2	9.2	9.1	8.4	8.9	9.5	n.d	100.0
Oil	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	7.1	n.d	74.6
Gas	1.7	2.4	1.1	1.0	0.8	0.7	0.2	0.6	0.6	n.d	6.2
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d	0.0
Electricity	1.5	1.3	1.2	1.2	1.5	1.5	1.5	1.6	1.6	n.d	16.4
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	n.d	2.9
Electricity generation, by source	3.2	3.2	2.7	2.9	2.9	3.0	2.5	2.7	2.8	n.d	100.0
Oil	1.5	1.5	0.7	0.9	1.0	1.0	0.7	0.7	0.8	n.d	27.9
Gas	1.7	1.7	2.0	2.0	1.9	2.0	1.9	2.0	2.0	n.d	72.0
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	11.3	9.9	9.6	9.2	9.2	9.1	8.4	8.9	9.5	n.d	100.0
Industry	1.9	1.5	1.2	1.1	1.1	0.9	0.5	0.8	0.8	n.d	8.6
Transport	6.6	5.1	6.2	5.8	5.7	5.8	5.7	5.7	6.3	n.d	65.9
Residential/Commercial	2.0	1.7	1.7	1.7	2.0	2.0	2.0	2.0	2.0	n.d	21.3
Oil final consumption, by sector	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	7.1	n.d	100.0
Industry	0.7	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4	n.d	5.5
Transport	6.6	5.1	6.2	5.8	5.7	5.8	5.7	5.7	6.3	n.d	88.4
Residential/Commercial	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	n.d	5.4
Natural gas final consumption, by sector	1.7	2.4	1.1	1.0	0.8	0.7	0.2	0.6	0.6	n.d	100.0
Industry	1.1	1.0	0.6	0.6	0.5	0.4	0.1	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	7.9	6.0	7.1	6.8	6.7	6.6	6.4	6.5	7.1	n.d	100.0
Gasoline	4.1	4.0	4.2	4.2	4.2	4.3	4.7	4.7	5.2	n.d	72.6
Diesel	2.5	1.1	1.9	1.6	1.4	1.5	1.0	1.0	1.1	n.d	15.6
Heating Oil	0.7	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4	n.d	5.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d	0.1
LPG	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	n.d	4.2
Imports	8.2	6.9	6.2	6.0	5.8	6.7	6.2	6.1	6.5	n.d	100.0
Oil	8.2	6.9	6.2	6.0	5.8	6.7	6.2	6.1	6.5	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	3.5	3.5	3.8	3.7	3.8	4.1	4.5	4.5	4.9	n.d	76.1
Diesel	4.4	3.3	2.2	2.1	1.9	2.4	1.5	1.3	1.4	n.d	21.1
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	n.d	1.4
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	25.1	23.4	21.8	46.5	58.0	60.9	23.2	61.4	51.9	n.d	100.0
Oil	19.8	17.6	17.8	42.7	54.4	56.2	19.5	58.8	49.8	n.d	95.9
Gas	5.3	5.8	3.9	3.8	3.7	4.7	3.7	2.6	2.1	n.d	4.1
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	0.0	0.3	0.4	0.3	0.2	0.0	0.0	0.0	0.0	n.d	0.0
Aviation Jet	0.4	0.3	0.1	0.4	0.6	0.4	0.3	0.5	0.5	n.d	1.0
LPG	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	n.d	0.1
CO₂ Emissions (Million tons CO₂)	52.7	48.2	44.2	45.0	45.2	45.2	38.7	41.6	44.9	n.d	-
CO₂ Intensity (tCO₂/million \$15ppp)	380.9	351.3	326.6	251.1	234.0	263.0	320.9	262.9	287.0	n.d	-
Final energy intensity (toe/million \$15ppp)	76.9	61.8	67.5	48.9	45.8	51.2	68.8	54.5	59.1	n.d	-
Total energy intensity (toe/million \$15ppp)	164.9	159.5	162.0	137.2	114.4	144.6	91.8	106.3	122.7	n.d	-

*Heat is included

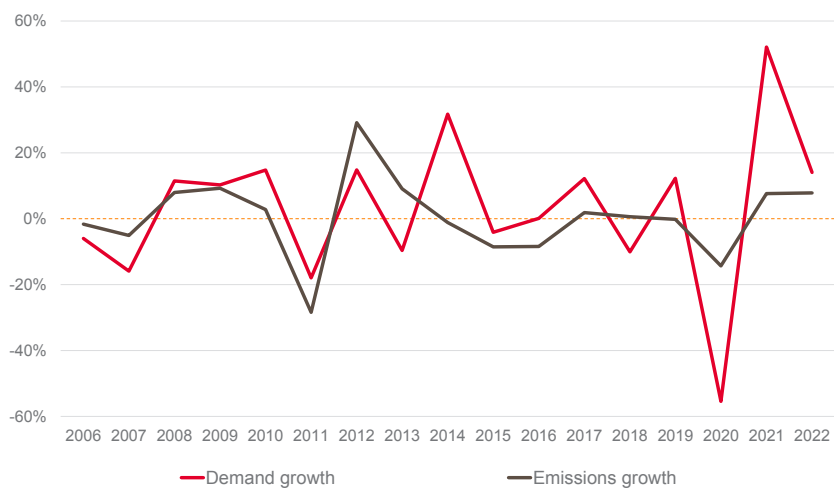
Primary energy demand mix



Electricity generation by source



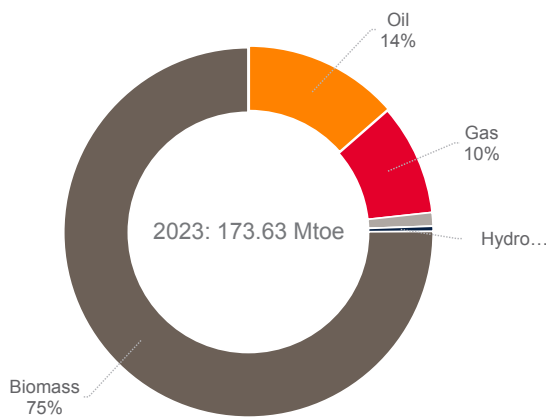
Primary energy demand and CO₂ emissions growth



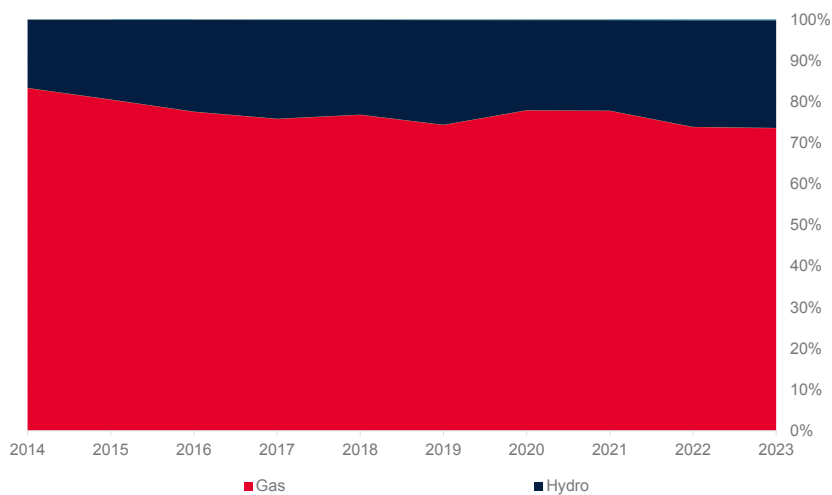
Nigeria (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	152.2	150.2	155.4	155.3	155.0	163.9	164.5	168.7	172.4	173.6	100.0
Oil	22.9	18.7	21.0	20.2	16.8	23.4	22.1	23.0	24.3	23.5	13.6
Gas	14.3	14.2	15.0	14.2	15.0	15.3	15.4	16.7	16.5	16.9	9.7
Coal	1.6	1.7	1.8	1.5	1.8	1.8	1.6	1.7	2.0	2.1	1.2
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	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.5
Biomass	113.0	115.0	116.9	118.8	120.7	122.7	124.7	126.7	128.8	130.4	75.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	0.0	-0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0
Total final consumption, by source	131.1	131.1	133.6	134.9	138.5	141.8	141.1	146.2	149.1	149.4	100.0
Oil	19.7	17.9	18.6	18.6	19.9	21.3	18.9	21.3	21.8	20.4	13.7
Gas	3.8	3.8	3.7	3.5	3.7	3.8	3.8	4.4	4.7	4.8	3.2
Coal	1.6	1.7	1.8	1.5	1.8	1.8	1.6	1.7	2.0	2.1	1.4
Electricity	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.3	2.4	1.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	103.9	105.7	107.3	109.1	110.9	112.7	114.5	116.4	118.2	119.7	80.1
Electricity generation, by source	2.8	2.9	3.1	2.8	2.9	2.8	3.0	3.1	2.9	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	2.3	2.3	2.4	2.1	2.2	2.1	2.3	2.4	2.2	2.2	73.6
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	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	26.2
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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	131.1	131.1	133.6	134.9	138.5	141.8	141.1	146.2	149.1	149.4	100.0
Industry	9.1	9.3	9.3	8.9	9.4	9.5	9.3	9.8	10.4	10.7	7.1
Transport	16.4	14.9	17.1	17.1	18.3	19.6	16.9	19.1	19.6	18.0	12.1
Residential/Commercial	103.9	105.4	105.6	107.4	109.3	111.3	113.6	115.6	117.2	118.8	79.5
Oil final consumption, by sector	19.7	17.9	18.6	18.6	19.9	21.3	18.9	21.3	21.8	20.4	100.0
Industry	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	2.4
Transport	16.4	14.9	17.1	17.1	18.3	19.6	16.9	19.1	19.6	18.0	88.4
Residential/Commercial	2.6	2.2	0.8	0.9	0.9	1.1	1.5	1.7	1.5	1.7	8.2
Natural gas final consumption, by sector	3.8	3.8	3.7	3.5	3.7	3.8	3.8	4.4	4.7	4.8	100.0
Industry	2.5	2.4	2.4	2.3	2.4	2.4	2.5	2.9	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	19.7	17.9	18.6	18.6	19.9	21.3	18.9	21.3	21.8	20.4	100.0
Gasoline	13.5	12.3	13.5	13.5	14.2	15.2	13.4	15.1	16.1	13.7	67.1
Diesel	2.9	2.5	3.5	3.5	4.0	4.4	3.4	4.0	3.5	4.3	21.1
Heating Oil	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	2.4
Aviation Jet	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.2
LPG	0.0	0.0	0.1	0.1	0.2	0.4	0.8	0.9	0.8	1.2	5.8
Imports	20.2	17.0	19.6	18.2	13.2	22.5	22.1	22.9	23.3	21.9	100.0
Oil	20.2	17.0	19.6	18.2	13.2	22.5	22.1	22.9	23.3	21.9	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	14.2	10.9	14.2	13.1	8.4	16.5	15.4	17.2	18.3	15.8	72.3
Diesel	3.3	3.8	3.9	3.7	3.5	4.3	4.9	3.9	3.4	4.3	19.5
Heating Oil	0.1	0.1	0.3	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Aviation Jet	0.4	0.4	0.6	0.7	0.9	0.8	0.4	0.5	0.4	0.4	1.8
LPG	0.0	0.0	0.0	0.0	0.1	0.0	0.6	0.5	0.4	0.6	2.7
Exports	129.5	129.8	110.0	114.5	117.8	123.4	99.9	83.4	73.2	76.9	100.0
Oil	109.1	108.3	90.6	91.8	95.5	101.0	77.3	64.8	57.2	62.2	81.0
Gas	20.4	21.5	19.4	22.7	22.3	22.4	22.5	18.6	16.0	14.6	19.0
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	0.1	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	94.6	89.1	92.3	88.9	94.4	98.3	91.3	100.8	103.5	100.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	98.8	90.6	95.5	91.2	95.0	96.8	91.5	97.5	96.9	91.6	-
Final energy intensity (toe/million \$15ppp)	135.3	131.8	136.5	137.0	137.9	138.3	140.1	139.8	138.0	134.3	-
Total energy intensity (toe/million \$15ppp)	159.0	152.8	160.7	159.3	156.0	161.4	164.9	163.2	161.5	158.2	-

*Heat is included

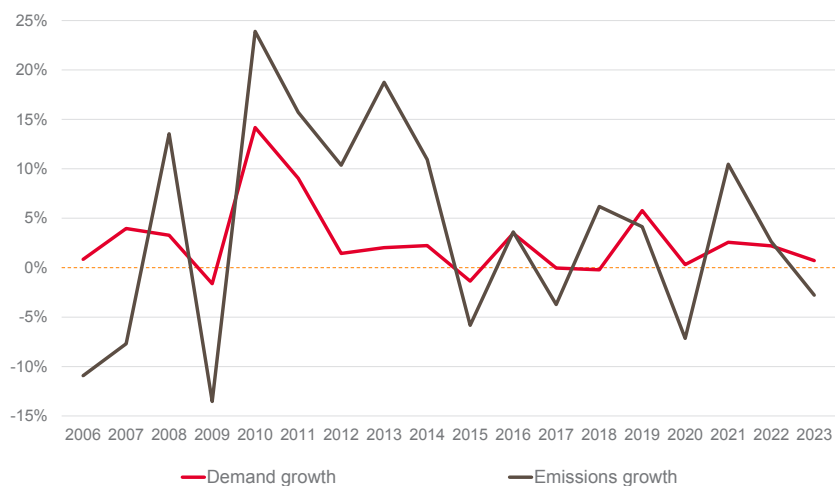
Primary energy demand mix



Electricity generation by source

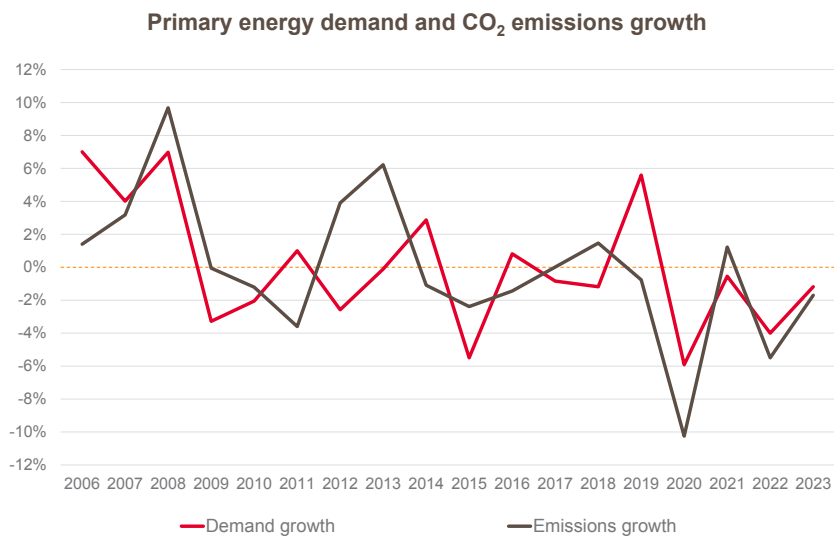
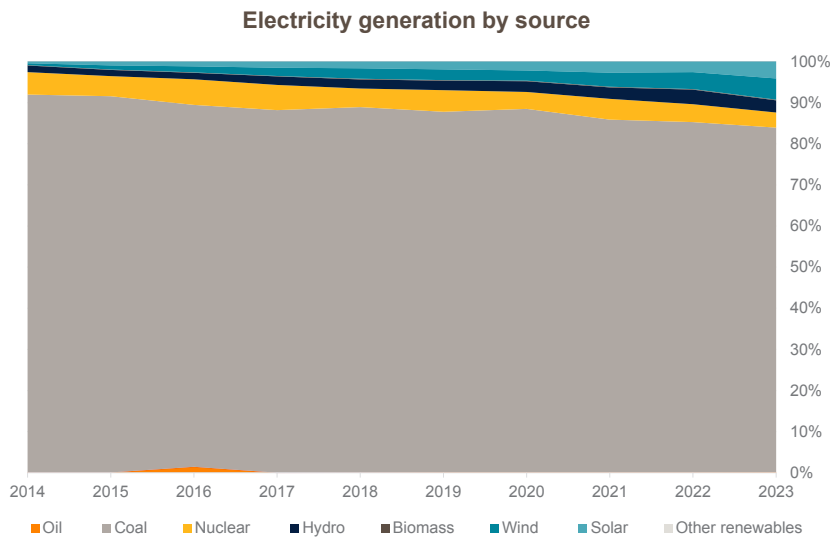
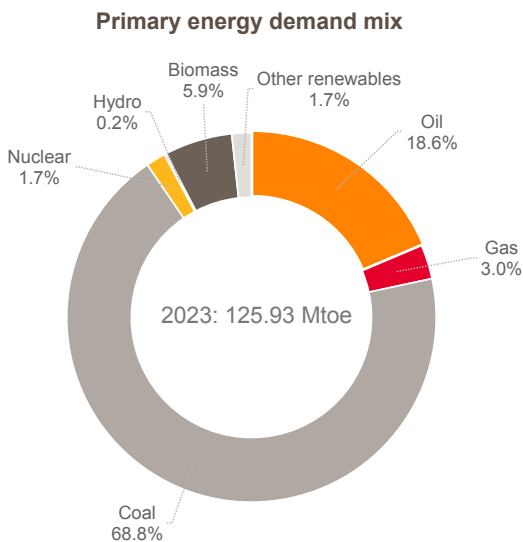


Primary energy demand and CO₂ emissions growth

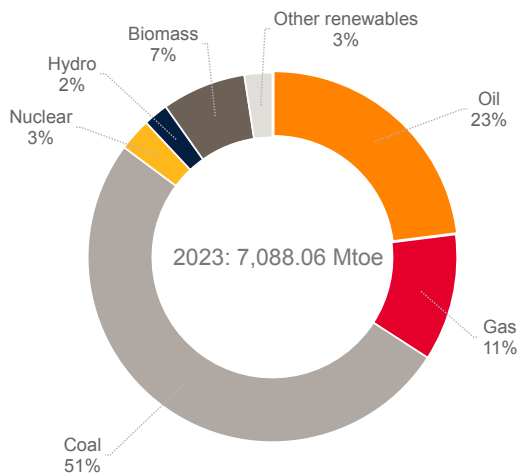


South Africa (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	143.9	136.0	137.1	135.9	134.3	141.9	133.5	132.7	127.4	125.9	100.0
Oil	22.7	20.7	20.3	22.5	25.3	21.6	18.6	22.6	23.0	23.5	18.6
Gas	4.0	4.4	3.4	3.2	4.0	4.0	4.2	3.7	3.6	3.8	3.0
Coal	106.1	100.2	102.1	98.2	94.3	104.8	99.5	94.5	89.0	86.6	68.8
Nuclear	3.6	3.2	4.1	4.1	3.0	3.5	2.6	3.2	2.7	2.2	1.7
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2
Biomass	7.4	7.0	6.9	7.4	7.0	7.1	7.4	7.2	7.3	7.5	5.9
Other renewables	0.2	0.5	0.7	0.9	1.1	1.3	1.2	1.6	1.6	2.1	1.7
Electricity balance of trade*	-0.1	0.0	-0.5	-0.5	-0.4	-0.4	-0.2	-0.2	-0.0	0.1	0.1
Total final consumption, by source	65.2	63.4	59.6	63.0	68.0	66.2	58.7	61.0	60.8	61.2	100.0
Oil	24.7	25.5	24.3	27.4	26.5	26.7	22.3	24.1	24.4	24.9	40.7
Gas	2.2	2.2	2.3	2.4	2.4	2.3	2.0	2.3	2.2	2.3	3.8
Coal	16.0	14.0	10.5	10.4	16.2	15.7	12.7	12.7	12.9	13.3	21.7
Electricity	16.8	16.7	17.5	17.4	17.7	16.1	16.3	16.6	16.0	15.2	24.8
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	5.4	5.0	4.9	5.3	5.2	5.3	5.3	5.2	5.3	5.4	8.9
Electricity generation, by source	21.7	21.5	21.9	22.2	22.0	21.7	20.6	21.0	20.2	19.3	100.0
Oil	0.0	0.0	0.3	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	20.0	19.6	19.3	19.5	19.6	19.0	18.2	18.0	17.2	16.2	83.8
Nuclear	1.2	1.1	1.4	1.4	1.0	1.1	0.9	1.1	0.9	0.7	3.7
Hydro	0.4	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.7	0.6	3.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Wind	0.1	0.2	0.3	0.4	0.6	0.6	0.5	0.7	0.8	1.0	5.2
Solar	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.6	0.5	0.8	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	65.2	63.4	59.6	63.0	68.0	66.2	58.7	61.0	60.8	61.2	100.0
Industry	25.1	23.8	23.3	21.9	23.2	22.6	22.5	22.9	22.7	22.7	37.1
Transport	17.4	18.1	17.8	17.8	18.6	18.8	15.0	16.3	16.5	16.8	27.5
Residential/Commercial	15.4	14.7	11.8	12.2	18.4	17.1	14.4	14.5	14.3	14.1	23.1
Oil final consumption, by sector	24.7	25.5	24.3	27.4	26.5	26.7	22.3	24.1	24.4	24.9	100.0
Industry	2.0	2.3	1.9	1.8	1.8	2.0	1.8	1.9	2.0	2.0	8.0
Transport	17.1	17.9	17.5	17.6	18.3	18.6	14.8	16.1	16.3	16.6	66.8
Residential/Commercial	0.6	0.7	0.8	0.7	0.8	0.7	0.6	0.5	0.5	0.6	2.2
Natural gas final consumption, by sector	2.2	2.2	2.3	2.4	2.4	2.3	2.0	2.3	2.2	2.3	100.0
Industry	2.2	2.2	2.2	2.3	2.3	2.3	2.0	2.2	2.2	2.3	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	24.7	25.5	24.3	27.4	26.5	26.7	22.3	24.1	24.4	24.9	100.0
Gasoline	8.5	8.9	9.8	9.6	9.1	7.9	6.4	6.8	6.7	6.6	26.4
Diesel	11.4	11.9	11.5	11.9	11.7	13.5	10.8	12.0	11.8	12.0	48.0
Heating Oil	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.5	2.1
Aviation Jet	0.5	0.6	0.6	0.7	0.6	0.8	0.5	0.6	0.8	1.0	4.1
LPG	0.3	0.3	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.7
Imports	32.6	33.0	29.8	31.6	38.5	34.7	28.2	27.7	30.8	32.2	100.0
Oil	29.5	29.7	27.0	29.0	35.3	31.7	25.0	24.0	27.3	28.4	88.4
Gas	3.1	3.3	2.8	2.7	3.1	3.0	3.3	3.6	3.5	3.7	11.6
Gasoline	0.9	1.5	1.1	1.6	1.7	1.1	1.3	3.1	4.2	3.5	10.8
Diesel	4.4	5.7	3.9	5.3	5.4	5.2	6.2	8.6	10.5	11.4	35.3
Heating Oil	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.5	0.9	0.9	2.7
Aviation Jet	0.2	0.2	0.1	0.4	0.3	0.4	0.5	0.4	0.7	0.6	1.8
LPG	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.5	1.6
Exports	3.3	4.5	3.4	3.7	4.6	4.2	2.8	2.1	2.1	2.3	100.0
Oil	3.3	4.5	3.4	3.7	4.6	4.2	2.8	2.1	2.1	2.3	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.8	0.8	0.9	0.8	1.0	0.9	0.9	0.8	0.7	0.8	33.8
Diesel	1.3	1.4	1.7	1.6	1.6	1.6	0.8	0.8	0.8	0.8	35.0
Heating Oil	0.8	1.1	0.0	0.4	0.9	0.7	0.0	0.0	0.0	0.0	0.5
Aviation Jet	0.1	0.8	0.3	0.3	0.4	0.3	0.5	0.1	0.3	0.4	16.7
LPG	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6.3
CO₂ Emissions (Million tons CO₂)	497.4	485.6	478.6	478.6	485.6	481.9	432.5	437.8	413.8	406.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	664.1	639.8	626.5	619.3	619.0	612.4	586.9	566.2	524.4	512.4	-
Final energy intensity (toe/million \$15ppp)	81.4	78.6	75.3	75.3	80.8	78.7	73.8	73.0	71.2	71.1	-
Total energy intensity (toe/million \$15ppp)	192.1	179.2	179.5	175.9	171.2	180.3	181.1	171.7	161.5	158.6	-

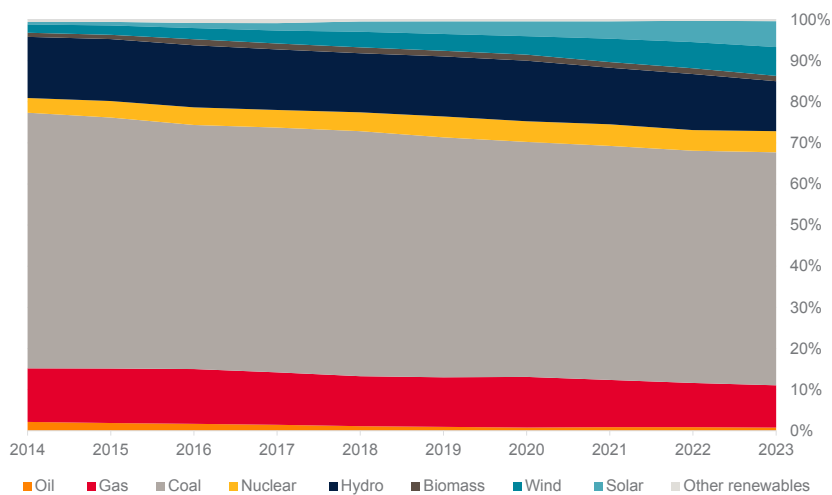
*Heat is included



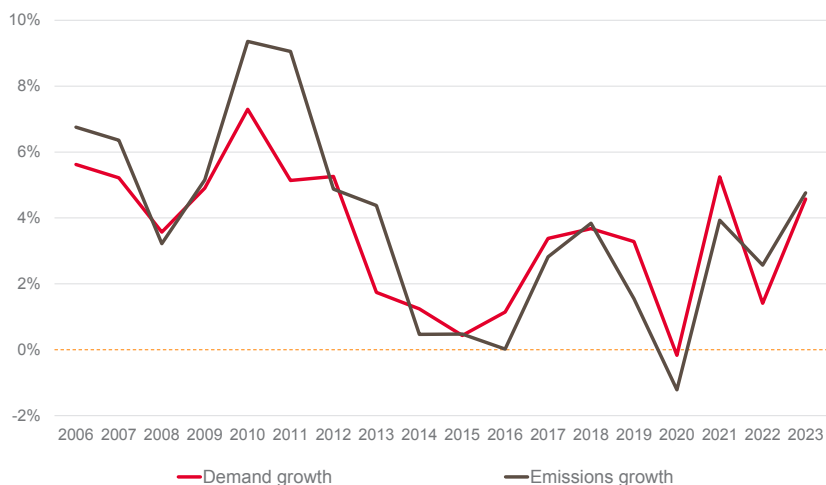
Primary energy demand mix



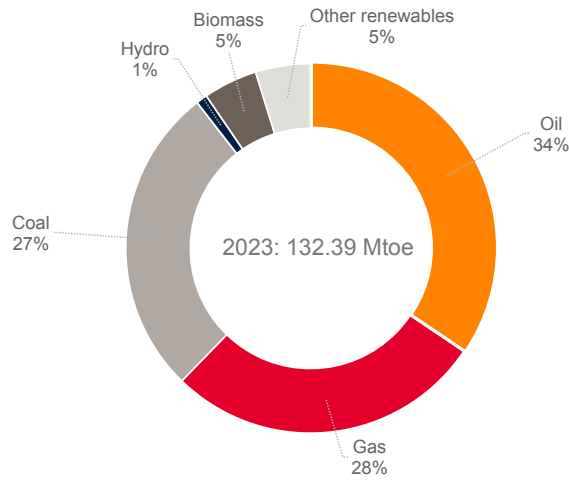
Electricity generation by source



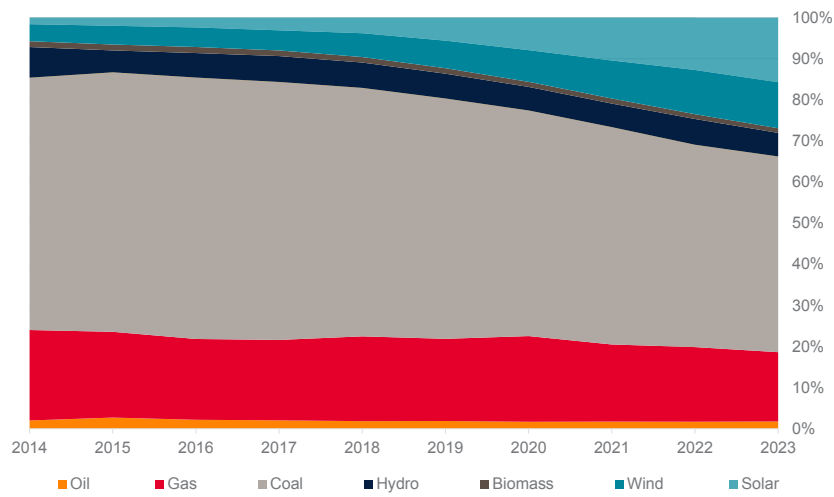
Primary energy demand and CO₂ emissions growth



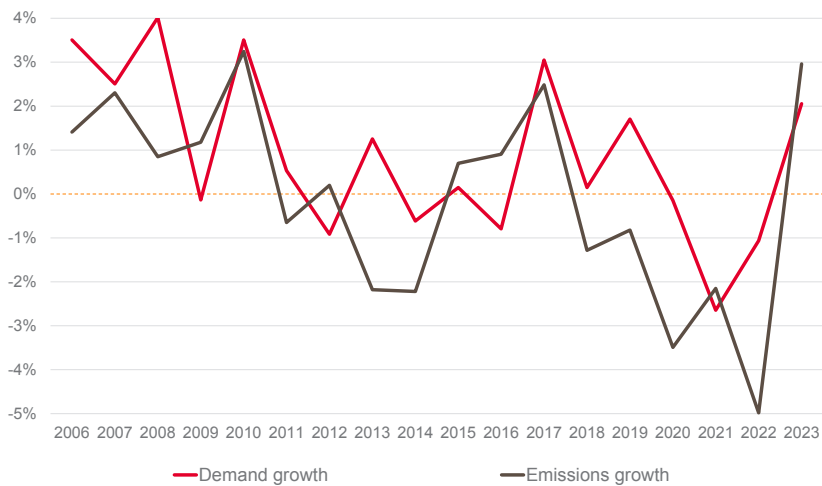
Primary energy demand mix



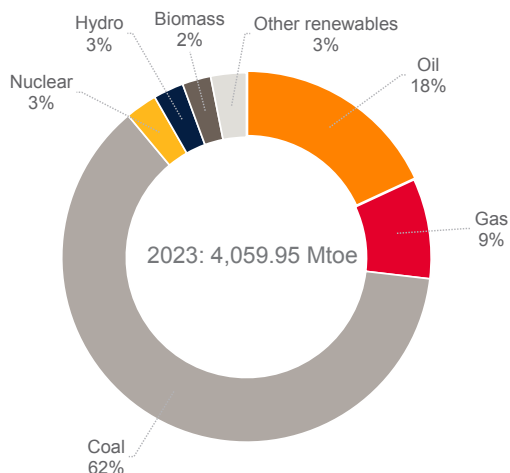
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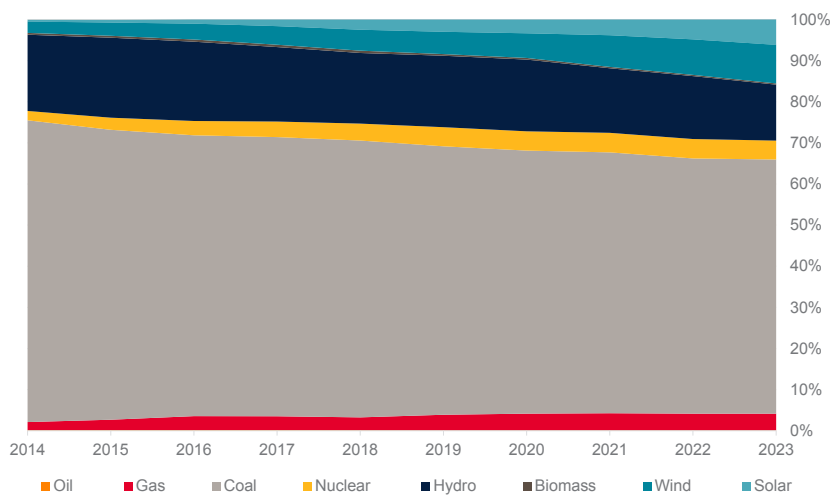
Primary energy demand and CO₂ emissions growth



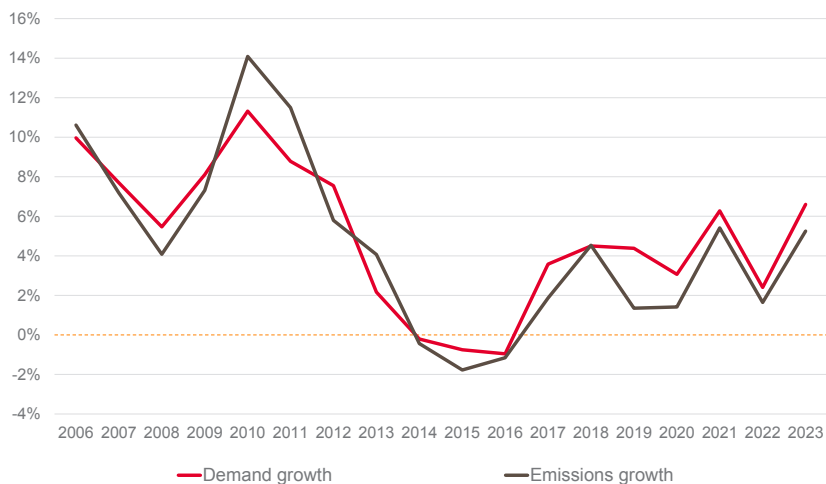
Primary energy demand mix



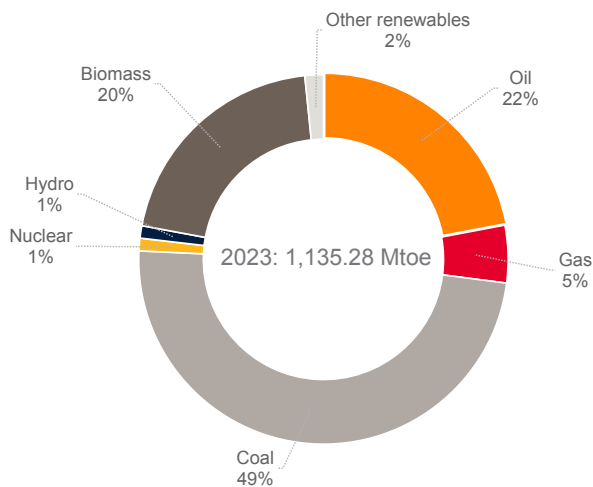
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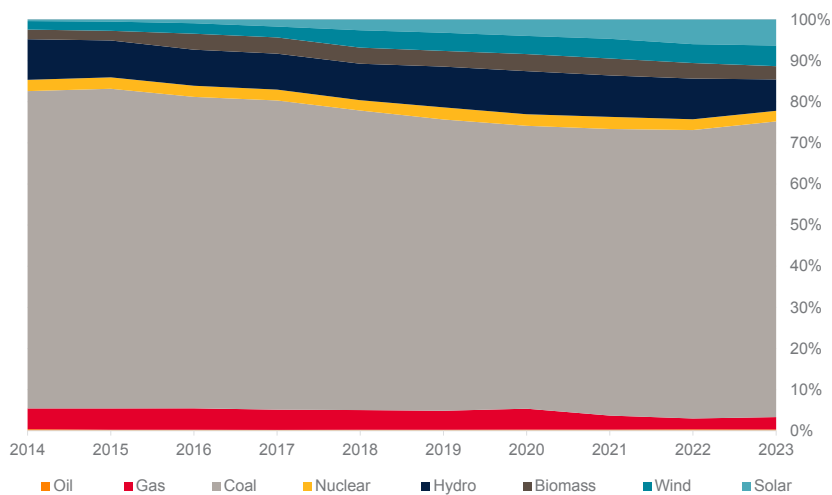
Primary energy demand and CO₂ emissions growth



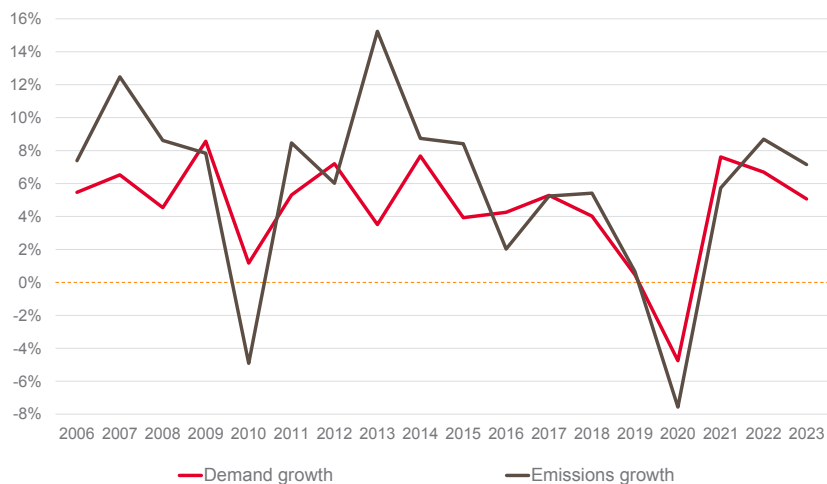
Primary energy demand mix



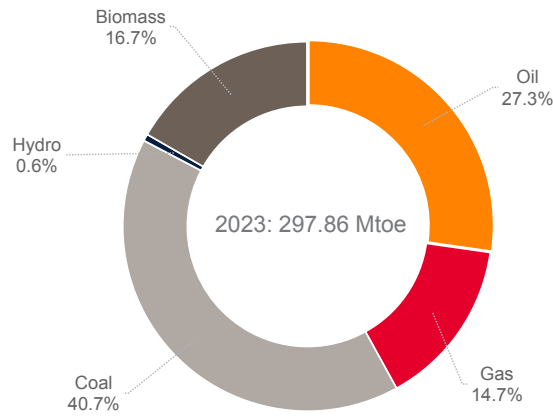
Electricity generation by source



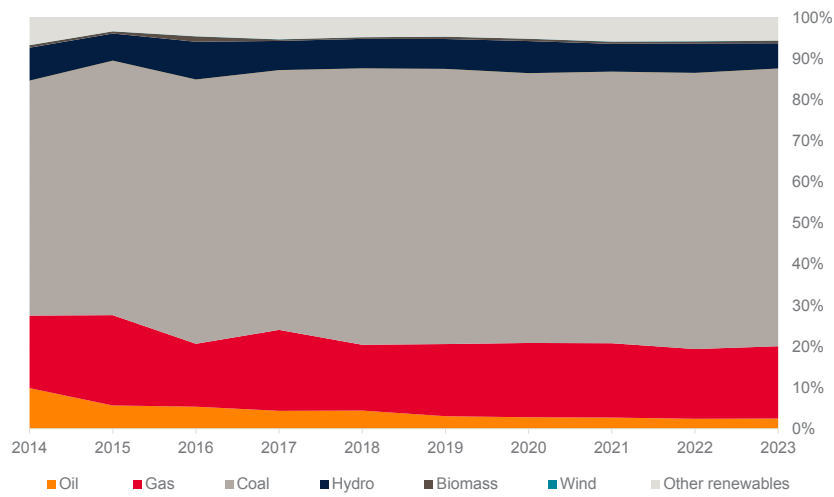
Primary energy demand and CO₂ emissions growth



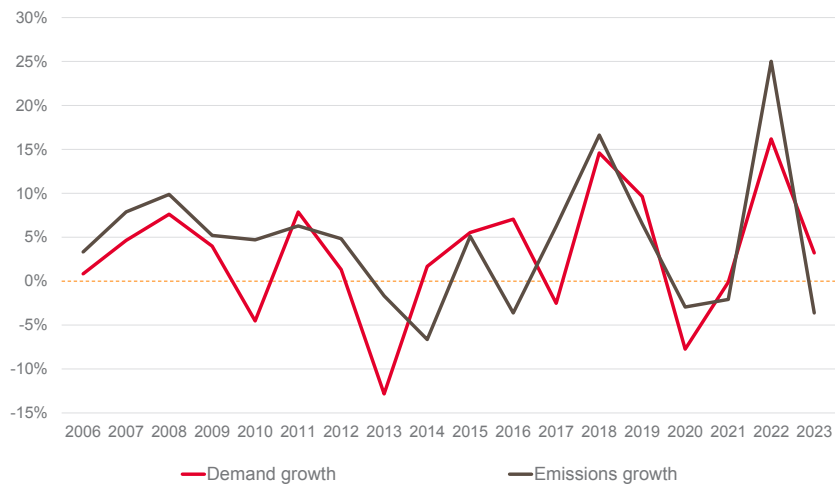
Primary energy demand mix



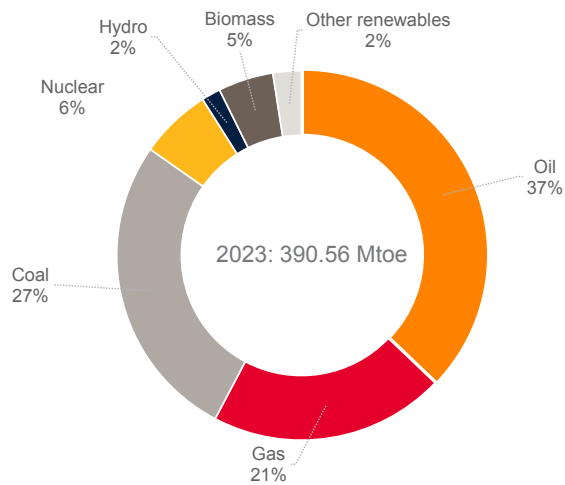
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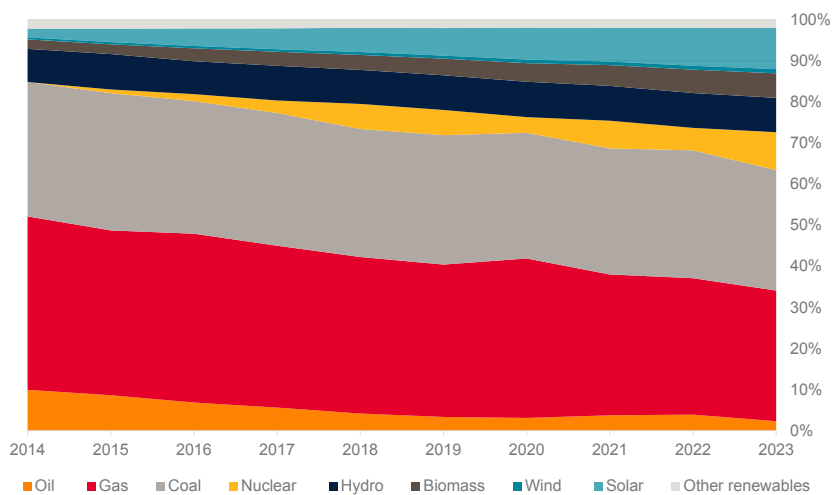
Primary energy demand and CO₂ emissions growth



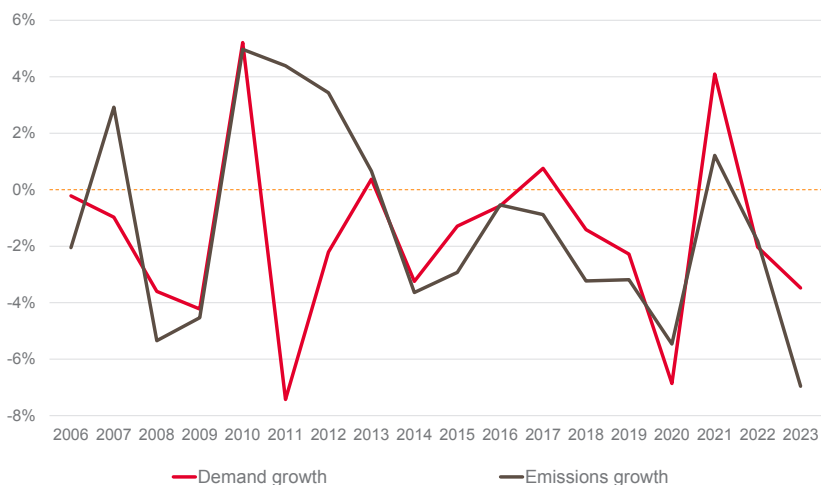
Primary energy demand mix



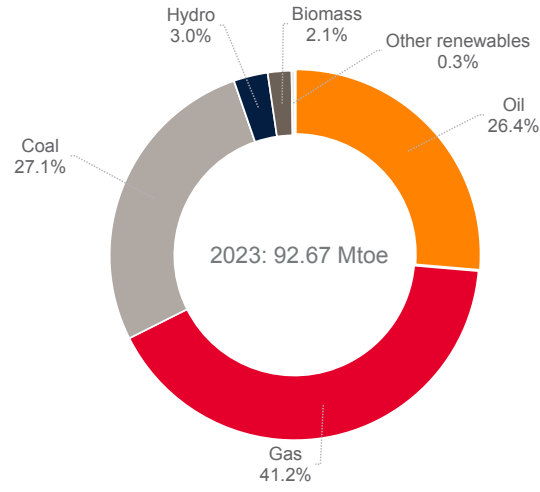
Electricity generation by source



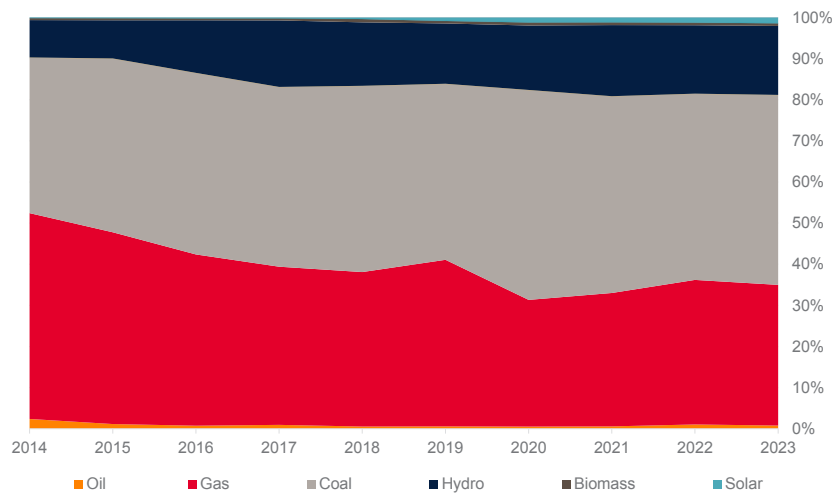
Primary energy demand and CO₂ emissions growth



