

Annual

Energy-Statistics
2025

repsol

Economic Research Department

About this statistical data book

This publication, prepared by the Repsol Studies Directorate, aims to serve as a reference and consultation tool to support the analysis, discussion, and debate on energy markets in a rigorous and objective manner.

The Energy Statistical Yearbook is published in Spanish and English and is available on Repsol's official website (www.repsol.com), where it can be downloaded in PDF and Excel formats. In addition, the website provides interactive charts through a PowerBI-based visualization, enabling dynamic exploration of the data.

The Yearbook constitutes a comprehensive energy database, with a particular focus on the oil, natural gas, and electricity sectors, as well as on sustainability indicators. It covers the historical evolution from 2005¹ to the most recent estimates for 2024, encompassing 50 countries and 10 regions, and representing over 90% of global energy consumption.

Regarding its content and structure, the publication is organized into three main sections:

1. Energy market overview: A summary of recent developments in the main energy markets—oil, natural gas, and electricity—is presented, together with an analysis of CO₂ emissions at the international level and a specific assessment of the Spanish energy sector.
2. Statistical annex: This section provides detailed information by country and region for the historical period covered, including the following indicators:
 - Oil: reserves, production, consumption, and prices.
 - Natural gas: reserves, production, consumption, and prices.
 - Electricity: total gross generation and the share of renewable sources.
 - CO₂ emissions: total emissions from fossil fuel combustion, intensity relative to GDP, and per capita emissions.
 - Primary energy intensity relative to GDP.
3. Country tables: For each region and country, aggregated energy figures are presented in tabular format, including data on primary and final energy demand (by source and sector), total and source-specific electricity generation, final consumption and hydrocarbon trade, as well as a range of sustainability indicators.

Regarding the methodology, estimates have been developed based on official data sources (governments, leading energy agencies, JODI, among others), following the methodological framework of the International Energy Agency (IEA). The collection, validation, and aggregation of data were carried out with the collaboration of the consulting firm ENERDATA (www.enerdata.net).

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

¹ To facilitate table visualization, this PDF document presents data for the period from 2015 onwards. The downloadable Excel file, available on Repsol's website (<https://www.repsol.com/es/sala-prensa/anuario-energetico/index.cshtml>), contains the complete data series for the period 2005-2024.

Contents

Energy demand recent development	4
CO ₂ emissions recent development	5
Oil market recent development	6
Natural gas market recent development	7
Power generation recent development	8
Spanish energy market recent development	9

STATISTICAL ANNEX

Oil			
Oil Proved Reserves	12	Thailand	78
Oil Production	13	Vietnam	80
Oil Final Consumption	14	EUROPE	82
Natural Gas		Belgium	84
Natural Gas Proved Reserves	18	Czech Republic	86
Natural Gas Production	19	Finland	88
Natural Gas Demand	20	France	90
Oil and Natural Gas prices	24	Germany	92
Electricity Generation		Italy	94
Total Power Generation	26	Netherlands	96
Renewables in Power Generation	27	Norway	98
CO₂ Emissions from Fossil Fuels		Poland	100
Total CO ₂ Emissions	29	Portugal	102
Oil CO ₂ Emissions	30	Romania	104
Natural Gas CO ₂ Emissions	31	Spain	106
Coal CO ₂ Emissions	32	Sweden	108
CO ₂ Emissions Intensity to GDP	33	Turkey	110
CO ₂ Emissions per capita	34	United Kingdom	112
Primary Energy Intensity to GDP	36	FORMER SOVIET UNION	114
Regional and country data		Kazakhstan	116
WORLD	38	Russia	118
OECD	40	Ukraine	120
No-OECD	42	Uzbekistan	122
AFRICA	44	MIDDLE EAST	124
Algeria	46	Iran	126
Angola	48	Iraq	128
Egypt	50	Kuwait	130
Libya	52	Saudi Arabia	132
Nigeria	54	United Arab Emirates	134
South Africa	56	NORTH AMERICA	136
ASIA-PACIFIC	58	Canada	138
Australia	60	Mexico	140
China	62	United States	142
India	64	SOUTH AND CENTRAL AMERICA	144
Indonesia	66	Argentina	146
Japan	68	Brazil	148
Malaysia	70	Chile	150
New Zealand	72	Colombia	152
South Korea	74	Peru	154
Taiwan	76	Venezuela	156
		Conversion Factors	159
		Glossary	
		Definitions	161
		Geographical grouping	165

Energy demand recent development

In 2024, the global economy maintained a moderate growth pace of around 3.3%, according to IMF estimates. This performance, slightly below the 3.5% recorded in 2023, consolidated the recovery from the shocks caused by the pandemic and the 2022 energy crisis, although it still fell short of the dynamism that characterized the decade preceding COVID-19.

The United States once again led growth among advanced economies, expanding by 2.8% (compared with 2.9% in 2023), despite cumulative monetary tightening. Robust domestic demand—supported by a resilient labor market and expansionary fiscal policies—helped sustain economic momentum. In contrast, the euro area, after weak growth of 0.5% in 2023, managed to accelerate only modestly to 0.9% in 2024, weighed down by the persistent weakness of its manufacturing sector—still affected by relatively high energy costs—and subdued private consumption. In China, the recovery lost traction, with growth easing to 5.0% (from 5.4% previously), constrained by continued fragility in the property sector and a consumer confidence that failed to fully normalize.

Global inflation continued to moderate from the 2022–2023 peaks, although it remained above most central banks' targets. This trend allowed a shift in the stance of monetary policy: following the aggressive tightening of the previous two years, in 2024 the focus moved toward maintaining restrictive conditions, and by year-end, a gradual easing cycle had begun. In this environment, the

U.S. dollar remained strong, supported by the relative resilience of the U.S. economy, less aggressive rate-cut expectations, and favorable interest rate differentials.

Against this backdrop, global primary energy consumption rose by 2.3% in 2024, slightly slower than the 2.5% recorded in 2023. Nevertheless, the expansion observed over the past three years significantly exceeded the pre-pandemic decade's annual average of 1.5%. While part of this rebound can be attributed to post-COVID normalization effects, global energy demand had already surpassed 2019 levels by 2021, and by 2024 stood nearly 10% above that benchmark. Overall, these data indicate that the world has entered a phase of energy demand expansion unprecedented since 2005–2010.

The 2.3% increase brought total primary energy demand to 15,890 million tonnes of oil equivalent (toe). Oil accounted for 29.3% of global primary energy consumption, followed by coal at 28.5% and natural gas at 22.9%. Renewable energy continued its upward trend: excluding hydro and biomass, other renewables grew by 16%, reaching 2.5% of total primary energy consumption worldwide.

By region, the OECD recorded a 0.6% increase in primary energy demand in 2024, following two consecutive years of contraction (–1.2% in 2022 and –1.6% in 2023). This rebound reflected growth across most energy sources, except for coal and, to a lesser extent, oil, with notable gains in renewables excluding hydro and biomass (+9.4%). In non-OECD economies, demand expanded by 3.2%, with increases across all energy sources and a particularly strong rise in renewables (excluding hydro and biomass) of +22.3%.

By sector, transport once again led global energy demand growth, rising 3.8%, broadly in line with 3.7% in 2023. The residential and commercial sector grew by 2.6%, while industrial demand increased more modestly, by 0.8% year-on-year. Global energy intensity—the amount of energy required to generate a unit of GDP—continued its downward trend in 2024, as primary energy consumption grew more slowly than the global economy. Over the past decade, global energy intensity has declined by more than 10%, driven by a significant improvement in OECD economies (–18%) and a more moderate reduction in non-OECD countries (–6.8%).

CO₂ emissions recent development

Global CO₂ emissions reached a new all-time high in 2024, after increasing by nearly 1.5% compared with the previous year.

By country, China remained the world's largest emitter, accounting for around 35% of total global emissions, far ahead of the United States (12%), India (9%), the European Union (6%), and Russia (5%).

By fuel type, both oil and natural gas recorded significant increases, reaching levels not seen in recent decades—except for 2021, during the post-pandemic recovery—driven by stronger global economic activity. However, it was coal combustion that accounted for the sharpest rise in emissions, generating more than twice the additional volume seen in oil or gas and marking the fastest growth rate in over a decade.

This surge in coal consumption was concentrated in Asia, particularly in China and India, while usage continued to decline in Europe and North America. In China, despite the commissioning of substantial renewable capacity and favourable hydrological conditions that enabled record

hydroelectric generation, additional coal-fired generation was still required to meet rising electricity demand. A similar trend was observed in India, where the growth in coal-based power generation was surpassed only by the expansion of solar photovoltaic generation. Consequently, both countries reached record levels of thermal generation, with China accounting for 55% and India for 14% of global CO₂ emissions from coal consumption.

In contrast, oil-related CO₂ emissions showed divergent trends. In the European Union, they increased to levels close to those seen in 2019, while in China, they declined sharply due to lower diesel demand, marking the steepest drop in decades and partially offsetting the exceptional surge observed in 2023. Natural gas-related emissions displayed a more homogeneous pattern, with growth across all major regions, led by China and, to a lesser extent, the United States.

Per capita emissions continued to highlight the Gulf countries, especially Qatar and Kuwait, as the highest emitters, maintaining an upward trend. For example, a Qatari citizen emits nine times more CO₂ than the global average, or ninety times more than a Nigerian. Meanwhile, per capita emissions in China remain well below those of the United States, and India's are lower than in any European country. In Spain, population growth offset the rise in total emissions—mainly driven by higher oil consumption—keeping per capita emissions virtually unchanged, close to the minimum reached in 2020 and still below the global average (4.6 t/person vs. 4.9 t/person globally).

Regarding emission intensity (CO₂ emissions per unit of GDP), European countries remain among the most efficient globally, far below most major emitters. As the EU economy expanded in 2024 while emissions declined, this indicator improved both year-on-year and relative to the world average. Currently, CO₂ emissions per dollar of GDP in the EU are 53% below the global average.

¹ The member countries of OPEC are 12: Saudi Arabia, Algeria, the Republic of the Congo, the United Arab Emirates (UAE), Equatorial Guinea, Gabon, Iraq, Iran, Kuwait, Libya, Nigeria, and Venezuela. The non-OPEC countries that cooperate with the organization comprise 10 nations: Azerbaijan, Bahrain, Brunei, Kazakhstan, Malaysia, Mexico, Oman, Russia, Sudan, and South Sudan. Together, these 22 countries form the alliance known as OPEC+.

Oil market recent development

The year 2024 was marked by a context of relative balance in the oil market, the result of moderate global demand and a fragmented supply with contrasting dynamics. On one hand, the member countries of the Organization of the Petroleum Exporting Countries (OPEC) and their non-member allies¹ maintained the voluntary production cuts introduced in 2023; on the other, the rest of the producers—particularly the United States—increased their output, more than offsetting the lower contribution from OPEC+.

Global oil demand reached 103 million barrels per day (mb/d) in 2024, representing an annual increase of 861 thousand barrels per day (kb/d), equivalent to 0.8% growth, a pace noticeably slower than in previous years. From a regional standpoint, the evolution was uneven: non-OECD countries recorded an increase of 1.6%, while OECD demand remained virtually unchanged (-0.02%).

At the national level, China led consumption growth with an increase exceeding 1 mb/d, a figure greater than the combined growth of the next four countries: the United States (+370 kb/d), Saudi Arabia (+280 kb/d), Brazil (+230 kb/d) and India (+139 kb/d).

By product category, demand growth was concentrated in petrochemical feedstocks, which expanded by just over

600 kb/d. Jet/aviation kerosene rose by 400 kb/d, driven mainly by China and other Asian economies that benefited from the final stage of the post-pandemic rebound. In contrast, gasoline consumption increased by only 90 kb/d, while gasoil/diesel demand declined by 160 kb/d, reflecting subdued industrial activity and weaker freight transport.

On the supply side, two divergent trends emerged. OPEC+ countries maintained a policy of output restraint, whereas producers outside the group—led by the United States—expanded production, supported by the resilience of shale oil. Within OPEC+, divergences also became evident: Saudi Arabia, the United Arab Emirates, and Kuwait jointly reduced production by nearly 1.6 mb/d, while Russia, Kazakhstan, and Azerbaijan increased theirs by 450 kb/d, underscoring the gap between pledged cuts and actual output and raising doubts about the group's internal cohesion.

The geopolitical environment also played a decisive role. Tensions in the Middle East reached unprecedented levels following the direct confrontation between Israel and Iran, which, although confined to military targets, heightened market volatility. Meanwhile, the war between Russia and Ukraine continued to reshape crude and product trade flows due to damage to refineries, export terminals, and other energy infrastructure.

Within this framework of relative balance between supply and demand, prices remained stable compared with the previous year. The Brent benchmark averaged \$80.5 per barrel in 2024, slightly below the \$82.5/bbl recorded in 2023.

Looking ahead to 2025, projections point to even more subdued demand growth and a rising risk of oversupply. The OPEC+ policy of gradually reintroducing barrels cut in 2023, combined with trade and tariff tensions among major economies, exerts downward pressure on prices. Nonetheless, a moderate price environment may encourage greater production discipline among both OPEC+ and non-OPEC producers, which has historically contributed to restoring market balance.

Natural gas market recent development

Global gas demand reached its historical peak in 2024 and is expected to continue expanding in 2025, following the gradual rebalancing of markets in 2023.

Global natural gas consumption in 2024 increased by 2.8%. This growth was driven primarily by the Asia-Pacific region, primarily China, due to economic expansion, with the increase of gas consumption in industry and the energy sector. In Europe, a modest recovery in industrial gas demand was observed, although still below pre-crisis levels. Natural gas continues to displace oil and its derivatives in various sectors, such as the electricity generation sector in the Middle East, where gas is replacing oil, or the expansion of LNG-powered trucks in China.

Extreme weather events have also highlighted the important role that gas plays in ensuring the security of heat and electricity supply. The growing share of renewable energy in the energy mix has increased the importance of gas as a backup energy source to ensure the security of electricity supply during times of low renewable energy production, such as in Europe, where low wind speeds caused a sharp drop in wind energy production in the first half of November 2024.

Global production increased by approximately 2% compared to 2023, with the main producers being the US, Russia, China, and Iran, which together account for more than 50% of global production. In Europe, structural decline continues, with some exceptions like Norway.

In 2024, global natural gas trade by pipelines increased due to higher exports from Russia by pipeline to Europe, the CIS (Commonwealth of Independent States) countries,

and China. In Europe, Norway is the largest supplier of pipeline gas, a role that is expected to increase in 2025, as the supply of piped Russian gas is estimated to decrease by 15 bcm compared to 2024 due to the end of transit through Ukraine. This gas is being mainly replaced by LNG imports.

Liquefied natural gas (LNG) is becoming increasingly important globally. The United States remains the world's largest LNG exporter, followed by Qatar and Australia. China remains the largest importer of LNG, with a third of its imports coming from Australia.

In 2024, LNG continued to be affected by restrictions impacting trade routes and costs. These restrictions have continued into 2025. On the one hand, vessel draft restrictions imposed in the Panama Canal due to the drought have continued, although they have improved.

The Middle East conflict, which began with the war between Israel and Hamas in October 2023, continues to significantly affect LNG flows in the Middle East, disrupting transit routes. Attacks have increased maritime security risks and driven up insurance costs. With the occasional exception of some LNG carriers, ships continue to make longer routes through the Cape of Good Hope.

The prices of major global natural gas markers (northeast Asia, North America, and Europe) continued to decline in 2024, by approximately 15% compared to 2023.

The security of natural gas supply remains a key aspect of energy policy and continues to be a global concern. Geopolitical tensions have continued to drive price volatility throughout this year, such as in June when the conflict between Israel and Iran impacted gas prices, reminding us of the fragile balance of the gas market. Prices increased due to fears that an escalation of the conflict could lead to the closure of the Strait of Hormuz by Iran. Furthermore, in the case of gas, the price increase was driven by the disruption of production and physical trade flows (Israel halted gas production at the Leviathan and Karish fields between June 13 and 25 and suspended gas exports by pipeline to Egypt and Jordan).

Natural gas markets are expected to grow in 2025, although global demand growth is slower than expected, as seen in the first half of 2025, mainly due to macroeconomic uncertainty, tighter supply, and relatively high prices, which are affecting natural gas consumption, especially in price-sensitive markets such as Asia.

Power generation recent development

Global electricity generation increased by 4.2% in 2024, marking the highest growth in demand in over a decade, with the exception of the post-pandemic recovery year. This growth was driven primarily by non-OECD countries, particularly China, but also by others such as India and Brazil, while OECD economies experienced much more limited growth. Nevertheless, there was growth recorded in the United States and even across Europe as a whole, despite contractions in major economies in the region, such as Germany and the United Kingdom.

The installation of new wind and solar generation capacity led to a rise in the share of renewables within the electricity generation mix, reaching 31.7% of global

generation in 2024. This figure exceeded the previous year's by 1.7 percentage points, registering the largest increase in the historical series. The increase in solar generation is particularly noteworthy, having risen by almost 30% compared to the previous year. Despite this, it continues to account for only 7% of global electricity production. Wind generation, despite an increase of nearly 8%, remains at 8% of the global generation mix.

Among renewable sources, hydropower continues to be the most significant worldwide, accounting for nearly 15% of global generation. New infrastructure, combined with a favourable hydrological year in certain regions of the world, resulted in record levels of hydropower generation in 2024. However, given the slower pace of new hydropower capacity installation compared to other technologies (less than gas or coal-fired plants, and significantly less than solar or wind), the share of this technology in the global mix continues its downward trend. Despite the increase this year, it has not managed to regain the 15% share of global generation lost the previous year.

Thermal generation increased across all its forms, especially natural gas, which grew by the same absolute amount as wind power (though the percentage increase was much smaller, given its much higher base level). Even coal-fired generation increased by 1%, continuing as the main source of electricity in the global mix, at nearly 35%. Thus, electricity generation from all technologies, with the exception of oil-fired generation, reached record highs.

Spanish energy market recent development

Energy demand in Spain continues to reflect the ongoing challenge of improving energy efficiency and the country's economic growth. This situation is evidenced by increased demand across virtually all energy sources, from oil to electricity.

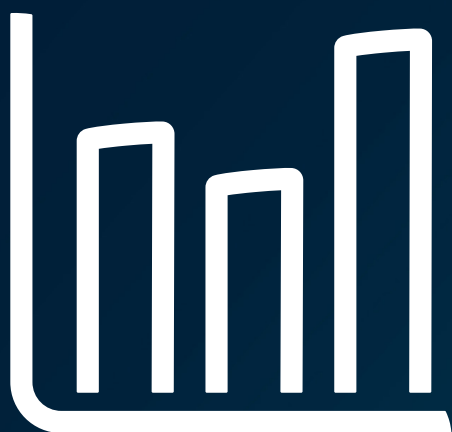
Regarding oil (+4%), which remains the principal energy source in Spain, there has been a significant rise in the consumption of petrol and aviation kerosene. Diesel consumption has also increased, though to a lesser extent, but it still accounts for 60% of petroleum product usage. By sector, the greatest increase in demand naturally occurred in transport, while industry saw a slight decline.

Although total gas consumption in Spain fell (-4%), this was solely due to reduced electricity generation from

combined-cycle plants. Meanwhile, final gas demand rose in all segments, mainly in industry but also, to a lesser degree, in residential/commercial sectors and even in transport (although the latter continues to represent an absolutely marginal share of total gas demand). Despite this rise, high gas prices mean that demand remains below pre-2021 levels.

The 1% increase in electricity demand contrasts with a 0.4% decrease in electricity generation. This is attributable to a reduction in exports, particularly in exchanges with France. After two consecutive years as a net exporter, Spain became a net importer from France in 2024. Meanwhile, the system continued to incorporate additional renewable generation capacity, resulting in a reduced need for fuel-based generation. In the case of coal, usage fell by 25% to a historic low, and natural gas generation declined by nearly 19% to its lowest level in the last decade, causing it to drop from the leading source in the generation mix to fourth place, behind wind, solar, and nuclear. As a result, 58% of electricity generated in 2024 came from renewables, and more than 77% from CO₂-free sources.

The reduction in emissions from lower gas and coal-based electricity generation was not sufficient to offset the increase in emissions from greater oil use, resulting in a slight 0.4% rise in CO₂ emissions compared to the previous year. Nevertheless, Spain remains below the EU average both in per capita emissions and in emissions relative to GDP.



Statistical
annex



Oil

Oil Proved Reserves (Thousand million barrels)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	229.2	253.5	252.4	260.3	259.8	261.8	252.0	257.5	258.8	260.9
Canada	169.4	196.2	194.3	192.5	194.1	193.8	193.9	189.5	189.5	189.5
Mexico	9.6	9.6	8.5	8.0	5.9	5.9	5.6	5.5	5.6	5.4
United States	50.2	47.6	49.6	59.8	59.8	62.0	52.5	62.5	63.7	66.0
South and Central America	233.8	382.5	381.3	381.4	378.4	378.0	379.0	381.0	380.8	381.6
Argentina	2.4	2.4	2.1	2.0	2.0	2.5	2.5	2.8	2.9	3.0
Brazil	12.9	12.5	12.7	13.5	12.6	11.8	13.2	14.8	14.8	15.8
Chile	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Colombia	2.0	1.6	1.6	1.8	1.9	2.0	1.8	2.0	2.1	2.0
Peru	1.4	1.2	1.2	1.0	0.9	0.6	0.8	0.9	0.8	0.8
Trinidad & Tobago	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Venezuela	195.8	345.9	345.9	345.9	345.9	345.9	345.9	345.9	345.6	345.4
Other	18.4	18.4	17.3	16.8	14.7	14.7	14.4	14.3	14.3	14.3
Europe	15.8	15.1	15.9	16.5	16.2	14.4	13.6	13.3	13.1	12.3
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	0.1	0.1	0.1	0.1	0.1
Italy	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Netherlands	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Norway	7.2	7.0	7.9	8.6	8.5	7.7	7.5	7.6	7.6	6.8
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	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
United Kingdom	4.1	3.8	3.7	3.7	3.5	2.5	2.0	1.7	1.4	1.4
EU	3.9	3.7	3.7	3.6	3.6	3.6	3.6	3.4	3.4	3.2
Other	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0
Former Soviet Union	136.3	147.4	144.1	144.1	145.1	146.4	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	97.7	108.8	105.5	105.5	106.5	107.8	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Middle East	799.9	796.1	817.2	816.4	816.7	825.4	833.0	884.2	884.8	884.9
Iran	157.3	156.1	154.5	154.5	154.5	158.2	158.2	207.2	207.2	207.2
Iraq	141.5	147.8	146.2	144.0	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	267.3	258.3	282.5	283.9	284.2	289.2	283.7	283.9	283.9	283.9
United Arab Emirates	97.1	97.1	97.1	97.1	97.1	97.1	110.2	112.2	112.8	112.8
Other	10.8	10.8	10.9	11.0	10.9	10.9	11.0	11.0	11.0	11.0
Africa	128.1	127.5	125.5	124.1	125.4	124.7	122.9	118.8	119.0	119.5
Algeria	12.1	12.1	12.1	12.1	12.1	12.1	11.4	12.1	12.1	12.1
Angola	12.5	11.5	9.5	8.3	8.1	7.7	7.7	2.5	2.6	2.6
Egypt	4.4	4.4	4.4	3.1	3.3	3.1	3.0	3.3	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	37.2	37.2	36.7	36.6	36.6	36.8	36.7	36.9	37.4
Other	14.3	14.3	14.3	15.9	17.2	17.1	16.0	16.1	16.1	16.1
Asia-Pacific	41.6	47.9	47.7	46.4	46.1	45.2	45.0	46.0	46.7	47.3
Australia	4.0	4.0	4.0	2.5	2.5	1.8	1.8	1.8	1.8	1.8
China	18.4	25.5	25.5	25.8	26.0	25.9	25.8	26.9	27.2	27.5
India	4.6	4.5	4.4	4.3	4.5	4.5	4.5	4.3	4.6	4.8
Indonesia	3.6	3.2	3.1	3.1	2.5	2.4	2.2	2.3	2.3	2.4
Malaysia	3.7	3.6	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	0.0	0.1	0.1	0.1	0.1
Thailand	0.7	0.4	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2
Vietnam	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.4	4.4	4.4
Other	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5	2.6
OECD	250.4	273.5	273.3	280.4	279.7	279.3	268.6	274.1	275.1	276.3
Non-OECD	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	1,576.6
OPEC	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	1,296.6
Non-OPEC	523.4	561.8	555.0	561.4	558.2	557.8	548.0	551.5	553.2	556.3
World	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	1,852.9

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

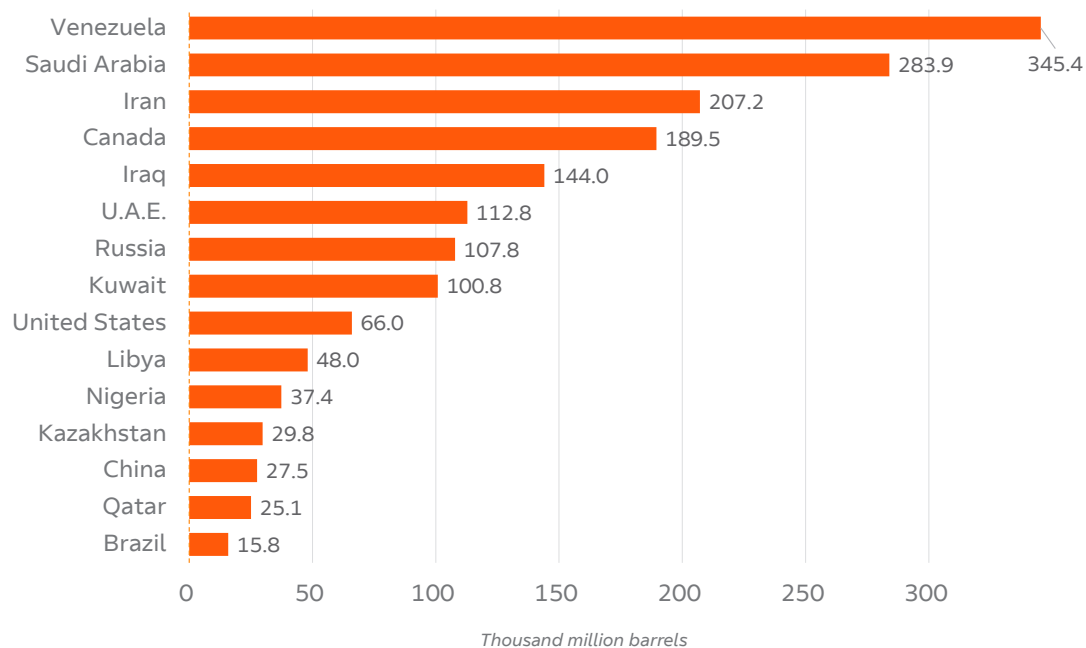
Oil Production (Thousand barrels per day)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	19,972	19,510	20,434	22,889	24,758	23,854	24,360	25,771	27,447	28,292
Canada	4,536	4,615	4,990	5,408	5,609	5,347	5,593	5,756	5,828	6,088
Mexico	2,597	2,463	2,229	2,073	1,928	1,932	1,954	2,006	2,103	1,971
United States	12,839	12,432	13,214	15,408	17,222	16,576	16,813	18,009	19,516	20,233
South and Central America	7,845	7,529	7,356	6,787	6,441	6,058	6,032	6,398	7,066	7,408
Argentina	650	625	595	621	647	609	643	712	765	831
Brazil	2,547	2,628	2,755	2,713	2,897	3,044	3,002	3,119	3,488	3,438
Chile	6	5	6	9	12	9	9	9	10	8
Colombia	1,014	906	862	873	893	788	744	761	791	788
Peru	150	134	133	133	140	125	120	118	114	118
Trinidad & Tobago	109	97	99	87	82	76	77	76	68	67
Venezuela	2,665	2,429	2,220	1,683	1,098	719	719	723	851	957
Other	705	706	687	668	672	688	719	879	980	1,201
Europe	3,613	3,644	3,605	3,588	3,500	3,716	3,520	3,301	3,326	3,253
Czech Republic	7	5	7	6	5	6	6	4	4	4
France	25	34	38	28	43	40	53	60	59	44
Germany	66	68	67	67	58	73	58	57	49	40
Italy	131	95	97	110	89	120	111	96	111	88
Netherlands	36	24	24	23	18	19	19	12	8	8
Norway	1,948	1,995	1,969	1,850	1,761	2,037	2,048	1,907	2,021	2,000
Poland	28	21	24	32	30	29	26	22	22	24
Portugal	0	1	1	0	0	0	0	0	0	0
Romania	82	78	74	73	73	71	68	64	62	57
Spain	5	3	2	2	1	1	0	0	5	0
Turkey	49	52	52	59	62	64	68	71	81	104
United Kingdom	972	1,026	1,009	1,116	1,149	1,076	890	837	735	704
EU	3,507	3,540	3,503	3,481	3,389	3,606	3,409	3,189	3,207	3,113
Other	263	240	242	221	211	181	174	169	170	179
Former Soviet Union	14,051	14,221	14,336	14,596	14,668	13,522	13,787	13,912	13,842	13,495
Azerbaijan	849	829	784	793	765	699	703	671	620	599
Kazakhstan	1,694	1,669	1,848	1,937	1,943	1,838	1,846	1,817	1,931	1,876
Russia	11,084	11,328	11,321	11,494	11,582	10,607	10,867	11,088	10,959	10,698
Ukraine	54	50	49	51	55	54	54	11	0	0
Uzbekistan	66	62	66	63	60	58	56	70	85	83
Other	304	283	268	258	262	266	261	254	247	239
Middle East	29,743	31,417	31,104	31,549	30,127	27,866	28,197	30,957	30,421	30,215
Iran	3,593	4,400	4,742	4,581	3,345	3,038	3,504	3,680	4,233	4,655
Iraq	4,108	4,533	4,603	4,703	4,852	4,213	4,200	4,622	4,453	4,494
Kuwait	3,097	3,176	2,994	3,030	2,967	2,707	2,710	3,015	2,971	2,862
Qatar	1,856	1,839	1,767	1,780	1,714	1,765	1,804	1,798	1,809	1,845
Saudi Arabia	12,067	12,355	12,001	12,340	11,913	11,116	11,036	12,229	11,432	10,931
United Arab Emirates	3,762	3,848	3,740	3,831	4,049	3,759	3,660	4,249	4,207	4,186
Other	1,260	1,266	1,257	1,285	1,287	1,268	1,284	1,364	1,315	1,242
Africa	8,337	7,806	8,191	8,282	8,441	7,026	7,387	7,117	7,288	7,187
Algeria	1,590	1,604	1,530	1,512	1,490	1,346	1,362	1,470	1,432	1,360
Angola	1,809	1,753	1,687	1,533	1,429	1,308	1,160	1,179	1,136	1,158
Egypt	696	664	639	649	633	619	593	600	596	569
Libya	437	426	877	1,029	1,159	384	1,225	1,068	1,229	1,142
Nigeria	2,246	1,928	1,986	2,030	2,123	1,879	1,681	1,485	1,564	1,634
South Africa	106	103	106	102	104	88	87	80	88	78
Other	1,452	1,328	1,366	1,427	1,504	1,402	1,280	1,237	1,243	1,246
Asia-Pacific	8,314	8,031	7,794	7,675	7,712	7,507	7,425	7,331	7,347	7,353
Australia	371	345	315	344	458	455	444	413	382	369
China	4,271	3,994	3,885	3,848	3,921	3,970	4,060	4,177	4,273	4,336
India	889	870	881	866	824	769	746	720	704	700
Indonesia	817	866	824	798	772	734	683	632	628	601
Japan	12	11	12	10	11	10	10	9	8	8
Malaysia	701	737	729	723	670	604	566	563	557	536
New Zealand	48	41	37	30	30	26	23	21	23	20
South Korea	22	24	25	29	28	34	37	38	38	43
Thailand	452	463	457	447	441	397	373	310	301	313
Other	731	681	629	578	558	507	483	447	432	428
OPEC	34,306	35,374	35,370	35,460	33,732	29,837	30,697	33,118	32,955	32,786
Non-OPEC	62,115	61,424	62,233	64,937	67,102	64,451	65,019	66,884	69,291	70,213
Global biofuels	2,269	2,357	2,446	2,651	2,819	2,611	2,767	2,897	3,145	3,401
Processing gains	2,277	2,282	2,338	2,380	2,368	2,128	2,241	2,318	2,359	2,390
World	96,420	96,798	97,603	100,397	100,835	94,288	95,716	100,002	102,247	102,999

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

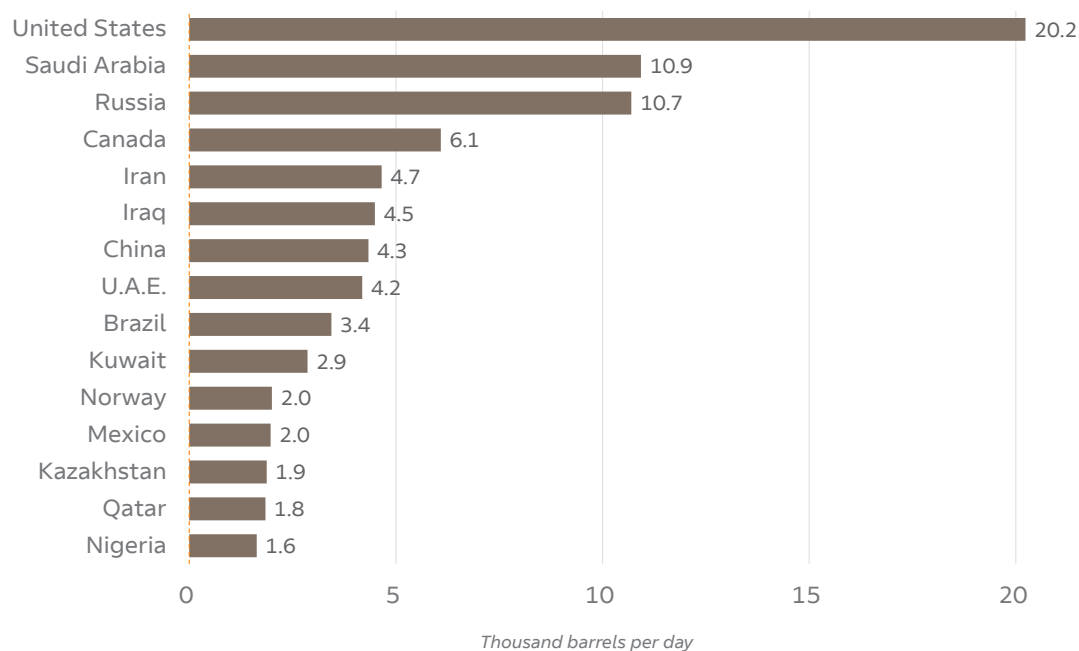
Oil Final Consumption (Thousand barrels/day)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		24,163	24,389	24,626	25,144	24,928	21,993	23,747	24,427	24,683	24,642
Canada		2,468	2,505	2,506	2,557	2,559	2,260	2,290	2,402	2,446	2,370
Mexico		2,006	2,053	2,019	1,933	1,967	1,685	1,704	1,866	1,846	1,850
United States		19,688	19,831	20,101	20,654	20,402	18,049	19,753	20,160	20,391	20,421
South and Central America		6,975	6,863	6,767	6,603	6,643	5,679	6,347	6,621	6,739	6,817
Argentina		682	677	666	648	625	530	636	697	701	668
Brazil		3,189	2,999	3,039	2,975	3,073	2,856	3,028	3,130	3,227	3,329
Chile		331	352	357	363	362	331	361	385	383	386
Colombia		338	372	346	349	373	309	396	431	442	449
Peru		236	247	262	266	274	213	285	277	283	292
Trinidad & Tobago		46	47	44	37	32	26	26	27	27	27
Venezuela		710	716	608	482	381	171	203	239	236	245
Other		1,444	1,452	1,446	1,482	1,524	1,242	1,412	1,435	1,441	1,420
Europe		14,603	14,807	15,204	15,093	15,122	13,155	13,870	14,334	14,197	14,274
Belgium		625	633	639	685	642	562	623	605	592	603
Czech Republic		196	180	214	217	219	192	212	216	213	221
Finland		205	208	208	208	209	189	184	194	176	173
France		1,761	1,727	1,756	1,707	1,707	1,436	1,569	1,570	1,532	1,514
Germany		2,368	2,383	2,450	2,327	2,355	2,148	2,134	2,174	2,054	2,057
Italy		1,274	1,237	1,244	1,272	1,255	1,032	1,160	1,261	1,242	1,240
Netherlands		916	932	941	924	899	857	852	841	849	818
Norway		240	230	237	243	248	218	235	224	234	234
Poland		541	582	658	680	698	661	698	727	717	738
Portugal		237	237	242	231	249	203	212	233	227	218
Romania		194	204	217	214	228	219	213	225	249	259
Spain		1,247	1,290	1,297	1,332	1,328	1,089	1,192	1,289	1,271	1,322
Sweden		301	315	321	290	297	268	302	282	278	265
Turkey		881	942	991	958	987	921	974	1,013	1,083	1,107
United Kingdom		1,560	1,599	1,619	1,605	1,578	1,222	1,263	1,378	1,386	1,395
EU		11,232	11,324	11,635	11,571	11,591	10,160	10,742	11,046	10,842	10,884
Other		2,057	2,107	2,171	2,198	2,224	1,938	2,048	2,100	2,094	2,107
Former Soviet Union		4,523	4,415	4,586	4,610	4,663	4,400	4,730	4,711	4,722	4,774
Azerbaijan		96	97	103	104	112	101	117	114	118	122
Kazakhstan		318	347	334	326	290	314	375	337	378	391
Russia		3,414	3,252	3,436	3,435	3,514	3,273	3,497	3,598	3,538	3,553
Ukraine		220	244	236	243	244	215	233	165	171	174
Uzbekistan		84	88	90	94	98	102	105	110	127	134
Other		390	386	387	408	405	394	403	388	389	400
Middle East		9,045	8,815	8,992	9,003	9,182	8,470	8,808	9,347	9,362	9,418
Iran		1,924	1,681	1,738	1,822	1,933	1,824	1,897	1,980	1,975	1,975
Iraq		606	655	680	709	797	710	820	964	1,009	1,004
Kuwait		523	494	509	520	517	483	518	537	534	532
Qatar		287	305	311	311	319	276	290	325	326	330
Saudi Arabia		3,841	3,782	3,766	3,584	3,598	3,416	3,473	3,646	3,531	3,552
United Arab Emirates		895	964	985	979	970	843	900	970	1,039	1,082
Other		969	935	1,003	1,079	1,048	920	911	926	947	943
Africa		4,157	4,117	4,150	4,180	4,181	3,915	4,369	4,450	4,611	4,622
Algeria		455	439	433	444	454	410	421	437	475	499
Angola		160	156	141	140	151	110	141	147	162	167
Egypt		858	829	773	715	651	752	884	942	1,044	1,029
Libya		218	199	204	210	208	179	193	198	205	204
Nigeria		415	427	431	456	488	428	488	513	483	492
South Africa		655	609	662	653	619	531	581	605	640	612
Other		1,396	1,459	1,507	1,562	1,610	1,505	1,662	1,608	1,601	1,621
Asia-Pacific		32,332	33,132	34,359	35,467	36,059	34,289	35,674	36,363	37,877	38,505
Australia		1,106	1,098	1,150	1,168	1,149	990	1,013	1,062	1,116	1,145
China		11,639	12,013	12,574	13,531	14,184	14,350	15,162	15,192	16,478	16,632
India		4,288	4,493	4,762	4,927	4,970	4,641	4,838	5,302	5,446	5,675
Indonesia		1,683	1,594	1,703	1,839	1,833	1,658	1,691	1,834	1,853	1,874
Japan		4,168	4,034	3,942	3,847	3,754	3,354	3,399	3,338	3,287	3,140
Malaysia		688	709	731	712	752	604	578	679	718	752
New Zealand		161	168	177	179	181	150	147	151	159	159
South Korea		2,473	2,603	2,627	2,564	2,596	2,448	2,556	2,527	2,424	2,515
Taiwan		1,139	1,140	1,131	1,130	1,067	1,019	1,075	989	933	926
Thailand		1,375	1,419	1,446	1,485	1,488	1,370	1,361	1,422	1,434	1,465
Other		3,612	3,861	4,117	4,084	4,082	3,706	3,855	3,866	4,028	4,222
OECD		46,923	47,379	47,966	48,246	47,981	42,265	45,015	46,187	46,206	46,197
Non-OECD		48,875	49,159	50,718	51,855	52,797	49,636	52,531	54,067	55,985	56,855
World		95,798	96,539	98,683	100,100	100,778	91,901	97,545	100,254	102,191	103,052

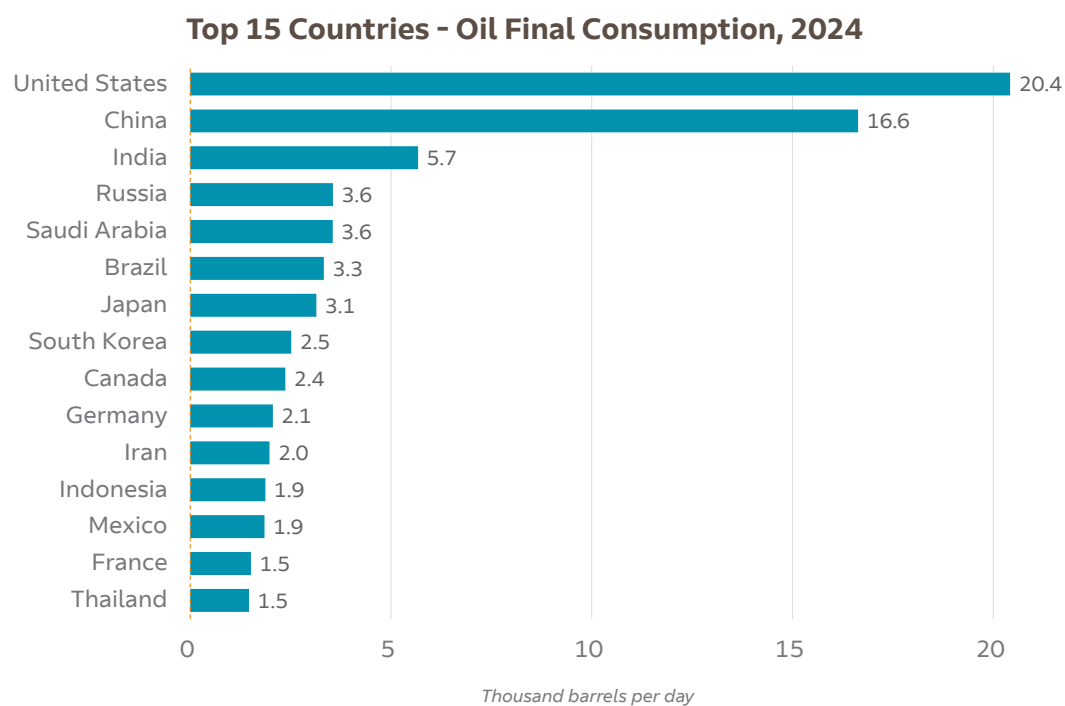
Note: Liquids final consumption including bunker fuel.

Top 15 Countries - Oil Proved Reserves, 2024



Top 15 Countries - Oil Production, 2024







Natural Gas

Natural Gas Proved Reserves (Tcm)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	11.1	11.4	14.6	15.7	15.8	15.8	19.4	19.4	19.4	19.4
Canada	2.1	2.1	2.0	2.1	2.5	2.5	2.5	2.5	2.5	2.5
Mexico	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
United States	8.7	9.1	12.4	13.4	13.2	13.2	16.7	16.7	16.7	16.7
South and Central America	7.6	7.6	7.5	7.3	7.3	7.2	7.2	7.1	7.1	7.2
Argentina	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Brazil	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
Chile	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Colombia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Peru	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2
Trinidad & Tobago	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Venezuela	5.7	5.7	5.7	5.7	5.7	5.6	5.5	5.5	5.5	5.5
Other	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Europea	4.1	3.8	3.7	3.1	3.0	2.8	2.7	2.6	2.6	2.6
France	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Italy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Netherlands	0.8	0.7	0.7	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Norway	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0
Poland	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Romania	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Turkey	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
EU	1.2	1.1	1.1	0.6	0.5	0.5	0.4	0.4	0.4	0.4
Other	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Former Soviet Union	67.9	68.3	68.6	68.0	68.0	66.7	66.6	66.0	66.0	66.0
Azerbaijan	0.7	0.7	1.1	1.4	1.9	1.9	1.9	1.9	1.9	1.9
Kazakhstan	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Russia	50.2	50.6	50.5	49.6	49.1	47.8	47.8	47.2	47.2	47.2
Turkmenistan	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Ukraine	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2
Uzbekistan	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle East	79.3	80.3	80.0	79.5	81.4	81.3	82.0	83.0	83.0	83.0
Iran	33.5	33.7	33.8	33.9	34.0	34.0	34.0	34.0	34.0	34.0
Iraq	3.2	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Kuwait	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Qatar	24.3	24.1	23.9	23.8	23.8	23.8	23.8	23.8	23.8	23.8
Saudi Arabia	8.6	8.6	8.7	8.3	8.4	8.4	8.5	9.5	9.5	9.5
United Arab Emirates	6.1	6.1	6.1	6.1	7.7	7.7	8.2	8.2	8.2	8.2
Other	1.8	2.2	2.0	1.9	2.0	1.8	1.9	2.0	2.0	2.0
Africa	14.7	15.1	15.5	15.6	16.0	16.0	16.1	16.0	15.9	15.9
Algeria	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Angola	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.1	0.1	0.1
Egypt	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Libya	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Nigeria	5.3	5.5	5.6	5.7	5.8	5.8	5.8	5.9	5.9	5.9
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	1.0	1.0	1.2	1.3	1.7	1.7	1.7	1.7	1.6	1.6
Asia-Pacific	15.5	15.1	14.9	13.4	12.8	12.6	12.4	11.9	11.6	11.5
Australia	3.2	3.2	3.2	3.2	2.8	2.8	2.8	2.8	2.8	2.8
China	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9
India	1.3	1.2	1.3	1.3	1.4	1.4	1.4	1.1	1.1	1.1
Indonesia	2.9	2.8	2.7	1.4	1.2	1.1	1.0	0.9	0.9	0.9
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaysia	2.8	2.5	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Thailand	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Other	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	1.6	1.5
OECD	18.6	19.0	22.0	22.6	22.3	22.1	25.7	25.6	25.6	25.6
Non-OECD	181.0	182.3	182.3	179.7	181.7	179.9	180.3	180.0	180.0	180.0
World	199.7	201.2	204.3	202.3	204.0	202.0	205.9	205.6	205.6	205.6

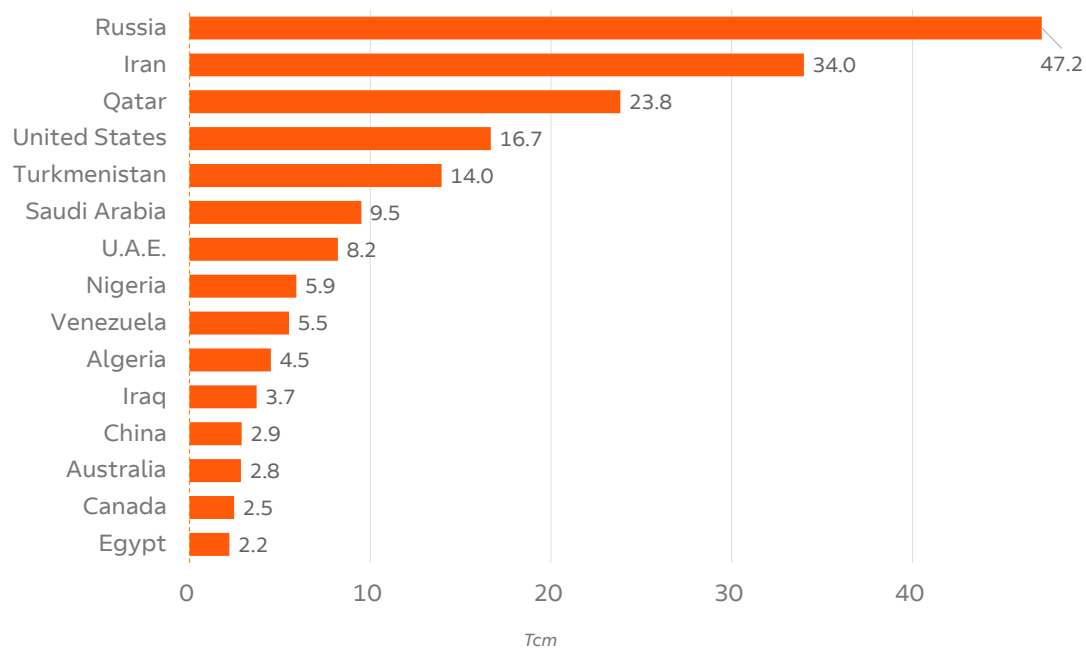
Note: Proved reserves of natural gas on 31/12.

Natural Gas Production (Bcm)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	992.8	995.7	1,015.4	1,100.5	1,208.8	1,194.1	1,230.5	1,299.3	1,351.1	1,352.7
Canada	169.4	188.8	195.8	202.0	194.4	189.7	195.8	210.6	214.8	220.5
Mexico	42.7	37.5	32.6	34.6	33.8	38.6	39.0	41.0	43.9	40.4
United States	780.7	769.4	787.1	863.9	980.7	965.9	995.7	1,047.7	1,092.4	1,091.8
South and Central America	178.3	177.2	176.7	175.4	173.5	153.3	160.6	162.4	160.1	163.6
Argentina	39.5	41.4	41.1	43.3	45.4	41.5	41.7	44.4	44.1	46.5
Brazil	22.5	23.4	26.2	24.7	25.3	22.7	26.6	24.8	25.1	24.4
Chile	1.0	1.2	1.3	1.3	1.6	1.2	1.2	1.3	1.7	1.7
Colombia	13.4	12.2	12.2	12.6	12.8	12.5	11.6	11.5	10.6	9.8
Peru	14.0	15.5	13.8	13.5	14.3	12.8	14.3	14.8	15.9	15.7
Trinidad & Tobago	39.2	34.1	34.2	36.8	37.4	31.4	27.0	28.1	27.0	26.3
Venezuela	24.5	26.1	25.6	22.3	18.4	13.8	20.3	21.0	21.3	22.6
Other	24.3	23.2	22.4	20.8	18.3	17.5	18.0	16.5	14.4	16.6
Europea	263.3	262.4	263.5	249.8	232.3	215.8	208.6	219.4	202.3	207.3
Czech Republic	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
France	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.6	0.8	1.0
Germany	8.7	9.0	8.2	6.5	6.0	5.9	6.4	6.0	5.5	5.2
Italy	6.8	5.8	5.5	5.5	4.8	4.1	3.4	3.3	3.0	2.9
Netherlands	55.2	53.3	45.7	39.1	33.5	24.4	21.9	18.4	12.2	10.0
Norway	121.4	120.6	128.7	126.2	119.0	115.9	119.0	128.1	121.7	131.1
Poland	6.1	5.8	5.7	5.7	5.7	5.6	5.6	5.5	5.3	5.3
Romania	11.1	9.8	10.6	10.3	10.0	8.9	8.9	9.1	9.2	9.3
Spain	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Turkey	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.8	2.3
United Kingdom	42.9	44.3	44.5	43.1	41.9	42.2	35.1	40.7	36.8	33.1
EU	98.0	96.6	89.4	79.5	70.4	56.7	53.6	49.8	42.5	40.8
Other	10.4	13.1	13.9	12.6	10.5	7.9	7.3	7.1	6.7	6.9
Former Soviet Union	847.7	866.2	924.9	951.5	950.6	895.4	1,001.0	919.6	887.4	942.5
Azerbaijan	19.8	19.2	18.7	19.7	25.2	27.2	33.5	35.9	37.4	39.1
Kazakhstan	28.6	32.6	38.3	41.2	35.3	32.2	28.1	29.1	31.1	30.3
Russia	641.9	659.1	711.2	730.4	729.1	688.9	782.4	693.2	657.3	706.0
Turkmenistan	83.5	79.5	80.3	84.2	86.4	82.5	83.5	89.3	94.5	94.4
Ukraine	19.5	19.7	20.0	20.5	20.1	19.8	18.2	16.8	n.d.	15.8
Uzbekistan	54.3	55.8	56.3	55.2	54.3	44.5	53.5	52.0	47.0	44.9
Other	0.2	0.2	0.2	0.2	0.2	0.2	1.8	3.2	20.0	12.1
Middle East	628.4	654.4	670.2	671.6	713.3	735.2	751.6	767.8	784.6	796.8
Iran	191.4	207.0	223.4	221.3	247.3	266.2	270.3	275.7	280.1	285.2
Iraq	6.9	9.4	10.7	11.1	11.5	7.4	9.6	9.9	10.5	11.3
Kuwait	16.9	17.1	16.9	17.9	19.6	21.5	21.2	16.7	18.7	19.7
Qatar	179.8	182.1	181.4	180.4	182.6	181.7	183.3	184.8	185.3	184.3
Saudi Arabia	107.3	113.8	119.2	123.6	124.8	125.7	129.4	135.8	136.5	138.5
United Arab Emirates	61.8	62.7	55.5	49.3	56.6	56.5	54.0	57.1	60.5	61.7
Other	64.4	62.3	63.1	68.0	70.9	76.3	83.8	87.9	92.9	96.1
Africa	212.5	227.3	249.3	246.9	257.2	236.5	264.9	250.1	244.7	228.0
Algeria	0.8	1.7	5.8	6.2	6.8	7.6	6.1	5.4	5.9	5.8
Angola	87.4	97.5	99.6	100.4	93.2	86.9	108.0	105.6	109.8	103.0
Egypt	38.3	42.6	52.5	50.2	69.6	62.4	71.1	60.9	53.9	44.9
Libya	19.8	20.1	23.0	19.9	16.9	7.9	10.2	10.3	9.9	12.7
Nigeria	43.7	42.2	45.1	45.7	46.2	46.5	43.2	39.8	38.0	40.1
South Africa	1.2	0.7	0.7	1.0	1.2	1.1	0.0	0.0	0.0	0.0
Other	21.3	22.4	22.7	23.4	23.4	24.1	26.2	28.0	27.1	21.5
Asia-Pacific	544.2	569.0	603.3	635.3	680.4	688.2	715.9	741.0	755.9	781.5
Australia	71.2	84.6	108.1	123.9	144.4	155.8	150.3	159.4	160.7	158.9
China	143.9	152.5	166.7	183.3	204.0	223.7	243.2	261.3	276.5	293.2
India	32.1	32.3	33.1	33.8	31.1	28.5	34.0	34.6	36.7	36.5
Indonesia	75.7	74.7	72.3	72.6	67.2	69.1	68.9	67.1	68.5	71.8
Japan	4.7	4.8	5.2	4.8	4.6	4.4	4.7	4.9	4.7	4.4
Malaysia	63.7	63.0	64.0	67.5	75.2	67.9	74.1	78.9	77.7	80.0
New Zealand	5.0	5.2	5.1	4.5	4.9	4.8	4.2	3.8	3.9	3.2
South Korea	0.2	0.2	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0
Thailand	31.6	31.0	28.9	28.1	28.8	26.1	25.6	21.1	21.2	23.1
Other	116.2	120.7	119.6	116.5	119.9	107.7	110.8	109.8	106.0	110.3
OECD	1,336.3	1,343.9	1,388.8	1,474.9	1,568.3	1,593.6	1,593.6	1,593.6	1,593.6	1,593.6
Non-OECD	2,301.2	2,333.2	2,439.1	2,533.4	2,590.7	2,489.6	2,489.6	2,489.6	2,489.6	2,489.6
World	3,637.5	3,677.1	3,827.9	4,008.3	4,159.0	4,083.2	4,083.2	4,083.2	4,083.2	4,083.2