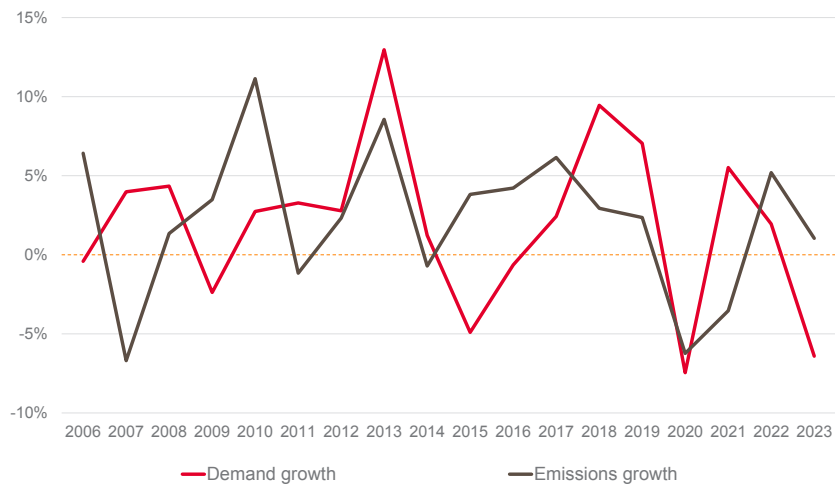
Primary energy demand mix



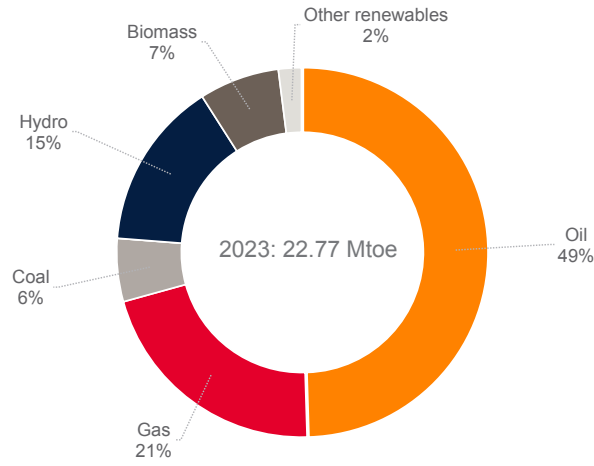
Electricity generation by source



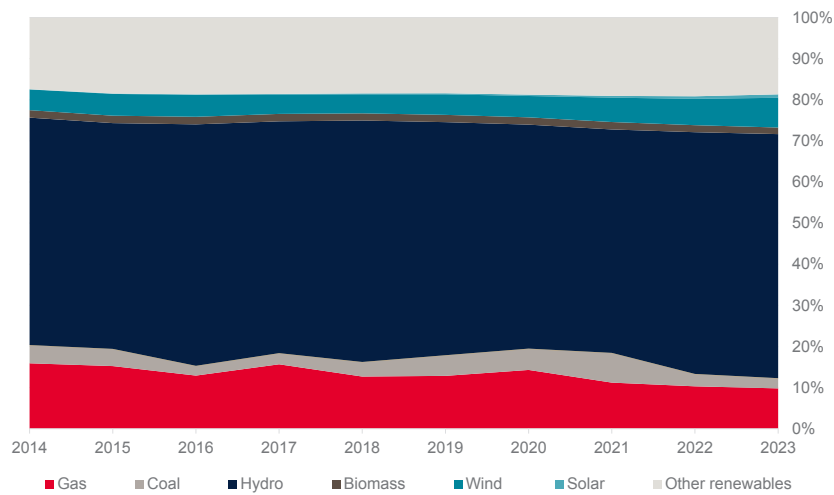
Primary energy demand and CO₂ emissions growth



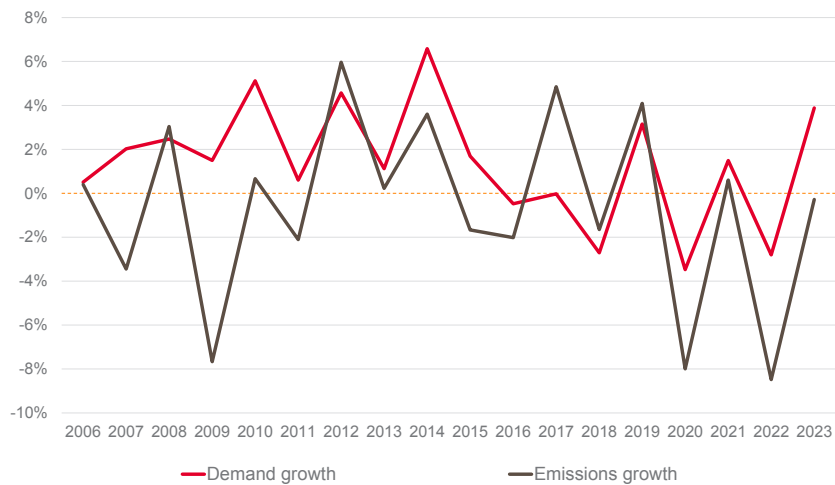
Primary energy demand mix



Electricity generation by source



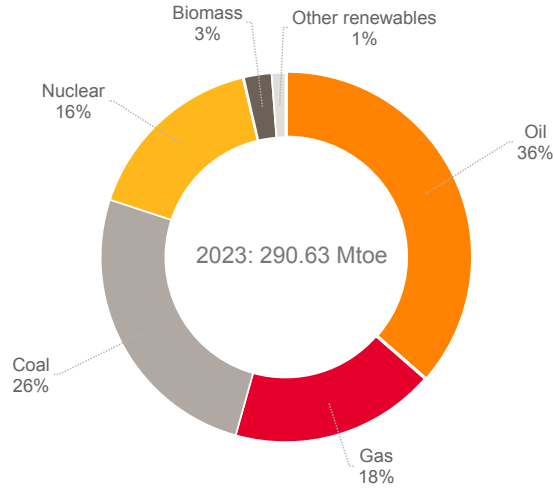
Primary energy demand and CO₂ emissions growth



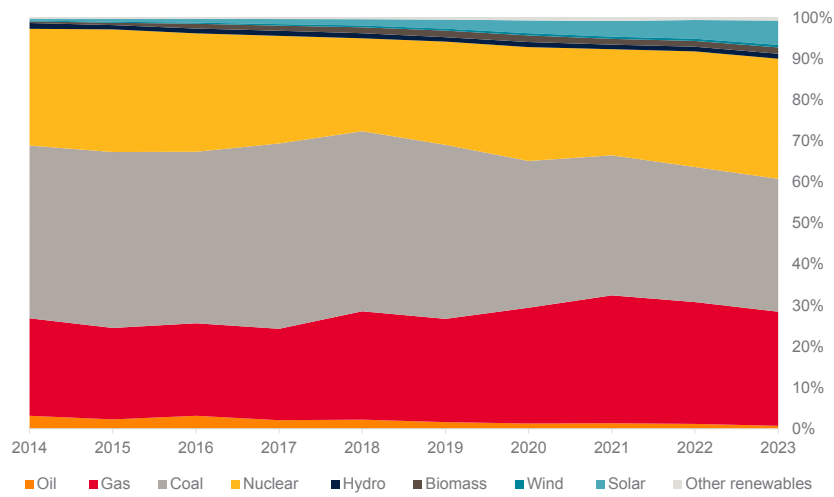
South Korea (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	269.4	274.3	283.9	287.4	287.2	285.8	280.3	296.4	299.0	290.6	100.0
Oil	96.4	102.8	109.9	111.1	112.4	106.3	102.9	113.2	111.8	105.6	36.3
Gas	43.2	39.4	41.4	43.3	47.7	49.0	49.6	54.6	54.2	52.0	17.9
Coal	82.5	82.3	82.9	85.8	83.6	83.8	76.7	77.8	77.0	74.6	25.7
Nuclear	40.8	42.9	42.2	38.7	34.8	38.0	41.7	41.2	45.9	47.0	16.2
Hydro	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.1
Biomass	5.7	5.9	6.4	7.2	7.0	6.6	6.5	6.3	6.5	7.0	2.4
Other renewables	0.3	0.5	0.6	0.8	1.0	1.3	1.8	2.3	2.7	3.5	1.2
Electricity balance of trade*	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.7	0.2
Total final consumption, by source	169.7	173.8	179.4	183.9	182.9	182.1	175.0	182.1	183.2	176.5	100.0
Oil	86.8	90.5	94.3	97.6	94.9	97.7	92.9	97.6	96.3	91.6	51.9
Gas	22.2	20.5	21.5	22.2	22.4	21.8	21.1	21.8	22.3	21.2	12.0
Coal	10.0	11.1	9.9	9.0	9.8	8.1	7.5	7.3	6.9	6.8	3.8
Electricity	41.9	42.6	44.5	45.0	45.7	45.0	44.1	46.1	47.4	47.4	26.8
Heat	4.7	4.5	5.0	5.3	5.8	5.8	5.7	5.8	6.8	6.0	3.4
Biomass	4.2	4.5	4.2	4.7	4.2	3.7	3.7	3.5	3.5	3.7	2.1
Electricity generation, by source	47.4	47.5	48.4	48.8	50.8	50.0	49.8	52.6	53.8	53.1	100.0
Oil	1.5	1.1	1.5	1.0	1.1	0.8	0.6	0.7	0.6	0.4	0.7
Gas	11.2	10.6	10.9	10.8	13.4	12.6	14.0	16.4	15.9	14.7	27.7
Coal	19.9	20.3	20.2	22.0	22.2	21.2	17.8	17.9	17.7	17.2	32.3
Nuclear	13.5	14.2	13.9	12.8	11.5	12.5	13.8	13.6	15.1	15.5	29.2
Hydro	0.7	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	1.2
Biomass	0.2	0.3	0.6	0.6	0.7	0.8	0.8	0.7	0.8	0.8	1.5
Wind	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6
Solar	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.4	3.2	5.9
Other renewables	0.1	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.4	0.7
Total final consumption, by sector	169.7	173.8	179.4	183.9	182.9	182.1	175.0	182.1	183.2	176.5	100.0
Industry	48.4	48.5	48.4	49.0	50.0	47.6	46.1	47.9	48.7	46.9	26.6
Transport	32.0	34.1	35.0	35.8	35.3	36.7	34.3	35.8	35.7	34.4	19.5
Residential/Commercial	39.6	40.3	42.6	42.9	43.1	41.5	41.4	41.8	43.1	42.3	24.0
Oil final consumption, by sector	86.8	90.5	94.3	97.6	94.9	97.7	92.9	97.6	96.3	91.6	100.0
Industry	3.4	3.3	3.5	3.5	3.6	3.6	4.1	4.3	4.3	4.0	4.4
Transport	30.3	32.3	33.2	33.9	33.3	34.7	32.4	33.9	33.7	32.4	35.4
Residential/Commercial	4.6	5.3	5.8	5.5	5.2	4.7	4.8	4.4	4.3	4.1	4.5
Natural gas final consumption, by sector	22.2	20.5	21.5	22.2	22.4	21.8	21.1	21.8	22.3	21.2	100.0
Industry	8.8	7.4	7.5	7.5	7.5	7.4	6.9	7.4	7.4	7.3	34.4
Transport	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	4.6
Residential/Commercial	12.2	11.9	12.8	13.5	13.7	13.2	13.1	13.4	13.9	12.9	61.0
Refined products consumption	86.8	90.5	94.3	97.6	94.9	97.7	92.9	97.6	96.3	91.6	100.0
Gasoline	9.1	9.4	9.7	9.8	9.8	10.2	10.0	10.5	10.9	11.2	12.2
Diesel	20.1	21.7	22.1	22.9	22.0	23.1	21.9	21.4	20.8	20.4	22.3
Heating Oil	1.5	1.7	1.8	1.6	1.4	1.2	1.0	0.9	0.9	1.0	1.1
Aviation Jet	1.5	1.7	1.7	1.8	1.8	1.5	1.4	2.1	2.1	1.1	1.2
LPG	8.0	8.4	9.1	8.9	9.4	10.5	10.3	9.9	10.5	9.8	10.7
Imports	212.1	218.4	229.1	236.0	245.1	237.6	224.5	234.7	242.6	236.3	100.0
Oil	168.1	179.5	189.5	192.4	195.5	189.4	176.4	180.0	187.3	183.7	77.8
Gas	44.0	38.9	39.6	43.6	49.6	48.2	48.1	54.7	55.3	52.6	22.2
Gasoline	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Diesel	0.8	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0
Heating Oil	7.5	6.8	6.8	5.7	6.3	4.6	4.3	5.3	3.0	4.5	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	5.9	5.8	8.0	7.0	7.2	8.7	9.2	8.8	9.7	9.0	3.8
Exports	58.8	62.6	64.1	66.6	70.5	69.1	61.5	58.6	65.2	65.0	100.0
Oil	58.8	62.6	64.1	66.6	70.5	69.1	61.5	58.6	65.2	65.0	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	9.0	9.8	9.4	10.1	10.8	10.8	9.1	12.1	12.3	12.6	19.3
Diesel	23.7	23.5	23.9	24.0	26.0	26.6	27.2	24.7	27.8	26.8	41.3
Heating Oil	1.9	1.5	1.9	2.4	3.9	2.5	1.9	1.2	1.8	0.9	1.3
Aviation Jet	12.6	14.4	15.0	16.1	15.5	15.4	10.8	8.5	11.1	11.9	18.3
LPG	0.1	0.1	0.2	0.2	0.5	0.5	0.5	0.3	0.1	0.1	0.1
CO₂ Emissions (Million tons CO₂)	624.8	641.5	658.0	666.9	668.8	655.1	609.2	624.5	593.3	569.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	332.2	331.8	330.6	324.8	316.5	303.2	284.0	279.5	258.9	245.0	-
Final energy intensity (toe/million \$15ppp)	65.6	65.3	65.0	63.9	62.4	59.9	58.4	57.7	57.1	54.7	-
Total energy intensity (toe/million \$15ppp)	143.3	141.9	142.6	140.0	135.9	132.3	130.7	132.7	130.5	125.1	-

*Heat is included

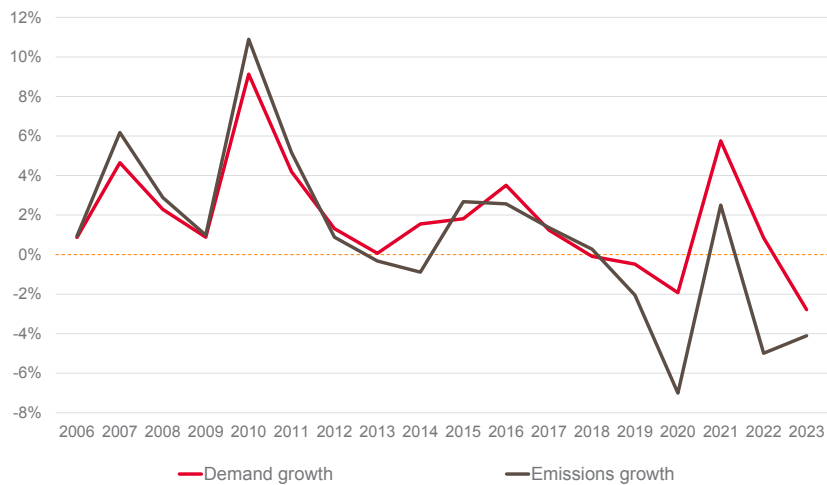
Primary energy demand mix



Electricity generation by source



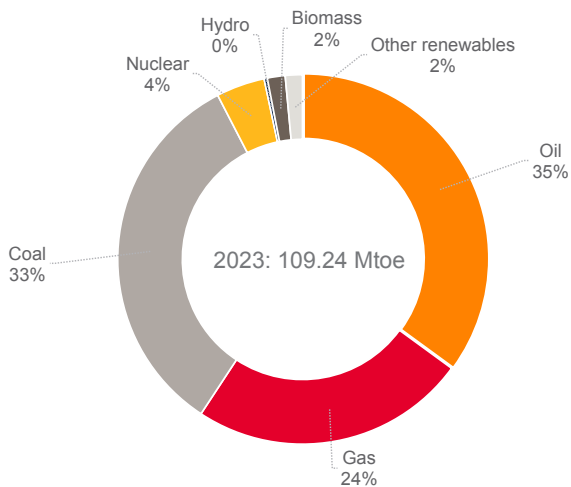
Primary energy demand and CO₂ emissions growth



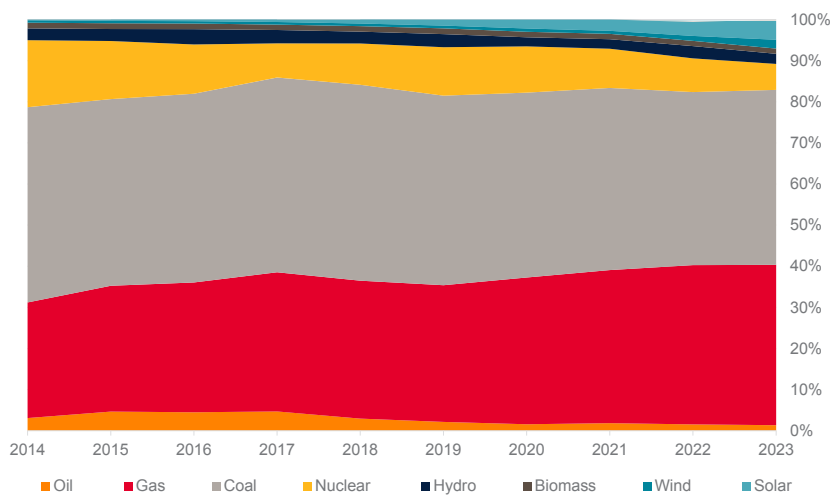
Taiwan (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	118.7	117.7	118.4	118.5	119.8	117.1	114.7	119.8	115.3	109.2	100.0
Oil	46.8	47.0	47.6	47.4	46.8	43.9	42.7	43.5	40.9	38.2	35.0
Gas	17.9	19.2	20.1	22.1	22.3	22.0	23.7	25.8	26.5	26.4	24.2
Coal	40.5	39.5	39.9	40.7	40.9	40.0	37.3	40.2	38.1	36.2	33.1
Nuclear	11.0	9.5	8.3	5.8	7.2	8.4	8.2	7.2	6.2	4.6	4.2
Hydro	0.3	0.4	0.5	0.4	0.4	0.4	0.2	0.3	0.4	0.3	0.3
Biomass	1.8	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6
Other renewables	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	1.5
Electricity balance of trade*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total final consumption, by source	74.3	74.6	75.1	74.7	75.9	73.4	74.1	77.7	73.1	69.2	100.0
Oil	41.7	42.0	41.9	41.3	41.9	39.5	39.8	41.4	37.6	34.7	50.2
Gas	3.3	3.5	3.7	4.0	4.3	4.4	4.6	5.1	5.3	5.3	7.7
Coal	7.2	7.2	7.3	6.9	5.8	5.8	5.6	5.9	5.1	4.5	6.5
Electricity	20.0	19.9	20.3	20.8	21.3	21.2	21.7	22.7	22.4	22.1	32.0
Heat	1.5	1.5	1.4	1.4	2.2	2.0	2.0	2.1	2.2	2.2	3.1
Biomass	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.3	0.5
Electricity generation, by source	22.4	22.2	22.7	23.2	23.7	23.6	24.1	25.0	24.8	24.3	100.0
Oil	0.7	1.0	1.0	1.1	0.7	0.5	0.4	0.5	0.4	0.3	1.4
Gas	6.3	6.8	7.2	7.9	7.9	7.8	8.6	9.3	9.7	9.5	39.0
Coal	10.6	10.1	10.4	11.0	11.3	10.9	10.8	11.1	10.5	10.3	42.6
Nuclear	3.6	3.1	2.7	1.9	2.4	2.8	2.7	2.4	2.0	1.5	6.3
Hydro	0.6	0.6	0.8	0.8	0.7	0.8	0.5	0.6	0.7	0.6	2.5
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	0.2	0.2	0.2	0.3	0.5	2.1
Solar	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.1	4.6
Other renewables	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.3
Total final consumption, by sector	74.3	74.6	75.1	74.7	75.9	73.4	74.1	77.7	73.1	69.2	100.0
Industry	25.1	24.5	24.8	24.8	25.5	25.0	25.1	26.9	25.7	24.6	35.6
Transport	13.4	13.8	14.1	14.0	13.6	13.7	13.9	13.1	13.5	13.5	19.5
Residential/Commercial	9.7	9.6	9.9	9.9	11.0	11.0	11.3	11.3	11.4	11.3	16.4
Oil final consumption, by sector	41.7	42.0	41.9	41.3	41.9	39.5	39.8	41.4	37.6	34.7	100.0
Industry	2.6	2.2	1.9	1.9	1.9	1.5	1.3	1.4	1.1	1.0	2.8
Transport	13.3	13.6	14.0	13.9	13.5	13.6	13.7	13.0	13.3	13.3	38.4
Residential/Commercial	1.8	1.8	1.8	1.7	1.6	1.6	1.7	1.6	1.6	1.5	4.4
Natural gas final consumption, by sector	3.3	3.5	3.7	4.0	4.3	4.4	4.6	5.1	5.3	5.3	100.0
Industry	2.2	2.3	2.5	2.8	3.1	3.2	3.3	3.8	4.0	4.0	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	23.2
Refined products consumption	41.7	42.0	41.9	41.3	41.9	39.5	39.8	41.4	37.6	34.7	100.0
Gasoline	8.5	8.8	9.1	9.0	8.7	8.7	8.9	8.2	8.4	8.5	24.4
Diesel	5.2	5.3	5.4	5.3	5.3	5.5	5.5	5.5	5.6	5.6	16.2
Heating Oil	2.7	2.2	2.0	1.9	1.6	1.3	1.0	1.0	0.8	0.6	1.7
Aviation Jet	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
LPG	3.0	2.7	3.3	2.6	3.1	3.2	2.6	1.8	1.9	2.0	5.9
Imports	88.9	88.8	90.8	92.5	93.5	91.4	84.3	88.0	89.1	85.3	100.0
Oil	71.2	69.8	71.1	70.5	71.1	69.3	60.7	62.0	62.4	58.7	68.8
Gas	17.7	18.9	19.7	22.0	22.4	22.1	23.7	26.0	26.7	26.6	31.2
Gasoline	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2
Diesel	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	1.9	1.1	1.8	2.6	2.3	1.3	0.6	0.9	0.9	0.6	0.6
Aviation Jet	0.0	0.2	0.2	0.1	0.2	0.0	0.1	0.0	0.1	0.1	0.1
LPG	2.1	1.7	2.1	1.5	2.1	2.1	1.8	0.6	0.9	1.3	1.5
Exports	19.4	18.8	19.2	18.8	20.2	21.3	14.0	15.5	18.1	16.0	100.0
Oil	19.4	18.8	19.2	18.8	20.2	21.3	14.0	15.5	18.1	16.0	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	4.7	4.8	5.3	4.9	4.6	4.1	2.0	3.6	3.8	3.5	21.6
Diesel	11.1	10.2	10.1	9.3	10.6	11.2	7.4	7.5	9.6	8.6	53.9
Heating Oil	0.8	1.0	1.4	1.6	2.0	1.9	1.7	2.0	1.7	1.2	7.5
Aviation Jet	1.2	1.2	1.1	1.0	1.1	1.1	0.9	0.4	1.1	0.8	4.8
LPG	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	281.6	283.5	288.0	296.9	291.3	280.0	278.8	290.1	286.1	279.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	539.2	538.5	539.3	540.5	515.8	481.1	463.3	452.6	436.0	423.0	-
Final energy intensity (toe/million \$15ppp)	96.9	95.8	96.1	93.2	91.0	87.5	85.4	82.2	79.1	76.9	-
Total energy intensity (toe/million \$15ppp)	227.2	223.5	221.7	215.7	212.1	201.2	190.6	186.8	175.7	165.1	-

*Heat is included

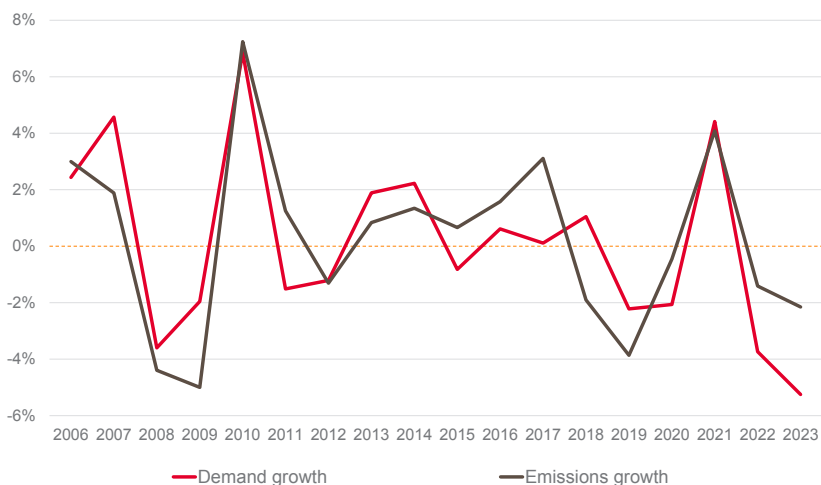
Primary energy demand mix



Electricity generation by source



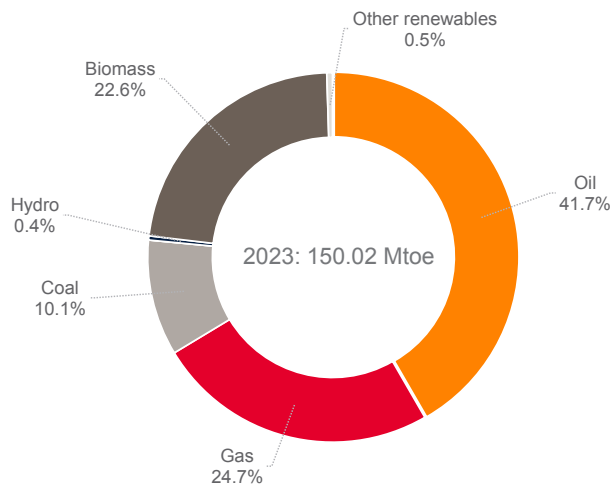
Primary energy demand and CO₂ emissions growth



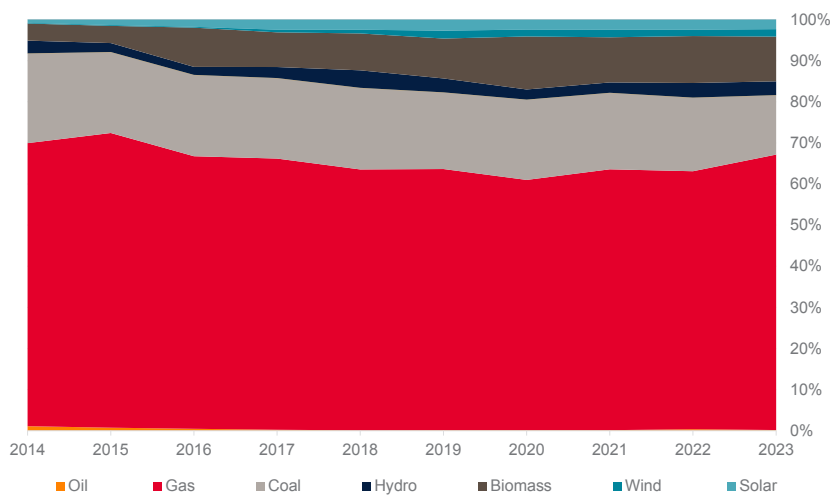
Thailand (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	142.8	142.8	146.3	142.7	144.1	147.7	141.8	144.7	147.1	150.0	100.0
Oil	54.4	54.6	56.2	56.5	55.0	55.3	54.0	60.7	61.2	61.4	40.9
Gas	37.8	37.8	36.9	36.0	35.5	36.6	38.2	38.0	33.3	36.4	24.3
Coal	17.9	18.8	17.4	18.4	17.7	18.2	17.2	15.4	17.4	15.0	10.0
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	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.5	0.5	0.4
Biomass	31.2	30.1	33.6	28.9	32.5	34.3	29.0	26.8	31.2	33.4	22.2
Other renewables	0.1	0.2	0.3	0.5	0.5	0.8	0.7	0.7	0.7	0.7	0.5
Electricity balance of trade*	0.9	1.1	1.6	2.0	2.2	2.0	2.3	2.7	2.8	2.6	1.8
Total final consumption, by source	101.6	103.9	100.1	101.3	103.5	105.8	101.4	103.9	108.0	106.5	100.0
Oil	50.8	52.2	53.7	54.1	55.2	55.5	53.6	59.5	58.4	58.2	54.6
Gas	7.4	7.2	7.2	7.0	7.3	7.1	6.8	7.8	9.1	8.9	8.3
Coal	6.5	8.4	6.3	7.8	7.2	8.2	8.4	6.7	8.8	7.6	7.1
Electricity	14.5	15.0	15.9	15.9	16.2	16.6	16.9	17.1	17.7	18.4	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	22.3	21.2	17.0	16.4	17.7	18.4	15.6	12.8	13.8	13.4	12.6
Electricity generation, by source	14.8	15.2	16.2	15.6	15.7	16.4	16.2	16.1	16.5	17.4	100.0
Oil	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Gas	10.2	10.9	10.7	10.3	9.9	10.4	9.9	10.2	10.3	11.7	67.0
Coal	3.2	3.0	3.2	3.1	3.1	3.1	3.2	3.0	3.0	2.5	14.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.6	0.6	3.3
Biomass	0.6	0.6	1.5	1.3	1.4	1.6	2.1	1.8	1.9	1.9	10.9
Wind	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.3	1.8
Solar	0.1	0.2	0.3	0.4	0.4	0.4	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	101.6	103.9	100.1	101.3	103.5	105.8	101.4	103.9	108.0	106.5	100.0
Industry	30.0	31.6	33.5	32.8	32.6	34.7	31.3	29.1	32.7	30.7	28.8
Transport	22.2	23.6	24.9	27.1	27.5	28.2	29.3	27.2	29.4	31.1	29.3
Residential/Commercial	22.2	21.9	15.4	15.5	15.7	16.0	16.8	16.0	16.5	17.2	16.1
Oil final consumption, by sector	50.8	52.2	53.7	54.1	55.2	55.5	53.6	59.5	58.4	58.2	100.0
Industry	6.0	5.7	6.4	5.0	4.0	4.6	4.0	3.9	3.7	3.7	6.4
Transport	18.2	19.6	21.1	23.3	23.7	24.4	25.7	24.1	26.5	28.0	48.2
Residential/Commercial	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.4	2.4	4.1
Natural gas final consumption, by sector	7.4	7.2	7.2	7.0	7.3	7.1	6.8	7.8	9.1	8.9	100.0
Industry	2.5	3.0	3.3	3.3	3.5	3.5	3.3	4.6	4.8	4.6	51.6
Transport	2.6	2.5	2.3	2.0	1.8	1.6	1.1	0.9	1.0	0.9	10.5
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	51.6	53.1	53.5	54.6	54.9	52.9	53.5	52.8	52.6	100.0
Gasoline	6.4	7.2	7.9	8.2	8.5	8.8	8.7	7.9	8.2	8.5	16.3
Diesel	17.4	18.1	18.7	19.1	18.6	19.9	20.6	19.8	20.9	21.7	41.2
Heating Oil	0.9	0.5	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	1.2
Aviation Jet	0.6	0.9	0.8	0.8	0.8	0.7	0.5	0.1	0.6	1.2	2.2
LPG	8.2	7.2	6.6	6.8	7.2	7.2	4.5	6.8	7.1	7.2	13.7
Imports	58.0	63.1	63.2	66.5	69.5	66.3	64.8	66.3	68.7	72.5	100.0
Oil	49.2	51.1	51.6	54.1	56.8	53.8	52.3	53.1	56.0	56.7	78.2
Gas	8.9	12.0	11.6	12.4	12.6	12.5	12.5	13.2	12.8	15.8	21.8
Gasoline	0.7	0.6	1.2	1.4	1.2	1.7	1.8	1.3	1.0	0.8	1.1
Diesel	0.3	0.1	0.7	0.7	0.5	2.1	0.0	0.1	0.5	0.1	0.2
Heating Oil	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0
LPG	2.3	1.5	0.5	0.7	0.8	0.6	0.6	0.6	1.8	1.9	2.6
Exports	12.4	13.9	12.7	13.9	14.8	11.6	12.2	12.1	9.9	11.3	100.0
Oil	12.4	13.9	12.7	13.9	14.8	11.6	12.2	12.1	9.9	11.3	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.0	1.2	1.1	1.2	1.3	0.9	1.3	1.5	1.5	1.5	13.0
Diesel	3.8	5.4	4.2	4.6	4.8	3.3	5.0	5.5	2.9	4.4	38.5
Heating Oil	3.5	3.3	2.9	3.2	3.1	2.9	2.5	2.8	2.8	2.6	23.0
Aviation Jet	1.0	1.2	0.4	0.6	0.8	0.7	0.6	0.3	0.7	0.7	6.5
LPG	0.0	0.0	0.1	0.3	0.4	0.3	0.3	0.2	0.2	0.2	1.6
CO₂ Emissions (Million tons CO₂)	272.4	280.8	277.6	278.6	278.4	287.4	280.0	281.3	290.7	290.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	258.4	258.3	246.8	237.8	228.0	230.5	239.0	236.6	238.4	233.8	-
Final energy intensity (toe/million \$15ppp)	74.9	75.1	68.9	67.2	64.9	66.2	68.1	62.7	66.2	65.3	-
Total energy intensity (toe/million \$15ppp)	135.5	131.4	130.1	121.8	118.0	118.5	121.1	121.7	120.7	120.8	-

*Heat is included

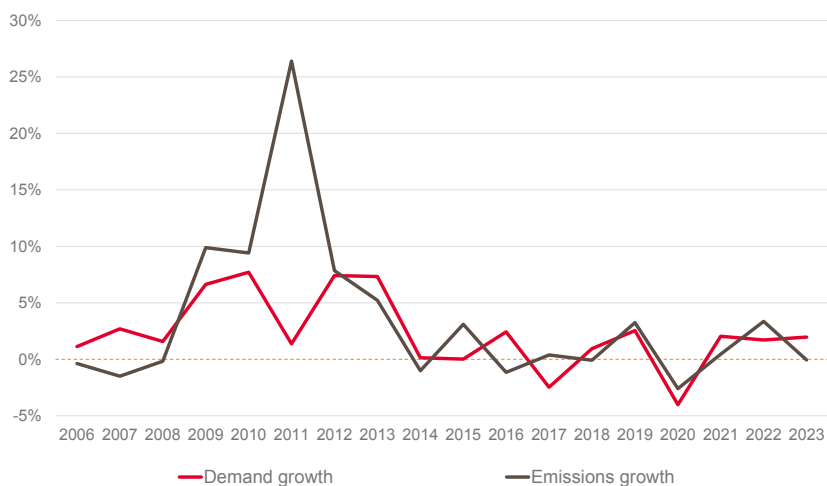
Primary energy demand mix



Electricity generation by source



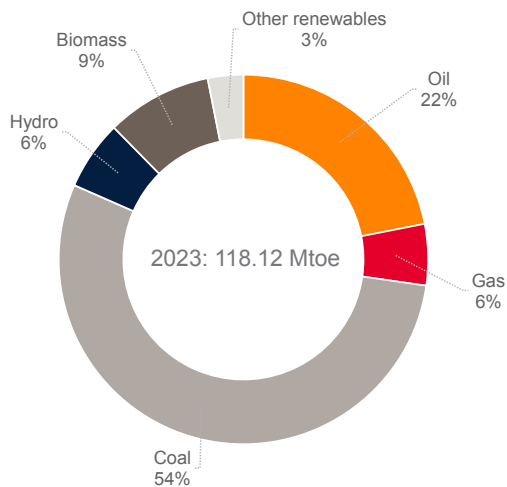
Primary energy demand and CO₂ emissions growth



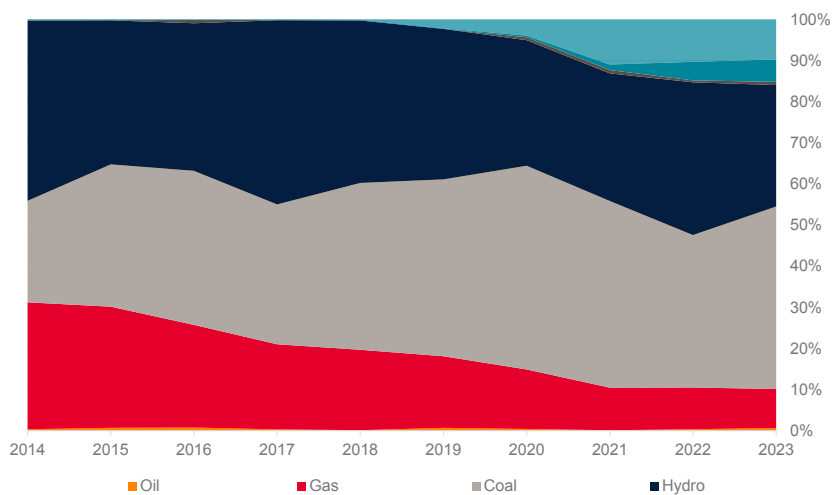
Vietnam (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	73.2	75.3	82.0	81.8	89.4	112.8	115.9	103.8	107.3	118.1	100.0
Oil	17.6	21.6	21.8	20.3	23.4	24.9	24.2	23.6	25.8	25.9	21.9
Gas	8.6	8.9	8.9	7.8	8.1	8.3	7.4	6.3	6.8	6.3	5.4
Coal	24.2	30.4	33.2	33.6	37.9	59.5	67.1	53.5	51.4	64.1	54.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.3	4.9	5.6	7.6	7.2	7.3	6.3	6.8	8.8	7.1	6.0
Biomass	17.4	9.3	12.4	12.3	12.6	12.2	10.0	10.9	10.9	10.9	9.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.5	0.9	2.7	3.5	3.7	3.1
Electricity balance of trade*	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total final consumption, by source	54.8	51.4	55.4	56.6	64.5	75.0	76.4	65.2	71.1	76.0	100.0
Oil	15.6	19.0	20.7	20.4	22.2	22.5	21.3	19.5	23.1	22.6	29.7
Gas	1.5	1.5	1.6	1.0	1.1	1.2	1.4	1.7	1.9	2.0	2.6
Coal	10.3	10.2	8.3	9.3	13.9	23.2	26.9	16.1	17.4	22.4	29.6
Electricity	11.1	12.4	13.7	15.0	16.6	17.8	18.6	19.2	20.7	21.5	28.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	16.4	8.3	11.1	10.9	10.8	10.4	8.2	8.7	7.9	7.4	9.8
Electricity generation, by source	12.1	14.1	15.6	17.1	18.3	20.0	20.7	21.8	23.7	24.2	100.0
Oil	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.2	0.7
Gas	3.7	4.1	3.9	3.5	3.6	3.5	3.0	2.3	2.4	2.3	9.5
Coal	3.0	4.9	5.9	5.8	7.4	8.6	10.2	9.9	8.8	10.8	44.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.3	4.9	5.6	7.6	7.2	7.3	6.3	6.8	8.8	7.1	29.5
Biomass	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.8
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.1	1.3	5.4
Solar	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.4	2.4	2.4	9.7
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	54.8	51.4	55.4	56.6	64.5	75.0	76.4	65.2	71.1	76.0	100.0
Industry	22.3	20.6	19.7	20.7	26.5	36.5	40.6	31.4	33.4	38.7	50.9
Transport	10.2	11.9	12.2	13.1	13.9	14.5	12.9	11.1	13.9	12.8	16.9
Residential/Commercial	19.6	13.8	16.9	17.1	17.3	18.1	17.2	16.3	17.1	18.7	24.6
Oil final consumption, by sector	15.6	19.0	20.7	20.4	22.2	22.5	21.3	19.5	23.1	22.6	100.0
Industry	1.7	1.8	2.0	1.6	1.6	1.6	2.2	1.6	2.0	2.2	9.6
Transport	10.2	11.9	12.2	13.1	13.7	14.3	12.8	11.1	13.9	12.8	56.7
Residential/Commercial	1.7	1.8	1.7	1.9	2.0	2.2	2.2	2.4	2.8	4.1	18.2
Natural gas final consumption, by sector	1.5	1.5	1.6	1.0	1.1	1.2	1.4	1.7	1.9	2.0	100.0
Industry	1.5	0.9	1.0	0.4	0.4	0.5	0.8	0.8	0.9	1.0	48.1
Transport	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	15.6	19.0	20.7	20.4	22.2	22.5	21.3	19.5	23.1	22.6	100.0
Gasoline	5.1	6.3	6.4	6.8	7.0	7.6	6.5	6.1	8.1	7.4	32.7
Diesel	6.7	7.9	8.9	9.4	9.8	10.1	8.7	7.8	8.4	7.8	34.4
Heating Oil	0.4	0.3	0.4	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.6
Aviation Jet	0.2	0.6	0.8	0.8	0.9	0.9	0.8	0.5	1.0	1.0	4.3
LPG	1.6	2.0	1.9	2.2	2.4	2.5	2.6	2.8	3.2	4.7	20.9
Imports	12.2	14.2	16.9	18.3	21.2	20.9	23.3	20.5	23.0	23.7	100.0
Oil	12.2	14.2	16.9	18.3	21.2	20.9	23.3	20.5	23.0	23.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	2.5	2.8	2.6	3.3	2.2	2.1	1.6	0.9	2.0	2.0	8.3
Diesel	4.2	5.3	6.8	7.4	6.5	5.1	4.9	5.0	4.9	4.7	19.9
Heating Oil	0.6	0.7	0.8	0.6	0.7	0.8	0.6	0.7	0.7	0.6	2.7
Aviation Jet	1.3	1.5	1.6	2.3	2.7	2.2	1.3	0.7	1.4	1.3	5.6
LPG	1.3	2.0	2.1	2.4	2.0	2.0	2.0	2.2	2.3	2.9	12.1
Exports	10.7	10.9	8.8	8.9	6.3	6.2	7.1	5.6	4.9	5.6	100.0
Oil	10.7	10.9	8.8	8.9	6.3	6.2	7.1	5.6	4.9	5.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.3	0.2	0.3	0.2	0.2	0.3	0.5	0.4	0.5	9.5
Diesel	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.7	0.6	0.8	13.6
Heating Oil	0.2	0.1	0.2	0.3	0.4	0.3	0.4	0.5	0.4	0.5	9.8
Aviation Jet	0.5	0.4	0.5	0.6	0.7	0.8	0.6	0.5	0.4	0.5	9.7
LPG	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	6.7
CO₂ Emissions (Million tons CO₂)	147.4	173.5	177.5	171.6	203.5	310.6	317.3	256.8	259.0	301.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	225.2	247.8	237.6	214.8	237.0	337.0	334.6	264.1	246.5	273.5	-
Final energy intensity (toe/million \$15ppp)	81.4	70.0	70.3	68.8	72.1	79.4	78.6	64.1	64.9	66.9	-
Total energy intensity (toe/million \$15ppp)	111.9	107.5	109.8	102.4	104.1	122.3	122.3	106.8	102.2	107.1	-

*Heat is included

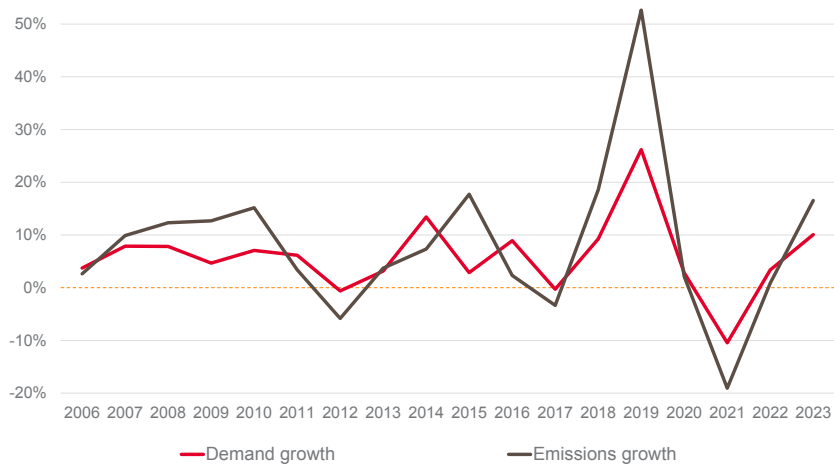
Primary energy demand mix



Electricity generation by source



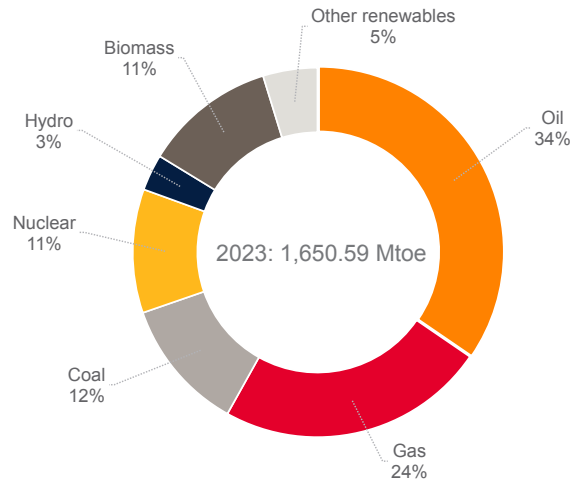
Primary energy demand and CO₂ emissions growth