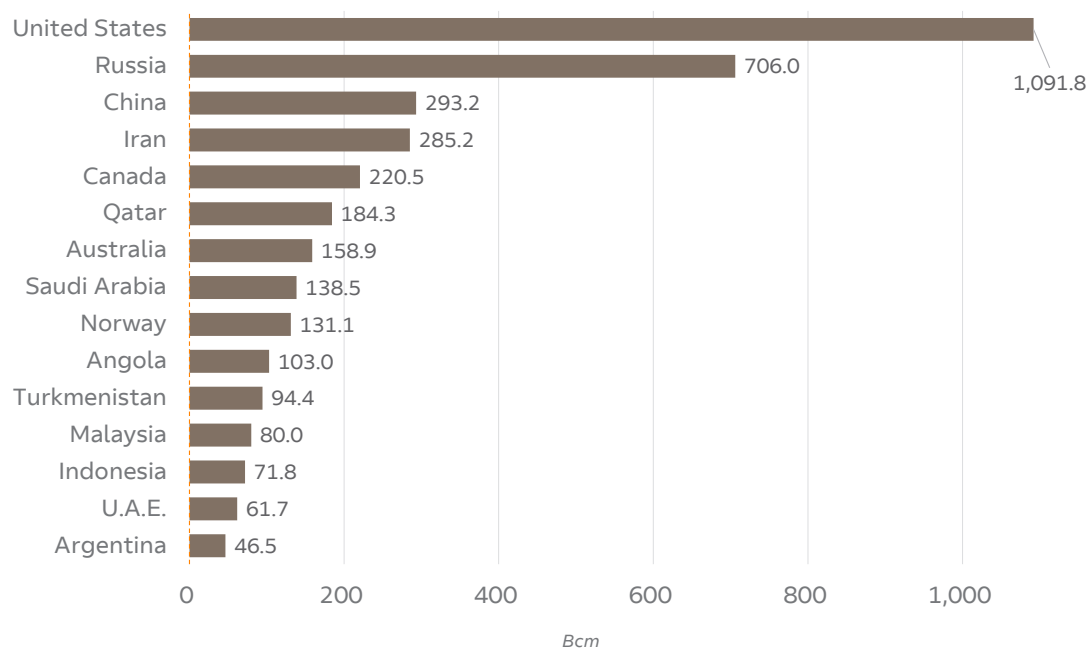
Natural Gas Demand (Bcm)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		979.1	990.8	987.9	1,086.8	1,116.7	1,079.6	1,100.9	1,142.0	1,156.7	1,175.8
Canada		118.7	119.7	125.3	139.5	139.2	131.3	138.7	143.4	141.7	147.5
Mexico		75.8	76.8	78.7	77.7	77.3	72.7	78.9	70.4	77.5	77.9
United States		784.7	794.4	783.8	869.5	900.1	875.6	883.3	928.1	937.6	950.4
South and Central America		169.2	162.8	163.2	157.6	152.9	136.8	165.8	153.0	152.1	155.8
Argentina		47.8	48.1	49.2	47.0	45.2	43.3	53.0	44.3	42.7	44.1
Brazil		41.3	35.5	37.0	35.8	35.3	32.4	45.0	34.7	31.5	33.3
Chile		4.5	4.9	5.2	5.5	6.5	6.1	6.6	6.9	7.0	6.8
Colombia		12.7	12.5	11.6	12.2	12.9	11.3	11.3	11.8	12.8	13.6
Peru		8.4	8.9	7.7	7.9	8.4	7.0	8.8	9.6	10.5	11.8
Trinidad & Tobago		20.8	18.9	18.3	19.0	19.4	16.6	17.5	17.0	16.5	15.9
Venezuela		26.4	26.3	26.4	22.2	16.7	12.4	14.9	20.1	20.8	21.7
Other		7.2	7.6	7.8	8.0	8.6	7.7	8.7	8.5	10.3	8.7
Europe		502.3	530.4	557.2	546.2	551.9	536.8	572.1	504.4	463.1	461.9
Belgium		17.2	17.4	17.8	18.4	18.5	18.4	18.5	15.6	14.6	14.1
Czech Republic		7.9	8.5	8.7	8.3	8.7	8.8	9.5	7.6	6.8	6.7
Finland		2.7	2.5	2.4	2.6	2.6	2.6	2.6	1.3	1.5	1.6
France		40.0	43.8	43.7	41.6	42.4	39.4	41.7	38.0	33.7	31.5
Germany		81.3	89.2	95.0	94.7	95.6	92.9	99.0	87.2	80.1	80.6
Italy		67.5	70.9	75.2	72.7	74.5	71.3	76.4	68.7	61.7	61.9
Netherlands		40.7	42.3	43.7	42.9	44.8	43.6	42.1	33.4	31.5	31.9
Norway		6.4	6.1	6.3	6.2	6.3	5.9	5.4	5.1	5.1	5.4
Poland		18.5	19.2	20.1	20.2	20.8	21.3	22.8	19.6	20.2	21.6
Portugal		4.7	5.0	6.3	5.7	6.1	6.0	5.8	5.6	4.4	3.3
Romania		11.3	11.3	11.8	11.8	11.0	11.4	12.0	10.0	9.6	9.9
Spain		28.2	28.8	31.1	31.0	35.4	31.9	33.8	32.6	29.0	27.9
Sweden		1.0	0.9	1.1	1.1	1.1	1.0	1.2	0.8	0.8	0.9
Turkey		48.1	46.4	54.0	49.7	45.3	48.2	59.6	52.3	49.6	52.2
United Kingdom		75.9	84.1	82.3	83.0	82.0	77.0	81.0	74.6	66.8	64.9
EU		365.9	387.1	407.7	400.5	411.6	399.0	418.4	365.6	335.1	334.0
Other		50.9	53.8	57.8	56.3	57.1	57.2	60.8	51.8	47.7	47.4
Former Soviet Union		597.3	605.9	624.6	687.1	647.0	622.4	696.3	662.0	676.3	715.2
Azerbaijan		11.7	11.5	11.2	11.4	12.9	13.0	13.5	14.3	14.7	13.5
Kazakhstan		13.8	15.3	16.1	17.5	20.7	18.6	22.8	22.3	24.9	24.4
Russia		448.1	454.5	473.9	536.5	492.3	471.8	528.1	498.4	512.4	544.5
Turkmenistan		21.1	20.6	20.6	20.6	21.5	22.4	22.4	23.2	22.4	23.0
Ukraine		33.1	32.2	31.0	31.1	28.4	29.5	28.8	21.6	n.d.	21.5
Uzbekistan		43.9	46.6	46.0	42.7	44.3	41.6	53.6	47.9	46.8	48.9
Other		25.5	25.2	25.8	27.3	26.8	25.4	27.2	34.2	54.9	39.4
Middle East		510.3	533.0	543.5	550.0	585.9	606.9	618.2	628.3	647.8	656.1
Iran		189.0	203.8	213.9	209.6	229.9	249.2	253.4	258.9	267.6	272.2
Iraq		6.9	10.9	13.5	16.5	20.2	21.3	21.1	20.7	21.2	20.5
Kuwait		20.9	22.1	22.4	23.7	25.5	25.7	26.9	25.0	27.5	29.5
Qatar		54.7	53.3	51.4	54.1	55.9	55.0	56.5	55.3	57.7	56.7
Saudi Arabia		107.3	113.8	119.2	123.6	124.8	125.7	129.4	135.8	136.5	138.5
United Arab Emirates		76.1	72.2	64.2	62.9	67.4	68.5	66.7	68.1	70.8	70.9
Other		55.3	57.0	58.9	59.6	62.3	61.5	64.3	64.6	66.6	67.8
Africa		138.1	144.5	152.0	153.8	165.1	157.5	167.4	162.3	163.9	167.1
Algeria		42.3	41.8	43.3	46.9	48.4	46.5	51.1	54.2	55.3	56.3
Angola		0.8	0.8	0.8	0.9	1.3	1.3	1.3	0.9	0.9	1.1
Egypt		45.0	50.7	58.0	54.9	63.5	58.2	61.3	53.2	54.0	54.6
Libya		9.6	8.7	8.9	8.7	8.8	7.2	8.5	9.3	8.9	16.2
Nigeria		18.4	18.8	17.4	18.1	18.3	18.7	19.0	18.1	17.6	18.6
South Africa		5.3	5.7	4.9	5.2	5.3	5.1	3.8	3.7	3.8	3.8
Other		16.8	17.9	18.7	19.1	19.5	20.5	22.4	22.8	23.3	16.6
Asia-Pacific		746.8	764.2	803.7	862.0	895.6	911.6	969.3	963.4	996.3	1,043.3
Australia		36.9	37.2	38.6	39.8	40.7	42.2	40.6	40.5	40.9	39.4
China		206.1	225.3	260.4	308.1	337.4	361.9	409.6	414.3	444.1	476.6
India		52.8	56.4	59.5	61.5	61.6	61.7	66.8	64.4	72.3	77.3
Indonesia		59.3	46.1	44.6	46.5	49.1	45.7	42.9	41.9	43.3	47.1
Japan		125.2	128.0	124.8	119.7	114.6	114.0	108.3	103.4	98.9	96.3
Malaysia		46.9	44.6	43.8	43.5	48.0	44.8	52.2	57.3	56.6	57.9
New Zealand		5.1	5.1	5.3	4.7	5.1	4.8	4.1	3.8	4.0	3.2
South Korea		48.7	50.5	52.6	61.2	59.5	60.2	66.5	65.7	63.0	66.0
Thailand		46.2	45.3	42.8	45.8	49.6	42.0	41.0	37.3	39.6	38.4
Other		119.7	125.7	131.4	131.1	130.1	134.4	137.4	134.7	133.5	141.1
OECD		1,703.7	1,749.4	1,772.1	1,864.4	1,897.5	1,844.3	1,898.5	1,870.4	1,839.1	1,856.8
Non-OECD		1,939.4	1,982.3	2,060.0	2,179.1	2,217.6	2,207.4	2,391.5	2,344.9	2,417.1	2,518.2
World		3,643.1	3,731.7	3,832.2	4,043.5	4,115.1	4,051.6	4,289.9	4,215.3	4,256.2	4,375.1

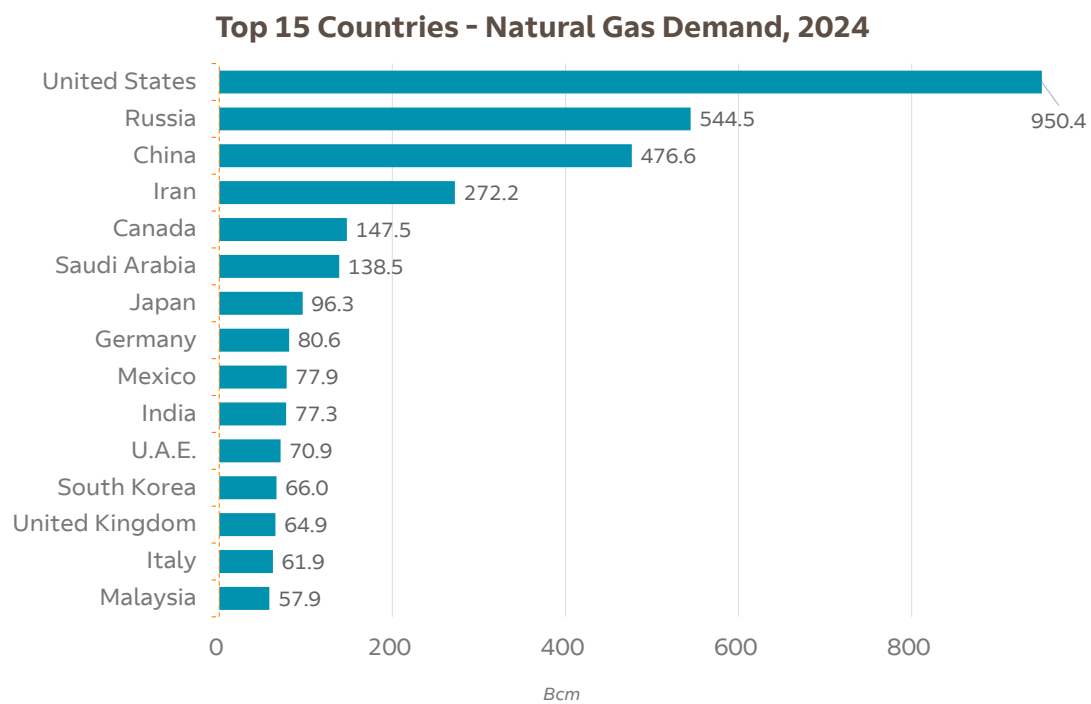
Note: Natural gas primary demand including power generation feedstock.

Top 15 Countries - Natural Gas Proved Reserves, 2024



Top 15 Countries - Natural Gas Production, 2024





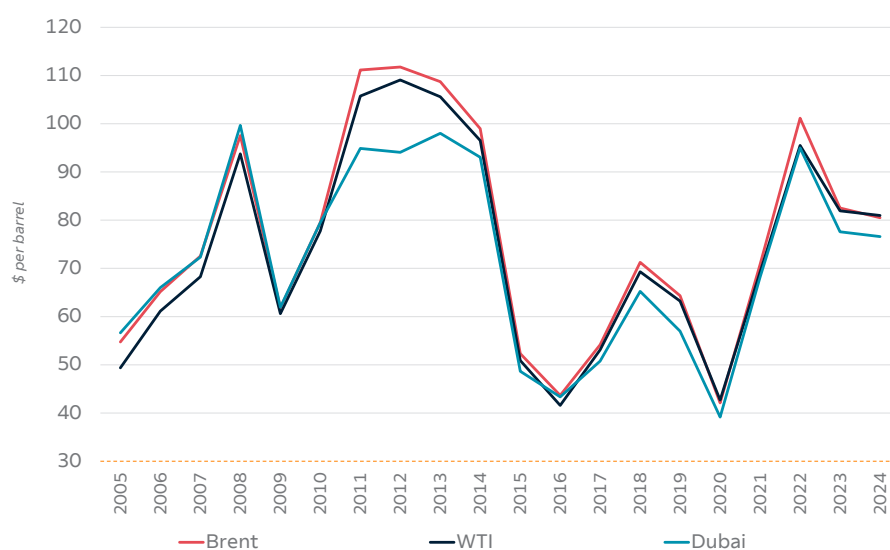


Oil and
Natural Gas
prices

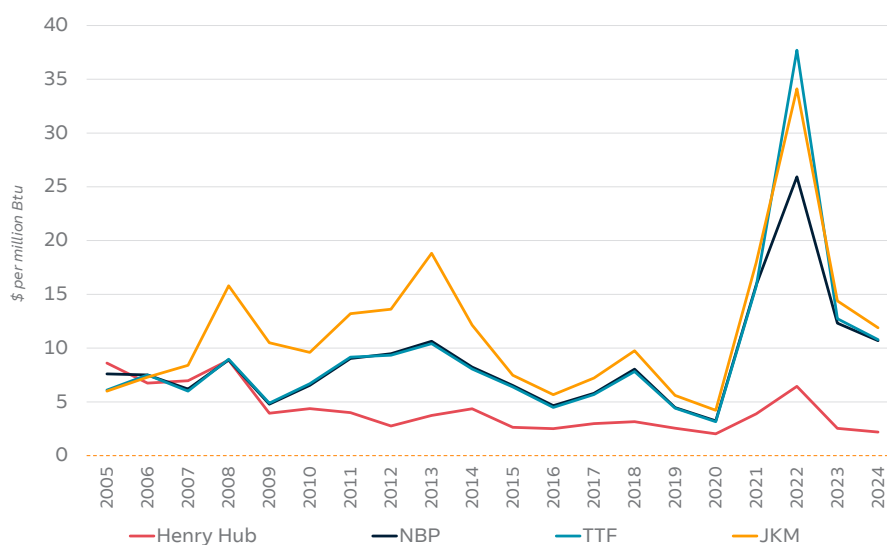
Oil and Natural Gas Prices	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Crude oil (\$ per barrel)										
Brent	52.3	43.6	54.1	71.3	64.3	42.1	70.8	101.2	82.5	80.5
WTI	50.9	41.6	53.1	69.3	63.2	42.7	69.2	95.5	81.9	81.0
Dubai	48.7	43.3	50.8	65.2	57.0	39.2	68.1	95.0	77.6	76.6
Natural gas (\$ per million Btu)										
Henry Hub (HH)	2.6	2.5	3.0	3.2	2.6	2.0	3.9	6.4	2.5	2.2
National Balancing Point (NBP)	6.5	4.7	5.8	8.0	4.5	3.2	15.9	25.9	12.3	10.7
Japan Korea Marker (JKM)	7.5	5.7	7.2	9.8	5.6	4.2	18.0	34.1	14.4	11.9
Title Transfer Facility (TTF)	6.4	4.5	5.7	7.8	4.4	3.2	15.8	37.7	12.7	10.8

Source: LSEG Data and Analytics

Crude Oil Price Benchmarks



Natural Gas Price Benchmarks





Electricity Generation

Total Power Generation (TWh)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	5,286	5,308	5,272	5,471	5,389	5,229	5,401	5,491	5,427	5,557
Canada	658	665	663	658	652	651	645	651	626	620
Mexico	311	321	323	358	345	318	381	344	357	363
United States	4,317	4,322	4,286	4,455	4,392	4,260	4,375	4,495	4,444	4,574
South and Central America	1,273	1,280	1,283	1,297	1,307	1,287	1,352	1,381	1,439	1,502
Argentina	145	146	146	152	146	145	154	146	153	158
Brazil	581	579	589	601	626	621	656	677	708	751
Chile	75	79	79	82	85	84	88	91	91	93
Colombia	75	74	74	78	80	80	87	87	90	93
Peru	48	52	53	55	57	53	57	60	62	n.d.
Trinidad & Tobago	10	9	9	9	9	9	9	10	10	n.d.
Venezuela	129	118	112	94	80	82	85	89	89	92
Other	209	222	220	225	224	212	217	221	236	316
Europe	3,812	3,851	3,900	3,897	3,839	3,729	3,884	3,783	3,697	3,763
Belgium	70	86	87	75	94	89	100	96	84	76
Czech Republic	84	83	87	88	87	82	85	85	77	75
Finland	69	69	68	70	69	69	72	72	82	n.d.
France	579	564	562	582	571	532	555	475	525	568
Germany	648	650	654	640	607	575	593	579	512	498
Italy	283	290	296	290	294	281	289	284	265	271
Netherlands	110	115	117	114	121	123	122	122	121	123
Norway	145	149	149	147	135	155	158	147	155	158
Poland	165	167	170	170	164	158	180	180	167	170
Portugal	52	60	59	60	53	53	51	49	49	50
Romania	66	65	64	65	60	56	59	56	58	53
Spain	281	275	276	274	273	263	274	292	286	285
Sweden	162	156	164	163	168	164	172	173	166	173
Turkey	262	274	297	305	304	307	335	328	324	350
United Kingdom	338	337	337	332	323	310	308	324	292	284
EU	2,907	2,928	2,961	2,943	2,907	2,790	2,916	2,823	2,749	2,789
Other	498	510	512	521	516	510	531	521	536	628
Former Soviet Union	1,512	1,540	1,549	1,588	1,591	1,558	1,643	1,641	1,661	1,706
Azerbaijan	25	25	24	25	26	26	28	29	29	28
Kazakhstan	92	95	103	108	107	111	115	113	113	118
Russia	1,068	1,091	1,094	1,115	1,121	1,090	1,159	1,151	1,164	1,192
Ukraine	164	165	156	160	154	148	156	113	n.d.	n.d.
Uzbekistan	57	59	60	62	63	67	71	74	78	82
Other	106	106	111	118	119	116	113	160	277	286
Middle East	1,114	1,150	1,227	1,210	1,255	1,259	1,306	1,412	1,493	1,578
Iran	281	289	308	310	327	342	356	368	380	401
Iraq	69	80	86	81	87	85	86	116	130	147
Kuwait	68	70	74	74	75	75	81	84	88	101
Qatar	41	42	46	48	50	49	52	55	59	63
Saudi Arabia	338	345	379	359	368	367	379	438	461	474
United Arab Emirates	127	130	135	136	138	137	149	156	168	178
Other	189	194	200	202	210	203	204	197	207	215
Africa	788	810	830	855	862	851	885	909	916	963
Algeria	69	71	76	77	82	79	85	91	96	101
Angola	10	10	11	14	14	14	15	14	14	n.d.
Egypt	180	192	195	203	194	197	205	214	217	230
Libya	38	31	33	34	35	29	31	35	36	n.d.
Nigeria	33	37	32	33	33	35	36	38	40	40
South Africa	250	255	258	256	253	240	244	235	224	236
Other	209	213	224	238	252	256	269	282	288	356
Asia-Pacific	10,530	11,015	11,647	12,312	12,712	12,946	13,918	14,518	15,311	16,129
Australia	251	257	258	261	264	265	266	272	274	280
China	5,815	6,133	6,604	7,166	7,503	7,779	8,534	8,849	9,456	10,087
India	1,354	1,432	1,490	1,522	1,577	1,533	1,610	1,817	1,938	2,016
Indonesia	267	233	263	276	281	277	289	344	361	384
Japan	1,059	1,071	1,081	1,067	1,039	1,017	1,050	1,019	1,010	1,012
Malaysia	150	157	165	171	178	174	180	187	193	203
New Zealand	45	44	45	45	45	45	45	45	45	45
South Korea	550	561	570	589	568	574	609	614	608	615
Taiwan	258	264	270	276	274	280	291	288	282	286
Thailand	177	188	182	183	192	190	188	199	214	220
Other	604	675	720	757	790	813	856	884	930	980
OECD	11,010	11,102	11,146	11,347	11,181	10,902	11,291	11,273	11,112	11,333
Non-OECD	13,294	13,840	14,550	15,272	15,763	15,946	17,086	17,849	18,832	19,866
World	24,314	24,953	25,708	26,630	26,955	26,859	28,390	29,135	29,944	31,200

Renewables in Power Generation (%)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	20.0%	21.5%	23.4%	22.9%	23.6%	25.8%	25.9%	27.6%	27.2%	28.0%
Canada	64.0%	64.9%	66.5%	65.9%	65.8%	67.0%	67.5%	69.0%	67.0%	65.9%
Mexico	15.3%	15.3%	16.3%	15.2%	16.0%	19.8%	19.5%	24.1%	20.0%	20.3%
United States	13.6%	15.3%	17.3%	17.2%	17.9%	19.9%	20.3%	21.8%	22.2%	23.4%
South and Central America	61.1%	63.9%	66.3%	68.1%	68.4%	69.3%	66.2%	72.1%	73.3%	72.3%
Argentina	30.5%	27.9%	30.6%	29.6%	32.3%	25.7%	24.4%	29.4%	39.3%	37.7%
Brazil	74.0%	80.5%	79.2%	82.4%	82.3%	84.2%	77.4%	87.7%	89.0%	87.8%
Chile	43.6%	43.3%	43.9%	46.2%	46.6%	48.7%	48.8%	55.3%	63.0%	68.9%
Colombia	62.6%	66.2%	80.5%	76.6%	70.1%	65.8%	74.8%	74.9%	67.1%	62.0%
Peru	52.3%	51.1%	58.8%	61.0%	60.4%	63.7%	61.9%	55.3%	53.0%	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	58.2%	53.4%	62.5%	69.3%	78.9%	81.5%	80.1%	77.5%	77.5%	74.5%
Europe	33.6%	34.0%	33.8%	36.3%	38.6%	42.8%	41.3%	42.8%	48.3%	51.2%
Belgium	22.3%	18.0%	19.5%	24.3%	21.7%	27.4%	23.6%	26.9%	34.3%	36.2%
Czech Republic	12.8%	12.7%	12.4%	11.9%	12.9%	14.3%	13.9%	13.9%	15.9%	19.4%
Finland	44.5%	44.2%	46.6%	45.7%	46.4%	51.9%	52.9%	53.6%	51.9%	n.d.
France	16.7%	18.4%	17.4%	20.4%	20.6%	24.4%	22.8%	25.1%	27.4%	27.8%
Germany	30.0%	30.0%	34.0%	35.6%	40.6%	44.8%	40.3%	44.6%	53.8%	57.3%
Italy	39.0%	37.9%	35.7%	40.1%	40.0%	42.4%	41.0%	36.0%	44.6%	49.9%
Netherlands	12.4%	12.8%	14.9%	16.5%	18.8%	26.5%	33.1%	39.6%	46.8%	50.7%
Norway	97.7%	97.8%	97.8%	97.8%	97.7%	98.4%	99.1%	98.5%	98.5%	98.6%
Poland	14.1%	14.0%	14.4%	13.0%	16.0%	18.4%	17.4%	21.6%	28.2%	30.8%
Portugal	48.7%	55.5%	40.9%	51.4%	54.2%	59.6%	64.9%	61.3%	75.8%	87.1%
Romania	40.1%	42.2%	38.3%	41.0%	42.0%	44.6%	44.9%	42.8%	49.8%	48.3%
Spain	35.7%	39.3%	32.9%	38.8%	37.8%	44.5%	47.0%	43.6%	52.4%	57.9%
Sweden	63.3%	57.2%	57.9%	55.8%	58.7%	68.5%	67.4%	68.3%	69.4%	69.4%
Turkey	32.0%	32.9%	29.3%	32.1%	43.5%	41.8%	35.4%	42.0%	43.3%	46.4%
United Kingdom	25.5%	25.5%	30.2%	33.9%	37.6%	43.8%	40.4%	42.3%	47.5%	52.0%
EU	30.4%	30.7%	30.5%	32.8%	34.5%	39.0%	37.9%	39.4%	45.5%	48.2%
Former Soviet Union	15.7%	16.9%	17.2%	17.3%	17.4%	19.1%	18.6%	18.0%	18.2%	18.8%
Azerbaijan	7.0%	8.4%	7.8%	7.8%	7.0%	5.1%	5.5%	6.3%	6.9%	13.3%
Kazakhstan	10.4%	12.7%	11.3%	10.4%	10.8%	11.0%	10.9%	11.7%	12.8%	15.0%
Russia	16.0%	17.2%	17.2%	17.4%	17.7%	20.0%	19.2%	18.1%	18.2%	18.7%
Ukraine	5.3%	6.6%	8.0%	9.1%	8.6%	11.8%	n.d.	n.d.	n.d.	n.d.
Uzbekistan	11.9%	11.7%	13.1%	9.4%	10.3%	7.5%	7.0%	9.3%	9.7%	10.9%
Middle East	1.8%	2.1%	1.9%	2.1%	4.0%	3.6%	2.9%	3.0%	3.9%	3.7%
Iran	5.1%	5.8%	5.0%	5.4%	9.9%	6.8%	3.8%	3.9%	5.8%	5.3%
Iraq	3.8%	4.3%	2.6%	2.3%	5.7%	4.9%	3.9%	2.3%	1.1%	1.0%
Kuwait	0.0%	0.0%	0.1%	0.1%	0.2%	0.3%	0.2%	0.2%	0.2%	0.2%
Qatar	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Saudi Arabia	0.0%	0.0%	0.0%	0.1%	0.1%	0.3%	0.4%	0.6%	0.5%	0.5%
United Arab Emirates	0.2%	0.2%	0.5%	1.0%	2.7%	4.0%	3.9%	5.0%	8.8%	8.3%
Africa	18.1%	18.0%	18.8%	19.9%	21.0%	22.8%	23.1%	23.4%	23.9%	23.2%
Algeria	0.5%	0.6%	0.8%	1.0%	1.0%	0.9%	0.8%	0.7%	0.7%	0.7%
Angola	53.7%	56.6%	69.0%	77.3%	76.6%	86.8%	76.6%	78.5%	79.3%	n.d.
Egypt	8.5%	8.3%	8.1%	7.8%	9.5%	12.1%	12.3%	11.9%	12.5%	12.0%
Libya	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	n.d.
Nigeria	19.5%	22.4%	24.1%	23.1%	25.6%	22.1%	22.2%	24.5%	22.8%	27.3%
South Africa	3.5%	4.3%	5.7%	6.5%	7.0%	7.9%	9.1%	10.0%	11.0%	10.1%
Asia-Pacific	19.3%	20.6%	21.1%	22.1%	23.2%	24.3%	25.1%	26.4%	26.7%	29.2%
Australia	13.3%	14.6%	15.7%	17.1%	19.7%	22.6%	26.7%	30.9%	33.9%	35.1%
China	23.6%	24.5%	24.6%	25.1%	26.1%	27.1%	27.5%	29.1%	29.5%	32.6%
India	14.1%	15.7%	16.5%	19.6%	21.3%	23.0%	23.7%	22.9%	22.1%	23.7%
Indonesia	10.3%	15.1%	12.3%	12.2%	12.3%	13.2%	12.8%	12.6%	11.6%	11.6%
Japan	14.2%	14.7%	16.2%	17.1%	18.6%	20.3%	21.1%	22.3%	23.4%	24.3%
Malaysia	10.0%	13.5%	16.9%	16.6%	16.1%	17.6%	19.1%	18.5%	18.0%	18.5%
New Zealand	80.5%	84.6%	81.5%	83.7%	82.0%	80.4%	81.4%	86.6%	87.6%	84.8%
South Korea	2.6%	3.5%	4.0%	4.6%	5.4%	6.4%	6.8%	8.0%	8.7%	9.5%
Taiwan	4.6%	5.4%	5.2%	5.2%	6.1%	5.9%	6.5%	8.7%	10.0%	12.1%
Thailand	7.9%	13.5%	14.2%	16.5%	17.6%	19.4%	17.7%	19.4%	19.1%	18.6%
OECD	23.5%	24.4%	25.7%	26.3%	27.7%	30.4%	30.1%	31.8%	33.5%	34.9%
Non-OECD	22.3%	23.4%	23.6%	24.5%	25.3%	26.3%	26.5%	27.6%	27.9%	29.8%
World	22.8%	23.9%	24.5%	25.3%	26.3%	28.0%	28.0%	29.2%	30.0%	31.7%



CO₂ Emissions from Fossil Fuels

Total CO ₂ Emissions (Million tonnes of carbon dioxide)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		6,216	6,109	6,055	6,213	6,076	5,467	5,782	5,863	5,702	5,669
Canada		581	580	598	620	617	559	573	586	583	576
Mexico		486	492	497	475	491	437	452	452	463	466
United States		5,149	5,037	4,960	5,118	4,968	4,471	4,757	4,824	4,656	4,626
South and Central America		1,399	1,351	1,323	1,286	1,278	1,149	1,282	1,273	1,278	1,276
Argentina		195	194	192	182	204	177	177	177	177	177
Brazil		540	498	503	479	479	457	521	494	495	505
Chile		85	90	91	91	96	89	93	94	84	84
Colombia		93	95	84	88	89	82	90	96	102	104
Peru		54	55	53	53	56	45	53	55	56	n.d.
Trinidad & Tobago		52	48	47	47	48	43	43	42	41	n.d.
Venezuela		171	158	147	133	113	70	72	86	88	92
Other		209	214	206	213	220	196	216	222	234	321
Europe		4,041	4,049	4,109	4,036	3,862	3,564	3,797	3,697	3,440	3,357
Belgium		96	94	94	94	94	88	91	85	82	81
Czech Republic		106	108	109	108	102	93	98	97	87	80
Finland		46	49	47	48	45	40	40	37	33	n.d.
France		329	331	336	330	324	287	313	303	281	273
Germany		777	784	766	743	696	643	671	655	590	575
Italy		352	347	344	339	331	296	331	332	307	300
Netherlands		167	169	166	161	155	140	144	131	122	121
Norway		48	47	47	47	46	45	45	45	43	41
Poland		306	318	331	331	313	298	327	311	284	279
Portugal		53	52	56	52	47	42	40	41	38	37
Romania		81	79	83	84	82	77	82	76	72	70
Spain		277	269	283	279	259	219	237	243	225	226
Sweden		42	42	41	39	38	37	39	36	35	36
Turkey		368	392	435	431	415	424	462	448	440	449
United Kingdom		421	392	381	374	359	319	338	325	308	294
EU		3,070	3,079	3,107	3,048	2,907	2,644	2,818	2,747	2,521	2,451
Other		571	575	589	577	556	515	539	529	493	497
Former Soviet Union		2,484	2,470	2,505	2,710	2,606	2,516	2,718	2,606	2,657	2,679
Azerbaijan		35	34	34	35	37	36	38	40	41	40
Kazakhstan		221	228	250	232	230	230	250	237	248	248
Russia		1,726	1,704	1,734	1,941	1,846	1,770	1,925	1,891	1,930	1,953
Ukraine		226	223	205	217	207	200	199	136	n.d.	n.d.
Uzbekistan		110	116	114	112	115	111	134	129	132	138
Other		166	165	168	174	172	170	173	173	306	300
Middle East		2,125	2,133	2,141	2,121	2,236	2,217	2,325	2,380	2,477	2,508
Iran		628	642	672	660	712	735	782	790	821	843
Iraq		141	154	166	180	193	183	199	219	229	238
Kuwait		96	98	97	99	99	98	107	102	102	106
Qatar		114	114	114	115	117	115	118	121	127	130
Saudi Arabia		653	643	611	589	630	619	648	677	720	718
United Arab Emirates		217	209	198	196	198	196	200	198	203	202
Other		277	273	282	282	287	271	271	272	275	271
Africa		1,391	1,432	1,453	1,465	1,512	1,428	1,512	1,501	1,488	1,571
Algeria		164	159	164	173	179	168	177	186	185	185
Angola		29	27	24	23	22	18	21	22	24	n.d.
Egypt		235	245	252	236	243	233	262	248	247	254
Libya		56	52	56	58	58	46	56	60	66	n.d.
Nigeria		112	115	114	119	123	117	127	127	125	125
South Africa		504	512	515	515	525	497	493	470	453	473
Other		292	322	329	342	362	350	376	387	388	533
Asia-Pacific		17,775	17,921	18,547	19,342	19,645	19,454	20,200	20,845	21,908	22,461
Australia		396	401	414	411	410	394	387	380	383	384
China		10,777	10,789	11,049	11,525	11,780	11,973	12,515	12,799	13,532	13,697
India		2,482	2,547	2,735	2,910	2,901	2,679	2,851	3,130	3,402	3,567
Indonesia		540	529	563	651	686	673	659	827	867	937
Japan		1,217	1,221	1,208	1,172	1,135	1,071	1,087	1,047	981	960
Malaysia		253	250	248	248	255	251	259	273	277	278
New Zealand		35	35	36	36	37	36	35	33	33	33
South Korea		652	664	684	701	676	632	654	631	609	595
Taiwan		306	310	317	311	301	300	311	300	292	286
Thailand		283	280	281	276	282	271	262	268	288	283
Other		834	896	1,011	1,101	1,181	1,174	1,181	1,157	1,245	1,441
OECD		12,555	12,482	12,495	12,560	12,199	11,161	11,740	11,656	11,168	11,030
Non-OECD		22,868	22,974	23,631	24,605	25,009	24,636	25,876	26,508	27,784	28,491
World		35,431	35,465	36,134	37,173	37,216	35,797	37,616	38,164	38,951	39,521

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

Oil CO ₂ Emissions (Million tonnes of carbon dioxide)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		2,458	2,472	2,461	2,493	2,472	2,128	2,293	2,360	2,334	2,313
Canada		253	251	257	263	261	226	229	240	241	232
Mexico		240	249	242	223	238	194	195	207	206	212
United States		1,964	1,972	1,962	2,007	1,972	1,707	1,870	1,913	1,887	1,868
South and Central America		790	757	738	715	705	619	674	701	716	728
Argentina		83	83	78	71	68	65	71	74	71	68
Brazil		325	296	300	281	284	273	292	297	305	304
Chile		44	47	47	48	48	44	47	52	51	52
Colombia		45	48	42	43	39	35	45	48	50	50
Peru		29	29	30	30	31	25	27	28	28	n.d.
Trinidad & Tobago		4	4	4	3	3	3	3	3	3	n.d.
Venezuela		88	77	71	65	54	23	21	23	25	27
Other		170	173	166	173	177	152	168	175	184	228
Europe		1,485	1,508	1,532	1,521	1,515	1,361	1,435	1,474	1,452	1,495
Belgium		43	42	41	41	40	36	38	37	37	37
Czech Republic		20	20	21	21	21	20	21	22	22	23
Finland		21	22	21	21	21	20	18	19	18	n.d.
France		186	184	183	177	175	153	167	169	162	162
Germany		240	243	241	238	245	230	215	220	209	207
Italy		149	144	137	140	138	116	137	148	147	148
Netherlands		47	48	47	48	47	42	43	43	44	39
Norway		23	23	22	22	21	20	21	21	20	19
Poland		60	67	76	78	80	77	83	84	84	84
Portugal		25	25	25	25	25	22	22	24	25	25
Romania		24	25	27	27	28	27	29	30	31	32
Spain		138	141	143	144	142	118	131	137	131	135
Sweden		26	26	25	23	23	22	24	22	21	22
Turkey		93	101	122	118	114	112	119	122	129	132
United Kingdom		157	160	161	158	156	129	139	142	142	140
EU		1,160	1,172	1,176	1,172	1,172	1,054	1,106	1,139	1,110	1,148
Other		233	237	240	239	240	218	229	234	229	289
Former Soviet Union		468	458	466	445	452	435	469	479	487	494
Azerbaijan		10	11	11	11	11	9	10	11	11	12
Kazakhstan		39	45	45	42	36	41	49	46	46	49
Russia		330	310	320	301	313	294	317	334	342	323
Ukraine		29	31	29	29	30	26	28	23	n.d.	n.d.
Uzbekistan		10	10	10	10	11	12	12	13	14	13
Other		50	51	50	52	51	52	53	52	74	97
Middle East		895	845	826	794	849	787	847	887	942	1,005
Iran		209	186	195	190	212	198	214	213	219	229
Iraq		90	91	97	101	105	94	109	129	139	148
Kuwait		47	46	46	45	43	41	47	46	41	40
Qatar		15	16	17	15	16	15	16	18	18	22
Saudi Arabia		378	355	311	281	320	302	323	341	382	375
United Arab Emirates		43	43	46	46	42	37	41	42	43	43
Other		113	107	114	115	112	100	96	98	100	149
Africa		538	538	527	527	529	493	546	565	562	606
Algeria		56	55	53	55	56	49	51	54	52	50
Angola		16	14	13	14	13	10	13	15	17	n.d.
Egypt		117	112	102	91	81	87	105	106	101	105
Libya		30	27	28	28	28	25	25	29	32	n.d.
Nigeria		53	55	56	59	63	55	62	66	63	63
South Africa		74	75	73	72	69	59	64	65	67	63
Other		191	199	201	207	219	208	225	230	231	325
Asia-Pacific		3,206	3,267	3,358	3,389	3,419	3,217	3,307	3,372	3,563	3,761
Australia		129	129	132	135	135	127	127	128	137	139
China		1,252	1,272	1,318	1,349	1,383	1,343	1,402	1,363	1,526	1,458
India		498	527	558	575	582	518	547	606	628	643
Indonesia		205	197	213	214	210	197	193	220	220	226
Japan		408	394	380	364	349	327	327	329	314	299
Malaysia		75	76	79	75	84	65	65	71	60	65
New Zealand		18	19	20	20	20	18	19	19	19	19
South Korea		161	167	161	157	158	150	153	149	143	140
Taiwan		73	73	72	68	66	63	62	62	62	59
Thailand		97	101	102	108	111	106	102	109	130	131
Other		290	313	324	323	322	303	311	316	323	582
OECD		4,694	4,728	4,718	4,723	4,676	4,135	4,386	4,497	4,435	4,440
Non-OECD		5,138	5,111	5,183	5,154	5,258	4,905	5,185	5,341	5,621	5,963
World		9,839	9,846	9,909	9,884	9,941	9,040	9,571	9,837	10,057	10,404

Natural Gas CO ₂ Emissions (Million tonnes of carbon dioxide)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		1,834	1,848	1,822	2,003	2,062	2,033	2,051	2,131	2,160	2,195
Canada		220	221	224	243	243	236	243	253	250	260
Mexico		144	146	150	149	148	139	151	135	148	149
United States		1,470	1,481	1,448	1,612	1,672	1,658	1,657	1,743	1,762	1,786
South and Central America		303	291	292	279	269	241	292	271	270	281
Argentina		86	87	88	83	79	75	92	80	78	80
Brazil		77	66	69	66	66	61	85	64	59	62
Chile		8	9	9	9	10	10	11	12	12	12
Colombia		24	24	22	23	23	20	20	21	23	24
Peru		16	17	15	15	16	13	17	18	20	n.d.
Trinidad & Tobago		31	28	28	28	29	25	25	24	24	n.d.
Venezuela		47	46	47	39	29	22	25	35	37	38
Other		14	15	15	15	16	15	16	16	19	64
Europe		933	988	1,032	1,009	1,021	997	1,065	945	872	883
Belgium		30	31	32	33	33	33	33	28	26	25
Czech Republic		15	17	17	16	17	17	18	15	13	13
Finland		5	5	5	5	5	5	5	3	3	n.d.
France		79	87	87	83	85	79	84	77	68	63
Germany		152	167	172	169	170	172	183	160	152	153
Italy		128	134	142	138	141	135	145	130	117	117
Netherlands		63	66	67	67	69	68	65	52	49	50
Norway		13	12	13	12	12	11	11	10	10	11
Poland		28	30	31	32	33	34	37	32	34	37
Portugal		10	10	13	12	12	12	12	11	9	7
Romania		20	20	21	22	20	21	22	19	18	19
Spain		56	57	62	62	71	64	67	66	58	56
Sweden		2	2	1	2	1	1	2	1	1	1
Turkey		92	88	103	94	86	92	113	100	94	99
United Kingdom		143	159	156	158	156	146	154	142	128	124
EU		674	716	747	733	754	735	773	680	628	638
Other		96	102	109	106	108	108	115	100	92	109
Former Soviet Union		1,041	1,053	1,075	1,186	1,110	1,057	1,185	1,115	1,138	1,281
Azerbaijan		20	20	20	21	22	23	23	25	26	24
Kazakhstan		25	28	30	32	39	34	42	41	45	44
Russia		767	775	796	906	825	785	884	834	856	906
Ukraine		58	57	56	57	52	53	51	38	n.d.	n.d.
Uzbekistan		82	87	86	80	83	76	96	88	86	90
Other		87	86	87	90	89	87	89	90	125	217
Middle East		902	945	966	974	1,038	1,074	1,111	1,134	1,169	1,214
Iran		340	366	380	373	408	441	466	476	492	501
Iraq		13	20	25	31	38	40	40	40	41	39
Kuwait		40	42	43	46	49	49	52	48	53	57
Qatar		66	66	67	68	71	69	70	73	76	76
Saudi Arabia		195	206	217	225	228	229	237	247	248	251
United Arab Emirates		145	138	123	120	128	130	127	130	135	135
Other		104	107	110	112	117	115	120	121	125	155
Africa		237	248	262	258	285	272	290	284	287	307
Algeria		73	71	75	80	83	81	88	95	97	99
Angola		1	2	2	2	2	3	3	2	2	n.d.
Egypt		77	88	99	88	109	99	104	92	93	95
Libya		17	16	17	16	17	14	16	18	17	n.d.
Nigeria		31	32	30	31	31	32	32	30	30	30
South Africa		5	5	5	5	5	5	4	4	4	4
Other		32	34	35	36	37	39	42	43	44	79
Asia-Pacific		1,307	1,334	1,407	1,513	1,544	1,565	1,663	1,651	1,704	1,871
Australia		67	68	71	73	75	78	75	75	75	73
China		371	402	470	559	595	630	711	721	773	830
India		62	69	76	80	79	77	86	81	91	100
Indonesia		88	65	64	68	67	59	57	56	58	63
Japan		240	245	239	229	219	218	207	198	189	184
Malaysia		76	68	59	57	64	60	69	74	74	75
New Zealand		7	7	7	7	7	7	6	5	6	5
South Korea		93	97	101	117	114	113	125	124	119	125
Taiwan		45	47	52	53	52	56	61	63	62	67
Thailand		85	83	78	80	84	76	76	69	73	71
Other		173	183	189	188	187	191	191	184	183	277
OECD		3,189	3,268	3,285	3,450	3,513	3,458	3,540	3,496	3,441	3,489
Non-OECD		3,368	3,440	3,571	3,772	3,816	3,782	4,118	4,035	4,159	4,543
World		6,557	6,707	6,856	7,223	7,329	7,240	7,659	7,532	7,600	8,032

Coal CO ₂ Emissions (Million tonnes of carbon dioxide)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		1,613	1,490	1,453	1,373	1,183	958	1,078	1,011	844	806
Canada		70	70	70	58	56	46	44	37	33	27
Mexico		53	47	51	43	43	32	27	37	35	32
United States		1,490	1,373	1,332	1,272	1,084	879	1,007	938	776	747
South and Central America		142	140	134	135	139	131	146	129	119	122
Argentina		9	8	8	9	7	7	9	9	9	6
Brazil		77	74	72	71	68	62	77	64	62	65
Chile		29	31	31	30	34	31	31	26	17	16
Colombia		15	15	12	14	17	17	15	16	18	19
Peru		3	3	3	3	3	2	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	0	0	0	0	0	0	0	0
Other		8	8	7	8	10	12	13	12	12	16
Europe		1,210	1,134	1,118	1,078	910	789	862	867	708	649
Belgium		10	8	8	8	8	6	7	7	6	7
Czech Republic		60	61	60	60	54	47	50	51	42	34
Finland		16	17	16	17	14	11	12	11	8	n.d.
France		27	24	30	33	27	22	27	23	17	16
Germany		310	298	277	265	211	173	200	212	167	154
Italy		45	40	35	33	24	18	19	27	16	8
Netherlands		42	39	35	31	23	15	21	21	14	16
Norway		3	3	3	3	3	3	3	3	3	3
Poland		193	193	195	190	170	157	177	165	136	127
Portugal		13	11	13	11	5	2	1	0	0	0
Romania		26	24	24	23	22	16	18	16	12	8
Spain		54	41	50	44	19	10	11	13	9	8
Sweden		6	5	6	6	5	4	5	4	4	4
Turkey		134	150	155	160	161	158	164	163	151	150
United Kingdom		95	48	39	33	23	21	21	20	17	10
EU		918	871	859	822	663	546	617	623	484	436
Other		176	171	172	163	141	124	127	129	106	106
Former Soviet Union		623	615	615	710	638	611	636	596	602	591
Azerbaijan		0	0	0	0	0	0	0	0	0	0
Kazakhstan		131	132	153	138	136	134	138	132	138	135
Russia		376	362	360	459	395	377	396	397	393	384
Ukraine		100	105	86	94	88	79	80	44	n.d.	n.d.
Uzbekistan		5	6	5	7	7	10	9	10	14	16
Other		11	10	11	12	11	11	12	13	57	56
Middle East		41	38	36	35	36	35	36	29	24	25
Iran		5	5	4	5	6	5	7	7	6	6
Iraq		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kuwait		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Qatar		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Saudi Arabia		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
United Arab Emirates		7	7	9	8	7	9	11	4	4	3
Other		29	25	23	22	23	20	19	18	15	16
Africa		407	431	444	455	473	454	450	431	416	449
Algeria		0	0	1	1	1	0	1	0	1	1
Angola		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Egypt		1	2	7	13	11	6	9	8	9	12
Libya		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Nigeria		1	1	1	1	1	2	3	3	3	3
South Africa		383	391	395	397	412	401	387	367	349	372
Other		20	37	40	43	49	46	49	52	54	61
Asia-Pacific		10,899	10,868	11,275	11,839	11,961	11,911	12,412	13,075	13,887	14,849
Australia		177	180	189	179	176	165	161	153	147	149
China		7,484	7,407	7,524	7,802	7,875	8,007	8,409	8,825	9,353	9,639
India		1,697	1,715	1,852	1,998	1,975	1,839	1,949	2,129	2,348	2,476
Indonesia		193	210	226	304	343	355	347	488	525	584
Japan		463	457	462	447	441	411	431	408	369	370
Malaysia		69	75	83	89	84	99	92	95	109	104
New Zealand		6	5	5	5	6	6	7	5	4	5
South Korea		322	312	333	344	324	284	286	269	261	243
Taiwan		162	165	169	166	161	158	164	152	144	138
Thailand		70	64	68	53	53	55	50	55	47	45
Other		255	279	365	451	523	532	518	495	579	1,097
OECD		3,747	3,534	3,512	3,384	3,007	2,584	2,790	2,671	2,301	2,198
Non-OECD		11,187	11,182	11,563	12,240	12,332	12,305	12,831	13,467	14,301	15,293
World		14,934	14,716	15,076	15,625	15,339	14,889	15,621	16,138	16,601	17,491

CO ₂ Emissions Intensity to GDP (kCO ₂ /thousand \$15ppp)		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America		276	266	256	256	242	223	224	221	208	201
Canada		341	337	333	331	323	309	298	294	288	281
Mexico		190	188	185	170	176	164	158	155	154	153
United States		270	260	249	250	235	216	218	215	201	195
South and Central America		175	172	168	160	160	152	155	149	147	144
Argentina		206	210	200	193	187	196	208	188	184	183
Brazil		160	151	150	140	139	136	149	136	133	130
Chile		201	209	209	199	211	207	195	193	170	165
Colombia		134	135	117	120	115	113	113	112	119	120
Peru		137	134	126	122	124	113	113	116	120	n.d.
Trinidad & Tobago		880	842	892	890	895	865	862	850	801	n.d.
Venezuela		235	260	293	323	357	270	279	330	334	331
Europe		160	157	155	148	139	135	134	126	116	111
Belgium		167	161	158	157	152	147	145	129	123	120
Czech Republic		272	269	259	249	228	220	224	214	189	169
Finland		185	193	176	179	164	150	144	134	119	n.d.
France		110	110	110	106	101	97	99	94	86	83
Germany		182	180	170	164	151	145	146	142	128	125
Italy		145	142	138	135	131	128	131	127	116	113
Netherlands		180	177	169	160	151	140	136	117	108	104
Norway		127	123	119	117	113	110	106	101	97	92
Poland		276	279	276	259	234	226	234	210	190	181
Portugal		156	151	160	144	126	119	107	102	94	87
Romania		165	157	151	143	135	130	133	121	111	106
Spain		153	143	148	142	130	121	123	119	107	104
Sweden		76	74	72	66	63	62	63	57	55	56
Turkey		158	162	170	163	157	155	152	140	130	128
United Kingdom		144	132	124	120	114	112	110	102	96	91
EU		164	162	158	152	141	135	136	128	116	112
Former Soviet Union		422	419	414	436	400	394	406	400	391	378
Azerbaijan		211	222	220	220	227	229	229	235	239	221
Kazakhstan		481	500	533	476	452	461	484	446	447	425
Russia		426	419	419	460	417	408	423	423	415	404
Ukraine		434	437	378	384	351	349	341	321	n.d.	n.d.
Uzbekistan		464	463	435	397	388	370	408	366	352	347
Middle East		376	357	353	344	365	371	375	363	373	370
Iran		490	453	459	458	519	519	527	515	505	501
Iraq		294	280	313	328	336	360	392	415	454	472
Kuwait		502	496	521	519	512	532	569	509	527	562
Qatar		334	332	345	336	347	349	350	356	369	370
Saudi Arabia		369	355	331	308	329	331	333	325	350	343
United Arab Emirates		320	293	273	265	267	278	272	249	247	237
Africa		199	200	196	191	192	186	188	180	172	177
Algeria		234	219	220	229	234	231	239	246	236	228
Angola		89	81	76	79	83	72	88	90	98	n.d.
Egypt		180	179	177	155	153	141	156	138	131	133
Libya		408	380	292	272	306	371	311	383	368	n.d.
Nigeria		86	91	88	91	93	88	94	92	87	84
South Africa		609	616	613	603	616	628	588	552	527	548
Asia-Pacific		350	340	330	330	320	320	310	310	310	300
Australia		339	334	338	326	317	305	292	275	269	267
China		501	468	449	438	420	416	404	407	413	402
India		313	296	298	299	286	281	271	277	278	275
Indonesia		185	171	174	192	194	195	183	223	223	231
Japan		218	215	209	201	195	193	190	183	169	165
Malaysia		288	274	261	250	250	255	250	244	238	228
New Zealand		182	170	174	165	169	158	152	136	134	135
South Korea		306	298	300	301	283	263	260	244	232	222
Taiwan		529	527	522	498	469	451	437	411	396	372
Thailand		226	215	207	194	195	199	188	189	200	192
OECD		218	212	206	202	193	183	181	175	164	159
Non-OECD		340	326	321	319	311	310	310	310	310	310
World		281	272	267	265	256	252	250	246	244	239

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

CO ₂ Emissions per capita (tCO ₂ per capita)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	13.0	12.7	12.5	12.7	12.4	11.0	11.6	11.7	11.3	11.1
Canada	16.3	16.1	16.4	16.7	16.4	14.7	15.0	15.1	14.5	14.0
Mexico	4.0	4.0	4.0	3.8	3.9	3.4	3.5	3.5	3.6	3.6
United States	16.1	15.6	15.3	15.7	15.1	13.5	14.3	14.5	13.9	13.7
South and Central America	2.8	2.7	2.6	2.5	2.5	2.2	2.5	2.4	2.4	2.4
Argentina	4.5	4.4	4.3	4.1	3.9	3.7	4.2	4.1	3.9	3.7
Brazil	2.7	2.5	2.5	2.3	2.3	2.2	2.5	2.3	2.3	2.4
Chile	4.7	4.9	4.9	4.8	5.0	4.6	4.8	4.8	4.3	4.2
Colombia	2.0	2.0	1.8	1.8	1.8	1.6	1.8	1.8	1.9	2.0
Peru	1.8	1.8	1.7	1.7	1.7	1.4	1.6	1.6	1.7	n.d.
Trinidad & Tobago	38.4	35.2	34.4	34.6	35.5	31.4	31.6	31.0	29.9	n.d.
Venezuela	5.6	5.1	4.8	4.5	3.9	2.5	2.6	3.0	3.1	3.3
Other	1.7	1.7	1.7	1.7	1.7	1.5	1.7	1.7	1.8	2.4
Europe	6.5	6.5	6.6	6.4	6.1	5.7	6.0	5.8	5.4	5.3
Belgium	8.5	8.3	8.2	8.2	8.2	7.6	7.9	7.3	6.9	6.9
Czech Republic	10.1	10.2	10.3	10.1	9.5	8.7	9.3	9.1	8.0	7.3
Finland	8.5	9.0	8.5	8.7	8.1	7.3	7.2	6.7	5.9	n.d.
France	4.9	5.0	5.0	4.9	4.8	4.2	4.6	4.5	4.1	4.0
Germany	9.5	9.5	9.3	9.0	8.4	7.7	8.1	7.8	7.1	6.9
Italy	5.8	5.7	5.7	5.6	5.5	5.0	5.6	5.6	5.2	5.1
Netherlands	9.9	9.9	9.7	9.3	9.0	8.0	8.2	7.4	6.8	6.7
Norway	9.3	9.1	9.0	8.9	8.6	8.3	8.4	8.2	7.8	7.3
Poland	8.1	8.4	8.7	8.7	8.3	7.9	8.8	8.5	7.8	7.6
Portugal	5.1	5.0	5.5	5.1	4.6	4.0	3.8	3.9	3.6	3.4
Romania	4.1	4.0	4.2	4.3	4.2	4.0	4.3	4.0	3.8	3.7
Spain	6.0	5.8	6.1	6.0	5.5	4.6	5.0	5.1	4.7	4.6
Sweden	4.3	4.2	4.1	3.8	3.7	3.6	3.8	3.4	3.3	3.4
Turkey	4.7	4.9	5.4	5.3	5.0	5.1	5.5	5.3	5.2	5.2
United Kingdom	6.5	6.0	5.8	5.6	5.4	4.8	5.0	4.8	4.5	4.3
EU	6.9	6.9	7.0	6.8	6.5	5.9	6.3	6.1	5.6	5.4
Other	6.1	6.2	6.3	6.2	6	6	6	6	5	5
Former Soviet Union	8.0	8.0	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Azerbaijan	3.2	3.3	3.3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Kazakhstan	13.0	13.1	13.2	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Russia	11.1	11.0	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1
Ukraine	4.2	4.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Uzbekistan	2.9	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Other	166	165	168	174	172	170	173	173	306	300
Middle East	8.7	8.5	8.4	8.2	8.5	8.3	8.6	8.6	8.7	8.6
Iran	7.6	7.7	7.9	7.7	8.2	8.4	8.8	8.8	9.1	9.2
Iraq	3.8	4.0	4.2	4.5	4.7	4.3	4.6	5.0	5.1	5.2
Kuwait	25.0	24.5	23.4	22.9	22.3	22.4	24.6	22.3	21.1	21.4
Qatar	48.6	46.0	44.7	44.5	44.5	41.2	47.2	45.6	47.9	48.6
Saudi Arabia	21.9	20.8	19.7	19.5	21.0	19.6	21.1	21.0	21.6	20.6
United Arab Emirates	25.5	23.4	21.5	21.0	21.0	20.9	20.8	19.6	19.3	18.7
Other	3.4	3.3	3.4	3.3	3.3	3.0	3.0	2.9	2.8	2.7
Africa	1.1	1.1	1.1	1.1	1.1	1.0	1.1	1.0	1.0	1.0
Algeria	4.1	3.9	3.9	4.1	4.1	3.8	4.0	4.1	4.0	4.0
Angola	1.0	0.9	0.8	0.7	0.7	0.5	0.6	0.6	0.7	n.d.
Egypt	2.4	2.4	2.4	2.2	2.3	2.1	2.4	2.2	2.2	2.2
Libya	8.6	7.8	8.3	8.4	8.3	6.5	7.9	n.d.	n.d.	n.d.
Nigeria	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5
South Africa	8.9	8.9	8.9	8.8	8.8	8.2	8.0	7.5	7.2	7.4
Other	0.37	0.39	0.39	0.40	0.41	0.38	0.40	0.40	0.40	0.53
Asia-Pacific	4.3	4.3	4.5	4.6	4.6	4.6	4.7	4.8	5.1	5.2
Australia	16.6	16.6	16.9	16.5	16.2	15.4	15.0	14.6	14.4	14.3
China	7.8	7.8	7.9	8.2	8.4	8.5	8.9	9.1	9.6	9.7
India	1.9	1.9	2.0	2.1	2.1	1.9	2.0	2.2	2.4	2.5
Indonesia	2.1	2.0	2.1	2.4	2.5	2.4	2.4	3.0	3.1	3.3
Japan	9.6	9.6	9.5	9.2	9.0	8.5	8.6	8.4	7.9	7.7
Malaysia	8.1	7.9	7.7	7.5	7.6	7.4	7.6	7.9	7.9	7.8
New Zealand	7.7	7.4	7.5	7.3	7.5	7.0	6.9	6.5	6.3	6.2
South Korea	12.8	13.0	13.3	13.6	13.1	12.2	12.6	12.2	11.8	11.5
Taiwan	13.0	13.2	13.5	13.2	12.8	12.7	13.1	12.7	12.3	12.1
Thailand	4.0	4.0	4.0	3.9	3.9	3.8	3.7	3.7	4.0	3.9
Other	1.1	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
OECD	9.5	9.4	9.3	9.3	9.0	8.2	8.6	8.5	8.1	7.9
Non-OECD	3.7	3.7	3.8	3.9	3.9	3.8	4.0	4.0	4.2	4.2
World	4.8	4.7	4.8	4.8	4.8	4.6	4.8	4.8	4.8	4.9