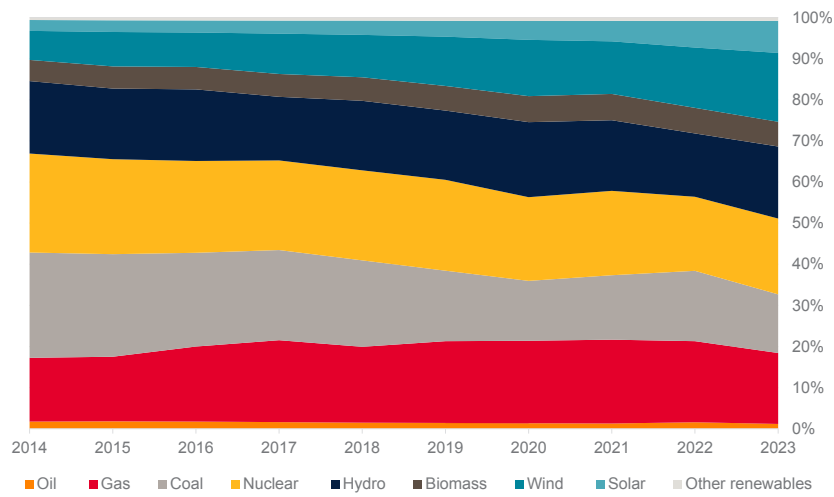
Europe (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	1,792.2	1,816.1	1,838.5	1,872.0	1,857.6	1,831.2	1,715.0	1,811.4	1,716.8	1,650.6	100.0
Oil	583.4	588.1	604.4	619.4	603.3	603.5	545.9	570.6	568.8	558.5	33.8
Gas	393.9	408.5	431.9	453.3	443.9	448.7	438.9	465.9	406.6	380.8	23.1
Coal	319.0	317.6	297.6	291.3	285.7	244.3	209.2	230.4	230.7	187.6	11.4
Nuclear	235.6	229.4	224.3	221.5	222.2	221.0	197.5	207.7	177.5	175.2	10.6
Hydro	53.9	53.5	54.7	48.8	53.8	52.9	55.5	54.6	46.8	51.4	3.1
Biomass	155.1	160.6	164.0	168.6	174.6	178.4	179.5	191.8	187.1	186.3	11.3
Other renewables	32.1	37.6	38.3	44.5	46.9	53.1	59.3	60.1	69.3	76.9	4.7
Electricity balance of trade*	19.2	20.7	23.3	24.6	27.2	29.2	29.1	30.4	30.0	34.0	2.1
Total final consumption, by source	1,272.4	1,298.4	1,327.3	1,352.2	1,346.9	1,336.1	1,270.1	1,342.8	1,279.6	1,252.5	100.0
Oil	524.5	531.8	544.3	556.1	549.7	546.3	499.9	522.3	520.1	512.0	40.9
Gas	259.6	268.5	277.5	284.0	283.1	281.7	276.2	301.0	263.2	253.5	20.2
Coal	69.9	70.6	71.0	71.3	67.3	62.8	60.4	64.0	57.1	48.7	3.9
Electricity	271.3	276.0	280.1	283.6	284.7	281.8	272.6	285.4	276.3	268.6	21.4
Heat	53.9	55.3	57.2	57.7	57.0	56.9	55.0	58.5	53.1	55.9	4.5
Biomass	93.2	96.1	97.3	99.4	105.1	106.6	106.0	111.7	109.8	113.9	9.1
Electricity generation, by source	322.7	327.9	331.1	335.3	335.1	330.1	320.6	334.0	325.1	313.5	100.0
Oil	5.6	5.9	5.7	5.4	4.9	4.7	4.3	4.2	5.1	3.7	1.2
Gas	50.0	51.5	60.4	66.8	61.8	65.6	64.3	68.1	64.1	54.1	17.3
Coal	82.6	81.8	75.4	73.5	70.5	56.6	46.7	52.4	55.6	44.7	14.3
Nuclear	77.7	75.7	74.0	73.1	73.3	72.9	65.2	68.5	58.6	57.8	18.4
Hydro	56.9	56.4	57.6	51.9	56.7	55.6	58.5	57.4	50.1	54.9	17.5
Biomass	16.6	17.7	18.1	18.6	19.1	19.8	20.3	21.3	20.3	18.8	6.0
Wind	22.8	27.3	27.7	32.9	34.6	39.6	43.9	42.7	47.6	52.5	16.7
Solar	8.5	9.4	9.8	10.7	11.6	12.7	14.7	16.6	21.1	24.4	7.8
Other renewables	1.9	2.2	2.3	2.5	2.5	2.6	2.7	2.7	2.7	2.6	0.8
Total final consumption, by sector	1,272.4	1,298.4	1,327.3	1,352.2	1,346.9	1,336.1	1,270.1	1,342.8	1,279.6	1,252.5	100.0
Industry	317.5	319.2	321.8	331.9	332.9	326.9	315.7	337.4	313.4	300.0	24.0
Transport	352.4	358.5	371.9	379.6	384.3	384.8	336.6	365.5	375.7	379.6	30.3
Residential/Commercial	458.3	478.6	488.8	490.9	484.6	479.7	472.4	494.8	461.5	450.6	36.0
Oil final consumption, by sector	524.5	531.8	544.3	556.1	549.7	546.3	499.9	522.3	520.1	512.0	100.0
Industry	29.0	30.1	27.5	30.4	31.9	30.0	30.1	29.9	31.3	29.0	5.7
Transport	330.4	336.6	349.8	355.9	358.7	357.9	310.2	337.6	347.1	349.3	68.2
Residential/Commercial	52.8	54.2	54.1	53.5	47.5	47.6	47.5	43.1	41.1	39.1	7.6
Natural gas final consumption, by sector	259.6	268.5	277.5	284.0	283.1	281.7	276.2	301.0	263.2	253.5	100.0
Industry	92.8	91.0	93.0	97.4	95.7	94.9	91.9	103.0	89.3	85.3	33.6
Transport	1.7	1.8	1.8	1.8	1.8	2.1	2.0	2.3	2.0	2.0	0.8
Residential/Commercial	145.1	156.7	163.5	164.3	165.4	164.0	162.0	175.6	156.0	150.8	59.5
Refined products consumption	521.7	529.6	542.0	553.9	547.9	544.8	498.3	520.8	518.6	509.3	100.0
Gasoline	87.7	86.0	86.5	86.8	89.1	90.6	78.1	85.5	90.5	95.8	18.8
Diesel	294.8	302.3	312.9	319.2	316.7	313.6	285.9	300.3	300.2	299.3	58.8
Heating Oil	8.0	8.2	7.0	6.8	6.4	5.8	4.9	4.6	4.9	5.6	1.1
Aviation Jet	9.1	9.5	10.0	10.0	10.3	10.3	5.4	7.2	9.5	14.2	2.8
LPG	34.9	36.0	36.1	36.5	37.4	37.8	34.4	34.4	33.8	33.1	6.5
Imports	1,321.8	1,389.5	1,420.3	1,453.8	1,433.6	1,462.0	1,293.1	1,351.5	1,431.6	1,353.5	100.0
Oil	977.4	1,034.8	1,048.1	1,069.2	1,049.2	1,046.2	911.8	943.5	997.7	980.8	72.5
Gas	344.4	354.7	372.3	384.6	384.4	415.8	381.3	408.0	433.9	372.7	27.5
Gasoline	28.7	31.3	32.3	32.0	28.8	30.2	26.8	28.7	28.6	29.8	2.2
Diesel	145.4	156.2	168.0	167.0	160.4	159.6	146.9	149.1	151.7	152.9	11.3
Heating Oil	67.9	70.6	68.4	52.0	51.3	46.7	49.3	56.4	57.1	56.0	4.1
Aviation Jet	33.8	34.9	37.5	38.8	41.6	42.4	25.5	25.9	36.8	51.5	3.8
LPG	25.6	27.6	28.3	27.8	29.0	28.5	26.2	27.2	29.3	30.6	2.3
Exports	619.3	664.8	671.7	664.3	643.2	625.7	588.8	613.5	650.4	631.0	100.0
Oil	460.8	504.2	514.1	521.5	507.4	488.9	460.1	484.8	476.4	477.0	75.6
Gas	158.5	160.6	157.6	142.8	135.8	136.8	128.8	128.7	174.0	153.9	24.4
Gasoline	80.5	92.9	93.7	96.7	94.7	95.2	79.9	88.3	89.2	91.1	14.4
Diesel	102.2	109.9	115.4	118.3	106.1	105.2	101.4	107.7	103.0	98.5	15.6
Heating Oil	75.4	84.7	80.2	63.0	58.4	50.1	52.9	61.7	59.4	57.2	9.1
Aviation Jet	15.4	15.3	16.4	17.7	19.7	20.5	14.3	14.2	16.5	19.7	3.1
LPG	8.0	9.7	10.1	10.2	9.6	9.5	8.5	9.6	10.2	10.3	1.6
CO₂ Emissions (Million tons CO₂)	3,811.0	3,861.9	3,882.0	3,939.7	3,861.0	3,687.3	3,379.8	3,608.6	3,522.4	3,273.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	170.9	168.7	166.0	163.0	156.2	146.5	142.0	142.6	134.1	123.4	-
Final energy intensity (toe/million \$15ppp)	52.2	52.0	52.0	51.3	50.2	48.9	48.9	48.9	45.3	44.0	-
Total energy intensity (toe/million \$15ppp)	80.4	79.3	78.6	77.5	75.2	72.8	72.1	71.6	65.3	62.2	-

*Heat is included

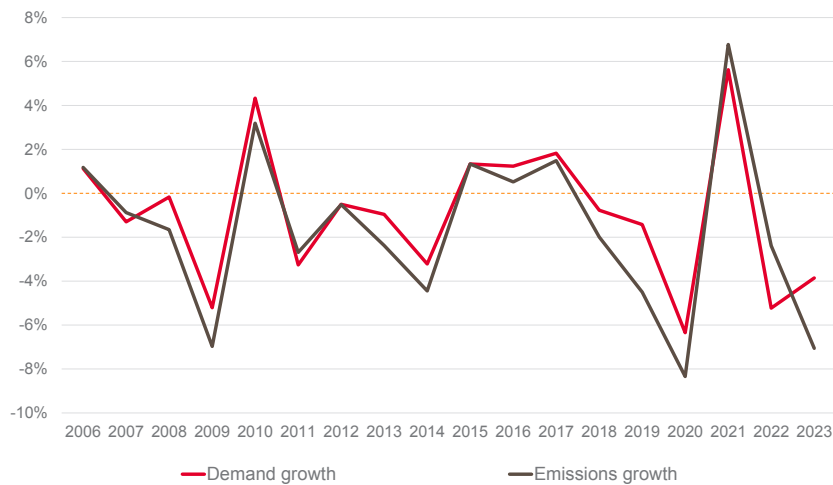
Primary energy demand mix



Electricity generation by source



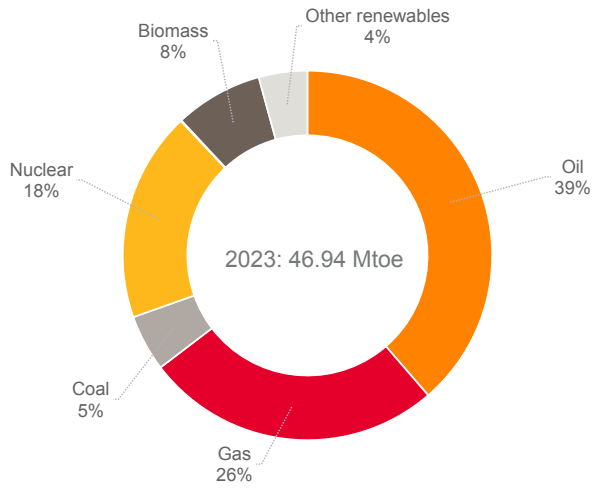
Primary energy demand and CO₂ emissions growth



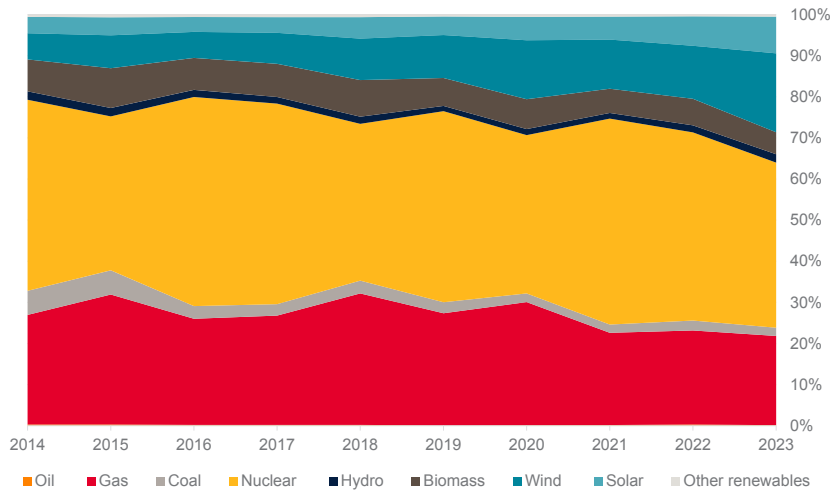
Belgium (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	52.7	52.6	55.6	55.3	53.3	54.9	50.6	55.9	50.9	46.9	100.0
Oil	22.0	22.0	21.5	21.2	21.2	20.3	18.5	19.8	18.6	18.0	38.4
Gas	12.6	13.9	14.2	14.5	15.0	15.2	15.1	15.2	12.9	12.1	25.8
Coal	3.5	3.4	3.2	3.1	3.1	3.0	2.4	2.6	2.7	2.3	4.9
Nuclear	8.8	6.8	11.3	11.0	7.5	11.3	9.0	13.1	11.4	8.6	18.3
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Biomass	3.4	3.6	3.8	3.8	3.8	3.7	3.8	4.0	4.0	3.6	7.6
Other renewables	0.6	0.7	0.7	0.8	1.0	1.2	1.5	1.5	1.7	2.0	4.2
Electricity balance of trade*	1.8	2.0	0.8	0.8	1.8	0.1	0.2	-0.4	-0.4	0.3	0.6
Total final consumption, by source	40.8	41.9	42.3	41.7	42.2	41.0	38.9	41.6	37.9	36.9	100.0
Oil	20.2	20.6	20.2	19.5	19.9	18.9	17.5	18.7	17.5	17.1	46.5
Gas	9.2	9.9	10.2	10.5	10.5	10.4	10.2	11.1	9.1	9.0	24.3
Coal	2.2	2.1	2.3	2.3	2.3	2.3	1.8	2.0	2.0	1.8	4.8
Electricity	7.0	7.0	7.1	7.1	7.1	7.0	6.8	7.0	6.6	6.2	16.7
Heat	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	1.1
Biomass	1.8	1.8	2.0	2.0	2.0	2.0	2.1	2.4	2.3	2.4	6.6
Electricity generation, by source	6.2	6.0	7.4	7.4	6.5	8.1	7.7	8.6	8.3	7.1	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	1.7	1.9	1.9	2.0	2.1	2.2	2.3	1.9	1.9	1.5	21.7
Coal	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	2.0
Nuclear	2.9	2.2	3.7	3.6	2.5	3.7	3.0	4.3	3.8	2.8	40.1
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.0
Biomass	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.4	5.3
Wind	0.4	0.5	0.5	0.6	0.7	0.8	1.1	1.0	1.1	1.4	19.2
Solar	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	8.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Total final consumption, by sector	40.8	41.9	42.3	41.7	42.2	41.0	38.9	41.6	37.9	36.9	100.0
Industry	10.6	10.6	10.7	10.8	11.1	10.9	10.1	10.8	10.1	9.7	26.3
Transport	8.6	9.0	9.0	8.9	8.9	8.9	7.8	8.6	8.7	8.8	23.9
Residential/Commercial	11.7	12.8	12.8	12.7	12.6	12.3	12.1	12.9	11.0	10.6	28.8
Oil final consumption, by sector	20.2	20.6	20.2	19.5	19.9	18.9	17.5	18.7	17.5	17.1	100.0
Industry	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.7
Transport	8.0	8.6	8.5	8.3	8.3	8.2	6.9	7.6	7.7	7.8	45.4
Residential/Commercial	3.0	3.6	3.3	3.3	3.2	3.0	3.2	3.0	2.7	2.5	14.7
Natural gas final consumption, by sector	9.2	9.9	10.2	10.5	10.5	10.4	10.2	11.1	9.1	9.0	100.0
Industry	3.7	3.7	3.8	4.0	4.0	3.9	3.9	4.1	3.5	3.5	39.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.7
Residential/Commercial	4.5	4.9	5.2	5.1	5.1	5.1	4.8	5.6	4.4	4.3	48.3
Refined products consumption	20.2	20.6	20.2	19.5	19.9	18.9	17.5	18.7	17.5	17.1	100.0
Gasoline	1.3	1.4	1.5	1.5	1.7	1.9	1.5	1.9	2.1	2.3	13.5
Diesel	10.1	11.0	10.5	10.3	10.1	9.6	8.8	8.9	8.4	8.2	47.6
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LPG	2.0	2.0	1.7	1.7	2.5	2.6	2.5	2.6	2.6	2.9	16.9
Imports	72.3	75.2	73.7	78.1	81.4	82.4	71.7	76.1	76.4	74.9	100.0
Oil	58.8	59.9	58.8	63.5	65.2	63.1	53.8	58.5	56.2	57.1	76.2
Gas	13.5	15.3	14.9	14.6	16.2	19.2	17.9	17.6	20.2	17.8	23.8
Gasoline	0.9	1.3	1.5	0.9	1.6	1.3	0.7	0.9	1.0	1.3	1.8
Diesel	10.0	10.9	11.3	10.8	10.0	8.3	8.4	7.0	7.9	7.7	10.3
Heating Oil	3.5	3.7	3.9	4.8	5.9	5.5	4.2	5.5	4.8	3.8	5.1
Aviation Jet	1.0	0.8	0.5	1.5	1.7	1.5	1.0	1.1	0.9	1.2	1.6
LPG	2.0	2.1	1.8	1.8	2.3	2.3	2.4	2.5	2.9	3.0	4.0
Exports	30.5	30.9	30.2	34.3	33.9	36.2	30.0	33.2	35.2	35.9	100.0
Oil	29.8	29.5	29.6	34.1	32.8	32.5	27.1	30.8	28.0	30.3	84.4
Gas	0.7	1.4	0.6	0.3	1.1	3.7	2.9	2.4	7.2	5.6	15.6
Gasoline	4.4	5.4	5.4	4.9	4.5	5.0	3.4	3.8	4.5	6.3	17.6
Diesel	12.0	11.0	11.9	12.5	11.8	11.2	9.4	11.3	10.1	11.2	31.1
Heating Oil	4.3	4.5	4.0	6.0	5.5	4.1	3.2	3.0	2.4	1.8	5.1
Aviation Jet	1.4	0.9	0.8	1.8	1.6	2.2	1.1	0.6	0.7	1.1	3.1
LPG	0.7	0.8	0.9	0.9	0.7	0.8	0.9	1.0	1.0	0.9	2.5
CO₂ Emissions (Million tons CO₂)	92.2	97.0	95.7	95.0	95.8	95.2	87.2	91.0	84.7	82.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	180.6	186.1	181.4	177.3	175.6	170.6	165.2	162.1	146.2	139.4	-
Final energy intensity (toe/million \$15ppp)	61.9	63.4	63.4	62.0	61.3	59.2	58.5	59.0	52.8	50.9	-
Total energy intensity (toe/million \$15ppp)	103.2	100.9	105.4	103.2	97.7	98.4	95.8	99.5	87.9	79.8	-

*Heat is included

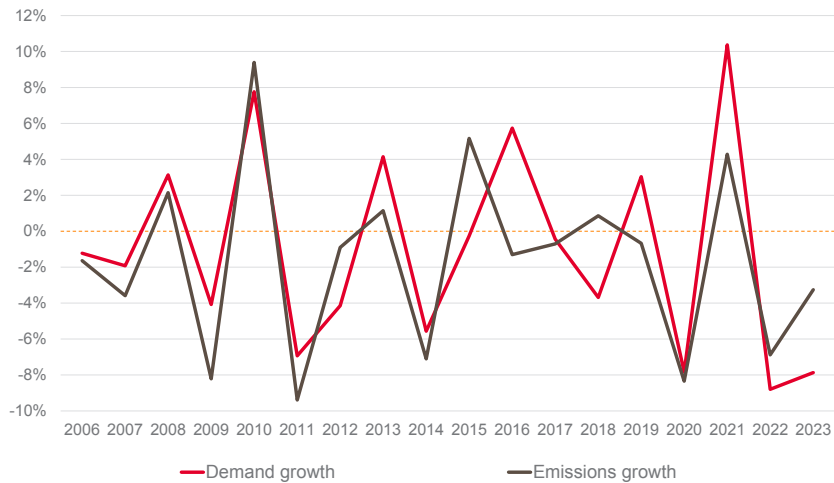
Primary energy demand mix



Electricity generation by source



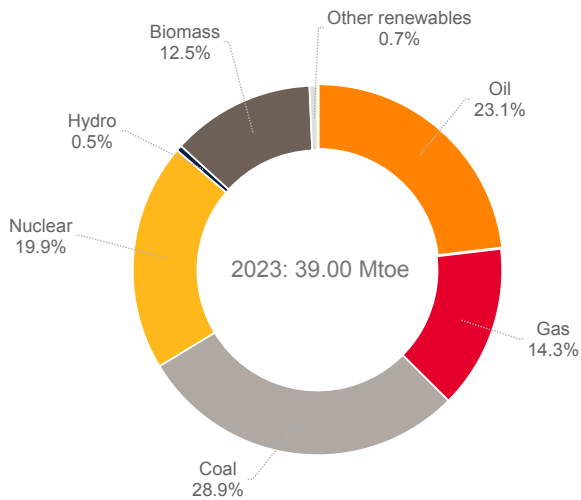
Primary energy demand and CO₂ emissions growth



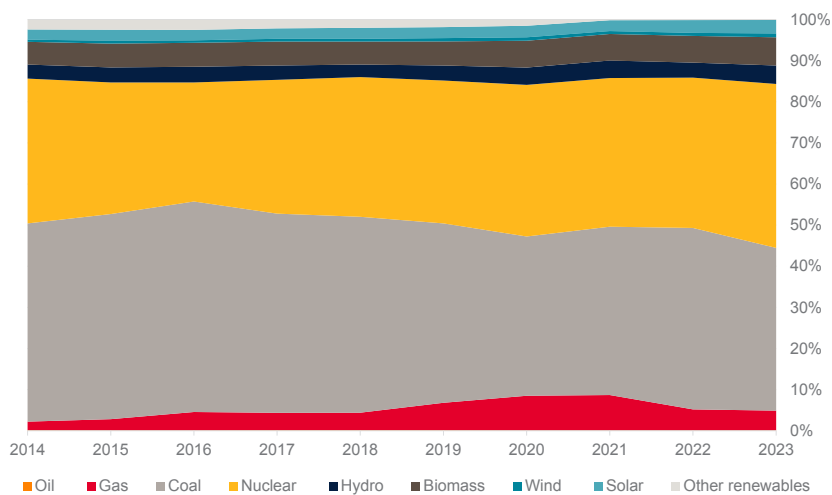
Czech Republic (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	41.9	42.0	41.5	43.3	43.4	42.7	40.3	42.6	41.6	39.0	100.0
Oil	8.8	8.6	8.0	9.3	9.4	9.5	8.5	9.3	9.5	9.2	23.6
Gas	6.2	6.5	7.0	7.2	6.8	7.2	7.3	7.8	6.3	5.7	14.6
Coal	16.0	16.4	16.5	15.8	15.8	14.2	12.2	12.8	13.4	11.5	29.4
Nuclear	7.9	7.0	6.3	7.4	7.8	7.9	7.8	8.0	8.1	7.9	20.3
Hydro	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.5
Biomass	4.0	4.1	4.2	4.3	4.3	4.6	4.8	5.1	4.9	5.0	12.8
Other renewables	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.7
Electricity balance of trade*	-1.4	-1.1	-0.9	-1.1	-1.2	-1.1	-0.8	-0.9	-1.1	-0.7	-1.9
Total final consumption, by source	26.2	26.4	26.3	28.1	27.9	27.8	26.7	28.7	27.3	25.6	100.0
Oil	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.2	9.3	9.0	35.2
Gas	4.9	5.1	5.4	5.6	5.2	5.3	5.2	5.6	4.8	4.2	16.3
Coal	3.3	3.2	3.2	3.3	3.3	2.9	2.8	3.0	2.8	1.9	7.4
Electricity	4.6	4.7	4.8	4.9	5.0	5.0	4.9	5.2	5.0	4.8	18.8
Heat	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.2	2.0	2.1	8.2
Biomass	2.9	2.9	3.0	3.0	3.1	3.3	3.4	3.7	3.5	3.6	14.1
Electricity generation, by source	7.4	7.2	7.2	7.5	7.6	7.5	7.0	7.3	7.3	6.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.2	0.2	0.3	0.3	0.3	0.5	0.6	0.6	0.4	0.3	4.8
Coal	3.6	3.6	3.7	3.6	3.6	3.3	2.7	3.0	3.2	2.6	39.6
Nuclear	2.6	2.3	2.1	2.4	2.6	2.6	2.6	2.6	2.7	2.6	39.9
Hydro	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	4.5
Biomass	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	6.9
Wind	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9
Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.3
Other renewables	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.1
Total final consumption, by sector	26.2	26.4	26.3	28.1	27.9	27.8	26.7	28.7	27.3	25.6	100.0
Industry	7.3	7.4	7.4	7.6	7.7	7.5	7.4	7.9	7.4	6.3	24.7
Transport	5.9	6.2	6.4	6.6	6.6	6.8	6.3	6.8	6.9	7.1	27.5
Residential/Commercial	9.4	9.7	10.1	10.3	10.0	10.0	10.0	10.6	9.7	9.5	37.1
Oil final consumption, by sector	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.2	9.3	9.0	100.0
Industry	0.3	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	1.9
Transport	5.4	5.7	5.9	6.1	6.1	6.2	5.7	6.2	6.3	6.5	72.2
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
Natural gas final consumption, by sector	4.9	5.1	5.4	5.6	5.2	5.3	5.2	5.6	4.8	4.2	100.0
Industry	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.2	2.0	1.7	41.9
Transport	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.6
Residential/Commercial	2.8	2.9	3.2	3.3	3.0	3.0	3.0	3.1	2.6	2.3	54.4
Refined products consumption	8.5	8.4	7.7	9.1	9.2	9.2	8.4	9.2	9.3	9.0	100.0
Gasoline	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.6	1.7	18.6
Diesel	4.2	4.4	4.6	4.7	4.8	4.9	4.6	4.9	5.0	5.1	56.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LPG	0.4	0.3	0.3	0.5	0.5	0.5	0.4	0.4	0.4	0.4	3.9
Imports	16.8	17.3	17.0	19.1	18.6	19.7	16.8	18.6	18.7	17.3	100.0
Oil	10.9	11.2	10.3	11.8	12.0	11.9	10.5	11.4	11.5	11.6	67.2
Gas	6.0	6.2	6.7	7.3	6.6	7.9	6.3	7.2	7.2	5.7	32.8
Gasoline	0.5	0.5	0.8	0.6	0.7	0.6	0.6	0.6	0.6	0.7	3.9
Diesel	1.8	2.2	2.9	2.1	2.4	2.2	2.6	2.7	2.4	2.6	15.3
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	0.1	0.1	0.3	0.2	0.3	0.3	0.1	0.1	0.2	0.1	0.8
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.7
Exports	2.0	2.5	2.2	2.4	2.2	2.2	1.8	2.2	1.8	2.2	100.0
Oil	2.0	2.5	2.2	2.4	2.2	2.2	1.8	2.2	1.8	2.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.5	0.6	0.4	0.6	0.6	0.6	0.4	0.6	0.5	0.6	27.7
Diesel	0.9	1.1	0.8	0.9	0.8	0.8	0.8	1.0	0.7	0.8	35.2
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	4.8
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	4.7
CO₂ Emissions (Million tons CO₂)	99.9	100.8	102.2	103.8	102.6	97.6	89.1	94.4	92.9	81.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	294.6	281.9	278.7	269.3	257.8	238.1	230.0	235.4	226.0	199.1	-
Final energy intensity (toe/million \$15ppp)	68.6	66.9	66.9	65.3	62.7	60.6	62.9	64.7	60.0	57.3	-
Total energy intensity (toe/million \$15ppp)	123.6	117.4	113.1	112.3	109.0	104.2	103.9	106.2	101.1	95.3	-

*Heat is included

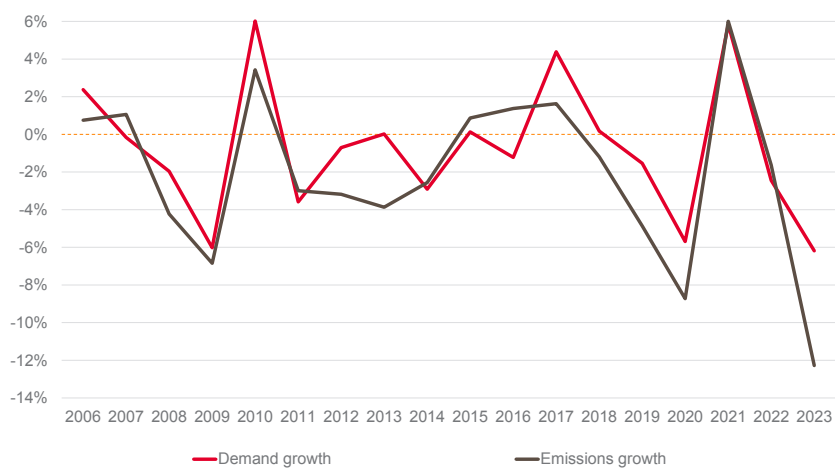
Primary energy demand mix



Electricity generation by source



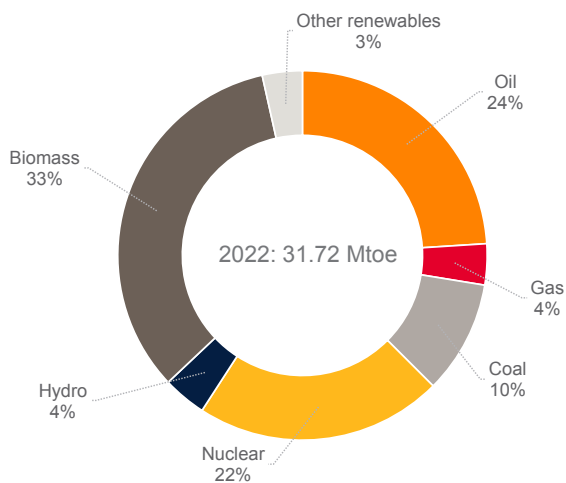
Primary energy demand and CO₂ emissions growth



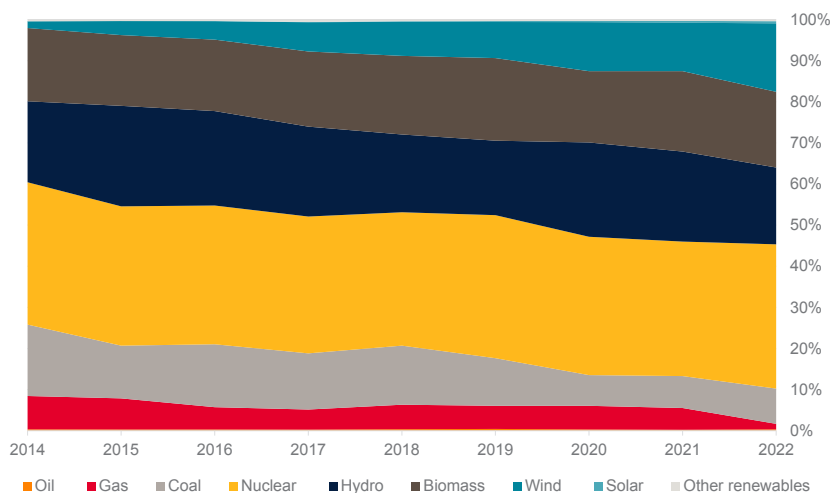
Finland (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2022 (%)
Total primary energy demand, by source	34.3	32.7	33.9	33.8	34.3	33.6	32.0	33.5	31.7	n.d	100.0
Oil	9.0	8.0	8.8	8.4	8.3	8.0	7.7	7.2	7.3	n.d	23.0
Gas	2.5	2.2	2.1	1.9	2.2	2.1	2.1	2.1	1.1	n.d	3.5
Coal	4.5	4.1	4.3	4.1	4.2	3.5	2.9	3.0	3.0	n.d	9.5
Nuclear	6.1	6.1	6.0	5.9	5.9	6.2	6.1	6.1	6.6	n.d	20.8
Hydro	1.2	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.2	n.d	3.7
Biomass	9.3	9.1	9.3	9.8	10.1	10.3	9.6	11.2	10.2	n.d	32.2
Other renewables	0.1	0.2	0.3	0.4	0.5	0.5	0.7	0.8	1.1	n.d	3.4
Electricity balance of trade*	1.7	1.5	1.8	1.9	1.9	1.9	1.5	1.7	1.2	n.d	3.9
Total final consumption, by source	25.4	24.8	25.9	26.0	26.3	26.0	24.6	25.9	24.2	n.d	100.0
Oil	7.5	7.3	7.8	7.5	7.5	7.3	7.1	6.6	6.6	n.d	27.2
Gas	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.8	0.7	n.d	2.7
Coal	0.9	0.9	1.0	0.9	1.0	0.9	0.8	0.9	0.7	n.d	3.1
Electricity	6.8	6.8	7.0	7.0	7.1	7.0	6.6	7.1	6.6	n.d	27.4
Heat	4.0	3.8	4.1	4.0	4.0	3.9	3.6	4.1	3.9	n.d	16.0
Biomass	5.5	5.4	5.5	5.9	6.1	6.2	5.8	6.4	5.7	n.d	23.7
Electricity generation, by source	5.9	5.9	5.9	5.8	6.0	5.9	6.0	6.2	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	0.3
Gas	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.1	n.d	1.3
Coal	1.0	0.8	0.9	0.8	0.9	0.7	0.4	0.5	0.5	n.d	8.6
Nuclear	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.0	2.2	n.d	35.1
Hydro	1.2	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.2	n.d	18.7
Biomass	1.0	1.0	1.0	1.1	1.2	1.2	1.0	1.2	1.1	n.d	18.4
Wind	0.1	0.2	0.3	0.4	0.5	0.5	0.7	0.7	1.0	n.d	16.6
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d	0.5
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	25.4	24.8	25.9	26.0	26.3	26.0	24.6	25.9	24.2	n.d	100.0
Industry	10.6	10.5	10.9	11.1	11.5	11.3	10.6	11.2	10.1	n.d	41.8
Transport	4.2	4.2	4.3	4.3	4.3	4.3	4.0	4.1	4.0	n.d	16.5
Residential/Commercial	7.9	7.6	8.2	8.1	8.2	8.0	7.5	8.3	7.8	n.d	32.2
Oil final consumption, by sector	7.5	7.3	7.8	7.5	7.5	7.3	7.1	6.6	6.6	n.d	100.0
Industry	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.9	1.0	n.d	14.6
Transport	3.7	3.7	4.1	3.8	3.9	3.8	3.5	3.3	3.3	n.d	49.8
Residential/Commercial	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.4	n.d	6.4
Natural gas final consumption, by sector	0.7	0.6	0.6	0.7	0.6	0.7	0.7	0.8	0.7	n.d	100.0
Industry	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.6	n.d	83.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d	2.0
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	n.d	6.6
Refined products consumption	7.5	7.3	7.8	7.5	7.5	7.3	7.1	6.6	6.6	n.d	100.0
Gasoline	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.2	1.1	n.d	17.5
Diesel	3.7	3.6	4.0	3.9	3.9	3.8	3.7	3.4	3.4	n.d	51.5
Heating Oil	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	n.d	2.5
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d	1.2
LPG	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	n.d	16.8
Imports	20.6	18.8	20.5	19.9	20.2	20.2	19.4	15.9	17.4	n.d	100.0
Oil	18.0	16.5	18.5	18.0	18.0	18.1	17.2	13.8	16.2	n.d	93.5
Gas	2.5	2.2	2.1	1.9	2.2	2.1	2.1	2.1	1.1	n.d	6.5
Gasoline	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	n.d	3.8
Diesel	2.2	1.8	2.0	1.8	1.6	1.6	2.0	1.6	1.9	n.d	11.0
Heating Oil	1.2	1.1	1.2	0.9	0.4	0.6	0.4	0.6	0.9	n.d	5.4
Aviation Jet	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1	n.d	0.6
LPG	0.9	0.9	0.8	0.8	0.9	0.9	0.9	1.0	1.2	n.d	6.8
Exports	8.7	7.0	9.2	9.1	9.0	9.7	8.9	6.6	8.0	n.d	100.0
Oil	8.7	7.0	9.2	9.1	9.0	9.7	8.9	6.6	8.0	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	2.5	3.1	3.2	3.1	3.5	3.1	2.5	3.3	n.d	41.2
Diesel	3.8	3.0	3.9	3.8	3.7	3.9	3.5	2.3	2.3	n.d	28.4
Heating Oil	0.8	0.8	1.3	1.1	1.1	1.1	1.1	0.9	1.4	n.d	17.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d	0.4
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)	47.6	44.2	47.6	45.1	46.3	43.0	38.3	38.3	35.9	n.d	-
CO₂ Intensity (tCO₂/million \$15ppp)	205.7	189.9	199.0	182.5	185.3	170.0	155.3	150.6	138.2	n.d	-
Final energy intensity (toe/million \$15ppp)	102.7	100.3	102.0	99.3	99.5	97.1	93.2	96.4	87.5	n.d	-
Total energy intensity (toe/million \$15ppp)	148.2	140.3	141.7	136.7	137.2	132.9	129.4	131.6	122.1	n.d	-

*Heat is included

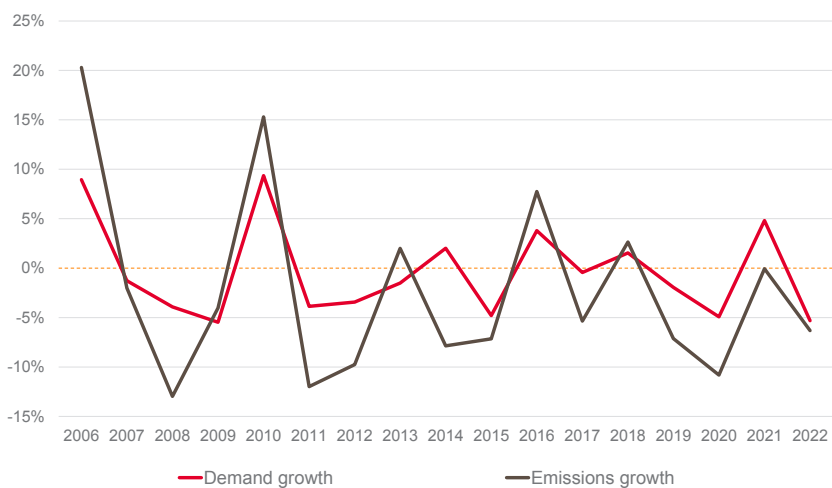
Primary energy demand mix



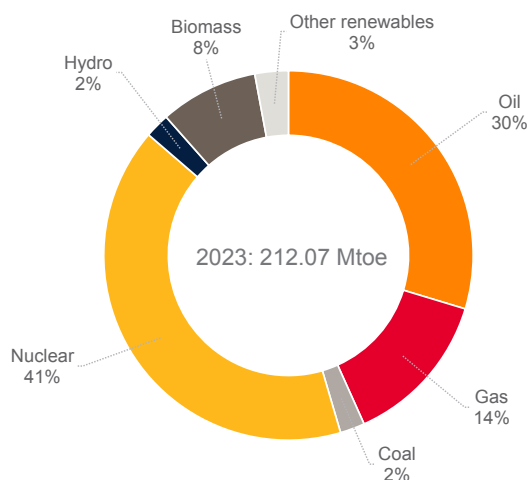
Electricity generation by source



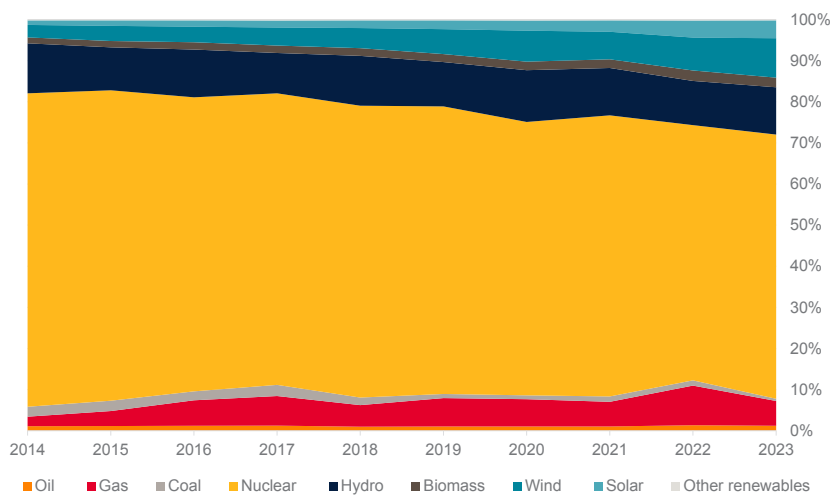
Primary energy demand and CO₂ emissions growth



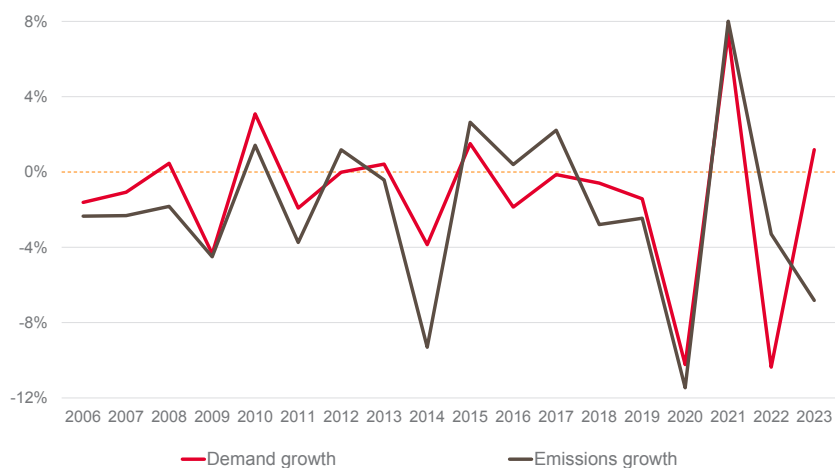
Primary energy demand mix



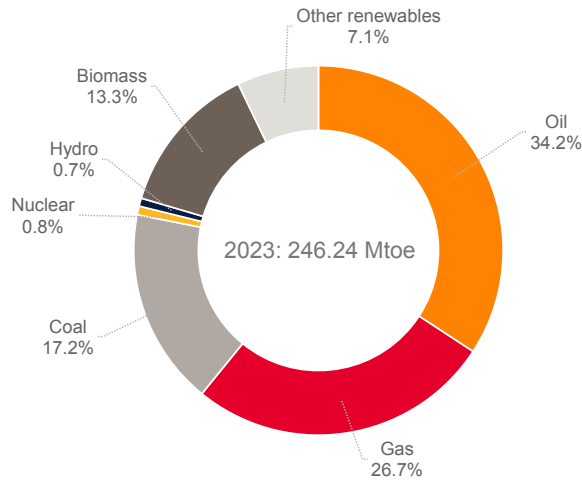
Electricity generation by source



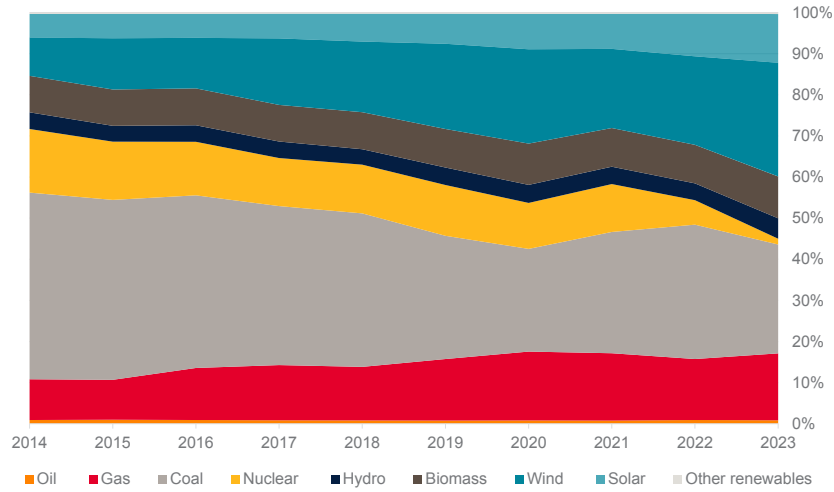
Primary energy demand and CO₂ emissions growth