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



Primary Energy Intensity to GDP

Primary Energy Intensity to GDP (ktep/\$15ppp)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
North America	124	121	118	118	115	109	108	107	103	101
Canada	175	180	182	180	178	175	170	168	165	163
Mexico	81	79	76	76	76	78	76	75	74	73
United States	119	116	113	113	110	103	102	102	98	96
South and Central America	91	91	89	87	89	89	90	86	86	86
Argentina	95	97	93	93	95	97	98	92	93	93
Brazil	106	105	106	102	103	105	106	100	102	102
Chile	90	94	94	92	97	93	90	90	86	88
Colombia	64	65	61	62	66	65	64	56	59	61
Peru	64	65	66	65	65	61	59	58	63	n.d.
Trinidad & Tobago	473	449	475	480	483	455	481	465	443	n.d.
Venezuela	109	120	136	135	168	189	223	232	227	226
Europe	78	78	77	74	72	71	70	64	61	60
Belgium	101	106	104	98	99	96	99	87	80	80
Czech Republic	117	113	112	109	104	103	105	100	91	86
Finland	141	143	138	138	134	131	133	124	130	n.d.
France	93	90	88	86	83	81	81	71	72	72
Germany	78	77	75	72	70	68	68	63	57	57
Italy	68	66	66	64	64	64	64	59	56	54
Netherlands	84	84	83	79	76	76	74	63	60	59
Norway	80	88	90	89	84	84	84	69	76	73
Poland	93	95	94	93	85	85	84	76	71	68
Portugal	72	70	71	66	64	64	61	57	54	52
Romania	74	72	70	66	63	64	64	57	54	53
Spain	72	71	72	70	67	68	67	63	59	58
Sweden	93	97	98	98	94	86	87	82	81	81
Turkey	64	66	66	63	63	62	60	56	53	55
United Kingdom	66	63	61	59	56	58	55	50	48	47
EU	82	81	80	78	75	74	74	67	64	63
Former Soviet Union	190	193	194	199	184	186	194	197	193	190
Azerbaijan	99	102	102	101	108	110	110	111	111	104
Kazakhstan	145	159	159	161	156	148	148	142	142	134
Russia	199	203	206	214	196	200	212	213	209	205
Ukraine	215	207	198	200	185	186	121	n.d.	n.d.	n.d.
Uzbekistan	207	195	191	168	167	163	176	161	154	153
Middle East	162	159	159	157	165	168	167	162	164	164
Iran	213	200	210	204	232	231	228	218	210	213
Iraq	112	105	120	132	134	136	153	152	162	163
Kuwait	200	224	225	224	225	216	209	221	240	250
Qatar	184	173	195	193	191	198	201	199	207	206
Saudi Arabia	161	166	160	157	162	160	161	155	162	159
United Arab Emirates	141	136	117	119	121	134	129	123	125	121
Africa	116	116	113	111	112	111	112	109	107	106
Algeria	98	93	95	100	103	101	105	109	101	92
Angola	65	64	65	70	72	68	72	70	73	n.d.
Egypt	75	78	79	72	68	70	72	63	60	62
Libya	186	190	161	134	169	107	127	159	148	n.d.
Nigeria	66	71	61	57	63	64	70	64	62	61
South Africa	181	177	173	175	180	178	172	167	168	166
Asia-Pacific	130	120	120	120	120	120	120	120	120	120
Australia	118	114	114	111	111	111	106	99	97	96
China	163	153	148	146	144	145	143	146	148	146
India	120	115	114	111	107	109	106	107	105	103
Indonesia	78	80	74	81	84	79	76	87	85	86
Japan	85	84	83	81	80	77	79	76	72	72
Malaysia	108	102	99	103	106	103	106	102	96	94
New Zealand	118	112	109	107	106	100	97	89	88	88
South Korea	142	143	143	141	134	131	132	127	123	123
Taiwan	223	220	213	209	198	188	183	171	160	152
Thailand	122	116	112	110	107	109	105	100	100	95
OECD	99	97	95	94	92	89	88	84	82	81
Non-OECD	135	132	130	128	127	129	128	128	128	126
World	121	119	117	116	114	113	112	111	110	109

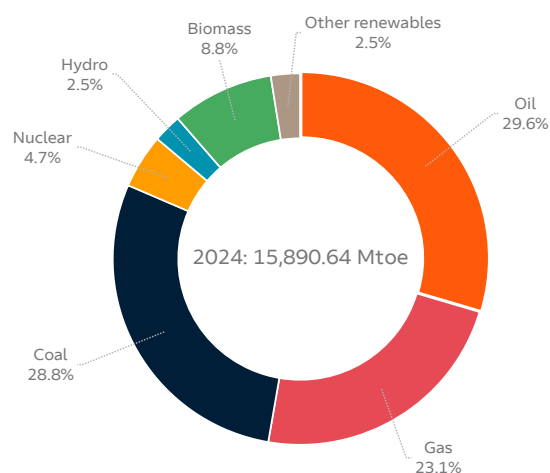


Regional
and country
data

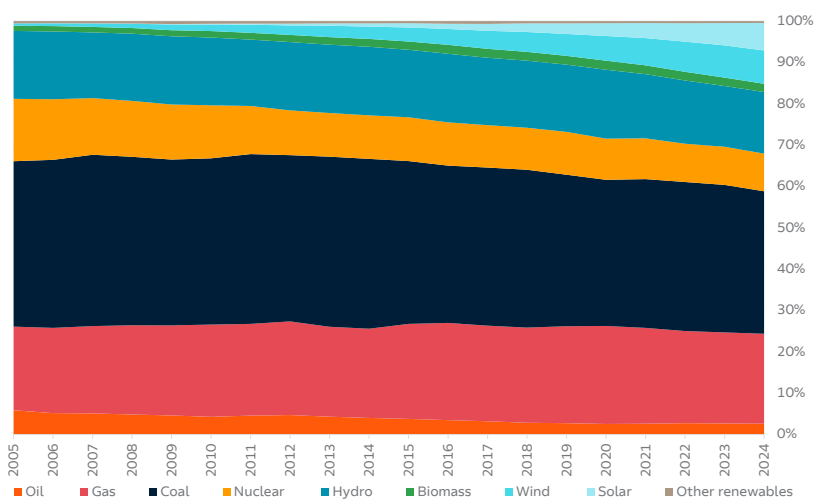
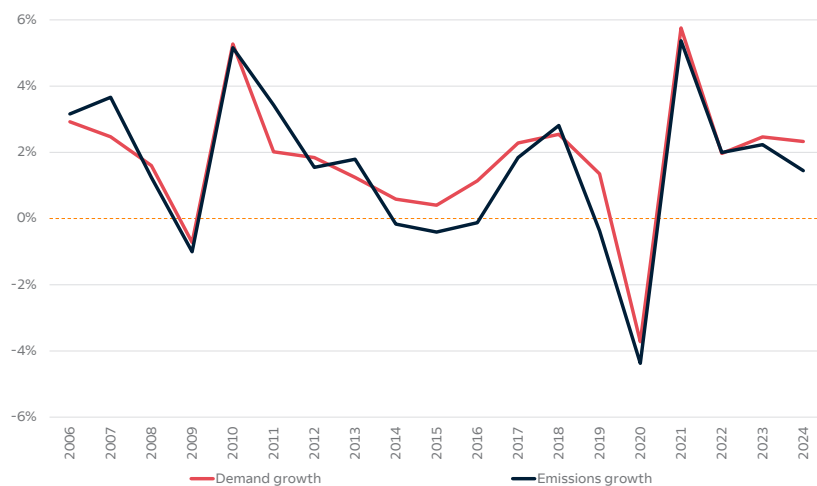
World (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	13,578.6	13,733.1	14,046.5	14,403.6	14,597.8	14,054.6	14,863.6	15,155.8	15,529.3	15,890.6	100.0
Oil	4,382.0	4,445.8	4,542.7	4,532.1	4,586.0	4,180.7	4,424.1	4,525.6	4,630.1	4,662.6	29.3
Gas	2,947.9	3,053.9	3,144.4	3,308.9	3,365.5	3,346.8	3,537.4	3,496.5	3,529.5	3,642.1	22.9
Coal	3,858.3	3,772.3	3,835.5	3,949.5	3,960.7	3,840.1	4,109.0	4,311.1	4,445.1	4,533.5	28.5
Nuclear	670.1	680.0	687.4	705.7	726.7	698.0	730.0	701.8	719.6	740.4	4.7
Hydro	334.3	346.6	350.6	361.5	367.7	374.7	369.3	373.2	368.2	388.9	2.4
Biomass	1,194.5	1,221.3	1,245.2	1,278.8	1,296.0	1,289.6	1,326.5	1,335.4	1,364.2	1,389.8	8.7
Other renewables	94.9	111.5	135.5	160.4	185.0	212.1	251.2	296.3	340.1	394.9	2.5
Electricity balance of trade*	96.5	101.8	105.2	106.7	110.1	112.7	116.2	116.0	132.4	138.4	0.9
Total final consumption, by source	9,281.7	9,402.9	9,589.1	9,821.4	9,880.8	9,469.6	9,899.7	10,168.1	10,447.2	10,682.6	100.0
Oil	3,820.3	3,890.9	3,983.4	4,002.2	4,021.1	3,636.4	3,853.2	3,950.4	4,075.9	4,087.3	38.3
Gas	1,383.6	1,418.2	1,472.1	1,561.2	1,602.6	1,568.9	1,660.6	1,665.2	1,670.6	1,714.2	16.0
Coal	1,101.6	1,043.6	1,010.9	1,020.5	974.9	985.4	934.4	1,009.3	1,060.6	1,107.7	10.4
Electricity	1,734.7	1,782.1	1,839.6	1,910.1	1,940.1	1,936.6	2,043.0	2,106.5	2,158.1	2,246.8	21.0
Heat	303.8	317.2	323.6	339.5	340.0	346.8	385.3	402.6	425.1	455.0	4.3
Biomass	937.4	950.7	959.3	987.7	1,001.8	995.1	1,023.1	1,033.9	1,056.8	1,071.5	10.0
Electricity generation, by source	2,090.9	2,145.9	2,210.8	2,290.1	2,318.0	2,309.8	2,441.4	2,505.5	2,575.1	2,683.1	100.0
Oil	78.8	74.8	71.0	65.2	63.6	59.0	63.6	68.9	69.0	70.1	2.6
Gas	480.9	504.5	510.9	527.3	543.8	547.3	566.4	558.2	567.3	584.0	21.8
Coal	823.6	817.0	845.9	874.6	849.7	816.9	878.3	903.5	919.2	924.8	34.5
Nuclear	221.1	224.4	226.8	232.9	239.8	230.3	240.9	231.6	237.5	244.3	9.1
Hydro	341.9	355.9	360.5	371.1	377.1	384.3	378.9	383.3	378.4	399.8	14.9
Biomass	41.3	46.7	47.8	49.2	49.6	51.3	52.6	53.0	52.4	53.7	2.0
Wind	71.2	81.7	96.2	109.6	122.6	137.5	160.5	182.2	200.5	216.2	8.1
Solar	21.5	27.4	36.9	48.5	59.6	71.9	88.6	112.1	139.0	178.2	6.6
Other renewables	10.7	13.6	14.9	11.9	12.2	11.2	11.7	12.6	11.9	12.0	0.4
Total final consumption, by sector	9,281.7	9,402.9	9,589.1	9,821.4	9,880.8	9,469.6	9,899.7	10,168.1	10,447.2	10,682.6	100.0
Industry	2,817.7	2,798.5	2,841.0	2,934.1	2,919.2	2,919.1	3,003.8	3,139.7	3,255.3	3,378.3	31.6
Transport	2,653.2	2,704.3	2,771.3	2,806.3	2,840.7	2,451.3	2,638.4	2,742.4	2,841.7	2,865.5	26.8
Residential/Commercial	2,651.9	2,697.9	2,735.5	2,821.7	2,842.3	2,804.5	2,919.7	2,936.4	2,955.9	3,033.0	28.4
Oil final consumption, by sector	3,820.3	3,890.9	3,983.4	4,002.2	4,021.1	3,636.4	3,853.2	3,950.4	4,075.9	4,087.3	100.0
Industry	260.8	259.6	258.5	251.1	246.4	229.1	235.6	245.5	251.6	250.3	6.1
Transport	2,498.7	2,543.3	2,602.4	2,627.7	2,650.0	2,266.8	2,439.1	2,539.7	2,627.9	2,640.6	64.6
Residential/Commercial	289.7	288.3	293.3	291.8	285.6	284.9	280.7	275.4	281.6	284.6	7.0
Natural gas final consumption, by sector	1,383.6	1,418.2	1,472.1	1,561.2	1,602.6	1,568.9	1,660.6	1,665.2	1,670.6	1,714.2	100.0
Industry	553.5	564.6	582.7	612.9	630.2	632.0	676.2	701.4	719.3	742.6	43.3
Transport	45.3	47.9	51.0	52.8	57.3	56.9	62.0	60.8	61.8	65.9	3.8
Residential/Commercial	598.4	609.6	626.3	673.5	687.6	667.9	701.7	688.9	668.5	678.5	39.6
Refined products consumption	3,803.5	3,878.4	3,972.5	3,990.5	4,016.8	3,631.5	3,848.0	3,946.8	4,070.9	4,082.9	100.0
Gasoline	1,053.9	1,078.9	1,092.0	1,103.5	1,113.3	985.5	1,063.8	1,089.5	1,122.8	1,127.8	27.6
Diesel	1,273.8	1,275.3	1,295.6	1,298.6	1,299.4	1,193.6	1,253.2	1,286.5	1,296.8	1,276.1	31.3
Heating Oil	242.3	233.6	235.6	227.7	225.0	212.3	223.5	230.3	236.2	237.1	5.8
Aviation Jet	117.1	121.6	131.7	136.0	137.3	95.7	113.2	271.9	314.6	333.5	8.2
LPG	266.2	285.3	292.7	305.7	311.9	310.3	318.9	324.2	334.5	336.4	8.2
Imports	4,433.5	4,607.0	4,781.0	4,838.1	4,809.0	4,463.1	4,613.7	4,739.6	4,813.6	4,850.9	100.0
Oil	3,594.0	3,724.8	3,845.8	3,867.6	3,808.1	3,491.0	3,581.2	3,706.5	3,822.5	3,826.6	78.9
Gas	839.6	882.2	935.2	970.5	1,000.8	972.1	1,032.6	1,033.1	991.1	1,024.3	21.1
Gasoline	223.5	237.3	238.1	247.2	254.8	227.4	251.9	264.9	268.8	261.1	5.4
Diesel	365.6	388.4	390.5	391.0	386.4	355.3	375.3	383.4	392.3	380.7	7.8
Heating Oil	242.2	236.2	222.7	216.5	203.2	197.0	212.5	209.6	224.0	224.4	4.6
Aviation Jet	80.3	91.0	95.6	97.1	95.0	60.1	57.4	73.5	82.4	118.2	2.4
LPG	110.4	122.0	127.9	133.3	140.4	140.0	147.6	155.1	161.2	169.6	3.5
Exports	4,506.0	4,709.8	4,816.2	4,885.8	4,860.1	4,538.2	4,618.6	4,768.5	4,781.6	4,765.3	100.0
Oil	3,641.2	3,798.8	3,849.5	3,921.1	3,818.9	3,533.1	3,560.6	3,705.6	3,747.9	3,710.1	77.9
Gas	864.9	911.1	966.7	964.7	1,041.2	1,005.1	1,058.0	1,063.0	1,033.8	1,055.3	22.1
Gasoline	225.4	239.2	244.4	253.9	246.6	225.7	244.7	254.8	250.8	253.7	5.3
Diesel	381.7	412.5	424.2	431.9	424.2	396.7	406.9	399.2	398.3	406.6	8.5
Heating Oil	299.6	290.2	279.5	276.5	234.8	216.7	233.4	233.3	235.6	234.3	4.9
Aviation Jet	92.8	96.7	100.4	107.6	103.5	74.8	72.0	80.6	88.7	99.1	2.1
LPG	114.2	112.8	117.6	124.0	126.6	129.1	133.5	144.4	153.5	161.4	3.4
CO₂ Emissions (Million tons CO₂)	31,519.7	31,479.8	32,058.6	32,959.2	32,836.5	31,400.3	33,086.0	33,746.4	34,499.4	34,997.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	281.0	271.9	266.8	264.7	256.5	252.4	249.8	246.3	243.7	239.5	-
Final energy intensity (toe/million \$15ppp)	74.8	73.3	71.8	71.1	69.4	68.0	66.8	66.5	66.1	65.5	-
Total energy intensity (toe/million \$15ppp)	121.1	118.6	116.9	115.7	114.0	113.0	112.2	110.6	109.7	108.7	-

*Heat is included

Primary energy demand mix



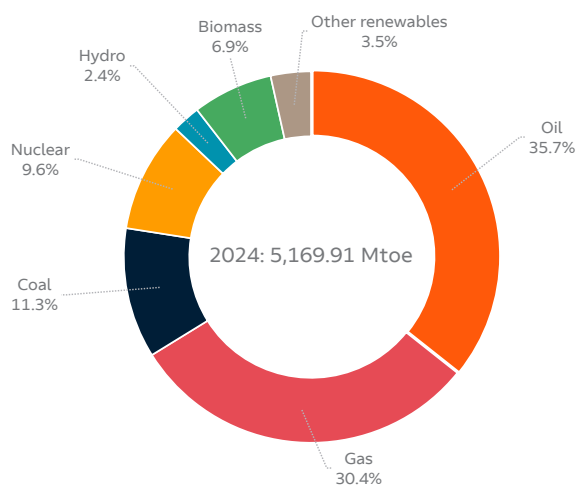
Electricity generation by source

Primary energy demand and CO₂ emissions growth

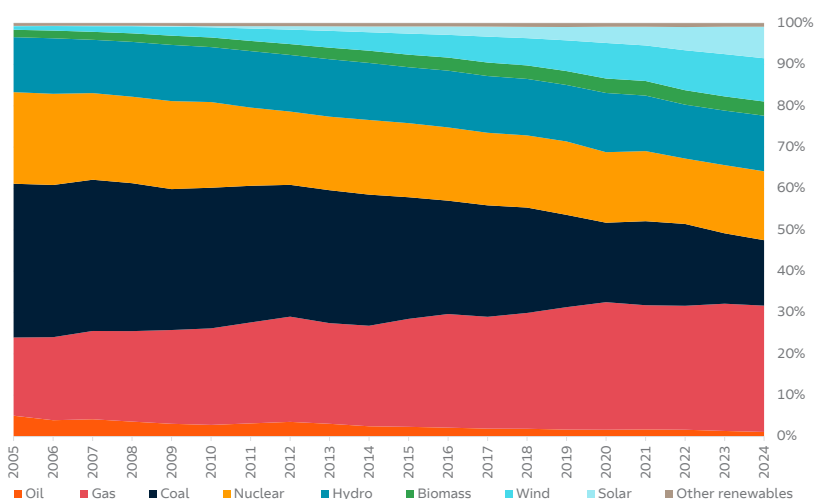
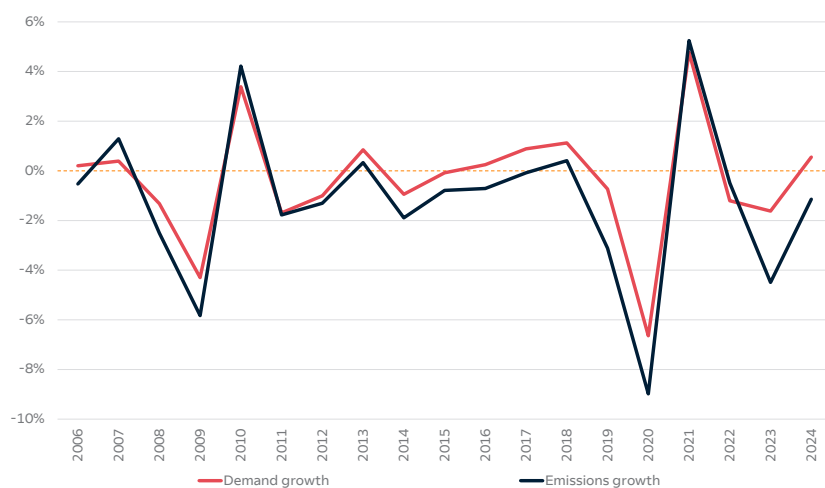
OECD (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	5,327.1	5,340.5	5,387.7	5,448.4	5,408.4	5,049.2	5,290.1	5,226.3	5,141.5	5,169.9	100.0
Oil	1,907.4	1,908.0	1,928.1	1,923.2	1,909.7	1,726.1	1,833.4	1,824.0	1,823.6	1,822.5	35.3
Gas	1,389.8	1,440.1	1,457.4	1,517.8	1,565.8	1,534.3	1,568.7	1,559.1	1,530.3	1,552.9	30.0
Coal	963.7	912.3	905.4	877.0	787.0	669.6	727.8	703.1	609.8	578.3	11.2
Nuclear	513.6	512.3	509.6	515.8	517.4	485.1	498.8	465.8	477.2	492.0	9.5
Hydro	123.0	125.5	125.7	127.9	125.9	128.6	124.7	120.0	119.9	124.4	2.4
Biomass	315.3	319.6	327.7	339.4	342.9	331.9	351.3	347.8	350.2	354.5	6.9
Other renewables	66.7	73.8	85.7	92.8	104.7	119.5	129.1	149.6	161.9	177.2	3.4
Electricity balance of trade*	47.6	48.8	48.2	54.6	55.0	54.1	56.4	56.9	68.6	68.1	1.3
Total final consumption, by source	3,638.6	3,674.7	3,714.1	3,771.9	3,741.4	3,487.8	3,646.5	3,644.8	3,583.6	3,589.2	100.0
Oil	1,725.5	1,743.4	1,758.0	1,758.7	1,747.7	1,568.9	1,657.4	1,678.9	1,669.5	1,662.0	46.3
Gas	710.6	720.2	738.7	769.0	767.7	726.8	762.0	739.5	704.4	704.6	19.6
Coal	112.5	107.0	108.0	104.1	96.9	91.3	92.7	87.0	78.2	73.6	2.1
Electricity	814.6	824.6	826.1	842.7	830.9	816.2	836.8	844.0	832.4	847.6	23.6
Heat	67.1	70.4	71.1	72.6	71.9	70.2	72.3	68.6	68.0	67.6	1.9
Biomass	208.4	209.2	212.2	224.8	226.4	214.4	225.3	226.8	231.2	233.7	6.5
Electricity generation, by source	946.8	954.8	958.6	975.8	961.5	937.5	971.1	969.4	955.6	974.7	100.0
Oil	22.1	20.6	18.4	18.2	16.3	15.5	16.7	15.8	12.8	10.8	1.1
Gas	247.5	262.4	259.3	273.6	284.8	289.1	291.9	290.9	294.4	297.7	30.5
Coal	278.6	261.8	258.5	248.8	214.6	180.2	197.2	191.7	162.6	154.5	15.9
Nuclear	169.5	169.1	168.2	170.2	170.8	160.1	164.6	153.7	157.5	162.4	16.7
Hydro	128.1	131.0	131.6	133.4	131.2	134.3	130.3	126.2	126.2	131.1	13.4
Biomass	28.8	30.4	31.3	31.9	32.4	32.9	34.3	33.7	32.6	33.3	3.4
Wind	48.2	52.3	60.1	64.1	71.6	80.5	83.6	93.9	98.0	102.2	10.5
Solar	16.4	19.4	23.3	26.7	30.9	37.0	44.1	54.3	63.2	74.2	7.6
Other renewables	7.6	7.7	8.0	8.9	9.1	8.0	8.3	9.2	8.3	8.5	0.9
Total final consumption, by sector	3,638.6	3,674.7	3,714.1	3,771.9	3,741.4	3,487.8	3,646.5	3,644.8	3,583.6	3,589.2	100.0
Industry	819.1	827.5	837.1	855.4	833.5	813.9	837.9	829.4	806.8	811.4	22.6
Transport	1,202.8	1,221.7	1,231.9	1,246.0	1,244.2	1,070.5	1,159.2	1,195.5	1,202.3	1,194.8	33.3
Residential/Commercial	1,165.5	1,166.9	1,171.2	1,204.1	1,195.6	1,162.2	1,192.6	1,177.9	1,136.3	1,142.2	31.8
Oil final consumption, by sector	1,725.5	1,743.4	1,758.0	1,758.7	1,747.7	1,568.9	1,657.4	1,678.9	1,669.5	1,662.0	100.0
Industry	82.4	81.5	81.3	81.3	77.5	78.9	81.8	82.3	81.1	80.1	4.8
Transport	1,141.6	1,157.8	1,166.7	1,179.1	1,175.8	1,006.8	1,089.5	1,121.6	1,121.5	1,113.0	67.0
Residential/Commercial	117.1	116.8	114.5	111.3	108.3	109.4	103.0	101.5	97.5	97.1	5.8
Natural gas final consumption, by sector	710.6	720.2	738.7	769.0	767.7	726.8	762.0	739.5	704.4	704.6	100.0
Industry	266.0	273.8	277.9	284.0	282.5	277.7	287.4	279.4	273.5	276.9	39.3
Transport	4.8	4.7	4.8	4.7	5.0	4.6	5.1	5.3	5.3	4.8	0.7
Residential/Commercial	397.4	395.6	403.7	427.5	427.5	405.9	423.9	415.2	385.8	383.2	54.4
Refined products consumption	1,718.8	1,738.0	1,751.2	1,751.1	1,746.1	1,567.3	1,655.8	1,677.3	1,666.6	1,659.9	100.0
Gasoline	600.4	609.2	604.8	607.7	607.1	522.9	563.3	579.8	589.0	591.4	35.6
Diesel	609.3	613.3	623.3	627.4	619.8	566.7	593.2	598.5	579.4	564.8	34.0
Heating Oil	20.2	18.3	17.4	16.2	14.2	12.6	14.5	15.2	12.8	12.0	0.7
Aviation Jet	74.1	76.4	79.7	81.1	82.0	50.2	62.4	73.5	79.4	80.9	4.9
LPG	108.8	107.9	105.4	110.8	112.9	108.2	109.0	110.9	108.8	107.6	6.5
Imports	2,636.2	2,719.4	2,771.3	2,753.9	2,710.9	2,414.2	2,520.6	2,599.5	2,529.3	2,522.4	100.0
Oil	2,035.5	2,086.4	2,116.6	2,092.6	2,031.5	1,778.1	1,847.4	1,902.3	1,892.0	1,897.0	75.2
Gas	600.8	633.1	654.7	661.3	679.4	636.1	673.1	697.2	637.3	625.5	24.8
Gasoline	92.3	100.2	98.0	100.1	108.0	88.0	105.5	100.6	105.9	105.2	4.2
Diesel	188.1	201.3	200.1	198.5	198.0	187.4	191.8	198.1	201.8	199.8	7.9
Heating Oil	87.5	85.0	67.5	68.1	57.9	60.6	67.7	65.7	58.9	58.1	2.3
Aviation Jet	50.3	55.3	58.3	60.7	62.9	40.6	40.3	52.2	59.1	69.8	2.8
LPG	53.9	58.6	59.1	59.8	62.5	60.8	62.8	64.8	63.0	62.6	2.5
Exports	1,400.1	1,462.4	1,558.4	1,633.0	1,699.6	1,656.1	1,723.8	1,831.3	1,875.1	1,897.4	100.0
Oil	1,106.8	1,140.3	1,207.9	1,272.4	1,300.9	1,246.8	1,272.1	1,318.9	1,357.5	1,377.6	72.6
Gas	293.3	322.2	350.5	360.5	398.8	409.3	451.7	512.3	517.7	519.8	27.4
Gasoline	135.7	141.9	150.4	153.1	152.0	129.6	148.3	149.2	143.5	142.6	7.5
Diesel	207.1	212.4	226.1	210.8	214.7	201.8	201.6	210.0	206.5	218.8	11.5
Heating Oil	117.9	113.8	96.3	95.7	76.2	72.7	82.6	82.7	77.8	78.4	4.1
Aviation Jet	40.8	43.0	46.0	49.8	49.9	30.9	30.1	38.7	40.7	43.8	2.3
LPG	41.7	48.8	53.7	56.9	63.9	72.4	76.8	80.1	87.5	95.8	5.1
CO₂ Emissions (Million tons CO₂)	11,756.1	11,672.7	11,663.5	11,711.4	11,346.6	10,327.7	10,869.5	10,816.3	10,330.2	10,212.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	217.6	212.1	206.4	202.4	192.7	182.6	181.2	174.8	163.9	159.2	-
Final energy intensity (toe/million \$15ppp)	60.5	59.9	58.8	58.6	57.0	55.3	54.6	53.1	51.2	50.4	-
Total energy intensity (toe/million \$15ppp)	98.6	97.0	95.3	94.2	91.8	89.3	88.2	84.4	81.6	80.6	-

*Heat is included

Primary energy demand mix



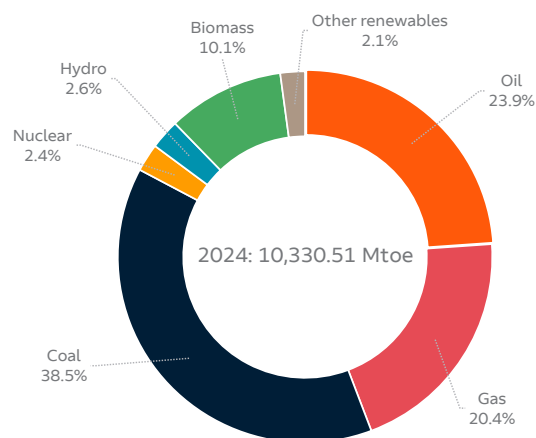
Electricity generation by source

Primary energy demand and CO₂ emissions growth

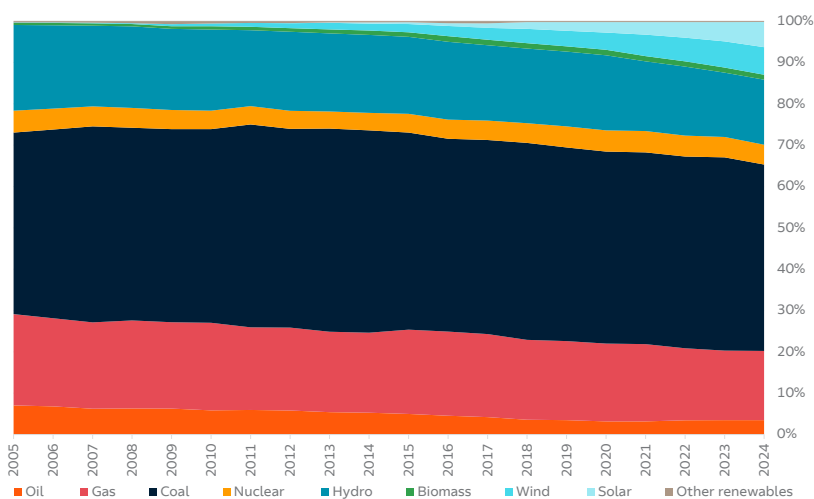
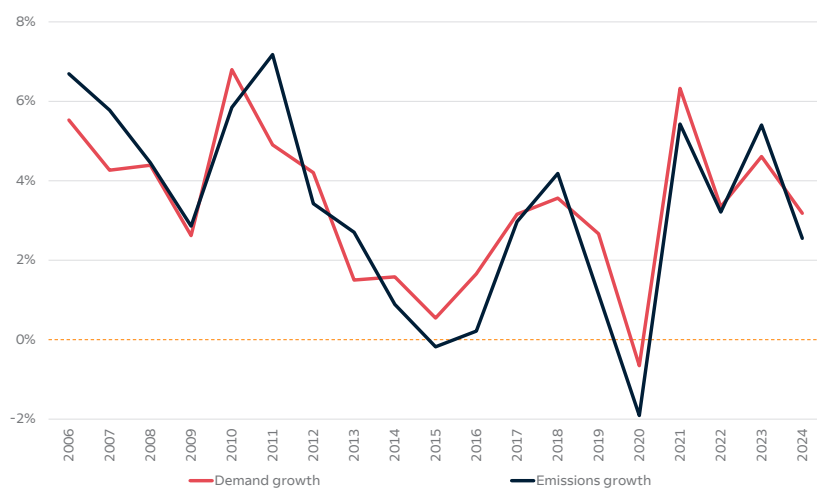
Non-OECD (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	7,863.0	7,993.3	8,245.7	8,539.7	8,767.4	8,710.1	9,260.9	9,570.7	10,012.0	10,330.5	100.0
Oil	2,089.2	2,141.2	2,204.4	2,196.0	2,257.4	2,162.7	2,281.4	2,346.1	2,431.4	2,450.7	23.7
Gas	1,558.0	1,613.8	1,686.9	1,791.0	1,799.5	1,812.2	1,968.4	1,937.2	1,998.8	2,088.6	20.2
Coal	2,894.6	2,860.0	2,930.1	3,072.5	3,173.7	3,170.5	3,381.2	3,607.9	3,835.3	3,955.1	38.3
Nuclear	156.5	167.7	177.8	189.9	209.3	212.9	231.1	236.0	242.4	248.4	2.4
Hydro	210.7	220.3	224.1	232.9	241.2	245.4	243.9	252.3	248.4	264.5	2.6
Biomass	878.3	901.0	916.9	938.8	952.4	957.0	974.6	987.0	1,014.0	1,035.3	10.0
Other renewables	28.1	37.5	49.7	67.5	80.2	92.4	122.0	146.6	178.1	217.8	2.1
Electricity balance of trade*	47.6	51.7	55.9	51.2	53.7	56.9	58.4	57.6	63.7	70.0	0.7
Total final consumption, by source	5,255.8	5,330.1	5,463.0	5,635.0	5,718.7	5,687.9	5,941.9	6,166.2	6,487.8	6,703.3	100.0
Oil	1,709.4	1,751.0	1,815.2	1,830.7	1,854.6	1,775.6	1,886.5	1,916.2	2,031.3	2,035.9	30.4
Gas	673.0	698.0	733.3	792.1	834.7	841.8	898.3	925.5	965.6	1,008.8	15.0
Coal	989.2	936.7	902.8	916.4	878.0	894.2	841.7	922.3	982.4	1,034.1	15.4
Electricity	919.3	956.7	1,012.7	1,066.5	1,108.4	1,119.5	1,205.3	1,261.6	1,325.6	1,399.2	20.9
Heat	236.7	246.8	252.5	266.9	268.2	276.6	313.0	334.1	357.1	387.4	5.8
Biomass	728.2	740.9	746.5	762.4	774.8	780.2	797.2	806.5	825.7	837.9	12.5
Electricity generation, by source	1,143.2	1,190.2	1,251.3	1,313.3	1,355.5	1,371.2	1,469.3	1,534.9	1,619.5	1,708.4	100.0
Oil	56.7	54.1	52.6	46.9	47.4	43.5	46.9	53.0	56.2	59.3	3.5
Gas	233.4	242.1	251.6	253.7	259.0	258.2	274.5	267.3	272.9	286.2	16.8
Coal	545.0	555.2	587.4	625.8	635.2	636.8	681.1	711.9	756.6	770.3	45.1
Nuclear	51.6	55.3	58.7	62.7	69.1	70.3	76.3	77.9	80.0	82.0	4.8
Hydro	213.0	224.1	228.2	236.9	245.2	249.3	247.8	256.2	252.1	268.7	15.7
Biomass	12.4	16.2	16.5	17.2	17.2	18.4	18.2	19.3	19.8	20.5	1.2
Wind	22.9	29.3	36.0	45.3	50.9	56.9	76.7	88.2	102.5	114.0	6.7
Solar	5.1	8.0	13.5	21.8	28.7	34.9	44.6	57.8	75.9	104.0	6.1
Other renewables	3.0	5.7	6.8	2.9	3.0	3.0	3.2	3.3	3.6	3.5	0.2
Total final consumption, by sector	5,255.8	5,330.1	5,463.0	5,635.0	5,718.7	5,687.9	5,941.9	6,166.2	6,487.8	6,703.3	100.0
Industry	1,997.5	1,969.9	2,002.8	2,077.7	2,084.7	2,104.3	2,164.9	2,309.2	2,448.5	2,566.9	38.3
Transport	1,065.4	1,086.4	1,129.5	1,147.8	1,177.8	1,088.9	1,170.0	1,191.9	1,263.6	1,280.5	19.1
Residential/Commercial	1,485.5	1,530.2	1,563.5	1,616.8	1,645.9	1,641.5	1,726.2	1,757.6	1,819.6	1,890.8	28.2
Oil final consumption, by sector	1,709.4	1,751.0	1,815.2	1,830.7	1,854.6	1,775.6	1,886.5	1,916.2	2,031.3	2,035.9	100.0
Industry	178.1	177.8	176.7	169.4	168.6	149.8	153.5	162.8	170.5	170.2	8.4
Transport	972.2	989.6	1,026.1	1,036.3	1,055.9	968.6	1,041.0	1,063.4	1,131.2	1,138.2	55.9
Residential/Commercial	172.5	171.4	178.7	180.4	177.2	175.3	177.5	173.7	184.2	187.5	9.2
Natural gas final consumption, by sector	673.0	698.0	733.3	792.1	834.7	841.8	898.3	925.5	965.6	1,008.8	100.0
Industry	287.5	290.8	304.7	328.8	347.8	354.4	388.8	422.0	445.8	465.7	46.2
Transport	40.5	43.1	46.1	48.0	52.2	52.0	56.6	55.3	56.1	60.4	6.0
Residential/Commercial	201.0	214.0	222.6	246.1	260.1	261.9	277.9	273.7	282.8	295.3	29.3
Refined products consumption	1,699.3	1,743.9	1,811.0	1,826.5	1,851.8	1,772.3	1,882.9	1,914.1	2,029.1	2,033.7	100.0
Gasoline	452.6	468.7	486.2	494.8	505.2	461.7	499.6	508.7	533.7	536.5	26.4
Diesel	620.8	616.4	624.2	627.5	631.2	587.8	620.7	647.1	679.7	675.2	33.2
Heating Oil	61.7	55.5	55.3	50.2	51.3	49.2	52.4	58.7	65.6	61.7	3.0
Aviation Jet	43.0	45.3	52.0	54.9	55.3	45.6	50.8	42.0	55.9	63.0	3.1
LPG	157.2	177.2	187.1	194.8	198.8	201.9	209.7	213.0	225.7	228.8	11.3
Imports	1,794.8	1,884.9	2,006.8	2,081.4	2,095.2	2,046.7	2,090.4	2,137.3	2,284.3	2,328.5	100.0
Oil	1,556.0	1,635.8	1,726.4	1,772.3	1,773.8	1,710.6	1,731.0	1,801.4	1,930.5	1,929.6	82.9
Gas	238.8	249.1	280.4	309.1	321.4	336.0	359.5	335.9	353.8	398.9	17.1
Gasoline	130.4	136.1	139.1	146.1	145.7	138.7	145.4	163.3	162.9	155.9	6.7
Diesel	176.4	186.1	189.4	191.4	187.3	167.0	182.5	184.3	190.5	180.9	7.8
Heating Oil	154.6	151.1	155.1	148.3	145.2	136.2	144.7	143.8	165.1	166.2	7.1
Aviation Jet	29.8	35.5	37.0	36.2	31.8	19.3	16.9	21.0	23.3	48.6	2.1
LPG	56.3	63.3	68.6	73.3	77.7	79.1	84.6	90.1	98.2	107.0	4.6
Exports	3,105.9	3,247.4	3,257.8	3,252.8	3,160.5	2,882.1	2,894.8	2,937.3	2,906.5	2,868.0	100.0
Oil	2,534.3	2,658.5	2,641.5	2,648.6	2,518.0	2,286.3	2,288.5	2,386.6	2,390.4	2,332.5	81.3
Gas	571.6	588.9	616.3	604.2	642.4	595.8	606.3	550.7	516.1	535.5	18.7
Gasoline	89.8	97.3	94.0	100.8	94.7	96.1	96.4	105.6	107.3	111.0	3.9
Diesel	174.7	200.1	198.1	221.1	209.4	194.9	205.4	189.2	191.7	187.8	6.5
Heating Oil	181.8	176.4	183.2	180.8	158.6	144.0	150.7	150.6	157.8	155.9	5.4
Aviation Jet	52.0	53.7	54.4	57.8	53.6	43.9	41.8	41.9	48.0	55.3	1.9
LPG	72.5	64.0	63.9	67.1	62.7	56.6	56.7	64.2	66.0	65.6	2.3
CO₂ Emissions (Million tons CO₂)	19,756.8	19,799.6	20,387.5	21,240.2	21,482.5	21,072.6	22,216.5	22,930.2	24,169.2	24,785.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	340.3	326.5	320.8	319.2	311.1	311.0	307.1	305.6	308.2	302.7	-
Final energy intensity (toe/million \$15ppp)	81.6	78.9	77.0	75.8	74.0	74.3	72.8	72.8	73.3	72.7	-
Total energy intensity (toe/million \$15ppp)	135.4	131.8	129.8	128.3	127.0	128.5	128.0	127.6	127.7	126.2	-

*Heat is included

Primary energy demand mix



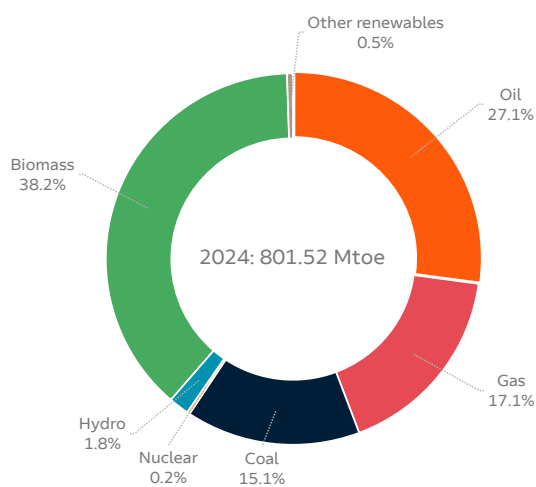
Electricity generation by source

Primary energy demand and CO₂ emissions growth

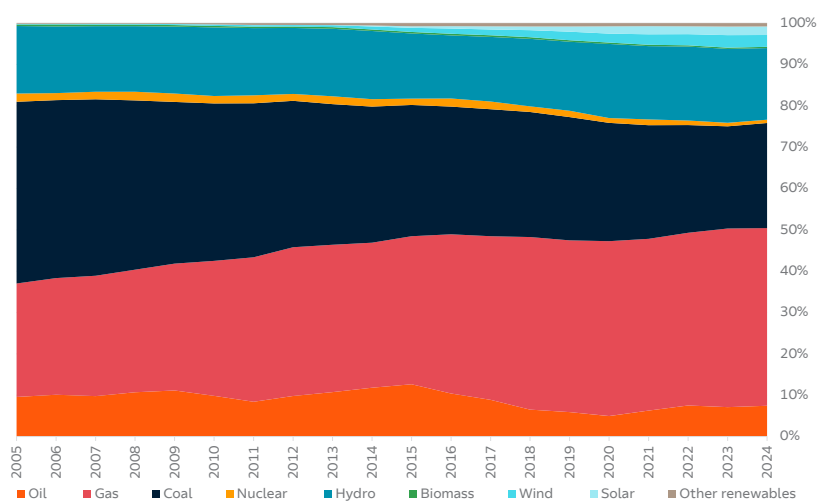
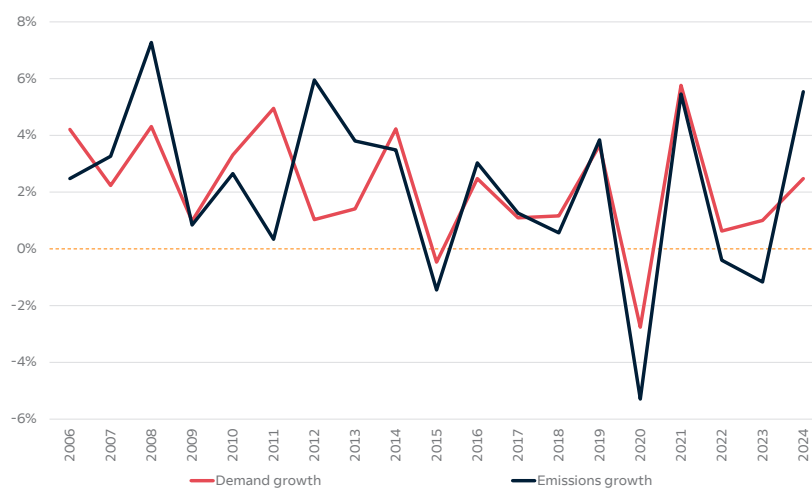
Africa (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	688.8	705.8	713.6	721.9	748.2	727.6	769.5	774.4	782.1	801.5	100.0
Oil	178.0	183.5	183.1	177.8	186.6	177.9	201.1	205.8	203.1	216.0	27.0
Gas	114.6	122.0	131.4	132.1	138.7	129.4	140.5	135.1	136.3	136.4	17.0
Coal	114.2	113.2	111.7	118.8	124.7	114.4	115.0	113.4	117.1	120.0	15.0
Nuclear	3.2	4.1	4.1	3.0	3.5	2.6	3.2	2.6	2.0	2.0	0.2
Hydro	10.4	10.3	10.7	11.6	11.9	12.7	13.0	13.6	13.7	13.9	1.7
Biomass	262.8	266.9	265.9	271.2	275.2	282.5	288.0	294.6	300.0	304.0	37.9
Other renewables	1.0	1.4	1.7	2.2	3.0	3.4	4.0	4.0	4.0	4.1	0.5
Electricity balance of trade*	4.7	4.4	4.8	5.1	4.7	4.7	4.6	5.4	5.9	5.1	0.6
Total final consumption, by source	477.7	483.2	486.0	509.0	511.2	501.0	527.7	543.6	550.2	555.5	100.0
Oil	156.7	160.4	162.0	165.1	167.5	155.9	170.4	176.3	178.9	178.5	32.1
Gas	37.0	37.9	39.9	45.3	43.3	41.5	45.2	47.9	46.9	47.8	8.6
Coal	17.4	13.6	15.2	22.5	19.4	17.5	19.0	18.5	18.6	18.9	3.4
Electricity	53.3	55.9	56.2	59.2	58.9	58.4	59.9	62.4	63.4	65.9	11.9
Heat	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.0
Biomass	213.1	215.3	212.5	216.8	221.9	227.5	232.9	238.1	242.1	244.2	44.0
Electricity generation, by source	67.8	69.6	71.3	73.5	74.2	73.2	76.1	78.2	78.8	82.8	100.0
Oil	8.6	7.3	6.3	4.8	4.4	3.6	4.8	5.9	5.6	6.2	7.4
Gas	24.3	26.8	28.2	30.7	30.8	31.0	31.6	32.7	34.1	35.6	43.0
Coal	21.5	21.5	21.9	22.2	22.1	21.0	20.9	20.4	19.5	21.0	25.4
Nuclear	1.1	1.4	1.4	1.0	1.1	0.9	1.1	0.8	0.7	0.7	0.8
Hydro	10.7	10.6	11.1	12.0	12.4	13.1	13.5	14.0	14.1	14.4	17.3
Biomass	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3
Wind	0.7	0.9	1.0	1.2	1.5	1.6	1.9	2.1	2.4	2.4	2.9
Solar	0.3	0.4	0.5	0.7	0.9	1.3	1.5	1.5	1.6	1.7	2.1
Other renewables	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8
Total final consumption, by sector	477.7	483.2	486.0	509.0	511.2	501.0	527.7	543.6	550.2	555.5	100.0
Industry	84.5	83.2	84.2	91.9	89.7	86.6	92.0	95.8	96.7	99.9	18.0
Transport	110.0	116.3	116.5	119.0	120.8	111.3	122.7	125.2	127.0	125.2	22.5
Residential/Commercial	252.5	255.4	253.9	262.6	266.5	270.9	278.5	285.7	289.5	295.2	53.1
Oil final consumption, by sector	156.7	160.4	162.0	165.1	167.5	155.9	170.4	176.3	178.9	178.5	100.0
Industry	16.8	16.5	15.7	16.0	14.8	14.3	16.7	17.1	17.4	18.1	10.2
Transport	109.2	115.5	115.6	118.2	119.9	110.4	121.6	123.8	125.7	123.9	69.4
Residential/Commercial	17.6	16.5	16.3	16.4	17.3	17.0	16.9	16.7	17.1	18.0	10.1
Natural gas final consumption, by sector	37.0	37.9	39.9	45.3	43.3	41.5	45.2	47.9	46.9	47.8	100.0
Industry	17.3	18.8	19.5	20.0	19.4	18.5	20.7	23.8	23.6	24.3	50.9
Transport	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.9	0.8	0.8	1.6
Residential/Commercial	8.9	9.2	9.9	11.4	12.3	12.1	12.4	13.0	12.3	12.1	25.3
Refined products consumption	156.7	160.4	162.0	165.1	167.5	155.9	170.4	176.3	178.9	178.5	100.0
Gasoline	51.2	54.8	54.4	55.9	56.4	53.3	57.8	58.6	57.7	55.2	30.9
Diesel	71.1	74.0	73.7	75.2	77.0	70.3	77.6	78.1	79.6	80.3	45.0
Heating Oil	6.0	5.7	5.5	5.3	4.7	3.9	5.4	6.0	6.3	6.8	3.8
Aviation Jet	2.0	2.0	2.0	2.0	1.7	1.1	1.6	1.9	2.3	2.4	1.4
LPG	13.0	13.4	13.6	14.0	14.7	15.2	15.1	15.0	15.5	15.5	8.7
Imports	165.1	168.2	165.3	160.8	163.5	157.9	163.9	171.7	173.7	177.5	100.0
Oil	152.1	153.6	151.6	147.7	155.0	148.1	152.8	160.6	160.4	155.2	87.5
Gas	13.0	14.6	13.7	13.1	8.4	9.7	11.2	11.1	13.3	22.2	12.5
Gasoline	34.5	37.3	36.8	31.9	39.6	39.7	43.7	46.3	44.1	38.5	21.7
Diesel	52.2	51.0	51.8	51.6	52.1	48.2	54.3	56.8	60.1	58.7	33.1
Heating Oil	9.5	7.6	7.1	5.8	5.8	5.6	5.9	8.0	6.9	17.6	9.9
Aviation Jet	4.4	5.3	6.0	6.3	6.1	3.8	4.5	6.0	6.0	5.4	3.0
LPG	7.3	7.7	8.2	8.7	8.9	9.3	9.2	8.9	8.8	10.6	6.0
Exports	435.0	411.2	441.8	445.5	449.7	366.1	389.7	358.4	366.3	338.2	100.0
Oil	362.9	333.0	356.0	362.9	370.0	292.4	302.7	278.3	289.3	266.1	78.7
Gas	72.1	78.2	85.8	82.6	79.8	73.6	87.0	80.1	77.0	72.1	21.3
Gasoline	4.2	2.5	2.5	2.0	1.7	1.5	1.2	1.3	1.8	1.7	0.5
Diesel	2.7	3.4	3.3	3.3	3.2	2.0	1.4	1.9	1.8	5.5	1.6
Heating Oil	9.8	9.3	9.5	11.9	11.9	13.3	9.8	7.8	7.7	7.2	2.1
Aviation Jet	4.5	3.2	3.3	3.7	3.4	3.0	1.9	2.1	1.9	6.0	1.8
LPG	9.4	9.4	10.6	10.4	9.7	9.1	8.9	9.2	9.7	7.9	2.3
CO₂ Emissions (Million tons CO₂)	1,182.1	1,217.9	1,233.3	1,240.2	1,287.9	1,219.7	1,286.3	1,281.1	1,266.1	1,336.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	198.7	200.2	195.8	190.5	192.5	186.2	187.7	179.9	172.4	176.8	-
Final energy intensity (toe/million \$15ppp)	77.3	76.9	74.2	74.8	73.4	73.6	74.0	73.2	71.8	70.5	-
Total energy intensity (toe/million \$15ppp)	115.8	116.0	113.3	110.9	111.8	111.1	112.3	108.7	106.5	106.1	-

*Heat is included

Primary energy demand mix

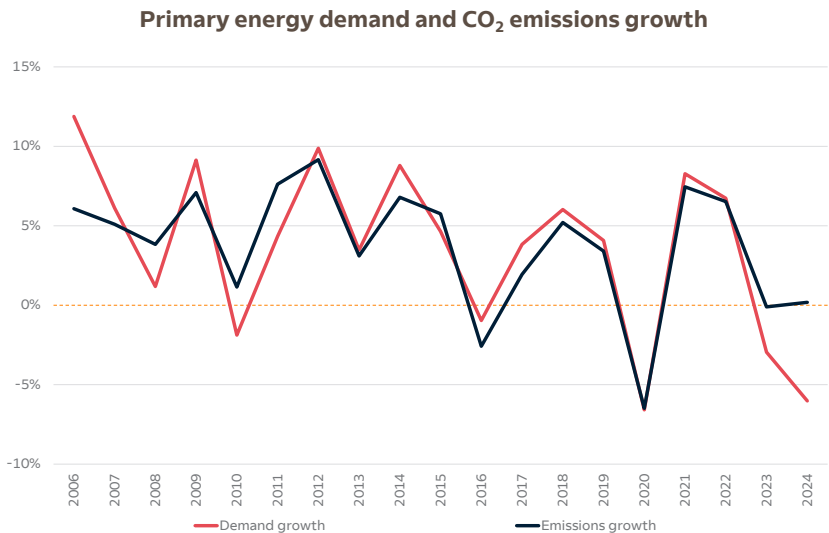
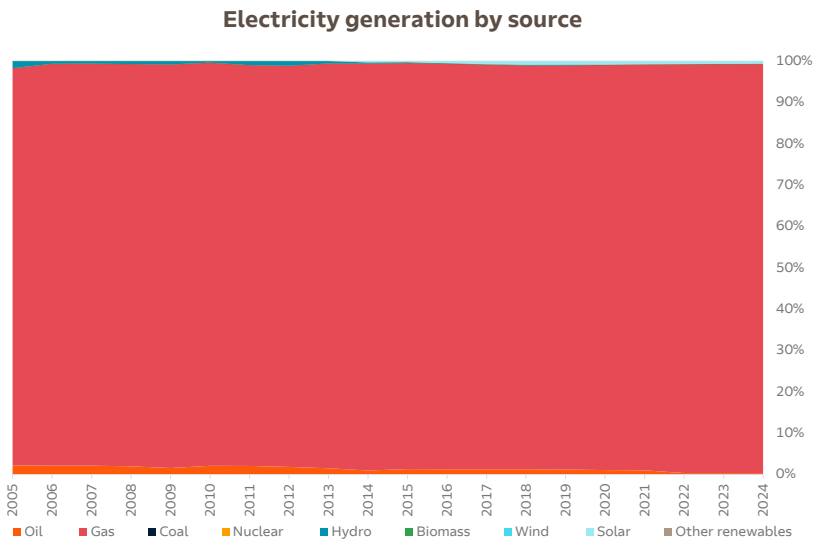
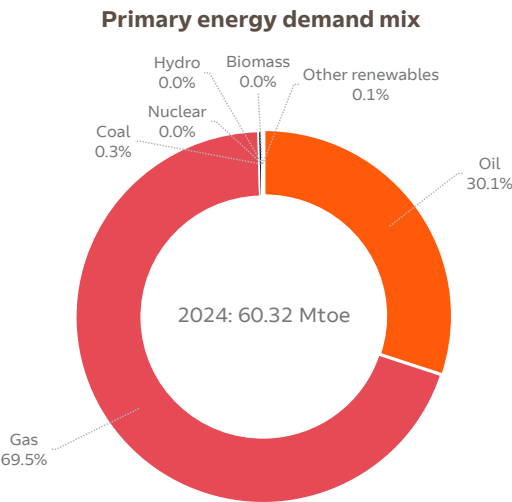


Electricity generation by source

Primary energy demand and CO₂ emissions growth

Algeria (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	54.0	53.5	55.5	58.9	61.3	57.2	62.0	66.1	64.2	60.3	100.0
Oil	19.4	19.1	19.3	19.5	20.6	19.0	19.6	21.8	18.9	18.2	30.2
Gas	34.4	34.4	36.0	38.8	40.2	38.0	42.1	44.3	45.3	42.1	69.8
Coal	0.1	0.0	0.2	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electricity balance of trade*	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.2	-0.2	-0.2	-0.3
Total final consumption, by source	36.5	36.6	37.0	41.0	42.3	38.9	41.0	44.2	45.0	44.4	100.0
Oil	18.0	17.6	17.3	17.7	18.2	15.9	16.1	17.5	18.4	17.7	39.9
Gas	14.1	14.6	14.8	18.2	18.6	18.0	19.3	20.9	20.5	20.2	45.4
Coal	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2
Electricity	4.3	4.5	4.8	5.0	5.3	5.1	5.5	5.8	6.1	6.5	14.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	5.9	6.1	6.5	6.6	7.0	6.8	7.3	7.8	8.2	8.7	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4
Gas	5.8	6.0	6.4	6.4	6.9	6.7	7.2	7.8	8.1	8.6	99.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	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	36.5	36.6	37.0	41.0	42.3	38.9	41.0	44.2	45.0	44.4	100.0
Industry	5.8	5.9	6.4	6.8	7.3	7.3	8.2	8.4	9.0	9.1	20.4
Transport	14.7	14.3	14.1	14.4	14.6	13.0	13.8	14.6	15.1	14.8	33.2
Residential/Commercial	11.4	11.6	12.4	14.4	15.4	14.2	14.6	15.9	15.3	15.2	34.3
Oil final consumption, by sector	18.0	17.6	17.3	17.7	18.2	15.9	16.1	17.5	18.4	17.7	100.0
Industry	0.8	0.8	0.7	0.6	0.5	0.6	0.6	0.6	0.6	0.6	3.6
Transport	14.7	14.3	14.0	14.3	14.5	12.8	13.6	14.2	14.9	14.5	81.9
Residential/Commercial	1.9	1.9	2.0	2.2	2.7	1.8	1.8	1.8	1.8	1.7	9.4
Natural gas final consumption, by sector	14.1	14.6	14.8	18.2	18.6	18.0	19.3	20.9	20.5	20.2	100.0
Industry	3.4	3.5	3.9	4.3	4.8	4.9	5.6	5.8	6.2	6.1	30.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.3
Residential/Commercial	7.0	7.1	7.6	9.2	9.5	9.4	9.5	10.6	9.9	9.8	48.5
Refined products consumption	18.0	17.6	17.3	17.7	18.2	15.9	16.1	17.5	18.4	17.7	100.0
Gasoline	4.7	4.5	4.4	4.1	4.1	3.5	3.6	3.5	3.5	3.4	19.2
Diesel	10.4	10.1	10.0	10.3	10.6	9.0	9.4	9.9	10.2	10.0	56.3
Heating Oil	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.7
Aviation Jet	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	1.2
LPG	2.1	2.1	2.2	2.4	2.6	2.7	2.9	3.2	3.4	3.2	17.8
Imports	4.3	3.9	3.8	1.0	2.1	1.1	0.1	0.6	0.7	0.8	100.0
Oil	4.3	3.9	3.8	1.0	2.1	1.1	0.1	0.6	0.7	0.8	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.7	1.7	1.6	0.1	0.6	0.4	0.0	0.0	0.0	0.0	0.0
Diesel	1.8	1.5	1.4	0.3	0.9	0.3	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	92.0	100.9	98.6	91.8	84.1	74.7	87.3	85.0	88.1	81.7	100.0
Oil	55.0	55.6	53.3	48.7	48.2	41.6	41.2	43.2	43.6	39.5	48.4
Gas	37.0	45.3	45.3	43.1	35.9	33.1	46.1	41.8	44.5	42.2	51.6
Gasoline	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.1	0.1
Diesel	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Heating Oil	6.4	6.7	6.1	5.6	5.5	5.6	5.2	5.3	5.1	4.6	5.7
Aviation Jet	1.1	1.2	1.2	1.0	0.7	0.7	0.5	0.3	0.1	0.0	0.0
LPG	8.3	8.0	7.6	7.3	6.9	6.1	6.5	6.7	7.1	5.8	7.1
CO₂ Emissions (Million tons CO₂)	129.3	126.0	128.4	135.1	139.7	130.7	140.4	149.6	149.4	149.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	234.0	219.4	220.4	228.7	234.4	230.7	238.8	245.6	235.6	228.0	-
Final energy intensity (toe/million \$15ppp)	59.3	57.0	58.2	61.8	64.2	62.5	63.9	65.8	64.2	61.4	-
Total energy intensity (toe/million \$15ppp)	97.7	93.1	95.3	99.6	102.7	101.0	105.4	108.6	101.2	91.9	-