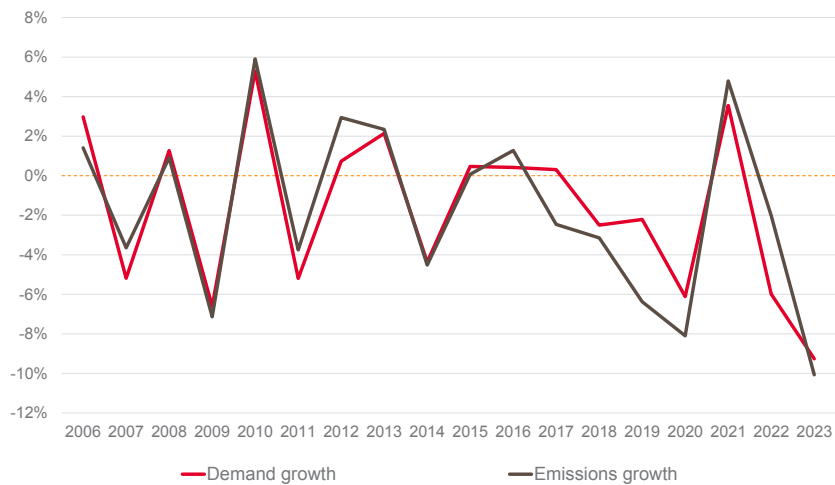
Primary energy demand mix



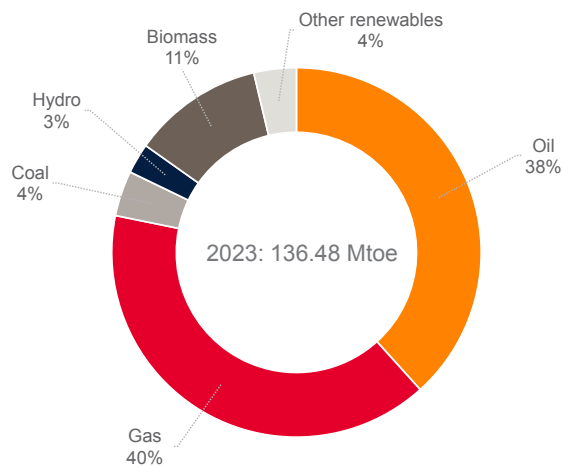
Electricity generation by source



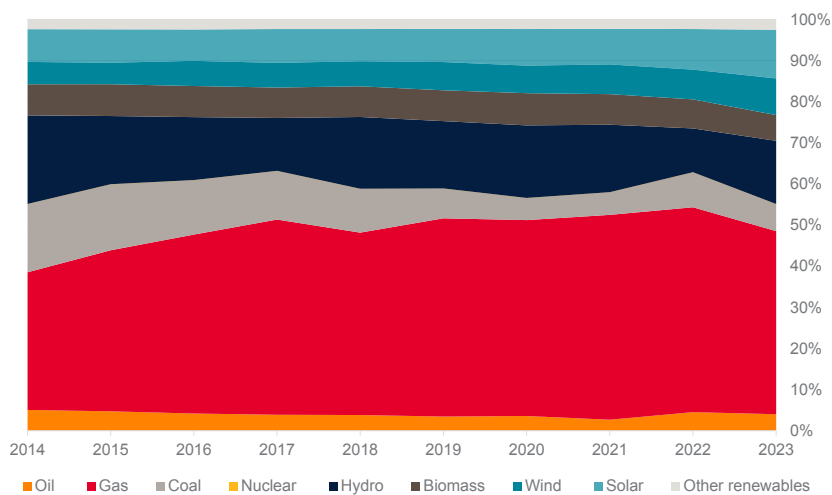
Primary energy demand and CO₂ emissions growth



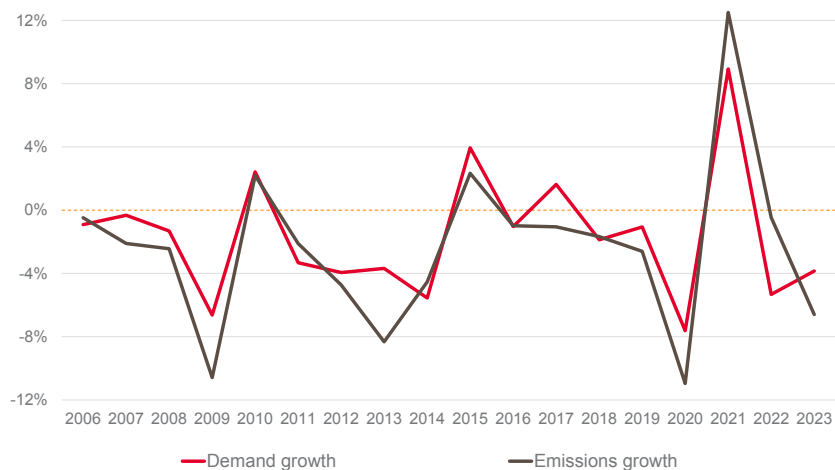
Primary energy demand mix



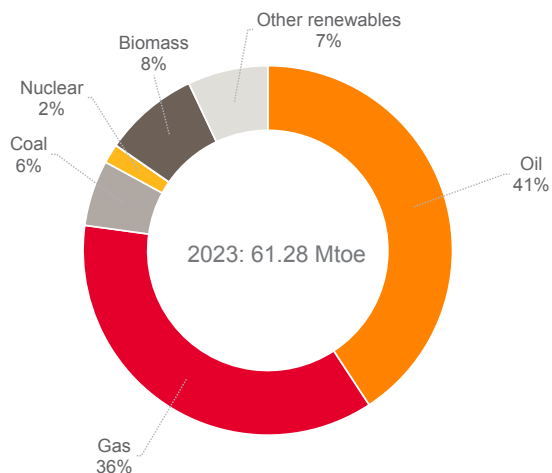
Electricity generation by source



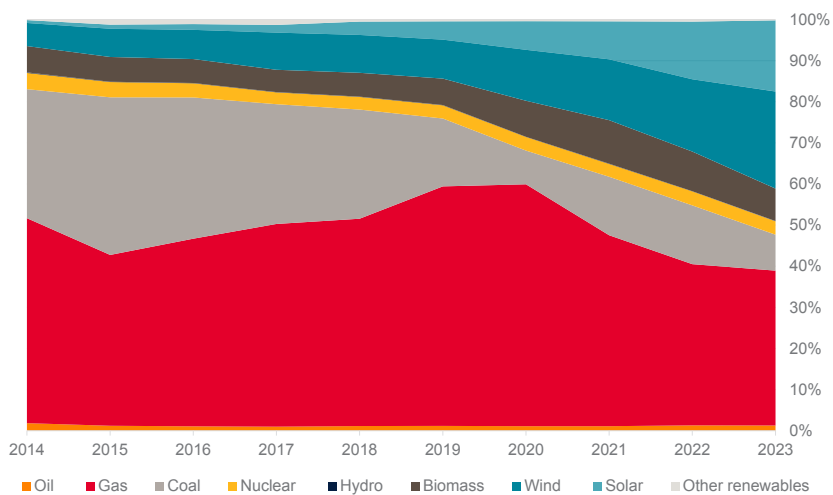
Primary energy demand and CO₂ emissions growth



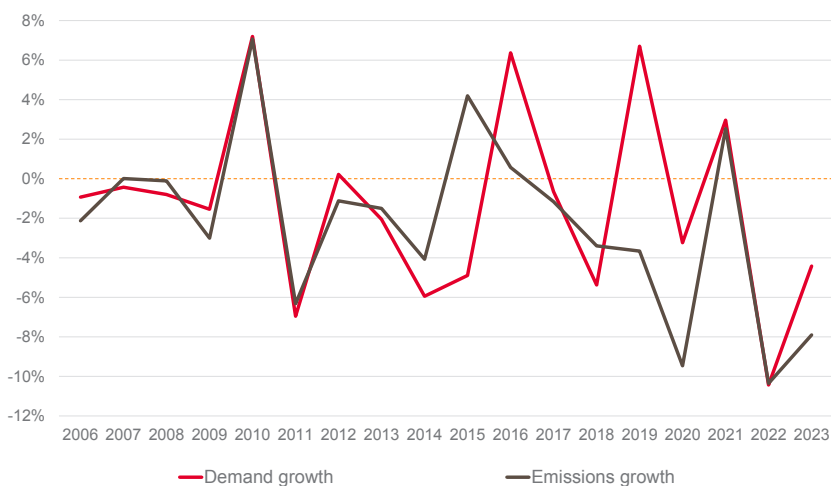
Primary energy demand mix



Electricity generation by source



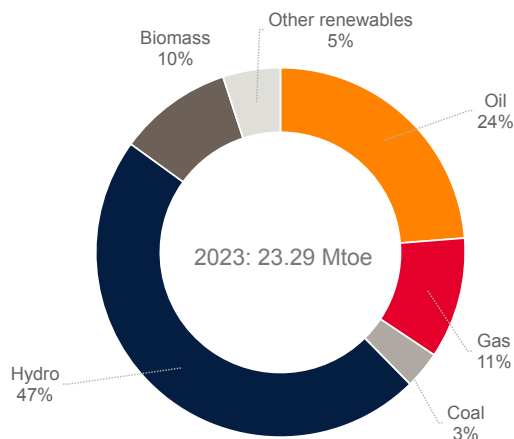
Primary energy demand and CO₂ emissions growth



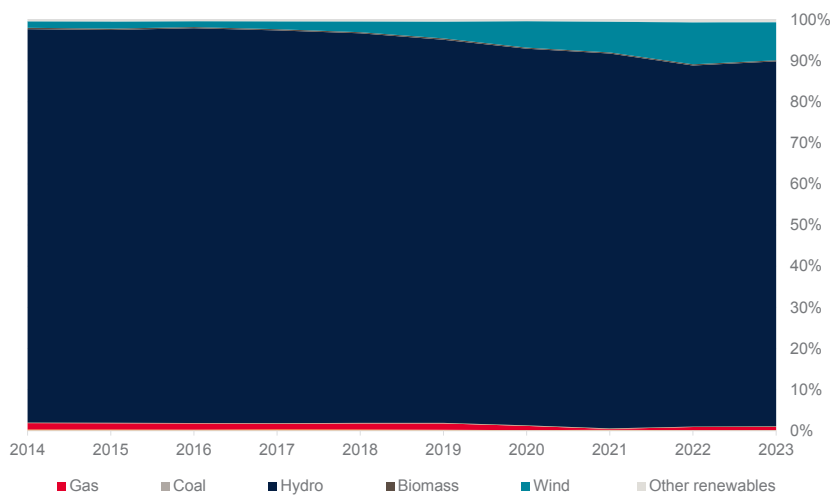
Norway (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	28.4	25.5	28.3	29.8	29.8	28.3	28.0	29.0	25.5	23.3	100.0
Oil	9.8	6.1	9.1	10.8	10.1	9.1	9.2	8.9	7.2	5.8	25.1
Gas	5.7	6.2	5.6	5.0	5.6	5.0	4.6	5.1	4.0	2.6	11.2
Coal	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	3.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	11.6	11.7	12.2	12.2	11.9	10.7	12.1	12.3	10.9	11.7	50.1
Biomass	1.4	1.5	1.7	1.9	1.9	2.0	1.9	2.1	2.1	2.5	10.6
Other renewables	0.2	0.2	0.2	0.2	0.3	0.5	0.9	1.0	1.3	1.2	5.3
Electricity balance of trade*	-1.2	-1.1	-1.3	-1.2	-0.7	0.1	-1.6	-1.3	-0.9	-1.3	-5.7
Total final consumption, by source	20.8	21.2	21.3	21.6	21.8	21.6	21.2	22.0	21.2	21.8	100.0
Oil	8.4	8.4	8.3	8.2	8.3	8.0	7.7	7.9	7.9	8.1	37.2
Gas	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.8	0.7	0.4	2.0
Coal	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.8	0.8	3.6
Electricity	9.4	9.6	9.8	9.9	10.1	10.0	10.0	10.5	9.9	10.1	46.5
Heat	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	2.7
Biomass	1.0	1.0	1.1	1.4	1.3	1.4	1.4	1.5	1.5	1.8	8.1
Electricity generation, by source	12.2	12.4	12.8	12.8	12.6	11.6	13.3	13.6	12.6	13.3	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.1	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	0.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	11.7	11.8	12.3	12.2	12.0	10.8	12.2	12.4	11.0	11.8	88.8
Biomass	0.0	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	0.3	0.5	0.9	1.0	1.3	1.2	9.1
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	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.5
Total final consumption, by sector	20.8	21.2	21.3	21.6	21.8	21.6	21.2	22.0	21.2	21.8	100.0
Industry	6.1	6.1	6.1	6.2	6.3	6.3	6.4	6.7	6.5	6.3	28.8
Transport	5.3	5.3	5.3	5.3	5.1	5.1	4.8	5.0	5.2	5.9	26.9
Residential/Commercial	6.5	6.7	7.0	7.0	7.1	7.0	6.9	7.3	6.7	7.0	32.1
Oil final consumption, by sector	8.4	8.4	8.3	8.2	8.3	8.0	7.7	7.9	7.9	8.1	100.0
Industry	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.7	9.1
Transport	5.0	5.0	4.8	4.6	4.6	4.5	4.2	4.4	4.5	4.9	60.3
Residential/Commercial	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	3.7
Natural gas final consumption, by sector	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.8	0.7	0.4	100.0
Industry	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	36.4
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	1.7
Refined products consumption	8.4	8.4	8.3	8.2	8.3	8.0	7.7	7.9	7.9	8.1	100.0
Gasoline	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6	7.7
Diesel	4.6	4.7	4.7	4.5	4.6	4.4	4.3	4.5	4.5	4.4	54.7
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Aviation Jet	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.8	10.5
LPG	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	6.6
Imports	5.5	6.5	6.3	7.9	9.1	9.6	9.3	8.9	9.1	12.9	100.0
Oil	5.5	6.5	6.3	7.9	9.1	9.6	9.3	8.7	9.1	12.8	99.3
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.7
Gasoline	0.2	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.7	0.8	6.4
Diesel	1.1	1.7	1.8	1.8	1.6	2.1	2.5	2.7	3.9	3.4	26.3
Heating Oil	1.2	1.6	1.3	1.8	1.4	1.0	0.8	0.9	1.2	1.4	10.5
Aviation Jet	0.4	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.4	2.9
LPG	0.2	0.2	0.4	0.2	0.3	0.3	0.2	0.2	0.3	0.2	1.8
Exports	171.5	185.9	185.0	192.4	184.6	177.2	187.6	193.4	198.1	201.3	100.0
Oil	81.5	89.1	88.3	88.4	83.3	81.3	94.1	97.7	92.9	100.8	50.1
Gas	90.0	96.7	96.8	104.0	101.3	95.9	93.5	95.7	105.2	100.6	49.9
Gasoline	2.2	3.3	3.5	3.8	4.1	3.8	3.3	4.1	3.9	3.8	1.9
Diesel	2.8	3.4	2.8	4.4	4.2	4.2	3.4	3.5	2.4	2.7	1.3
Heating Oil	1.5	1.4	1.0	1.4	1.4	1.6	1.6	0.8	0.1	0.3	0.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.3	0.1
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	40.9	41.8	40.8	40.8	40.5	39.5	37.8	37.9	37.1	33.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	132.3	132.8	127.9	124.8	123.1	118.5	115.0	111.0	105.2	95.6	-
Final energy intensity (toe/million \$15ppp)	59.5	59.2	59.5	58.6	58.4	57.3	57.0	57.6	54.0	55.8	-
Total energy intensity (toe/million \$15ppp)	91.7	80.9	88.7	91.2	90.5	85.0	85.0	84.8	72.1	65.7	-

*Heat is included

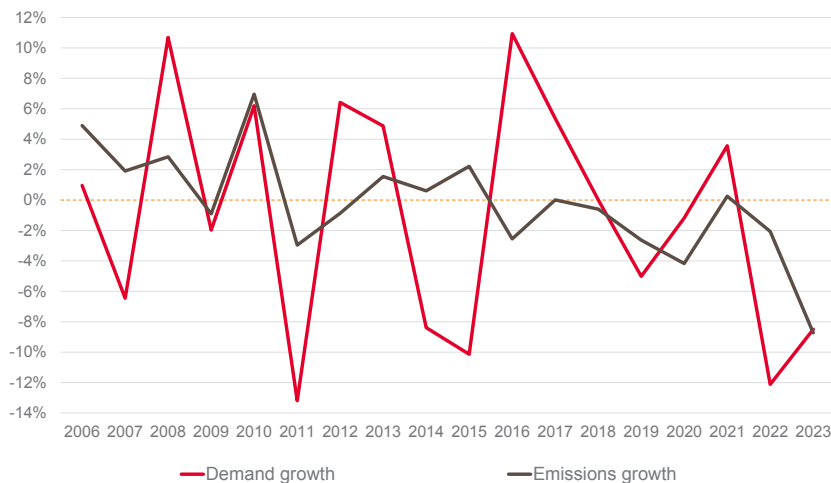
Primary energy demand mix



Electricity generation by source



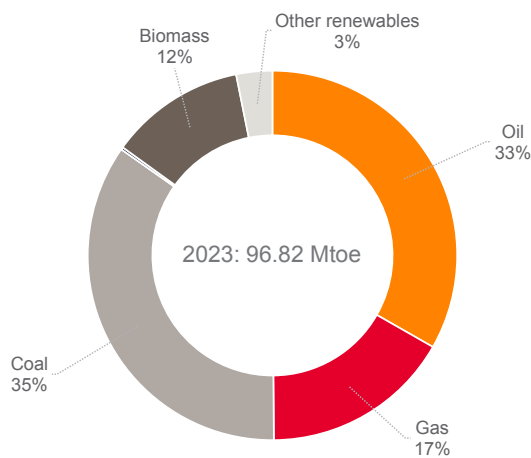
Primary energy demand and CO₂ emissions growth



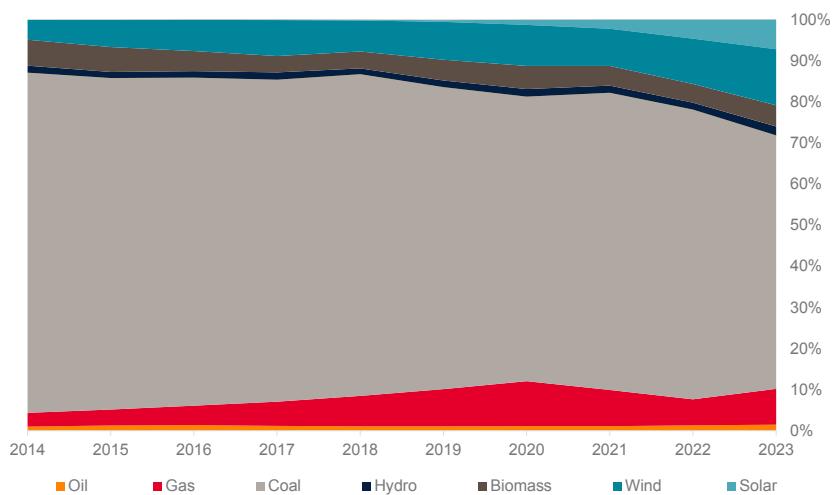
Poland (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	94.6	95.6	99.9	104.5	109.5	105.5	102.3	108.6	103.6	96.8	100.0
Oil	22.6	24.0	26.4	29.7	30.4	30.8	29.5	31.1	32.2	32.0	33.1
Gas	13.4	13.8	14.6	15.4	16.1	16.2	17.1	18.2	15.0	16.0	16.5
Coal	49.3	48.3	49.1	49.4	49.4	44.0	40.9	45.4	42.3	33.6	34.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Biomass	8.2	8.3	8.1	8.1	11.7	11.9	11.9	11.7	11.4	11.5	11.8
Other renewables	0.7	0.9	1.1	1.3	1.1	1.4	1.5	1.7	2.4	3.0	3.1
Electricity balance of trade*	0.3	0.1	0.3	0.3	0.6	1.0	1.3	0.2	-0.0	0.5	0.5
Total final consumption, by source	65.9	67.1	71.3	75.7	79.2	78.0	76.2	79.7	77.0	74.2	100.0
Oil	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.0	29.4	39.7
Gas	10.0	10.3	11.0	11.0	10.9	10.8	10.9	12.5	11.3	11.3	15.3
Coal	12.9	12.4	12.7	13.0	12.4	10.7	10.3	10.1	8.6	6.9	9.3
Electricity	10.8	11.0	11.4	11.7	12.1	12.1	11.8	12.3	12.2	11.8	15.9
Heat	5.5	5.5	5.7	5.9	5.7	5.7	5.7	6.1	5.7	5.7	7.7
Biomass	5.7	5.9	6.1	6.4	9.9	9.7	9.4	9.3	9.2	9.0	12.2
Electricity generation, by source	13.7	14.2	14.3	14.7	14.6	14.1	13.6	15.4	15.5	14.6	100.0
Oil	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5
Gas	0.5	0.5	0.7	0.9	1.1	1.3	1.5	1.4	1.0	1.3	8.7
Coal	11.3	11.4	11.4	11.5	11.4	10.4	9.4	11.2	10.9	9.0	61.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	2.2
Biomass	0.9	0.9	0.7	0.6	0.6	0.7	0.8	0.7	0.7	0.8	5.2
Wind	0.7	0.9	1.1	1.3	1.1	1.3	1.4	1.4	1.7	2.0	13.6
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.7	1.1	7.2
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	65.9	67.1	71.3	75.7	79.2	78.0	76.2	79.7	77.0	74.2	100.0
Industry	15.2	15.3	15.8	17.0	17.5	17.6	16.8	17.2	15.9	15.2	20.6
Transport	15.4	16.2	18.2	21.0	21.9	22.4	21.4	23.2	23.9	24.0	32.4
Residential/Commercial	26.7	26.7	28.3	27.9	30.3	28.6	28.4	30.2	28.4	27.0	36.4
Oil final consumption, by sector	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.0	29.4	100.0
Industry	0.7	0.6	0.6	0.7	0.7	0.9	0.9	0.9	0.9	0.8	2.9
Transport	14.5	15.3	17.4	20.2	20.7	21.1	20.1	21.8	22.3	22.5	76.3
Residential/Commercial	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0	3.5
Natural gas final consumption, by sector	10.0	10.3	11.0	11.0	10.9	10.8	10.9	12.5	11.3	11.3	100.0
Industry	3.2	3.2	3.4	3.7	3.9	3.9	3.9	4.2	3.7	3.7	32.4
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	4.8	4.9	5.4	5.1	4.9	5.0	5.0	6.2	5.9	5.9	52.0
Refined products consumption	21.0	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.0	29.4	100.0
Gasoline	3.5	3.7	3.9	4.2	4.4	4.5	4.2	4.7	5.0	5.2	17.8
Diesel	11.6	12.2	14.1	16.7	17.2	17.4	17.0	18.2	18.1	18.0	61.3
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LPG	2.6	2.6	2.7	2.9	2.9	3.1	2.7	2.8	2.9	2.9	9.9
Imports	38.9	42.5	44.8	48.1	49.9	50.6	48.0	49.9	50.7	52.4	100.0
Oil	29.2	32.5	32.6	35.1	36.9	36.2	33.5	34.5	38.0	37.9	72.4
Gas	9.7	10.0	12.2	13.0	13.1	14.5	14.5	15.3	12.7	14.5	27.6
Gasoline	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.8	0.9	1.1	2.0
Diesel	1.5	2.1	3.8	5.3	4.9	4.6	4.4	5.6	5.4	7.0	13.4
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.2	2.2	2.4	2.7	2.8	2.9	2.4	2.5	2.8	3.0	5.7
Exports	7.5	8.4	7.9	6.3	6.8	6.5	5.8	4.2	5.9	6.2	100.0
Oil	7.4	8.4	7.2	5.3	6.2	5.4	4.7	4.1	5.3	5.7	90.8
Gas	0.1	0.0	0.7	1.0	0.6	1.1	1.2	0.1	0.5	0.6	9.2
Gasoline	0.7	0.8	0.5	0.2	0.4	0.3	0.2	0.1	0.1	0.3	4.1
Diesel	1.0	1.8	1.1	0.2	0.0	0.1	0.3	0.1	1.2	1.3	21.1
Heating Oil	2.8	2.6	2.4	2.4	2.7	2.2	1.1	1.0	1.1	1.4	22.4
Aviation Jet	0.5	0.5	0.5	0.2	0.3	0.3	0.2	0.2	0.1	0.0	0.3
LPG	0.2	0.2	0.3	0.5	0.6	0.5	0.4	0.4	0.6	0.7	11.8
CO₂ Emissions (Million tons CO₂)	292.5	296.6	307.3	319.9	318.9	301.6	286.2	315.1	298.2	265.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	299.7	291.1	292.9	290.1	272.9	247.1	239.3	246.6	222.6	198.0	-
Final energy intensity (toe/million \$15ppp)	62.2	60.4	62.7	63.3	63.0	59.3	58.9	58.2	53.4	51.7	-
Total energy intensity (toe/million \$15ppp)	97.0	93.8	95.2	94.7	93.7	86.4	85.5	85.0	77.3	72.1	-

*Heat is included

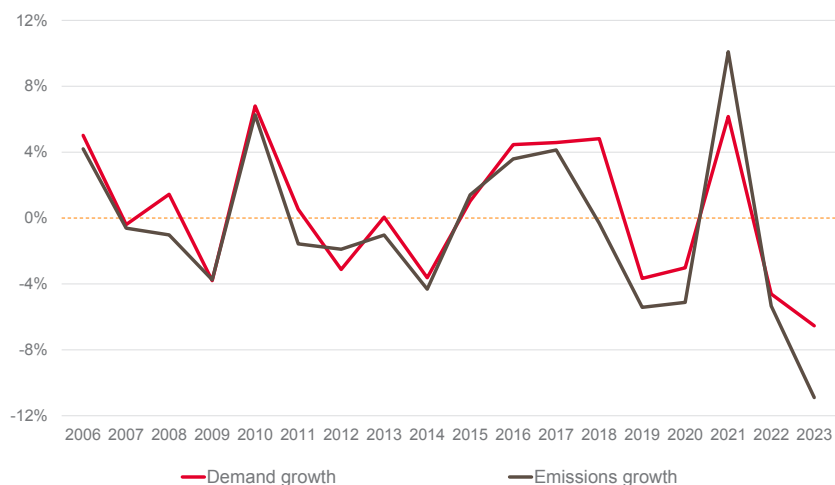
Primary energy demand mix



Electricity generation by source



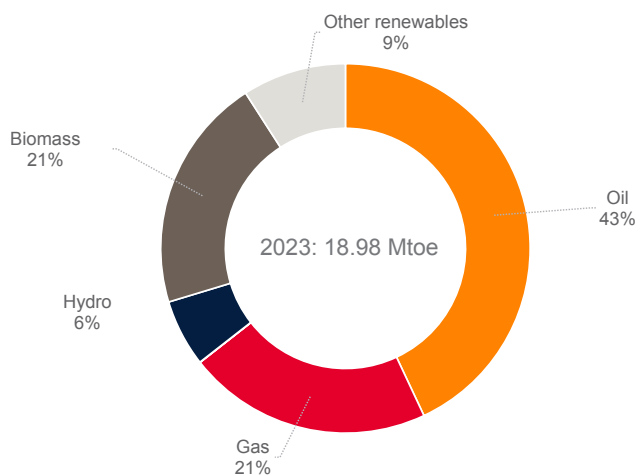
Primary energy demand and CO₂ emissions growth



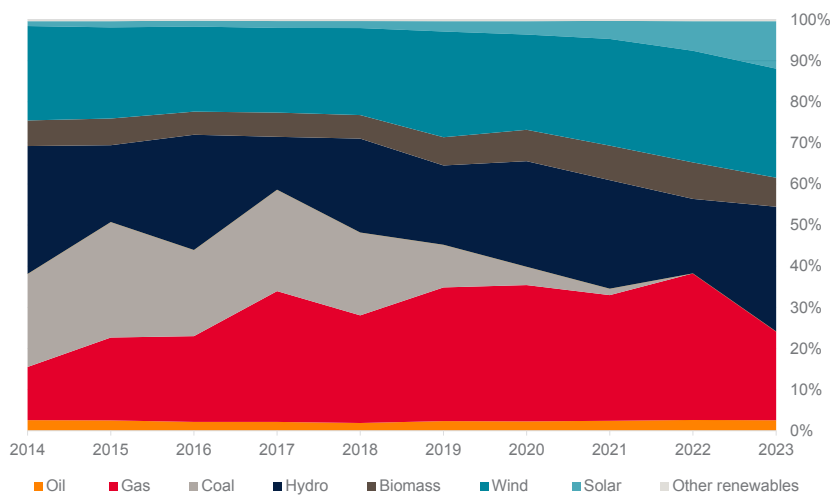
Portugal (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	21.1	21.9	21.8	22.7	22.0	21.7	20.1	20.1	20.3	19.0	100.0
Oil	9.2	9.3	9.2	9.3	8.9	9.4	8.4	8.5	8.9	7.7	40.4
Gas	3.5	4.1	4.3	5.4	5.0	5.3	5.2	5.0	4.8	3.8	20.1
Coal	2.7	3.3	2.8	3.2	2.7	1.2	0.6	0.2	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	1.3	0.7	1.4	0.5	1.1	0.8	1.0	1.0	0.6	1.0	5.5
Biomass	3.0	3.0	3.1	3.1	3.1	3.2	3.3	3.4	3.5	3.7	19.3
Other renewables	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.3	1.4	1.6	8.5
Electricity balance of trade*	0.3	0.5	-0.2	0.0	0.1	0.6	0.4	0.7	1.1	1.2	6.2
Total final consumption, by source	16.2	16.3	16.2	16.5	16.2	16.8	15.6	16.2	16.3	15.9	100.0
Oil	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.7	7.8	7.0	44.2
Gas	1.5	1.6	1.6	1.7	1.8	1.8	1.7	1.9	1.7	1.8	11.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.9	3.9	4.0	4.0	4.1	4.1	4.0	4.1	4.2	4.3	26.7
Heat	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.6
Biomass	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.6	16.0
Electricity generation, by source	4.5	4.5	5.2	5.1	5.1	4.6	4.6	4.4	4.2	4.3	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	0.9	1.1	1.6	1.3	1.5	1.5	1.3	1.5	0.9	21.6
Coal	1.0	1.3	1.1	1.3	1.0	0.5	0.2	0.1	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	1.4	0.8	1.5	0.7	1.2	0.9	1.2	1.2	0.8	1.3	30.3
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	7.1
Wind	1.0	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	26.5
Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	11.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Total final consumption, by sector	16.2	16.3	16.2	16.5	16.2	16.8	15.6	16.2	16.3	15.9	100.0
Industry	4.4	4.4	4.4	4.5	4.5	4.6	4.4	4.5	4.5	4.5	28.1
Transport	5.5	5.6	5.7	5.8	5.9	6.0	5.0	5.5	5.8	6.1	38.3
Residential/Commercial	4.5	4.5	4.5	4.5	4.6	4.6	4.5	4.5	4.5	4.5	28.4
Oil final consumption, by sector	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.7	7.8	7.0	100.0
Industry	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.3	3.8
Transport	5.2	5.2	5.4	5.5	5.5	5.7	4.7	5.1	5.4	5.7	80.5
Residential/Commercial	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	6.0
Natural gas final consumption, by sector	1.5	1.6	1.6	1.7	1.8	1.8	1.7	1.9	1.7	1.8	100.0
Industry	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.3	1.2	1.2	66.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	27.9
Refined products consumption	8.3	8.2	8.1	8.3	7.8	8.3	7.4	7.7	7.8	7.0	100.0
Gasoline	1.1	1.1	1.1	1.1	1.1	1.1	0.9	1.0	1.1	1.2	16.5
Diesel	4.4	4.5	4.7	4.7	4.8	4.9	4.3	4.5	4.7	4.8	68.3
Heating Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.7
Aviation Jet	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	2.7
LPG	1.1	0.9	0.9	0.8	0.7	0.9	0.9	0.8	0.8	0.5	7.3
Imports	18.8	22.2	22.0	23.9	22.0	21.7	19.9	19.6	20.4	18.1	100.0
Oil	15.3	18.1	17.8	18.4	16.9	16.5	14.7	14.7	15.4	14.4	79.5
Gas	3.5	4.1	4.3	5.4	5.1	5.3	5.1	5.0	5.0	3.7	20.5
Gasoline	0.2	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.4	2.0
Diesel	0.7	0.8	1.0	0.9	0.9	1.3	0.9	1.5	1.3	1.6	8.9
Heating Oil	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.8
Aviation Jet	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.2	0.4	0.4	2.4
LPG	0.9	0.8	0.8	0.7	0.6	0.8	0.8	0.8	0.8	0.5	2.9
Exports	4.8	6.9	6.8	7.0	5.4	4.9	5.3	5.1	4.6	4.7	100.0
Oil	4.8	6.9	6.8	7.0	5.4	4.9	5.3	5.1	4.6	4.7	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	1.0	1.9	1.8	2.0	1.7	1.7	1.3	1.5	1.6	1.4	29.3
Diesel	1.3	2.3	2.1	2.1	1.2	0.9	1.3	1.4	0.6	0.5	11.7
Heating Oil	1.5	1.6	1.6	1.5	1.2	1.1	1.5	1.5	1.7	1.6	33.4
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	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	1.9
CO₂ Emissions (Million tons CO₂)	44.4	48.5	47.9	52.2	48.4	43.7	37.9	36.3	36.7	33.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	147.2	157.9	152.8	161.0	145.0	127.7	120.5	109.4	103.7	91.2	-
Final energy intensity (toe/million \$15ppp)	49.0	48.7	48.0	47.1	46.4	45.7	45.9	45.2	43.3	43.1	-
Total energy intensity (toe/million \$15ppp)	70.1	71.4	69.4	70.1	65.9	63.4	64.1	60.6	57.5	52.5	-

*Heat is included

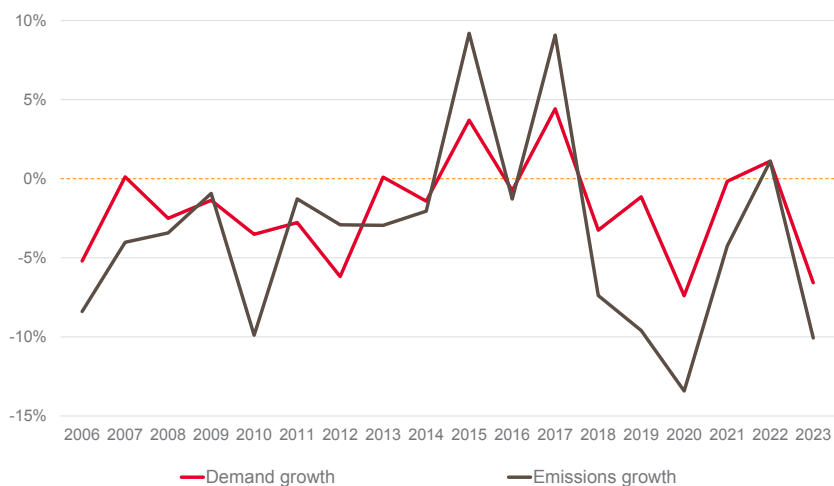
Primary energy demand mix



Electricity generation by source



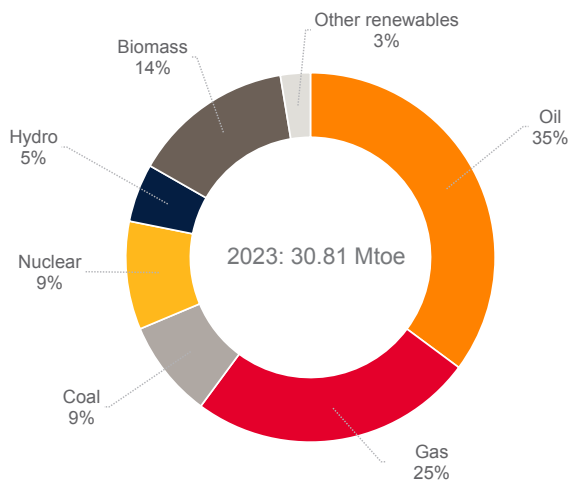
Primary energy demand and CO₂ emissions growth



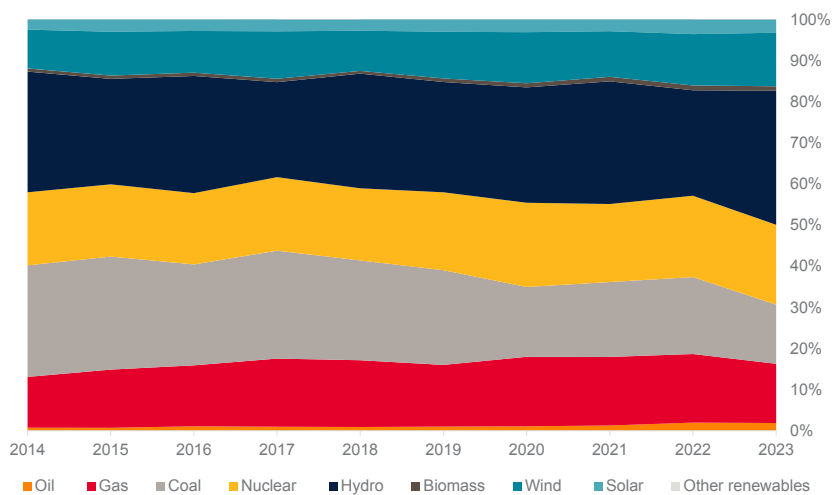
Romania (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	31.5	31.8	31.7	33.3	33.5	33.1	32.3	34.2	31.6	30.8	100.0
Oil	7.8	8.5	8.6	9.4	9.6	9.8	9.7	10.5	10.5	10.9	35.4
Gas	9.3	8.9	9.0	9.6	9.8	9.2	9.6	9.8	8.3	7.7	25.2
Coal	5.7	5.9	5.3	5.4	5.1	4.9	3.5	4.1	3.5	2.7	8.6
Nuclear	3.0	3.0	2.9	3.0	3.0	2.9	3.0	2.9	2.9	2.9	9.5
Hydro	1.6	1.4	1.6	1.2	1.5	1.3	1.3	1.5	1.2	1.6	5.1
Biomass	3.9	3.8	4.0	4.0	4.0	4.1	4.2	4.5	4.3	4.4	14.2
Other renewables	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.8	2.6
Electricity balance of trade*	-0.6	-0.6	-0.4	-0.2	-0.2	0.2	0.3	0.2	0.1	-0.2	-0.8
Total final consumption, by source	23.0	22.8	23.1	24.0	24.4	24.7	24.6	26.3	24.4	24.2	100.0
Oil	7.3	7.6	7.9	8.3	8.5	9.0	8.8	9.3	9.6	9.8	40.7
Gas	6.3	5.6	5.5	5.9	6.1	5.9	6.2	6.9	5.3	5.1	21.0
Coal	0.9	1.0	0.9	0.8	0.8	0.8	0.8	0.9	0.7	0.7	2.9
Electricity	3.6	3.7	3.7	3.8	3.9	3.9	3.8	4.0	3.7	3.6	14.7
Heat	1.3	1.3	1.3	1.3	1.3	1.1	1.0	1.0	0.9	0.9	3.5
Biomass	3.7	3.6	3.8	3.8	3.8	3.8	4.0	4.2	4.1	4.2	17.2
Electricity generation, by source	5.6	5.7	5.6	5.5	5.6	5.1	4.8	5.1	4.8	5.0	100.0
Oil	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.9
Gas	0.7	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.7	14.4
Coal	1.5	1.6	1.4	1.4	1.4	1.2	0.8	0.9	0.9	0.7	14.4
Nuclear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	19.4
Hydro	1.7	1.5	1.6	1.3	1.6	1.4	1.4	1.5	1.2	1.6	32.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	1.1
Wind	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	13.0
Solar	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	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	23.0	22.8	23.1	24.0	24.4	24.7	24.6	26.3	24.4	24.2	100.0
Industry	6.5	6.4	6.3	6.4	6.6	6.7	6.4	6.9	5.7	5.6	23.0
Transport	5.3	5.4	5.8	6.2	6.4	6.6	6.5	6.9	7.5	7.7	31.7
Residential/Commercial	9.2	9.2	9.3	9.6	9.6	9.5	9.6	10.4	9.6	9.4	38.7
Oil final consumption, by sector	7.3	7.6	7.9	8.3	8.5	9.0	8.8	9.3	9.6	9.8	100.0
Industry	0.9	1.0	0.9	0.9	1.0	1.2	1.1	1.1	1.1	1.0	10.6
Transport	5.0	5.1	5.4	5.8	6.0	6.1	5.9	6.3	6.8	7.1	71.7
Residential/Commercial	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	3.3
Natural gas final consumption, by sector	6.3	5.6	5.5	5.9	6.1	5.9	6.2	6.9	5.3	5.1	100.0
Industry	2.5	2.2	2.1	2.2	2.3	2.1	2.2	2.4	1.8	1.7	33.1
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	2.9	3.0	3.0	3.2	3.3	3.3	3.5	4.0	3.5	3.3	64.9
Refined products consumption	7.3	7.5	7.9	8.3	8.5	9.0	8.7	9.2	9.6	9.8	100.0
Gasoline	1.4	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.5	15.4
Diesel	4.2	4.4	4.7	5.1	5.3	5.5	5.4	5.9	6.4	6.6	67.1
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	0.1	0.1	0.0	0.0	0.1	0.0	0.5
LPG	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	4.5
Imports	9.7	9.8	11.6	12.1	12.9	14.2	12.4	14.1	14.8	14.3	100.0
Oil	9.2	9.6	10.4	11.1	11.6	12.1	10.7	11.2	12.5	12.2	85.3
Gas	0.5	0.2	1.2	1.0	1.2	2.1	1.7	2.8	2.3	2.1	14.7
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Diesel	1.0	1.2	1.2	1.4	1.5	1.2	1.3	1.9	2.1	2.9	20.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.7
LPG	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	1.9
Exports	4.8	4.9	5.3	5.2	5.5	5.6	4.6	4.6	5.7	6.2	100.0
Oil	4.8	4.9	5.3	5.2	5.5	5.6	4.5	4.1	4.9	4.4	71.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.8	1.8	29.0
Gasoline	1.8	1.9	2.2	2.0	2.3	2.3	2.0	1.7	2.1	1.7	28.3
Diesel	1.7	1.6	1.7	1.6	1.6	1.6	1.2	0.9	1.1	1.0	16.2
Heating Oil	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.3
Aviation Jet	0.3	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.4	0.4	7.3
LPG	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	5.4
CO₂ Emissions (Million tons CO₂)	69.1	69.4	67.8	71.1	71.6	70.1	64.9	69.9	66.1	64.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	166.5	162.0	153.9	149.0	141.7	133.5	128.3	130.6	117.9	111.8	-
Final energy intensity (toe/million \$15ppp)	51.7	50.5	49.9	48.0	46.2	44.9	46.1	46.9	42.3	41.1	-
Total energy intensity (toe/million \$15ppp)	75.9	74.2	72.0	69.7	66.3	63.1	63.8	64.0	56.4	53.8	-

*Heat is included

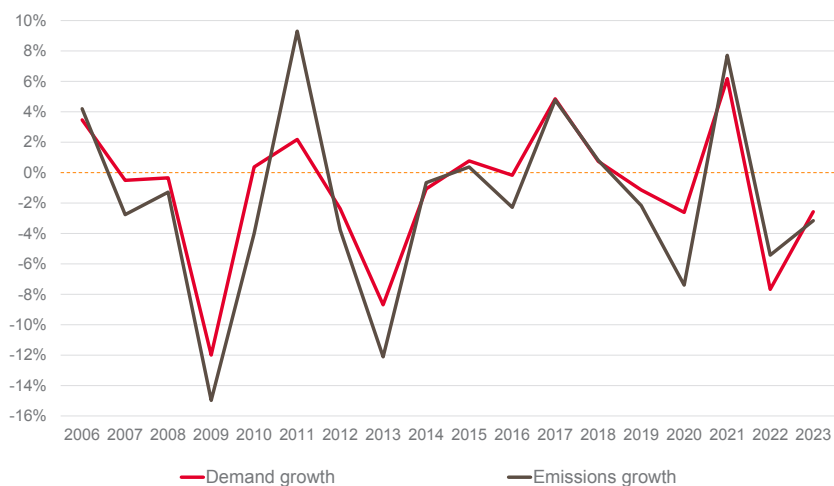
Primary energy demand mix



Electricity generation by source



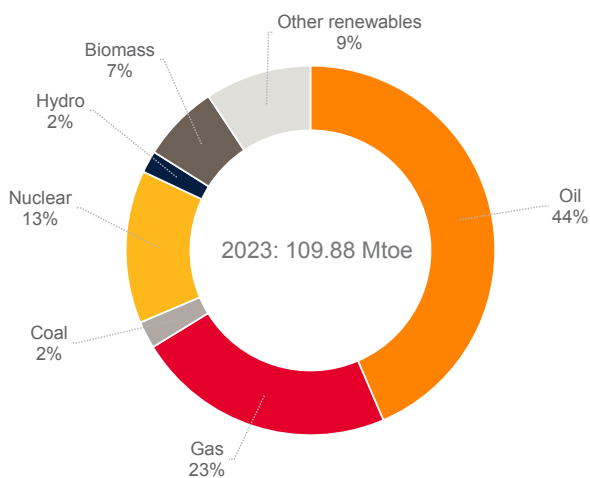
Primary energy demand and CO₂ emissions growth



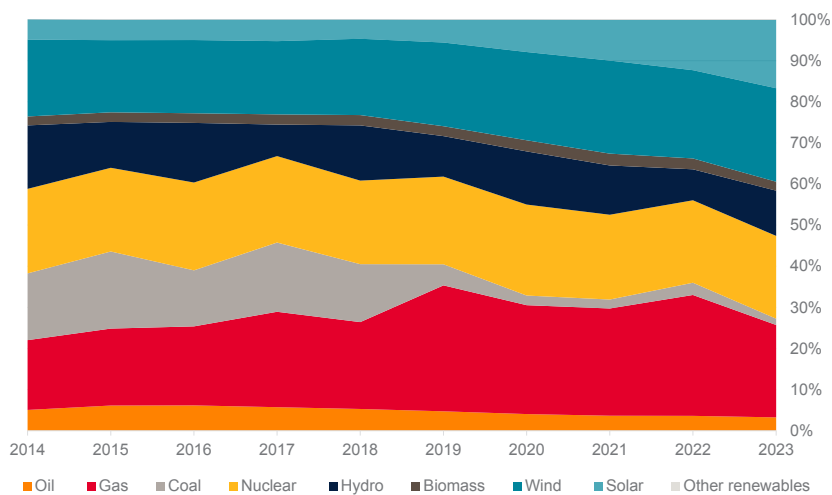
Spain (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	113.4	117.5	117.9	124.1	123.7	120.2	108.4	115.0	114.7	109.9	100.0
Oil	46.5	48.6	49.9	52.6	52.7	51.3	44.1	48.4	50.2	48.2	43.9
Gas	23.7	24.5	25.0	27.3	27.1	30.9	27.9	29.5	28.4	25.1	22.9
Coal	11.4	13.3	10.5	12.8	11.3	5.0	2.9	3.1	3.8	2.6	2.4
Nuclear	14.9	14.9	15.3	15.1	14.5	15.2	15.2	14.7	15.3	14.8	13.5
Hydro	3.4	2.4	3.1	1.6	3.0	2.1	2.6	2.5	1.5	2.1	1.9
Biomass	7.2	7.2	6.9	7.3	7.8	7.8	7.6	7.8	7.8	7.5	6.8
Other renewables	6.4	6.2	6.2	6.3	6.2	6.9	7.4	8.4	9.1	10.3	9.4
Electricity balance of trade*	-0.1	0.3	0.9	1.1	1.3	0.9	0.6	0.4	-1.3	-0.8	-0.7
Total final consumption, by source	79.8	80.7	82.8	84.9	87.0	86.7	77.8	83.7	82.4	81.3	100.0
Oil	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.8	42.9	41.6	51.2
Gas	14.7	13.3	13.8	14.0	14.7	14.9	14.2	15.3	13.0	13.7	16.9
Coal	1.4	1.4	1.3	1.6	1.5	1.3	1.1	1.3	1.3	1.2	1.4
Electricity	19.5	19.9	20.0	20.5	20.5	20.1	18.9	19.6	19.3	18.8	23.1
Heat	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Biomass	5.0	5.2	5.0	5.3	5.7	5.8	5.4	5.4	5.5	5.6	6.9
Electricity generation, by source	24.0	24.2	23.6	23.7	23.6	23.5	22.7	23.6	25.2	24.3	100.0
Oil	1.2	1.5	1.5	1.4	1.2	1.1	0.9	0.9	0.9	0.8	3.2
Gas	4.1	4.5	4.5	5.5	5.0	7.2	6.0	6.1	7.4	5.5	22.5
Coal	3.9	4.5	3.2	4.0	3.3	1.2	0.5	0.5	0.7	0.4	1.5
Nuclear	4.9	4.9	5.0	5.0	4.8	5.0	5.0	4.9	5.0	4.9	20.1
Hydro	3.7	2.7	3.4	1.8	3.2	2.3	2.9	2.8	1.9	2.7	11.0
Biomass	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.5	2.2
Wind	4.5	4.2	4.2	4.2	4.4	4.8	4.9	5.3	5.4	5.5	22.7
Solar	1.2	1.2	1.2	1.2	1.1	1.3	1.8	2.3	3.1	4.0	16.6
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	79.8	80.7	82.8	84.9	87.0	86.7	77.8	83.7	82.4	81.3	100.0
Industry	20.1	19.4	20.5	21.2	21.3	21.2	19.3	20.8	18.4	18.4	22.7
Transport	28.5	29.4	30.6	31.7	32.5	32.9	26.1	30.3	32.4	32.5	40.0
Residential/Commercial	23.9	24.7	23.9	24.2	25.0	24.3	23.5	24.0	23.4	23.3	28.7
Oil final consumption, by sector	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.8	42.9	41.6	100.0
Industry	2.6	2.7	2.9	2.9	3.0	2.9	2.5	2.3	2.1	2.0	4.9
Transport	27.1	28.0	29.1	30.0	30.4	30.8	24.2	28.4	30.5	30.5	73.3
Residential/Commercial	3.9	4.1	4.0	3.9	4.1	3.6	3.5	3.6	3.6	3.4	8.2
Natural gas final consumption, by sector	14.7	13.3	13.8	14.0	14.7	14.9	14.2	15.3	13.0	13.7	100.0
Industry	8.8	7.4	7.9	8.1	8.4	8.6	8.1	8.8	7.1	7.3	53.1
Transport	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	1.9
Residential/Commercial	4.5	5.1	5.1	5.2	5.6	5.4	5.4	5.7	5.0	5.4	39.4
Refined products consumption	38.9	40.6	42.4	43.3	44.3	44.3	37.9	41.8	42.9	41.6	100.0
Gasoline	4.6	4.6	4.8	4.9	5.1	5.5	4.3	5.4	5.9	6.2	15.0
Diesel	25.7	27.1	27.6	28.1	28.4	28.1	24.4	26.9	27.1	26.0	62.5
Heating Oil	0.6	0.5	0.6	0.9	0.9	0.9	0.6	0.6	0.7	0.6	1.5
Aviation Jet	1.8	1.9	2.0	2.2	2.3	2.4	1.0	1.7	2.5	2.8	6.8
LPG	1.9	2.1	2.8	2.6	3.0	2.7	2.4	2.0	2.2	2.4	5.7
Imports	112.5	112.8	114.7	120.6	119.8	121.1	103.4	110.0	118.5	112.5	100.0
Oil	80.8	84.7	86.5	90.5	89.5	88.8	75.1	77.9	83.9	82.0	72.8
Gas	31.7	28.2	28.2	30.1	30.3	32.4	28.3	32.2	34.5	30.6	27.2
Gasoline	0.1	0.1	0.2	0.4	0.5	1.5	1.1	0.5	0.8	0.6	0.6
Diesel	3.9	4.8	4.9	5.2	4.9	5.1	6.0	6.8	5.1	5.8	5.2
Heating Oil	5.4	4.3	5.9	6.8	7.1	6.6	3.8	4.0	6.0	5.1	4.5
Aviation Jet	2.1	2.3	2.3	2.4	1.9	1.8	1.3	0.7	1.6	1.6	1.4
LPG	0.7	0.9	1.6	1.5	1.5	1.4	1.1	0.8	1.2	1.2	1.0
Exports	29.0	27.8	28.8	30.5	28.6	25.3	24.5	25.5	26.1	27.7	100.0
Oil	21.9	23.4	25.3	28.0	25.7	24.3	23.4	22.9	20.8	21.9	79.0
Gas	7.2	4.4	3.5	2.5	2.8	1.0	1.0	2.6	5.3	5.8	21.0
Gasoline	3.5	5.0	4.7	4.8	4.6	5.0	4.6	4.8	4.3	4.1	14.7
Diesel	5.2	5.5	5.5	6.7	6.3	6.1	7.3	6.5	5.1	5.5	19.9
Heating Oil	2.9	2.2	2.9	3.5	3.6	2.6	2.4	2.1	2.0	2.2	7.9
Aviation Jet	0.4	0.5	0.7	0.6	0.6	0.4	0.5	0.8	0.4	0.6	2.0
LPG	0.5	0.4	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.5	2.0
CO₂ Emissions (Million tons CO₂)	240.6	256.3	248.2	263.9	259.1	240.2	200.8	217.7	223.7	205.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	154.1	158.0	148.5	153.4	147.2	133.8	126.2	129.6	126.3	113.0	-
Final energy intensity (toe/million \$15ppp)	48.4	47.1	46.6	46.5	46.4	45.3	45.3	46.6	43.7	42.4	-
Total energy intensity (toe/million \$15ppp)	72.6	72.4	70.6	72.1	70.3	67.0	68.1	68.5	64.7	60.5	-

*Heat is included

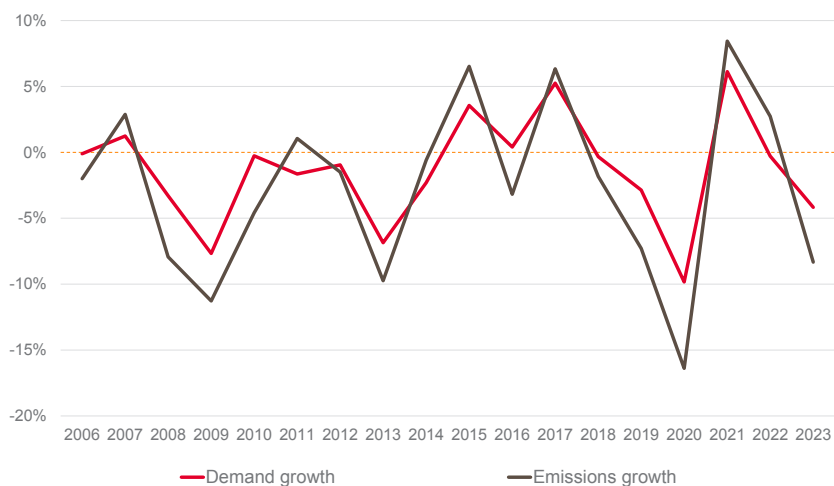
Primary energy demand mix



Electricity generation by source



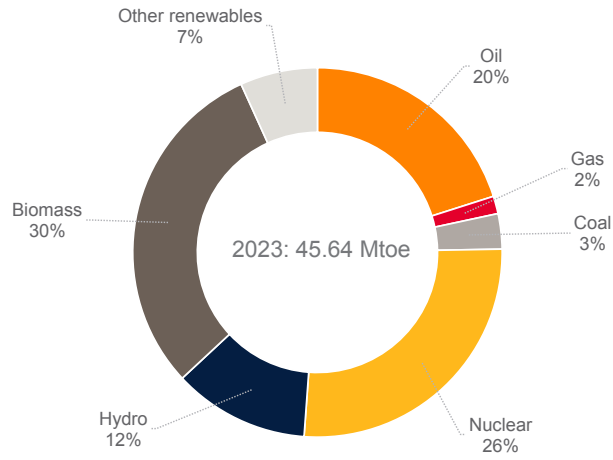
Primary energy demand and CO₂ emissions growth



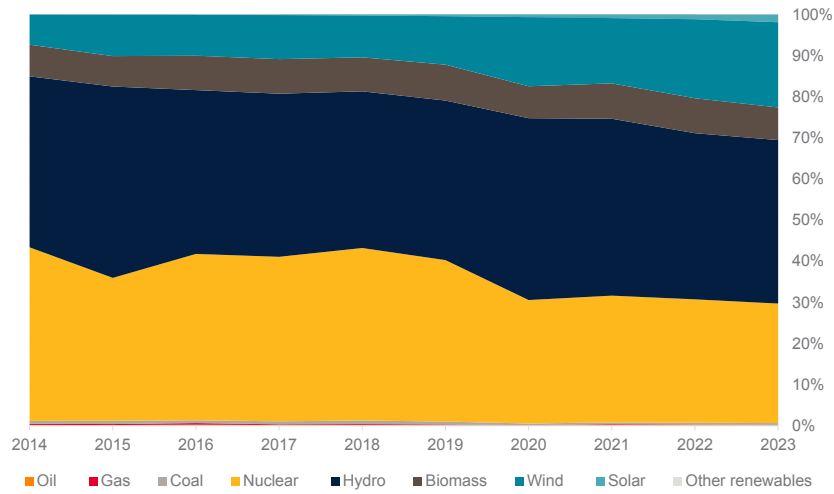
Sweden (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	47.8	44.1	47.5	48.8	49.8	48.6	44.0	46.9	44.7	45.6	100.0
Oil	11.4	8.6	10.0	9.8	10.7	9.9	8.4	9.1	8.7	9.6	21.0
Gas	0.8	0.7	0.8	0.9	1.0	1.0	1.3	1.0	0.6	0.7	1.6
Coal	2.1	2.1	2.1	2.0	2.2	2.0	1.6	1.7	1.5	1.5	3.2
Nuclear	16.9	14.7	16.4	17.1	17.9	17.2	12.8	13.8	13.5	12.6	27.7
Hydro	5.5	6.5	5.3	5.6	5.4	5.6	6.2	6.4	6.0	5.7	12.5
Biomass	11.3	11.8	12.3	13.2	12.5	13.2	13.1	14.4	13.9	14.4	31.5
Other renewables	1.0	1.4	1.3	1.5	1.5	1.8	2.5	2.5	3.0	3.2	7.1
Electricity balance of trade*	-1.1	-1.7	-0.8	-1.4	-1.3	-2.1	-1.9	-2.0	-2.7	-2.1	-4.6
Total final consumption, by source	32.4	32.8	33.6	33.9	33.2	33.0	32.0	33.5	31.9	33.0	100.0
Oil	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.3	7.6	23.1
Gas	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.7	0.7	2.1
Coal	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.2	1.2	1.2	3.6
Electricity	10.5	10.7	11.0	10.9	11.0	10.7	10.6	11.0	10.6	10.4	31.6
Heat	4.2	4.2	4.4	4.4	4.4	4.3	4.1	4.7	4.4	4.5	13.7
Biomass	6.1	6.4	6.7	6.9	6.9	6.9	7.4	7.4	7.7	8.6	26.0
Electricity generation, by source	13.2	13.9	13.4	14.1	14.1	14.5	14.1	14.8	14.9	14.3	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	0.0	0.0	0.1	0.0	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	5.6	4.8	5.4	5.6	5.9	5.7	4.2	4.6	4.5	4.2	29.1
Hydro	5.5	6.5	5.3	5.6	5.4	5.6	6.2	6.4	6.0	5.7	39.8
Biomass	1.0	1.0	1.1	1.2	1.2	1.3	1.1	1.3	1.3	1.1	7.9
Wind	1.0	1.4	1.3	1.5	1.4	1.7	2.4	2.3	2.9	3.0	20.7
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	1.9
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	32.4	32.8	33.6	33.9	33.2	33.0	32.0	33.5	31.9	33.0	100.0
Industry	11.5	11.7	11.6	11.7	11.6	11.5	11.7	11.7	11.7	12.3	37.4
Transport	7.3	7.5	7.5	7.7	7.5	7.4	6.9	7.1	6.9	7.1	21.4
Residential/Commercial	11.0	11.2	11.6	11.5	11.4	11.2	11.0	11.9	11.1	11.2	34.1
Oil final consumption, by sector	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.3	7.6	100.0
Industry	1.0	0.9	1.0	1.0	1.0	0.9	0.8	0.9	0.9	0.8	10.5
Transport	6.2	6.3	6.0	5.9	5.6	5.6	5.1	5.2	4.7	4.9	64.1
Residential/Commercial	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	2.8
Natural gas final consumption, by sector	0.6	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.7	0.7	100.0
Industry	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	52.9
Transport	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	18.2
Refined products consumption	9.8	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.3	7.6	100.0
Gasoline	2.7	2.6	2.5	2.4	2.2	2.2	2.0	2.0	1.9	1.9	25.0
Diesel	4.3	4.4	4.2	4.2	4.0	4.0	3.9	3.9	3.4	3.6	48.0
Heating Oil	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	2.4
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	1.3
LPG	1.0	1.0	1.2	1.1	0.9	1.0	0.9	1.0	0.8	0.9	12.5
Imports	27.8	29.1	31.8	30.5	30.6	26.2	27.8	26.7	27.8	27.1	100.0
Oil	27.1	28.4	31.0	29.6	29.6	25.3	26.5	25.7	27.2	26.4	97.3
Gas	0.8	0.7	0.8	0.9	1.0	1.0	1.3	1.1	0.7	0.7	2.7
Gasoline	1.9	1.8	2.0	1.6	0.8	0.6	0.9	0.9	0.9	0.9	3.3
Diesel	2.4	2.6	3.1	2.9	2.3	2.6	3.4	2.7	3.0	3.1	11.4
Heating Oil	0.4	0.7	2.0	1.6	1.8	0.8	0.8	0.6	0.5	0.6	2.3
Aviation Jet	0.9	0.8	1.0	1.0	1.1	1.0	0.7	0.2	0.7	0.7	2.6
LPG	1.2	1.1	1.5	1.3	1.2	1.4	1.2	1.2	1.6	2.0	7.3
Exports	12.9	15.5	17.2	18.3	17.4	11.8	13.5	17.1	15.3	15.1	100.0
Oil	12.9	15.5	17.2	18.3	17.4	11.8	13.5	17.0	15.3	15.1	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	3.7	4.1	3.8	4.0	3.8	2.0	2.7	3.9	3.8	4.0	26.3
Diesel	4.9	5.6	5.4	7.0	6.4	3.9	4.5	6.7	5.6	5.7	37.9
Heating Oil	1.8	2.8	4.5	4.1	4.3	3.2	3.0	2.7	3.0	2.6	17.1
Aviation Jet	0.1	0.0	0.1	0.0	0.1	0.2	0.0	0.2	0.1	0.0	0.3
LPG	0.4	0.6	0.8	0.7	0.6	0.8	0.7	0.9	1.2	1.3	8.4
CO₂ Emissions (Million tons CO₂)	39.3	39.0	39.1	39.0	36.4	35.7	34.2	36.9	33.6	34.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	85.4	81.1	79.6	77.4	70.8	68.1	66.8	68.3	60.6	61.8	-
Final energy intensity (toe/million \$15ppp)	66.2	64.5	63.9	62.4	60.5	58.6	59.0	58.1	54.8	56.6	-
Total energy intensity (toe/million \$15ppp)	103.8	91.6	96.7	96.9	97.0	92.8	85.8	86.8	80.6	82.5	-

*Heat is included

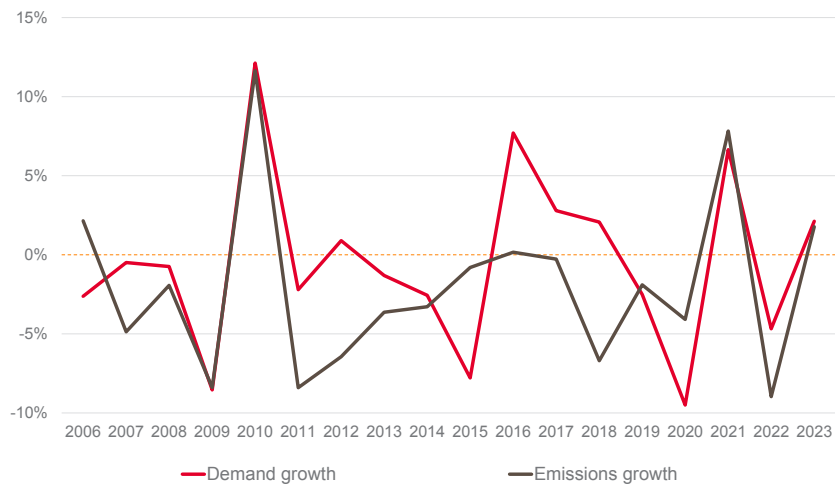
Primary energy demand mix



Electricity generation by source



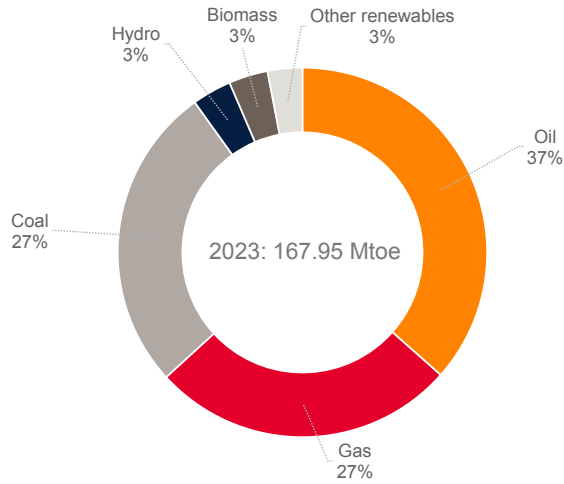
Primary energy demand and CO₂ emissions growth



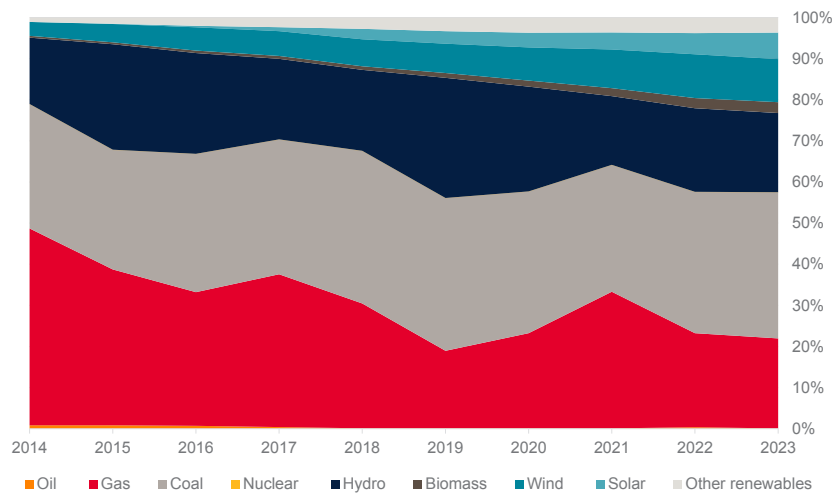
Turkey (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	132.2	145.1	152.9	164.0	162.9	163.1	159.1	172.0	168.9	168.0	100.0
Oil	45.9	52.5	58.6	61.8	58.4	57.2	51.6	54.0	54.3	56.8	33.8
Gas	40.2	39.4	38.3	44.2	41.0	37.0	39.7	49.1	42.0	41.4	24.7
Coal	33.5	37.2	38.4	40.1	43.4	44.7	42.8	43.7	44.6	41.8	24.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8	5.7	5.4	3.2
Biomass	3.5	3.2	3.1	3.0	3.2	3.4	3.8	4.4	5.1	5.3	3.2
Other renewables	0.7	1.0	1.4	1.8	2.4	2.7	3.1	3.9	4.5	4.7	2.8
Electricity balance of trade*	4.8	6.1	7.3	8.0	9.2	10.5	11.5	12.0	12.7	12.6	7.5
Total final consumption, by source	96.7	102.2	110.0	117.8	116.3	115.2	118.5	126.4	124.6	126.1	100.0
Oil	38.9	41.2	47.4	50.4	50.2	48.1	48.2	49.7	50.5	53.6	42.5
Gas	19.3	21.2	21.5	24.8	24.6	25.6	26.5	29.7	29.5	29.6	23.5
Coal	14.0	14.8	15.2	15.3	13.2	13.3	15.0	16.1	13.8	12.2	9.7
Electricity	17.7	18.4	19.6	21.1	21.9	21.8	22.2	24.3	24.3	24.0	19.0
Heat	3.5	3.7	3.6	3.7	3.8	3.8	3.9	3.9	3.7	3.7	2.9
Biomass	3.3	2.9	2.7	2.5	2.5	2.5	2.6	2.7	2.9	3.0	2.4
Electricity generation, by source	21.7	22.5	23.6	25.6	26.2	26.1	26.4	28.8	28.2	27.8	100.0
Oil	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Gas	10.4	8.5	7.7	9.5	8.0	4.9	6.1	9.6	6.5	6.1	21.9
Coal	6.6	6.6	7.9	8.4	9.7	9.7	9.1	8.9	9.7	9.9	35.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.5	5.8	5.8	5.0	5.2	7.6	6.7	4.8	5.7	5.4	19.2
Biomass	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.7	2.6
Wind	0.7	1.0	1.3	1.5	1.7	1.9	2.1	2.7	3.0	2.9	10.5
Solar	0.0	0.0	0.1	0.2	0.7	0.8	0.9	1.2	1.5	1.8	6.5
Other renewables	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.0	1.1	1.0	3.6
Total final consumption, by sector	96.7	102.2	110.0	117.8	116.3	115.2	118.5	126.4	124.6	126.1	100.0
Industry	27.8	28.9	29.0	35.2	35.4	33.4	35.5	39.7	36.3	33.0	26.2
Transport	26.8	28.9	34.7	36.3	37.1	34.7	32.8	36.7	37.9	40.9	32.4
Residential/Commercial	30.4	32.6	33.3	35.9	33.3	35.7	37.2	38.2	39.5	41.3	32.7
Oil final consumption, by sector	38.9	41.2	47.4	50.4	50.2	48.1	48.2	49.7	50.5	53.6	100.0
Industry	1.0	1.1	1.0	4.5	4.5	3.5	4.2	3.4	3.7	3.8	7.0
Transport	26.5	28.6	34.5	36.1	36.8	34.4	32.5	36.4	37.5	40.6	75.7
Residential/Commercial	1.0	1.0	0.9	1.2	1.0	1.0	0.9	0.9	0.8	0.8	1.4
Natural gas final consumption, by sector	19.3	21.2	21.5	24.8	24.6	25.6	26.5	29.7	29.5	29.6	100.0
Industry	8.8	9.0	8.6	10.3	9.7	9.2	9.3	11.0	9.1	7.8	26.2
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	10.1	11.7	12.1	13.9	13.7	15.7	16.4	17.7	19.7	21.1	71.5
Refined products consumption	38.9	41.2	47.4	50.4	50.2	48.1	48.2	49.7	50.5	53.6	100.0
Gasoline	3.3	3.4	3.7	3.8	3.6	3.6	3.6	4.5	4.9	6.2	11.6
Diesel	23.6	23.7	29.0	31.2	31.7	29.3	28.8	31.2	31.7	32.7	61.0
Heating Oil	0.5	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3
Aviation Jet	1.6	1.9	2.2	2.0	2.0	1.8	1.0	1.4	1.7	2.0	3.8
LPG	4.2	4.4	4.7	4.6	4.7	4.7	4.4	4.4	4.4	5.0	9.3
Imports	97.0	106.6	108.2	119.3	109.0	107.6	99.0	111.2	112.7	112.9	100.0
Oil	56.4	66.7	70.0	73.8	67.6	70.4	59.4	62.9	67.7	71.3	63.2
Gas	40.6	39.9	38.2	45.5	41.4	37.2	39.6	48.3	45.0	41.6	36.8
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Diesel	17.4	14.9	17.4	19.5	20.5	14.2	11.3	13.6	13.6	17.6	15.6
Heating Oil	1.1	1.6	1.7	2.1	2.4	2.0	2.0	1.6	2.3	2.7	2.4
Aviation Jet	1.4	0.3	0.6	0.3	0.8	0.5	0.2	0.3	0.7	1.1	0.9
LPG	3.5	3.8	3.8	3.8	3.7	3.5	3.4	3.5	3.6	4.4	3.9
Exports	9.9	10.6	9.5	9.9	7.2	11.6	10.2	9.5	12.3	13.7	100.0
Oil	9.4	10.1	8.9	9.3	6.7	10.9	9.7	9.2	11.8	13.0	94.7
Gas	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.3	0.5	0.7	5.3
Gasoline	3.6	5.2	5.0	5.5	4.0	4.7	3.0	2.7	3.1	1.6	11.8
Diesel	0.1	0.1	0.1	0.3	0.2	1.8	3.3	3.0	3.1	3.8	27.6
Heating Oil	2.6	2.5	1.6	1.5	1.1	2.1	0.2	1.2	1.5	1.2	8.9
Aviation Jet	1.6	0.4	0.3	0.5	0.2	1.1	0.9	0.1	0.4	1.4	10.0
LPG	0.1	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.5	0.5	3.4
CO₂ Emissions (Million tons CO₂)	344.4	352.4	381.5	423.2	421.6	405.7	405.1	440.6	445.7	440.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	180.6	174.3	182.6	188.4	182.3	174.0	170.5	166.5	159.5	150.8	-
Final energy intensity (toe/million \$15ppp)	47.6	46.8	48.7	50.2	48.2	46.9	46.8	45.5	42.8	41.5	-
Total energy intensity (toe/million \$15ppp)	69.3	71.8	73.2	73.0	70.4	70.0	67.0	65.0	60.5	57.5	-

*Heat is included

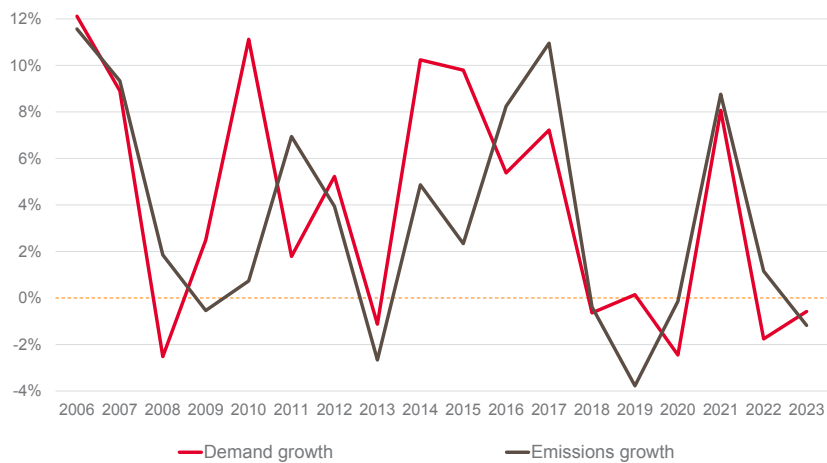
Primary energy demand mix



Electricity generation by source



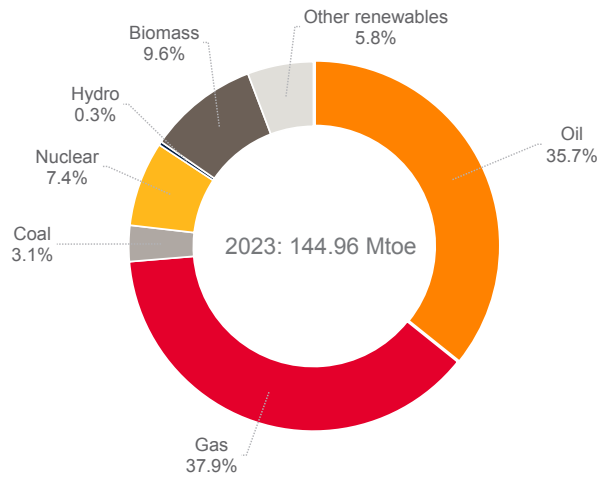
Primary energy demand and CO₂ emissions growth



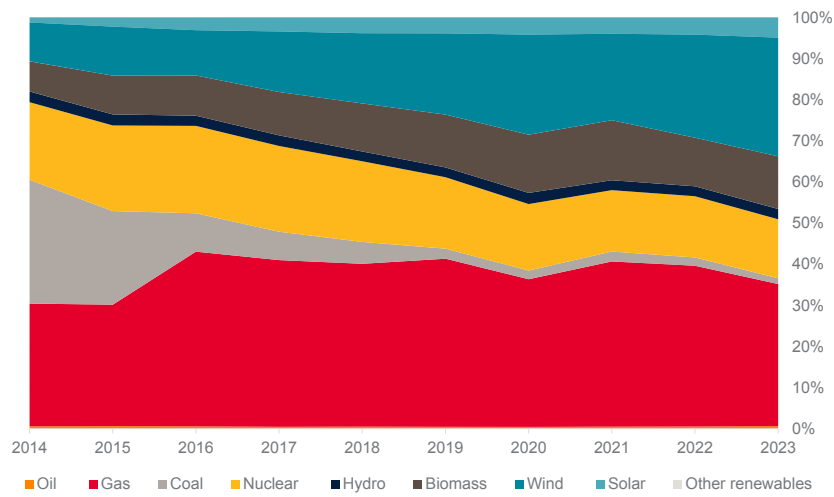
United Kingdom (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	180.2	181.6	178.2	175.5	173.6	167.1	153.3	158.8	152.5	145.0	100.0
Oil	57.3	59.2	60.3	60.7	59.8	57.8	48.5	51.3	51.7	51.1	35.2
Gas	59.9	62.0	69.5	67.6	67.1	66.2	62.5	66.3	61.0	54.2	37.4
Coal	32.3	25.6	12.6	10.2	8.6	6.0	5.4	5.7	5.1	4.5	3.1
Nuclear	16.6	18.3	18.7	18.3	17.0	14.6	13.1	12.0	12.4	10.6	7.3
Hydro	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.3
Biomass	8.6	10.0	10.9	11.5	13.1	13.6	14.0	14.4	14.1	13.8	9.5
Other renewables	3.1	4.1	4.1	5.3	6.0	6.6	7.6	6.6	8.1	8.2	5.7
Electricity balance of trade*	1.8	1.9	1.6	1.3	1.7	1.9	1.6	2.2	-0.4	2.1	1.4
Total final consumption, by source	121.7	124.9	127.2	126.7	127.1	124.8	114.1	119.4	113.0	109.1	100.0
Oil	52.0	54.0	55.5	56.2	55.1	53.4	44.9	47.1	47.3	46.6	42.7
Gas	36.8	38.1	39.1	38.3	39.2	38.5	37.7	40.5	34.8	32.7	30.0
Coal	3.0	2.8	2.5	2.2	2.1	2.1	2.0	1.9	1.8	1.4	1.3
Electricity	26.0	26.0	26.0	25.6	25.7	25.4	24.1	24.6	23.3	22.6	20.7
Heat	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2
Biomass	2.7	2.7	2.8	3.0	3.6	4.0	4.1	4.1	4.5	4.6	4.2
Electricity generation, by source	29.0	29.1	29.0	29.0	28.6	27.8	26.7	26.4	27.5	24.4	100.0
Oil	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6
Gas	8.7	8.6	12.3	11.8	11.3	11.4	9.6	10.6	10.8	8.4	34.6
Coal	8.7	6.6	2.7	2.0	1.5	0.7	0.6	0.6	0.5	0.3	1.4
Nuclear	5.5	6.0	6.2	6.0	5.6	4.8	4.3	3.9	4.1	3.5	14.3
Hydro	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.7	0.6	2.5
Biomass	2.1	2.7	2.8	3.1	3.3	3.6	3.8	3.9	3.3	3.1	12.8
Wind	2.7	3.5	3.2	4.3	4.9	5.5	6.5	5.6	6.9	7.1	28.9
Solar	0.3	0.6	0.9	1.0	1.1	1.1	1.1	1.0	1.1	1.2	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	121.7	124.9	127.2	126.7	127.1	124.8	114.1	119.4	113.0	109.1	100.0
Industry	23.0	23.1	21.4	21.7	21.9	21.7	20.6	21.6	20.3	19.5	17.9
Transport	39.7	40.5	41.4	41.6	41.4	41.2	33.1	36.2	37.5	37.4	34.3
Residential/Commercial	50.9	52.7	54.7	53.4	54.3	52.9	52.1	54.7	47.9	45.4	41.6
Oil final consumption, by sector	52.0	54.0	55.5	56.2	55.1	53.4	44.9	47.1	47.3	46.6	100.0
Industry	3.6	3.8	2.1	2.4	2.4	2.0	2.0	2.4	2.4	2.4	5.1
Transport	38.2	39.2	40.1	40.2	39.7	39.0	31.1	34.3	35.0	34.7	74.4
Residential/Commercial	3.3	3.5	4.6	4.5	4.6	4.4	4.4	4.3	4.3	4.3	9.2
Natural gas final consumption, by sector	36.8	38.1	39.1	38.3	39.2	38.5	37.7	40.5	34.8	32.7	100.0
Industry	7.8	7.6	7.8	8.0	8.1	8.2	7.7	8.3	7.7	7.3	22.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	28.5	30.1	30.9	29.9	30.7	29.9	29.5	31.7	25.9	24.2	73.9
Refined products consumption	52.0	54.0	55.5	56.2	55.1	53.4	44.9	47.1	47.3	46.6	100.0
Gasoline	13.0	12.7	12.6	12.4	12.2	12.3	9.6	10.7	11.5	12.0	25.9
Diesel	27.1	28.7	29.7	30.1	29.9	28.8	23.7	26.6	26.3	25.3	54.3
Heating Oil	0.3	0.3	0.3	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.2
Aviation Jet	0.8	0.8	0.8	0.9	0.9	0.9	0.4	0.4	0.7	0.7	1.5
LPG	2.6	3.1	3.2	3.2	3.2	3.1	2.8	2.7	2.8	2.5	5.3
Imports	121.9	123.3	126.9	130.0	130.1	125.8	102.3	111.7	124.9	116.4	100.0
Oil	85.0	84.9	86.1	90.0	90.1	86.3	65.3	68.3	77.1	78.2	67.2
Gas	36.9	38.3	40.8	40.0	40.0	39.6	37.0	43.4	47.8	38.2	32.8
Gasoline	3.7	4.1	4.1	3.4	3.6	3.1	2.9	2.7	2.8	3.4	2.9
Diesel	13.1	15.1	17.0	15.9	16.5	15.3	11.8	13.9	14.1	13.3	11.4
Heating Oil	1.0	1.0	1.2	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.4
Aviation Jet	8.7	8.8	9.3	9.7	10.0	10.1	5.8	4.7	8.3	10.5	9.0
LPG	0.5	0.8	1.0	1.1	1.1	0.9	0.4	0.8	0.7	0.5	0.5
Exports	63.8	69.7	69.3	72.5	74.8	74.1	67.9	59.8	73.0	61.1	100.0
Oil	54.8	57.9	60.5	62.9	68.4	67.1	59.7	53.9	53.1	47.7	78.1
Gas	9.0	11.9	8.9	9.6	6.4	7.0	8.2	5.9	19.8	13.4	21.9
Gasoline	9.1	10.9	11.7	11.5	10.8	9.9	8.1	8.3	9.5	9.3	15.2
Diesel	5.5	4.7	5.0	3.9	4.4	4.3	4.2	3.7	5.1	3.4	5.6
Heating Oil	4.0	3.2	3.3	2.9	2.4	2.1	2.7	2.5	2.6	2.5	4.0
Aviation Jet	1.1	1.3	1.3	1.3	1.7	1.5	1.3	1.2	1.2	1.5	2.5
LPG	1.0	0.9	1.1	1.2	1.0	1.0	0.5	0.6	0.6	0.5	0.7
CO₂ Emissions (Million tons CO₂)	426.1	409.1	383.7	371.2	361.5	344.5	306.5	324.9	311.6	293.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	157.3	147.5	135.4	127.9	122.4	114.9	114.8	113.1	104.2	98.0	-
Final energy intensity (toe/million \$15ppp)	42.5	42.4	42.1	40.8	40.5	39.2	40.3	39.8	36.2	35.0	-
Total energy intensity (toe/million \$15ppp)	66.5	65.5	62.9	60.4	58.8	55.7	57.4	55.3	51.0	48.4	-

*Heat is included

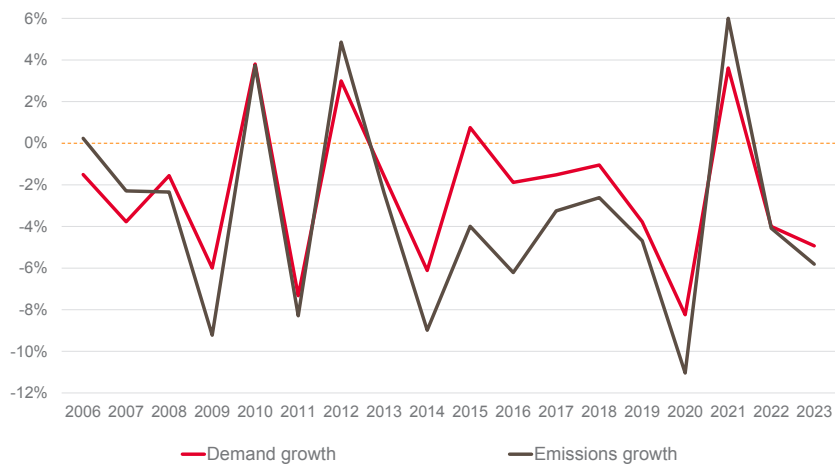
Primary energy demand mix

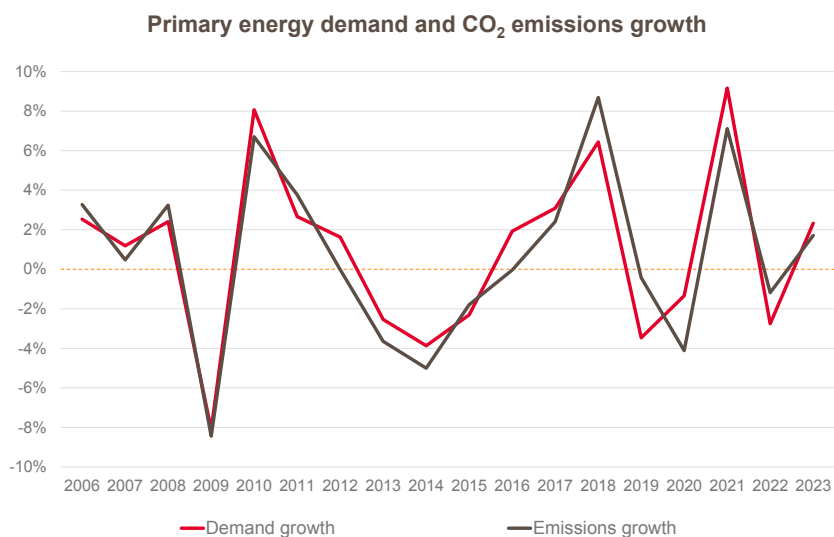
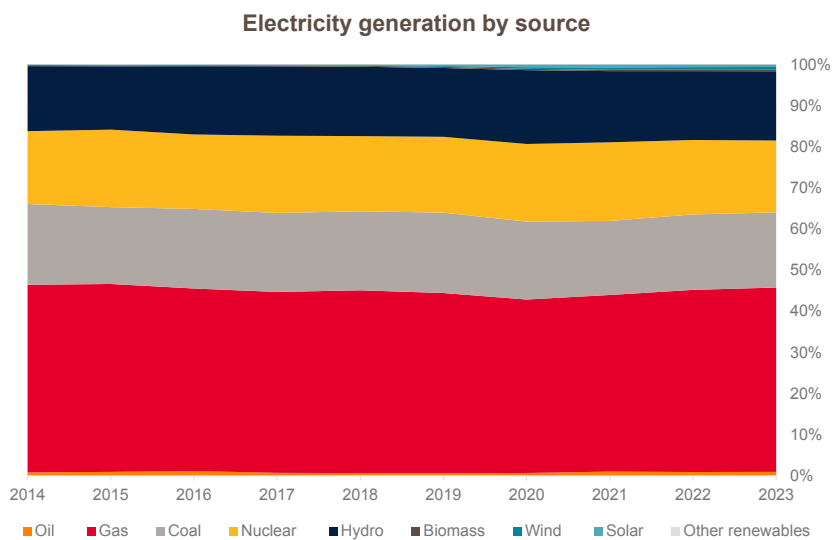
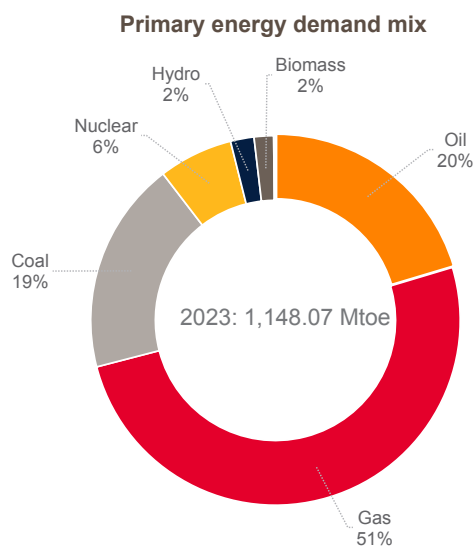


Electricity generation by source

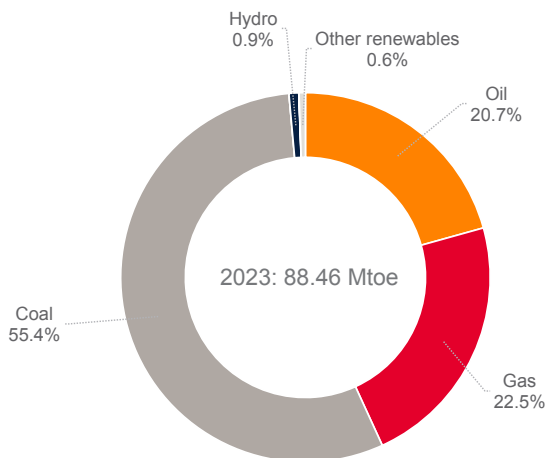


Primary energy demand and CO₂ emissions growth

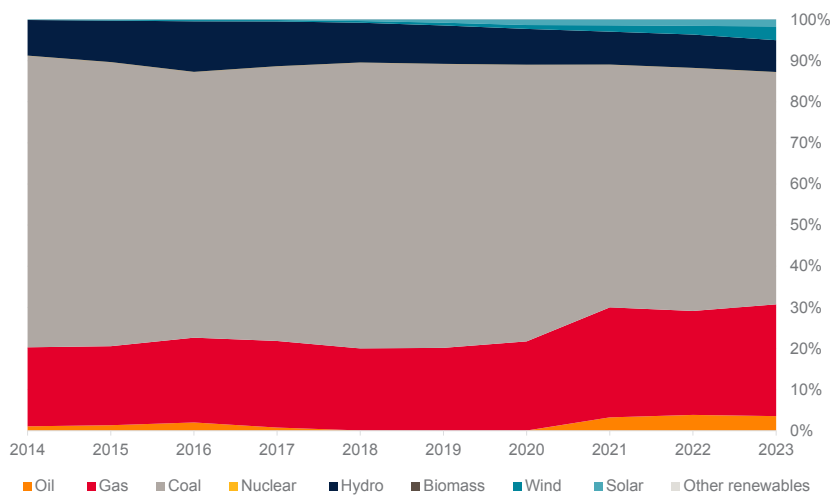




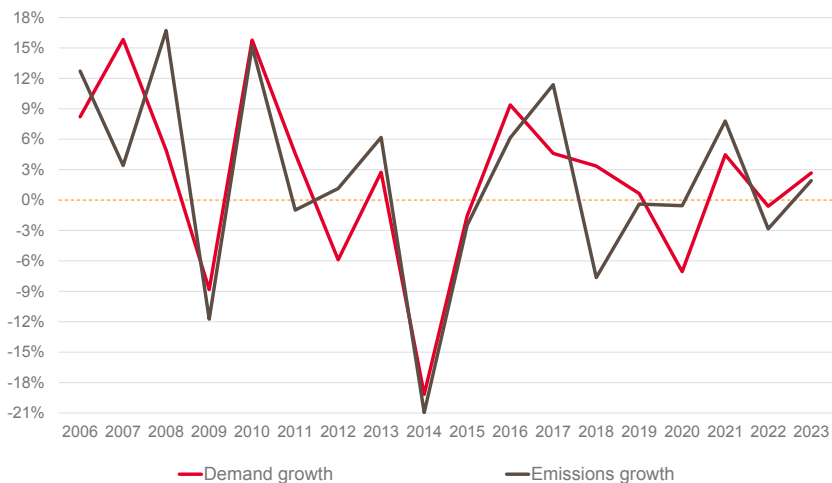
Primary energy demand mix

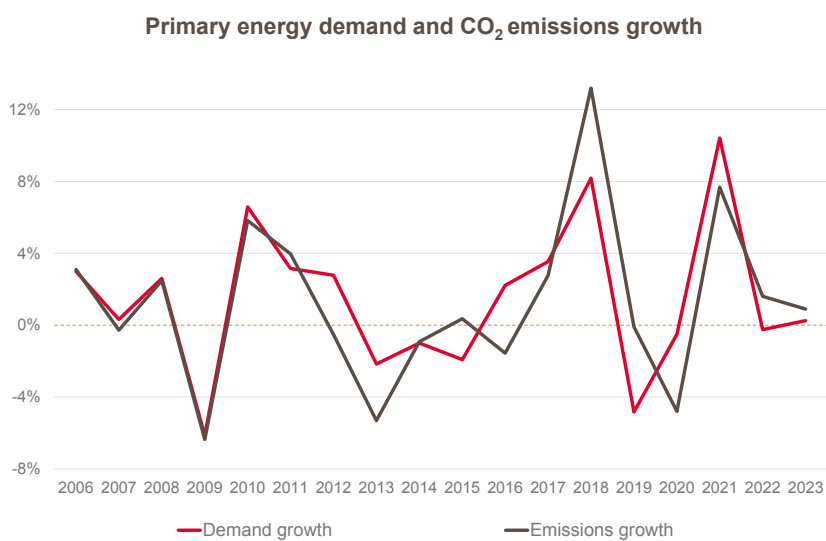
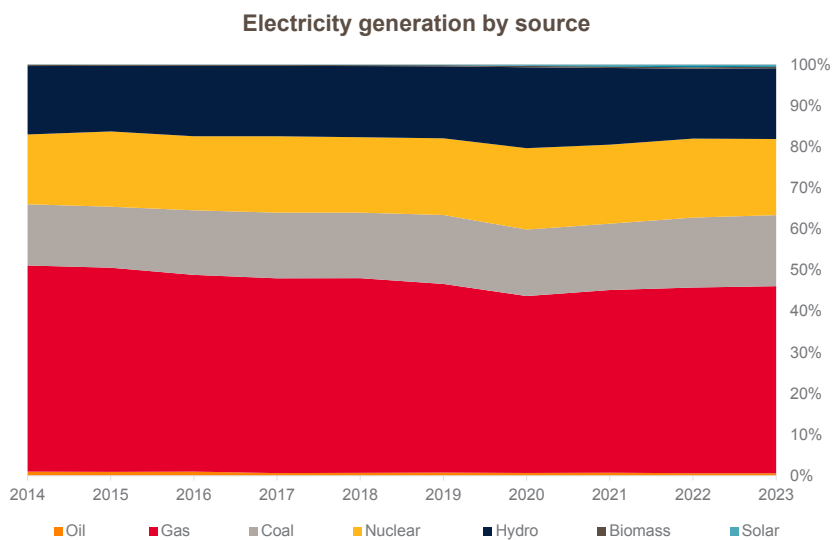
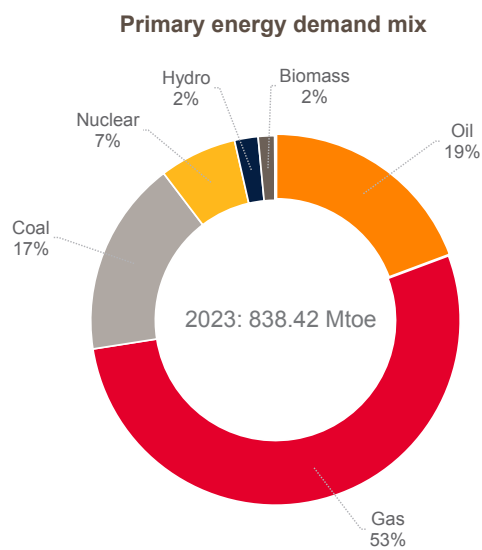