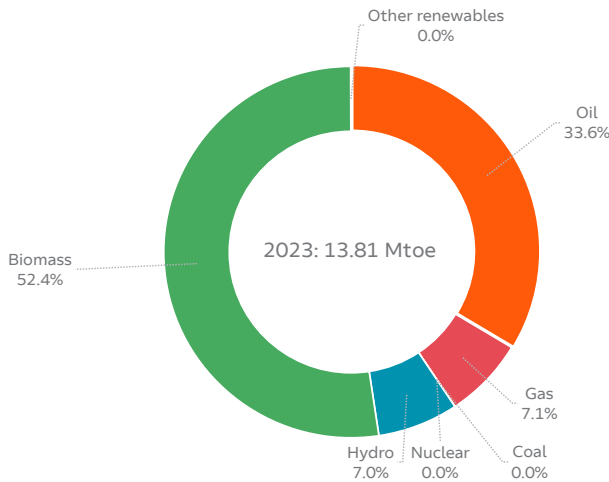
*Heat is included



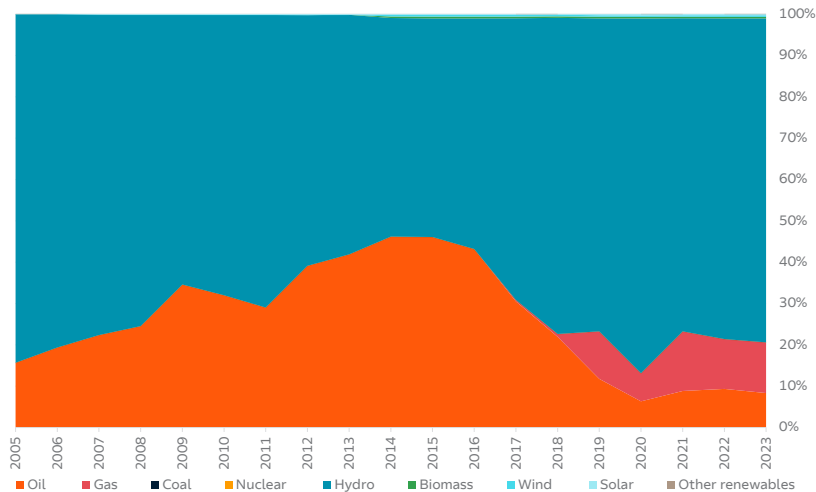
Angola (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2023 (%)
Total primary energy demand, by source	13.1	12.5	12.7	13.5	13.7	12.2	13.2	13.2	13.8	n.d.	100.0
Oil	5.6	4.9	4.8	5.3	4.9	3.2	4.1	4.1	4.6	n.d.	33.6
Gas	0.6	0.7	0.7	0.7	1.1	1.1	1.1	1.0	1.0	n.d.	7.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	0.4	0.5	0.7	0.9	0.9	1.1	1.0	1.0	1.0	n.d.	7.0
Biomass	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	n.d.	52.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity balance of trade*	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Total final consumption, by source	10.5	9.9	9.8	10.2	10.4	9.8	10.7	10.9	11.7	n.d.	100.0
Oil	4.4	3.7	3.7	3.9	4.0	3.2	4.1	4.4	5.1	n.d.	43.8
Gas	0.6	0.6	0.3	0.3	0.4	0.4	0.4	0.2	0.2	n.d.	1.8
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity	0.7	0.8	0.8	1.0	1.0	1.1	1.1	1.1	1.0	n.d.	9.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	4.7	4.8	4.9	5.0	5.0	5.1	5.1	5.2	5.3	n.d.	45.4
Electricity generation, by source	0.8	0.9	1.0	1.2	1.2	1.2	1.3	1.2	1.2	n.d.	100.0
Oil	0.4	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	n.d.	8.4
Gas	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	n.d.	12.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	0.4	0.5	0.7	0.9	0.9	1.1	1.0	1.0	1.0	n.d.	78.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.4
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.3
Other renewables	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	n.d.	-0.0
Total final consumption, by sector	10.5	9.9	9.8	10.2	10.4	9.8	10.7	10.9	11.7	n.d.	100.0
Industry	1.2	1.3	0.9	1.0	1.0	1.3	1.2	1.2	1.0	n.d.	9.0
Transport	2.5	1.9	2.3	2.6	2.5	1.6	2.5	2.6	3.3	n.d.	28.7
Residential/Commercial	6.6	6.6	6.4	6.5	6.7	6.8	6.9	7.1	7.2	n.d.	61.7
Oil final consumption, by sector	4.4	3.7	3.7	3.9	4.0	3.2	4.1	4.4	5.1	n.d.	100.0
Industry	0.2	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.3	n.d.	6.8
Transport	2.5	1.9	2.3	2.6	2.5	1.6	2.5	2.6	3.3	n.d.	65.4
Residential/Commercial	1.5	1.4	1.1	1.0	1.1	1.2	1.2	1.3	1.3	n.d.	26.3
Natural gas final consumption, by sector	0.6	0.6	0.3	0.3	0.4	0.4	0.4	0.2	0.2	n.d.	100.0
Industry	0.6	0.6	0.3	0.3	0.4	0.4	0.4	0.2	0.2	n.d.	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Refined products consumption	4.4	3.7	3.7	3.9	4.0	3.2	4.1	4.4	5.1	n.d.	100.0
Gasoline	1.1	1.1	1.0	1.3	1.2	0.8	1.1	1.2	2.0	n.d.	38.2
Diesel	2.7	2.0	2.1	2.0	2.2	1.5	2.1	2.1	2.0	n.d.	38.4
Heating Oil	0.0	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.2	n.d.	4.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	n.d.	3.5
LPG	0.3	0.3	0.4	0.4	0.3	0.5	0.5	0.6	0.7	n.d.	12.9
Imports	4.8	3.6	3.6	4.6	4.0	2.0	3.0	4.5	4.5	n.d.	100.0
Oil	4.8	3.6	3.6	4.6	4.0	2.0	3.0	4.5	4.5	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	1.3	1.1	1.0	1.9	1.1	0.8	1.2	1.8	2.2	n.d.	48.6
Diesel	3.1	2.4	2.1	2.2	2.1	1.2	1.7	2.7	2.3	n.d.	51.4
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Aviation Jet	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.2	0.1	0.4	0.4	0.5	0.0	0.0	0.0	0.0	n.d.	0.0
Exports	88.4	84.8	85.4	78.3	73.0	69.3	60.3	60.9	59.7	n.d.	100.0
Oil	88.4	84.1	81.4	73.9	68.5	64.2	56.4	57.4	55.9	n.d.	93.6
Gas	0.0	0.7	4.1	4.4	4.5	5.1	3.9	3.4	3.8	n.d.	6.4
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	0.4	0.2	n.d.	0.3
Heating Oil	0.6	0.5	0.6	0.4	0.4	0.5	0.4	0.6	0.5	n.d.	0.9
Aviation Jet	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.4	0.4	2.1	2.3	2.1	2.2	1.8	1.9	1.9	n.d.	3.1
CO₂ Emissions (Million tons CO₂)	17.9	15.8	14.8	15.3	15.8	13.0	16.0	16.9	18.6	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	89.1	80.9	75.8	79.3	82.8	71.9	87.5	89.6	97.7	n.d.	-
Final energy intensity (toe/million \$15ppp)	51.4	50.2	49.7	52.5	53.7	54.0	58.0	57.8	61.1	n.d.	-
Total energy intensity (toe/million \$15ppp)	65.2	64.0	65.2	70.4	71.6	67.9	72.2	70.1	72.7	n.d.	-

*Heat is included

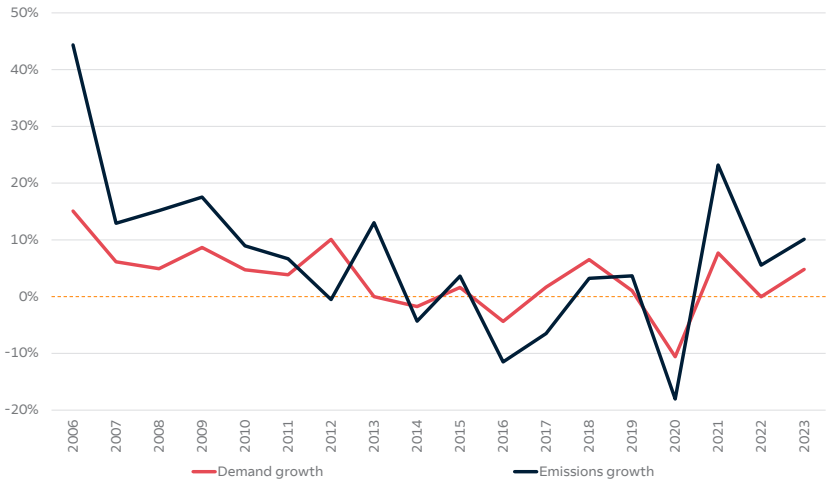
Primary energy demand mix



Electricity generation by source



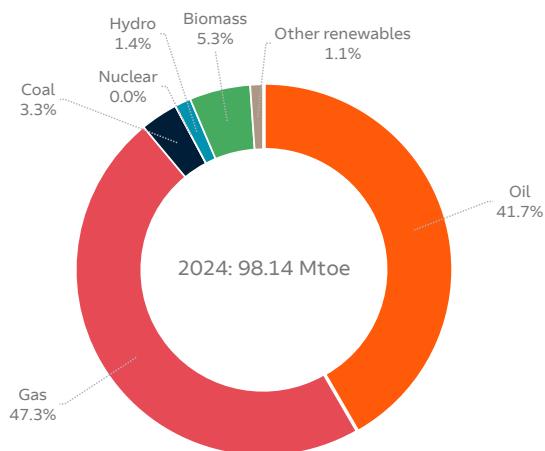
Primary energy demand and CO₂ emissions growth



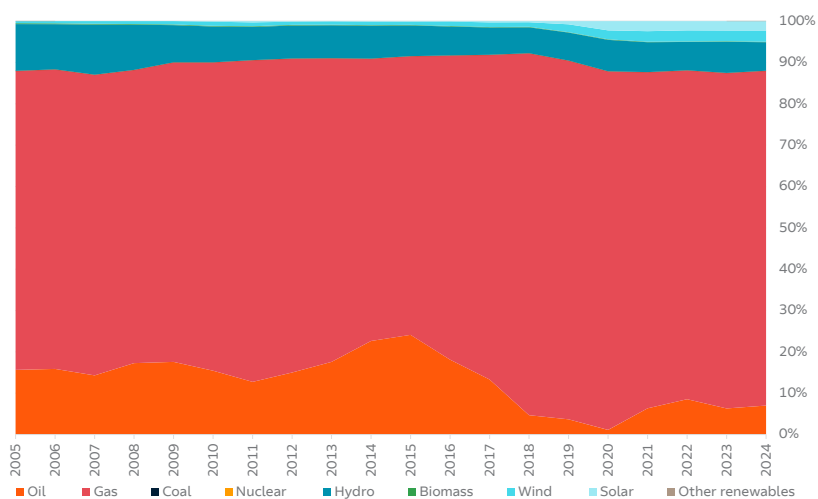
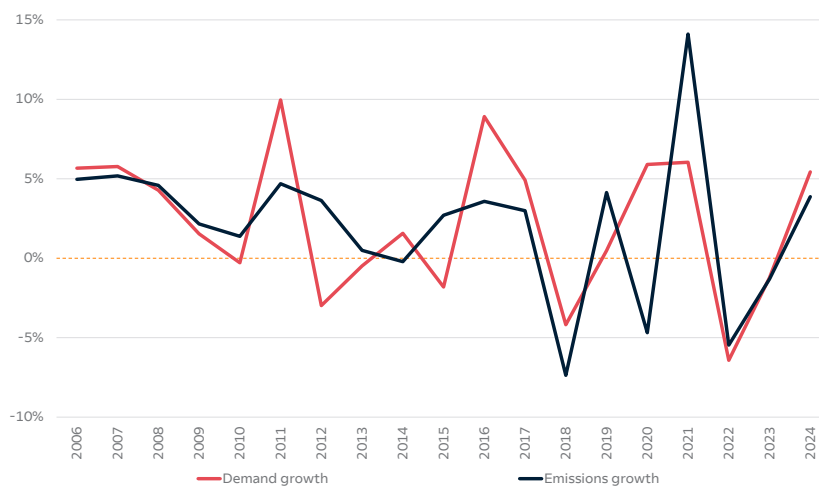
Egypt (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	81.5	88.8	93.1	89.2	89.7	95.0	100.7	94.2	93.1	98.1	100.0
Oil	38.7	41.1	38.1	34.8	28.0	35.5	37.7	39.5	37.2	40.9	41.7
Gas	36.8	41.4	47.4	44.9	52.7	51.0	53.7	45.5	45.9	46.4	47.3
Coal	0.4	0.5	1.8	3.7	2.9	1.5	2.5	2.2	2.5	3.2	3.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.2	1.1	1.1	1.1	1.3	1.3	1.3	1.4	1.4	1.4
Biomass	4.5	4.5	4.5	4.6	4.6	5.0	4.7	5.0	5.1	5.2	5.3
Other renewables	0.1	0.2	0.2	0.2	0.4	0.8	1.0	1.0	1.0	1.1	1.1
Electricity balance of trade*	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0
Total final consumption, by source	54.9	58.1	59.8	64.8	59.0	58.2	62.9	65.6	67.0	69.8	100.0
Oil	29.1	30.1	28.8	28.8	26.2	27.1	30.4	30.2	30.6	32.0	45.8
Gas	10.0	11.6	14.0	16.1	14.3	13.5	14.3	15.8	16.0	15.9	22.8
Coal	0.2	0.2	1.6	3.3	2.7	1.4	2.3	2.0	2.2	2.9	4.1
Electricity	13.3	14.0	13.0	14.2	13.4	13.5	13.6	14.8	15.4	16.2	23.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	2.3	2.3	2.3	2.4	2.4	2.7	2.4	2.8	2.8	2.9	4.1
Electricity generation, by source	15.5	16.5	16.8	17.4	16.7	17.0	17.6	18.4	18.7	19.8	100.0
Oil	3.7	3.0	2.2	0.8	0.6	0.2	1.1	1.6	1.2	1.4	7.0
Gas	10.5	12.1	13.2	15.3	14.5	14.7	14.3	14.6	15.1	16.0	81.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.2	1.1	1.1	1.1	1.3	1.3	1.3	1.4	1.4	6.9
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.5	2.7
Solar	0.0	0.0	0.0	0.0	0.1	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	54.9	58.1	59.8	64.8	59.0	58.2	62.9	65.6	67.0	69.8	100.0
Industry	13.2	14.9	16.8	19.0	16.9	15.1	17.8	21.8	22.2	23.5	33.7
Transport	17.7	18.5	18.0	18.0	16.7	17.3	19.2	18.5	18.8	19.4	27.7
Residential/Commercial	17.0	17.8	16.9	17.5	16.6	17.0	16.4	16.5	17.1	17.8	25.5
Oil final consumption, by sector	29.1	30.1	28.8	28.8	26.2	27.1	30.4	30.2	30.6	32.0	100.0
Industry	4.7	4.8	4.2	4.3	3.1	3.5	5.1	5.7	5.7	6.2	19.5
Transport	17.4	18.2	17.6	17.7	16.3	16.8	18.6	17.7	18.0	18.6	58.1
Residential/Commercial	4.7	4.7	4.5	4.3	4.0	4.0	3.4	3.0	3.1	3.1	9.8
Natural gas final consumption, by sector	10.0	11.6	14.0	16.1	14.3	13.5	14.3	15.8	16.0	15.9	100.0
Industry	4.3	5.7	6.6	6.8	6.3	5.5	5.8	9.0	9.1	9.0	56.8
Transport	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.7	0.7	0.7	4.5
Residential/Commercial	1.5	1.7	2.0	1.8	2.3	2.2	2.4	1.9	1.9	1.9	11.8
Refined products consumption	29.1	30.1	28.8	28.8	26.2	27.1	30.4	30.2	30.6	32.0	100.0
Gasoline	7.2	7.6	7.5	7.6	7.0	7.6	7.9	7.3	7.5	7.6	23.8
Diesel	12.7	13.4	12.9	12.9	11.7	12.6	14.2	13.8	13.6	14.0	43.7
Heating Oil	2.3	2.3	1.8	1.9	1.0	0.4	1.9	2.7	2.7	3.2	10.1
Aviation Jet	0.6	0.6	0.5	0.6	0.5	0.4	0.7	0.6	0.8	0.9	2.9
LPG	4.7	4.7	4.5	4.3	4.0	4.0	3.4	3.0	3.1	3.1	9.8
Imports	25.0	29.8	25.4	23.1	12.8	21.9	22.5	20.3	19.5	27.5	100.0
Oil	19.3	22.0	18.9	18.4	12.8	20.1	19.2	16.6	14.3	16.9	61.2
Gas	5.7	7.8	6.4	4.7	0.0	1.8	3.4	3.8	5.2	10.7	38.8
Gasoline	2.7	3.1	2.9	2.8	1.5	2.1	1.8	1.6	1.8	1.7	6.3
Diesel	7.0	7.7	6.7	6.7	3.4	3.4	5.1	4.7	6.1	7.8	28.3
Heating Oil	3.6	2.2	0.5	0.0	0.0	0.0	0.0	0.7	0.6	3.2	11.6
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.6	2.7	2.6	2.4	2.2	2.6	2.4	1.9	1.8	2.3	8.5
Exports	15.5	14.5	17.4	18.5	23.1	19.4	20.4	16.1	11.1	6.1	100.0
Oil	15.3	13.4	15.4	17.6	19.0	17.7	12.7	8.0	7.8	5.1	84.6
Gas	0.2	1.1	1.9	0.9	4.1	1.7	7.7	8.1	3.3	0.9	15.4
Gasoline	0.2	0.2	0.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.1	0.7	0.6	0.5	0.1	0.0	0.0	0.0	0.4	6.9
Heating Oil	0.2	0.1	0.2	3.3	4.4	5.4	2.3	0.0	0.0	0.1	1.5
Aviation Jet	1.0	0.9	1.0	1.3	1.5	1.2	0.7	0.6	0.4	0.9	15.2
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	195.3	202.3	208.4	193.0	201.0	191.6	218.6	206.7	204.0	211.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	179.9	178.5	176.5	155.2	153.1	141.0	155.7	138.1	131.4	133.3	-
Final energy intensity (toe/million \$15ppp)	45.5	46.6	45.0	45.0	39.4	37.4	39.2	39.1	38.5	39.3	-
Total energy intensity (toe/million \$15ppp)	75.1	78.3	78.9	71.8	68.3	69.9	71.7	63.0	60.0	61.7	-

*Heat is included

Primary energy demand mix



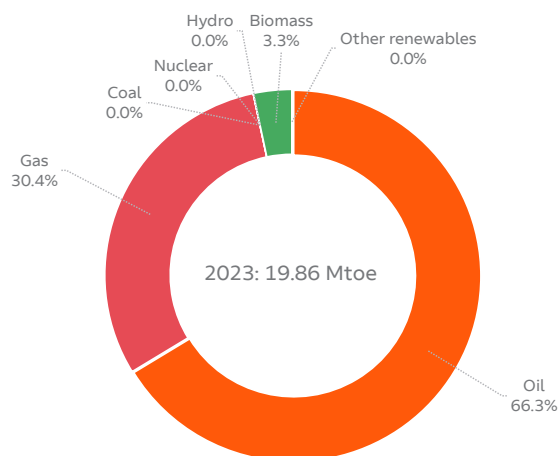
Electricity generation by source

Primary energy demand and CO₂ emissions growth

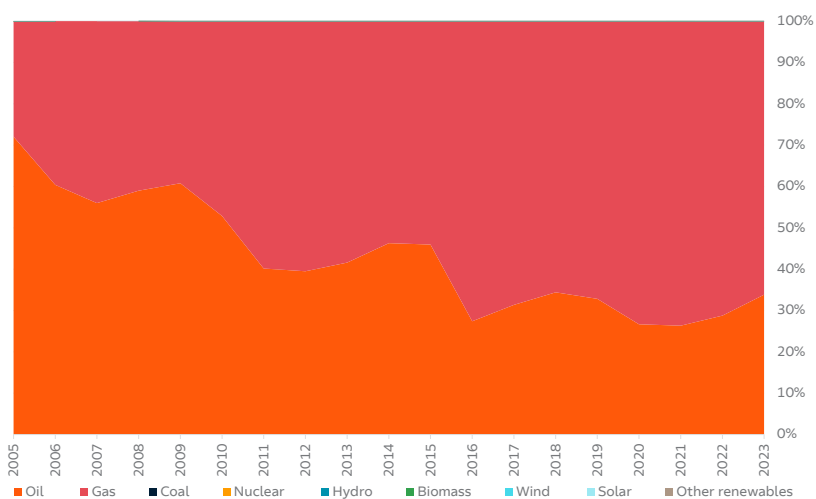
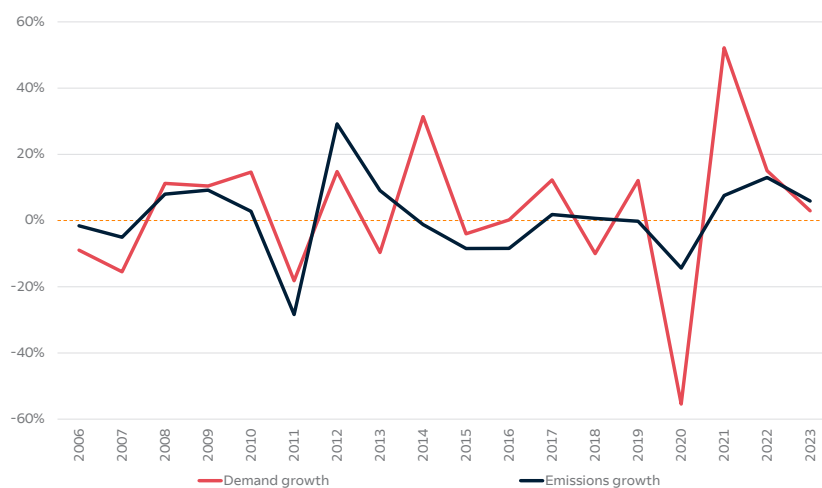
Libya (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2023 (%)
Total primary energy demand, by source	21.8	21.8	24.5	22.1	24.7	11.0	16.8	19.3	19.9	n.d.	100.0
Oil	10.8	8.7	8.9	8.8	14.9	7.4	10.3	12.3	13.1	n.d.	66.1
Gas	10.4	12.5	15.0	12.6	9.2	2.8	5.7	6.3	6.0	n.d.	30.3
Coal	0.0	0.0	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	0.7	0.7	0.7	n.d.	3.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity balance of trade*	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	n.d.	0.3
Total final consumption, by source	9.8	9.5	9.1	9.1	9.0	8.3	8.8	9.8	10.5	n.d.	100.0
Oil	5.9	7.0	6.7	6.5	6.5	6.3	6.4	7.2	7.8	n.d.	74.3
Gas	2.4	1.1	1.0	0.8	0.7	0.2	0.6	0.6	0.6	n.d.	5.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Electricity	1.3	1.2	1.2	1.5	1.5	1.5	1.6	1.8	1.8	n.d.	17.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	n.d.	2.7
Electricity generation, by source	3.2	2.7	2.9	2.9	3.0	2.5	2.7	3.0	3.1	n.d.	100.0
Oil	1.5	0.7	0.9	1.0	1.0	0.7	0.7	0.9	1.1	n.d.	33.8
Gas	1.7	2.0	2.0	1.9	2.0	1.9	2.0	2.2	2.1	n.d.	66.1
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	9.8	9.5	9.1	9.1	9.0	8.3	8.8	9.8	10.5	n.d.	100.0
Industry	1.5	1.2	1.1	1.1	0.9	0.5	0.8	0.8	0.8	n.d.	8.0
Transport	5.0	6.1	5.7	5.6	5.7	5.6	5.6	6.4	6.9	n.d.	66.2
Residential/Commercial	1.7	1.7	1.7	2.0	2.0	2.0	2.0	2.2	2.3	n.d.	21.8
Oil final consumption, by sector	5.9	7.0	6.7	6.5	6.5	6.3	6.4	7.2	7.8	n.d.	100.0
Industry	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.4	n.d.	4.9
Transport	5.0	6.1	5.7	5.6	5.7	5.6	5.6	6.4	6.9	n.d.	89.0
Residential/Commercial	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	n.d.	5.3
Natural gas final consumption, by sector	2.4	1.1	1.0	0.8	0.7	0.2	0.6	0.6	0.6	n.d.	100.0
Industry	1.0	0.6	0.6	0.5	0.4	0.1	0.3	0.4	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	5.9	7.0	6.7	6.5	6.5	6.3	6.4	7.2	7.8	n.d.	100.0
Gasoline	3.9	4.2	4.2	4.2	4.2	4.6	4.7	5.1	5.3	n.d.	67.9
Diesel	1.1	1.9	1.6	1.4	1.5	0.9	1.0	1.3	1.6	n.d.	21.0
Heating Oil	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.4	n.d.	4.9
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.	4.3
Imports	6.8	6.1	5.9	5.7	6.6	6.1	6.0	6.8	7.6	n.d.	100.0
Oil	6.8	6.1	5.9	5.7	6.6	6.1	6.0	6.8	7.6	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	3.4	3.7	3.7	3.7	4.0	4.5	4.4	4.8	5.0	n.d.	66.0
Diesel	3.3	2.2	2.1	1.8	2.4	1.5	1.3	1.9	2.5	n.d.	32.7
Heating Oil	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	n.d.	0.0
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	23.4	21.7	46.3	57.8	60.7	23.1	61.2	51.8	58.4	n.d.	100.0
Oil	17.6	17.8	42.6	54.1	56.0	19.5	58.6	49.7	56.4	n.d.	96.5
Gas	5.8	3.9	3.8	3.7	4.7	3.7	2.6	2.1	2.1	n.d.	3.5
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	0.3	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.2	n.d.	0.3
Aviation Jet	0.3	0.1	0.4	0.6	0.4	0.3	0.5	0.5	0.8	n.d.	1.3
LPG	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2	n.d.	0.3
CO₂ Emissions (Million tons CO₂)	47.8	43.7	44.5	44.8	44.7	38.3	41.2	46.6	49.3	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	408.4	379.8	291.9	272.1	305.7	371.1	311.1	383.1	368.2	n.d.	-
Final energy intensity (toe/million \$15ppp)	71.8	78.3	56.7	53.1	59.4	79.5	64.4	78.4	75.9	n.d.	-
Total energy intensity (toe/million \$15ppp)	186.4	189.6	160.7	133.9	169.0	106.8	126.6	158.8	148.3	n.d.	-

*Heat is included

Primary energy demand mix



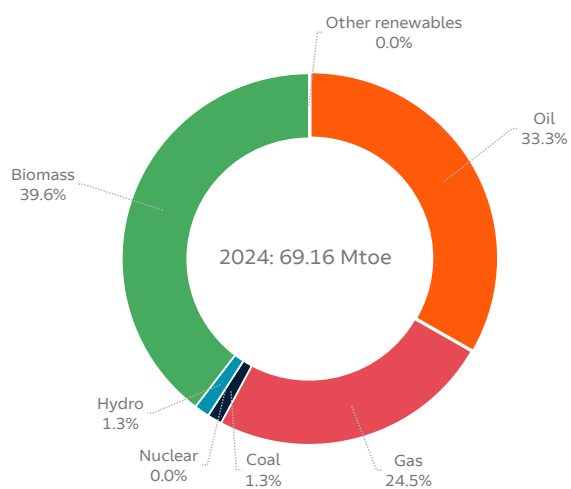
Electricity generation by source

Primary energy demand and CO₂ emissions growth

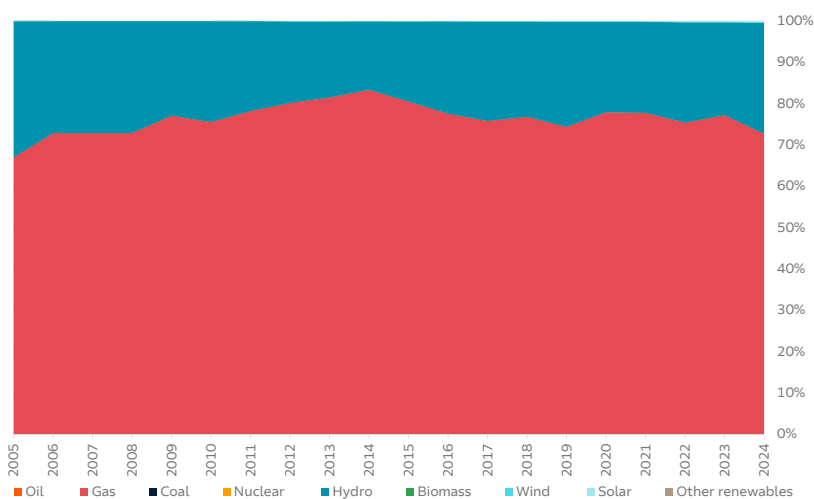
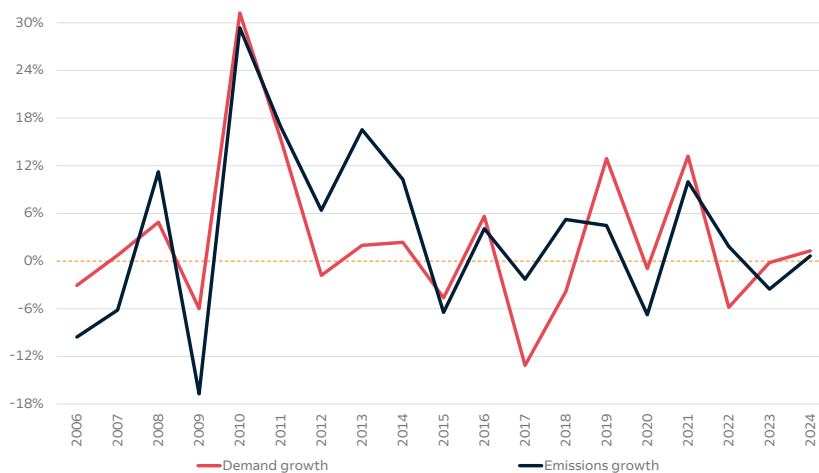
Nigeria (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	65.0	68.7	59.7	57.4	64.8	64.2	72.6	68.4	68.3	69.2	100.0
Oil	18.7	21.0	20.2	16.8	23.4	22.1	28.4	23.8	23.7	23.1	33.4
Gas	14.2	15.0	14.2	15.0	15.3	15.4	16.7	16.6	16.1	17.0	24.6
Coal	0.3	0.4	0.3	0.4	0.4	0.4	0.9	0.9	0.9	0.9	1.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	1.3
Biomass	31.2	31.7	24.5	24.8	25.1	25.7	26.3	26.5	27.0	27.5	39.7
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.0	-0.2	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3
Total final consumption, by source	52.3	53.5	46.0	47.7	49.6	47.8	51.8	53.0	52.3	53.8	100.0
Oil	17.9	18.6	18.6	19.9	21.3	18.9	21.3	22.4	21.5	21.5	40.0
Gas	3.8	3.7	3.5	3.7	3.8	3.8	4.4	4.0	3.6	4.8	8.9
Coal	0.3	0.4	0.3	0.4	0.4	0.4	0.9	0.9	0.9	0.9	1.6
Electricity	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.8	2.9	2.8	5.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	28.2	28.7	21.4	21.6	21.9	22.3	22.8	23.0	23.4	23.8	44.2
Electricity generation, by source	2.9	3.1	2.8	2.9	2.8	3.0	3.1	3.3	3.4	3.4	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	2.4	2.1	2.2	2.1	2.3	2.4	2.5	2.6	2.5	72.7
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	26.9
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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	52.3	53.5	46.0	47.7	49.6	47.8	51.8	53.0	52.3	53.8	100.0
Industry	7.9	7.9	7.7	8.0	8.0	8.1	9.0	9.0	8.9	9.7	18.0
Transport	14.9	17.1	17.1	18.3	19.6	16.9	19.1	20.3	18.9	18.3	34.0
Residential/Commercial	27.9	26.9	19.8	20.0	20.5	21.4	22.0	22.2	23.1	23.8	44.3
Oil final consumption, by sector	17.9	18.6	18.6	19.9	21.3	18.9	21.3	22.4	21.5	21.5	100.0
Industry	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	2.4
Transport	14.9	17.1	17.1	18.3	19.6	16.9	19.1	20.3	18.9	18.3	85.1
Residential/Commercial	2.2	0.8	0.9	0.9	1.1	1.5	1.7	1.5	2.0	2.5	11.7
Natural gas final consumption, by sector	3.8	3.7	3.5	3.7	3.8	3.8	4.4	4.0	3.6	4.8	100.0
Industry	2.4	2.4	2.3	2.4	2.4	2.5	2.9	2.5	2.2	3.0	62.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	17.9	18.6	18.6	19.9	21.3	18.9	21.3	22.4	21.5	21.5	100.0
Gasoline	12.3	13.5	13.5	14.2	15.2	13.4	15.1	16.1	13.7	12.5	58.0
Diesel	2.5	3.5	3.5	4.0	4.4	3.4	4.0	4.1	5.1	5.8	26.9
Heating Oil	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	2.4
Aviation Jet	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.2
LPG	0.0	0.1	0.1	0.2	0.4	0.8	0.9	0.8	1.2	1.3	6.1
Imports	17.0	19.6	18.2	13.2	22.5	22.1	22.9	23.7	22.2	19.2	100.0
Oil	17.0	19.6	18.2	13.2	22.5	22.1	22.9	23.7	22.2	19.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	10.9	14.2	13.1	8.4	16.5	15.4	17.2	18.3	15.8	13.6	70.6
Diesel	3.8	3.9	3.7	3.5	4.3	4.9	3.9	3.4	4.3	3.8	19.9
Heating Oil	0.1	0.3	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.4	0.6	0.7	0.9	0.8	0.4	0.5	0.7	0.6	0.5	2.4
LPG	0.0	0.0	0.0	0.1	0.0	0.6	0.5	0.4	0.6	0.6	2.9
Exports	129.8	110.0	114.5	117.8	123.4	99.9	87.7	73.3	77.3	79.1	100.0
Oil	108.3	90.6	91.8	95.5	101.0	77.3	69.1	57.4	62.4	63.4	80.1
Gas	21.5	19.4	22.7	22.3	22.4	22.5	18.6	15.9	14.9	15.7	19.9
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.8
Heating Oil	0.1	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.7
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)	85.0	88.4	86.4	91.0	95.0	88.6	97.5	99.3	95.8	96.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	85.9	90.8	88.1	90.9	93.0	88.3	93.7	92.4	86.7	84.3	-
Final energy intensity (toe/million \$15ppp)	51.3	53.4	45.5	46.3	47.2	46.2	48.2	47.9	46.0	45.4	-
Total energy intensity (toe/million \$15ppp)	65.7	70.5	60.8	57.3	63.3	63.9	69.8	63.7	61.8	60.5	-

*Heat is included

Primary energy demand mix



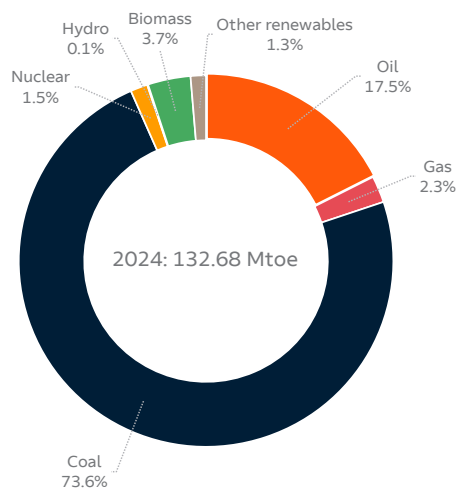
Electricity generation by source

Primary energy demand and CO₂ emissions growth

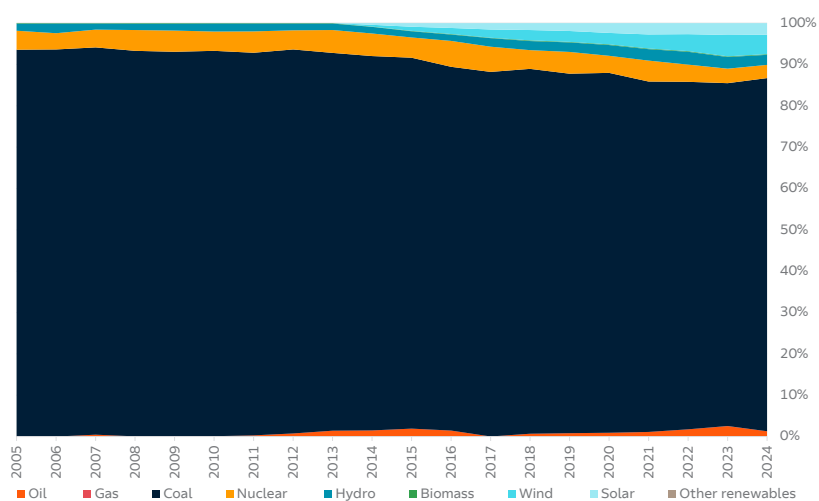
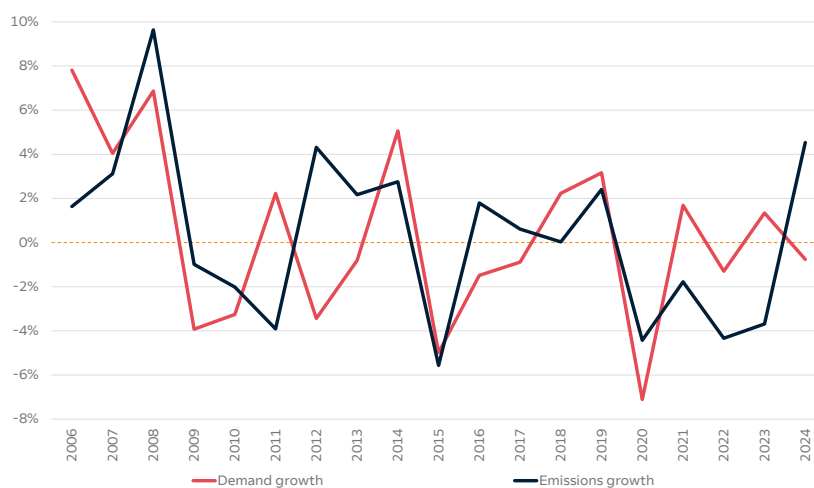
South Africa (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	137.4	135.4	134.2	137.2	141.5	131.4	133.7	131.9	133.7	132.7	100.0
Oil	20.8	20.3	22.5	21.4	19.8	18.9	23.5	24.5	25.3	23.3	17.5
Gas	4.3	3.4	3.2	4.3	4.3	4.2	3.1	3.0	3.1	3.1	2.3
Coal	103.0	102.1	98.2	102.0	107.7	99.5	97.4	95.1	96.3	97.8	73.7
Nuclear	3.2	4.1	4.1	3.0	3.5	2.6	3.2	2.6	2.0	2.0	1.5
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1
Biomass	5.6	5.2	5.6	5.6	5.3	5.0	4.8	4.9	4.9	4.9	3.7
Other renewables	0.4	0.7	0.9	1.1	1.3	1.3	1.6	1.6	1.8	1.8	1.3
Electricity balance of trade*	-0.0	-0.5	-0.5	-0.3	-0.3	-0.2	-0.2	-0.0	0.1	-0.2	-0.1
Total final consumption, by source	61.7	58.3	61.5	65.3	61.1	56.8	58.1	58.5	57.8	56.9	100.0
Oil	25.1	24.3	27.4	26.0	24.6	21.7	23.8	25.0	25.2	24.1	42.3
Gas	2.3	2.3	2.4	2.1	2.1	2.1	2.0	1.8	1.8	1.8	3.2
Coal	14.2	10.5	10.4	15.7	13.3	12.8	12.2	12.0	11.6	11.2	19.7
Electricity	16.4	17.5	17.4	17.5	17.1	16.4	16.6	16.0	15.5	16.1	28.3
Heat	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	3.6	3.6	3.8	3.9	3.8	3.6	3.5	3.5	3.5	3.6	6.2
Electricity generation, by source	21.5	21.9	22.2	22.1	21.7	20.6	21.0	20.2	19.3	20.3	100.0
Oil	0.4	0.3	0.0	0.2	0.2	0.2	0.2	0.4	0.5	0.3	1.3
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	19.3	19.3	19.5	19.5	18.9	17.9	17.8	17.0	16.0	17.3	85.4
Nuclear	1.1	1.4	1.4	1.0	1.1	0.9	1.1	0.8	0.7	0.7	3.2
Hydro	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	2.4
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Wind	0.2	0.3	0.4	0.6	0.6	0.6	0.7	0.8	1.0	1.0	4.7
Solar	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.5	0.6	0.6	2.8
Other renewables	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	61.7	58.3	61.5	65.3	61.1	56.8	58.1	58.5	57.8	56.9	100.0
Industry	24.0	23.8	22.4	25.0	24.2	23.3	22.5	22.1	21.6	21.6	37.9
Transport	18.1	19.2	19.3	18.5	17.4	14.7	16.1	16.0	16.2	15.6	27.4
Residential/Comercial	13.1	10.6	12.2	14.8	12.8	12.1	12.3	12.0	11.7	11.8	20.8
Oil final consumption, by sector	25.1	24.3	27.4	26.0	24.6	21.7	23.8	25.0	25.2	24.1	100.0
Industry	2.3	1.9	1.8	2.0	1.9	1.5	1.7	1.7	1.7	1.6	6.5
Transport	17.9	18.9	19.0	18.2	17.1	14.5	15.9	15.9	16.0	15.4	64.1
Residential/Comercial	0.7	0.8	0.7	0.7	0.7	0.6	0.7	0.8	0.8	0.7	3.0
Natural gas final consumption, by sector	2.3	2.3	2.4	2.1	2.1	2.1	2.0	1.8	1.8	1.8	100.0
Industry	2.2	2.2	2.3	2.1	2.1	2.1	1.9	1.8	1.8	1.8	98.3
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Comercial	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	25.1	24.3	27.4	26.0	24.6	21.7	23.8	25.0	25.2	24.1	100.0
Gasoline	8.9	9.8	9.6	9.2	7.9	6.3	6.8	6.7	6.6	6.4	26.5
Diesel	11.7	11.5	11.9	11.7	12.0	10.6	11.7	11.5	11.3	10.9	45.2
Heating Oil	0.6	0.6	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.4	1.7
Aviation Jet	0.6	0.6	0.7	0.6	0.6	0.3	0.4	0.5	0.7	0.6	2.6
LPG	0.3	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.7
Imports	33.0	29.8	31.6	34.7	31.6	28.0	27.7	31.1	32.7	30.7	100.0
Oil	29.7	27.0	29.0	31.3	28.3	24.7	24.6	28.1	29.6	27.6	90.0
Gas	3.3	2.8	2.7	3.4	3.3	3.3	3.1	3.0	3.1	3.1	10.0
Gasoline	1.5	1.1	1.6	1.7	1.1	1.3	3.1	4.2	3.5	3.1	10.2
Diesel	5.7	3.9	5.3	5.4	5.2	6.0	8.6	10.5	11.3	9.5	31.0
Heating Oil	0.1	0.0	0.0	0.1	0.1	0.2	0.5	0.9	0.9	0.6	1.8
Aviation Jet	0.2	0.1	0.4	0.3	0.4	0.5	0.4	0.7	0.6	0.6	2.0
LPG	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.6
Exports	4.5	3.4	3.7	4.5	3.8	2.8	2.0	2.1	2.1	2.6	100.0
Oil	4.5	3.4	3.7	4.5	3.8	2.8	2.0	2.1	2.1	2.6	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	0.8	0.9	0.8	1.0	0.9	0.9	0.8	0.7	0.8	0.7	27.7
Diesel	1.4	1.7	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.7	27.1
Heating Oil	1.1	0.0	0.4	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.6
Aviation Jet	0.8	0.3	0.3	0.4	0.3	0.5	0.1	0.3	0.4	0.4	16.1
LPG	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	3.6
CO₂ Emissions (Million tons CO₂)	462.9	471.2	474.1	474.3	485.7	464.2	455.9	436.1	420.1	439.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	609.1	616.0	612.7	603.5	616.4	627.8	587.5	551.5	527.5	548.2	-
Final energy intensity (toe/million \$15ppp)	76.4	73.5	73.3	77.8	72.5	71.1	69.2	66.8	65.5	64.4	-
Total energy intensity (toe/million \$15ppp)	180.8	177.0	173.4	174.5	179.6	177.8	172.3	166.8	167.9	165.7	-

*Heat is included

Primary energy demand mix



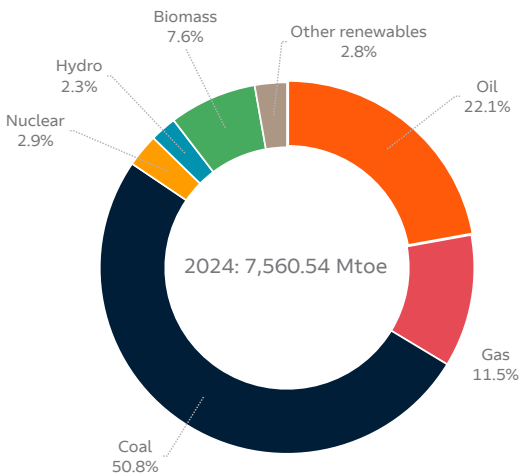
Electricity generation by source

Primary energy demand and CO₂ emissions growth

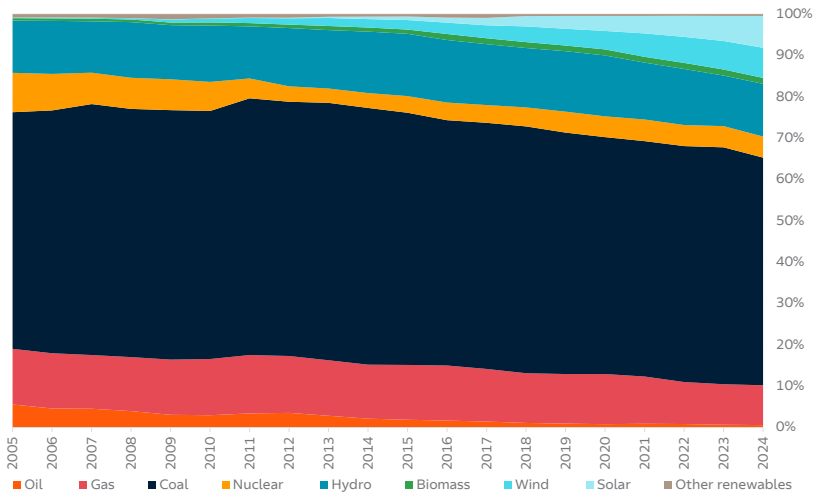
Asia-Pacific (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	5,606.4	5,694.3	5,911.9	6,152.4	6,340.3	6,328.7	6,680.8	6,967.2	7,317.3	7,560.5	100.0
Oil	1,417.6	1,460.1	1,516.5	1,530.4	1,559.1	1,517.4	1,561.4	1,588.3	1,650.7	1,658.7	21.9
Gas	594.9	621.2	656.3	709.1	733.9	754.9	801.1	792.4	821.8	864.3	11.4
Coal	2,789.6	2,759.7	2,842.2	2,968.1	3,057.6	3,057.4	3,255.5	3,480.3	3,688.1	3,807.7	50.4
Nuclear	110.7	122.4	130.3	147.9	168.5	169.6	189.8	193.4	205.0	214.1	2.8
Hydro	134.1	139.4	143.4	147.8	155.6	159.9	160.4	165.1	156.5	172.1	2.3
Biomass	480.9	498.9	516.2	529.0	532.6	522.9	535.8	546.7	558.2	567.6	7.5
Other renewables	28.8	37.7	49.6	66.8	78.1	90.0	118.4	142.0	170.9	207.9	2.8
Electricity balance of trade*	49.9	54.8	57.5	53.4	54.8	56.7	58.4	59.1	66.0	68.0	0.9
Total final consumption, by source	3,749.6	3,793.1	3,896.4	4,012.4	4,067.9	4,068.5	4,218.1	4,396.0	4,646.4	4,832.2	100.0
Oil	1,221.1	1,251.6	1,304.3	1,320.6	1,325.0	1,285.8	1,349.6	1,346.3	1,432.7	1,442.4	29.8
Gas	276.9	289.2	314.4	347.4	372.1	379.9	411.6	432.9	452.6	478.8	9.9
Coal	963.0	913.0	875.0	869.0	848.1	864.4	808.6	889.6	950.4	1,003.1	20.8
Electricity	759.4	794.0	843.7	892.6	932.1	943.3	1,014.2	1,061.3	1,112.4	1,173.6	24.3
Heat	113.1	121.3	128.7	141.1	145.5	156.7	184.8	208.8	234.5	263.7	5.5
Biomass	416.0	424.0	430.3	441.7	445.1	438.3	449.4	457.1	463.9	470.6	9.7
Electricity generation, by source	905.6	947.3	1,001.7	1,058.8	1,093.2	1,113.4	1,196.9	1,248.5	1,316.7	1,387.1	100.0
Oil	17.1	16.0	14.4	11.9	10.4	9.1	10.8	10.6	8.9	8.2	0.6
Gas	119.9	126.3	127.8	127.2	131.1	134.8	136.9	127.1	129.3	133.7	9.6
Coal	552.5	562.0	596.1	632.2	638.4	638.1	681.5	712.2	754.4	763.9	55.1
Nuclear	36.5	40.4	43.0	48.8	55.6	56.0	62.6	63.8	67.7	70.7	5.1
Hydro	136.4	143.3	147.5	151.9	159.7	164.0	164.7	169.4	160.8	176.8	12.7
Biomass	9.4	13.8	14.4	15.2	15.0	16.4	16.7	18.4	19.2	20.1	1.5
Wind	20.7	25.8	31.5	40.1	44.4	49.9	67.9	78.3	90.9	101.1	7.3
Solar	8.1	11.9	18.1	26.7	33.7	40.2	50.5	63.7	80.1	106.8	7.7
Other renewables	5.0	7.8	8.9	4.8	4.9	4.9	5.3	5.1	5.5	5.9	0.4
Total final consumption, by sector	3,749.6	3,793.1	3,896.4	4,012.4	4,067.9	4,068.5	4,218.1	4,396.0	4,646.4	4,832.2	100.0
Industry	1,590.2	1,561.7	1,595.4	1,672.3	1,681.2	1,699.2	1,739.2	1,865.0	1,982.5	2,087.4	43.2
Transport	696.2	720.8	756.0	774.5	784.6	738.2	775.5	779.9	832.6	846.8	17.5
Residential/Commercial	927.5	961.8	987.1	1,001.6	1,018.2	1,017.3	1,059.4	1,086.8	1,131.2	1,184.1	24.5
Oil final consumption, by sector	1,221.1	1,251.6	1,304.3	1,320.6	1,325.0	1,285.8	1,349.6	1,346.3	1,432.7	1,442.4	100.0
Industry	104.3	106.8	109.7	112.0	109.0	97.3	98.1	101.7	106.7	102.6	7.1
Transport	640.2	660.2	689.3	703.8	705.6	657.8	690.2	694.8	745.4	753.1	52.2
Residential/Commercial	138.0	138.8	143.5	140.4	135.6	136.5	134.5	129.5	139.3	142.8	9.9
Natural gas final consumption, by sector	276.9	289.2	314.4	347.4	372.1	379.9	411.6	432.9	452.6	478.8	100.0
Industry	117.1	123.1	138.9	165.5	176.2	183.4	207.5	228.8	242.1	256.9	53.7
Transport	28.0	29.9	32.5	33.0	37.6	37.7	39.8	37.7	38.3	43.1	9.0
Residential/Commercial	85.6	88.2	94.6	99.6	104.4	106.5	111.0	111.8	113.8	118.9	24.8
Refined products consumption	1,216.7	1,247.7	1,302.7	1,319.2	1,323.7	1,283.5	1,346.8	1,345.2	1,431.4	1,441.0	100.0
Gasoline	284.6	296.3	306.3	317.2	326.4	306.3	322.3	322.6	339.8	346.3	24.0
Diesel	419.1	421.9	433.1	435.2	420.9	394.4	408.1	424.1	448.2	442.9	30.7
Heating Oil	29.4	29.8	30.1	27.7	28.9	28.7	30.7	34.0	38.1	34.5	2.4
Aviation Jet	37.2	39.8	45.3	47.8	48.4	41.1	43.9	35.4	49.3	55.3	3.8
LPG	108.9	117.8	125.2	132.0	134.2	131.9	135.6	139.8	150.0	157.3	10.9
Imports	1,798.7	1,910.2	2,030.6	2,097.3	2,116.7	2,051.5	2,086.2	2,121.5	2,237.4	2,276.6	100.0
Oil	1,540.5	1,633.2	1,723.3	1,756.1	1,771.2	1,692.2	1,704.4	1,757.7	1,867.0	1,882.2	82.7
Gas	258.2	277.0	307.2	341.2	345.4	359.3	381.8	363.8	370.4	394.3	17.3
Gasoline	61.1	62.9	61.9	65.9	72.7	69.2	72.5	85.0	87.9	91.0	4.0
Diesel	71.9	84.6	89.7	89.6	93.0	83.8	84.3	86.0	91.7	98.3	4.3
Heating Oil	113.1	111.7	118.5	108.4	100.9	93.4	103.6	96.9	114.7	118.3	5.2
Aviation Jet	22.1	26.9	29.6	28.5	25.1	17.1	11.6	14.1	19.2	52.1	2.3
LPG	57.2	64.8	68.4	71.9	77.1	78.1	82.7	89.8	96.7	103.1	4.5
Exports	507.8	547.2	576.3	569.9	578.7	543.5	552.4	559.7	565.1	593.6	100.0
Oil	398.8	423.6	434.0	422.7	411.6	375.9	386.7	383.1	396.2	395.1	70.1
Gas	109.0	123.6	142.3	147.3	167.0	167.6	165.8	176.6	168.9	168.5	29.9
Gasoline	67.9	71.5	71.3	71.2	75.7	69.6	81.0	84.5	85.8	88.5	15.7
Diesel	108.9	121.0	125.0	128.3	132.2	122.0	121.0	114.6	116.8	106.4	18.9
Heating Oil	55.2	54.5	58.7	55.2	48.2	42.3	47.9	48.0	51.0	52.7	9.4
Aviation Jet	45.0	49.0	51.3	50.8	52.8	40.1	36.5	39.5	45.2	48.7	8.6
LPG	3.9	4.4	4.8	5.2	5.7	7.0	7.0	6.6	5.9	6.5	1.2
CO₂ Emissions (Million tons CO₂)	15,483.4	15,553.8	16,133.0	16,832.8	17,006.0	16,773.7	17,461.1	18,179.4	19,240.5	19,725.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	406.6	388.1	380.1	376.0	366.3	367.0	356.8	354.6	355.4	348.7	-
Final energy intensity (toe/million \$15ppp)	85.8	82.1	79.9	78.0	75.8	76.7	74.5	74.8	75.4	75.0	-
Total energy intensity (toe/million \$15ppp)	128.2	123.3	121.2	119.6	118.2	119.4	118.0	118.5	118.7	117.4	-

*Heat is included

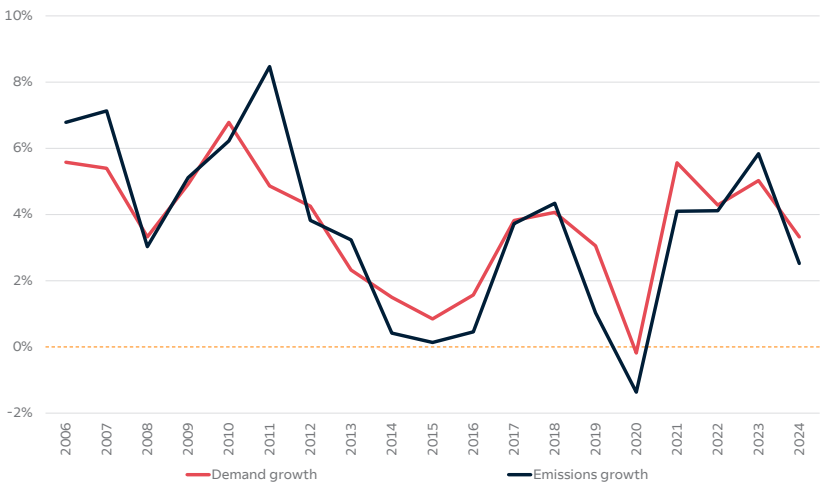
Primary energy demand mix



Electricity generation by source



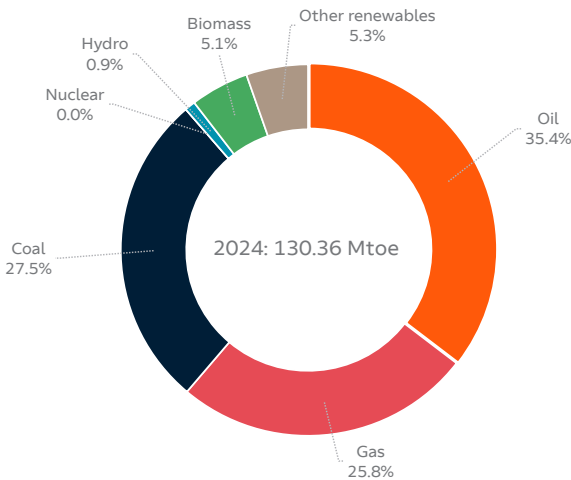
Primary energy demand and CO₂ emissions growth