Electricity generation by source

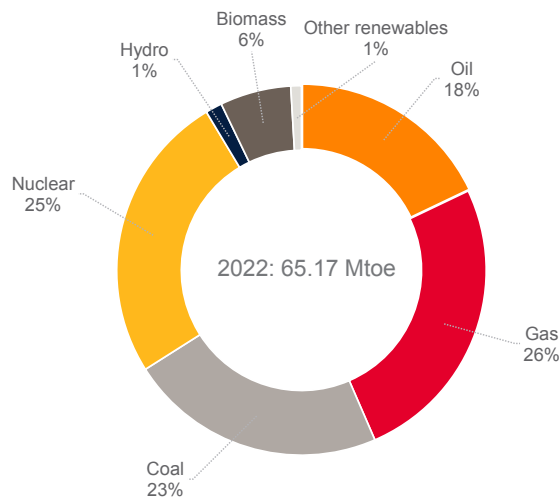


Primary energy demand and CO₂ emissions growth

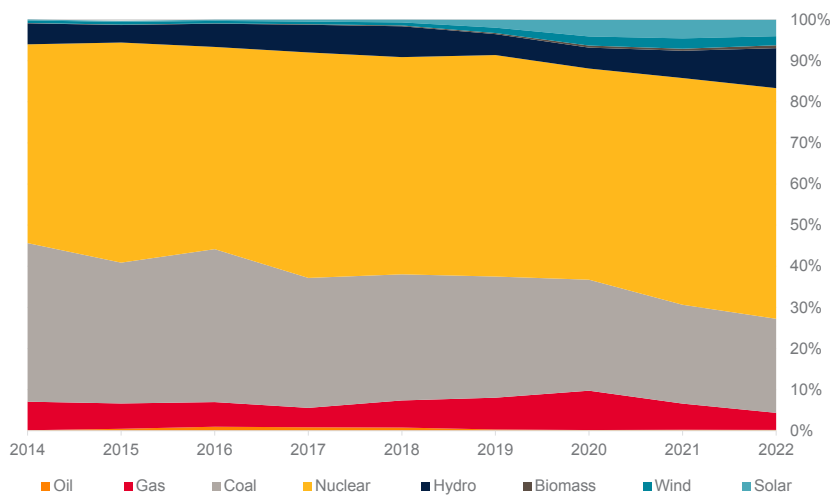




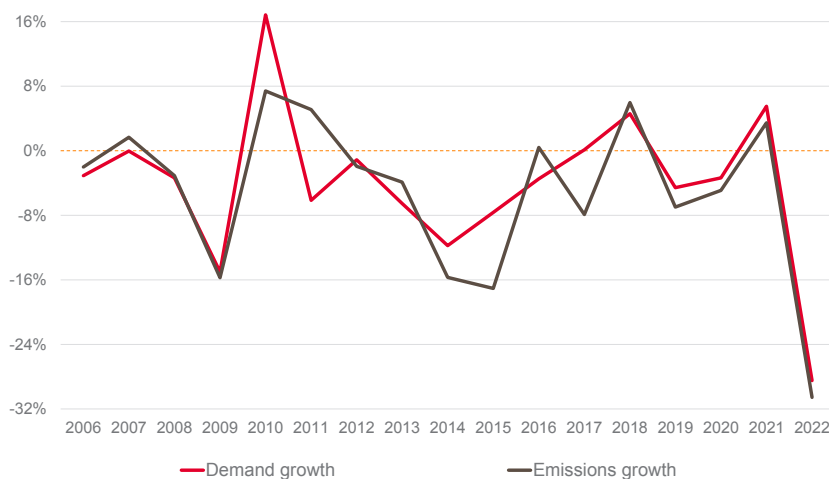
Primary energy demand mix



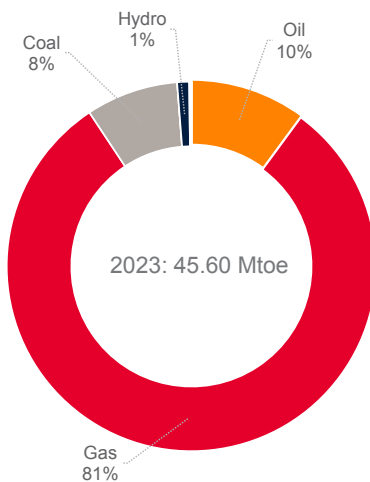
Electricity generation by source



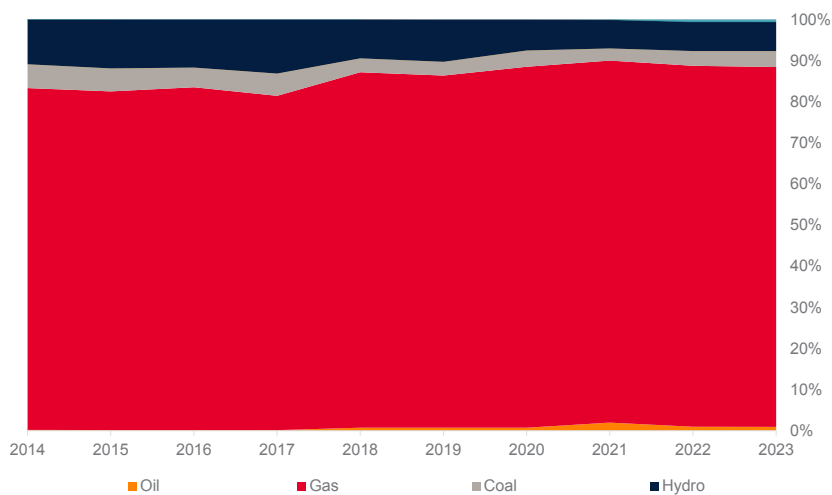
Primary energy demand and CO₂ emissions growth



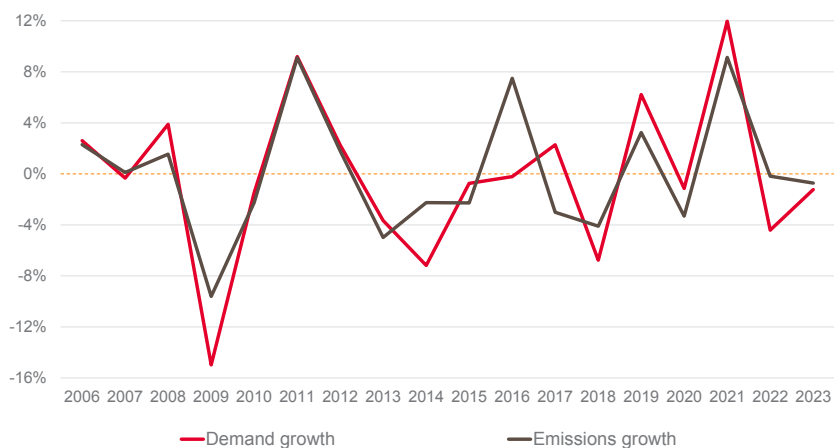
Primary energy demand mix

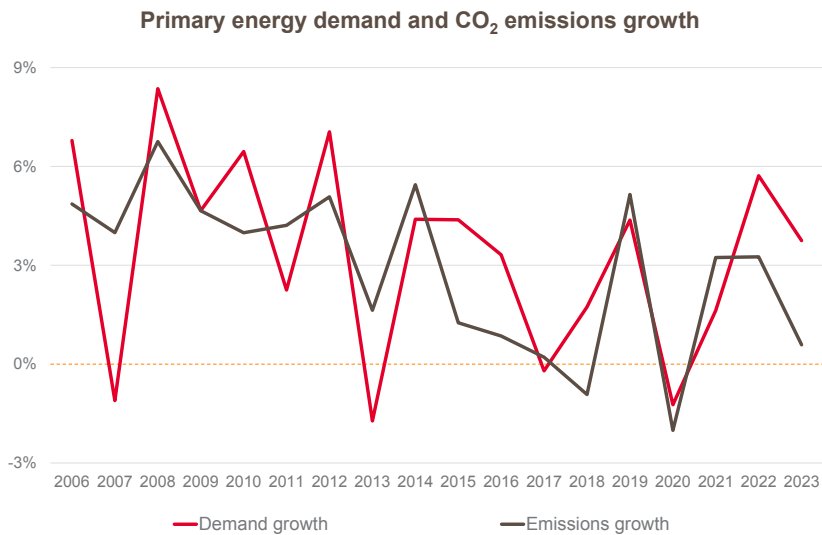
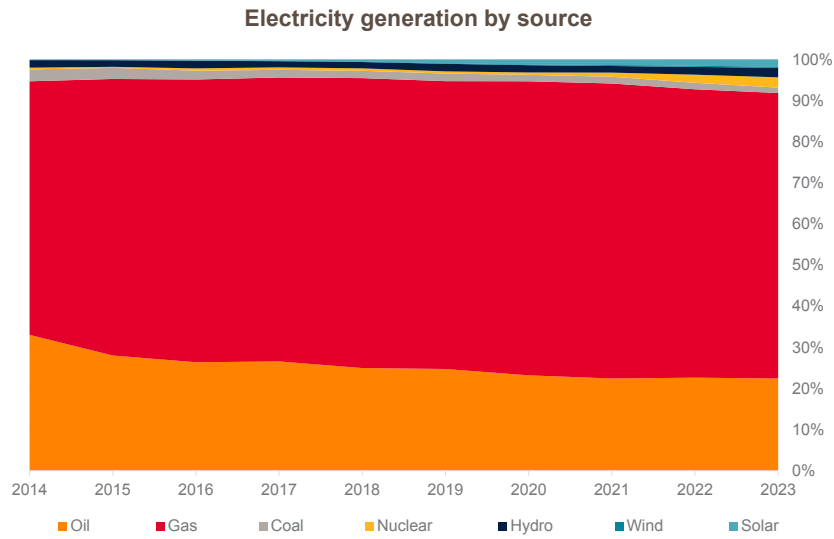
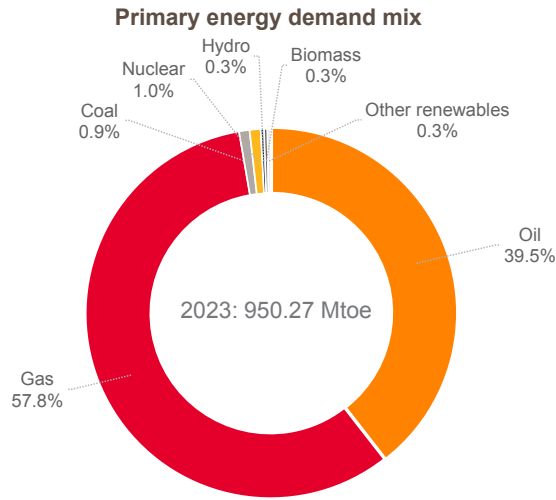


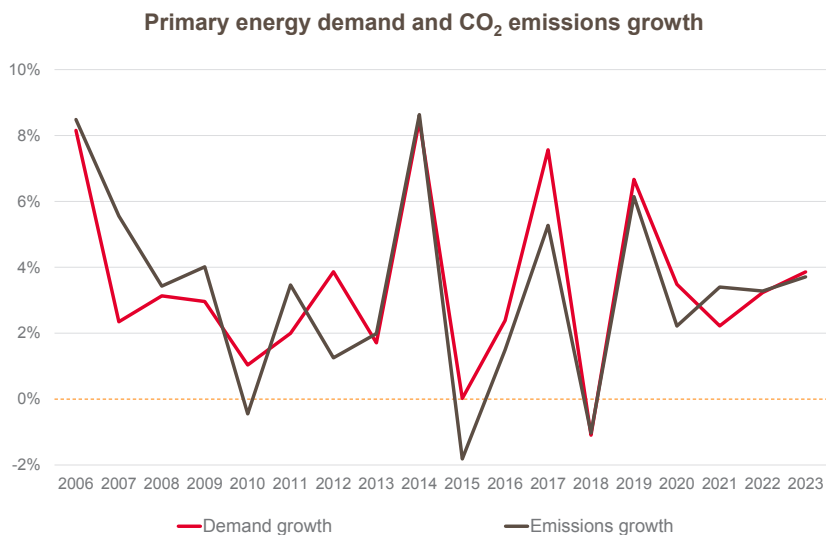
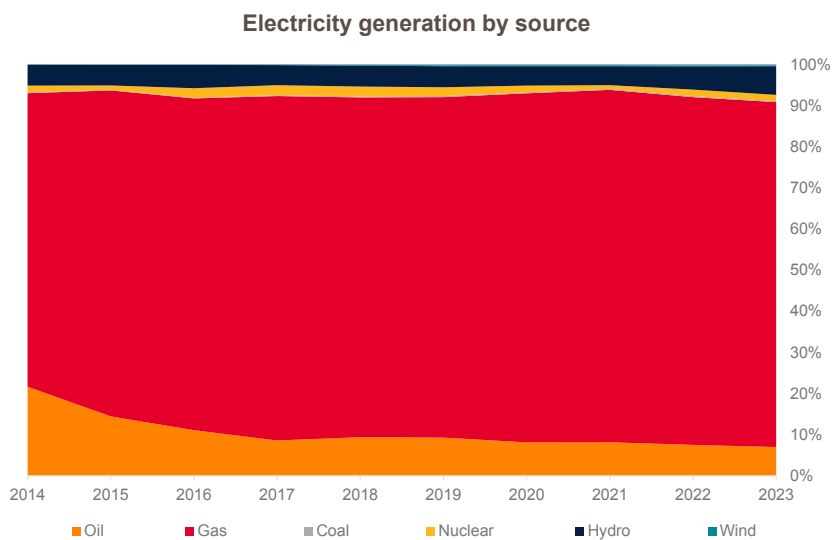
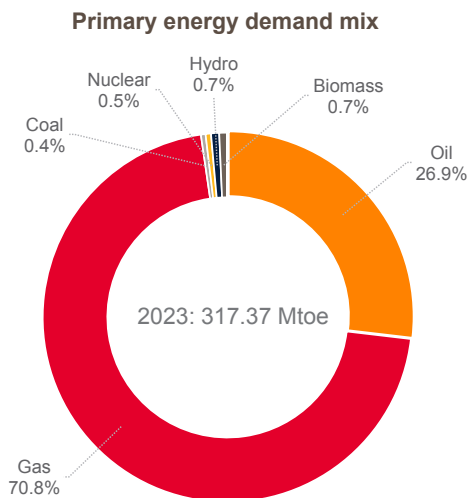
Electricity generation by source



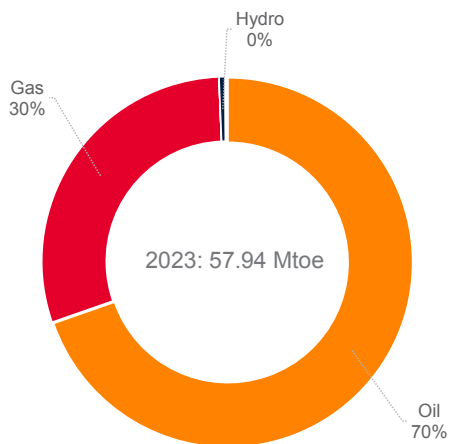
Primary energy demand and CO₂ emissions growth



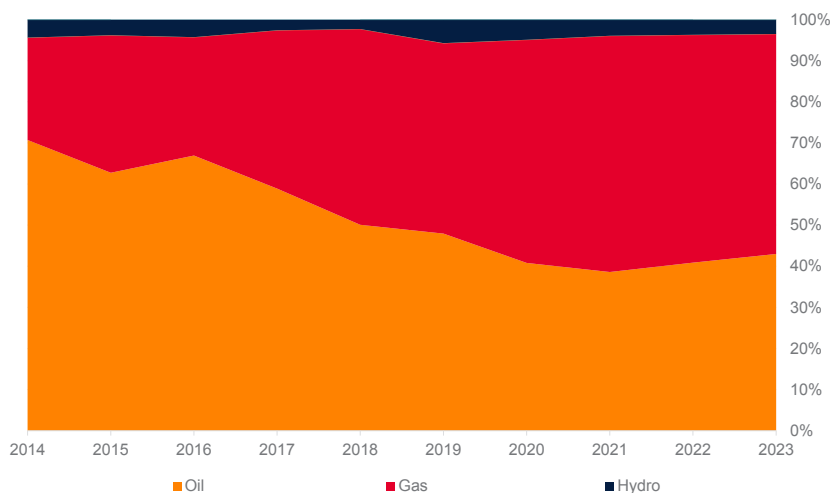




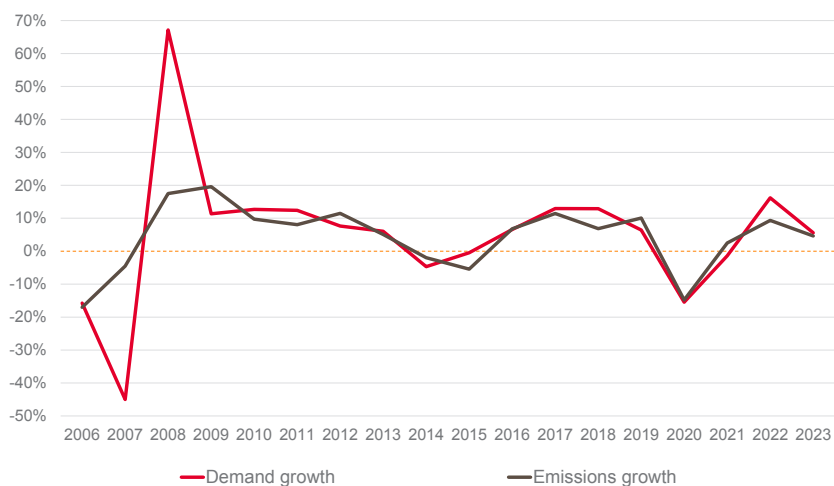
Primary energy demand mix



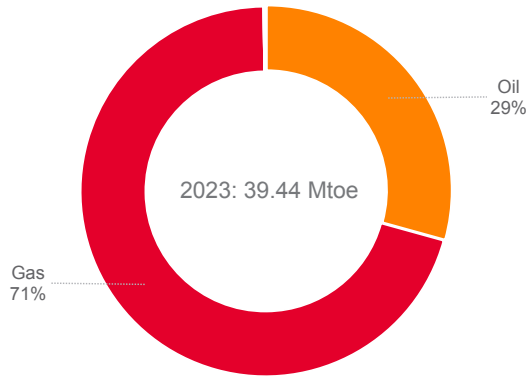
Electricity generation by source



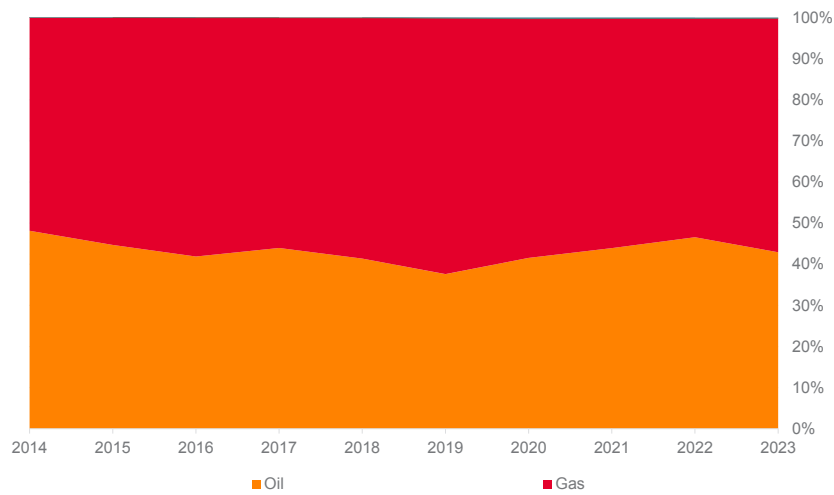
Primary energy demand and CO₂ emissions growth



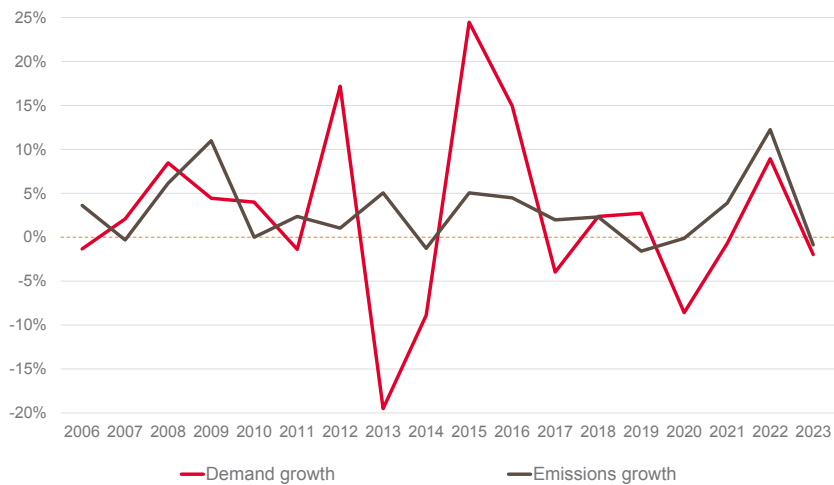
Primary energy demand mix



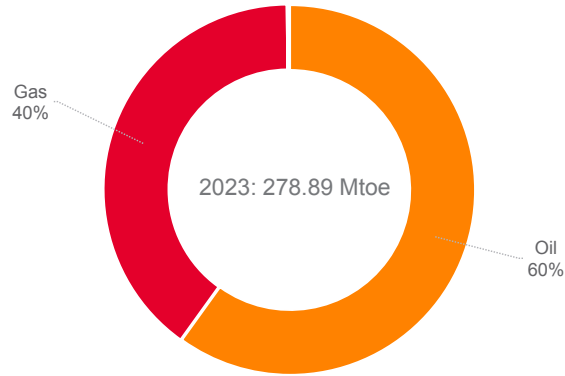
Electricity generation by source



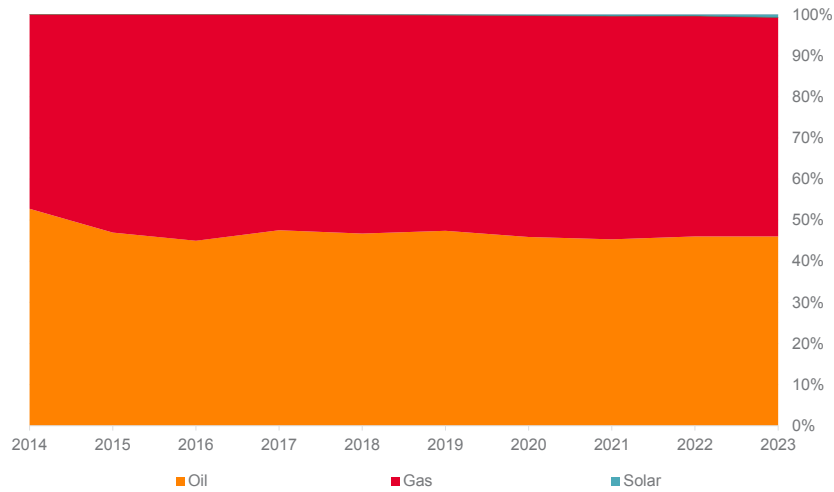
Primary energy demand and CO₂ emissions growth



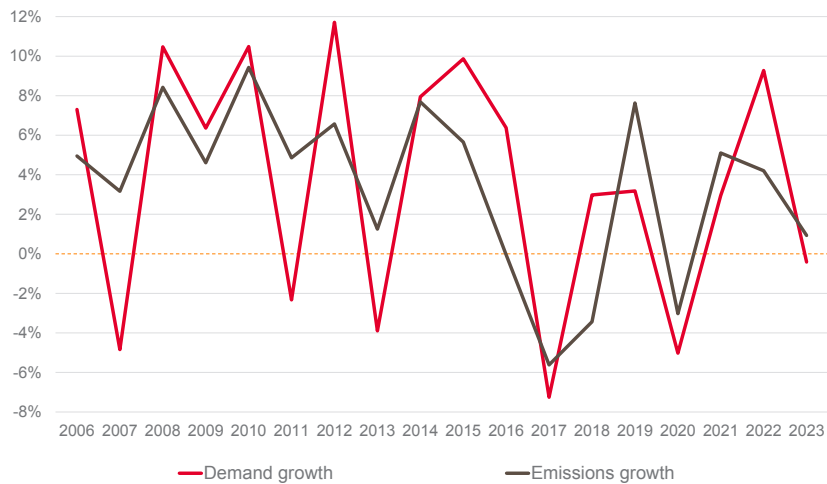
Primary energy demand mix



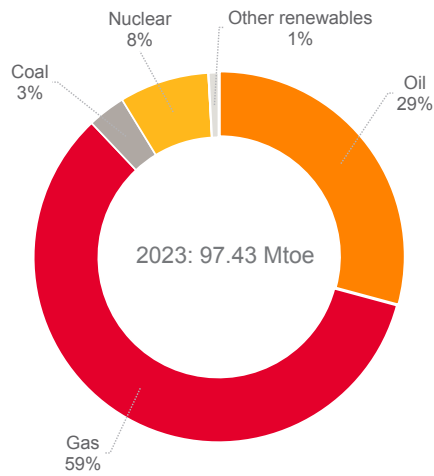
Electricity generation by source



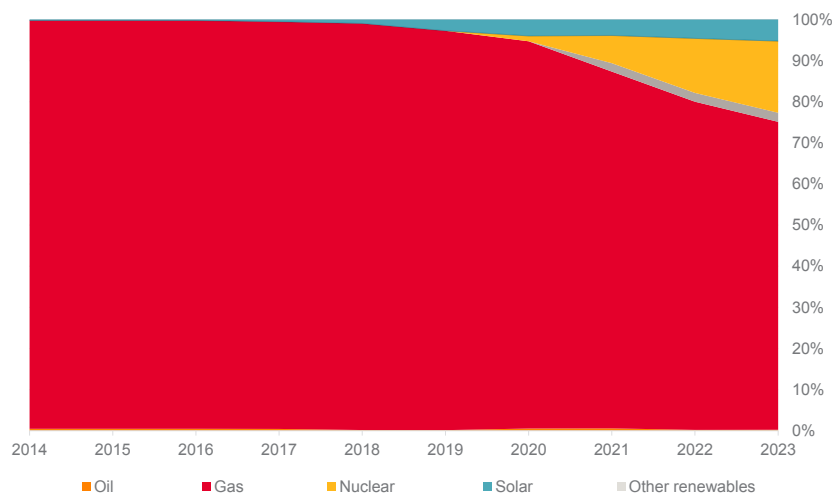
Primary energy demand and CO₂ emissions growth



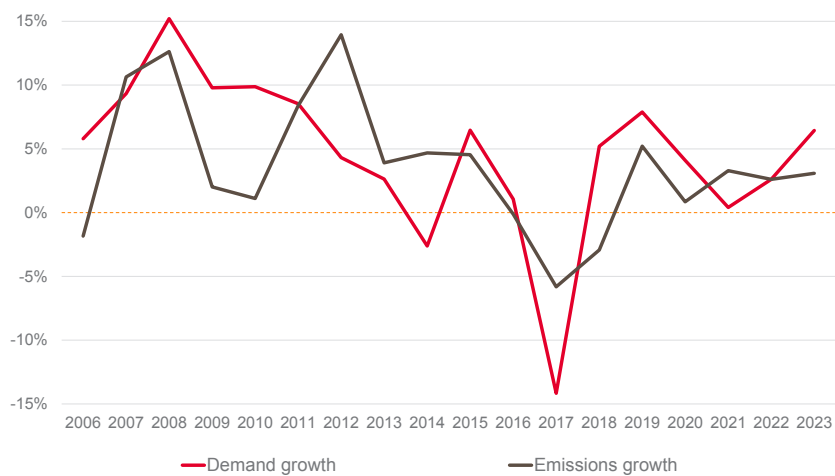
Primary energy demand mix



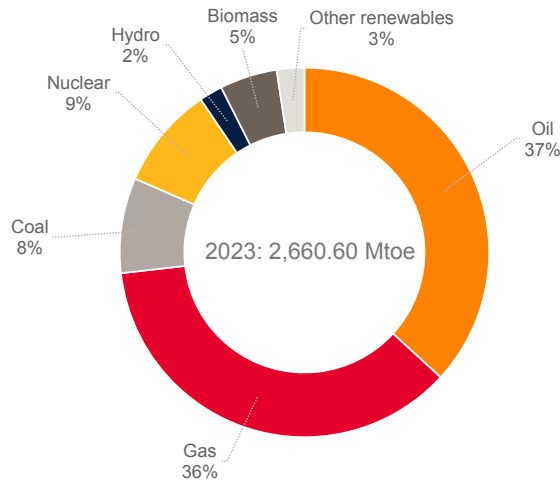
Electricity generation by source



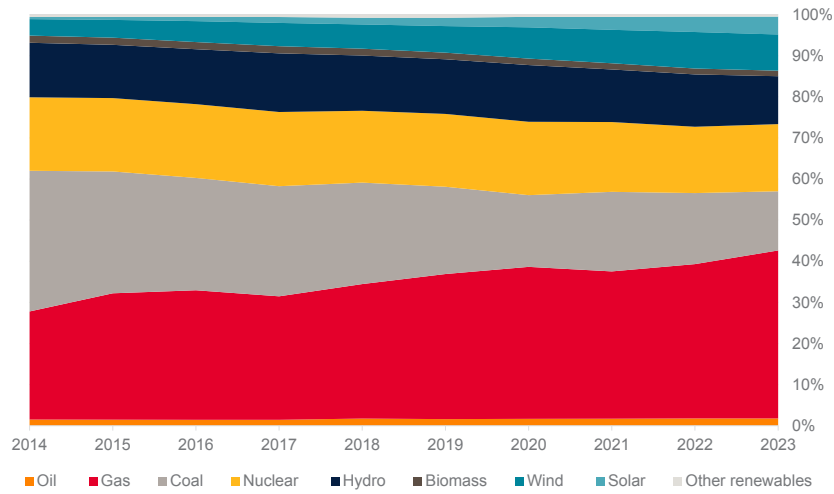
Primary energy demand and CO₂ emissions growth



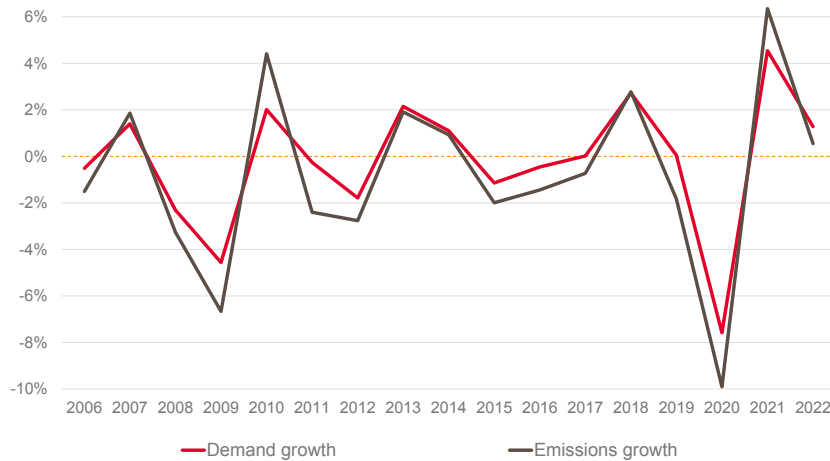
Primary energy demand mix



Electricity generation by source



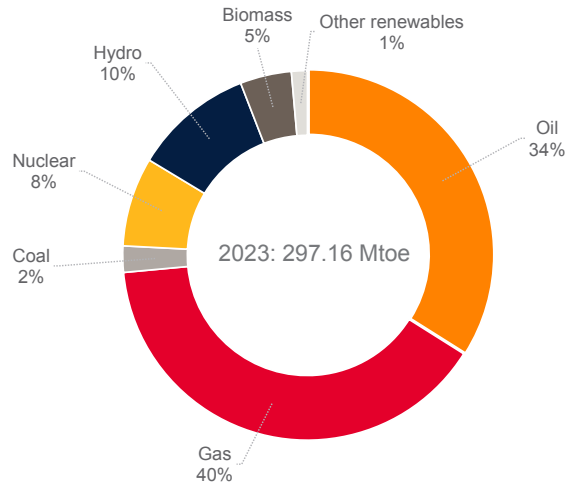
Primary energy demand and CO₂ emissions growth



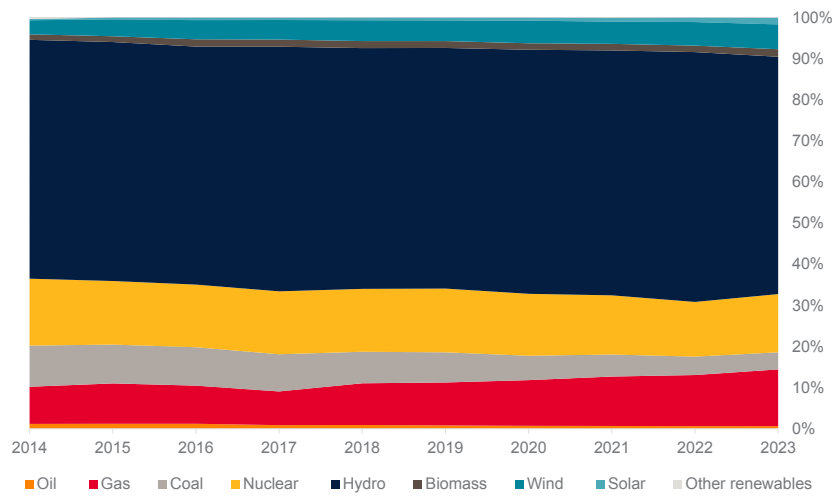
Canada (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	281.2	279.2	290.7	302.7	307.2	309.5	288.8	295.1	299.9	297.2	100.0
Oil	99.4	105.5	99.4	101.4	103.5	107.8	97.0	99.0	102.4	101.6	34.2
Gas	88.7	85.4	103.6	111.3	116.8	117.6	112.3	116.7	120.8	118.5	39.9
Coal	20.2	18.3	17.4	18.0	14.4	12.4	10.0	10.5	7.4	6.9	2.3
Nuclear	28.0	26.5	26.4	26.4	26.3	26.4	25.6	24.1	22.7	23.4	7.9
Hydro	32.9	32.9	33.1	33.9	33.2	32.8	33.2	32.9	34.3	31.4	10.6
Biomass	13.7	13.0	13.2	14.0	13.8	13.3	12.0	12.4	12.8	13.5	4.5
Other renewables	2.1	2.6	3.0	3.0	3.2	3.2	3.5	3.5	3.8	4.2	1.4
Electricity balance of trade*	-3.7	-5.1	-5.4	-5.3	-4.1	-4.0	-4.9	-4.0	-4.3	-2.2	-0.7
Total final consumption, by source	189.5	188.3	189.0	193.1	197.8	198.1	181.0	186.4	195.1	194.6	100.0
Oil	86.0	87.3	88.0	87.7	89.4	90.9	78.1	81.9	87.3	87.8	45.1
Gas	45.6	44.4	45.4	47.2	49.3	48.6	46.7	47.3	49.4	47.7	24.5
Coal	3.0	2.7	2.6	2.8	2.7	2.6	2.2	2.2	2.1	2.5	1.3
Electricity	42.8	42.6	42.2	43.8	44.8	44.9	44.0	44.5	45.4	45.7	23.5
Heat	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.3
Biomass	11.3	10.5	10.0	10.9	10.9	10.5	9.4	9.9	10.3	10.4	5.3
Electricity generation, by source	56.6	56.6	57.3	57.0	56.7	56.1	56.0	55.3	56.4	54.4	100.0
Oil	0.7	0.7	0.7	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.6
Gas	5.1	5.6	5.3	4.7	5.8	5.9	6.2	6.6	7.0	7.5	13.8
Coal	5.7	5.3	5.3	5.2	4.3	4.1	3.3	3.0	2.5	2.3	4.2
Nuclear	9.2	8.8	8.7	8.7	8.7	8.7	8.4	8.0	7.5	7.7	14.2
Hydro	32.9	32.9	33.2	33.9	33.2	32.8	33.2	32.9	34.3	31.4	57.7
Biomass	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.8
Wind	1.9	2.3	2.7	2.7	2.9	2.8	3.1	3.0	3.2	3.3	6.0
Solar	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.9	1.6
Other renewables	0.2	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	189.5	188.3	189.0	193.1	197.8	198.1	181.0	186.4	195.1	194.6	100.0
Industry	44.3	43.6	45.1	46.3	46.8	46.5	42.9	45.1	47.0	47.3	24.3
Transport	57.2	56.9	56.6	58.6	60.4	59.4	49.8	52.5	56.4	57.4	29.5
Residential/Commercial	59.9	58.4	56.9	59.8	62.6	62.0	60.0	59.1	60.9	59.2	30.4
Oil final consumption, by sector	86.0	87.3	88.0	87.7	89.4	90.9	78.1	81.9	87.3	87.8	100.0
Industry	4.1	4.7	4.8	5.3	5.2	5.3	4.5	4.7	5.6	5.5	6.3
Transport	55.0	54.8	54.5	56.2	58.0	57.1	47.6	50.1	53.5	54.1	61.6
Residential/Commercial	3.6	3.4	3.3	3.0	2.9	3.0	2.6	2.5	2.5	2.6	2.9
Natural gas final consumption, by sector	45.6	44.4	45.4	47.2	49.3	48.6	46.7	47.3	49.4	47.7	100.0
Industry	14.9	14.5	16.4	15.8	16.0	16.1	15.1	16.2	16.9	17.0	35.7
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
Residential/Commercial	27.1	25.7	24.9	27.1	29.4	28.8	27.6	26.9	28.4	26.4	55.5
Refined products consumption	86.0	87.3	88.0	87.7	89.4	90.9	78.1	81.9	87.3	87.8	100.0
Gasoline	33.5	34.3	35.5	35.6	36.7	36.5	30.7	31.8	33.6	34.1	38.8
Diesel	27.1	27.0	25.4	27.5	28.1	27.0	23.8	24.9	26.0	25.7	29.2
Heating Oil	1.7	1.5	1.4	1.2	1.2	1.2	0.9	1.0	1.2	1.0	1.1
Aviation Jet	2.5	2.5	2.4	2.6	2.8	2.8	1.5	1.8	3.0	3.5	3.9
LPG	2.7	2.6	2.7	2.9	2.8	5.1	4.5	4.8	5.0	5.3	6.1
Imports	74.3	79.9	83.9	78.0	76.5	81.8	69.7	66.1	65.9	64.3	100.0
Oil	56.0	63.4	65.1	56.7	57.0	60.0	49.8	45.7	45.3	45.7	71.0
Gas	18.4	16.6	18.8	21.3	19.6	21.9	20.0	20.4	20.6	18.6	29.0
Gasoline	2.6	3.0	4.0	3.7	4.2	6.7	4.4	5.4	5.2	5.0	7.8
Diesel	1.5	1.9	2.1	1.1	2.2	1.2	0.8	1.1	0.9	0.8	1.2
Heating Oil	1.0	0.6	0.7	0.8	0.6	0.8	0.5	0.4	0.4	0.3	0.4
Aviation Jet	2.6	3.0	2.8	2.5	3.1	3.4	1.2	1.0	2.0	2.3	3.6
LPG	0.2	0.1	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Exports	240.1	250.5	263.2	274.3	285.6	294.3	278.0	296.2	303.4	305.9	100.0
Oil	174.3	184.9	192.2	202.6	218.4	230.0	218.1	229.0	230.7	235.5	77.0
Gas	65.8	65.7	71.0	71.8	67.2	64.3	59.9	67.2	72.7	70.4	23.0
Gasoline	6.4	7.5	7.7	8.6	6.9	8.0	6.8	6.9	5.5	5.7	1.9
Diesel	6.5	6.9	6.8	8.2	6.5	7.8	7.6	7.5	7.9	8.2	2.7
Heating Oil	3.5	3.0	2.9	2.8	3.6	1.8	0.8	1.3	1.1	1.3	0.4
Aviation Jet	0.4	0.5	0.5	1.2	1.2	1.1	0.4	0.4	0.4	0.4	0.1
LPG	0.6	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	563.9	562.4	559.5	568.0	580.0	575.9	520.9	529.3	547.4	540.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	355.9	352.6	347.4	342.2	340.0	331.3	315.7	305.5	305.6	298.4	-
Final energy intensity (toe/million \$15ppp)	106.1	103.8	102.7	103.5	103.8	100.7	96.7	94.4	95.6	94.4	-
Total energy intensity (toe/million \$15ppp)	177.5	175.1	180.5	182.4	180.1	178.1	175.0	170.3	167.4	164.1	-

*Heat is included

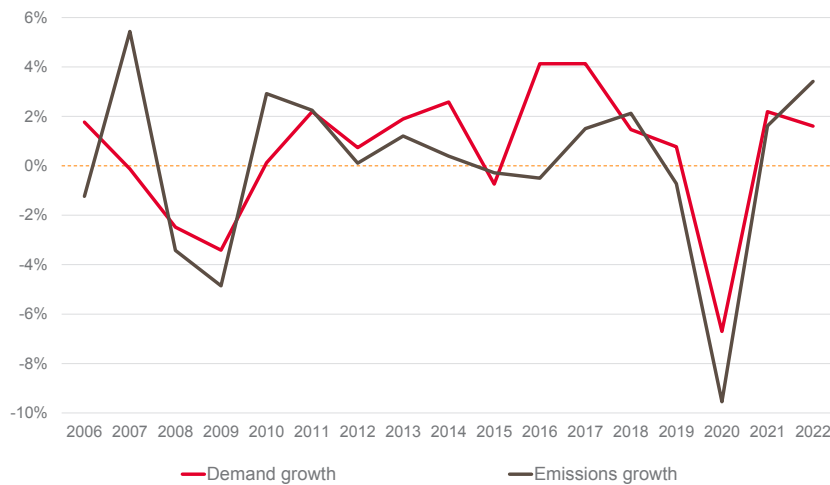
Primary energy demand mix



Electricity generation by source



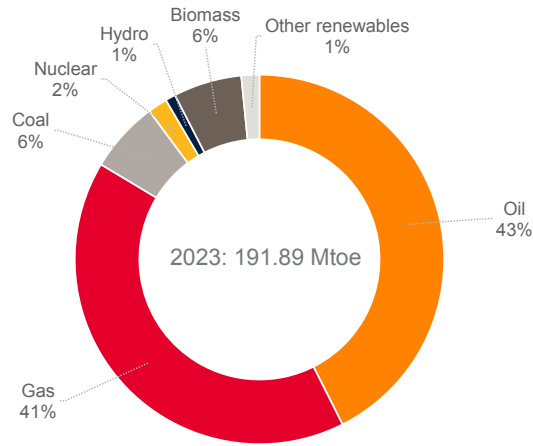
Primary energy demand and CO₂ emissions growth