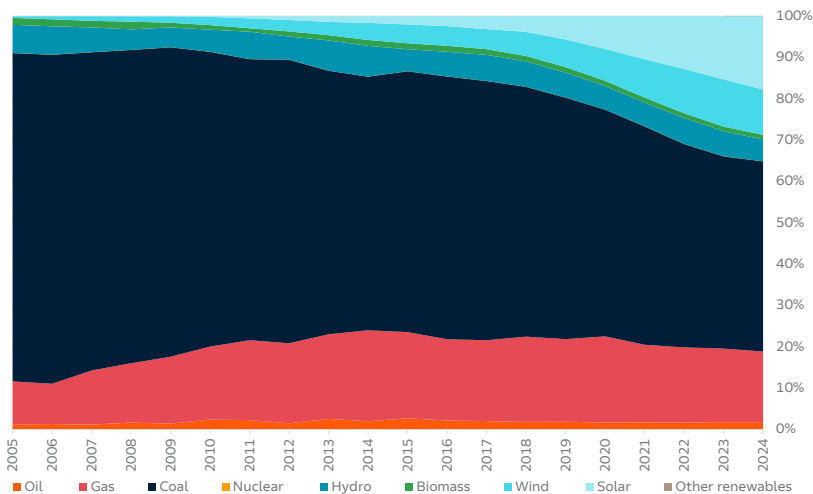
Australia (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	129.7	128.5	132.4	132.6	134.9	134.7	131.1	128.2	129.6	130.4	100.0
Oil	42.4	42.8	42.8	43.9	43.8	44.3	42.4	43.4	45.0	46.0	35.3
Gas	33.2	30.5	31.4	32.6	34.0	37.2	36.5	34.4	34.7	33.4	25.6
Coal	43.6	44.5	47.2	45.1	45.8	41.6	39.5	36.6	35.1	35.7	27.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.3	1.4	1.4	1.3	1.3	1.3	1.4	1.4	1.2	0.9
Biomass	7.6	7.5	7.5	7.1	6.7	6.3	6.5	6.4	6.6	6.6	5.0
Other renewables	1.4	1.6	1.8	2.2	2.8	3.6	4.5	5.5	6.3	6.9	5.3
Electricity balance of trade*	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.4
Total final consumption, by source	81.6	81.6	81.5	82.6	81.6	79.1	79.4	79.4	82.7	83.3	100.0
Oil	41.5	42.0	42.5	43.6	43.1	40.8	40.6	40.4	43.1	43.9	52.7
Gas	12.9	12.2	12.0	12.0	11.7	11.9	12.2	12.1	12.3	11.7	14.1
Coal	2.0	2.3	2.4	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.9
Electricity	18.4	18.5	18.3	18.5	18.6	18.6	18.6	19.0	19.2	19.6	23.5
Heat	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.7
Biomass	6.4	6.3	5.9	5.5	5.2	4.9	5.0	5.0	5.2	5.2	6.2
Electricity generation, by source	21.6	22.1	22.2	22.4	22.7	22.8	22.8	23.4	23.6	24.1	100.0
Oil	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.8
Gas	4.5	4.3	4.3	4.6	4.5	4.7	4.3	4.2	4.2	4.1	17.1
Coal	13.6	14.0	13.9	13.6	13.3	12.5	12.1	11.5	11.0	11.1	46.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.3	1.4	1.4	1.4	1.3	1.3	1.5	1.4	1.3	5.3
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.1
Wind	1.0	1.0	1.1	1.3	1.5	1.8	2.1	2.5	2.7	2.7	11.0
Solar	0.4	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.6	4.3	17.7
Other renewables	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	81.6	81.6	81.5	82.6	81.6	79.1	79.4	79.4	82.7	83.3	100.0
Industry	23.6	23.5	23.3	23.5	22.8	22.5	23.1	23.1	23.8	23.7	28.4
Transport	31.2	31.5	31.9	32.6	32.5	30.3	29.3	29.8	32.2	32.8	39.4
Residential/Commercial	19.0	18.6	18.4	18.4	18.9	19.0	19.0	19.3	19.1	19.2	23.1
Oil final consumption, by sector	41.5	42.0	42.5	43.6	43.1	40.8	40.6	40.4	43.1	43.9	100.0
Industry	3.8	3.7	3.8	4.1	4.2	4.3	4.5	4.5	4.7	4.7	10.7
Transport	30.3	30.7	31.2	31.9	31.8	29.6	28.6	29.1	31.5	32.1	73.1
Residential/Commercial	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9	1.0	1.0	2.2
Natural gas final consumption, by sector	12.9	12.2	12.0	12.0	11.7	11.9	12.2	12.1	12.3	11.7	100.0
Industry	6.7	6.5	6.3	6.2	6.1	6.2	6.3	6.2	6.7	6.4	54.5
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.3
Residential/Commercial	4.7	4.3	4.4	4.4	4.4	4.5	4.5	4.6	4.3	4.1	34.6
Refined products consumption	41.5	42.0	42.4	43.6	43.0	40.8	40.6	40.4	43.1	43.9	100.0
Gasoline	14.2	14.1	14.3	14.1	13.8	12.3	12.2	11.3	12.0	12.0	27.4
Diesel	18.0	18.6	19.3	20.7	20.7	20.6	21.3	22.2	23.0	23.6	53.7
Heating Oil	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
Aviation Jet	3.0	3.0	3.1	3.1	2.9	2.3	1.6	2.0	3.1	3.3	7.6
LPG	1.7	1.6	1.3	1.1	1.0	1.0	0.9	0.8	0.8	0.8	1.7
Imports	47.7	48.4	49.6	52.8	52.4	49.3	46.5	48.0	50.4	52.0	100.0
Oil	43.2	43.6	45.2	48.8	48.0	45.4	42.0	44.7	49.3	51.5	99.0
Gas	4.5	4.9	4.4	4.0	4.3	3.9	4.5	3.3	1.1	0.5	1.0
Gasoline	4.3	5.1	5.3	4.9	4.7	4.5	5.9	6.8	7.8	7.9	15.2
Diesel	12.7	15.1	15.7	17.3	17.6	18.8	19.5	22.7	25.5	26.3	50.6
Heating Oil	0.2	0.3	0.2	0.7	0.7	0.6	0.3	0.4	0.7	0.8	1.6
Aviation Jet	3.6	4.7	4.9	5.2	4.9	4.1	2.3	3.2	5.0	6.2	11.8
LPG	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.7
Exports	43.6	56.6	74.1	85.5	102.6	110.9	107.7	117.5	114.3	112.9	100.0
Oil	14.2	13.1	12.7	12.9	14.6	17.6	16.5	17.8	16.7	16.1	14.2
Gas	29.4	43.5	61.4	72.7	88.0	93.3	91.2	99.7	97.6	96.9	85.8
Gasoline	0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.0	0.0	0.0
Diesel	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.1	0.1	0.2	0.2
Aviation Jet	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
LPG	1.3	1.2	1.3	1.4	1.8	3.1	2.8	3.3	2.6	2.8	2.5
CO₂ Emissions (Million tons CO₂)	373.8	378.0	391.7	388.4	386.4	370.5	362.8	356.2	359.9	361.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	339.2	333.9	338.2	326.1	317.5	304.7	292.3	275.3	268.9	267.3	-
Final energy intensity (toe/million \$15ppp)	69.1	67.2	65.9	64.8	62.8	60.7	59.7	57.7	58.1	58.0	-
Total energy intensity (toe/million \$15ppp)	117.7	113.5	114.4	111.3	110.8	110.8	105.6	99.1	96.8	96.4	-

*Heat is included

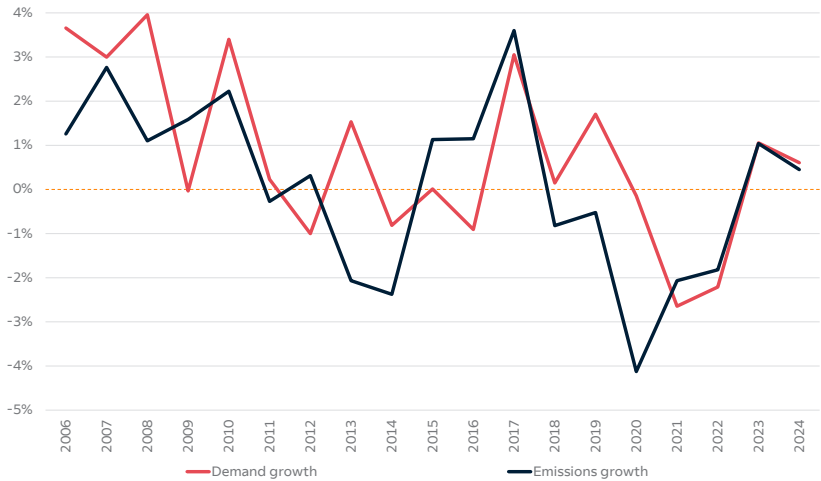
Primary energy demand mix



Electricity generation by source



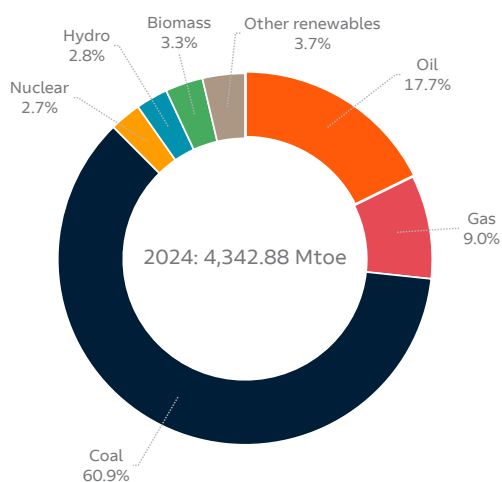
Primary energy demand and CO₂ emissions growth



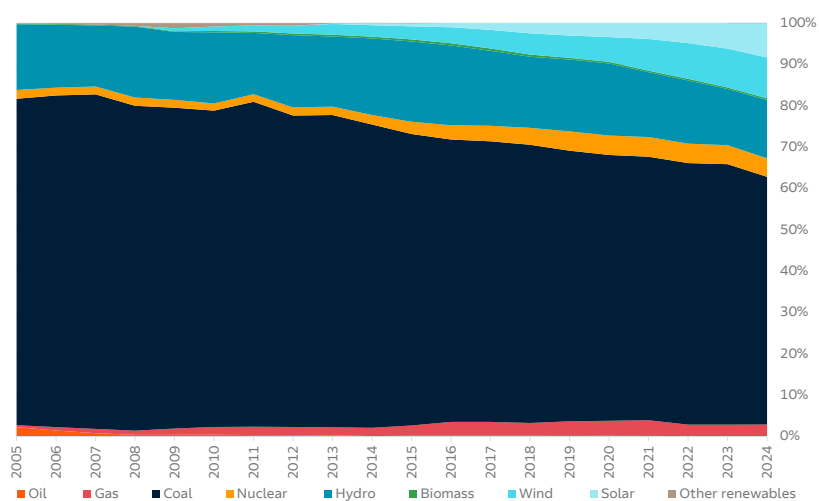
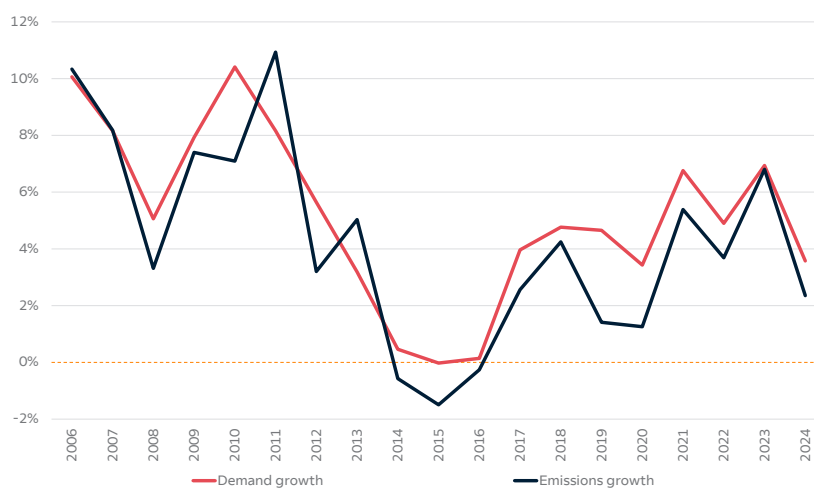
China (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	2,965.5	2,969.8	3,087.5	3,234.6	3,385.1	3,501.2	3,737.8	3,920.9	4,192.9	4,342.9	100.0
Oil	548.0	567.4	597.5	625.3	658.4	673.4	689.6	694.1	767.8	763.6	17.6
Gas	166.1	184.3	212.5	251.4	275.4	295.6	334.4	337.9	362.2	388.6	8.9
Coal	1,959.2	1,897.6	1,931.8	1,982.1	2,046.6	2,108.5	2,252.4	2,403.2	2,550.6	2,627.2	60.5
Nuclear	44.5	55.6	64.7	76.7	90.8	95.4	106.2	108.9	113.3	117.5	2.7
Hydro	95.8	99.2	100.2	103.1	109.4	113.8	112.4	113.5	107.9	119.6	2.8
Biomass	111.9	118.8	124.1	127.7	128.4	128.9	133.9	135.6	138.0	140.5	3.2
Other renewables	19.3	25.7	34.7	46.7	54.2	62.6	84.4	102.3	126.4	157.9	3.6
Electricity balance of trade*	20.7	21.3	21.9	21.5	21.9	23.0	24.4	25.5	26.8	28.0	0.6
Total final consumption, by source	1,913.2	1,925.5	1,952.2	2,015.1	2,052.2	2,131.4	2,243.6	2,369.1	2,565.7	2,697.6	100.0
Oil	474.7	488.9	509.5	523.1	529.3	541.7	586.9	572.7	652.4	654.7	24.3
Gas	119.7	128.2	146.9	175.6	195.0	208.6	228.5	251.4	269.5	289.2	10.7
Coal	702.7	656.4	597.9	562.2	541.6	559.9	515.1	580.1	609.2	640.7	23.8
Electricity	415.3	437.7	474.0	515.7	541.3	564.4	623.4	649.0	691.2	738.6	27.4
Heat	104.6	112.4	118.8	130.0	134.7	145.7	173.0	197.7	223.1	252.0	9.3
Biomass	96.2	102.0	105.0	108.5	110.2	111.1	116.6	118.2	120.3	122.5	4.5
Electricity generation, by source	500.1	527.5	568.0	616.3	645.3	669.0	733.9	761.0	813.3	867.5	100.0
Oil	0.9	1.0	0.9	1.1	1.0	1.2	1.1	0.7	0.8	0.8	0.1
Gas	12.5	17.7	19.1	19.2	22.7	24.4	27.9	21.1	22.7	24.3	2.8
Coal	352.6	360.2	385.6	414.7	422.6	430.1	467.8	481.4	512.3	519.8	59.9
Nuclear	14.7	18.3	21.3	25.3	30.0	31.5	35.0	35.9	37.4	38.8	4.5
Hydro	97.2	101.8	103.0	105.9	112.2	116.5	115.2	116.3	110.6	122.6	14.1
Biomass	2.4	2.7	3.2	3.3	2.6	2.7	2.5	3.1	3.2	3.2	0.4
Wind	16.0	20.4	25.6	31.5	34.9	40.1	56.4	65.6	76.2	85.7	9.9
Solar	3.3	5.3	9.1	15.3	19.3	22.4	28.0	36.7	50.2	72.2	8.3
Other renewables	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	1,913.2	1,925.5	1,952.2	2,015.1	2,052.2	2,131.4	2,243.6	2,369.1	2,565.7	2,697.6	100.0
Industry	964.2	931.8	928.6	959.5	968.2	997.3	1,037.3	1,131.2	1,213.0	1,290.7	47.8
Transport	292.2	301.2	317.0	327.3	330.7	320.2	346.7	320.3	368.6	371.5	13.8
Residential/Commercial	398.4	424.3	441.6	456.3	465.6	480.9	513.9	532.5	564.4	603.6	22.4
Oil final consumption, by sector	474.7	488.9	509.5	523.1	529.3	541.7	586.9	572.7	652.4	654.7	100.0
Industry	35.7	35.4	36.7	38.7	39.6	32.7	36.1	36.6	39.4	37.3	5.7
Transport	253.9	260.5	271.8	280.2	277.8	266.5	290.2	265.7	311.7	312.1	47.7
Residential/Commercial	58.4	59.3	60.9	58.1	53.5	53.2	52.8	48.4	54.0	55.3	8.4
Natural gas final consumption, by sector	119.7	128.2	146.9	175.6	195.0	208.6	228.5	251.4	269.5	289.2	100.0
Industry	51.3	56.2	70.2	94.2	104.4	111.3	127.0	148.8	159.5	171.1	59.2
Transport	19.0	20.2	22.6	23.0	27.7	29.2	30.4	28.1	30.1	32.3	11.2
Residential/Commercial	39.0	41.0	45.1	49.8	54.0	58.8	61.8	62.5	67.0	71.9	24.9
Refined products consumption	471.2	485.8	508.9	522.4	528.8	540.0	584.7	572.0	651.7	654.0	100.0
Gasoline	118.9	124.2	129.0	136.6	142.5	133.7	148.9	137.9	154.1	157.2	24.0
Diesel	172.4	167.1	166.8	163.3	147.6	141.3	150.2	154.5	174.8	169.2	25.9
Heating Oil	9.1	7.8	9.7	8.5	11.3	11.9	14.3	15.9	21.8	18.4	2.8
Aviation Jet	18.8	20.9	23.7	26.0	27.4	27.8	29.9	17.1	29.7	33.0	5.1
LPG	37.1	43.7	49.0	51.6	51.3	50.8	54.1	56.4	63.4	67.4	10.3
Imports	445.6	505.3	568.1	642.3	691.3	732.2	730.2	714.8	818.3	826.4	100.0
Oil	394.3	442.7	488.8	537.8	579.5	615.0	589.8	588.4	679.4	674.0	81.6
Gas	51.3	62.6	79.4	104.5	111.7	117.2	140.4	126.4	138.9	152.4	18.4
Gasoline	0.2	0.2	0.0	0.5	0.4	0.5	0.4	0.0	0.1	0.0	0.0
Diesel	0.4	0.9	0.8	0.7	1.2	1.2	0.8	0.4	0.1	0.1	0.0
Heating Oil	14.8	11.3	13.0	16.0	14.3	12.0	13.3	12.5	27.4	28.3	3.4
Aviation Jet	3.7	3.7	4.0	4.3	3.0	2.8	1.7	1.2	0.5	0.5	0.1
LPG	13.7	18.5	21.1	21.6	23.2	22.1	27.3	29.6	36.0	39.3	4.8
Exports	46.8	59.6	65.3	69.9	77.0	72.5	72.2	64.8	74.6	71.4	100.0
Oil	44.1	56.7	62.4	67.1	73.9	68.2	67.6	59.9	69.2	66.4	92.9
Gas	2.7	2.9	3.0	2.8	3.0	4.3	4.6	4.9	5.4	5.0	7.1
Gasoline	6.2	10.2	11.1	13.5	17.2	16.8	15.3	13.2	12.8	10.2	14.2
Diesel	7.3	15.7	17.5	18.8	21.7	20.1	17.5	11.1	14.0	8.1	11.4
Heating Oil	10.1	9.5	10.6	11.8	10.7	15.2	18.8	17.9	20.1	20.5	28.7
Aviation Jet	13.2	14.0	14.0	15.6	18.8	10.6	9.1	11.7	16.9	20.2	28.3
LPG	1.6	1.5	1.5	1.2	1.5	1.0	1.1	1.0	1.0	1.4	1.9
CO₂ Emissions (Million tons CO₂)	9,135.2	9,111.4	9,344.9	9,741.6	9,879.1	10,003.5	10,542.2	10,931.0	11,674.7	11,949.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	501.5	468.1	448.9	438.4	419.6	415.6	403.8	406.7	412.7	402.3	-
Final energy intensity (toe/million \$15ppp)	94.6	88.7	84.4	81.3	77.6	77.3	75.1	76.2	78.2	78.5	-
Total energy intensity (toe/million \$15ppp)	162.8	152.6	148.3	145.6	143.8	145.5	143.2	145.9	148.2	146.2	-

*Heat is included

Primary energy demand mix



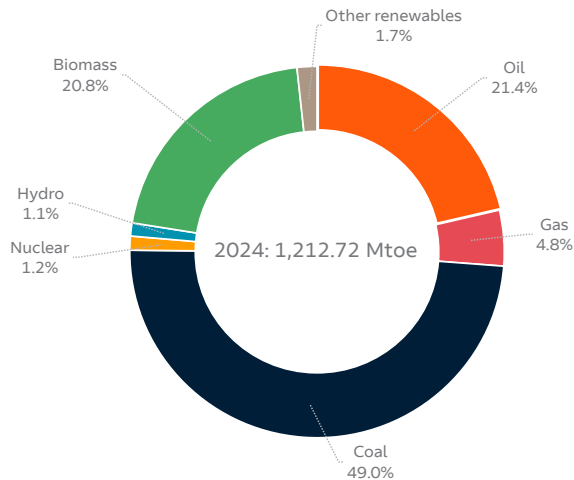
Electricity generation by source

Primary energy demand and CO₂ emissions growth

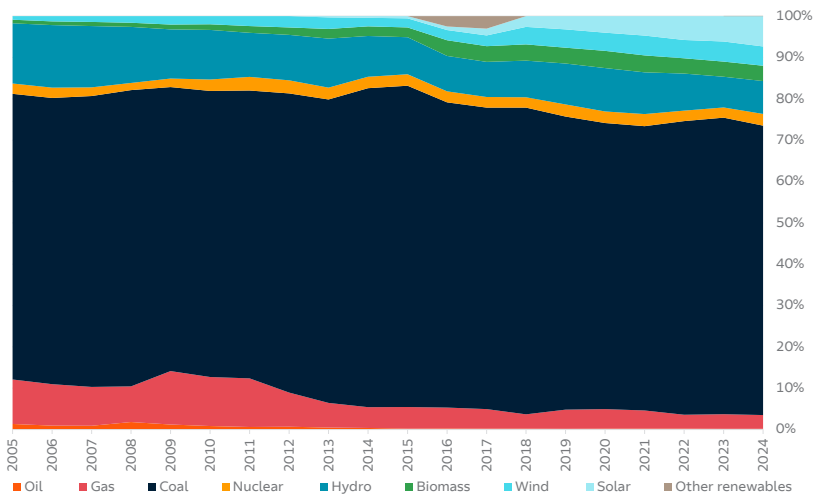
India (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	861.8	898.4	946.3	984.7	988.5	941.6	1,011.6	1,088.0	1,159.1	1,212.7	100.0
Oil	216.4	225.1	237.4	233.3	236.0	214.9	223.0	247.3	250.6	259.1	21.4
Gas	41.4	47.8	48.9	51.7	51.1	51.0	53.2	49.0	55.0	58.8	4.8
Coal	393.2	401.3	420.7	454.1	450.6	419.7	470.4	513.6	566.5	593.7	49.0
Nuclear	9.8	9.9	10.0	9.9	12.1	11.2	12.3	12.0	12.5	14.8	1.2
Hydro	10.5	10.5	10.9	11.6	13.4	13.8	14.0	14.0	12.4	13.8	1.1
Biomass	187.3	196.6	209.3	215.4	215.1	220.0	225.7	236.4	244.0	251.9	20.8
Other renewables	3.2	4.1	5.4	8.9	10.4	11.1	13.1	15.9	18.3	20.8	1.7
Electricity balance of trade*	0.0	3.0	3.7	-0.3	-0.3	-0.0	-0.0	-0.2	-0.2	-0.2	-0.0
Total final consumption, by source	634.5	645.2	673.6	702.1	710.3	684.0	712.0	754.0	810.4	841.9	100.0
Oil	180.3	186.4	198.9	204.1	205.6	189.1	203.2	213.1	223.8	229.1	27.2
Gas	25.1	26.8	27.0	27.3	29.6	29.5	36.3	35.9	40.4	44.2	5.2
Coal	173.0	170.5	175.5	189.7	183.0	177.6	177.1	184.9	215.1	226.6	26.9
Electricity	88.5	91.7	97.2	99.6	111.1	101.7	103.8	120.7	126.2	131.2	15.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	167.6	169.8	175.0	181.4	181.0	186.2	191.6	199.4	204.9	210.8	25.0
Electricity generation, by source	116.5	123.2	128.2	130.9	135.6	131.9	138.5	156.2	166.7	173.4	100.0
Oil	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2
Gas	6.1	6.3	6.1	4.5	6.3	6.3	6.1	5.3	5.9	5.7	3.3
Coal	90.5	91.0	93.5	97.1	96.1	91.2	95.3	111.0	119.5	121.4	70.0
Nuclear	3.2	3.3	3.3	3.3	4.0	3.7	4.1	3.9	4.1	4.9	2.8
Hydro	10.5	10.5	10.9	11.6	13.4	13.8	14.0	14.0	12.4	13.8	8.0
Biomass	2.7	4.7	4.9	5.1	5.2	5.5	5.7	5.8	6.1	6.4	3.7
Wind	2.6	3.1	3.3	5.5	6.0	5.8	6.6	6.9	8.1	8.1	4.6
Solar	0.6	1.1	2.1	3.4	4.3	5.3	6.5	9.0	10.2	12.7	7.3
Other renewables	0.0	3.1	3.9	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	634.5	645.2	673.6	702.1	710.3	684.0	712.0	754.0	810.4	841.9	100.0
Industry	283.9	283.5	300.6	320.3	320.1	311.4	313.0	330.0	366.5	381.8	45.4
Transport	101.4	107.3	117.6	123.0	124.6	110.8	121.5	139.0	144.3	153.0	18.2
Residential/Commercial	177.1	181.4	182.4	184.3	188.6	185.2	192.2	204.4	212.7	219.9	26.1
Oil final consumption, by sector	180.3	186.4	198.9	204.1	205.6	189.1	203.2	213.1	223.8	229.1	100.0
Industry	20.7	22.2	24.5	22.1	22.1	18.7	17.7	18.2	19.3	18.7	8.2
Transport	97.0	102.3	111.9	116.6	117.2	103.4	111.9	128.6	135.1	140.3	61.2
Residential/Commercial	27.3	28.1	28.5	29.9	30.6	31.4	31.9	31.2	32.2	33.9	14.8
Natural gas final consumption, by sector	25.1	26.8	27.0	27.3	29.6	29.5	36.3	35.9	40.4	44.2	100.0
Industry	5.5	6.2	6.1	6.5	7.4	7.1	12.0	11.4	15.1	16.0	36.2
Transport	2.3	3.1	3.6	3.9	4.6	3.9	5.2	5.1	3.8	6.4	14.5
Residential/Commercial	0.4	0.6	0.7	0.8	0.9	0.8	1.0	1.0	1.1	1.2	2.8
Refined products consumption	180.3	186.4	198.9	204.1	205.6	189.1	203.2	213.1	223.8	229.1	100.0
Gasoline	23.0	25.0	27.5	29.7	31.5	29.4	32.4	36.8	39.1	42.0	18.4
Diesel	74.5	77.4	82.6	85.0	84.1	74.4	78.5	87.7	91.5	93.3	40.8
Heating Oil	5.4	6.5	6.2	6.0	5.7	6.1	5.7	6.3	5.9	5.8	2.5
Aviation Jet	2.0	2.2	4.1	4.4	4.3	2.6	3.5	4.6	5.1	5.6	2.4
LPG	21.6	23.8	25.7	27.4	29.0	30.3	31.1	31.4	32.6	34.5	15.0
Imports	258.5	277.7	298.7	295.9	299.8	270.6	283.5	302.5	312.0	325.8	100.0
Oil	243.2	256.4	276.8	271.7	274.0	242.9	258.1	281.7	286.9	296.8	91.1
Gas	15.3	21.4	21.8	24.2	25.7	27.7	25.4	20.8	25.1	29.0	8.9
Gasoline	1.0	0.5	0.2	0.7	2.3	1.4	0.7	1.1	0.8	0.2	0.1
Diesel	0.2	1.0	1.4	0.6	2.8	0.7	0.1	0.3	0.0	0.0	0.0
Heating Oil	1.1	0.9	1.2	1.4	4.4	6.2	8.7	8.2	8.7	7.5	2.3
Aviation Jet	0.0	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
LPG	9.8	12.1	12.5	14.6	16.3	18.1	18.8	20.1	20.3	22.8	7.0
Exports	64.2	66.7	76.0	72.5	70.0	60.1	67.1	63.0	64.6	67.0	100.0
Oil	64.2	66.7	76.0	72.5	70.0	60.1	67.1	63.0	64.6	67.0	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	16.7	16.2	14.8	13.5	13.4	12.2	14.2	13.8	14.2	16.4	24.5
Diesel	24.4	27.9	30.2	28.4	32.2	31.1	33.0	29.0	28.7	28.1	42.0
Heating Oil	2.7	2.2	2.4	2.1	1.5	1.1	1.6	1.8	2.0	2.4	3.6
Aviation Jet	6.1	7.7	7.7	7.9	7.4	3.8	5.5	7.7	9.1	9.3	13.8
LPG	0.2	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.9
CO₂ Emissions (Million tons CO₂)	2,257.1	2,310.9	2,485.8	2,653.3	2,636.4	2,435.0	2,581.3	2,816.0	3,066.8	3,219.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	313.3	296.3	298.4	299.2	286.2	280.6	271.2	276.5	278.4	274.6	-
Final energy intensity (toe/million \$15ppp)	81.3	76.9	75.4	73.8	71.8	73.0	68.9	69.1	68.6	67.2	-
Total energy intensity (toe/million \$15ppp)	119.6	115.2	113.6	111.0	107.3	108.5	106.3	106.8	105.2	103.4	-

*Heat is included

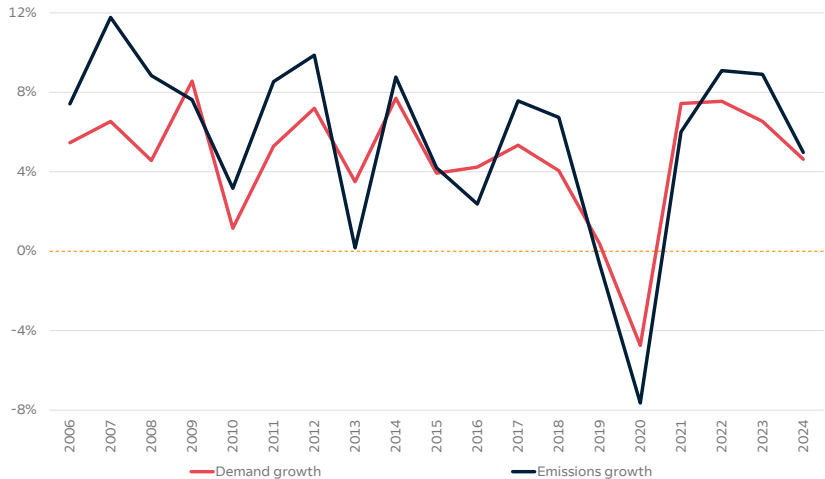
Primary energy demand mix



Electricity generation by source



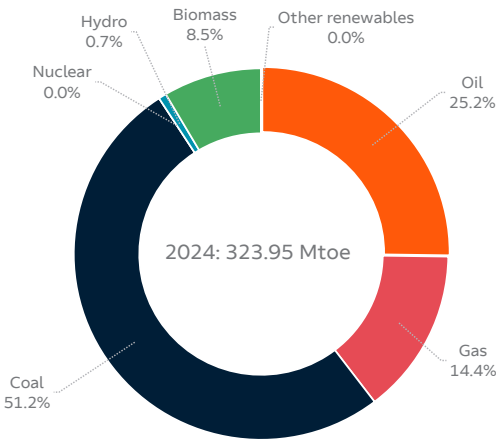
Primary energy demand and CO₂ emissions growth



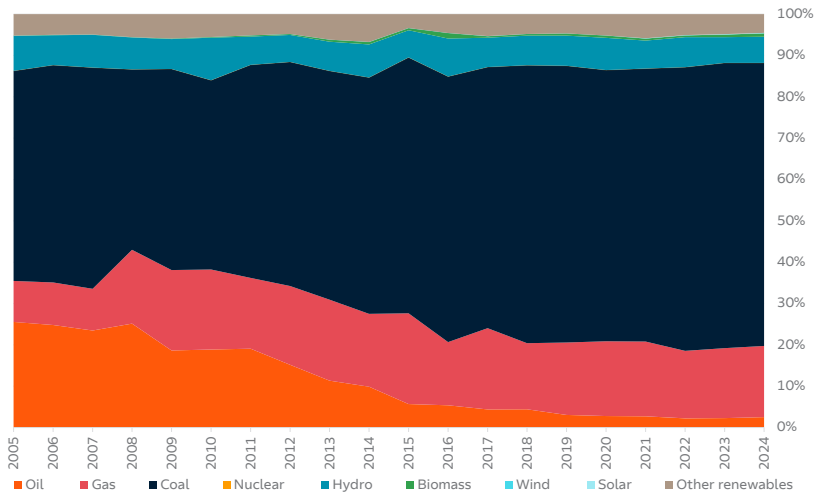
Indonesia (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	205.5	220.0	214.5	245.8	269.5	248.7	246.7	297.9	305.4	323.9	100.0
Oil	75.9	72.9	77.2	75.8	76.4	68.7	71.1	78.3	77.0	78.1	24.1
Gas	38.1	38.4	37.9	38.2	38.0	41.2	40.0	40.2	41.6	44.6	13.8
Coal	40.7	56.6	47.4	78.1	99.7	89.7	87.6	135.1	142.1	158.5	48.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.8	1.6	1.7	1.8	1.9	1.7	2.2	1.9	2.1	0.6
Biomass	42.0	41.1	39.3	40.9	42.8	35.5	34.2	30.3	28.1	26.2	8.1
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*	7.4	9.2	11.2	11.0	10.9	11.7	12.1	11.9	14.6	14.4	4.4
Total final consumption, by source	145.0	144.1	150.2	164.4	172.4	160.3	149.6	171.3	177.1	189.4	100.0
Oil	63.8	62.8	67.4	66.5	65.0	60.5	60.3	70.4	72.2	73.7	38.9
Gas	17.5	14.9	15.5	16.9	18.5	17.9	16.9	14.9	15.4	16.7	8.8
Coal	5.1	8.3	8.4	19.4	25.1	25.7	17.2	29.9	34.0	44.3	23.4
Electricity	18.3	18.6	21.0	21.7	22.2	21.5	22.2	25.3	26.6	28.2	14.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	40.4	39.6	37.9	40.0	41.6	34.7	33.0	30.9	28.9	26.5	14.0
Electricity generation, by source	23.0	20.1	22.6	23.7	24.2	23.8	24.9	29.6	31.1	33.1	100.0
Oil	1.3	1.1	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.8	2.5
Gas	5.0	3.1	4.4	3.8	4.2	4.3	4.5	4.8	5.3	5.7	17.3
Coal	14.2	12.9	14.3	15.9	16.2	15.6	16.4	20.3	21.4	22.6	68.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.8	1.6	1.7	1.8	1.9	1.7	2.2	1.9	2.1	6.3
Biomass	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.8
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.8	0.9	1.2	1.1	1.1	1.2	1.5	1.5	1.5	1.5	4.5
Total final consumption, by sector	145.0	144.1	150.2	164.4	172.4	160.3	149.6	171.3	177.1	189.4	100.0
Industry	40.5	40.7	46.3	58.7	61.2	62.8	52.5	67.7	70.8	79.9	42.2
Transport	44.0	46.1	47.6	47.3	49.6	48.9	49.8	56.8	56.3	59.4	31.4
Residential/Comercial	51.6	49.0	49.0	50.9	51.9	41.1	40.1	36.7	38.0	37.7	19.9
Oil final consumption, by sector	63.8	62.8	67.4	66.5	65.0	60.5	60.3	70.4	72.2	73.7	100.0
Industry	8.0	7.4	9.3	10.1	7.2	6.4	6.0	7.4	9.0	8.0	10.9
Transport	43.3	44.0	45.9	44.5	45.3	43.4	43.7	49.9	48.6	51.3	69.6
Residential/Comercial	9.6	8.0	9.0	8.9	9.0	8.7	8.9	9.7	10.0	9.9	13.4
Natural gas final consumption, by sector	17.5	14.9	15.5	16.9	18.5	17.9	16.9	14.9	15.4	16.7	100.0
Industry	12.1	9.8	11.3	12.3	12.1	12.5	11.4	9.5	10.0	10.8	64.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Comercial	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	1.1
Refined products consumption	63.8	62.8	67.4	66.5	65.0	60.5	60.3	70.4	72.2	73.7	100.0
Gasoline	24.9	25.6	26.4	26.2	26.9	26.1	25.5	30.8	30.6	30.3	41.2
Diesel	19.3	19.4	20.2	19.7	19.2	18.2	19.2	19.4	19.4	20.0	27.2
Heating Oil	1.5	1.8	1.9	2.0	1.5	1.2	1.2	2.6	2.6	3.1	4.2
Aviation Jet	2.8	2.9	3.6	3.4	2.9	1.9	1.7	2.4	1.6	3.7	5.0
LPG	8.9	7.3	8.2	8.3	8.5	8.2	8.7	9.6	9.7	9.6	13.0
Imports	52.2	48.9	51.2	50.1	41.9	34.7	40.1	49.8	54.6	57.2	100.0
Oil	52.2	48.9	51.2	50.1	41.9	34.7	40.1	49.8	54.6	57.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	15.5	13.1	14.4	14.8	15.4	12.5	14.0	19.0	19.0	19.5	34.1
Diesel	7.0	4.9	5.8	5.8	3.9	2.8	2.8	4.5	5.1	7.2	12.6
Heating Oil	0.4	0.5	0.4	0.8	0.3	0.2	0.2	0.1	0.2	0.1	0.2
Aviation Jet	1.0	0.9	1.8	1.3	0.2	0.0	0.0	0.4	0.2	1.5	2.6
LPG	6.6	4.9	6.0	6.1	6.3	6.7	7.0	7.4	7.6	7.6	13.2
Exports	44.5	42.1	38.2	34.5	23.8	23.7	25.6	22.0	26.0	25.2	100.0
Oil	19.9	20.7	17.0	13.4	6.9	8.5	9.4	7.4	11.7	11.2	44.4
Gas	24.6	22.6	21.2	21.0	16.9	15.2	16.3	14.6	14.3	14.0	55.6
Gasoline	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.4	0.4	1.6
Diesel	0.0	0.1	0.1	0.1	0.2	0.1	0.0	0.3	1.0	0.2	0.9
Heating Oil	3.0	1.8	2.1	2.0	2.2	2.4	1.7	4.2	6.8	6.7	26.4
Aviation Jet	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.0	0.0	0.0
LPG	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	485.8	472.1	502.9	586.4	620.3	611.4	596.2	764.0	803.5	873.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	185.1	171.2	173.6	192.5	193.8	195.1	183.4	223.2	223.5	231.3	-
Final energy intensity (toe/million \$15ppp)	52.1	49.6	49.7	51.8	51.2	49.2	44.2	47.6	46.5	47.4	-
Total energy intensity (toe/million \$15ppp)	78.3	79.8	74.0	80.7	84.2	79.4	75.9	87.0	84.9	85.8	-

*Heat is included

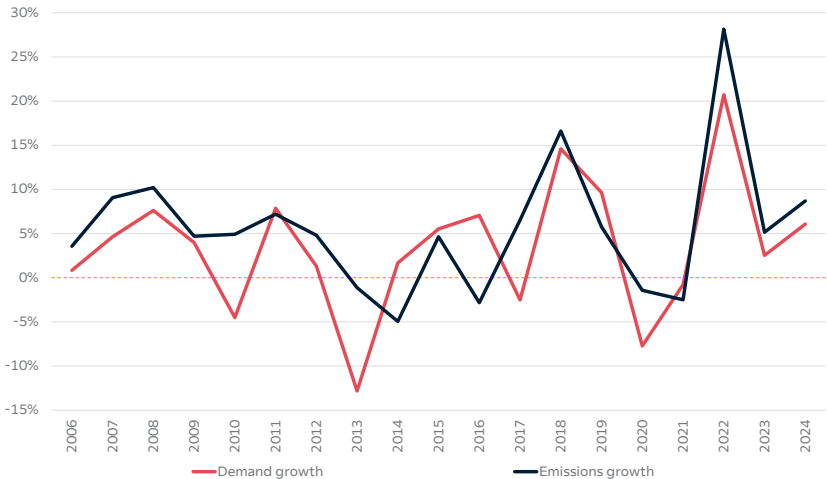
Primary energy demand mix



Electricity generation by source



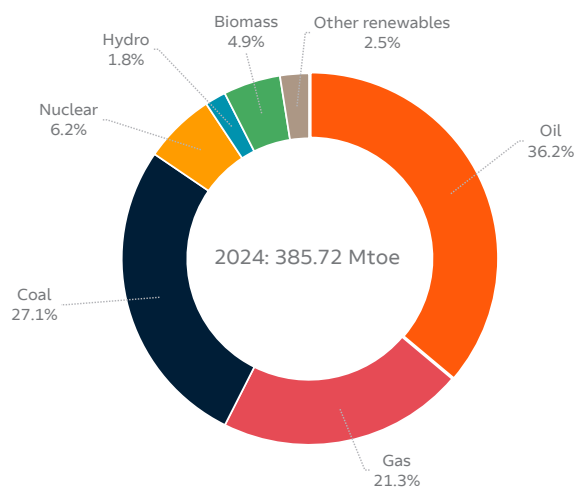
Primary energy demand and CO₂ emissions growth



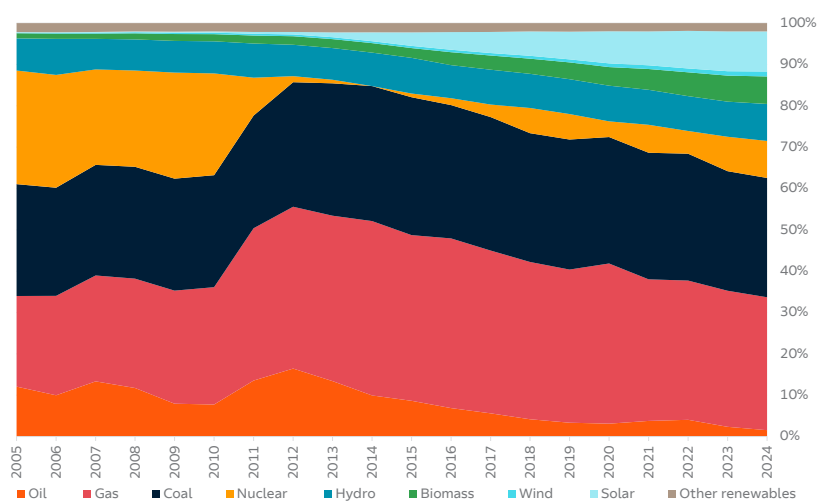
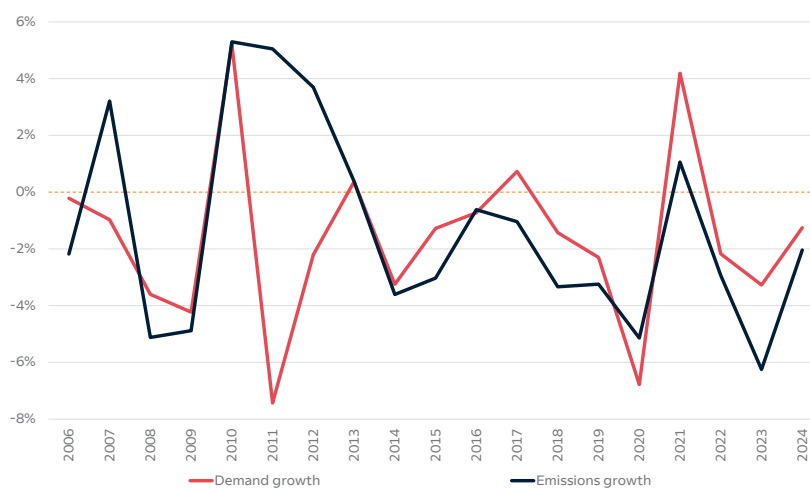
Japan (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	441.4	438.2	441.4	435.1	425.1	396.2	412.8	403.8	390.6	385.7	100.0
Oil	186.2	179.3	178.4	168.5	163.3	150.2	153.0	153.4	145.5	137.9	35.7
Gas	101.9	104.4	101.6	97.4	93.7	93.8	88.6	85.0	81.5	81.1	21.0
Coal	122.7	120.7	121.2	119.4	117.6	107.8	116.1	113.9	103.2	103.5	26.8
Nuclear	2.5	4.7	8.6	16.9	16.6	10.1	18.5	14.6	21.9	23.6	6.1
Hydro	7.5	6.8	7.2	7.0	6.9	6.8	6.8	6.6	6.6	6.9	1.8
Biomass	12.7	13.4	14.8	15.7	16.0	15.6	17.3	17.3	18.2	18.9	4.9
Other renewables	3.5	4.5	5.3	6.0	6.6	7.6	8.2	8.8	9.3	9.5	2.5
Electricity balance of trade*	4.4	4.3	4.2	4.1	4.4	4.3	4.4	4.2	4.4	4.4	1.1
Total final consumption, by source	292.3	288.1	291.7	284.7	279.1	263.1	265.6	258.9	250.9	246.6	100.0
Oil	152.4	148.9	149.2	144.8	141.3	131.1	130.6	127.0	125.3	121.0	49.1
Gas	28.7	28.3	29.6	29.1	29.2	26.9	28.2	27.7	25.7	25.4	10.3
Coal	22.7	22.0	22.7	22.1	21.6	19.6	19.9	18.6	15.8	15.4	6.2
Electricity	81.7	81.8	83.0	81.3	79.7	78.6	79.4	78.0	76.5	77.2	31.3
Heat	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.4
Biomass	6.0	6.1	6.3	6.5	6.4	6.1	6.6	6.6	6.7	6.6	2.7
Electricity generation, by source	91.0	92.1	92.9	91.7	89.3	87.5	90.3	87.6	86.8	87.0	100.0
Oil	7.9	6.3	5.2	3.8	3.0	2.7	3.4	3.5	2.0	1.3	1.5
Gas	36.5	37.8	36.6	34.9	33.1	33.9	30.9	29.5	28.6	28.0	32.2
Coal	30.4	29.7	30.0	28.6	28.1	26.7	27.7	26.9	25.1	25.1	28.9
Nuclear	0.8	1.6	2.8	5.6	5.5	3.3	6.1	4.8	7.2	7.8	8.9
Hydro	7.8	7.4	7.8	7.6	7.5	7.5	7.6	7.4	7.4	7.8	8.9
Biomass	2.2	2.9	3.2	3.4	3.6	4.0	4.6	5.1	5.5	5.8	6.7
Wind	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.8	0.9	1.0	1.2
Solar	3.0	3.9	4.7	5.4	6.0	6.8	7.4	8.0	8.4	8.5	9.7
Other renewables	2.0	2.0	2.0	1.8	1.9	1.7	1.8	1.6	1.7	1.7	2.0
Total final consumption, by sector	292.3	288.1	291.7	284.7	279.1	263.1	265.6	258.9	250.9	246.6	100.0
Industry	76.9	76.5	76.7	77.5	74.3	70.1	71.8	69.5	64.7	64.1	26.0
Transport	73.3	72.3	71.6	70.5	69.4	62.3	63.1	63.8	62.9	60.4	24.5
Residential/Commercial	93.1	92.1	94.9	91.5	90.2	89.8	88.0	86.8	85.6	86.8	35.2
Oil final consumption, by sector	152.4	148.9	149.2	144.8	141.3	131.1	130.6	127.0	125.3	121.0	100.0
Industry	11.8	11.8	11.0	11.4	10.1	10.2	10.0	10.0	9.7	9.6	8.0
Transport	71.4	70.3	69.6	68.5	67.4	60.4	61.2	61.9	61.0	58.5	48.3
Residential/Commercial	22.2	21.7	22.2	21.6	20.4	21.4	18.6	18.1	18.6	19.3	15.9
Natural gas final consumption, by sector	28.7	28.3	29.6	29.1	29.2	26.9	28.2	27.7	25.7	25.4	100.0
Industry	10.4	10.8	10.8	11.4	10.8	10.2	10.7	10.6	9.3	8.9	35.2
Transport	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Residential/Commercial	17.9	17.2	18.5	17.4	18.1	16.4	17.2	16.8	16.2	16.3	64.0
Refined products consumption	152.1	148.8	149.0	144.7	141.3	131.1	130.5	127.0	125.1	120.8	100.0
Gasoline	40.6	40.0	39.4	38.4	37.5	34.5	33.7	33.9	33.7	33.1	27.4
Diesel	38.4	38.0	38.1	37.8	36.9	35.6	35.2	35.5	34.7	32.1	26.5
Heating Oil	4.3	4.4	4.3	4.1	4.0	3.6	3.6	3.6	2.7	2.5	2.1
Aviation Jet	4.6	4.4	4.3	4.1	4.3	2.3	2.8	3.4	3.7	3.5	2.9
LPG	12.0	11.3	11.1	12.0	11.3	10.6	10.4	10.0	9.3	9.2	7.6
Imports	311.0	305.3	303.7	292.3	282.4	252.4	258.1	260.5	244.1	239.4	100.0
Oil	213.2	206.1	205.4	197.6	192.4	162.6	174.1	177.6	167.8	161.3	67.4
Gas	97.8	99.2	98.2	94.7	90.0	89.8	84.1	83.0	76.3	78.1	32.6
Gasoline	1.3	0.7	0.9	1.7	1.9	2.3	2.2	1.8	2.7	3.8	1.6
Diesel	0.5	0.4	0.5	0.6	0.8	1.3	1.6	0.4	1.0	1.6	0.7
Heating Oil	3.1	2.2	2.1	1.7	0.5	0.5	1.2	1.7	0.5	0.1	0.0
Aviation Jet	0.7	0.7	1.3	1.3	1.2	0.6	0.8	0.8	1.4	6.9	2.9
LPG	12.0	11.6	11.8	11.7	11.5	11.1	11.1	11.6	10.9	10.7	4.5
Exports	18.3	18.3	17.5	17.5	18.9	9.5	12.9	16.8	12.6	11.9	100.0
Oil	18.3	18.3	17.5	17.5	18.9	9.5	12.9	16.8	12.6	11.9	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	3.1	2.4	2.9	2.6	2.4	1.9	3.1	3.4	3.0	2.8	23.1
Diesel	8.8	8.3	8.6	8.0	9.2	3.5	5.4	7.0	4.8	4.4	37.0
Heating Oil	2.1	2.9	2.3	2.6	2.9	1.3	1.9	2.8	2.8	2.4	20.1
Aviation Jet	2.8	2.9	2.2	2.7	2.6	0.8	1.4	1.8	0.7	0.8	6.5
LPG	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2
CO₂ Emissions (Million tons CO₂)	1,134.2	1,127.2	1,115.4	1,078.3	1,043.3	989.6	1,000.1	970.7	910.0	891.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	218.1	215.1	209.4	201.1	195.3	193.3	190.5	183.1	168.9	165.3	-
Final energy intensity (toe/million \$15ppp)	47.8	47.1	46.7	45.6	44.8	44.4	43.5	42.5	40.5	40.1	-
Total energy intensity (toe/million \$15ppp)	84.9	83.6	82.8	81.1	79.6	77.4	78.6	76.2	72.5	71.5	-

*Heat is included

Primary energy demand mix



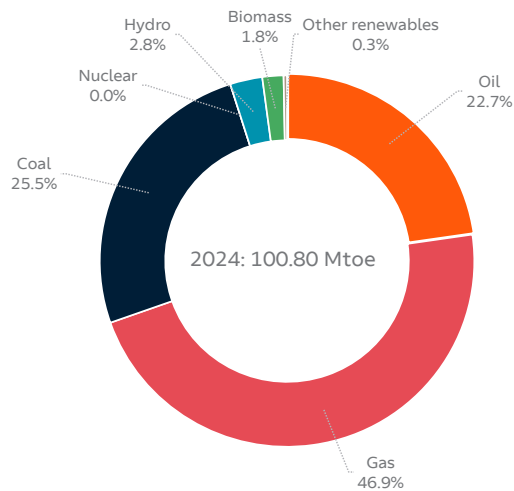
Electricity generation by source

Primary energy demand and CO₂ emissions growth

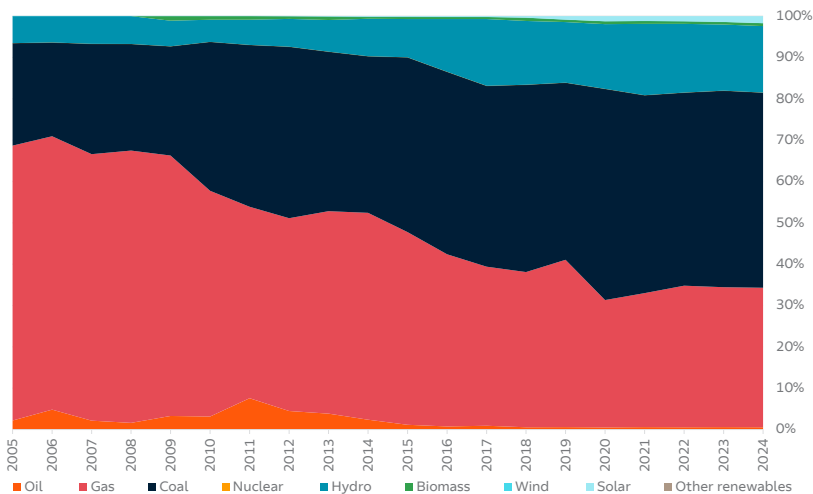
Malaysia (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	82.6	82.0	83.9	91.9	98.3	90.5	96.1	100.1	98.5	100.8	100.0
Oil	28.8	28.1	29.1	29.1	34.0	24.9	25.7	25.2	21.6	22.9	22.7
Gas	33.7	32.1	30.8	36.8	39.2	36.6	42.6	46.8	46.3	47.3	47.0
Coal	17.6	18.9	20.8	22.3	21.2	24.9	23.2	23.6	26.1	25.7	25.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.7	2.3	2.3	2.3	2.3	2.7	2.7	2.7	2.8	2.8
Biomass	1.2	1.2	1.0	1.4	1.6	1.7	1.8	1.8	1.8	1.8	1.8
Other renewables	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3
Electricity balance of trade*	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Total final consumption, by source	50.4	54.4	59.3	60.7	64.7	56.3	56.7	59.9	57.6	59.0	100.0
Oil	27.7	28.2	28.8	27.9	30.0	24.5	23.2	25.4	21.7	23.1	39.1
Gas	8.6	11.1	15.1	17.0	18.6	16.6	17.8	18.2	17.8	18.1	30.6
Coal	1.8	1.8	1.8	1.9	1.2	0.7	0.9	0.8	1.9	0.9	1.6
Electricity	11.4	12.4	12.6	13.1	13.6	13.1	13.4	14.1	14.8	15.5	26.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.9	0.9	0.9	0.9	1.2	1.3	1.4	1.4	1.4	1.4	2.3
Electricity generation, by source	12.9	13.5	14.1	14.7	15.3	15.0	15.5	16.1	16.6	17.5	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Gas	6.0	5.6	5.4	5.5	6.2	4.6	5.0	5.5	5.6	5.9	33.7
Coal	5.5	5.9	6.2	6.6	6.6	7.7	7.4	7.5	7.9	8.3	47.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.2	1.7	2.3	2.3	2.3	2.3	2.7	2.7	2.7	2.8	16.1
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.3	1.7
Other renewables	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0
Total final consumption, by sector	50.4	54.4	59.3	60.7	64.7	56.3	56.7	59.9	57.6	59.0	100.0
Industry	13.4	15.3	16.6	18.1	18.3	16.9	18.6	19.1	20.2	19.9	33.7
Transport	20.7	21.3	20.7	20.7	22.6	17.9	17.5	19.1	15.9	17.2	29.1
Residential/Commercial	8.1	8.6	8.9	8.3	8.9	8.2	8.6	9.3	9.6	9.9	16.8
Oil final consumption, by sector	27.7	28.2	28.8	27.9	30.0	24.5	23.2	25.4	21.7	23.1	100.0
Industry	2.0	2.3	2.5	2.3	2.7	2.5	2.4	2.6	2.4	2.7	11.7
Transport	20.1	20.7	20.2	20.2	21.9	17.0	16.6	18.2	15.0	16.3	70.7
Residential/Commercial	1.5	1.5	1.9	1.2	1.6	1.0	1.5	1.6	1.5	1.4	6.0
Natural gas final consumption, by sector	8.6	11.1	15.1	17.0	18.6	16.6	17.8	18.2	17.8	18.1	100.0
Industry	4.3	5.4	6.1	7.4	7.7	7.4	8.7	8.9	8.7	8.8	48.6
Transport	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Refined products consumption	27.7	28.2	28.8	27.9	30.0	24.5	23.2	25.4	21.7	23.1	100.0
Gasoline	12.8	13.4	13.4	13.0	13.8	11.2	10.5	11.5	8.9	9.3	40.3
Diesel	9.0	8.9	9.4	9.3	10.6	8.5	8.8	9.6	8.6	9.7	42.2
Heating Oil	0.5	0.5	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.4	1.7
Aviation Jet	0.6	0.6	0.7	0.6	0.8	0.3	0.2	0.4	0.5	0.6	2.6
LPG	2.3	3.5	3.6	3.3	3.5	2.9	2.7	2.9	2.8	2.4	10.6
Imports	29.6	32.3	29.6	35.2	34.9	27.9	33.1	44.2	45.4	45.5	100.0
Oil	22.5	26.1	23.3	28.9	27.7	19.5	25.0	32.1	36.7	36.6	80.4
Gas	7.0	6.1	6.3	6.3	7.3	8.5	8.0	12.0	8.7	8.9	19.6
Gasoline	7.6	8.6	5.2	10.6	8.8	6.9	11.1	13.1	12.6	13.5	29.7
Diesel	4.6	3.9	5.2	6.9	6.2	2.8	5.7	5.8	6.9	5.4	11.8
Heating Oil	0.9	0.0	0.2	0.1	0.1	0.2	0.0	0.2	0.2	0.2	0.5
Aviation Jet	0.6	1.5	1.2	0.6	0.6	0.8	0.4	0.4	0.4	0.4	0.9
LPG	0.4	0.5	0.4	0.5	0.5	0.5	0.4	1.0	1.1	0.9	1.9
Exports	51.2	57.5	53.4	55.1	51.7	49.8	54.1	65.7	62.8	62.4	100.0
Oil	25.9	32.0	25.6	30.5	22.2	22.4	28.2	36.0	36.9	35.5	56.8
Gas	25.3	25.5	27.8	24.6	29.5	27.3	25.9	29.6	25.9	27.0	43.2
Gasoline	0.4	0.5	0.3	3.1	0.3	1.8	7.8	8.6	8.7	9.5	15.2
Diesel	5.2	4.7	4.9	6.8	5.2	3.9	5.3	6.7	6.9	5.9	9.4
Heating Oil	1.4	0.6	0.6	1.3	0.4	0.4	0.6	0.7	0.6	0.6	1.0
Aviation Jet	0.6	1.1	1.4	0.9	0.7	1.2	1.6	1.4	1.3	1.3	2.1
LPG	0.3	0.4	0.2	0.5	0.3	0.5	0.8	0.5	0.6	0.6	1.0
CO₂ Emissions (Million tons CO₂)	220.4	219.1	220.6	221.6	231.5	223.5	226.1	240.5	243.3	244.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	287.7	273.8	260.5	249.6	249.8	255.0	249.8	244.0	238.4	227.8	-
Final energy intensity (toe/million \$15ppp)	56.2	57.0	55.8	54.3	54.8	50.0	50.5	49.4	45.7	44.9	-
Total energy intensity (toe/million \$15ppp)	107.8	102.5	99.1	103.5	106.0	103.2	106.2	101.6	96.5	94.0	-

*Heat is included

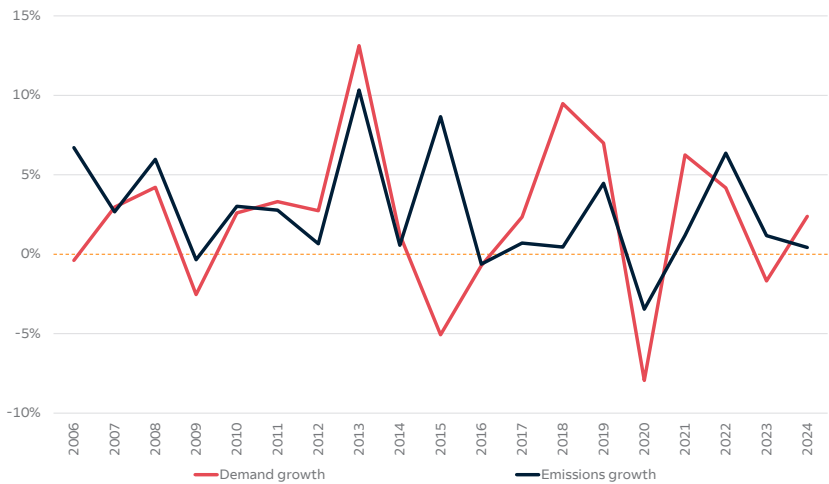
Primary energy demand mix



Electricity generation by source



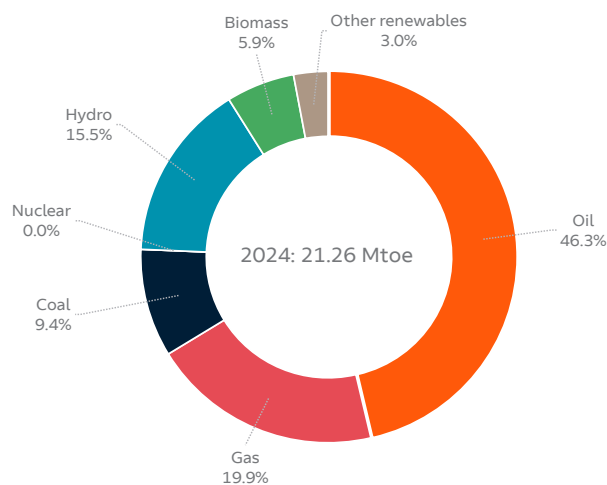
Primary energy demand and CO₂ emissions growth



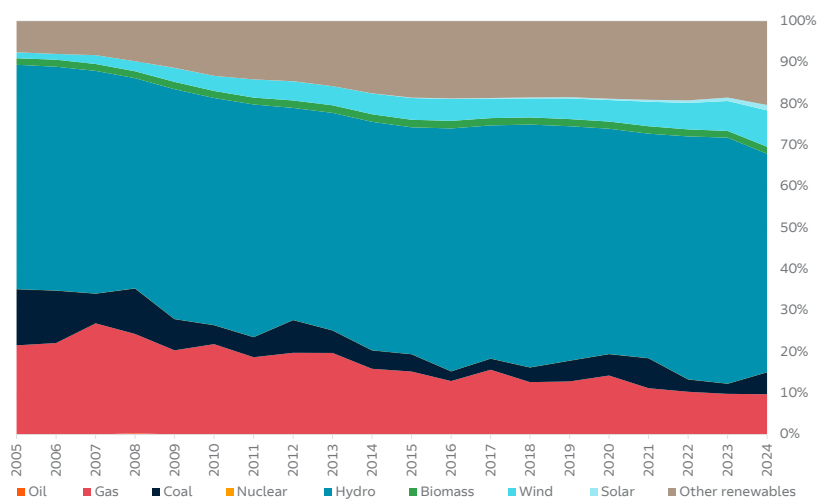
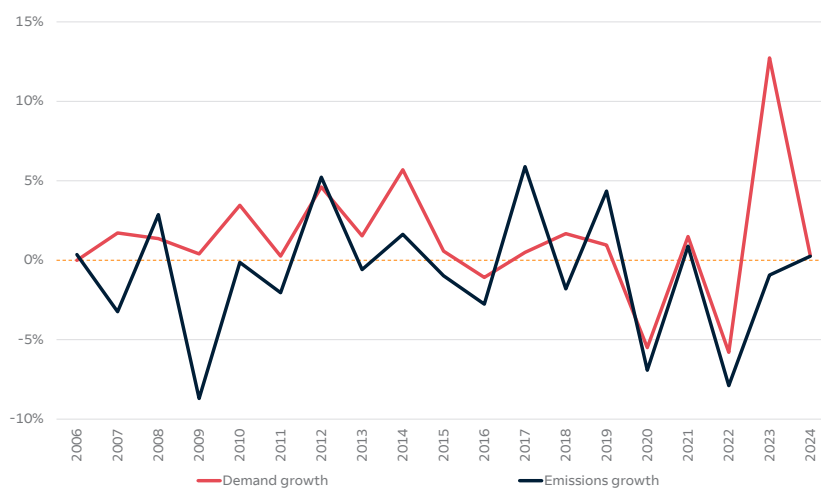
New Zealand (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	20.4	20.2	20.3	20.6	20.8	19.7	20.0	18.8	21.2	21.3	100.0
Oil	6.8	6.6	6.7	7.2	7.1	6.4	6.8	6.4	6.5	6.1	28.8
Gas	4.1	4.2	4.2	3.8	4.0	3.9	3.3	3.1	3.2	2.6	12.4
Coal	1.4	1.2	1.2	1.2	1.4	1.3	1.6	1.0	0.9	1.2	5.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.3	2.3	2.0	9.6
Biomass	1.2	1.2	1.2	1.2	1.1	1.1	1.1	0.9	0.8	0.8	3.7
Other renewables	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	1.8
Electricity balance of trade*	4.6	4.5	4.6	4.7	4.8	4.8	4.9	4.9	7.3	8.0	37.7
Total final consumption, by source	13.9	14.2	14.3	14.0	14.5	13.5	13.4	13.3	13.3	12.6	100.0
Oil	6.2	6.3	6.6	6.7	6.8	6.2	6.4	6.4	6.5	6.4	50.7
Gas	2.7	2.9	2.8	2.5	2.8	2.6	2.3	2.1	2.3	1.7	13.2
Coal	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	3.5
Electricity	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3	3.3	3.4	26.6
Heat	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5
Biomass	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6	4.5
Electricity generation, by source	3.8	3.8	3.8	3.8	3.9	3.8	3.8	3.8	3.8	3.9	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.6	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	9.7
Coal	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.2	5.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.2	2.2	2.3	2.2	2.1	2.1	2.3	2.3	2.0	52.8
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.7
Wind	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	8.8
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3
Other renewables	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	20.3
Total final consumption, by sector	13.9	14.2	14.3	14.0	14.5	13.5	13.4	13.3	13.3	12.6	100.0
Industry	4.1	4.1	4.1	4.0	4.2	3.9	3.7	3.7	3.5	3.2	25.8
Transport	4.8	4.9	5.2	5.3	5.1	4.7	4.9	4.9	5.0	4.9	39.3
Residential/Commercial	2.8	2.8	2.8	2.8	2.9	2.8	2.9	2.9	2.9	2.9	23.3
Oil final consumption, by sector	6.2	6.3	6.6	6.7	6.8	6.2	6.4	6.4	6.5	6.4	100.0
Industry	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.4	6.8
Transport	4.8	4.9	5.2	5.3	5.1	4.6	4.9	4.9	5.0	4.9	77.0
Residential/Commercial	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.9
Natural gas final consumption, by sector	2.7	2.9	2.8	2.5	2.8	2.6	2.3	2.1	2.3	1.7	100.0
Industry	1.2	1.3	1.3	1.2	1.4	1.2	1.1	1.0	1.1	0.9	52.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	19.5
Refined products consumption	6.2	6.3	6.6	6.7	6.8	6.2	6.4	6.4	6.5	6.4	100.0
Gasoline	2.4	2.5	2.6	2.5	2.5	2.3	2.3	2.3	2.3	2.3	36.1
Diesel	2.9	2.9	3.1	3.2	3.2	3.1	3.3	3.3	3.3	3.3	50.9
Heating Oil	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4
Aviation Jet	0.3	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.4	0.3	4.7
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.4
Imports	7.6	8.2	8.0	8.9	8.2	7.1	6.6	7.0	7.6	7.6	100.0
Oil	7.6	8.2	8.0	8.9	8.2	7.1	6.6	7.0	7.6	7.6	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.1	1.0	1.1	1.2	1.0	1.2	1.2	2.0	2.4	2.2	28.8
Diesel	0.7	1.1	1.0	1.4	1.3	1.6	1.5	3.0	3.4	3.3	43.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	2.8
Aviation Jet	0.1	0.2	0.3	0.5	0.2	0.1	0.1	0.7	1.3	1.5	19.4
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.9
Exports	2.0	1.7	1.6	1.2	1.2	0.9	0.8	1.0	0.8	0.7	100.0
Oil	2.0	1.7	1.6	1.2	1.2	0.9	0.8	1.0	0.8	0.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	31.4	30.6	32.4	31.8	33.2	30.9	31.2	28.7	28.4	28.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	181.7	170.3	174.4	165.4	168.7	157.6	152.1	136.3	134.1	135.1	-
Final energy intensity (toe/million \$15ppp)	71.9	69.8	68.9	65.9	66.2	61.9	59.8	58.0	57.3	56.3	-
Total energy intensity (toe/million \$15ppp)	117.8	112.3	109.2	107.3	105.8	100.4	97.5	89.3	100.0	100.8	-

*Heat is included

Primary energy demand mix



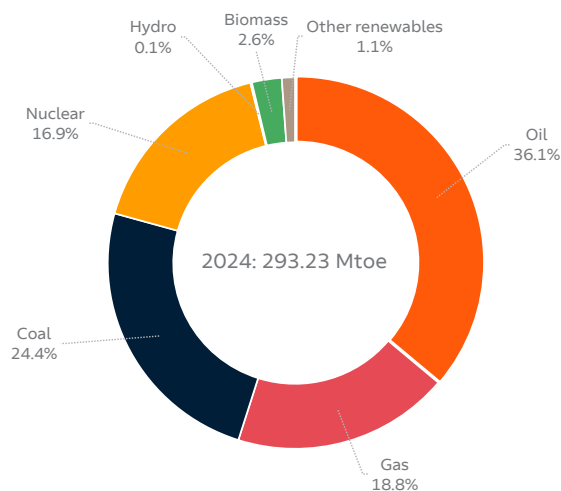
Electricity generation by source

Primary energy demand and CO₂ emissions growth

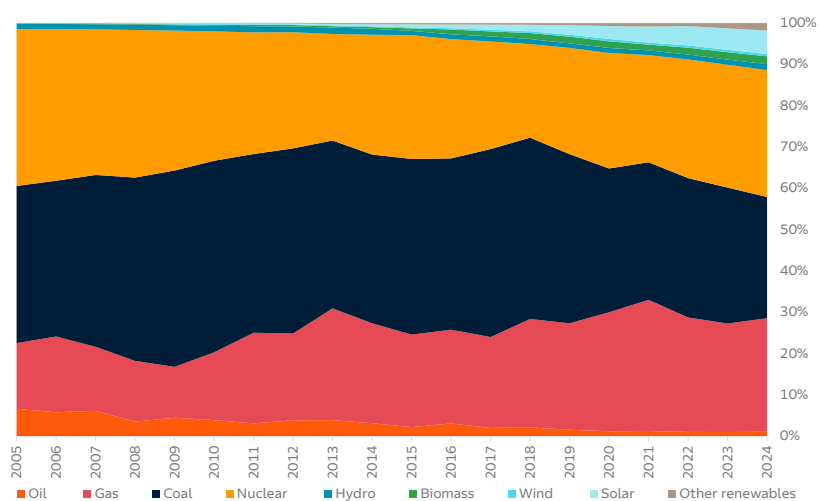
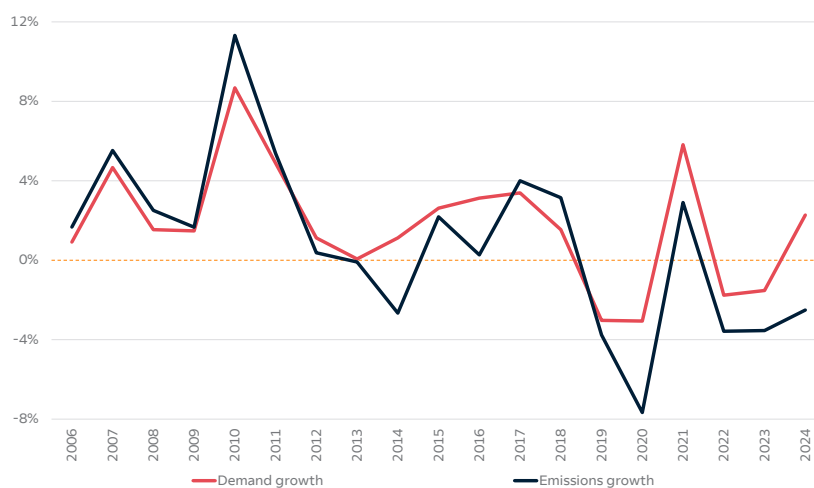
South Korea (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	275.2	283.8	293.4	297.9	288.9	280.1	296.3	291.1	286.7	293.2	100.0
Oil	102.8	109.9	111.1	112.4	106.3	102.9	113.2	104.0	102.3	105.5	36.0
Gas	39.6	41.0	43.7	49.6	48.5	48.5	53.6	53.3	51.1	54.8	18.7
Coal	83.0	83.1	91.3	92.4	87.3	77.5	78.7	77.6	74.7	71.3	24.3
Nuclear	42.9	42.2	38.7	34.8	38.0	41.7	41.2	45.9	47.0	49.2	16.8
Hydro	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.1
Biomass	5.9	6.4	7.2	7.0	6.6	6.5	6.3	6.6	7.1	7.5	2.6
Other renewables	0.5	0.6	0.8	1.0	1.3	1.8	2.3	2.8	3.0	3.3	1.1
Electricity balance of trade*	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.7	1.0	1.3	0.5
Total final consumption, by source	176.2	180.5	186.5	186.0	185.5	179.3	187.5	183.3	177.7	180.5	100.0
Oil	90.5	94.3	97.6	94.9	97.7	92.9	97.6	93.9	89.2	91.8	50.8
Gas	19.5	20.0	21.2	22.0	21.5	21.8	22.6	23.0	22.0	22.7	12.6
Coal	14.4	12.5	12.0	13.0	11.3	10.5	11.2	10.3	10.1	9.2	5.1
Electricity	42.6	44.5	45.0	45.7	45.0	44.1	46.1	46.6	46.5	46.6	25.8
Heat	4.5	5.0	6.0	6.2	6.2	6.3	6.5	6.0	6.2	6.3	3.5
Biomass	4.5	4.2	4.7	4.2	3.7	3.7	3.5	3.5	3.7	3.9	2.2
Electricity generation, by source	47.3	48.3	49.0	50.7	48.9	49.4	52.4	52.8	52.2	52.9	100.0
Oil	1.1	1.5	1.0	1.1	0.8	0.6	0.7	0.6	0.6	0.6	1.2
Gas	10.6	11.0	10.8	13.3	12.6	14.2	16.6	14.6	13.7	14.5	27.5
Coal	20.1	20.0	22.3	22.2	20.0	17.2	17.5	17.8	17.2	15.5	29.3
Nuclear	14.2	13.9	12.8	11.5	12.5	13.8	13.6	15.1	15.5	16.2	30.7
Hydro	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.8	1.5
Biomass	0.3	0.6	0.6	0.7	0.8	0.8	0.7	0.9	0.9	1.0	1.9
Wind	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.6
Solar	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	2.7	3.0	5.7
Other renewables	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.7	0.9	1.8
Total final consumption, by sector	176.2	180.5	186.5	186.0	185.5	179.3	187.5	183.3	177.7	180.5	100.0
Industry	51.0	50.0	51.9	52.8	50.4	49.1	52.0	49.9	49.5	49.6	27.5
Transport	34.0	35.0	35.7	35.2	36.6	34.2	35.7	35.6	34.6	34.0	18.8
Residential/Commercial	39.4	41.6	42.1	42.7	41.3	41.4	41.7	42.1	41.3	41.2	22.8
Oil final consumption, by sector	90.5	94.3	97.6	94.9	97.7	92.9	97.6	93.9	89.2	91.8	100.0
Industry	3.3	3.5	3.5	3.6	3.6	4.1	4.3	3.0	3.1	2.9	3.2
Transport	32.3	33.2	33.9	33.3	34.7	32.4	33.9	33.7	32.7	32.1	34.9
Residential/Commercial	5.3	5.8	5.5	5.2	4.7	4.8	4.4	4.2	4.1	4.1	4.4
Natural gas final consumption, by sector	19.5	20.0	21.2	22.0	21.5	21.8	22.6	23.0	22.0	22.7	100.0
Industry	7.2	7.0	7.6	7.4	7.4	7.1	7.7	7.9	7.7	8.7	38.5
Transport	1.2	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.9	0.8	3.7
Residential/Commercial	11.2	11.9	12.5	13.2	12.8	12.8	13.0	13.5	12.5	12.2	53.8
Refined products consumption	90.5	94.3	97.6	94.9	97.7	92.9	97.6	93.9	89.2	91.8	100.0
Gasoline	9.4	9.7	9.8	9.8	10.2	10.0	10.5	10.9	11.1	11.7	12.8
Diesel	21.7	22.1	22.9	22.0	23.1	21.9	21.4	20.8	20.5	19.8	21.6
Heating Oil	1.7	1.8	1.6	1.4	1.2	1.0	0.9	1.0	1.0	0.8	0.9
Aviation Jet	1.7	1.7	1.8	1.8	1.5	1.4	2.1	2.1	1.3	0.7	0.7
LPG	8.4	9.1	8.9	9.4	10.5	10.3	9.9	10.5	9.8	11.0	12.0
Imports	218.7	228.8	236.5	247.2	237.3	223.4	234.0	238.6	235.2	243.5	100.0
Oil	179.5	189.5	192.4	195.5	189.4	176.4	180.0	184.0	183.3	189.0	77.6
Gas	39.2	39.3	44.1	51.7	47.9	47.0	54.0	54.6	51.9	54.5	22.4
Gasoline	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Diesel	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0
Heating Oil	6.8	6.8	5.7	6.3	4.6	4.3	5.3	3.0	4.5	6.0	2.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	5.8	8.0	7.0	7.2	8.7	9.2	8.8	9.7	8.9	9.5	3.9
Exports	62.6	64.1	66.6	70.5	69.1	61.5	58.6	65.7	65.3	67.9	100.0
Oil	62.6	64.1	66.6	70.5	69.1	61.5	58.6	65.7	65.3	67.9	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	9.8	9.4	10.1	10.8	10.8	9.1	12.1	12.3	12.5	14.1	20.8
Diesel	23.5	23.9	24.0	26.0	26.6	27.2	24.7	27.7	26.8	27.9	41.1
Heating Oil	1.5	1.9	2.4	3.9	2.5	1.9	1.2	1.8	0.9	0.7	1.0
Aviation Jet	14.4	15.0	16.1	15.5	15.4	10.8	8.5	11.5	12.4	12.5	18.3
LPG	0.1	0.2	0.2	0.5	0.5	0.5	0.3	0.1	0.1	0.1	0.1
CO₂ Emissions (Million tons CO₂)	591.0	592.6	616.3	635.7	611.8	564.9	581.3	560.6	540.7	527.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	305.6	297.7	300.1	300.8	283.2	263.3	259.8	244.1	232.3	221.0	-
Final energy intensity (toe/million \$15ppp)	66.3	65.3	64.9	63.5	61.0	59.8	59.3	57.0	55.3	53.7	-
Total energy intensity (toe/million \$15ppp)	142.3	142.6	142.9	141.0	133.7	130.6	132.4	126.8	123.2	122.9	-

*Heat is included

Primary energy demand mix



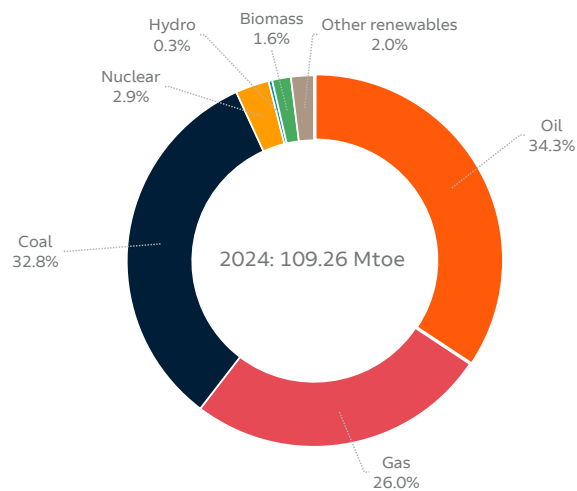
Electricity generation by source

Primary energy demand and CO₂ emissions growth

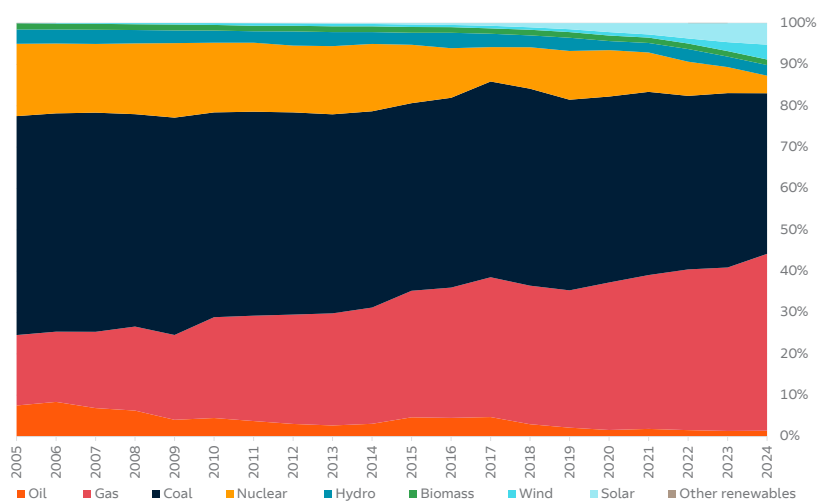
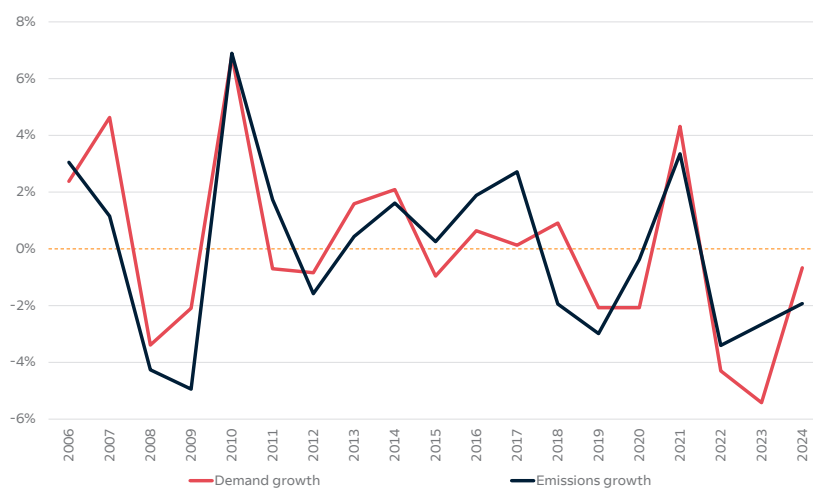
Taiwan (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	119.5	120.2	120.4	121.5	119.0	116.5	121.5	116.3	110.0	109.3	100.0
Oil	47.0	47.6	47.4	46.8	43.9	42.7	43.5	40.1	38.1	37.5	34.3
Gas	19.2	20.1	22.1	22.3	22.0	23.7	25.8	26.8	26.4	28.4	26.0
Coal	41.3	41.7	42.6	42.6	41.9	39.1	42.0	39.7	37.0	35.8	32.8
Nuclear	9.5	8.3	5.8	7.2	8.4	8.2	7.2	6.2	4.6	3.2	2.9
Hydro	0.4	0.5	0.4	0.4	0.4	0.2	0.3	0.5	0.3	0.3	0.3
Biomass	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.6
Other renewables	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	2.0
Electricity balance of trade*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total final consumption, by source	74.6	75.1	74.7	75.9	73.4	74.2	77.7	72.0	69.0	70.0	100.0
Oil	42.0	41.9	41.3	41.9	39.5	39.8	41.4	36.6	34.4	34.7	49.6
Gas	3.5	3.7	4.0	4.3	4.4	4.6	5.1	5.3	5.3	5.5	7.9
Coal	7.2	7.3	6.9	5.8	5.8	5.6	5.9	5.3	4.6	4.6	6.6
Electricity	19.9	20.3	20.8	21.3	21.2	21.7	22.7	22.4	22.2	22.7	32.5
Heat	1.5	1.4	1.4	2.2	2.0	2.0	2.1	1.9	1.9	1.9	2.7
Biomass	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.7
Electricity generation, by source	22.2	22.7	23.2	23.7	23.6	24.1	25.0	24.8	24.3	24.6	100.0
Oil	1.0	1.0	1.1	0.7	0.5	0.4	0.5	0.4	0.3	0.3	1.4
Gas	6.8	7.2	7.9	7.9	7.8	8.6	9.3	9.6	9.6	10.5	42.8
Coal	10.1	10.4	11.0	11.3	10.9	10.8	11.1	10.4	10.2	9.6	38.9
Nuclear	3.1	2.7	1.9	2.4	2.8	2.7	2.4	2.0	1.5	1.0	4.3
Hydro	0.6	0.8	0.8	0.7	0.8	0.5	0.6	0.8	0.6	0.6	2.6
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	0.2	0.2	0.2	0.3	0.5	0.9	3.6
Solar	0.1	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.1	1.3	5.2
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	74.6	75.1	74.7	75.9	73.4	74.2	77.7	72.0	69.0	70.0	100.0
Industry	24.5	24.8	24.8	25.5	25.0	25.1	27.0	25.6	24.3	24.8	35.5
Transport	13.8	14.1	14.0	13.6	13.7	13.9	13.1	13.5	13.5	13.3	19.1
Residential/Commercial	11.3	11.6	11.6	11.3	11.3	11.6	11.7	11.7	11.8	11.9	17.1
Oil final consumption, by sector	42.0	41.9	41.3	41.9	39.5	39.8	41.4	36.6	34.4	34.7	100.0
Industry	2.2	1.9	1.9	1.9	1.5	1.3	1.4	1.1	1.0	1.0	3.0
Transport	13.6	14.0	13.9	13.5	13.6	13.7	13.0	13.3	13.3	13.2	38.0
Residential/Commercial	1.8	1.8	1.7	1.6	1.6	1.7	1.6	1.6	1.6	1.6	4.8
Natural gas final consumption, by sector	3.5	3.7	4.0	4.3	4.4	4.6	5.1	5.3	5.3	5.5	100.0
Industry	2.3	2.5	2.8	3.1	3.2	3.3	3.8	4.0	3.7	3.8	69.6
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	20.0
Refined products consumption	42.0	41.9	41.3	41.9	39.5	39.8	41.4	36.6	34.4	34.7	100.0
Gasoline	8.8	9.1	9.0	8.7	8.7	8.9	8.2	8.4	8.5	8.3	23.8
Diesel	5.3	5.4	5.3	5.3	5.5	5.5	5.5	5.6	5.6	5.8	16.6
Heating Oil	2.2	2.0	1.9	1.6	1.3	1.0	1.0	0.7	0.6	0.5	1.5
Aviation Jet	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
LPG	2.7	3.3	2.6	3.1	3.2	2.6	1.8	1.9	2.1	2.2	6.5
Imports	88.8	90.8	92.5	93.5	91.4	84.3	88.0	88.0	84.2	85.3	100.0
Oil	69.8	71.1	70.5	71.1	69.3	60.7	62.0	61.2	57.8	56.9	66.8
Gas	18.9	19.7	22.0	22.4	22.1	23.7	26.0	26.7	26.4	28.4	33.2
Gasoline	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.4	0.5
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	1.1	1.8	2.6	2.3	1.3	0.6	0.9	0.9	0.6	1.1	1.3
Aviation Jet	0.2	0.2	0.1	0.2	0.0	0.1	0.0	0.1	0.1	0.2	0.2
LPG	1.7	2.1	1.5	2.1	2.1	1.8	0.6	0.9	1.3	1.5	1.8
Exports	18.8	19.2	18.8	20.2	21.3	14.0	15.5	18.1	16.0	15.7	100.0
Oil	18.8	19.2	18.8	20.2	21.3	14.0	15.5	18.1	16.0	15.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	4.8	5.3	4.9	4.6	4.1	2.0	3.6	3.8	3.5	3.5	22.3
Diesel	10.2	10.1	9.3	10.6	11.2	7.4	7.5	9.6	8.6	8.0	51.3
Heating Oil	1.0	1.4	1.6	2.0	1.9	1.7	2.0	1.7	1.2	1.9	11.9
Aviation Jet	1.2	1.1	1.0	1.1	1.1	0.9	0.4	1.1	0.8	0.7	4.2
LPG	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	282.5	287.8	295.7	289.9	281.3	280.2	289.6	279.7	272.3	267.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	528.5	527.1	522.3	497.7	468.5	451.3	437.1	411.2	395.8	372.1	-
Final energy intensity (toe/million \$15ppp)	94.4	94.0	90.4	88.2	84.9	82.8	79.5	76.0	74.2	72.0	-
Total energy intensity (toe/million \$15ppp)	223.5	220.1	212.6	208.5	198.1	187.6	183.4	170.9	159.9	152.3	-

*Heat is included

Primary energy demand mix



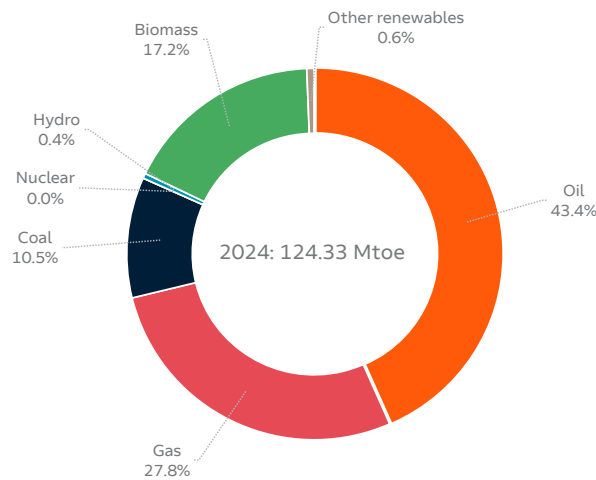
Electricity generation by source

Primary energy demand and CO₂ emissions growth

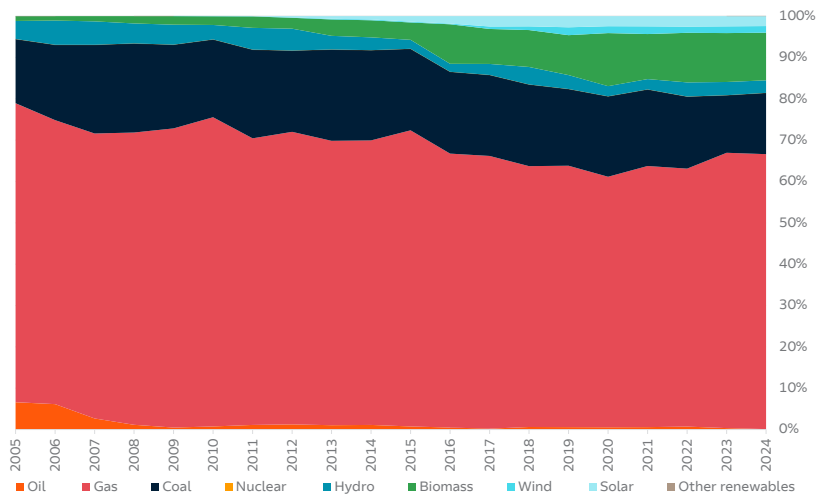
Thailand (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	136.2	134.1	134.4	137.4	137.3	130.5	128.5	124.8	126.9	124.3	100.0
Oil	54.6	56.2	56.5	58.0	57.8	56.3	55.0	54.6	53.6	52.7	42.4
Gas	37.8	36.9	36.0	36.5	37.0	35.1	35.4	31.3	34.2	33.8	27.2
Coal	17.3	15.9	16.9	16.6	15.1	15.8	16.2	14.4	12.6	12.8	10.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.5	0.5	0.5	0.4
Biomass	25.0	22.9	22.1	22.8	24.1	19.8	18.1	20.3	22.6	20.9	16.8
Other renewables	0.2	0.3	0.5	0.5	0.8	0.7	0.7	0.7	0.8	0.8	0.6
Electricity balance of trade*	1.1	1.6	2.0	2.2	2.0	2.3	2.7	2.9	2.6	2.8	2.2
Total final consumption, by source	95.8	94.8	96.4	100.3	101.3	95.7	92.1	96.2	96.7	95.9	100.0
Oil	52.2	53.7	54.1	59.5	59.7	57.7	56.7	55.1	55.5	55.3	57.6
Gas	7.2	7.2	7.0	7.7	7.4	5.6	5.7	7.8	7.5	7.4	7.7
Coal	8.0	6.0	7.4	4.5	4.6	5.2	4.1	5.3	4.4	3.6	3.7
Electricity	15.0	15.9	15.9	16.2	16.6	16.9	17.1	18.7	19.6	20.2	21.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	13.5	12.0	11.9	12.5	13.0	10.3	8.5	9.2	9.6	9.5	9.9
Electricity generation, by source	15.2	16.2	15.6	15.8	16.5	16.3	16.1	17.1	18.4	18.9	100.0
Oil	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
Gas	10.9	10.7	10.3	9.9	10.4	9.9	10.2	10.7	12.3	12.6	66.5
Coal	3.0	3.2	3.1	3.1	3.1	3.2	3.0	3.0	2.6	2.8	14.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.3	0.3	0.4	0.7	0.6	0.4	0.4	0.6	0.6	0.6	3.0
Biomass	0.6	1.5	1.3	1.4	1.6	2.1	1.8	2.1	2.2	2.2	11.6
Wind	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	1.6
Solar	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	2.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	95.8	94.8	96.4	100.3	101.3	95.7	92.1	96.2	96.7	95.9	100.0
Industry	29.4	29.4	29.2	28.7	28.9	25.5	24.0	29.6	28.5	27.4	28.6
Transport	23.6	24.9	27.1	29.7	30.7	30.1	28.0	29.9	31.8	31.9	33.3
Residential/Commercial	16.6	14.9	14.9	13.1	13.6	14.2	13.8	14.4	15.4	16.1	16.8
Oil final consumption, by sector	52.2	53.7	54.1	59.5	59.7	57.7	56.7	55.1	55.5	55.3	100.0
Industry	5.7	6.4	5.0	4.9	4.8	4.0	4.1	3.8	3.8	3.8	6.8
Transport	19.6	21.1	23.3	25.5	26.4	26.3	24.7	26.7	28.4	28.7	51.9
Residential/Commercial	2.3	2.3	2.4	2.4	2.3	2.2	2.3	2.3	2.3	2.3	4.2
Natural gas final consumption, by sector	7.2	7.2	7.0	7.7	7.4	5.6	5.7	7.8	7.5	7.4	100.0
Industry	3.0	3.3	3.3	3.8	3.8	3.7	4.1	6.7	6.5	6.5	88.3
Transport	2.5	2.3	2.0	1.9	1.7	1.2	1.0	1.1	1.0	0.9	11.7
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	51.6	53.1	53.5	58.9	59.0	57.1	56.1	54.6	55.0	54.7	100.0
Gasoline	7.2	7.9	8.2	8.8	9.1	9.0	8.2	8.5	8.9	8.9	16.3
Diesel	18.1	18.7	19.1	20.9	21.8	21.2	20.4	21.4	22.3	22.3	40.7
Heating Oil	0.5	0.8	0.7	0.7	0.6	0.7	0.7	0.6	0.5	0.5	0.9
Aviation Jet	0.9	0.8	0.8	0.8	0.8	0.3	0.2	0.4	1.1	1.3	2.4
LPG	7.2	6.6	6.8	7.3	7.2	6.3	6.6	7.0	7.1	7.3	13.4
Imports	63.1	63.2	66.5	70.4	67.3	65.4	66.5	70.0	74.1	72.1	100.0
Oil	51.1	51.6	54.1	56.9	53.9	51.6	51.9	55.9	56.7	55.8	77.4
Gas	12.0	11.6	12.4	13.6	13.4	13.8	14.6	14.1	17.4	16.3	22.6
Gasoline	0.6	1.2	1.4	1.2	1.7	1.1	0.0	0.4	0.7	0.0	0.0
Diesel	0.1	0.7	0.7	0.5	2.1	0.0	0.2	0.9	0.2	0.3	0.5
Heating Oil	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.1
LPG	1.5	0.5	0.7	0.8	0.6	0.6	0.6	1.7	1.8	1.5	2.1
Exports	13.9	12.7	13.9	14.9	11.7	12.0	12.2	9.4	10.7	11.2	100.0
Oil	13.9	12.7	13.9	14.9	11.7	12.0	12.2	9.4	10.7	11.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.2	1.1	1.2	1.3	1.0	1.0	1.4	1.4	1.4	1.4	12.8
Diesel	5.4	4.2	4.6	4.9	3.3	5.1	5.7	3.0	4.5	4.2	37.6
Heating Oil	3.3	2.9	3.2	3.1	2.9	2.5	2.8	2.7	2.5	2.9	26.2
Aviation Jet	1.2	0.4	0.6	0.9	0.7	0.6	0.3	0.7	0.8	0.7	6.2
LPG	0.0	0.1	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.1	1.1
CO₂ Emissions (Million tons CO₂)	251.7	248.2	248.2	242.5	249.5	238.2	229.2	235.6	254.6	249.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	226.0	215.4	206.8	193.8	195.3	198.5	188.1	188.6	200.1	191.6	-
Final energy intensity (toe/million \$15ppp)	66.0	62.7	61.5	59.5	59.6	60.2	55.9	60.9	61.3	59.6	-
Total energy intensity (toe/million \$15ppp)	122.3	116.4	112.0	109.8	107.5	108.7	105.4	99.9	99.7	95.3	-

*Heat is included

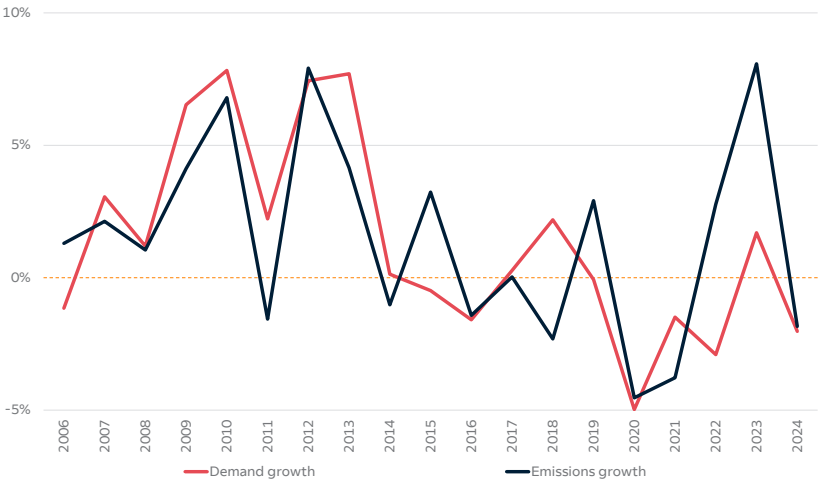
Primary energy demand mix



Electricity generation by source



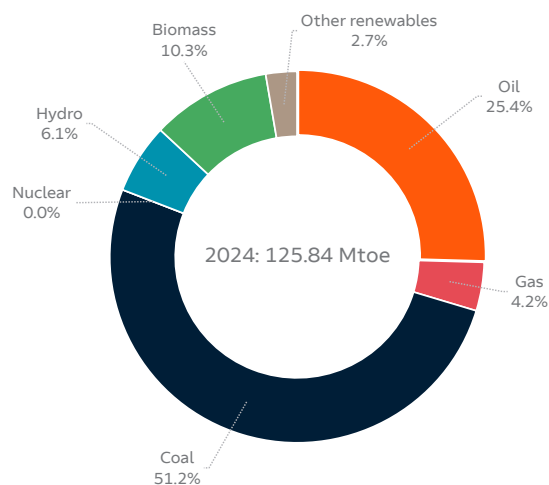
Primary energy demand and CO₂ emissions growth



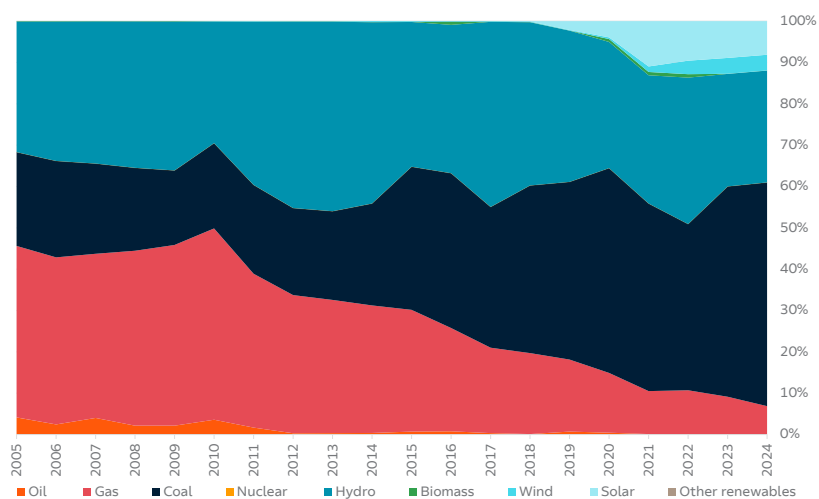
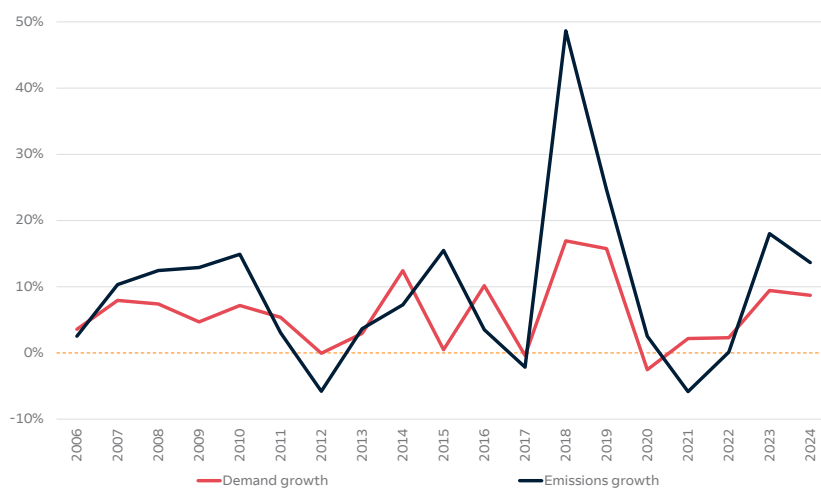
Vietnam (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	69.9	77.0	76.7	89.7	103.8	101.2	103.4	105.8	115.8	125.8	100.0
Oil	20.8	21.8	20.3	23.4	24.9	24.2	23.6	27.6	28.1	31.9	25.4
Gas	8.9	8.9	7.8	8.1	8.3	7.4	6.3	6.8	6.3	5.3	4.2
Coal	25.8	28.2	28.6	38.3	50.6	52.3	50.6	46.8	58.0	64.3	51.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.9	5.6	7.6	7.2	7.3	6.3	6.8	8.4	6.9	7.6	6.1
Biomass	9.3	12.4	12.3	12.6	12.2	10.0	13.4	13.0	13.0	13.0	10.3
Other renewables	0.0	0.0	0.0	0.0	0.5	0.9	2.7	3.1	3.2	3.4	2.7
Electricity balance of trade*	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
Total final consumption, by source	49.9	54.2	55.3	67.9	72.3	73.0	74.7	80.2	84.2	94.1	100.0
Oil	19.0	20.7	20.4	22.2	22.5	21.3	19.5	26.7	27.8	35.7	37.9
Gas	1.5	1.6	1.0	1.1	1.2	1.4	1.7	2.0	1.9	1.7	1.8
Coal	8.7	7.0	8.0	17.3	20.4	23.5	23.1	21.7	23.3	23.0	24.4
Electricity	12.4	13.7	15.0	16.6	17.8	18.6	19.2	19.4	20.2	22.1	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	8.3	11.1	10.9	10.8	10.4	8.2	11.1	10.5	11.0	11.7	12.5
Electricity generation, by source	14.1	15.6	17.1	18.3	20.0	20.7	21.8	23.8	25.5	28.2	100.0
Oil	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Gas	4.1	3.9	3.5	3.6	3.5	3.0	2.3	2.5	2.3	1.9	6.8
Coal	4.9	5.9	5.8	7.4	8.6	10.2	9.9	9.6	13.0	15.3	54.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.9	5.6	7.6	7.2	7.3	6.3	6.8	8.4	6.9	7.6	27.1
Biomass	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	1.0	1.1	3.8
Solar	0.0	0.0	0.0	0.0	0.4	0.8	2.4	2.3	2.3	2.3	8.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	49.9	54.2	55.3	67.9	72.3	73.0	74.7	80.2	84.2	94.1	100.0
Industry	19.4	18.9	19.7	30.0	33.9	38.0	38.4	39.7	42.1	43.9	46.6
Transport	11.9	12.2	13.1	13.9	14.5	12.9	11.1	15.2	14.4	16.2	17.2
Residential/Commercial	14.0	17.1	17.3	17.8	17.9	16.8	18.8	19.3	22.1	28.0	29.8
Oil final consumption, by sector	19.0	20.7	20.4	22.2	22.5	21.3	19.5	26.7	27.8	35.7	100.0
Industry	1.8	2.0	1.6	1.6	1.6	2.7	1.6	4.4	4.5	5.7	16.1
Transport	11.9	12.2	13.1	13.7	14.3	12.8	11.1	15.1	14.4	16.1	45.3
Residential/Commercial	1.8	1.7	1.9	2.0	2.2	2.2	2.4	3.4	5.6	10.0	27.9
Natural gas final consumption, by sector	1.5	1.6	1.0	1.1	1.2	1.4	1.7	2.0	1.9	1.7	100.0
Industry	0.9	1.0	0.4	0.4	0.5	0.8	0.8	1.0	0.9	0.8	50.1
Transport	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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	19.0	20.7	20.4	22.2	22.5	21.3	19.5	26.7	27.8	35.7	100.0
Gasoline	6.3	6.4	6.8	7.0	7.6	6.5	6.1	7.5	7.1	8.0	22.5
Diesel	7.9	8.9	9.4	9.8	10.1	8.7	7.8	10.7	10.2	11.4	32.0
Heating Oil	0.3	0.4	0.1	0.2	0.2	0.3	0.2	0.4	0.3	0.4	1.0
Aviation Jet	0.6	0.8	0.8	0.9	0.9	0.8	0.5	1.2	1.1	1.2	3.4
LPG	2.0	1.9	2.2	2.4	2.5	2.6	2.8	3.3	6.0	11.3	31.6
Imports	14.2	16.9	18.3	21.2	20.9	23.3	20.5	23.3	23.7	26.9	100.0
Oil	14.2	16.9	18.3	21.2	20.9	23.3	20.5	23.3	23.7	26.9	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	2.8	2.6	3.3	2.2	2.1	1.6	0.9	2.0	2.0	2.1	7.9
Diesel	5.3	6.8	7.4	6.5	5.1	4.9	5.0	4.9	4.7	5.1	18.9
Heating Oil	0.7	0.8	0.6	0.7	0.8	0.6	0.7	0.6	0.6	0.6	2.3
Aviation Jet	1.5	1.6	2.3	2.7	2.2	1.3	0.7	1.5	1.5	1.6	6.0
LPG	2.0	2.1	2.4	2.0	2.0	2.0	2.2	2.2	2.6	3.2	12.0
Exports	10.9	8.8	8.9	6.3	6.2	7.1	5.6	4.2	4.5	4.3	100.0
Oil	10.9	8.8	8.9	6.3	6.2	7.1	5.6	4.2	4.5	4.3	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	0.3	0.2	0.3	0.2	0.2	0.3	0.5	0.3	0.3	0.3	7.2
Diesel	0.5	0.5	0.5	0.6	0.5	0.6	0.7	0.5	0.6	0.6	14.7
Heating Oil	0.1	0.2	0.3	0.4	0.3	0.4	0.5	0.2	0.3	0.3	6.1
Aviation Jet	0.4	0.5	0.6	0.7	0.8	0.6	0.5	0.1	0.1	0.1	2.5
LPG	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6.8
CO₂ Emissions (Million tons CO₂)	159.3	164.9	161.4	239.9	299.0	306.6	288.7	289.0	341.1	387.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	223.7	217.1	198.6	274.7	319.0	317.9	291.9	270.3	303.7	322.3	-
Final energy intensity (toe/million \$15ppp)	66.8	67.6	65.9	74.8	75.2	73.7	72.6	71.1	71.7	74.9	-
Total energy intensity (toe/million \$15ppp)	98.2	101.4	94.4	102.8	110.8	105.0	104.6	98.9	103.1	104.6	-

*Heat is included

Primary energy demand mix



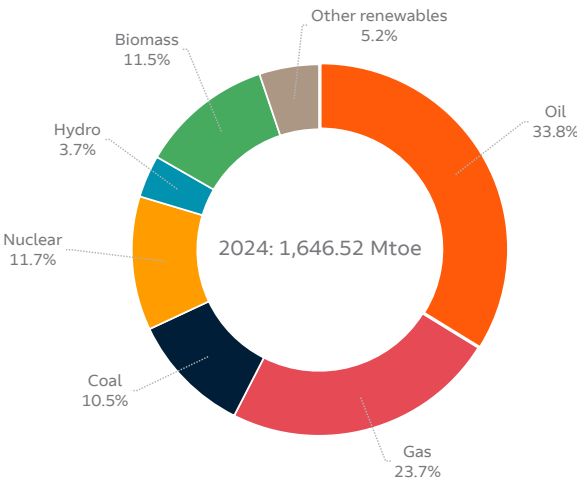
Electricity generation by source

Primary energy demand and CO₂ emissions growth

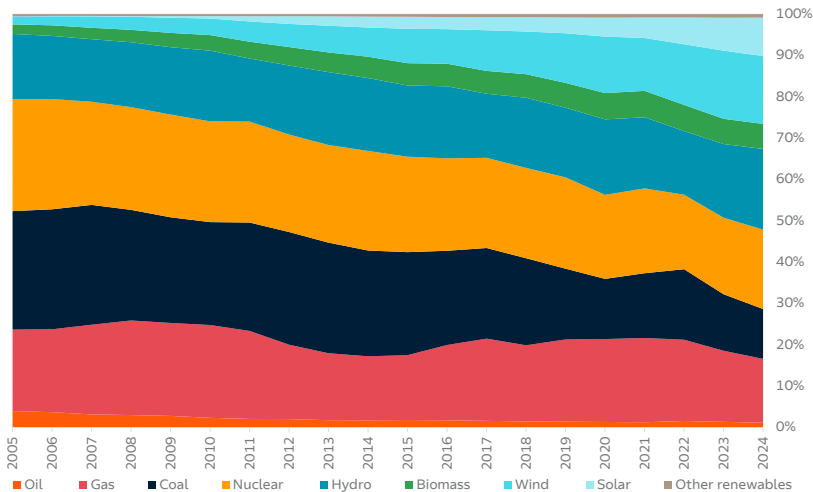
Europe (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	1,807.0	1,824.9	1,860.7	1,846.5	1,815.6	1,705.6	1,800.6	1,706.5	1,641.8	1,646.5	100.0
Oil	579.5	590.6	606.5	593.7	589.8	537.3	560.5	558.5	550.6	546.5	33.2
Gas	408.7	431.0	453.4	445.0	449.1	440.3	467.5	408.5	382.5	382.4	23.2
Coal	315.1	297.4	291.4	281.7	240.6	205.5	227.0	227.1	184.4	170.0	10.3
Nuclear	229.4	224.3	221.5	222.2	221.0	197.5	207.7	177.5	178.5	188.4	11.4
Hydro	53.6	54.8	48.9	53.9	52.9	55.6	54.6	46.9	53.4	59.5	3.6
Biomass	160.6	164.1	168.6	174.7	178.7	179.9	192.3	188.3	184.2	185.8	11.3
Other renewables	38.5	39.2	45.4	47.7	54.0	60.1	60.3	69.5	77.8	83.2	5.1
Electricity balance of trade*	21.7	23.5	24.8	27.5	29.5	29.4	30.7	30.1	30.5	30.7	1.9
Total final consumption, by source	1,270.9	1,295.6	1,319.6	1,315.5	1,307.7	1,244.8	1,314.8	1,251.5	1,213.5	1,226.1	100.0
Oil	527.2	536.3	547.5	540.6	539.5	493.1	516.4	513.0	504.1	507.4	41.4
Gas	269.3	277.5	284.5	284.2	282.3	277.0	302.4	261.5	245.5	252.3	20.6
Coal	47.1	47.5	46.9	43.8	40.3	40.6	41.5	36.9	33.2	31.0	2.5
Electricity	275.9	280.0	283.5	284.7	281.9	272.7	285.4	276.2	269.3	273.6	22.3
Heat	55.1	57.1	57.6	56.9	56.8	54.9	56.9	53.2	52.1	51.0	4.2
Biomass	96.2	97.3	99.5	105.3	107.0	106.5	112.3	110.6	109.2	110.8	9.0
Electricity generation, by source	327.9	331.1	335.4	335.2	330.1	320.7	334.1	325.3	318.0	323.7	100.0
Oil	5.9	5.7	5.4	4.9	4.7	4.3	4.3	5.1	4.4	3.7	1.1
Gas	51.5	60.4	66.8	61.8	65.6	64.3	68.1	63.9	54.7	50.0	15.5
Coal	81.7	75.4	73.5	70.5	56.6	46.7	52.4	55.6	43.4	39.0	12.1
Nuclear	75.7	74.0	73.1	73.3	72.9	65.2	68.5	58.6	58.9	62.2	19.2
Hydro	56.5	57.7	52.0	56.8	55.7	58.6	57.4	50.2	56.7	63.2	19.5
Biomass	17.7	18.1	18.6	19.1	19.8	20.3	21.4	20.6	19.3	19.6	6.0
Wind	27.3	27.7	33.0	34.6	39.6	43.9	42.7	47.7	52.5	53.1	16.4
Solar	9.4	9.8	10.7	11.6	12.7	14.7	16.6	21.1	25.3	30.1	9.3
Other renewables	2.1	2.3	2.4	2.5	2.6	2.7	2.6	2.6	2.7	2.7	0.8
Total final consumption, by sector	1,270.9	1,295.6	1,319.6	1,315.5	1,307.7	1,244.8	1,314.8	1,251.5	1,213.5	1,226.1	100.0
Industry	297.8	299.9	309.2	311.2	306.0	298.3	314.3	293.9	279.2	284.5	23.2
Transport	354.3	364.3	371.4	375.7	378.5	330.4	359.1	369.3	371.1	370.7	30.2
Residential/Commercial	474.3	484.5	487.2	483.5	479.2	471.4	495.9	460.4	440.3	445.2	36.3
Oil final consumption, by sector	527.2	536.3	547.5	540.6	539.5	493.1	516.4	513.0	504.1	507.4	100.0
Industry	31.4	28.7	31.5	31.8	30.8	31.0	31.1	31.5	30.9	30.5	6.0
Transport	332.6	342.6	348.2	350.6	351.8	304.3	331.5	340.4	340.2	341.4	67.3
Residential/Commercial	50.6	50.6	50.2	47.6	47.4	47.1	42.9	41.1	38.0	38.0	7.5
Natural gas final consumption, by sector	269.3	277.5	284.5	284.2	282.3	277.0	302.4	261.5	245.5	252.3	100.0
Industry	91.7	93.4	97.9	97.4	95.5	92.9	102.9	89.8	85.2	89.4	35.4
Transport	1.8	1.8	1.8	1.8	2.1	2.0	2.3	2.3	2.4	2.1	0.8
Residential/Commercial	156.6	163.0	164.3	164.3	163.8	161.7	176.5	154.8	143.4	145.9	57.8
Refined products consumption	525.0	534.0	545.4	538.8	538.0	491.4	514.9	511.5	501.4	505.4	100.0
Gasoline	85.1	85.3	85.5	88.0	89.6	77.1	84.4	89.1	92.7	96.8	19.1
Diesel	299.6	307.1	312.7	309.7	308.7	281.3	295.9	295.3	286.9	283.8	56.2
Heating Oil	8.2	7.0	6.8	6.4	5.8	4.9	4.6	4.8	4.0	3.7	0.7
Aviation Jet	8.8	9.2	9.3	9.5	9.8	5.1	6.5	9.1	10.3	10.9	2.2
LPG	36.1	36.1	36.5	37.3	37.8	34.4	34.4	33.7	33.9	34.1	6.7
Imports	1,375.1	1,400.3	1,437.8	1,422.0	1,444.4	1,282.6	1,340.1	1,417.8	1,350.0	1,336.1	100.0
Oil	1,023.4	1,031.7	1,053.6	1,038.0	1,029.4	901.5	932.2	983.9	966.0	976.8	73.1
Gas	351.7	368.5	384.3	384.0	415.0	381.1	407.9	433.8	384.0	359.2	26.9
Gasoline	31.4	32.4	32.0	28.8	30.3	26.7	28.7	28.7	29.8	33.2	2.5
Diesel	154.0	163.9	162.5	155.3	156.7	145.0	147.0	149.3	152.4	151.7	11.4
Heating Oil	70.6	68.4	52.0	51.3	46.6	49.4	56.4	55.9	53.3	51.6	3.9
Aviation Jet	34.9	37.4	38.7	41.4	42.2	25.6	25.9	36.6	39.8	44.0	3.3
LPG	27.6	28.3	27.9	29.0	28.6	26.2	27.2	29.2	29.9	29.2	2.2
Exports	659.9	667.0	662.2	642.0	623.7	587.1	612.2	648.4	643.7	635.2	100.0
Oil	502.4	512.1	519.4	506.2	487.0	458.5	483.6	474.3	476.7	474.1	74.6
Gas	157.5	154.9	142.8	135.8	136.7	128.6	128.6	174.1	167.0	161.0	25.4
Gasoline	91.0	91.8	94.6	93.3	93.6	79.0	87.4	88.2	84.1	83.7	13.2
Diesel	109.9	115.4	118.3	106.1	104.8	100.7	107.2	102.5	105.3	109.1	17.2
Heating Oil	84.7	80.2	63.0	58.4	50.1	52.9	61.7	59.3	55.1	54.0	8.5
Aviation Jet	15.1	16.3	17.6	19.6	20.2	14.0	14.2	16.4	18.7	20.0	3.2
LPG	16.3	17.1	17.4	16.6	16.1	14.8	15.5	14.7	14.8	15.3	2.4
CO₂ Emissions (Million tons CO₂)	3,694.1	3,702.1	3,755.3	3,687.1	3,526.5	3,228.5	3,446.6	3,368.6	3,113.4	3,038.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	160.4	157.5	154.6	148.5	139.4	134.7	134.3	126.3	115.6	111.2	-
Final energy intensity (toe/million \$15ppp)	50.5	50.4	49.7	48.7	47.5	47.6	47.1	43.6	41.9	41.7	-
Total energy intensity (toe/million \$15ppp)	78.5	77.6	76.6	74.4	71.8	71.2	70.2	64.0	60.9	60.3	-