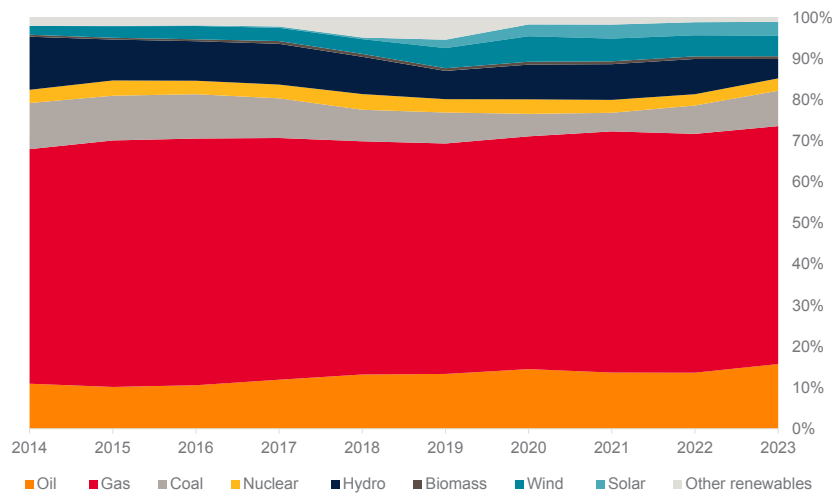
Mexico (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	189.8	188.4	188.1	184.8	188.5	187.3	175.2	181.5	188.6	191.9	100.0
Oil	93.9	89.6	87.1	85.1	79.1	82.2	71.5	77.1	81.1	79.9	41.6
Gas	61.0	65.2	66.4	62.6	72.5	68.9	70.6	72.7	72.5	77.0	40.1
Coal	12.6	11.5	12.4	12.8	12.4	12.0	9.0	7.8	10.9	11.7	6.1
Nuclear	2.5	3.0	2.8	2.8	3.6	2.9	2.9	3.1	2.8	3.2	1.7
Hydro	3.3	2.7	2.6	2.8	2.8	2.0	2.3	2.8	2.9	1.7	0.9
Biomass	10.4	10.2	10.3	11.4	10.9	11.1	11.2	10.8	11.0	11.2	5.8
Other renewables	0.6	0.8	0.9	1.0	1.2	2.1	2.5	2.9	2.8	3.0	1.5
Electricity balance of trade*	5.3	5.6	5.6	6.3	6.1	6.1	5.3	4.3	4.6	4.2	2.2
Total final consumption, by source	118.3	119.3	121.3	122.5	117.7	117.2	102.5	99.0	106.6	106.5	100.0
Oil	72.1	71.8	74.3	72.0	68.0	69.1	55.5	54.6	59.8	58.9	55.4
Gas	14.2	13.9	14.3	15.1	12.2	12.3	10.5	9.1	9.3	9.9	9.3
Coal	2.7	4.0	1.9	3.6	2.6	2.6	2.6	1.3	1.7	0.7	0.7
Electricity	21.7	22.1	23.3	23.4	25.8	24.1	25.8	25.4	26.6	27.8	26.1
Heat	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Biomass	7.4	7.3	7.3	8.2	8.7	8.8	7.8	8.2	8.8	8.7	8.2
Electricity generation, by source	25.9	26.7	27.6	27.8	30.8	29.7	27.3	32.7	33.8	35.3	100.0
Oil	2.8	2.7	2.9	3.3	4.1	4.0	4.0	4.5	4.6	5.6	15.7
Gas	14.8	16.0	16.5	16.3	17.4	16.6	15.5	19.2	19.6	20.4	57.9
Coal	2.9	2.9	3.0	2.7	2.3	2.2	1.5	1.5	2.3	3.0	8.6
Nuclear	0.8	1.0	0.9	0.9	1.2	1.0	1.0	1.0	0.9	1.1	3.0
Hydro	3.3	2.7	2.6	2.8	2.8	2.0	2.3	2.8	2.9	1.7	4.7
Biomass	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
Wind	0.6	0.8	0.9	0.9	1.1	1.5	1.7	1.8	1.7	1.8	5.0
Solar	0.0	0.0	0.0	0.1	0.1	0.6	0.8	1.1	1.1	1.2	3.4
Other renewables	0.5	0.5	0.5	0.6	1.5	1.6	0.5	0.6	0.4	0.4	1.0
Total final consumption, by sector	118.3	119.3	121.3	122.5	117.7	117.2	102.5	99.0	106.6	106.5	100.0
Industry	35.7	37.7	37.6	40.5	36.6	36.2	36.0	33.2	35.0	35.2	33.0
Transport	50.6	50.4	52.2	50.7	49.4	50.3	36.1	35.5	40.4	39.3	36.9
Residential/Commercial	21.9	22.0	21.9	21.8	22.7	22.2	22.9	23.2	24.0	24.7	23.2
Oil final consumption, by sector	72.1	71.8	74.3	72.0	68.0	69.1	55.5	54.6	59.8	58.9	100.0
Industry	5.7	6.2	7.0	6.3	4.3	5.3	5.3	5.3	5.3	5.2	8.8
Transport	50.5	50.3	52.1	50.6	49.3	50.2	35.9	35.4	40.3	39.1	66.4
Residential/Commercial	7.5	7.4	7.2	7.1	6.9	6.7	8.3	8.2	8.5	8.8	14.9
Natural gas final consumption, by sector	14.2	13.9	14.3	15.1	12.2	12.3	10.5	9.1	9.3	9.9	100.0
Industry	12.4	12.4	12.8	13.7	11.0	11.1	9.4	8.1	8.3	8.8	89.3
Transport	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.9	8.6
Refined products consumption	72.1	71.8	74.3	72.0	68.0	69.1	55.5	54.6	59.8	58.9	100.0
Gasoline	34.1	34.8	36.1	35.0	34.3	35.1	26.0	26.1	30.8	29.9	50.8
Diesel	19.5	19.0	19.6	18.6	17.9	17.6	11.4	10.5	10.9	10.5	17.8
Heating Oil	0.5	0.5	0.8	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	9.8	9.6	9.7	9.7	9.4	8.8	11.2	11.0	11.5	11.9	20.2
Imports	53.6	64.7	77.9	86.2	97.5	94.1	82.7	87.8	87.9	89.7	100.0
Oil	30.0	34.5	42.3	50.5	53.5	53.1	43.8	47.3	49.1	47.9	53.4
Gas	23.6	30.2	35.6	35.7	44.0	41.0	38.9	40.5	38.8	41.8	46.6
Gasoline	15.8	18.2	21.6	22.8	25.2	25.3	20.3	21.7	22.2	21.2	23.6
Diesel	6.7	7.4	9.4	12.9	14.0	12.4	9.5	9.8	12.7	13.9	15.5
Heating Oil	0.7	0.9	1.4	2.2	1.8	2.3	0.5	0.0	0.0	0.0	0.0
Aviation Jet	0.6	1.1	1.6	2.1	2.7	2.8	1.3	2.2	2.7	2.7	3.0
LPG	3.2	3.8	5.0	6.1	5.3	6.7	8.7	9.6	7.8	6.2	6.9
Exports	71.0	70.8	73.8	71.7	72.1	66.5	68.0	64.3	61.8	64.1	100.0
Oil	70.9	70.8	73.8	71.7	72.1	66.5	68.0	64.3	61.8	64.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.1	0.3	0.8	0.2	0.2	0.6	0.8	0.3	0.9	0.7	1.0
Heating Oil	7.0	6.8	6.2	5.7	5.3	3.8	6.0	8.6	9.5	9.7	15.1
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	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	456.0	460.7	463.3	462.7	429.9	435.8	369.3	387.2	421.2	445.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	211.2	206.6	202.4	198.0	180.0	182.8	168.4	168.6	177.9	182.2	-
Final energy intensity (toe/million \$15ppp)	51.9	51.1	50.6	50.2	47.4	47.4	44.8	41.4	43.4	42.6	-
Total energy intensity (toe/million \$15ppp)	87.9	84.5	82.2	79.1	78.9	78.6	79.9	79.0	79.7	80.0	-

*Heat is included

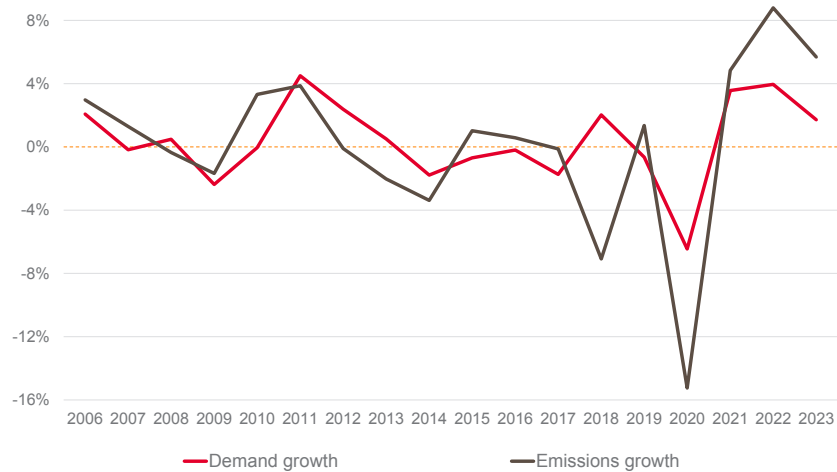
Primary energy demand mix



Electricity generation by source



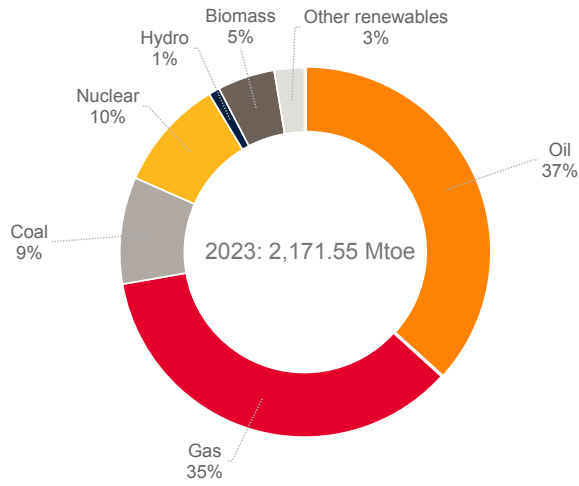
Primary energy demand and CO₂ emissions growth



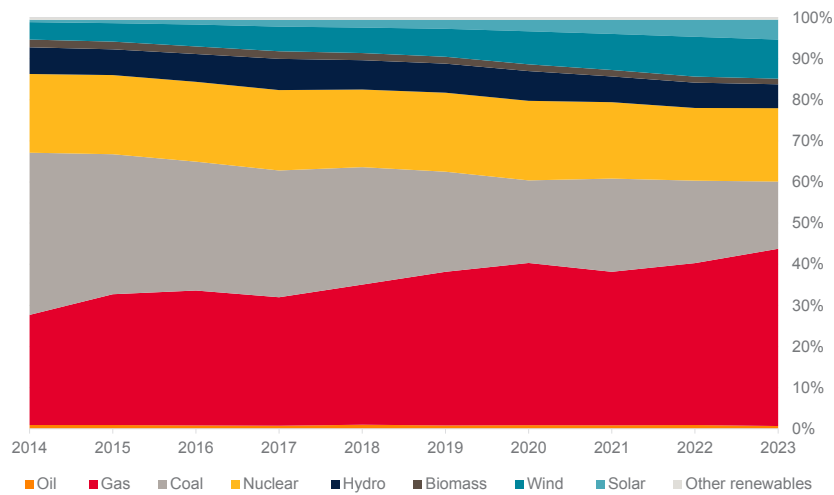
United States <i>(Million toe)</i>	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	2,215.8	2,188.5	2,165.2	2,156.9	2,220.6	2,220.7	2,047.5	2,149.1	2,170.8	2,171.6	100.0
Oil	762.7	782.6	778.2	784.9	800.8	795.4	704.6	766.7	757.7	789.2	36.3
Gas	628.7	647.6	654.0	645.2	695.3	743.4	720.2	724.2	759.1	764.2	35.2
Coal	440.8	375.9	343.0	331.8	319.4	274.1	222.0	252.0	238.9	201.1	9.3
Nuclear	216.5	216.4	218.9	218.6	219.3	219.8	214.5	211.5	209.3	210.3	9.7
Hydro	22.5	21.6	23.2	26.0	25.4	24.9	24.7	21.8	22.1	20.8	1.0
Biomass	102.8	99.4	98.8	98.1	104.8	105.8	97.6	102.9	105.1	107.9	5.0
Other renewables	18.5	20.3	24.7	28.8	31.7	34.6	40.2	46.5	54.6	56.4	2.6
Electricity balance of trade*	23.5	24.9	24.4	23.5	24.0	22.6	23.8	23.5	24.1	21.6	1.0
Total final consumption, by source	1,486.7	1,482.8	1,489.0	1,492.4	1,560.0	1,553.9	1,426.4	1,505.5	1,542.1	1,521.1	100.0
Oil	716.7	733.3	735.8	739.1	755.3	755.3	669.6	727.5	736.5	735.4	48.3
Gas	335.5	321.4	322.0	329.4	360.3	360.4	332.8	343.1	355.9	340.0	22.4
Coal	22.2	19.1	17.8	17.1	16.6	15.3	12.9	13.6	13.6	12.0	0.8
Electricity	325.9	325.2	328.0	323.0	335.5	329.4	324.9	330.1	340.6	334.8	22.0
Heat	8.1	8.0	8.9	8.0	9.8	9.1	9.0	8.9	9.2	9.5	0.6
Biomass	78.3	75.7	76.5	75.8	82.6	84.6	77.2	82.5	86.3	89.4	5.9
Electricity generation, by source	373.3	371.3	371.7	368.6	383.2	377.7	366.4	376.2	390.4	388.7	100.0
Oil	3.4	3.3	3.0	2.8	3.7	3.1	3.2	3.1	3.6	2.6	0.7
Gas	99.9	118.0	122.0	115.0	130.7	141.0	144.5	140.5	153.7	167.6	43.1
Coal	147.3	126.5	116.4	113.6	109.4	92.0	73.6	85.3	78.2	63.5	16.3
Nuclear	71.4	71.4	72.2	72.1	72.4	72.5	70.8	69.8	69.1	69.4	17.9
Hydro	24.2	23.3	25.1	28.0	27.3	26.7	26.5	23.6	24.0	22.6	5.8
Biomass	7.0	6.9	6.8	6.8	6.7	6.3	6.1	6.0	5.7	5.3	1.4
Wind	15.8	16.6	19.7	22.1	23.7	25.6	29.4	32.9	37.8	37.0	9.5
Solar	2.2	3.1	4.3	6.1	7.3	8.4	10.3	13.0	16.2	18.8	4.8
Other renewables	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.1	2.0	0.5
Total final consumption, by sector	1,486.7	1,482.8	1,489.0	1,492.4	1,560.0	1,553.9	1,426.4	1,505.5	1,542.1	1,521.1	100.0
Industry	279.8	278.3	284.2	279.2	296.4	285.6	285.6	289.4	293.4	290.4	19.1
Transport	566.4	587.9	594.6	598.0	607.7	604.9	517.2	571.4	578.9	588.0	38.7
Residential/Commercial	481.5	463.1	454.8	450.7	486.8	485.5	462.2	473.1	496.6	475.2	31.2
Oil final consumption, by sector	716.7	733.3	735.8	739.1	755.3	755.3	669.6	727.5	736.5	735.4	100.0
Industry	17.4	19.1	19.8	18.0	19.3	16.7	18.0	20.0	20.2	19.4	2.6
Transport	535.5	555.8	559.8	563.4	573.5	570.5	486.5	536.4	542.6	548.7	74.6
Residential/Commercial	24.1	26.2	25.8	23.9	24.3	23.7	22.6	23.6	23.7	23.1	3.1
Natural gas final consumption, by sector	335.5	321.4	322.0	329.4	360.3	360.4	332.8	343.1	355.9	340.0	100.0
Industry	120.6	121.7	125.6	124.6	133.4	133.1	136.1	135.6	138.3	138.2	40.7
Transport	0.8	0.9	1.0	1.1	1.2	1.2	1.2	1.3	1.5	1.2	0.4
Residential/Commercial	198.1	181.9	175.2	178.0	200.0	200.8	184.5	188.5	199.5	183.5	54.0
Refined products consumption	714.2	729.2	732.9	734.8	749.6	746.8	660.4	716.6	725.2	724.0	100.0
Gasoline	360.9	371.2	376.5	374.1	374.9	373.3	322.9	353.0	351.4	356.7	49.3
Diesel	183.6	179.4	176.4	178.9	185.4	181.2	168.0	179.6	182.0	177.6	24.5
Heating Oil	0.3	2.9	1.8	1.8	1.9	0.9	1.1	3.3	3.4	2.8	0.4
Aviation Jet	50.4	52.8	54.8	57.9	58.8	59.8	37.0	47.0	53.4	57.0	7.9
LPG	34.7	36.3	34.8	32.4	35.9	37.1	34.3	35.5	36.3	33.7	4.7
Imports	526.6	535.9	571.4	576.8	564.3	519.4	455.9	489.4	488.0	495.7	100.0
Oil	464.3	473.0	501.8	506.4	497.6	456.0	396.9	422.1	415.5	425.5	85.8
Gas	62.3	62.9	69.5	70.4	66.8	63.4	59.0	67.3	72.5	70.2	14.2
Gasoline	29.5	32.7	34.0	30.8	32.8	37.7	27.9	37.9	30.6	35.3	7.1
Diesel	10.6	11.2	8.4	8.8	10.1	11.1	12.5	14.9	10.0	8.9	1.8
Heating Oil	11.2	11.7	11.6	11.3	12.6	9.4	11.4	10.6	11.3	6.2	1.2
Aviation Jet	4.9	6.9	7.6	8.3	6.7	8.4	7.7	8.2	6.2	6.6	1.3
LPG	3.6	4.2	4.8	5.4	5.9	6.4	5.0	5.4	5.5	5.3	1.1
Exports	226.9	255.0	287.7	359.4	428.0	495.3	507.2	538.9	592.0	625.7	100.0
Oil	192.3	214.3	235.0	284.9	343.3	385.7	383.0	379.4	426.6	443.4	70.9
Gas	34.7	40.7	52.7	74.4	84.8	109.6	124.3	159.5	165.4	182.3	29.1
Gasoline	24.9	27.8	34.7	37.4	42.7	40.7	35.7	41.1	43.5	41.2	6.6
Diesel	54.8	58.5	58.7	68.5	64.2	65.5	60.1	54.2	62.5	57.1	9.1
Heating Oil	20.1	17.5	16.3	16.8	19.2	12.4	7.8	5.3	5.3	6.0	1.0
Aviation Jet	8.1	8.3	8.7	9.2	11.1	11.2	5.0	5.9	9.0	8.8	1.4
LPG	16.5	23.7	30.2	34.6	38.5	45.7	54.1	58.3	59.2	67.1	10.7
CO₂ Emissions (Million tons CO₂)	5,377.2	5,246.7	5,156.2	5,103.5	5,294.5	5,177.7	4,686.1	5,013.9	4,994.5	4,900.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	303.4	288.2	278.6	269.7	271.8	259.8	241.8	244.2	238.4	228.1	-
Final energy intensity (toe/million \$15ppp)	76.0	74.1	73.2	71.3	72.5	70.1	66.3	65.9	66.3	63.9	-
Total energy intensity (toe/million \$15ppp)	125.0	120.2	117.0	114.0	114.0	111.4	105.7	104.7	103.6	101.1	-

*Heat is included

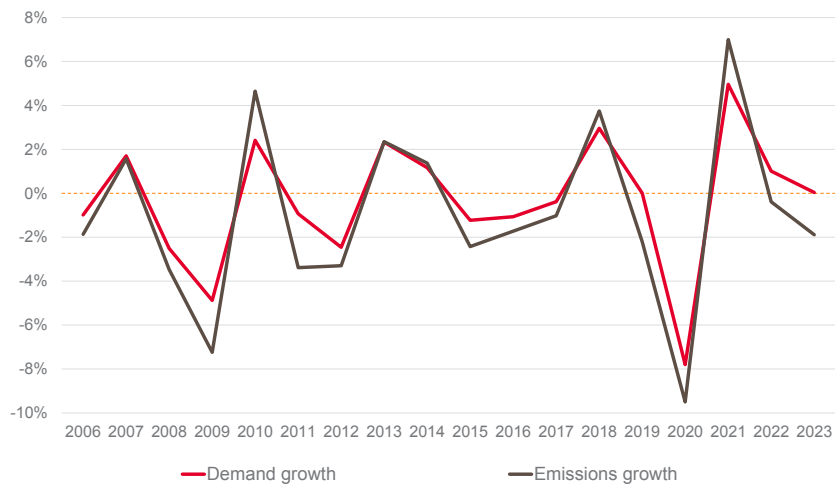
Primary energy demand mix



Electricity generation by source



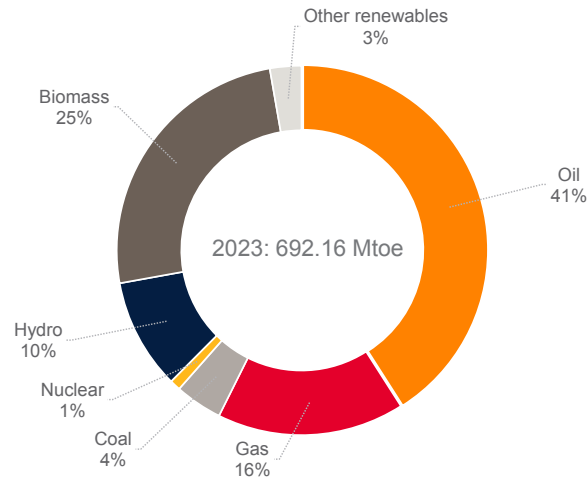
Primary energy demand and CO₂ emissions growth



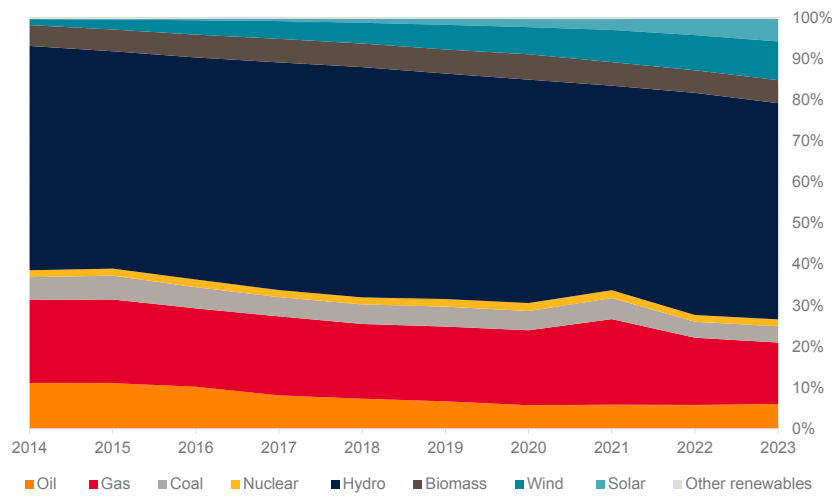
South and Central America		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
<i>(Million toe)</i>												
Total primary energy demand, by source		686.0	682.2	669.7	668.4	653.0	664.2	624.3	666.3	675.9	692.2	100.0
Oil		293.4	284.9	274.5	270.9	253.7	260.0	233.5	256.3	268.0	271.8	39.3
Gas		141.1	140.7	136.5	136.2	133.4	132.0	118.2	133.4	126.9	108.9	15.7
Coal		35.4	36.7	35.0	33.9	33.2	34.4	31.0	33.8	28.9	27.6	4.0
Nuclear		5.5	5.7	6.3	5.7	5.8	6.3	6.5	6.7	5.9	6.3	0.9
Hydro		59.1	57.8	59.4	61.1	62.4	61.5	60.0	57.5	63.8	64.3	9.3
Biomass		146.4	150.2	150.1	151.7	154.2	157.6	161.3	161.0	161.9	166.6	24.1
Other renewables		1.6	2.9	4.2	5.4	6.7	8.3	9.5	12.3	14.9	18.2	2.6
Electricity balance of trade*		3.5	3.5	3.7	3.6	3.7	4.0	4.4	5.4	5.5	28.5	4.1
Total final consumption, by source		509.8	502.9	497.3	498.6	493.6	493.4	463.1	494.2	509.3	523.8	100.0
Oil		238.5	231.2	227.5	227.9	220.9	222.4	197.4	215.0	225.4	234.3	44.7
Gas		59.9	58.9	57.4	56.1	56.3	54.8	46.5	52.8	53.7	54.2	10.4
Coal		17.7	17.2	15.3	16.5	17.0	15.5	14.4	16.2	15.5	14.6	2.8
Electricity		87.9	87.9	88.3	88.6	90.1	90.2	89.2	93.6	95.9	98.9	18.9
Heat		0.0	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.1	1.2	0.2
Biomass		105.7	107.7	108.7	109.4	109.2	110.3	115.4	115.6	117.6	120.6	23.0
Electricity generation, by source		108.4	109.4	110.1	110.4	111.5	112.3	110.4	115.8	118.2	122.5	100.0
Oil		12.0	12.1	11.2	9.0	8.1	7.5	6.3	6.8	6.8	7.3	6.0
Gas		21.9	22.3	21.0	21.2	20.3	20.4	20.1	24.1	19.3	18.3	15.0
Coal		6.0	6.3	5.7	5.2	5.3	5.4	5.2	5.9	4.6	4.8	3.9
Nuclear		1.8	1.9	2.1	1.9	1.9	2.1	2.1	2.2	1.9	2.1	1.7
Hydro		59.2	57.8	59.4	61.1	62.4	61.6	60.0	57.6	63.9	64.4	52.6
Biomass		5.5	5.8	6.1	6.3	6.4	6.6	6.8	6.6	6.5	6.9	5.6
Wind		1.6	2.7	3.9	4.8	5.6	6.7	7.3	9.1	10.1	11.5	9.4
Solar		0.1	0.2	0.4	0.6	1.1	1.6	2.2	3.1	4.7	6.7	5.5
Other renewables		0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Total final consumption, by sector		509.8	502.9	497.3	498.6	493.6	493.4	463.1	494.2	509.3	523.8	100.0
Industry		166.6	159.3	157.3	157.9	154.0	150.0	149.9	155.8	160.9	163.8	31.3
Transport		177.6	178.5	175.3	176.0	174.7	177.3	153.6	170.2	178.5	186.1	35.5
Residential/Commercial		108.6	109.6	110.5	109.6	113.7	112.2	112.3	120.7	123.5	121.8	23.2
Oil final consumption, by sector		238.5	231.2	227.5	227.9	220.9	222.4	197.4	215.0	225.4	234.3	100.0
Industry		29.8	27.0	25.3	24.9	24.9	25.2	22.8	23.5	26.1	27.6	11.8
Transport		153.9	151.7	150.3	150.7	146.6	146.7	126.9	140.6	148.6	154.4	65.9
Residential/Commercial		17.3	16.9	17.5	17.5	17.6	17.2	18.7	21.0	21.3	18.8	8.0
Natural gas final consumption, by sector		59.9	58.9	57.4	56.1	56.3	54.8	46.5	52.8	53.7	54.2	100.0
Industry		28.9	27.9	26.9	26.4	26.2	24.4	20.9	22.7	23.8	24.7	45.5
Transport		5.6	5.7	5.5	5.4	5.4	5.5	4.2	5.6	5.6	5.6	10.3
Residential/Commercial		13.7	13.8	13.9	13.4	13.0	12.5	12.1	14.0	13.8	13.5	24.9
Refined products consumption		238.2	230.9	227.2	227.6	220.7	222.2	197.2	214.8	225.3	234.3	100.0
Gasoline		67.5	66.6	68.0	68.7	64.3	63.5	51.6	59.3	63.7	73.7	31.5
Diesel		101.7	100.0	95.5	96.0	97.4	98.3	91.5	97.2	101.4	106.2	45.3
Heating Oil		10.5	8.6	7.9	7.7	6.9	6.6	6.7	7.3	6.3	4.8	2.0
Aviation Jet		5.9	5.8	5.4	5.4	5.5	5.4	3.0	3.9	4.9	6.3	2.7
LPG		21.4	20.9	21.5	21.1	20.1	20.0	19.5	20.8	21.3	21.1	9.0
Imports		185.4	178.5	172.4	177.2	171.1	164.9	137.2	164.5	170.5	163.1	100.0
Oil		155.3	150.0	149.7	154.9	150.3	145.5	117.6	135.2	151.2	146.9	90.1
Gas		30.1	28.4	22.7	22.3	20.8	19.4	19.6	29.3	19.4	16.2	9.9
Gasoline		14.2	14.9	17.1	19.8	18.9	21.2	18.6	21.3	25.0	30.1	18.5
Diesel		40.3	37.0	41.4	43.0	42.5	43.8	39.1	45.8	49.2	63.1	38.7
Heating Oil		13.0	12.8	13.3	13.2	12.7	14.1	10.9	11.9	12.9	14.1	8.7
Aviation Jet		4.8	5.2	4.8	5.4	5.5	5.7	2.6	3.6	5.1	9.3	5.7
LPG		7.5	6.9	7.4	7.9	8.5	8.8	8.6	9.3	9.5	8.5	5.2
Exports		296.3	295.9	281.6	272.8	257.6	228.9	218.7	202.1	221.2	258.2	100.0
Oil		259.1	261.4	249.5	241.3	225.8	198.6	191.0	179.2	196.8	226.1	87.6
Gas		37.2	34.5	32.1	31.5	31.7	30.3	27.7	22.9	24.4	32.1	12.4
Gasoline		6.2	8.0	7.5	6.5	6.9	5.5	4.9	4.2	2.9	0.9	0.4
Diesel		5.2	4.2	5.0	3.9	4.4	2.9	3.5	3.3	2.6	2.7	1.0
Heating Oil		25.9	24.5	23.4	22.7	22.9	16.1	17.8	16.4	18.3	23.6	9.1
Aviation Jet		5.1	4.7	3.3	2.8	1.9	1.3	0.7	0.5	0.3	0.5	0.2
LPG		2.4	2.3	2.2	2.1	2.5	2.5	2.2	2.0	2.2	2.6	1.0
CO₂ Emissions (Million tons CO₂)		1,276.1	1,262.8	1,213.0	1,188.6	1,148.6	1,135.1	1,008.4	1,127.6	1,119.8	1,125.1	-
CO₂ Intensity (tCO₂/million \$15ppp)		174.6	173.7	170.4	165.7	159.2	157.6	150.3	156.6	149.4	147.3	-
Final energy intensity (toe/million \$15ppp)		69.7	69.2	69.9	69.5	68.4	68.5	69.0	68.6	68.0	68.6	-
Total energy intensity (toe/million \$15ppp)		93.8	93.9	94.1	93.2	90.5	92.2	93.0	92.5	90.2	90.6	-

*Heat is included

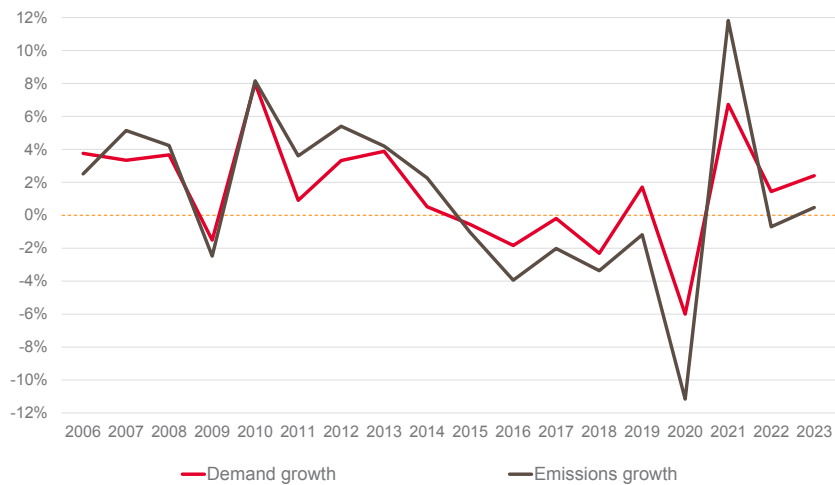
Primary energy demand mix



Electricity generation by source

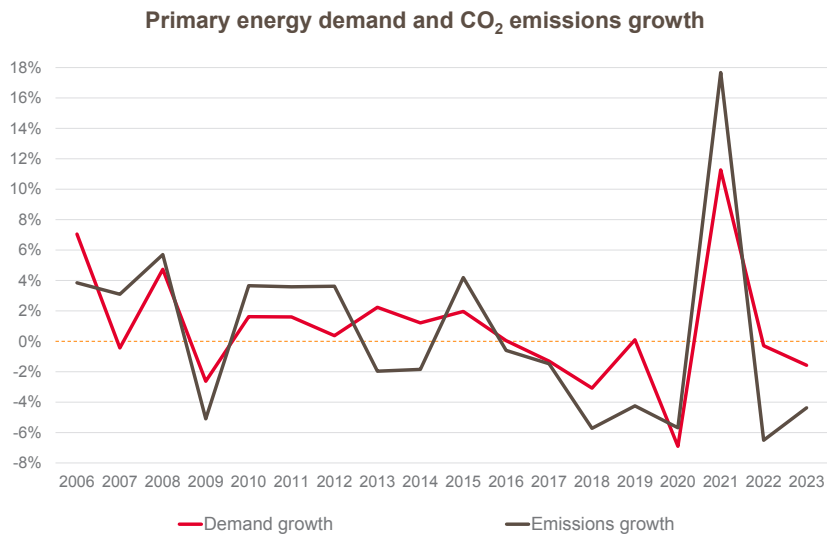
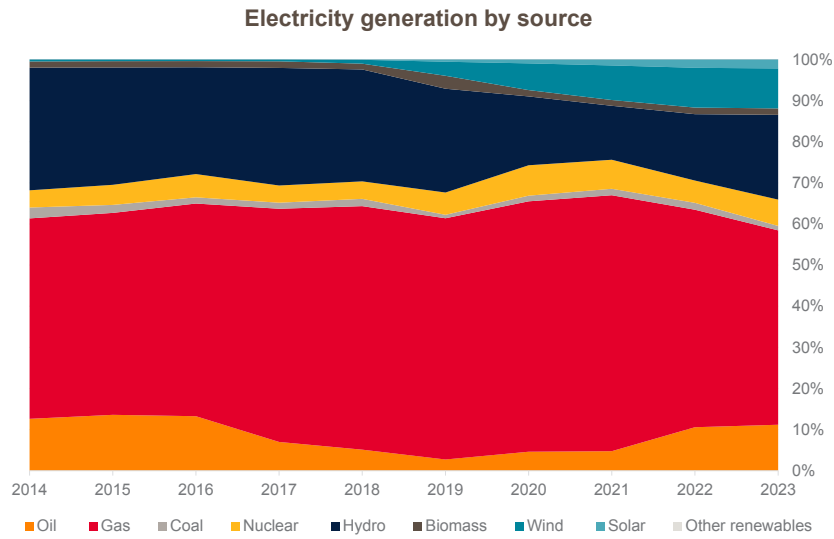
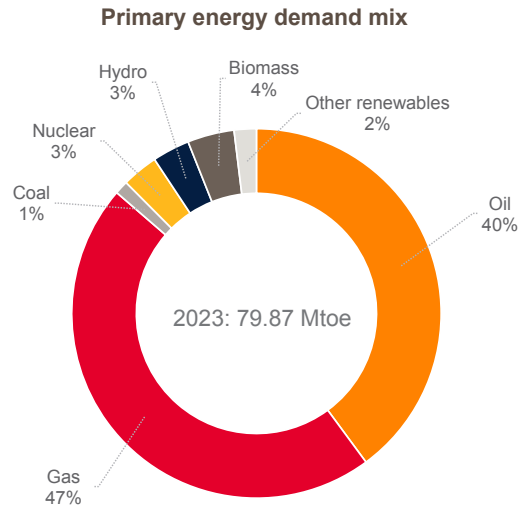


Primary energy demand and CO₂ emissions growth



Argentina (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	80.4	82.0	82.1	81.0	78.5	78.6	73.1	81.4	81.2	79.9	100.0
Oil	29.5	30.3	29.4	28.2	25.8	26.0	24.0	30.5	30.8	31.3	39.2
Gas	40.6	40.9	42.1	42.1	42.0	41.8	38.9	40.7	39.2	36.5	45.7
Coal	1.5	1.5	1.1	1.1	1.2	0.5	0.9	1.2	1.3	0.9	1.2
Nuclear	1.5	1.9	2.2	1.6	1.7	2.1	2.8	2.8	2.1	2.5	3.1
Hydro	3.5	3.5	3.2	3.5	3.5	3.1	2.1	1.7	2.0	2.6	3.2
Biomass	2.9	3.0	3.0	3.4	3.3	3.6	3.2	3.0	3.3	3.2	4.0
Other renewables	0.1	0.1	0.0	0.1	0.1	0.5	0.9	1.3	1.5	1.5	1.9
Electricity balance of trade*	0.8	0.9	0.9	0.9	0.8	0.9	0.4	0.2	1.1	1.3	1.6
Total final consumption, by source	55.5	56.9	56.5	56.7	54.6	54.1	50.7	54.6	53.6	53.9	100.0
Oil	22.3	23.4	23.3	24.0	22.8	22.7	21.7	23.0	22.8	23.2	43.1
Gas	19.9	19.9	19.4	18.6	17.7	17.6	16.0	18.2	17.9	17.7	32.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	10.9	11.1	11.1	11.1	11.1	10.8	10.7	11.1	10.7	10.9	20.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	2.5	2.5	2.6	2.9	3.0	2.9	2.3	2.2	2.1	2.0	3.8
Electricity generation, by source	11.9	12.5	12.6	12.5	13.1	12.6	12.5	13.2	12.6	12.8	100.0
Oil	1.5	1.7	1.7	0.9	0.7	0.3	0.6	0.6	1.3	1.4	11.2
Gas	5.8	6.1	6.5	7.1	7.8	7.4	7.6	8.2	6.7	6.1	47.3
Coal	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	1.1
Nuclear	0.5	0.6	0.7	0.5	0.6	0.7	0.9	0.9	0.7	0.8	6.4
Hydro	3.6	3.6	3.3	3.6	3.6	3.2	2.1	1.7	2.0	2.6	20.6
Biomass	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	1.6
Wind	0.1	0.1	0.0	0.1	0.1	0.4	0.8	1.1	1.2	1.2	9.7
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	2.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	55.5	56.9	56.5	56.7	54.6	54.1	50.7	54.6	53.6	53.9	100.0
Industry	12.9	13.2	12.5	12.3	12.4	12.7	12.2	12.0	11.5	11.8	21.8
Transport	17.1	18.2	18.2	19.1	17.9	17.7	15.7	16.6	17.0	17.0	31.6
Residential/Commercial	18.2	18.5	18.8	18.0	17.3	16.7	16.4	19.0	18.3	18.2	33.8
Oil final consumption, by sector	22.3	23.4	23.3	24.0	22.8	22.7	21.7	23.0	22.8	23.2	100.0
Industry	0.8	0.8	0.8	0.7	0.6	0.7	0.6	0.7	0.4	0.4	1.7
Transport	13.7	14.6	14.7	15.5	14.6	14.4	13.2	13.6	14.0	14.2	61.3
Residential/Commercial	1.8	1.8	1.7	1.6	1.6	1.6	1.4	1.8	1.8	1.9	8.1
Natural gas final consumption, by sector	19.9	19.9	19.4	18.6	17.7	17.6	16.0	18.2	17.9	17.7	100.0
Industry	6.8	7.1	6.6	6.3	6.3	6.6	6.5	6.3	6.8	7.1	39.8
Transport	2.1	2.2	2.1	1.9	1.7	1.7	1.3	2.1	1.8	1.7	9.5
Residential/Commercial	9.7	9.8	10.0	9.3	8.7	8.3	8.2	9.8	9.4	9.0	50.7
Refined products consumption	22.3	23.4	23.3	24.0	22.8	22.7	21.7	23.0	22.8	23.2	100.0
Gasoline	6.0	6.5	6.7	7.3	6.6	6.4	5.3	6.3	6.3	6.5	28.2
Diesel	10.8	11.4	11.2	11.7	11.3	11.3	10.9	10.7	11.3	11.1	47.8
Heating Oil	0.4	0.4	0.2	0.1	0.2	0.4	0.8	1.1	0.1	0.1	0.4
Aviation Jet	0.5	0.5	0.5	0.6	0.5	0.5	0.2	0.2	0.4	0.5	2.4
LPG	1.9	1.9	1.9	1.8	1.7	1.7	1.4	1.8	1.9	2.1	8.9
Imports	14.2	13.1	13.2	13.5	11.4	7.9	6.9	11.8	11.0	7.7	100.0
Oil	4.8	4.4	4.9	4.9	4.4	3.0	1.7	4.4	6.4	3.9	51.1
Gas	9.4	8.7	8.3	8.6	7.0	4.9	5.2	7.4	4.6	3.8	48.9
Gasoline	0.3	0.0	0.2	0.3	0.5	0.4	0.1	0.5	0.9	0.8	10.3
Diesel	3.2	3.3	3.6	3.1	2.7	2.0	1.4	3.4	4.3	2.6	33.6
Heating Oil	0.5	0.0	0.0	0.0	0.2	0.2	0.0	0.3	0.8	0.4	4.8
Aviation Jet	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.5
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	4.4	4.0	4.6	3.8	7.2	7.7	7.1	6.3	11.0	13.0	100.0
Oil	4.3	3.9	4.6	3.7	6.9	7.5	7.0	5.5	9.2	10.7	82.6
Gas	0.0	0.1	0.0	0.1	0.3	0.2	0.1	0.8	1.8	2.3	17.4
Gasoline	0.0	0.0	0.0	0.0	0.8	0.9	0.1	0.1	0.0	0.0	0.0
Diesel	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.2	0.0	0.0	0.4	0.6	0.8	0.5	0.1	0.8	0.8	6.3
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	1.0	0.9	1.0	1.0	1.2	1.3	1.1	1.0	1.2	1.3	10.0
CO₂ Emissions (Million tons CO₂)	181.1	188.7	187.5	184.8	174.2	166.8	157.3	185.1	173.1	165.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	214.5	217.6	220.9	211.6	204.9	200.2	209.7	223.5	198.5	192.9	-
Final energy intensity (toe/million \$15ppp)	61.6	62.1	62.9	61.1	60.5	61.1	63.6	62.3	58.3	59.4	-
Total energy intensity (toe/million \$15ppp)	95.3	94.6	96.6	92.8	92.3	94.3	97.5	98.3	93.1	92.5	-