*Heat is included

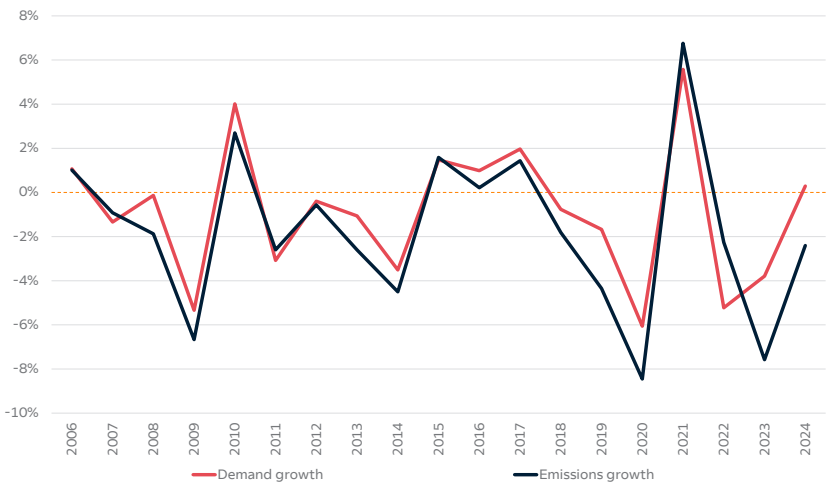
Primary energy demand mix



Electricity generation by source



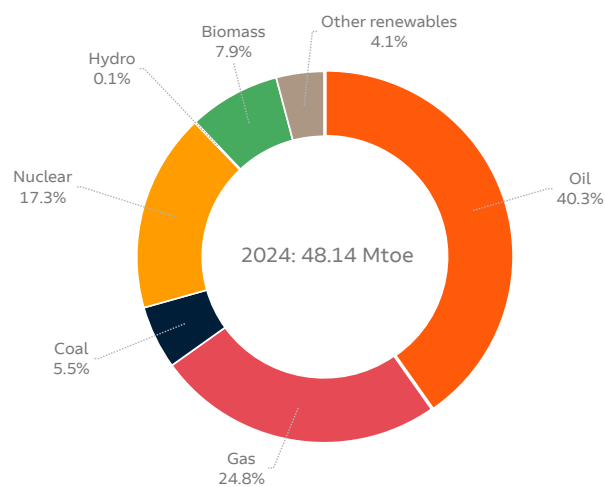
Primary energy demand and CO₂ emissions growth



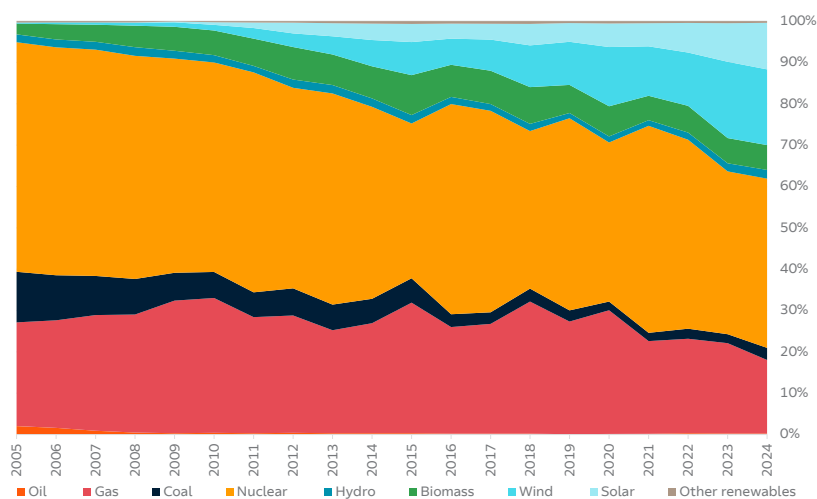
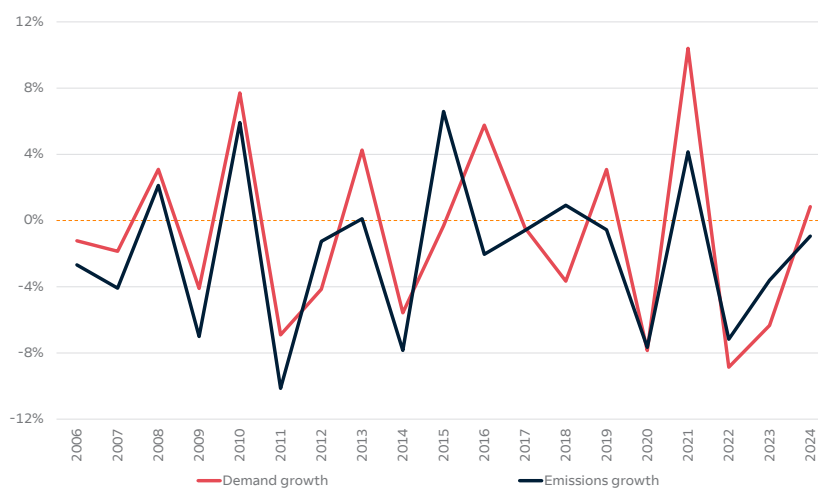
Belgium (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	52.6	55.6	55.4	53.3	55.0	50.7	55.9	51.0	47.7	48.1	100.0
Oil	22.0	21.5	21.2	21.2	20.3	18.5	19.8	18.6	18.4	19.0	39.4
Gas	13.9	14.2	14.5	15.0	15.2	15.1	15.2	12.9	12.2	11.7	24.3
Coal	3.5	3.2	3.1	3.1	3.1	2.4	2.6	2.8	2.4	2.6	5.4
Nuclear	6.8	11.3	11.0	7.5	11.3	9.0	13.1	11.4	8.6	8.1	16.9
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Biomass	3.6	3.8	3.8	3.8	3.7	3.8	4.0	4.0	3.8	3.7	7.7
Other renewables	0.7	0.7	0.8	1.0	1.2	1.5	1.5	1.7	2.0	1.9	4.0
Electricity balance of trade*	2.1	0.8	0.8	1.8	0.1	0.2	-0.4	-0.4	0.4	1.1	2.2
Total final consumption, by source	40.7	40.9	40.3	40.9	39.6	37.9	40.4	36.6	36.1	37.0	100.0
Oil	20.6	20.2	19.5	19.9	18.8	17.6	18.7	17.5	17.4	18.0	48.6
Gas	9.9	10.2	10.5	10.5	10.5	10.2	11.1	9.1	8.9	9.1	24.6
Coal	1.0	0.9	0.9	1.0	0.9	0.8	0.8	0.7	0.7	0.6	1.7
Electricity	7.0	7.0	7.0	7.0	6.9	6.7	6.9	6.5	6.3	6.5	17.6
Heat	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.8
Biomass	1.8	2.0	2.0	2.0	2.0	2.1	2.4	2.4	2.3	2.4	6.6
Electricity generation, by source	6.0	7.4	7.4	6.5	8.1	7.7	8.6	8.3	7.2	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	0.2
Gas	1.9	1.9	2.0	2.1	2.2	2.3	1.9	1.9	1.6	1.2	17.8
Coal	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.9
Nuclear	2.2	3.7	3.6	2.5	3.7	3.0	4.3	3.8	2.8	2.7	40.9
Hydro	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.1
Biomass	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.4	0.4	6.0
Wind	0.5	0.5	0.6	0.7	0.8	1.1	1.0	1.1	1.3	1.2	18.3
Solar	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.7	11.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Total final consumption, by sector	40.7	40.9	40.3	40.9	39.6	37.9	40.4	36.6	36.1	37.0	100.0
Industry	9.4	9.4	9.5	9.7	9.9	9.5	9.9	9.0	8.6	8.7	23.6
Transport	8.9	9.0	8.9	8.9	8.9	7.8	8.6	8.7	8.9	8.9	24.1
Residential/Commercial	12.7	12.8	12.6	12.5	11.8	11.7	12.5	10.7	10.5	10.8	29.1
Oil final consumption, by sector	20.6	20.2	19.5	19.9	18.8	17.6	18.7	17.5	17.4	18.0	100.0
Industry	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	5.0
Transport	8.6	8.5	8.3	8.3	8.2	6.9	7.6	7.7	7.8	7.8	43.5
Residential/Commercial	3.6	3.3	3.3	3.2	2.5	2.9	2.6	2.3	2.2	2.3	12.6
Natural gas final consumption, by sector	9.9	10.2	10.5	10.5	10.5	10.2	11.1	9.1	8.9	9.1	100.0
Industry	3.7	3.8	4.0	4.0	4.0	3.8	4.0	3.4	3.4	3.5	38.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.8
Residential/Commercial	4.9	5.2	5.1	5.1	5.1	4.8	5.6	4.4	4.3	4.4	47.8
Refined products consumption	20.6	20.2	19.5	19.9	18.8	17.6	18.7	17.5	17.4	18.0	100.0
Gasoline	1.4	1.5	1.5	1.7	1.9	1.5	1.9	2.1	2.3	2.5	14.1
Diesel	11.0	10.5	10.3	10.1	9.5	8.8	8.9	8.4	8.3	8.2	45.3
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LPG	2.0	1.7	1.7	2.5	2.6	2.5	2.6	2.6	3.0	2.9	16.1
Imports	75.2	73.7	78.1	81.4	82.4	71.7	76.1	76.4	76.4	74.2	100.0
Oil	59.9	58.8	63.5	65.2	63.1	53.8	58.5	56.2	57.3	57.8	77.9
Gas	15.3	14.9	14.6	16.2	19.2	17.9	17.6	20.2	19.1	16.4	22.1
Gasoline	1.3	1.5	0.9	1.6	1.3	0.7	0.9	1.0	1.3	1.7	2.2
Diesel	10.9	11.3	10.8	10.0	8.3	8.4	7.0	7.9	7.7	7.4	10.0
Heating Oil	3.7	3.9	4.8	5.9	5.5	4.2	5.5	4.8	3.8	3.6	4.9
Aviation Jet	0.8	0.5	1.5	1.7	1.5	1.0	1.1	0.9	1.2	1.4	1.9
LPG	2.1	1.8	1.8	2.3	2.3	2.4	2.5	2.9	3.2	3.2	4.3
Exports	30.9	30.2	34.3	33.9	36.2	30.0	33.2	35.3	37.1	35.6	100.0
Oil	29.5	29.6	34.1	32.8	32.5	27.1	30.8	28.0	30.2	30.7	86.4
Gas	1.4	0.6	0.3	1.1	3.8	2.9	2.4	7.2	6.8	4.8	13.6
Gasoline	5.4	5.4	4.9	4.5	5.0	3.4	3.8	4.5	6.0	6.8	19.0
Diesel	11.0	11.9	12.5	11.8	11.2	9.4	11.3	10.1	10.9	11.4	32.1
Heating Oil	4.5	4.0	6.0	5.5	4.1	3.2	3.0	2.4	1.8	1.2	3.3
Aviation Jet	0.9	0.8	1.8	1.6	2.2	1.1	0.6	0.7	1.3	1.7	4.7
LPG	0.8	0.9	0.9	0.7	0.8	0.9	1.0	1.0	1.0	1.2	3.4
CO₂ Emissions (Million tons CO₂)	86.6	84.8	84.3	85.1	84.6	78.2	81.4	75.6	72.8	72.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	166.3	160.8	157.3	156.0	151.7	147.9	144.1	129.8	123.5	120.9	-
Final energy intensity (toe/million \$15ppp)	61.1	60.7	59.4	58.7	56.5	56.6	56.4	50.3	48.9	49.1	-
Total energy intensity (toe/million \$15ppp)	101.0	105.4	103.3	97.7	98.5	95.9	99.0	87.6	80.9	80.7	-

*Heat is included

Primary energy demand mix



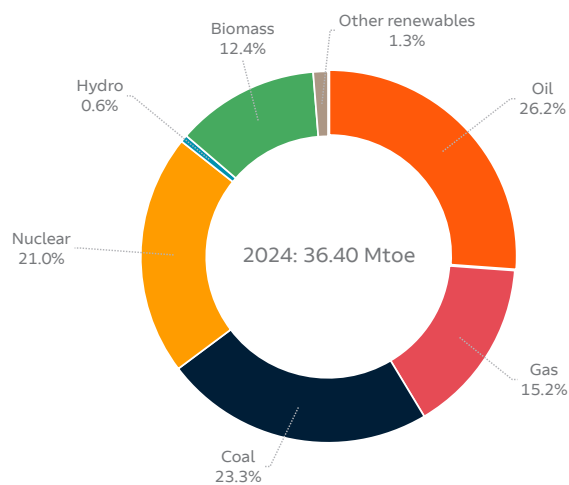
Electricity generation by source

Primary energy demand and CO₂ emissions growth

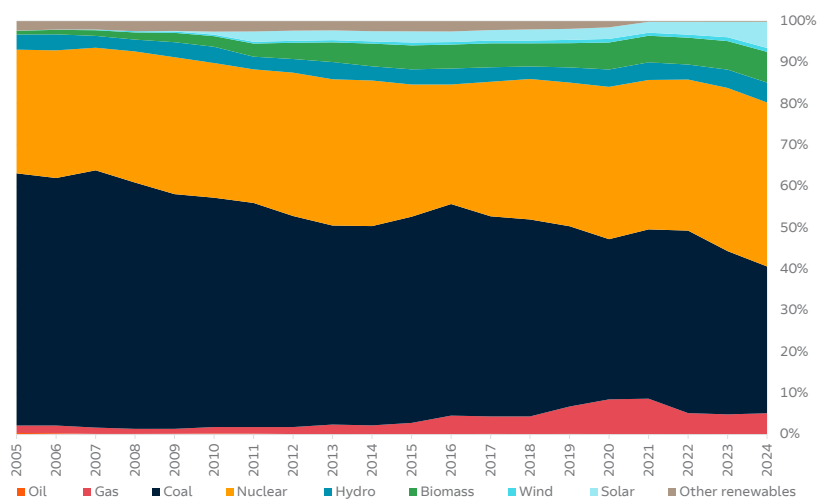
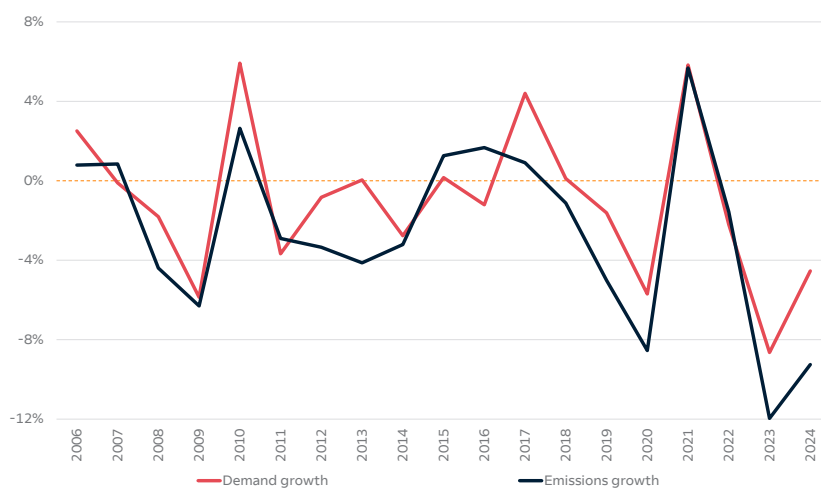
Czech Republic (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	42.1	41.6	43.4	43.5	42.8	40.3	42.7	41.7	38.1	36.4	100.0
Oil	8.6	8.0	9.3	9.4	9.5	8.5	9.3	9.5	9.3	9.7	26.5
Gas	6.5	7.0	7.2	6.8	7.2	7.3	7.8	6.3	5.8	5.6	15.5
Coal	16.5	16.6	15.9	15.8	14.3	12.3	12.8	13.6	10.8	8.6	23.7
Nuclear	7.0	6.3	7.4	7.8	7.9	7.8	8.0	8.1	7.9	7.7	21.3
Hydro	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.6
Biomass	4.1	4.2	4.3	4.3	4.6	4.8	5.1	4.9	4.6	4.6	12.6
Other renewables	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.5	1.3
Electricity balance of trade*	-1.0	-0.9	-1.1	-1.1	-1.1	-0.8	-0.9	-1.1	-0.7	-0.5	-1.4
Total final consumption, by source	25.4	25.3	27.2	26.9	26.9	25.9	27.8	26.5	24.6	24.3	100.0
Oil	8.4	7.7	9.1	9.2	9.2	8.4	9.2	9.3	9.1	9.3	38.4
Gas	5.1	5.4	5.6	5.2	5.3	5.2	5.6	4.8	4.3	4.3	17.5
Coal	2.3	2.3	2.4	2.3	2.0	1.9	2.1	1.9	1.6	0.9	3.8
Electricity	4.7	4.8	4.9	5.0	5.0	4.9	5.2	5.0	4.8	4.8	19.6
Heat	2.0	2.1	2.2	2.1	2.0	2.0	2.2	2.0	1.8	2.0	8.0
Biomass	2.9	3.0	3.0	3.1	3.3	3.4	3.7	3.5	3.1	3.1	12.6
Electricity generation, by source	7.2	7.2	7.5	7.6	7.5	7.0	7.3	7.3	6.6	6.4	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	0.3	0.3	0.3	0.5	0.6	0.6	0.4	0.3	0.3	5.0
Coal	3.6	3.7	3.6	3.6	3.3	2.7	3.0	3.2	2.6	2.3	35.5
Nuclear	2.3	2.1	2.4	2.6	2.6	2.6	2.6	2.7	2.6	2.6	39.7
Hydro	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	4.8
Biomass	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	7.4
Wind	0.0	0.0	0.1	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	0.4	6.3
Other renewables	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.2
Total final consumption, by sector	25.4	25.3	27.2	26.9	26.9	25.9	27.8	26.5	24.6	24.3	100.0
Industry	6.5	6.4	6.7	6.7	6.6	6.5	7.0	6.5	5.9	5.6	22.9
Transport	6.2	6.4	6.6	6.6	6.8	6.3	6.8	6.9	7.0	7.3	30.1
Residential/Commercial	9.7	10.1	10.3	10.0	10.0	9.9	10.6	9.7	8.7	8.6	35.4
Oil final consumption, by sector	8.4	7.7	9.1	9.2	9.2	8.4	9.2	9.3	9.1	9.3	100.0
Industry	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	2.2
Transport	5.7	5.9	6.1	6.1	6.2	5.7	6.2	6.3	6.5	6.8	72.2
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Natural gas final consumption, by sector	5.1	5.4	5.6	5.2	5.3	5.2	5.6	4.8	4.3	4.3	100.0
Industry	2.0	2.0	2.1	2.0	2.0	2.0	2.2	2.0	1.8	1.8	41.7
Transport	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.8
Residential/Commercial	2.9	3.1	3.2	3.0	3.0	2.9	3.1	2.6	2.3	2.3	54.3
Refined products consumption	8.4	7.7	9.1	9.2	9.2	8.4	9.2	9.3	9.1	9.3	100.0
Gasoline	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.6	1.7	1.7	18.7
Diesel	4.4	4.6	4.7	4.8	4.9	4.6	4.9	5.0	5.1	5.3	56.2
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
LPG	0.3	0.3	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	4.5
Imports	17.3	17.0	19.1	18.6	19.7	16.8	18.6	18.7	17.4	16.0	100.0
Oil	11.2	10.3	11.8	12.0	11.9	10.5	11.4	11.5	11.6	11.5	72.1
Gas	6.2	6.7	7.3	6.6	7.9	6.3	7.2	7.2	5.8	4.5	27.9
Gasoline	0.5	0.8	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.7	4.6
Diesel	2.2	2.9	2.1	2.4	2.2	2.6	2.7	2.4	2.6	3.1	19.3
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	0.3	0.2	0.3	0.3	0.1	0.1	0.2	0.1	0.2	1.0
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.9
Exports	2.5	2.2	2.4	2.2	2.2	1.8	2.2	1.8	2.1	1.7	100.0
Oil	2.5	2.2	2.4	2.2	2.2	1.8	2.2	1.8	2.1	1.7	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.6	0.4	0.6	0.6	0.6	0.4	0.6	0.5	0.6	0.5	29.8
Diesel	1.1	0.8	0.9	0.8	0.8	0.8	1.0	0.7	0.8	0.6	37.1
Heating Oil	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	3.7
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	5.4
CO₂ Emissions (Million tons CO₂)	97.8	99.4	100.3	99.2	94.2	86.2	91.1	89.6	78.9	71.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	271.9	269.5	258.5	248.6	228.0	220.2	223.7	214.1	188.7	169.3	-
Final energy intensity (toe/million \$15ppp)	63.8	63.8	62.5	60.1	58.0	60.0	61.4	56.8	53.3	52.3	-
Total energy intensity (toe/million \$15ppp)	117.1	112.8	111.9	109.0	103.5	103.1	104.9	99.7	91.2	86.1	-

*Heat is included

Primary energy demand mix



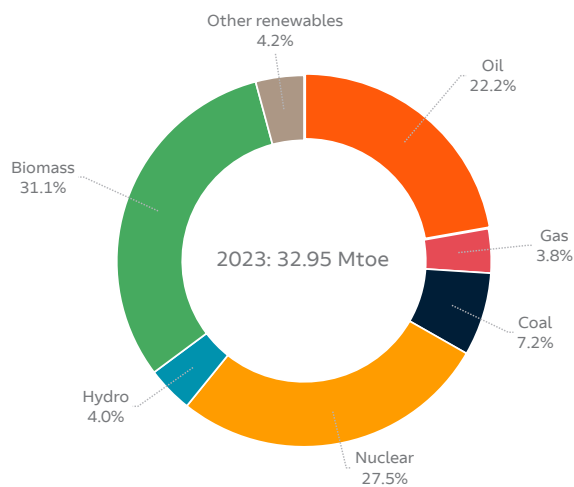
Electricity generation by source

Primary energy demand and CO₂ emissions growth

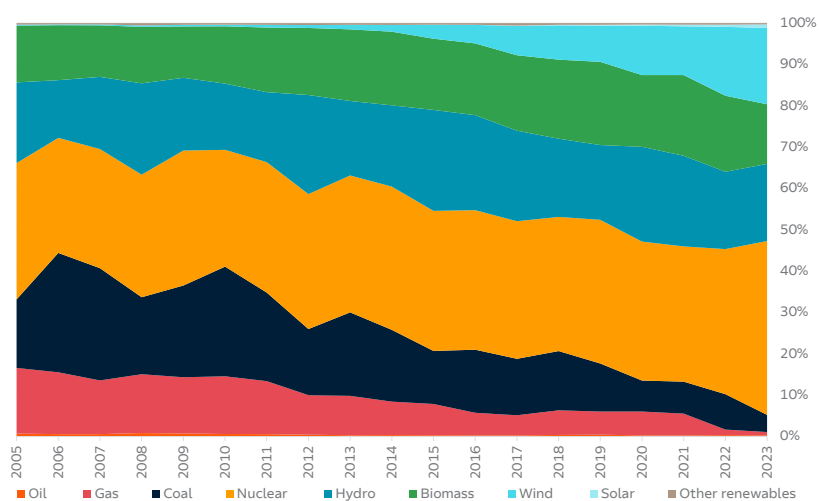
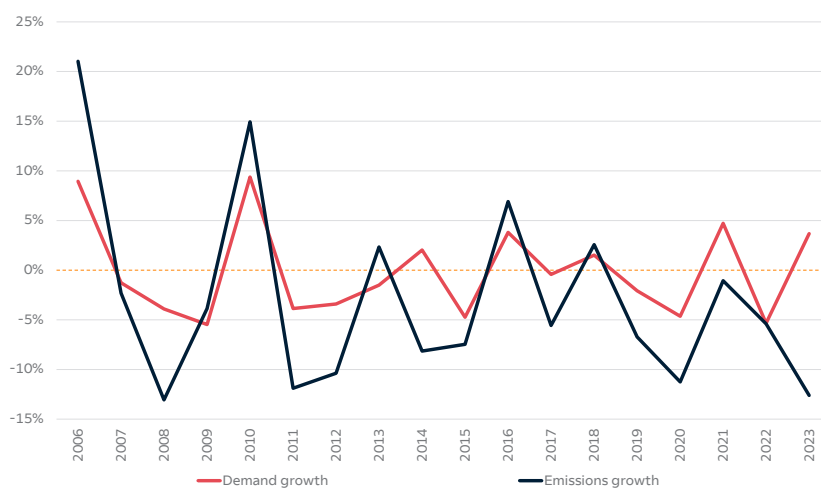
Finland (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2023 (%)
Total primary energy demand, by source	32.7	34.0	33.8	34.3	33.6	32.1	33.6	31.8	33.0	n.d.	100.0
Oil	8.0	8.8	8.4	8.3	7.9	7.8	7.2	7.3	7.2	n.d.	21.9
Gas	2.2	2.1	1.9	2.2	2.1	2.1	2.1	1.1	1.3	n.d.	3.8
Coal	4.1	4.3	4.1	4.2	3.5	2.9	3.0	3.0	2.4	n.d.	7.2
Nuclear	6.1	6.0	5.9	5.9	6.2	6.1	6.1	6.6	8.9	n.d.	27.1
Hydro	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.2	1.3	n.d.	4.0
Biomass	9.1	9.3	9.8	10.1	10.3	9.6	11.2	10.2	10.1	n.d.	30.7
Other renewables	0.2	0.3	0.4	0.5	0.5	0.7	0.8	1.1	1.4	n.d.	4.1
Electricity balance of trade*	1.6	1.9	2.0	1.9	1.9	1.5	1.8	1.3	0.4	n.d.	1.2
Total final consumption, by source	24.4	25.5	25.5	25.8	25.6	24.2	25.4	23.7	22.6	n.d.	100.0
Oil	7.3	7.8	7.5	7.5	7.3	7.1	6.6	6.6	5.9	n.d.	26.0
Gas	0.6	0.6	0.7	0.6	0.7	0.7	0.8	0.7	0.6	n.d.	2.6
Coal	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	n.d.	1.1
Electricity	6.8	7.0	7.0	7.1	7.0	6.6	7.1	6.6	6.4	n.d.	28.2
Heat	3.8	4.1	4.0	4.0	3.9	3.6	4.1	3.9	3.9	n.d.	17.2
Biomass	5.4	5.5	5.9	6.1	6.2	5.8	6.4	5.6	5.6	n.d.	24.8
Electricity generation, by source	5.9	5.9	5.8	6.0	5.9	6.0	6.2	6.2	7.0	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	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.1	0.1	n.d.	0.8
Coal	0.8	0.9	0.8	0.9	0.7	0.4	0.5	0.5	0.3	n.d.	4.1
Nuclear	2.0	2.0	1.9	2.0	2.1	2.0	2.0	2.2	3.0	n.d.	42.1
Hydro	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.2	1.3	n.d.	18.6
Biomass	1.0	1.0	1.1	1.2	1.2	1.0	1.2	1.1	1.0	n.d.	14.4
Wind	0.2	0.3	0.4	0.5	0.5	0.7	0.7	1.0	1.3	n.d.	18.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	n.d.	0.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.3
Total final consumption, by sector	24.4	25.5	25.5	25.8	25.6	24.2	25.4	23.7	22.6	n.d.	100.0
Industry	10.1	10.4	10.6	11.0	10.9	10.2	10.7	9.7	9.2	n.d.	40.9
Transport	4.2	4.3	4.3	4.3	4.3	4.0	4.1	3.9	3.9	n.d.	17.2
Residential/Commercial	7.6	8.2	8.1	8.2	8.0	7.5	8.3	7.8	7.6	n.d.	33.5
Oil final consumption, by sector	7.3	7.8	7.5	7.5	7.3	7.1	6.6	6.6	5.9	n.d.	100.0
Industry	1.1	1.1	1.1	1.1	1.0	0.9	0.9	1.0	0.9	n.d.	14.7
Transport	3.7	4.1	3.8	3.9	3.8	3.5	3.3	3.3	3.2	n.d.	54.0
Residential/Commercial	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.4	0.4	n.d.	6.1
Natural gas final consumption, by sector	0.6	0.6	0.7	0.6	0.7	0.7	0.8	0.7	0.6	n.d.	100.0
Industry	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.5	n.d.	84.8
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	4.2
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	n.d.	3.8
Refined products consumption	7.3	7.8	7.5	7.5	7.3	7.1	6.6	6.6	5.9	n.d.	100.0
Gasoline	1.4	1.4	1.4	1.4	1.3	1.2	1.2	1.1	1.1	n.d.	19.5
Diesel	3.6	4.0	3.9	3.9	3.8	3.7	3.4	3.4	3.1	n.d.	53.4
Heating Oil	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	n.d.	2.9
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	1.7
LPG	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	0.9	n.d.	15.3
Imports	18.8	20.5	19.9	20.2	20.2	19.4	15.9	17.4	16.4	n.d.	100.0
Oil	16.5	18.5	18.0	18.0	18.1	17.3	13.8	16.2	15.0	n.d.	92.0
Gas	2.2	2.1	1.9	2.2	2.1	2.1	2.1	1.1	1.3	n.d.	8.0
Gasoline	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	n.d.	3.9
Diesel	1.8	2.0	1.8	1.6	1.6	2.0	1.6	1.9	1.6	n.d.	10.0
Heating Oil	1.1	1.2	0.9	0.4	0.6	0.4	0.6	0.9	0.1	n.d.	0.9
Aviation Jet	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.0	n.d.	0.1
LPG	0.9	0.8	0.8	0.9	0.9	0.9	1.0	1.2	0.8	n.d.	4.8
Exports	7.0	9.2	9.1	9.0	9.7	8.9	6.6	8.0	8.1	n.d.	100.0
Oil	7.0	9.2	9.1	9.0	9.7	8.9	6.6	8.0	8.1	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	2.5	3.1	3.2	3.1	3.5	3.1	2.5	3.3	3.0	n.d.	37.6
Diesel	3.0	3.9	3.8	3.7	3.9	3.5	2.3	2.3	2.9	n.d.	35.7
Heating Oil	0.8	1.3	1.1	1.1	1.1	1.1	0.9	1.4	1.3	n.d.	16.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.1
CO₂ Emissions (Million tons CO₂)	42.8	45.8	43.3	44.4	41.4	36.7	36.3	34.4	30.0	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	184.0	191.3	175.1	177.5	163.6	148.7	143.1	133.6	117.9	n.d.	-
Final energy intensity (toe/million \$15ppp)	98.6	100.0	97.4	97.5	95.5	91.5	94.6	86.6	84.6	n.d.	-
Total energy intensity (toe/million \$15ppp)	140.5	141.9	136.9	137.4	133.0	129.8	132.2	123.5	129.4	n.d.	-

*Heat is included

Primary energy demand mix



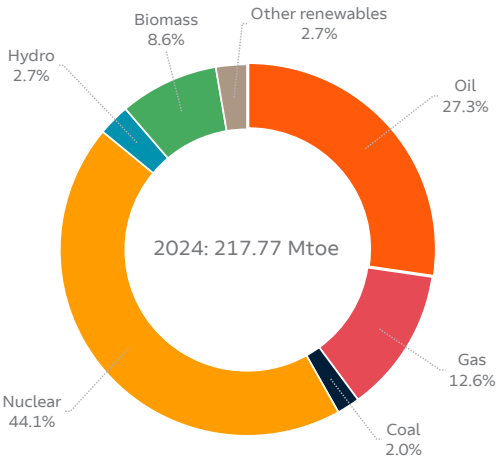
Electricity generation by source

Primary energy demand and CO₂ emissions growth

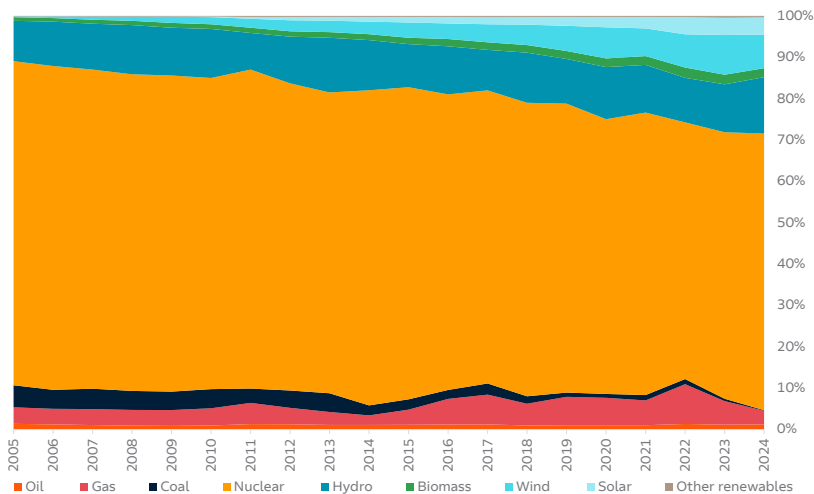
France (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	252.6	247.9	247.6	246.2	242.7	218.0	234.0	210.4	213.7	217.8	100.0
Oil	75.4	72.9	73.3	70.5	71.0	62.0	65.7	64.2	64.4	61.4	28.2
Gas	35.0	38.3	38.5	36.9	37.6	35.1	37.3	33.8	30.0	28.3	13.0
Coal	9.3	9.1	9.9	9.1	7.3	5.3	7.1	6.0	4.7	4.4	2.0
Nuclear	114.0	105.1	103.8	107.6	104.0	92.2	98.9	76.8	88.1	99.1	45.5
Hydro	4.8	5.2	4.3	5.6	4.9	5.4	5.1	3.9	4.9	6.2	2.8
Biomass	16.6	17.8	17.7	17.8	18.1	16.8	18.5	18.8	19.0	19.3	8.8
Other renewables	2.5	2.6	2.9	3.4	4.0	4.6	4.5	5.0	6.2	6.0	2.8
Electricity balance of trade*	-5.0	-3.1	-2.9	-4.8	-4.3	-3.2	-3.2	2.0	-3.6	-7.0	-3.2
Total final consumption, by source	153.5	155.5	155.0	152.2	150.6	137.9	149.6	140.7	134.5	134.3	100.0
Oil	69.9	68.6	69.3	66.9	66.5	59.0	64.5	61.9	59.6	59.1	44.0
Gas	29.8	31.2	30.4	30.0	29.3	27.4	29.8	25.6	23.4	23.4	17.4
Coal	1.4	1.4	1.4	1.5	1.2	1.1	1.3	1.0	0.9	0.9	0.6
Electricity	37.4	38.0	37.7	37.5	37.1	35.3	37.2	35.6	34.1	34.3	25.6
Heat	3.3	3.7	3.8	3.8	4.0	3.8	4.4	4.2	3.9	3.8	2.9
Biomass	11.8	12.6	12.4	12.5	12.6	11.3	12.5	12.4	12.6	12.7	9.5
Electricity generation, by source	49.8	48.5	48.3	50.0	49.1	45.8	47.7	40.8	45.1	48.9	100.0
Oil	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.2
Gas	1.8	3.0	3.5	2.6	3.4	3.0	2.9	3.9	2.6	1.6	3.3
Coal	1.3	1.1	1.3	0.9	0.5	0.4	0.6	0.5	0.3	0.1	0.1
Nuclear	37.6	34.7	34.3	35.5	34.3	30.4	32.6	25.3	29.1	32.7	66.9
Hydro	5.2	5.6	4.7	6.1	5.3	5.8	5.5	4.4	5.2	6.7	13.6
Biomass	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	2.2
Wind	1.8	1.8	2.1	2.5	3.0	3.4	3.2	3.3	4.3	4.0	8.1
Solar	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.7	1.9	2.0	4.2
Other renewables	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
Total final consumption, by sector	153.5	155.5	155.0	152.2	150.6	137.9	149.6	140.7	134.5	134.3	100.0
Industry	27.6	28.3	27.3	27.7	27.2	25.0	27.0	25.7	24.0	24.2	18.0
Transport	46.6	46.6	46.9	46.2	45.9	38.6	44.0	45.5	44.5	44.4	33.1
Residential/Commercial	60.5	62.4	62.0	60.2	59.3	56.7	60.3	54.2	50.9	50.8	37.8
Oil final consumption, by sector	69.9	68.6	69.3	66.9	66.5	59.0	64.5	61.9	59.6	59.1	100.0
Industry	2.9	2.7	2.5	2.5	2.5	2.4	2.4	2.4	2.5	2.5	4.1
Transport	42.6	42.7	42.8	42.1	41.8	35.1	40.1	41.2	39.9	39.8	67.2
Residential/Commercial	8.2	7.8	7.9	7.2	6.9	6.5	6.5	5.6	4.7	4.7	7.9
Natural gas final consumption, by sector	29.8	31.2	30.4	30.0	29.3	27.4	29.8	25.6	23.4	23.4	100.0
Industry	10.9	11.2	10.5	10.8	10.4	9.3	10.4	9.3	8.4	8.5	36.2
Transport	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	1.5
Residential/Commercial	17.5	18.6	18.4	17.7	17.3	16.6	17.8	14.8	13.5	13.4	57.4
Refined products consumption	69.9	68.6	69.3	66.9	66.5	59.0	64.4	61.9	59.6	59.1	100.0
Gasoline	7.2	7.4	7.6	7.8	8.3	7.2	8.6	9.4	10.0	10.8	18.2
Diesel	46.0	45.4	45.3	43.5	42.1	37.2	40.1	39.0	36.6	35.3	59.7
Heating Oil	0.6	0.5	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.3
Aviation Jet	1.8	1.7	1.8	1.9	1.9	1.2	1.6	2.0	1.8	1.9	3.3
LPG	4.5	4.3	4.2	4.2	4.6	3.8	3.9	3.4	3.1	3.0	5.0
Imports	140.7	138.6	142.1	139.0	142.7	117.9	120.9	132.8	125.7	121.3	100.0
Oil	103.2	99.2	100.8	97.2	95.3	77.6	80.6	83.3	84.5	84.1	69.3
Gas	37.5	39.3	41.2	41.8	47.4	40.3	40.4	49.5	41.2	37.2	30.7
Gasoline	0.7	1.3	1.5	1.4	1.6	1.4	2.7	3.1	2.7	2.9	2.4
Diesel	25.2	22.8	22.3	22.8	24.8	24.9	25.0	22.0	20.2	19.5	16.1
Heating Oil	3.6	4.0	3.4	3.3	2.8	1.9	1.5	1.6	1.3	1.2	1.0
Aviation Jet	4.8	4.7	4.5	5.9	6.2	4.1	5.1	5.7	5.7	6.1	5.0
LPG	3.9	3.8	3.6	3.5	3.7	3.3	3.6	3.4	3.2	3.0	2.5
Exports	24.4	22.3	24.2	23.5	25.7	20.2	17.5	27.1	26.8	28.5	100.0
Oil	21.4	20.9	20.6	20.3	17.5	12.9	12.7	13.9	14.8	16.1	56.7
Gas	3.0	1.4	3.5	3.2	8.2	7.3	4.8	13.3	12.1	12.3	43.3
Gasoline	4.3	4.8	4.6	3.3	2.8	2.3	2.2	1.8	1.6	2.0	7.1
Diesel	2.8	2.1	2.6	2.2	2.6	1.5	1.5	1.4	2.2	3.0	10.6
Heating Oil	6.3	5.6	4.6	4.7	3.7	2.5	2.6	3.5	3.4	3.2	11.3
Aviation Jet	1.2	1.0	1.2	2.0	1.8	1.5	1.7	1.3	1.2	1.5	5.1
LPG	1.4	1.3	1.3	1.2	1.0	1.0	1.0	1.2	0.9	1.0	3.4
CO₂ Emissions (Million tons CO₂)	300.1	302.3	307.8	301.2	294.3	260.5	285.6	277.0	254.7	248.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	110.2	110.1	109.8	105.7	101.2	96.8	99.3	93.9	85.5	82.6	-
Final energy intensity (toe/million \$15ppp)	51.3	51.7	50.2	48.7	47.2	46.6	47.4	44.1	41.7	41.3	-
Total energy intensity (toe/million \$15ppp)	92.8	90.3	88.3	86.4	83.5	81.0	81.3	71.3	71.8	72.4	-

*Heat is included

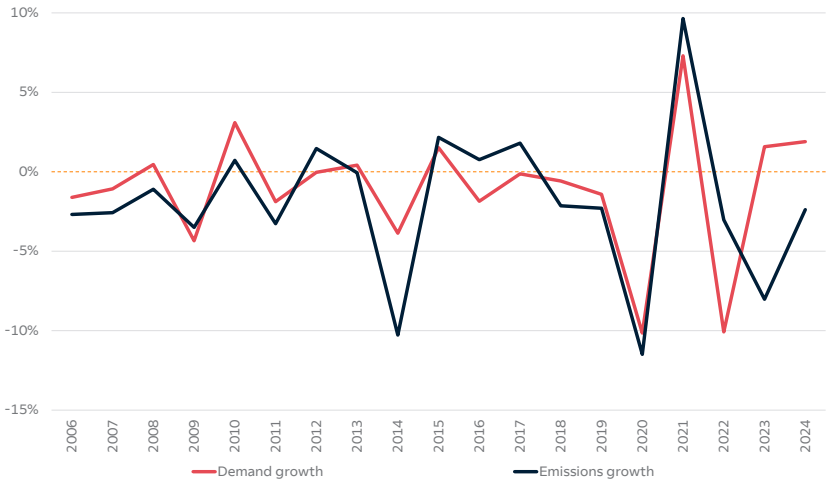
Primary energy demand mix



Electricity generation by source



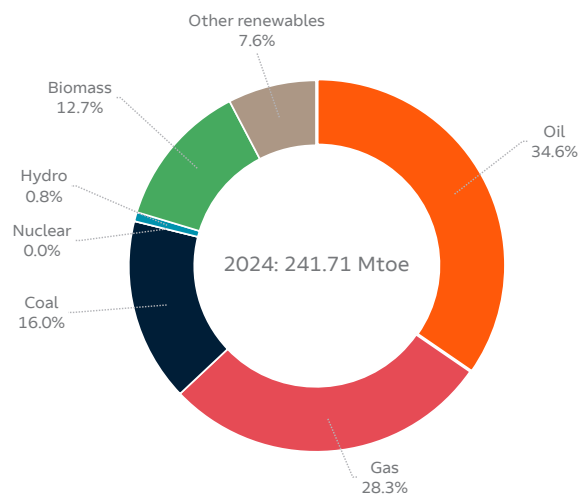
Primary energy demand and CO₂ emissions growth



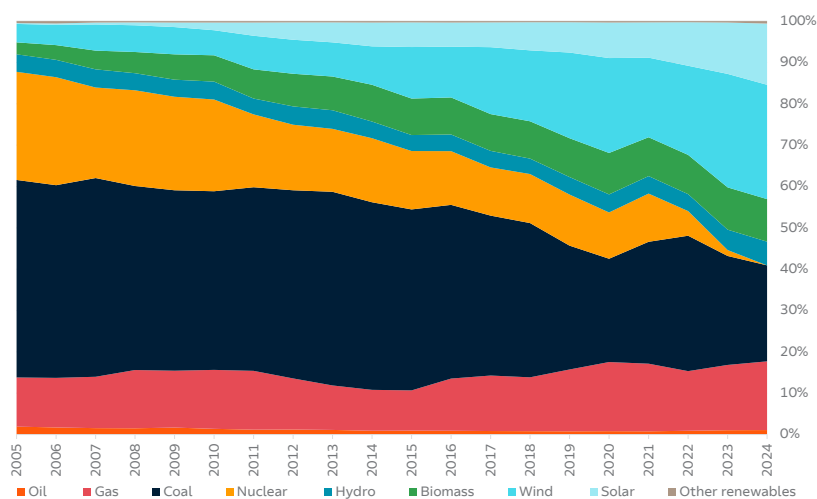
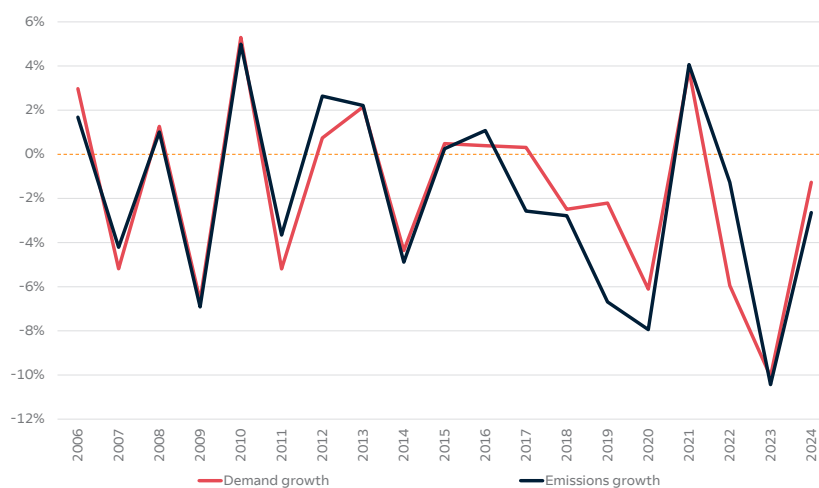
Germany (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	309.3	310.5	311.4	303.7	296.9	278.8	289.4	272.2	244.8	241.7	100.0
Oil	101.4	101.7	103.2	98.2	99.8	94.5	91.3	90.7	83.5	82.5	34.1
Gas	65.2	70.3	75.3	73.5	75.6	74.6	77.9	67.4	64.9	67.4	27.9
Coal	79.5	77.2	71.4	69.6	56.4	44.7	53.9	55.8	42.4	38.0	15.7
Nuclear	23.9	22.1	19.9	19.8	19.6	16.8	18.0	9.0	1.9	0.0	0.0
Hydro	1.6	1.8	1.7	1.5	1.7	1.6	1.7	1.5	1.7	1.9	0.8
Biomass	30.5	30.5	30.8	30.8	30.9	31.5	32.8	32.8	30.8	30.2	12.5
Other renewables	10.3	10.1	12.5	13.2	14.6	15.6	14.2	16.0	17.6	18.2	7.5
Electricity balance of trade*	-3.1	-3.3	-3.5	-3.0	-1.7	-0.4	-0.4	-1.1	2.0	3.4	1.4
Total final consumption, by source	220.1	223.8	226.6	220.7	220.6	213.7	218.8	206.9	193.6	194.1	100.0
Oil	91.7	92.1	93.6	88.6	90.3	85.7	83.1	81.6	76.1	76.7	39.5
Gas	51.4	54.7	55.8	55.8	55.3	54.5	59.5	51.1	47.7	48.1	24.8
Coal	7.4	7.1	7.0	6.5	6.0	6.0	5.6	6.0	5.6	5.9	3.0
Electricity	44.3	44.5	44.6	43.8	42.7	41.5	43.0	40.9	38.9	38.9	20.0
Heat	10.3	10.5	10.6	10.4	10.4	9.8	10.7	9.8	9.4	9.1	4.7
Biomass	15.0	14.8	15.1	15.7	15.9	16.3	17.0	17.5	15.8	15.4	7.9
Electricity generation, by source	55.8	55.9	56.2	55.1	52.2	49.5	51.0	49.8	44.0	42.8	100.0
Oil	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	1.1
Gas	5.4	7.1	7.5	7.2	7.8	8.3	8.3	7.2	7.0	7.1	16.6
Coal	24.4	23.5	21.7	20.6	15.6	12.4	15.0	16.3	11.6	9.9	23.2
Nuclear	7.9	7.3	6.6	6.5	6.5	5.5	5.9	3.0	0.6	0.0	0.0
Hydro	2.1	2.2	2.2	2.1	2.2	2.2	2.1	2.0	2.2	2.5	5.7
Biomass	4.9	5.0	5.0	5.0	4.9	5.0	4.8	4.7	4.5	4.4	10.3
Wind	6.9	6.9	9.1	9.5	10.8	11.4	9.8	10.7	12.1	11.8	27.7
Solar	3.3	3.3	3.4	3.7	3.8	4.3	4.3	5.2	5.5	6.3	14.8
Other renewables	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.3	0.6
Total final consumption, by sector	220.1	223.8	226.6	220.7	220.6	213.7	218.8	206.9	193.6	194.1	100.0
Industry	57.2	57.8	58.5	57.5	55.5	54.5	55.7	52.5	49.5	50.3	25.9
Transport	55.2	56.6	57.3	58.1	58.7	54.0	53.0	53.2	51.5	51.0	26.3
Residential/Commercial	82.5	84.0	84.3	82.5	83.9	83.2	85.7	80.3	74.3	73.5	37.9
Oil final consumption, by sector	91.7	92.1	93.6	88.6	90.3	85.7	83.1	81.6	76.1	76.7	100.0
Industry	4.3	3.6	3.3	3.3	3.2	3.4	3.2	3.3	3.4	3.2	4.2
Transport	51.5	52.9	53.5	54.2	54.9	49.4	48.8	48.8	46.9	46.8	61.1
Residential/Commercial	15.1	14.9	14.8	13.3	15.0	15.6	11.5	12.3	11.2	11.0	14.4
Natural gas final consumption, by sector	51.4	54.7	55.8	55.8	55.3	54.5	59.5	51.1	47.7	48.1	100.0
Industry	19.2	20.0	21.2	20.2	19.5	19.6	20.4	18.1	17.0	17.7	36.7
Transport	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.2
Residential/Commercial	29.4	31.6	31.6	32.1	31.9	31.6	35.8	30.6	28.3	28.1	58.5
Refined products consumption	91.7	92.1	93.6	88.6	90.3	85.7	83.1	81.6	76.1	76.7	100.0
Gasoline	17.3	17.3	17.6	19.6	19.8	18.2	18.3	18.6	18.1	18.6	24.2
Diesel	51.5	52.6	53.2	50.0	52.1	49.7	45.3	45.5	43.2	42.4	55.4
Heating Oil	2.7	1.5	1.5	1.4	1.3	1.2	1.0	0.9	0.6	0.6	0.7
Aviation Jet	0.7	0.8	0.7	0.6	0.7	0.3	0.2	0.3	0.4	0.4	0.5
LPG	2.8	2.7	3.6	3.2	3.3	3.0	3.1	2.9	2.5	2.6	3.4
Imports	189.4	194.5	202.8	198.1	205.8	185.8	190.0	196.5	174.8	180.2	100.0
Oil	130.8	132.2	133.9	127.5	130.2	119.3	120.0	125.8	114.8	120.4	66.8
Gas	58.7	62.3	68.8	70.5	75.7	66.5	70.0	70.7	60.0	59.8	33.2
Gasoline	1.9	1.5	2.2	2.4	3.2	1.9	2.3	1.8	3.5	3.2	1.8
Diesel	18.8	19.8	19.9	18.9	20.3	18.0	16.8	15.9	17.0	14.9	8.3
Heating Oil	1.9	2.4	2.2	2.1	1.6	1.3	1.2	1.1	1.2	1.2	0.7
Aviation Jet	5.1	5.1	6.1	6.7	6.9	3.1	4.1	6.5	6.7	6.6	3.6
LPG	0.8	0.8	1.0	1.1	1.3	1.3	1.5	1.4	1.2	1.3	0.7
Exports	22.4	22.7	23.3	22.3	21.8	22.0	25.3	27.3	24.4	29.2	100.0
Oil	22.4	22.7	23.3	22.3	21.8	22.0	25.3	27.3	24.4	29.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	4.5	5.1	5.7	5.1	4.9	5.4	6.0	6.0	5.6	6.7	23.0
Diesel	8.5	9.6	9.1	8.2	7.4	8.3	9.3	11.1	9.5	11.6	39.6
Heating Oil	3.0	2.1	1.8	2.6	2.6	2.7	3.5	3.3	3.0	3.5	12.0
Aviation Jet	1.2	0.9	1.3	1.4	1.4	0.7	1.0	1.7	1.6	1.8	6.2
LPG	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.5	1.8
CO₂ Emissions (Million tons CO₂)	721.2	729.0	710.3	690.5	644.3	593.1	617.2	609.4	545.8	531.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	181.8	179.7	170.4	163.8	151.4	145.3	145.9	142.1	127.6	124.5	-
Final energy intensity (toe/million \$15ppp)	50.1	49.9	48.9	47.9	47.4	47.8	46.8	44.2	41.8	41.8	-
Total energy intensity (toe/million \$15ppp)	78.0	76.5	74.7	72.1	69.8	68.3	68.4	63.5	57.2	56.6	-