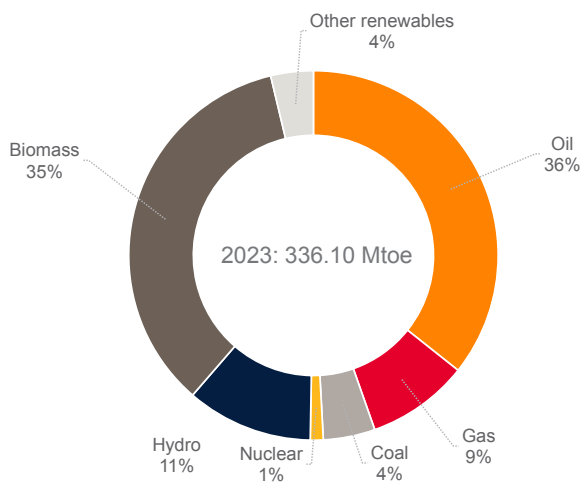
*Heat is included



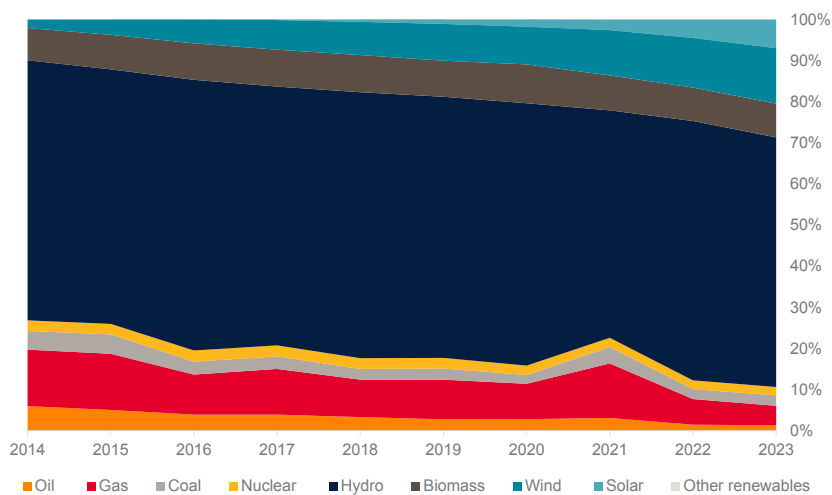
Brazil (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	321.9	315.9	304.7	309.2	304.2	309.6	305.3	323.6	325.3	336.1	100.0
Oil	128.4	119.5	112.6	114.4	107.0	108.7	103.7	109.7	114.2	119.5	35.5
Gas	34.1	33.7	28.9	30.3	29.0	28.8	26.5	36.7	30.1	29.9	8.9
Coal	19.6	19.7	17.8	18.3	18.0	17.0	15.5	19.0	15.5	15.2	4.5
Nuclear	4.0	3.8	4.1	4.1	4.1	4.2	3.7	3.8	3.8	3.8	1.1
Hydro	32.1	30.9	32.8	31.9	33.5	34.2	34.1	31.2	36.7	37.1	11.0
Biomass	99.7	103.4	102.2	103.2	105.2	109.0	113.9	112.5	113.0	116.9	34.8
Other renewables	1.1	1.9	2.9	3.7	4.5	5.4	5.8	7.7	9.6	12.5	3.7
Electricity balance of trade*	2.9	3.0	3.5	3.1	3.0	2.1	2.1	3.0	2.2	1.4	0.4
Total final consumption, by source	251.7	247.0	240.0	244.1	238.0	239.9	237.8	251.1	259.9	269.4	100.0
Oil	114.3	108.0	102.7	104.0	98.1	99.6	94.0	99.6	105.0	110.1	40.9
Gas	11.8	12.0	11.6	11.3	11.6	10.6	9.1	11.4	12.0	12.7	4.7
Coal	13.7	13.7	12.1	13.3	13.7	12.5	11.8	13.5	12.9	12.1	4.5
Electricity	43.3	42.4	42.3	42.9	43.6	44.1	43.7	45.7	47.1	49.0	18.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	1.1	0.4
Biomass	68.6	71.0	71.4	72.6	71.0	73.2	79.2	79.9	81.7	84.4	31.3
Electricity generation, by source	50.8	50.0	49.8	50.7	51.7	53.9	53.4	56.4	58.2	61.0	100.0
Oil	3.0	2.5	1.9	2.0	1.7	1.5	1.5	1.8	0.9	0.8	1.3
Gas	7.0	6.8	4.9	5.6	4.7	5.2	4.6	7.5	3.6	2.9	4.7
Coal	2.3	2.4	1.6	1.5	1.4	1.4	1.2	2.3	1.4	1.5	2.5
Nuclear	1.3	1.3	1.4	1.4	1.3	1.4	1.2	1.3	1.3	1.2	2.0
Hydro	32.1	30.9	32.8	31.9	33.5	34.2	34.1	31.2	36.7	37.1	60.7
Biomass	4.0	4.2	4.4	4.6	4.7	4.7	5.1	4.8	4.7	5.0	8.2
Wind	1.1	1.9	2.9	3.6	4.2	4.8	4.9	6.2	7.0	8.2	13.5
Solar	0.0	0.0	0.0	0.1	0.3	0.6	0.9	1.4	2.6	4.2	6.9
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	251.7	247.0	240.0	244.1	238.0	239.9	237.8	251.1	259.9	269.4	100.0
Industry	95.5	92.9	92.8	93.5	87.6	85.7	91.1	96.6	100.5	101.9	37.8
Transport	90.5	88.6	84.3	84.6	83.9	86.6	81.0	87.4	91.7	96.7	35.9
Residential/Commercial	39.0	39.0	38.6	39.3	40.8	41.4	41.1	41.3	42.5	44.4	16.5
Oil final consumption, by sector	114.3	108.0	102.7	104.0	98.1	99.6	94.0	99.6	105.0	110.1	100.0
Industry	12.6	11.5	10.8	10.6	9.3	9.8	9.2	9.4	11.2	12.0	10.9
Transport	73.7	68.9	66.3	66.3	62.7	63.2	59.8	64.4	68.5	71.7	65.1
Residential/Commercial	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.2	7.1	7.2	6.5
Natural gas final consumption, by sector	11.8	12.0	11.6	11.3	11.6	10.6	9.1	11.4	12.0	12.7	100.0
Industry	9.2	9.4	9.0	8.5	8.7	7.9	6.8	8.7	9.1	9.7	75.9
Transport	1.5	1.5	1.5	1.6	1.8	1.9	1.6	1.9	2.0	2.1	16.5
Residential/Commercial	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	5.2
Refined products consumption	114.3	108.0	102.7	104.0	98.1	99.6	94.0	99.6	105.0	110.1	100.0
Gasoline	26.0	23.5	24.4	25.1	21.8	21.7	20.3	22.3	24.4	26.1	23.7
Diesel	50.5	48.7	43.9	44.2	43.7	44.5	44.2	46.1	47.9	49.9	45.3
Heating Oil	3.6	2.9	2.8	2.8	2.2	2.2	2.1	2.2	2.2	2.1	1.9
Aviation Jet	3.8	3.8	3.5	3.5	3.6	3.5	2.0	2.6	3.2	3.1	2.8
LPG	8.1	8.0	8.0	8.0	8.0	7.9	8.1	8.2	8.1	8.2	7.4
Imports	59.5	52.5	40.6	45.1	44.2	45.4	39.9	50.2	50.1	45.5	100.0
Oil	43.4	37.2	30.9	36.1	35.3	37.3	31.9	35.4	42.3	40.0	87.8
Gas	16.1	15.3	9.8	8.9	8.8	8.2	8.0	14.8	7.7	5.6	12.2
Gasoline	1.6	2.3	3.0	3.5	2.5	3.8	3.8	2.1	3.2	3.0	6.5
Diesel	10.0	6.1	7.5	11.5	10.3	11.5	10.6	12.3	12.3	11.2	24.5
Heating Oil	0.4	0.3	0.1	0.1	0.3	0.1	0.0	0.6	0.2	0.1	0.1
Aviation Jet	1.3	1.2	0.8	0.5	0.8	0.9	0.3	0.3	1.1	0.8	1.8
LPG	2.2	1.9	2.1	2.0	2.1	2.1	2.2	2.4	2.1	1.8	3.8
Exports	33.5	44.2	49.7	60.0	64.5	72.4	84.9	76.7	82.9	97.4	100.0
Oil	33.5	44.2	49.7	60.0	64.5	72.4	84.9	76.7	82.9	97.4	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	0.3	0.5	0.6	0.4	1.1	1.6	1.8	1.4	0.4	1.1	1.1
Diesel	0.4	0.1	0.4	0.4	0.8	0.0	0.3	0.0	0.1	0.3	0.3
Heating Oil	4.7	4.0	3.3	3.5	4.9	5.6	10.1	9.2	11.0	10.5	10.8
Aviation Jet	0.1	0.1	0.1	0.1	0.4	0.1	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
CO₂ Emissions (Million tons CO₂)	502.4	480.3	434.4	440.9	417.8	417.9	394.3	451.4	438.2	451.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	160.8	159.3	149.0	149.2	138.9	137.3	133.9	146.0	137.8	138.0	-
Final energy intensity (toe/million \$15ppp)	75.7	77.1	77.5	77.8	74.7	74.4	76.9	77.2	78.0	78.4	-
Total energy intensity (toe/million \$15ppp)	103.0	104.8	104.5	104.6	101.2	101.7	103.7	104.7	102.3	102.7	-

*Heat is included

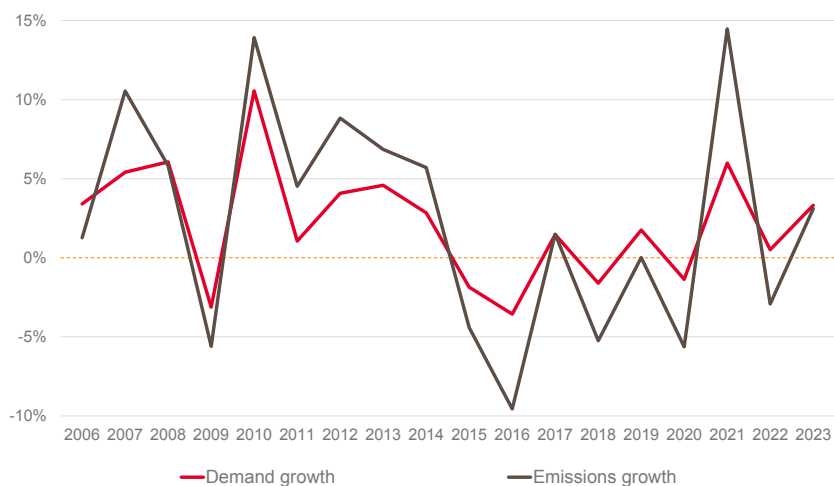
Primary energy demand mix



Electricity generation by source



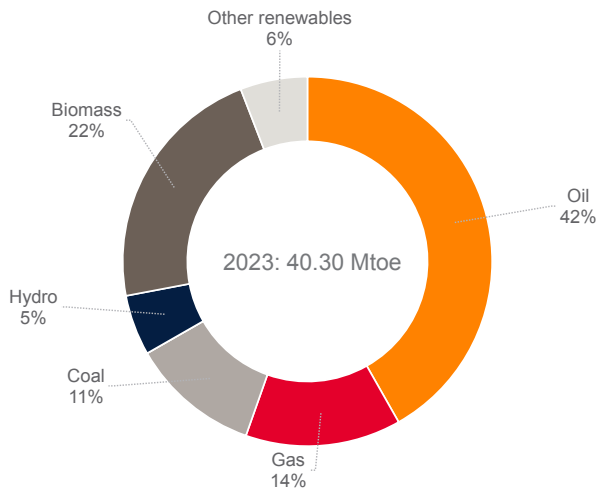
Primary energy demand and CO₂ emissions growth



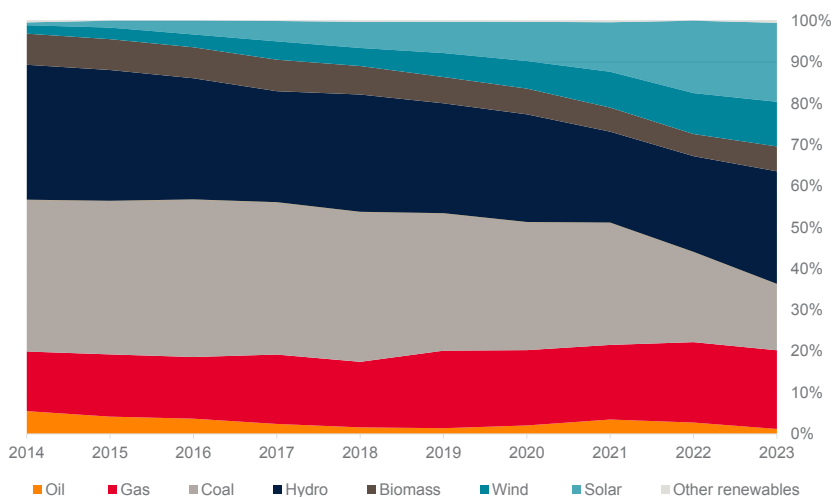
Chile (Million toe)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	35.5	36.4	38.7	39.2	40.0	42.3	38.4	40.9	42.3	40.3	100.0
Oil	15.2	15.1	15.9	15.8	16.1	16.3	15.0	16.1	17.4	16.6	41.3
Gas	3.6	4.0	4.3	4.3	4.4	5.3	4.8	5.3	5.6	5.4	13.5
Coal	6.6	7.3	7.9	8.0	7.9	9.0	7.3	7.6	6.1	4.5	11.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.0	2.1	2.0	1.8	2.0	1.9	1.9	1.7	1.8	2.1	5.2
Biomass	7.8	7.7	8.1	8.5	8.6	8.6	8.0	8.3	8.7	8.8	21.9
Other renewables	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.2	2.3	5.8
Electricity balance of trade*	0.1	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.4	1.1
Total final consumption, by source	24.9	25.0	26.5	26.8	28.0	28.2	26.9	27.4	29.1	28.9	100.0
Oil	13.4	13.6	14.6	15.0	15.3	15.1	14.3	15.1	16.0	15.8	54.6
Gas	1.3	1.5	1.7	1.7	2.0	2.4	2.1	2.2	2.5	2.4	8.2
Coal	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.7
Electricity	5.8	5.8	6.0	6.0	6.3	6.4	6.4	6.6	6.9	7.0	24.1
Heat	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Biomass	4.2	3.8	3.9	3.8	4.2	4.1	3.9	3.3	3.4	3.5	12.0
Electricity generation, by source	6.1	6.5	6.8	6.8	7.1	7.3	7.2	7.6	7.7	7.8	100.0
Oil	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.2	0.1	1.2
Gas	0.9	1.0	1.0	1.1	1.1	1.4	1.3	1.4	1.5	1.5	19.1
Coal	2.2	2.4	2.6	2.5	2.6	2.4	2.2	2.2	1.7	1.2	16.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.0	2.1	2.0	1.8	2.0	1.9	1.9	1.7	1.8	2.1	27.2
Biomass	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	6.0
Wind	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	0.8	10.8
Solar	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.4	1.5	19.1
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	24.9	25.0	26.5	26.8	28.0	28.2	26.9	27.4	29.1	28.9	100.0
Industry	10.4	10.5	10.6	10.0	10.5	10.5	10.2	9.8	10.5	10.5	36.3
Transport	8.0	8.4	8.7	9.1	9.4	9.5	8.4	9.2	9.9	9.7	33.5
Residential/Commercial	5.7	5.6	6.3	6.5	6.6	6.6	6.5	6.8	7.0	7.0	24.2
Oil final consumption, by sector	13.4	13.6	14.6	15.0	15.3	15.1	14.3	15.1	16.0	15.8	100.0
Industry	3.6	3.8	3.8	3.5	3.5	3.5	3.5	3.6	3.8	3.8	24.0
Transport	7.8	8.3	8.6	9.0	9.3	9.4	8.3	9.1	9.7	9.5	60.5
Residential/Commercial	1.2	1.2	1.6	1.7	1.8	1.7	1.6	1.8	1.8	1.8	11.3
Natural gas final consumption, by sector	1.3	1.5	1.7	1.7	2.0	2.4	2.1	2.2	2.5	2.4	100.0
Industry	0.6	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	42.1
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Residential/Commercial	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	28.4
Refined products consumption	13.4	13.6	14.6	15.0	15.3	15.1	14.3	15.1	16.0	15.8	100.0
Gasoline	3.2	3.3	3.5	3.5	3.5	3.6	2.9	3.6	3.9	3.7	23.7
Diesel	6.6	7.4	7.9	8.1	8.4	8.4	8.1	8.3	8.7	8.6	54.3
Heating Oil	0.9	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	3.3
Aviation Jet	0.4	0.6	0.5	0.5	0.6	0.7	0.4	0.4	0.6	0.6	3.9
LPG	1.4	1.1	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.7	10.8
Imports	19.1	19.2	20.5	20.4	20.7	21.5	19.3	21.4	23.3	22.8	100.0
Oil	16.2	16.0	16.8	16.9	17.3	17.4	15.5	17.2	18.7	18.5	80.8
Gas	2.9	3.1	3.7	3.5	3.5	4.0	3.8	4.3	4.6	4.4	19.2
Gasoline	0.5	0.5	0.5	0.6	0.6	0.3	0.4	0.8	1.7	0.9	3.8
Diesel	5.0	5.3	5.7	5.3	5.6	5.6	5.9	6.0	7.4	6.6	29.0
Heating Oil	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.4	0.5	0.6	0.7	0.6	0.5	0.2	0.5	0.6	0.5	2.2
LPG	1.0	0.9	1.2	1.2	1.2	1.1	1.2	1.4	1.4	1.3	5.6
Exports	0.6	0.5	0.7	0.7	0.9	0.5	0.6	0.9	1.0	1.5	100.0
Oil	0.6	0.5	0.4	0.5	0.7	0.5	0.6	0.9	1.0	1.5	100.0
Gas	0.0	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
Diesel	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.3	0.9	59.2
Heating Oil	0.1	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.4	0.2	13.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.3	0.3	19.9
CO₂ Emissions (Million tons CO₂)	77.7	81.8	86.7	88.1	87.5	93.4	86.5	90.8	89.7	80.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	195.7	201.8	210.1	210.7	201.3	213.3	210.3	197.6	190.5	170.4	-
Final energy intensity (toe/million \$15ppp)	61.1	61.1	62.8	62.8	62.7	62.4	62.9	57.6	59.6	59.2	-
Total energy intensity (toe/million \$15ppp)	89.3	89.9	93.8	93.8	92.0	96.6	93.3	89.1	89.8	85.4	-

*Heat is included

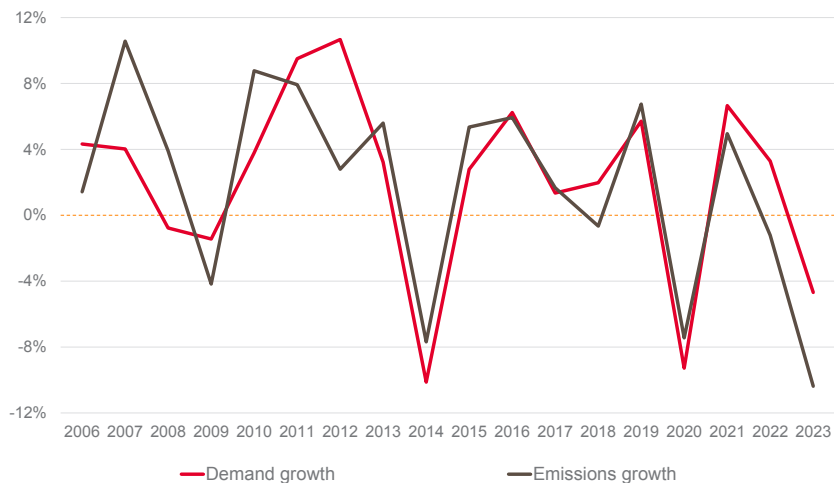
Primary energy demand mix



Electricity generation by source



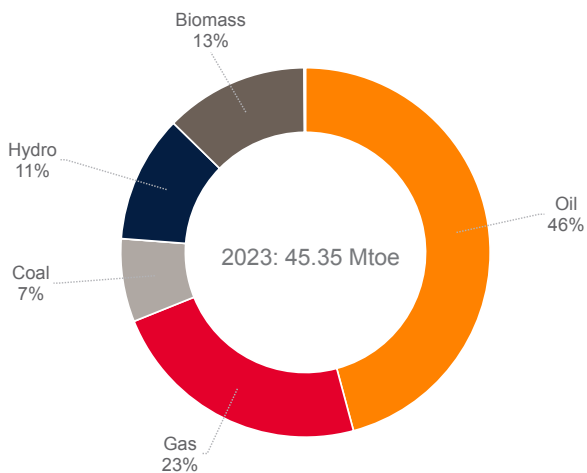
Primary energy demand and CO₂ emissions growth



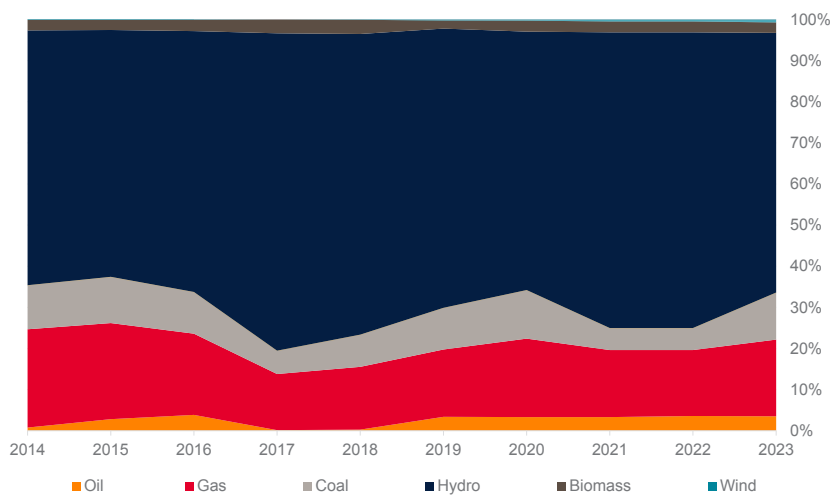
Colombia <i>(Million toe)</i>	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Share in 2023 (%)
Total primary energy demand, by source	40.6	41.2	41.3	39.3	38.7	42.6	39.7	41.9	43.3	45.3	100.0
Oil	15.1	15.6	16.2	14.9	14.3	17.5	15.6	19.5	20.1	20.8	45.8
Gas	10.4	10.7	10.0	10.0	10.3	10.6	10.5	9.5	10.0	10.5	23.1
Coal	4.7	5.0	5.1	3.7	3.3	4.2	3.8	2.3	2.2	3.3	7.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.9	3.9	4.0	4.9	4.9	4.7	4.3	5.2	5.4	5.0	11.1
Biomass	6.6	6.1	5.9	5.7	5.9	5.6	5.5	5.3	5.6	5.7	12.5
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	-0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.0	0.0	0.0
Total final consumption, by source	32.8	31.7	33.6	31.4	32.2	31.7	28.8	33.1	34.7	35.0	100.0
Oil	14.5	14.5	16.1	14.4	14.3	14.0	12.0	15.2	16.3	16.1	46.2
Gas	4.6	4.3	4.8	4.7	4.7	4.6	4.3	4.6	4.8	4.7	13.6
Coal	2.7	2.0	2.0	2.1	2.3	2.0	1.9	2.0	1.8	1.8	5.0
Electricity	5.1	5.2	5.2	5.4	5.4	5.9	5.7	6.2	6.5	7.0	20.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	6.0	5.6	5.5	4.8	5.5	5.2	4.9	5.1	5.3	5.3	15.3
Electricity generation, by source	6.2	6.4	6.4	6.4	6.7	6.9	6.8	7.3	7.6	8.0	100.0
Oil	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.3	0.3	3.5
Gas	1.5	1.5	1.3	0.9	1.0	1.1	1.3	1.2	1.2	1.5	18.6
Coal	0.7	0.7	0.6	0.4	0.5	0.7	0.8	0.4	0.4	0.9	11.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.9	3.9	4.0	4.9	4.9	4.7	4.3	5.2	5.4	5.0	63.1
Biomass	0.2	0.2	0.2	0.2	0.2	0.1	0.2	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	0.1	0.6
Other renewables	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	32.8	31.7	33.6	31.4	32.2	31.7	28.8	33.1	34.7	35.0	100.0
Industry	9.6	8.5	8.9	8.6	9.5	9.1	8.6	9.5	9.8	9.9	28.2
Transport	11.5	12.5	13.1	12.0	12.4	11.2	9.7	12.4	13.1	12.9	37.0
Residential/Commercial	7.9	7.8	7.8	7.8	8.0	8.0	7.9	8.0	8.3	8.6	24.6
Oil final consumption, by sector	14.5	14.5	16.1	14.4	14.3	14.0	12.0	15.2	16.3	16.1	100.0
Industry	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.7	0.8	0.8	5.1
Transport	10.2	11.2	11.9	10.9	11.2	10.0	8.6	11.2	11.8	11.6	72.1
Residential/Commercial	0.5	0.5	0.5	0.4	0.6	0.5	0.5	0.6	0.7	0.7	4.2
Natural gas final consumption, by sector	4.6	4.3	4.8	4.7	4.7	4.6	4.3	4.6	4.8	4.7	100.0
Industry	2.3	2.1	2.6	2.6	2.5	2.4	2.2	2.3	2.5	2.4	50.5
Transport	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.5	9.6
Residential/Commercial	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.7	36.7
Refined products consumption	14.4	14.5	16.1	14.4	14.3	14.0	12.0	15.2	16.3	16.1	100.0
Gasoline	5.4	6.0	6.7	5.8	6.0	5.5	4.7	6.2	6.6	6.3	38.9
Diesel	7.1	6.7	6.7	6.0	6.5	5.8	5.2	6.6	7.1	7.2	44.7
Heating Oil	0.1	0.2	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.2	1.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.8	0.9	0.8	5.0
Imports	8.5	5.4	8.0	9.6	6.2	5.6	4.3	6.1	6.2	6.2	100.0
Oil	8.5	5.4	8.0	9.6	6.2	5.4	4.0	6.0	6.1	6.0	97.2
Gas	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.2	2.8
Gasoline	1.7	0.8	1.8	1.7	1.3	1.1	1.4	2.5	2.6	2.4	39.1
Diesel	3.7	2.1	3.1	1.0	0.6	1.2	1.2	1.2	1.1	1.0	16.7
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	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
LPG	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
Exports	46.9	45.2	38.2	39.4	37.6	35.4	34.8	30.3	26.0	29.3	100.0
Oil	46.1	44.9	38.2	39.4	37.6	35.4	34.8	30.3	26.0	29.3	100.0
Gas	0.8	0.3	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	0.7	0.1	0.0	0.2	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.7	0.9	1.6	2.1	2.4	1.9	1.5	2.1	7.0
Heating Oil	2.8	2.0	2.3	2.0	1.6	1.6	1.2	1.4	1.5	2.1	7.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	83.5	84.3	88.5	76.2	78.5	79.5	75.3	81.0	81.9	85.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	136.4	133.7	137.5	116.9	117.4	115.2	117.6	113.9	107.2	111.8	-
Final energy intensity (toe/million \$15ppp)	51.4	48.6	49.2	45.7	46.6	42.8	43.0	44.3	43.1	43.2	-
Total energy intensity (toe/million \$15ppp)	66.3	65.4	64.2	60.2	57.9	61.7	62.0	59.0	56.7	59.0	-

*Heat is included

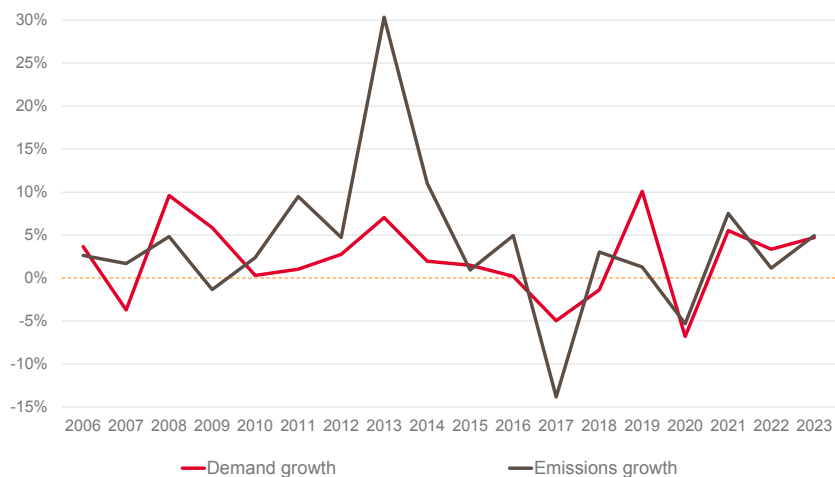
Primary energy demand mix



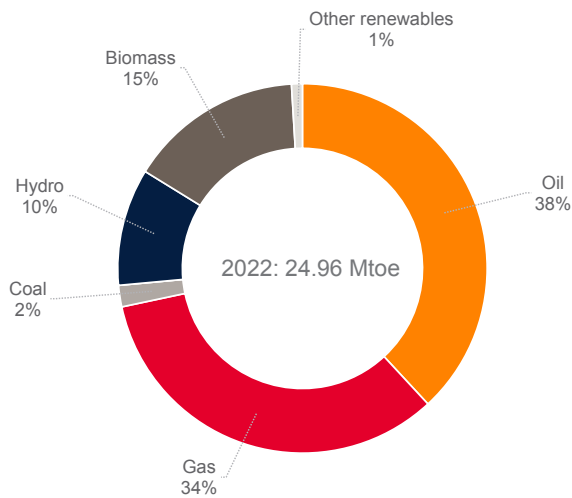
Electricity generation by source



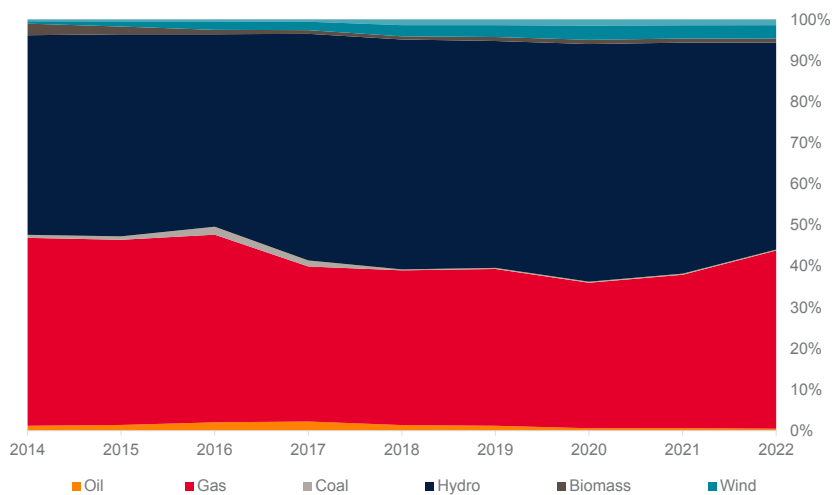
Primary energy demand and CO₂ emissions growth



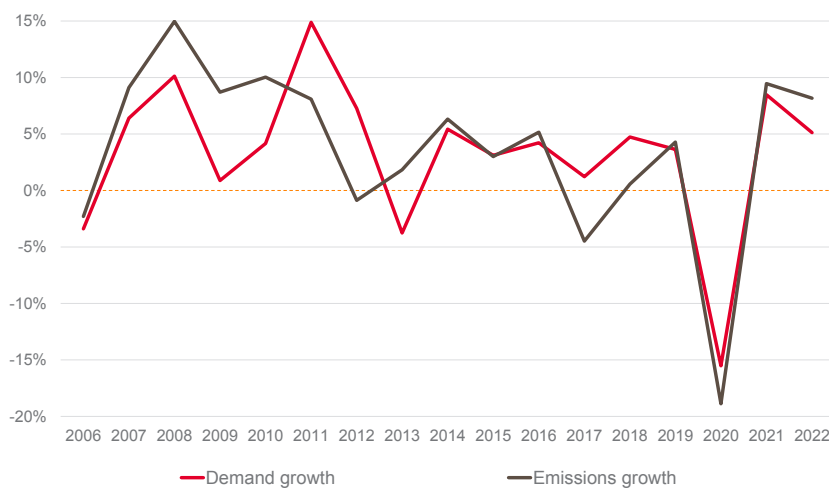
Primary energy demand mix



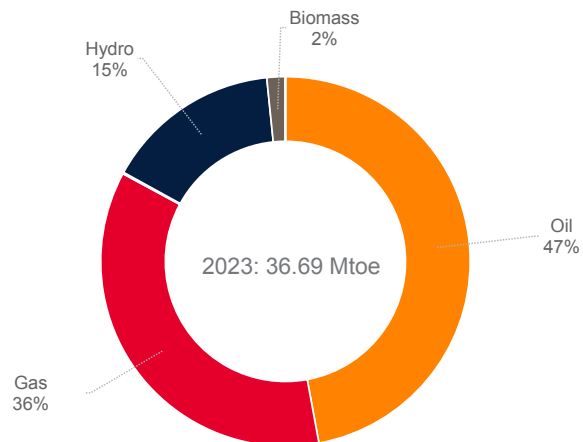
Electricity generation by source



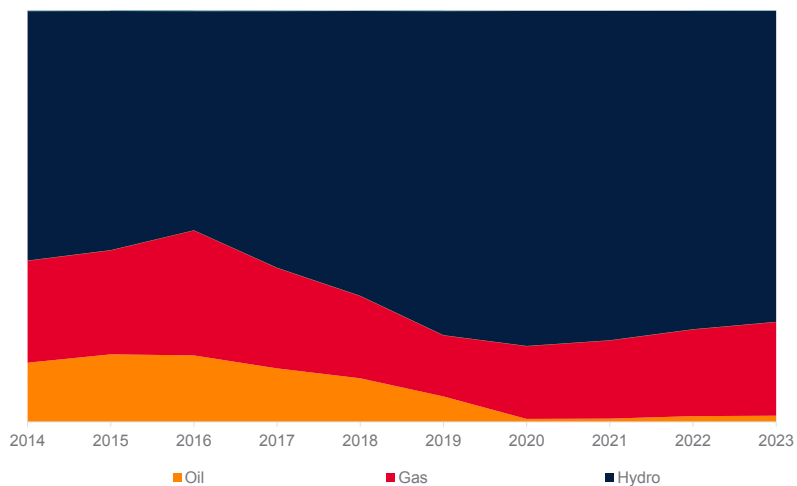
Primary energy demand and CO₂ emissions growth



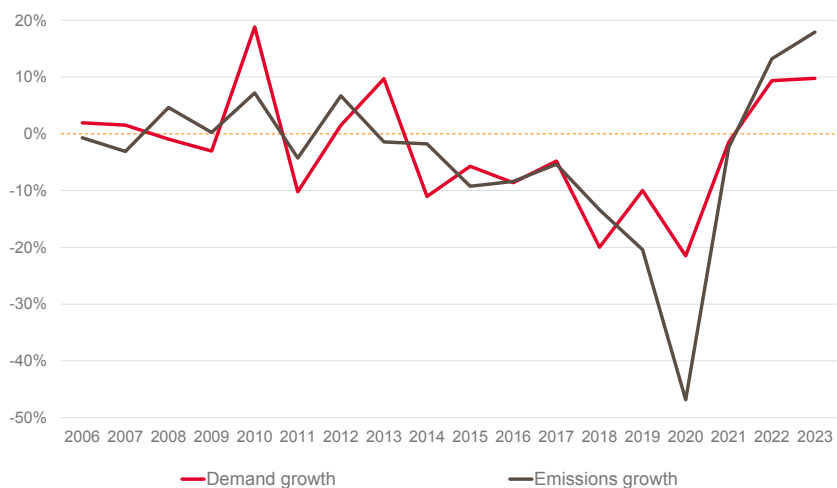
Primary energy demand mix



Electricity generation by source



Primary energy demand and CO₂ emissions growth





Conversion
Factors

Conversion Factors

Crude oil

From ↓	Multiplier to convert to ↓				
	tonnes	10 ³ litres	barrels	U.S. gallons	tonnes/year
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	3.25E-03	3.80E-03	2.38E-02	1.00	–
barrels per day	–	–	–	–	49.80

Note: based on worldwide average gravity.

Products

	Multiplier to convert from ↓			
	barrels to tonnes	tonnes to barrels	10 ³ litres to tonnes	tonnes to 10 ³ litres
Liquefied petroleum gas (LPG)	0.09	11.50	0.55	1.83
Gasoline	0.12	8.30	0.76	1.32
Kerosene	0.13	7.80	0.81	1.24
Gas oil/Diesel	0.13	7.60	0.83	1.21
Fuel oil	0.15	6.60	0.95	1.05
Product basket	0.11	8.70	0.72	1.38

Note: Approximate conversion factors.

Natural Gas an Liquefied Natural Gas (LNG)

From ↓	Multiplier to convert to ↓				
	Bcm NG	Bcf NG	Million toe	Million ton. LNG	Million boe
Bcm NG	1.00	35.30	0.90	0.74	6.52
Bcf NG	2.80E-02	1.00	2.55E-02	2.08E-02	1.87E-01
Million toe	1.12	39.24	1.00	0.82	7.33
Million ton. LNG	1.36	48.03	1.22	1.00	8.97
Million boe	1.53E-01	5.35	1.36E-01	1.11E-01	1.00

Note:

Bcm = billion cubic meter

Bcf = billion cubic feet

toe = tonnes oil equivalent

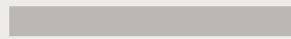
boe = barrels oil equivalent

Energy

From ↓	Multiplier to convert to ↓			
	TWh	Million toe	Bcm NG	Terajules
TWh	1.00	8.60E-02	9.66E-02	3.60E+03
Million toe	11.63	1.00	1.12	4.19E+04
Bcm NG	10.35	0.89	1.00	3.73E+04
Terajules	2.78E-04	2.39E-05	2.68E-05	1.00

Note: Approximate conversion factors.

TWh = Terawatt-hour



Glossary

Definitions

Total Primary Energy Demand

Primary consumption is the sum of primary production, external trade, bunkers and stock variations. The aggregation of primary consumption for all products measures the total energy consumption for a country, including all the losses and own consumptions within the transformation process.

Primary Production

Primary production measures the quantity of natural energy resources extracted and produced for consumption in original state, at the site of production or elsewhere, or for later transformation into other forms. It excludes the quantities which are not used for energy or transformation purposes, particularly the quantities flared, reinjected into the wells, or disposed of in original form into the environment. However own consumption at the site of production is included (auxiliary electricity generation for example): that is why it is defined as gross primary production. Hydroelectric, geothermal, wind, solar and nuclear production of electricity are all considered primary productions.

Reserves for crude oil

Proved reserves on 31/12 of both conventional and non-conventional crude oil. Volumes of crude oil recoverable under existing economic and operating conditions. Canadian reserves include oil sands while Venezuelan reserves include extra-heavy oil.

Reserves for gas

Proved reserves on 31/12. Volumes of natural gas recoverable under existing economic and operating conditions. These reserves do not include unconventional gas except for Canada, USA, Australia and China for which CBM and/or shale gas proven reserves are incorporated.

Production

Energy production always corresponds to gross domestic production. It consists of primary and secondary gross production, except for natural gas for which production corresponds to marketed production.

R/P ratio

Reserves measured in years, according to the current production level.

Domestic Consumption

Domestic consumption is the balance of production, external trade, stock variation, statistical differences and

return and transfers. For oil, marine and aviation bunkers are excluded for countries. They are included at the world level. It is mainly divided between power plants, industry, transport and the residential and tertiary sectors; one part is used or lost in the energy transformation.

Electricity generation

Energy production always corresponds to gross domestic production. It consists of primary and secondary gross production, except for natural gas for which production corresponds to marketed production.

Final Energy Consumption

Final consumption is the difference between domestic consumption and the consumption in energy transformations, and the losses involved. Final consumption measures the needs of the final consumers of the country. They are broken down into several sectors: industry, transport, residential, tertiary, agriculture and non-energy uses. Final energy consumption is the sum of Oil, Gas, Coal, Electricity, Heat (including geothermal and solar heat) and Biomass final consumption of the sectors. For oil, marine and aviation bunkers are excluded for countries.

Industry

Final consumption of industry includes the final consumption of 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

The final consumption of transport is the total consumption of 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

This sector includes the 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]).

Imports

Imports are the quantities of energy products imported from abroad into the national territory, deductions being made for quantities simply in transit destined for other countries and those quantities which are processed within the national boundaries on behalf of another country. In the case of geographic or geopolitical zones, the imports are taken as the aggregations of the various national totals, including the imports which arise from trade within the zone. In the dashboard, Total import is the sum of Oil and Gas imports.

Exports

Exports are the quantities of energy product exported from the national territory to foreign countries, deductions being made for products simply in transit and quantities processed on behalf of other countries. In the case of geographic or geopolitical zones, exports are the aggregations of national exports, including those which arise within the zone. In the dashboard, Total export is the sum of Oil and Gas exports.

CO₂ emissions

Emissions estimated using the IPCC Reference Approach. The Reference Approach is a top-down approach, using a country's energy supply data to calculate the emissions of CO₂ from combustion of mainly fossil fuels. The Reference approach is a straightforward method that can be applied on the basis of relatively easily available energy supply statistics. Excluded carbon has increased the requirements for data to some extent. However, improved comparability between the sectoral and reference approaches continues to allow a country to produce a second independent estimate of CO₂ emissions from fuel combustion with limited additional effort and data requirements.

Renewables Share in Power Generation

Share of renewable in electricity production.

Share of Other Renewables in Power Generation

Share of other primary electricity renewable in total production of electricity, excluding hydro-electricity.

Final energy intensity

Energy intensity corresponds to the final energy consumption necessary to produce one unit of Gross Domestic Product (GDP). Non energy uses are excluded. Here, it is measured in terms of purchasing power parities.

Total energy intensity

Energy intensity corresponds to the primary energy consumption necessary to produce one unit of Gross

Domestic Product (GDP). Non energy uses are excluded. Here, it is measured in terms of purchasing power parities.

Other renewables

Calculated by difference. It is equal to the total primary energy demand minus the sum of items and minus the balance of trade. [= Total - sum of items - balance of trade.

Electricity balance of trade

The balance of energy trade corresponds to the "energy bill", i.e. the impact on the economy created by energy imports or exports. It is the difference, in monetary units, of energy imports and exports, which varies according to the forms of energy imported and the degree of a country's self-sufficiency. A negative balance means a net exporting country.

Prices

Price all taxes in national currency; for the Euro zone, the prices were converted based on fixed exchange rate of Euro over the whole period. For crude oil: spot price FOB, year average value. For natural gas: year average value.

Purchasing Power Parities

Measures the rate of currency conversion that equalises the purchasing power of different currencies. A given sum of money, when converted into different currencies at the PPP rate, buys the same basket of goods and services in all countries. In other words PPP eliminate the differences in price levels between different countries. In addition they do not fluctuate as exchange rates, which provide a more stable comparison of energy intensities. The prices in national currency were converted on the basis of \$ppp from the rate of purchasing power parity of World Bank. For instance, in 2005 the exchange rate of the Euro (€) was 1US\$ = 0.8€ ; actually 1US\$ in the USA was buying the same basket of goods and services as 0.92€ in France (the cost of life being on average cheaper than in France that year) ; thus the PPP of the Euro in 2005 was 1US\$PPP = 0.92€. In Thailand, as in the majority of developing countries or central and Eastern European countries, the cost of life is much cheaper than in France or in the USA (3 times less) ; thus, in 2005 1US\$ was buying the same basket of goods and services as approximately 16 baths (national currency of Thailand), which means 1US\$PPP = 16 baths, whereas the exchange rate was 1US\$ = 40 baths.

Oil

Oil liquid hydrocarbons, including those from synthesis and liquefaction.

Crude oil, NGL

All liquid hydrocarbons destined for the refinery: crude oil, natural gas liquids and refinery feedstocks.

Crude oil

Hydrocarbonated mineral oil of natural origin, extracted from deposits and marketed. Of variable density and viscosity.

Natural gas liquids (NGL)

Liquid hydrocarbons and/or liquefied recoveries from the processing of natural gas extracted from deposits. Density and viscosity vary according to composition. Also known as "condensates".

Non-conventional oil

Liquid hydrocarbons from oil shales, extra heavy oil (USA, Venezuela) or tar sands (natural bitumen in Canada).

Refinery Feedstocks

Crude oil derivatives and/or derivatives of natural gas liquids, unable to be marketed without further refining. Of variable density and viscosity.

Refined oil products

All liquids hydrocarbons derived from crude oil and natural gas liquids, obtained by refining and processing, conforming to strict market standards in their physical-chemical characteristics, density, viscosity, flash point, degree of octane, etc.

Motor gasoline

All motor fuels except diesel/light fuel oil: two stars petrol, four stars petrol, Eurosuper 95, 4 stars unleaded. The density varies between 0.73 and 0.76. Degree of octane varies according to fuel type (≥ 80 RON).

Diesel and light fuel oil

A heavy fraction, it is virtually identical to domestic or heating fuel; it also similarly incorporates light industrial fuels. In many countries, it is splitted between Automotive Diesel-Oil (ADO) and Industrial Diesel-Oil (IDO). Flash point at 50°C. Density between 0.8 and 0.9.

Heavy fuel oil

Also known as residual fuel, heavy fuel is the residue gained from distilling oil. Generally viscose at ambient temperature. Density always greater than 0.90. Flash point at 50°C.

Liquefied petroleum gas (LPG)

Light fractions in gas form and standard temperature and pressure, marketed in liquefied form: butane (C₃H₈) and propane (C₄H₁₀). Density in liquid form is between 0.50 and 0.58.

Ethane

Gas extracted from refinery gas or natural gas.

Refinery gas

Light fractions, in gas form at ambient temperature and non-condensable, obtained by refining and processing, used in the refinery, resold externally and/or flared.

Jet-fuel

Hydrocarbon used in airplane turboreactors. Physical-chemical properties similar to lighting kerosene, also known as kerosene. Density around 0.80. Degree of octane between 80 and 145 RON.

Aviation gasoline

Light hydrocarbons used in airplane piston motors. A mix of petrol and kerosene. Density of around 0.75.

Kerosene

Kerosene is a middle distillate, of a density of around 0.80. Flash point at 38°C.

Naphta

Light and medium fractions (between motor gasoline and kerosene) where requirements are specified by the user, notably the petrochemists. This contributes the main bulk of the petrochemical industry.

Lubricants

Complete liquid or viscous hydrocarbons used for their lubricating qualities.

Paraffin

Saturated aliphatic hydrocarbons, solid at ambient temperature. Melting point above 45°C. Density from 0.76 to 0.78.

Petroleum coke

Solid residue, over 90 % carbon. Burns entirely.

Gas

Group of gaseous hydrocarbon and noncondensable, used in gas form, of natural or artificial source.

Natural Gas

Gaseous hydrocarbon in its natural state, marketed after the separation of the liquid fractions which it contains as exit from the wells. Composed essentially of methane (CH₄), natural gas can also include other gases like nitrogen.

Natural gas can be liquefied at very low temperatures and transported in this state. 1 m³ of liquefied gas gives around 600 m³ of gas in gas form. The net calorific value of gas varies according to its methane richness.

LNG (Liquefied Natural Gas)

Natural gas liquefied for transport by sea tankers.

Coal, lignite

Also known as solid fossil fuels, this covers all fossil fuels that are solid in their natural state. According to their carbon content, in water and various minerals, the net calorific value can vary significantly.

Coal

All fossil fuels which are solid in their natural state, of a calorific value > 4,165 Kcal/kg, extracted from deposits and sold in its original state.

Lignite (or brown coal)

All fossil fuels, solid in their natural state, of weak calorific value [NCV < 4,165 kcal/kg].

Coke

Solid fossil fuel derived from coking coal, used in steel industry blast furnaces due to its physical and thermal properties.

Electricity

Electricity produced and transported for commercial purposes, used by ad-hoc devices.

Hydro-electricity

Electricity produced by hydroelectric installations making use of either gravitational pull (dam + reservoir) or water streams (water alongside the flow of water).

Nuclear electricity

Electricity produced by nuclear reactors coupled to alternators.

Thermal

Electricity produced from fuel fired thermal power plants (coal, oil, gas, wood, etc.). Distinction is made for steam turbines, gas turbines and cogeneration power plants (combined steam and electricity production).

Electricity from oil

Electricity produced by thermal power plants running on heavy fuel oil or diesel/light fuel oil.

Electricity from natural gas

Electricity produced from thermal power plants running on natural gas.

Electricity from coal, lignite

Electricity produced from thermal power plants using coal, lignite, manufactured gases, peat and, to a lesser extent, coking coal and BKB.

Electricity from non-conventional energies

Electricity produced from biomass or wastes.

Geothermal

Electricity produced from geothermal power plants.

Wind

Electricity produced from wind power plants.

Solar

Electricity produced from solar power plants or PV.

Heat

Steam produced by a cogeneration electric on heat power plants and marketed by the use of a public distribution network.

Non-conventional energies

All energies that have, for generations, been used in a traditional manner, natural energies used in their natural state, without the intervention of industry, and other energies not classifiable under hydrocarbons, solid fuels, or electricity or steam-heat. Information on the production/ consumption of non-conventional energies are of very unequal quality and are not available for all the countries. The non-conventional energies best documented on the statistical level are wood, bagasse and charcoal; for waste, the information is related to only ten country.

Wood

Wood used in its natural state for energy purposes. Also known as fire wood.

Ethanol

Methylated or ethylated alcohol obtained by distilling vegetable material (sugar cane, sugar beet, wood, etc.) used as an energy product.

Wastes

Includes/understands various types of waste used like fuels.

Biogas

Gas derived from anaerobic fermentation of biomass or solid wastes.

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, 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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Acknowledgements

DATA COMPILATION, AGGREGATION AND VALIDATION

ENERDATA
www.enerdata.net

EDITING AND PRINTING

Department of Communication of Repsol

DIGITAL VISUALIZATION

Kabel
www.kabel.es