*Heat is included

Primary energy demand mix



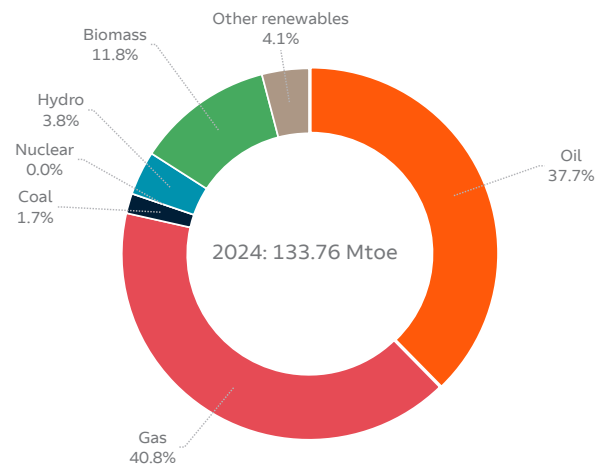
Electricity generation by source

Primary energy demand and CO₂ emissions growth

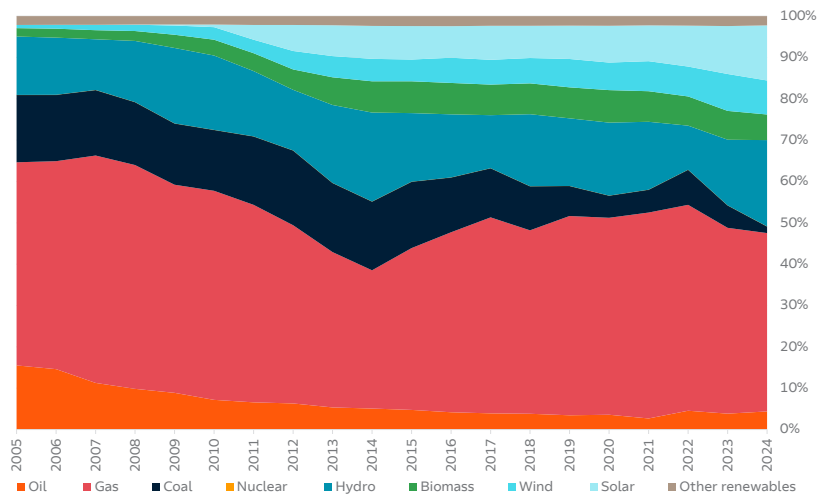
Italy (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	152.6	151.0	153.5	150.6	149.0	137.7	150.0	142.7	136.5	133.8	100.0
Oil	53.6	51.5	52.0	50.9	50.1	43.4	49.4	48.7	49.1	46.8	35.0
Gas	55.3	58.1	61.6	59.5	61.0	58.4	62.6	56.3	50.6	50.7	37.9
Coal	12.3	11.0	9.3	8.6	6.5	5.1	5.5	7.4	4.8	2.2	1.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.9	3.6	3.1	4.2	4.0	4.1	3.9	2.4	3.5	4.7	3.5
Biomass	14.6	14.4	14.9	14.5	14.8	14.6	15.5	14.5	14.0	14.7	11.0
Other renewables	3.2	3.4	3.6	3.5	3.8	3.8	4.0	4.2	4.7	5.0	3.8
Electricity balance of trade*	9.7	9.0	9.0	9.4	8.9	8.4	9.2	9.2	9.8	9.7	7.2
Total final consumption, by source	118.5	117.5	118.6	118.5	117.4	107.1	117.6	113.4	109.8	111.3	100.0
Oil	47.1	46.1	45.5	45.9	45.3	38.3	44.1	46.1	45.4	45.0	40.5
Gas	33.4	33.7	34.4	34.0	33.5	32.3	36.9	31.8	29.6	30.0	27.0
Coal	0.8	0.9	0.6	0.8	0.7	0.5	0.4	0.4	0.4	0.3	0.3
Electricity	24.7	24.6	25.1	25.2	25.1	23.6	25.1	24.7	24.0	24.4	22.0
Heat	4.2	4.3	4.5	4.4	4.5	4.2	1.9	1.9	1.8	1.8	1.6
Biomass	8.3	8.0	8.6	8.3	8.3	8.1	9.2	8.6	8.6	9.6	8.6
Electricity generation, by source	24.3	24.9	25.4	24.9	25.3	24.1	24.9	24.4	22.8	23.3	100.0
Oil	1.2	1.0	1.0	0.9	0.9	0.9	0.7	1.1	0.9	1.0	4.4
Gas	9.5	10.8	12.1	11.1	12.2	11.5	12.4	12.2	10.2	10.1	43.1
Coal	3.9	3.3	3.0	2.7	1.8	1.3	1.4	2.1	1.2	0.4	1.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.0	3.8	3.3	4.3	4.1	4.3	4.1	2.6	3.6	4.9	20.9
Biomass	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.4	6.2
Wind	1.3	1.5	1.5	1.5	1.7	1.6	1.8	1.8	2.0	1.9	8.2
Solar	2.0	1.9	2.1	1.9	2.0	2.1	2.2	2.4	2.6	3.1	13.3
Other renewables	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	2.2
Total final consumption, by sector	118.5	117.5	118.6	118.5	117.4	107.1	117.6	113.4	109.8	111.3	100.0
Industry	24.8	24.9	24.8	24.5	24.8	23.8	26.4	24.6	23.4	23.2	20.8
Transport	36.3	35.9	34.5	35.6	35.9	28.9	34.6	36.5	37.5	37.6	33.8
Residential/Commercial	47.9	47.6	48.5	48.3	46.8	44.7	47.6	43.4	41.4	43.0	38.7
Oil final consumption, by sector	47.1	46.1	45.5	45.9	45.3	38.3	44.1	46.1	45.4	45.0	100.0
Industry	2.8	2.5	1.8	1.9	1.6	1.7	2.8	3.1	2.7	2.1	4.7
Transport	33.4	33.0	31.7	32.5	32.7	26.0	31.5	33.7	34.6	34.8	77.4
Residential/Commercial	2.9	2.8	2.6	2.7	2.5	2.4	2.4	2.2	2.1	2.1	4.8
Natural gas final consumption, by sector	33.4	33.7	34.4	34.0	33.5	32.3	36.9	31.8	29.6	30.0	100.0
Industry	8.3	8.4	8.9	8.6	8.5	8.1	11.7	10.2	9.7	9.8	32.6
Transport	0.9	0.9	0.8	0.9	1.0	0.8	0.9	0.7	0.7	0.6	2.1
Residential/Commercial	23.5	23.6	23.9	23.7	23.2	22.6	23.3	20.0	18.4	18.8	62.5
Refined products consumption	47.1	46.1	45.5	45.9	45.3	38.3	44.1	46.1	45.4	45.0	100.0
Gasoline	8.2	7.8	7.6	7.8	7.9	6.2	7.4	8.3	8.6	8.8	19.6
Diesel	26.2	26.1	24.6	25.6	25.2	21.0	25.1	25.5	25.2	25.3	56.2
Heating Oil	1.5	1.7	1.3	1.2	0.9	0.8	0.9	1.0	0.8	0.6	1.4
Aviation Jet	0.8	0.9	0.9	1.0	1.0	0.4	0.6	1.0	1.7	1.8	3.9
LPG	3.6	3.6	3.7	3.5	3.6	3.2	3.5	3.5	3.5	3.6	8.0
Imports	130.9	135.2	142.0	137.1	138.8	120.1	131.8	137.7	127.3	121.8	100.0
Oil	80.7	81.8	85.0	81.5	80.6	65.7	72.0	78.3	76.7	73.2	60.1
Gas	50.2	53.5	57.0	55.6	58.2	54.4	59.8	59.5	50.6	48.6	39.9
Gasoline	0.5	0.4	0.1	0.4	0.4	0.4	0.3	0.5	0.8	0.7	0.6
Diesel	3.1	4.5	5.1	5.4	5.3	4.7	4.9	5.1	4.6	5.4	4.4
Heating Oil	0.3	0.8	0.8	1.6	1.0	1.2	1.2	1.3	1.0	0.7	0.6
Aviation Jet	1.9	2.1	2.3	2.4	2.6	0.8	0.7	1.6	2.4	2.7	2.2
LPG	2.5	2.6	2.6	2.5	2.7	2.3	2.5	2.8	2.8	2.8	2.3
Exports	28.5	30.1	32.4	30.2	28.4	24.0	28.1	31.9	30.3	26.1	100.0
Oil	28.3	29.9	32.1	29.9	28.2	23.7	26.9	28.1	28.1	25.6	98.0
Gas	0.2	0.2	0.2	0.3	0.3	0.3	1.3	3.8	2.1	0.5	2.0
Gasoline	9.0	8.5	8.9	8.9	8.9	6.6	8.0	8.1	7.6	7.5	28.6
Diesel	9.1	9.5	10.4	9.1	9.8	7.8	8.2	9.7	8.7	8.1	31.2
Heating Oil	3.9	4.5	5.0	4.3	3.6	3.2	4.9	3.3	3.3	3.6	13.9
Aviation Jet	0.0	0.1	0.2	0.3	0.3	0.1	0.0	0.0	0.1	0.3	1.1
LPG	0.3	0.4	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.4	1.7
CO₂ Emissions (Million tons CO₂)	327.3	323.5	320.0	315.8	308.1	274.4	305.9	310.4	285.5	278.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	145.3	141.9	138.1	135.2	131.3	128.3	131.4	127.4	116.3	112.6	-
Final energy intensity (toe/million \$15ppp)	49.7	48.8	47.8	47.7	47.1	47.0	48.0	44.2	42.9	43.2	-
Total energy intensity (toe/million \$15ppp)	67.8	66.2	66.3	64.5	63.5	64.4	64.4	58.5	55.6	54.1	-

*Heat is included

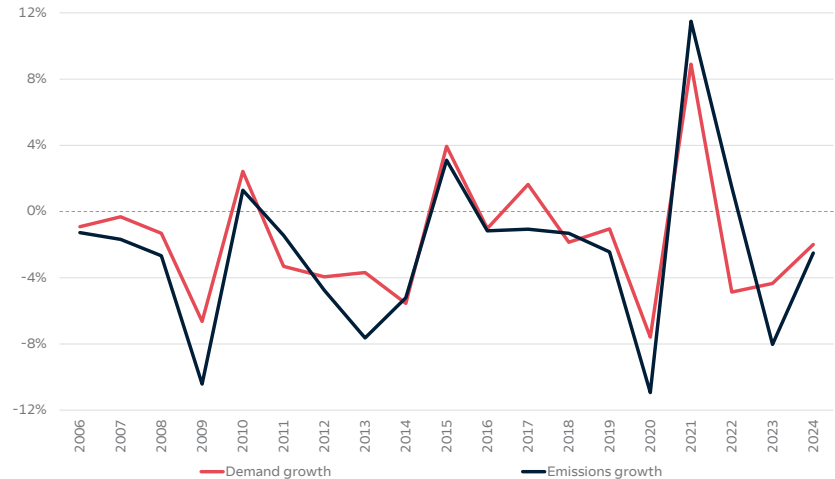
Primary energy demand mix



Electricity generation by source



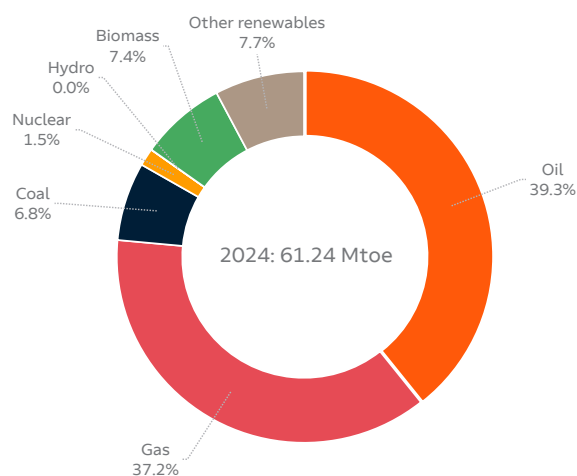
Primary energy demand and CO₂ emissions growth



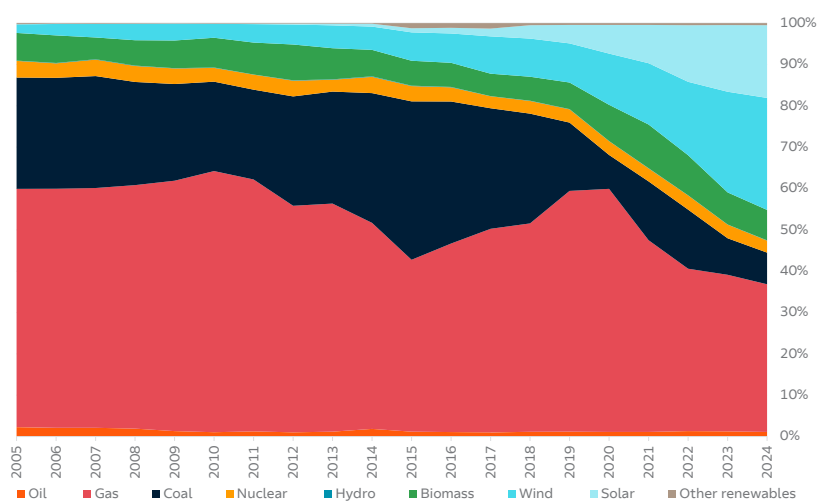
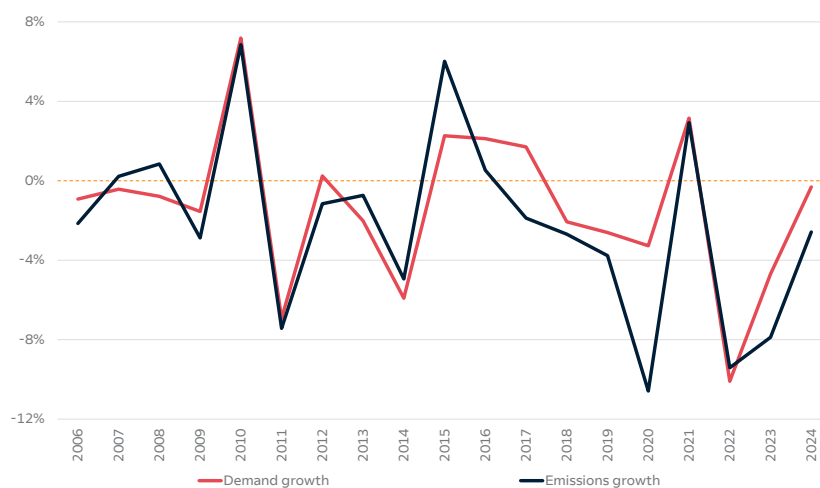
Netherlands (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	72.5	74.1	75.3	73.8	71.9	69.5	71.7	64.5	61.4	61.2	100.0
Oil	26.2	27.3	28.2	27.3	25.8	25.1	25.7	24.5	25.2	24.0	39.2
Gas	28.7	30.1	31.3	30.9	32.2	31.6	30.4	23.6	22.5	22.7	37.1
Coal	11.1	10.3	9.2	8.3	6.4	4.1	5.6	5.5	3.8	4.2	6.8
Nuclear	1.1	1.0	0.9	0.9	1.0	1.1	1.0	1.1	1.0	0.9	1.5
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	3.6	3.7	3.9	4.2	4.5	5.3	6.0	6.3	4.8	4.6	7.4
Other renewables	0.7	0.8	1.1	1.2	1.5	2.1	2.5	3.3	4.2	4.7	7.7
Electricity balance of trade*	1.1	0.8	0.7	1.0	0.5	0.3	0.5	0.1	-0.1	0.1	0.1
Total final consumption, by source	55.4	57.0	58.1	57.4	55.8	54.4	55.7	49.2	48.3	48.8	100.0
Oil	23.2	24.3	25.0	24.4	23.0	22.8	22.5	20.8	21.5	21.0	43.1
Gas	19.3	19.8	20.1	19.6	19.3	18.4	19.8	15.5	14.3	15.0	30.7
Coal	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	1.1
Electricity	8.9	9.0	9.1	9.3	9.2	9.1	9.2	8.9	8.7	9.1	18.6
Heat	2.4	2.3	2.2	2.1	2.2	2.1	2.2	2.0	1.8	1.8	3.8
Biomass	1.1	1.1	1.2	1.5	1.6	1.5	1.6	1.5	1.4	1.3	2.7
Electricity generation, by source	9.5	9.9	10.1	9.8	10.4	10.6	10.5	10.5	10.4	10.6	100.0
Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Gas	3.9	4.5	5.0	5.0	6.1	6.2	4.9	4.1	4.0	3.8	35.7
Coal	3.6	3.4	2.9	2.6	1.7	0.9	1.5	1.5	0.9	0.8	7.6
Nuclear	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	2.9
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Biomass	0.6	0.6	0.5	0.6	0.7	0.9	1.1	1.0	0.8	0.8	7.4
Wind	0.6	0.7	0.9	0.9	1.0	1.3	1.6	1.9	2.5	2.9	27.1
Solar	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.4	1.7	1.9	17.6
Other renewables	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.5
Total final consumption, by sector	55.4	57.0	58.1	57.4	55.8	54.4	55.7	49.2	48.3	48.8	100.0
Industry	13.1	13.8	13.7	13.6	13.2	13.3	13.3	12.2	11.6	12.1	24.8
Transport	10.0	10.0	10.4	10.6	10.6	9.1	9.2	9.2	9.6	8.9	18.2
Residential/Commercial	16.2	16.5	16.3	16.2	15.7	15.1	16.3	14.4	13.2	13.5	27.6
Oil final consumption, by sector	23.2	24.3	25.0	24.4	23.0	22.8	22.5	20.8	21.5	21.0	100.0
Industry	3.0	3.4	3.3	3.3	3.1	3.3	3.2	3.0	3.0	2.9	13.7
Transport	9.6	9.6	9.9	9.9	9.7	8.3	8.3	8.3	8.6	8.0	38.1
Residential/Commercial	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.1
Natural gas final consumption, by sector	19.3	19.8	20.1	19.6	19.3	18.4	19.8	15.5	14.3	15.0	100.0
Industry	4.8	5.0	5.2	5.1	5.1	5.0	5.1	4.4	4.2	4.6	30.5
Transport	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Residential/Commercial	9.9	10.2	10.0	9.8	9.4	8.8	9.9	7.9	6.9	7.0	46.6
Refined products consumption	21.0	22.0	22.8	22.7	21.5	21.2	21.0	19.3	18.8	19.1	100.0
Gasoline	3.8	3.9	4.0	4.1	4.2	3.5	3.6	3.7	4.1	3.9	20.6
Diesel	6.9	6.8	6.9	6.9	6.6	6.0	5.8	5.7	5.6	5.2	27.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
LPG	2.8	2.3	2.0	2.3	1.9	2.1	1.7	1.6	1.9	2.1	11.0
Imports	182.6	186.3	168.2	171.6	173.3	158.3	165.9	178.0	171.6	165.4	100.0
Oil	156.5	156.3	151.0	149.3	147.7	132.3	143.7	150.2	142.7	140.7	85.0
Gas	26.1	30.0	17.2	22.3	25.5	25.9	22.1	27.8	28.9	24.8	15.0
Gasoline	10.3	10.2	11.1	7.9	7.5	7.8	8.6	8.0	6.8	8.1	4.9
Diesel	16.9	19.5	17.4	12.5	13.2	11.9	9.2	13.1	14.0	14.0	8.5
Heating Oil	37.8	31.0	15.7	12.8	11.5	19.5	27.2	24.4	23.6	24.0	14.5
Aviation Jet	3.2	4.6	3.8	3.5	3.6	4.2	4.6	4.0	2.8	4.4	2.6
LPG	5.0	4.0	3.5	4.3	3.6	3.6	3.4	3.4	3.7	3.9	2.3
Exports	150.2	154.8	129.6	126.7	122.9	104.7	121.7	120.9	120.9	113.0	100.0
Oil	113.6	115.0	111.0	109.0	105.8	92.9	109.8	108.2	106.6	101.3	89.6
Gas	36.6	39.8	18.6	17.7	17.1	11.7	11.9	12.7	14.3	11.7	10.4
Gasoline	21.4	20.1	20.8	23.8	26.6	20.9	25.3	25.2	21.5	19.6	17.3
Diesel	27.6	31.1	30.2	24.1	25.3	24.1	28.1	24.5	26.6	25.7	22.7
Heating Oil	35.9	31.1	14.8	11.1	9.5	18.1	23.8	23.7	22.2	19.5	17.2
Aviation Jet	6.8	8.5	7.8	8.5	8.4	6.2	5.7	8.0	8.6	9.2	8.1
LPG	2.8	2.6	2.2	2.4	2.3	2.1	2.5	2.2	2.3	2.0	1.8
CO₂ Emissions (Million tons CO₂)	155.4	156.2	153.3	149.2	143.5	128.3	132.1	119.7	110.2	107.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	180.0	176.6	168.6	160.5	150.9	140.4	136.0	117.3	108.0	104.2	-
Final energy intensity (toe/million \$15ppp)	50.1	50.0	48.8	48.0	46.1	45.5	44.1	38.1	36.8	36.6	-
Total energy intensity (toe/million \$15ppp)	84.0	83.8	82.9	79.4	75.6	76.0	73.8	63.2	60.2	59.4	-

*Heat is included

Primary energy demand mix



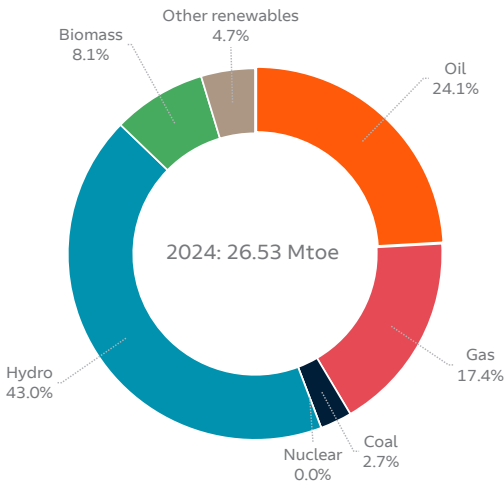
Electricity generation by source

Primary energy demand and CO₂ emissions growth

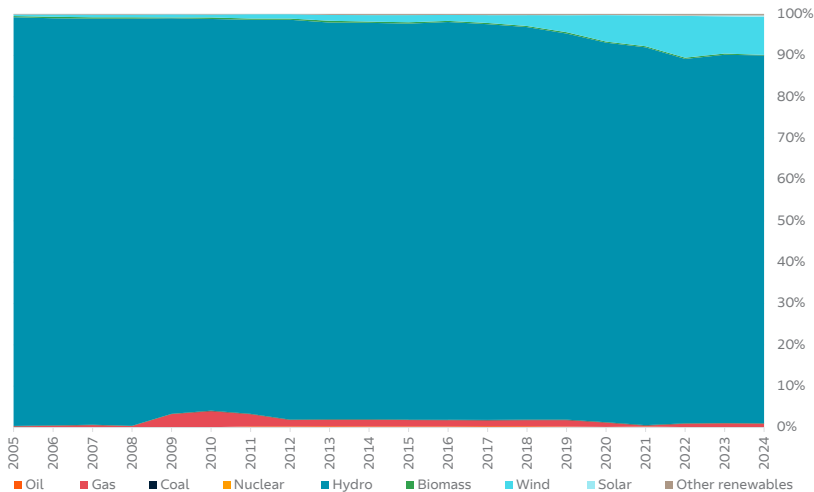
Norway (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	25.2	27.9	29.5	29.5	28.0	27.6	28.6	24.3	27.0	26.5	100.0
Oil	5.8	8.8	10.4	9.7	8.8	8.9	8.6	6.0	7.9	6.7	25.4
Gas	6.2	5.6	5.0	5.5	5.0	4.5	5.0	4.0	4.6	4.9	18.3
Coal	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	2.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	11.8	12.3	12.2	12.0	10.8	12.2	12.4	11.0	11.8	12.0	45.2
Biomass	1.5	1.7	1.9	1.9	2.0	1.9	2.1	2.1	2.2	2.3	8.5
Other renewables	0.2	0.2	0.2	0.3	0.5	0.9	1.0	1.3	1.2	1.3	4.9
Electricity balance of trade*	-1.1	-1.3	-1.2	-0.7	0.1	-1.6	-1.3	-0.9	-1.3	-1.4	-5.2
Total final consumption, by source	21.0	21.2	21.5	21.6	21.5	21.1	21.9	21.1	21.1	21.4	100.0
Oil	8.4	8.3	8.2	8.3	8.0	7.7	7.9	7.8	7.9	7.8	36.2
Gas	1.0	0.9	1.0	0.9	1.0	0.9	0.8	0.7	0.7	0.8	3.5
Coal	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	2.7
Electricity	9.6	9.8	9.9	10.1	10.0	10.0	10.5	9.9	9.9	10.1	47.3
Heat	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6	2.9
Biomass	1.0	1.1	1.4	1.3	1.4	1.4	1.5	1.5	1.4	1.6	7.4
Electricity generation, by source	12.4	12.8	12.9	12.7	11.6	13.3	13.6	12.6	13.3	13.6	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gas	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.9
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	11.9	12.3	12.3	12.0	10.8	12.3	12.4	11.1	11.9	12.1	89.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.2	0.2	0.2	0.3	0.5	0.9	1.0	1.3	1.2	1.3	9.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Total final consumption, by sector	21.0	21.2	21.5	21.6	21.5	21.1	21.9	21.1	21.1	21.4	100.0
Industry	6.0	6.0	6.1	6.2	6.2	6.3	6.6	6.4	6.0	6.3	29.3
Transport	5.3	5.3	5.3	5.1	5.1	4.8	5.0	5.2	5.0	4.8	22.5
Residential/Commercial	6.7	7.0	7.0	7.1	7.0	6.9	7.3	6.7	6.9	7.0	32.7
Oil final consumption, by sector	8.4	8.3	8.2	8.3	8.0	7.7	7.9	7.8	7.9	7.8	100.0
Industry	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	11.7
Transport	5.0	4.8	4.6	4.6	4.5	4.2	4.4	4.5	4.2	3.9	50.3
Residential/Commercial	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	3.7
Natural gas final consumption, by sector	1.0	0.9	1.0	0.9	1.0	0.9	0.8	0.7	0.7	0.8	100.0
Industry	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	33.5
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	12.3
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Refined products consumption	8.4	8.3	8.2	8.3	8.0	7.7	7.9	7.8	7.9	7.8	100.0
Gasoline	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	6.5
Diesel	4.7	4.7	4.5	4.6	4.4	4.3	4.5	4.5	4.4	4.0	51.6
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	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.4	4.7
LPG	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	7.5
Imports	6.5	6.3	7.9	9.1	9.6	9.3	8.9	7.9	9.4	8.7	100.0
Oil	6.5	6.3	7.9	9.1	9.6	9.3	8.7	7.8	9.3	8.6	99.3
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.7
Gasoline	0.3	0.4	0.4	0.4	0.5	0.4	0.5	0.7	0.6	0.5	5.8
Diesel	1.7	1.8	1.8	1.6	2.1	2.5	2.7	3.9	3.4	3.3	37.7
Heating Oil	1.6	1.3	1.8	1.4	1.0	0.8	0.9	0.0	1.3	1.3	14.6
Aviation Jet	0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.3	0.4	5.2
LPG	0.2	0.4	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.3	3.1
Exports	186.2	185.4	192.8	184.9	177.6	187.9	193.7	198.2	198.8	205.5	100.0
Oil	89.4	88.6	88.8	83.7	81.6	94.4	97.9	93.0	99.6	98.6	48.0
Gas	96.7	96.8	104.0	101.3	95.9	93.5	95.7	105.2	99.2	106.9	52.0
Gasoline	3.3	3.5	3.8	4.1	3.8	3.3	4.1	3.9	3.8	3.9	1.9
Diesel	3.4	2.8	4.4	4.2	4.2	3.4	3.5	2.4	2.7	2.1	1.0
Heating Oil	1.4	1.0	1.4	1.4	1.6	1.6	0.8	0.0	0.3	0.2	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.1	0.0
LPG	6.5	7.0	7.1	7.0	6.5	6.3	5.9	4.5	4.8	5.2	2.5
CO₂ Emissions (Million tons CO₂)	39.9	39.1	38.9	38.6	37.5	36.1	36.2	35.6	34.4	33.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	126.5	122.7	119.1	117.0	112.5	109.6	106.0	101.0	97.1	91.8	-
Final energy intensity (toe/million \$15ppp)	58.7	59.1	58.1	57.9	56.8	56.6	57.2	53.6	52.8	52.0	-
Total energy intensity (toe/million \$15ppp)	80.0	87.6	90.1	89.4	84.0	84.1	83.7	69.1	76.4	73.5	-

*Heat is included

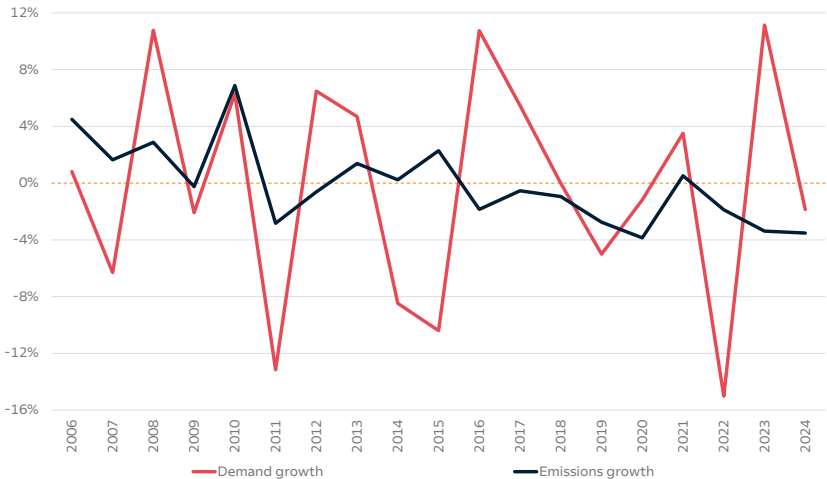
Primary energy demand mix



Electricity generation by source



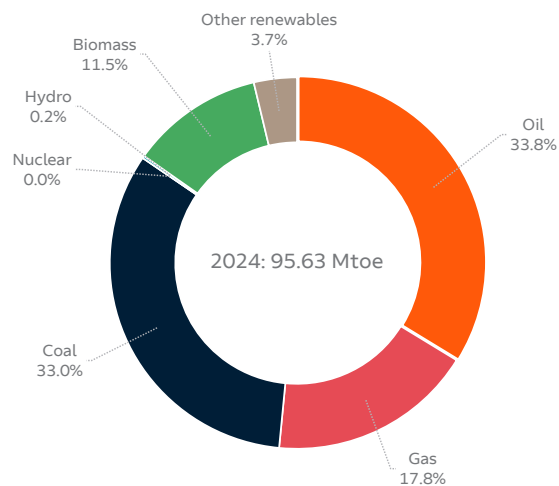
Primary energy demand and CO₂ emissions growth



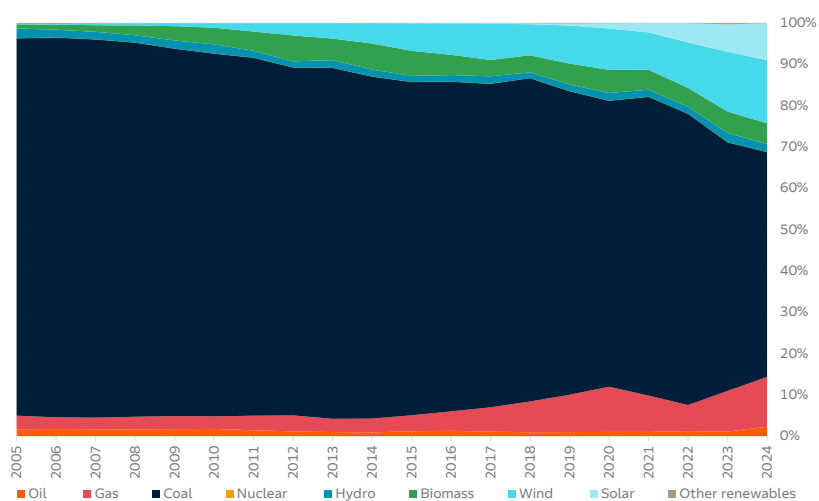
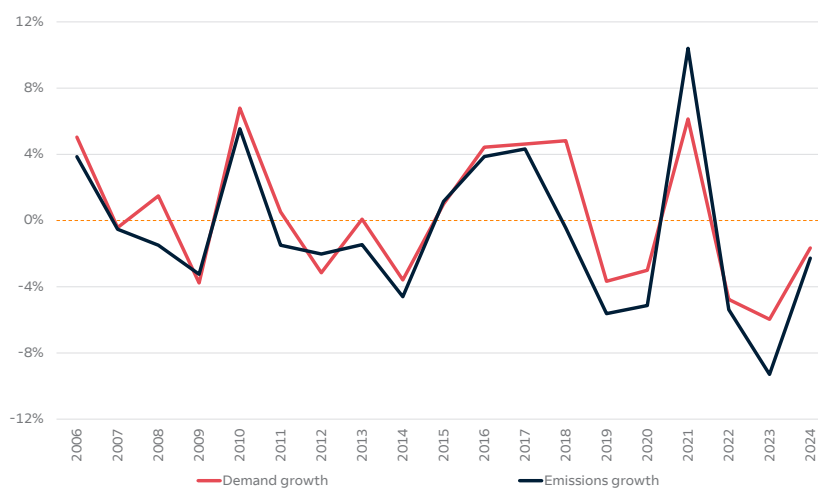
Poland (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	95.6	99.9	104.5	109.5	105.5	102.3	108.6	103.4	97.2	95.6	100.0
Oil	24.0	26.4	29.7	30.4	30.8	29.5	31.1	32.2	32.2	32.2	33.7
Gas	13.8	14.6	15.4	16.1	16.2	17.1	18.2	15.0	15.8	16.9	17.7
Coal	48.3	49.1	49.4	49.4	44.0	40.9	45.4	42.3	34.5	31.5	33.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Biomass	8.3	8.1	8.1	11.7	11.9	11.9	11.6	11.2	11.1	11.0	11.5
Other renewables	0.9	1.1	1.3	1.1	1.4	1.5	1.7	2.4	3.0	3.5	3.7
Electricity balance of trade*	0.1	0.3	0.3	0.6	1.0	1.3	0.2	-0.0	0.5	0.3	0.3
Total final consumption, by source	65.9	70.2	74.6	78.1	76.8	75.3	78.7	75.8	72.7	72.2	100.0
Oil	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.0	29.3	30.0	41.5
Gas	10.3	11.0	11.0	10.9	10.8	10.9	12.5	11.3	10.7	11.0	15.3
Coal	11.3	11.6	11.8	11.2	9.5	9.4	9.2	7.7	7.1	6.2	8.6
Electricity	11.0	11.4	11.7	12.1	12.1	11.8	12.3	12.0	11.5	11.4	15.8
Heat	5.5	5.7	5.9	5.7	5.7	5.7	6.1	5.7	5.3	5.0	6.9
Biomass	5.9	6.1	6.4	9.9	9.7	9.4	9.3	9.0	8.7	8.6	12.0
Electricity generation, by source	14.2	14.3	14.7	14.6	14.1	13.6	15.4	15.5	14.4	14.6	100.0
Oil	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	2.4
Gas	0.5	0.7	0.9	1.1	1.3	1.5	1.4	1.0	1.4	1.8	12.0
Coal	11.4	11.4	11.5	11.4	10.4	9.4	11.2	10.9	8.7	8.0	54.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	2.0
Biomass	0.9	0.7	0.6	0.6	0.7	0.8	0.7	0.7	0.8	0.7	5.0
Wind	0.9	1.1	1.3	1.1	1.3	1.4	1.4	1.7	2.1	2.2	15.3
Solar	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.7	1.0	1.3	8.9
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	65.9	70.2	74.6	78.1	76.8	75.3	78.7	75.8	72.7	72.2	100.0
Industry	14.1	14.6	15.8	16.3	16.5	15.9	16.3	15.0	13.7	13.9	19.2
Transport	16.2	18.2	21.0	21.9	22.4	21.4	23.2	23.9	23.7	24.0	33.2
Residential/Commercial	26.7	28.3	27.9	30.3	28.6	28.4	30.2	28.1	27.4	26.3	36.5
Oil final consumption, by sector	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.0	29.3	30.0	100.0
Industry	0.6	0.6	0.7	0.7	0.9	0.9	0.9	0.9	1.0	1.1	3.6
Transport	15.3	17.4	20.2	20.7	21.1	20.1	21.8	22.3	22.1	22.2	74.2
Residential/Commercial	1.0	1.0	1.0	1.1	1.1	1.0	1.0	1.0	0.8	0.9	3.0
Natural gas final consumption, by sector	10.3	11.0	11.0	10.9	10.8	10.9	12.5	11.3	10.7	11.0	100.0
Industry	3.2	3.4	3.7	3.9	3.9	3.9	4.2	3.7	3.7	4.4	40.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Residential/Commercial	4.9	5.4	5.1	4.9	5.0	5.0	6.2	5.9	5.6	5.4	48.5
Refined products consumption	22.1	24.3	27.8	28.4	29.1	28.0	29.3	30.0	29.3	30.0	100.0
Gasoline	3.7	3.9	4.2	4.4	4.5	4.2	4.7	5.0	5.2	5.4	18.1
Diesel	12.2	14.1	16.7	17.2	17.4	17.0	18.2	18.1	18.0	18.1	60.4
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	2.7	2.9	2.9	3.1	2.7	2.8	2.9	2.9	2.9	9.7
Imports	42.5	44.8	48.1	49.9	50.6	48.0	49.9	50.7	51.5	53.1	100.0
Oil	32.5	32.6	35.1	36.9	36.2	33.5	34.5	38.0	38.1	39.8	74.9
Gas	10.0	12.2	13.0	13.1	14.5	14.5	15.3	12.7	13.4	13.3	25.1
Gasoline	0.4	0.4	0.5	0.5	0.4	0.4	0.8	0.9	1.1	1.2	2.2
Diesel	2.1	3.8	5.3	4.9	4.6	4.4	5.6	5.4	7.2	7.2	13.5
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LPG	2.2	2.4	2.7	2.8	2.9	2.4	2.5	2.8	3.0	2.7	5.1
Exports	8.4	7.9	6.3	6.8	6.5	5.8	4.2	5.9	6.4	6.7	100.0
Oil	8.4	7.2	5.3	6.2	5.4	4.7	4.1	5.3	5.9	6.6	98.4
Gas	0.0	0.7	1.0	0.6	1.1	1.2	0.1	0.5	0.6	0.1	1.6
Gasoline	0.8	0.5	0.2	0.4	0.3	0.2	0.1	0.1	0.3	0.3	4.3
Diesel	1.8	1.1	0.2	0.0	0.1	0.3	0.1	1.2	1.7	2.4	36.1
Heating Oil	2.6	2.4	2.4	2.7	2.2	1.1	1.0	1.1	1.3	1.6	23.8
Aviation Jet	0.5	0.5	0.2	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.3
LPG	0.2	0.3	0.5	0.6	0.5	0.4	0.4	0.6	0.7	0.5	7.0
CO₂ Emissions (Million tons CO₂)	283.3	294.2	307.0	305.6	288.4	273.6	302.0	285.8	259.2	253.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	276.3	278.5	276.3	258.9	233.6	226.2	233.6	210.0	190.2	180.7	-
Final energy intensity (toe/million \$15ppp)	58.8	61.1	61.8	61.3	57.7	57.5	56.8	51.7	50.1	48.3	-
Total energy intensity (toe/million \$15ppp)	93.2	94.5	94.0	92.8	85.5	84.6	84.0	76.0	71.3	68.2	-

*Heat is included

Primary energy demand mix



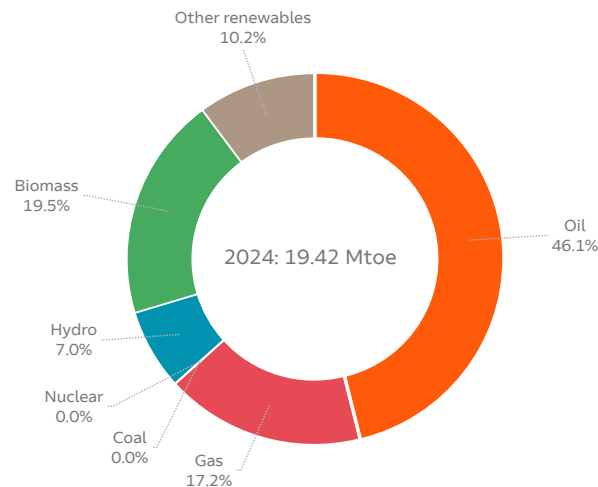
Electricity generation by source

Primary energy demand and CO₂ emissions growth

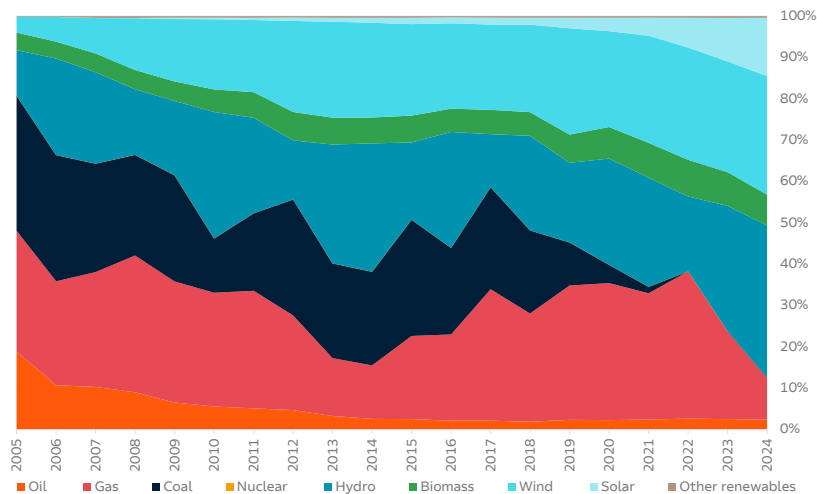
Portugal (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	22.0	21.8	22.8	22.1	21.8	20.2	20.2	20.3	19.7	19.4	100.0
Oil	9.4	9.3	9.4	8.9	9.4	8.5	8.5	8.9	8.6	8.4	43.3
Gas	4.1	4.3	5.4	5.0	5.3	5.2	5.0	4.8	3.8	3.1	16.1
Coal	3.3	2.8	3.2	2.7	1.2	0.6	0.2	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	0.7	1.4	0.5	1.1	0.8	1.0	1.0	0.6	1.0	1.3	6.6
Biomass	3.0	3.1	3.1	3.1	3.2	3.3	3.4	3.5	3.5	3.6	18.3
Other renewables	1.1	1.1	1.1	1.2	1.3	1.2	1.3	1.4	1.6	1.9	9.5
Electricity balance of trade*	0.5	-0.2	0.1	0.1	0.6	0.4	0.7	1.1	1.2	1.2	6.2
Total final consumption, by source	16.3	16.2	16.5	16.2	16.8	15.6	16.2	16.3	16.1	16.0	100.0
Oil	8.2	8.1	8.3	7.8	8.3	7.4	7.7	7.8	7.6	7.4	46.0
Gas	1.6	1.6	1.7	1.8	1.8	1.7	1.9	1.7	1.7	1.7	10.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.9	4.0	4.0	4.1	4.1	4.0	4.1	4.2	4.3	4.3	27.1
Heat	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	1.3
Biomass	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4	15.2
Electricity generation, by source	4.5	5.2	5.1	5.1	4.6	4.6	4.4	4.2	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	2.4
Gas	0.9	1.1	1.6	1.3	1.5	1.5	1.3	1.5	0.9	0.4	10.1
Coal	1.3	1.1	1.3	1.0	0.5	0.2	0.1	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	0.8	1.5	0.7	1.2	0.9	1.2	1.2	0.8	1.3	1.6	36.9
Biomass	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	7.5
Wind	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.2	28.7
Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	14.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Total final consumption, by sector	16.3	16.2	16.5	16.2	16.8	15.6	16.2	16.3	16.1	16.0	100.0
Industry	4.4	4.4	4.5	4.5	4.6	4.4	4.5	4.5	4.3	4.6	28.5
Transport	5.6	5.7	5.8	5.9	6.0	5.0	5.5	5.8	6.2	6.1	38.2
Residential/Commercial	4.5	4.5	4.5	4.6	4.6	4.5	4.5	4.5	4.6	4.6	28.9
Oil final consumption, by sector	8.2	8.1	8.3	7.8	8.3	7.4	7.7	7.8	7.6	7.4	100.0
Industry	0.7	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.7	10.1
Transport	5.2	5.4	5.5	5.5	5.7	4.7	5.1	5.4	5.8	5.7	76.8
Residential/Commercial	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	5.7
Natural gas final consumption, by sector	1.6	1.6	1.7	1.8	1.8	1.7	1.9	1.7	1.7	1.7	100.0
Industry	1.1	1.1	1.2	1.2	1.3	1.2	1.3	1.2	1.1	1.1	66.6
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Residential/Commercial	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	28.0
Refined products consumption	8.2	8.1	8.3	7.8	8.3	7.4	7.7	7.8	7.6	7.4	100.0
Gasoline	1.1	1.1	1.1	1.1	1.1	0.9	1.0	1.1	1.2	1.3	17.2
Diesel	4.5	4.7	4.7	4.8	4.9	4.3	4.5	4.7	4.9	4.7	63.8
Heating Oil	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	1.1
Aviation Jet	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	2.7
LPG	0.9	0.9	0.8	0.7	0.9	0.9	0.8	0.8	0.6	0.5	6.6
Imports	22.2	22.0	23.9	22.0	21.7	19.9	19.6	20.4	18.4	18.6	100.0
Oil	18.1	17.8	18.4	16.9	16.5	14.7	14.7	15.4	14.7	15.5	83.3
Gas	4.1	4.3	5.4	5.1	5.3	5.1	5.0	5.0	3.7	3.1	16.7
Gasoline	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.4	0.3	1.7
Diesel	0.8	1.0	0.9	0.9	1.3	0.9	1.5	1.3	1.6	1.3	6.8
Heating Oil	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.3
Aviation Jet	0.0	0.0	0.1	0.1	0.3	0.0	0.2	0.4	0.4	0.3	1.4
LPG	0.8	0.8	0.7	0.6	0.8	0.8	0.8	0.8	0.6	0.4	2.4
Exports	6.9	6.8	7.0	5.4	4.9	5.3	5.1	4.6	4.1	4.8	100.0
Oil	6.9	6.8	7.0	5.4	4.9	5.3	5.1	4.6	4.1	4.8	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.9	1.8	2.0	1.7	1.7	1.3	1.5	1.6	1.3	1.8	37.0
Diesel	2.3	2.1	2.1	1.2	0.9	1.3	1.4	0.6	0.3	0.7	15.5
Heating Oil	1.6	1.6	1.5	1.2	1.1	1.5	1.5	1.7	1.4	1.1	22.9
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
LPG	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	1.2
CO₂ Emissions (Million tons CO₂)	47.8	47.3	51.7	48.0	43.2	37.2	35.6	36.1	34.2	32.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	155.6	151.0	159.2	144.0	126.0	118.5	107.2	101.8	94.2	87.4	-
Final energy intensity (toe/million \$15ppp)	48.7	48.0	47.1	46.4	45.7	45.9	45.1	43.1	42.9	42.8	-
Total energy intensity (toe/million \$15ppp)	71.6	69.7	70.3	66.1	63.7	64.3	60.7	57.3	54.2	52.5	-

*Heat is included

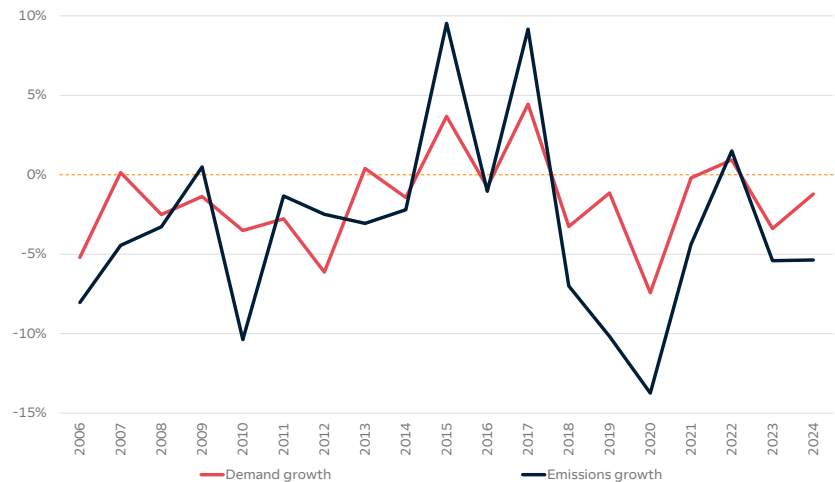
Primary energy demand mix



Electricity generation by source



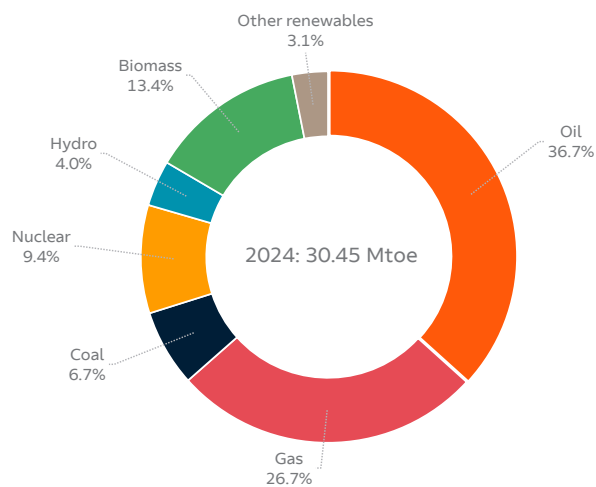
Primary energy demand and CO₂ emissions growth



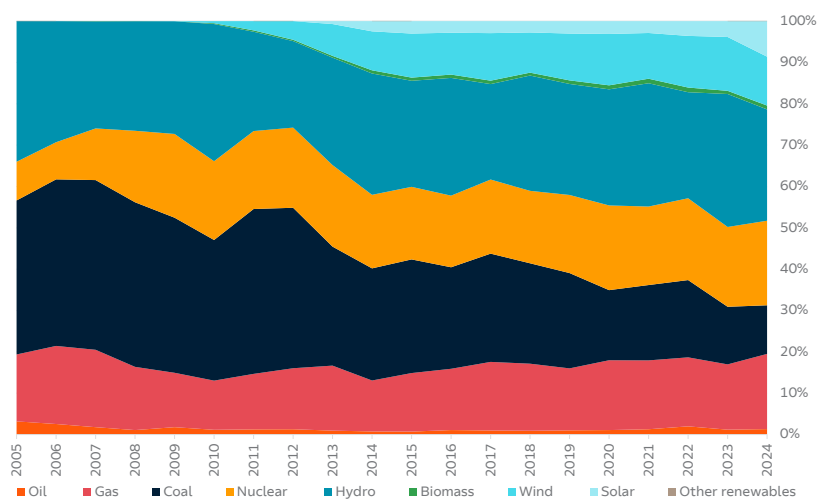
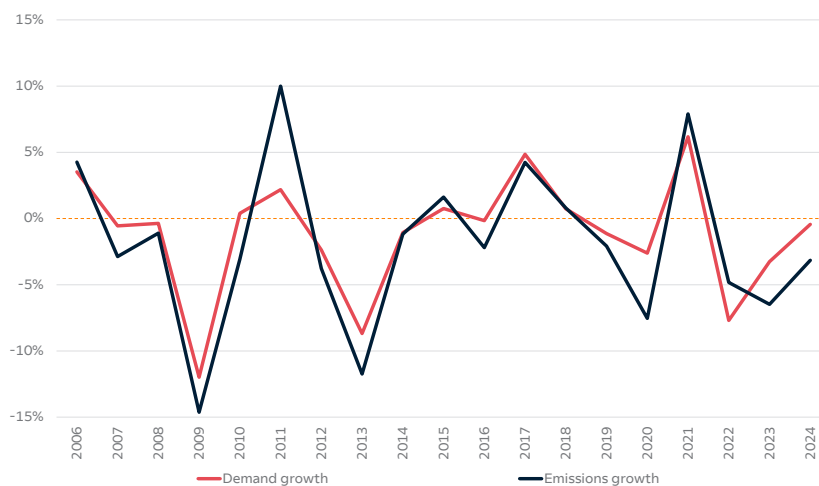
Romania (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	31.8	31.7	33.3	33.5	33.1	32.3	34.2	31.6	30.6	30.4	100.0
Oil	8.5	8.6	9.4	9.7	9.8	9.7	10.5	10.5	11.1	11.1	36.4
Gas	8.9	9.0	9.6	9.8	9.2	9.6	9.8	8.3	7.8	8.1	26.5
Coal	5.9	5.3	5.4	5.1	4.9	3.5	4.1	3.5	2.6	2.0	6.6
Nuclear	3.0	2.9	3.0	3.0	2.9	3.0	2.9	2.9	2.9	2.8	9.3
Hydro	1.4	1.6	1.2	1.5	1.3	1.3	1.5	1.2	1.6	1.2	3.9
Biomass	3.8	4.0	4.0	4.0	4.1	4.2	4.5	4.3	4.1	4.0	13.3
Other renewables	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.9	3.1
Electricity balance of trade*	-0.6	-0.4	-0.2	-0.2	0.2	0.3	0.2	0.1	-0.2	0.3	0.9
Total final consumption, by source	22.7	23.1	23.9	24.4	24.8	24.7	26.4	24.5	23.8	24.3	100.0
Oil	7.6	7.9	8.3	8.5	9.0	8.8	9.3	9.6	10.0	10.5	43.0
Gas	5.6	5.5	5.9	6.1	5.9	6.2	6.9	5.3	5.0	5.1	21.2
Coal	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.7	0.4	0.2	1.0
Electricity	3.7	3.7	3.8	3.9	3.9	3.8	4.0	3.7	3.6	3.7	15.2
Heat	1.3	1.3	1.3	1.3	1.1	1.0	1.0	0.9	0.8	0.8	3.3
Biomass	3.6	3.7	3.8	3.8	4.0	4.1	4.4	4.3	4.0	4.0	16.4
Electricity generation, by source	5.7	5.6	5.5	5.6	5.1	4.8	5.1	4.8	5.0	4.6	100.0
Oil	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3
Gas	0.8	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	18.2
Coal	1.6	1.4	1.4	1.4	1.2	0.8	0.9	0.9	0.7	0.5	11.7
Nuclear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	20.5
Hydro	1.5	1.6	1.3	1.6	1.4	1.4	1.5	1.2	1.6	1.2	26.9
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.9
Wind	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	11.8
Solar	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.4	8.6
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	22.7	23.1	23.9	24.4	24.8	24.7	26.4	24.5	23.8	24.3	100.0
Industry	6.4	6.2	6.4	6.6	6.6	6.4	6.8	5.7	4.9	5.0	20.4
Transport	5.4	5.8	6.2	6.4	6.6	6.5	6.9	7.5	7.8	8.1	33.4
Residential/Commercial	9.1	9.2	9.5	9.7	9.6	9.8	10.5	9.7	9.5	9.6	39.4
Oil final consumption, by sector	7.6	7.9	8.3	8.5	9.0	8.8	9.3	9.6	10.0	10.5	100.0
Industry	1.0	0.9	0.9	1.0	1.2	1.1	1.1	1.1	1.1	1.2	11.4
Transport	5.1	5.4	5.8	6.0	6.1	5.9	6.3	6.8	7.1	7.4	71.1
Residential/Commercial	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	3.1
Natural gas final consumption, by sector	5.6	5.5	5.9	6.1	5.9	6.2	6.9	5.3	5.0	5.1	100.0
Industry	2.2	2.1	2.2	2.3	2.1	2.2	2.4	1.8	1.4	1.5	28.9
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	3.0	3.0	3.2	3.3	3.3	3.5	4.0	3.5	3.4	3.6	69.4
Refined products consumption	7.5	7.9	8.3	8.5	9.0	8.7	9.2	9.6	10.0	10.4	100.0
Gasoline	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.5	1.5	14.8
Diesel	4.4	4.7	5.1	5.3	5.5	5.4	5.9	6.4	6.7	7.0	66.7
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.4
LPG	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	4.6
Imports	9.8	11.6	12.1	12.9	14.2	12.4	14.1	14.8	14.2	14.8	100.0
Oil	9.6	10.4	11.1	11.6	12.1	10.7	11.2	12.5	12.1	12.9	87.6
Gas	0.2	1.2	1.0	1.2	2.1	1.7	2.8	2.3	2.1	1.8	12.4
Gasoline	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Diesel	1.2	1.2	1.4	1.5	1.2	1.3	1.9	2.1	2.9	2.5	17.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.5
LPG	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	1.7
Exports	4.9	5.3	5.2	5.5	5.6	4.6	4.6	5.7	6.1	6.4	100.0
Oil	4.9	5.3	5.2	5.5	5.6	4.5	4.1	4.9	4.3	4.5	70.6
Gas	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.8	1.8	1.9	29.4
Gasoline	1.9	2.2	2.0	2.3	2.3	2.0	1.7	2.1	1.7	1.9	29.9
Diesel	1.6	1.7	1.6	1.6	1.6	1.2	0.9	1.1	1.0	1.0	15.7
Heating Oil	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.7
Aviation Jet	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.4	0.4	0.5	8.2
LPG	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	5.1
CO₂ Emissions (Million tons CO₂)	70.7	69.1	72.0	72.6	71.1	65.7	70.9	67.5	63.1	61.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	164.9	156.8	151.0	143.4	135.2	129.7	132.6	121.4	110.9	106.5	-
Final energy intensity (toe/million \$15ppp)	50.4	49.7	47.9	46.2	44.9	46.2	47.1	42.9	40.6	41.1	-
Total energy intensity (toe/million \$15ppp)	74.1	72.0	69.7	66.2	63.0	63.7	64.0	56.8	53.7	53.0	-

*Heat is included

Primary energy demand mix



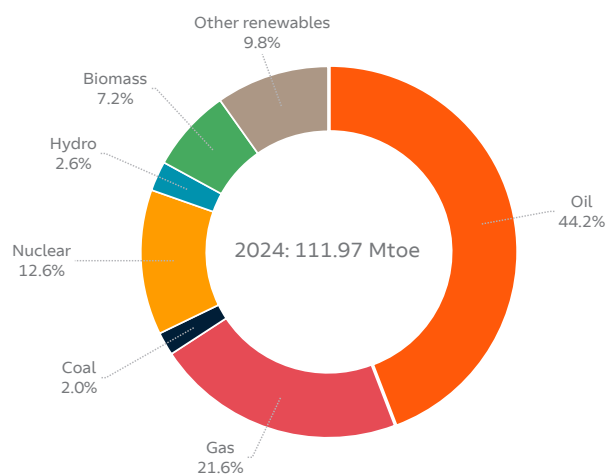
Electricity generation by source

Primary energy demand and CO₂ emissions growth

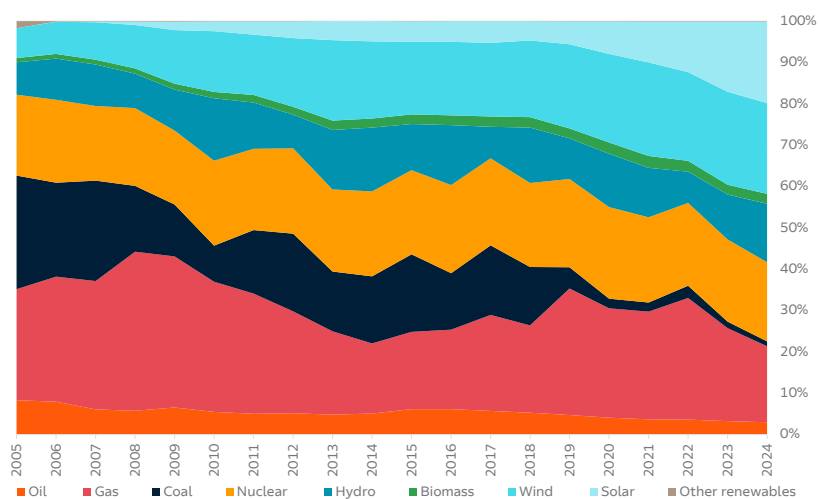
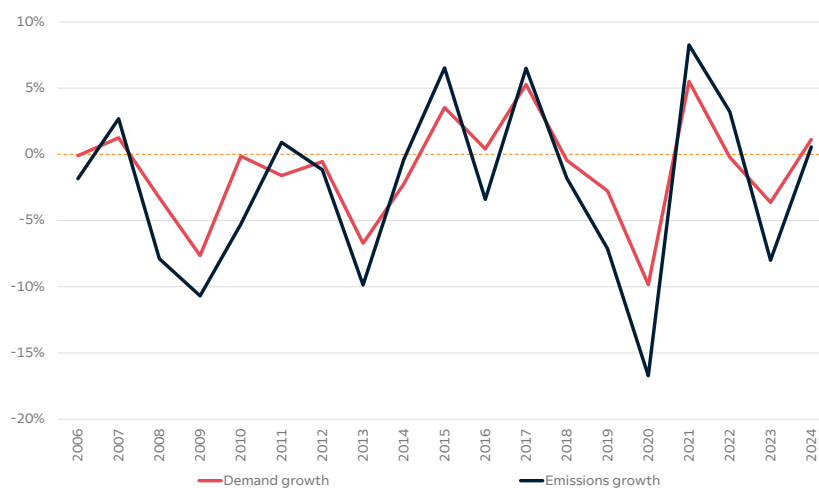
Spain (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	118.4	118.8	125.1	124.5	121.1	109.2	115.2	114.9	110.7	112.0	100.0
Oil	48.6	49.9	52.6	52.7	51.3	44.1	48.4	50.3	47.6	49.7	44.4
Gas	24.5	25.0	27.3	27.1	30.9	27.9	29.4	28.3	25.2	24.2	21.7
Coal	13.3	10.5	12.8	11.3	5.0	2.9	3.2	3.8	2.7	2.3	2.0
Nuclear	14.9	15.3	15.1	14.5	15.2	15.2	14.7	15.3	14.8	14.2	12.7
Hydro	2.4	3.1	1.6	3.0	2.1	2.6	2.5	1.5	2.1	2.9	2.6
Biomass	7.2	6.9	7.3	7.8	7.8	7.6	7.8	7.8	8.5	8.1	7.2
Other renewables	7.1	7.1	7.3	7.0	7.8	8.2	8.6	9.3	10.6	11.0	9.8
Electricity balance of trade*	0.3	0.9	1.1	1.3	0.9	0.6	0.4	-1.3	-0.8	-0.5	-0.4
Total final consumption, by source	80.5	82.7	84.6	86.7	86.6	77.9	83.7	82.2	81.2	83.5	100.0
Oil	40.6	42.4	43.3	44.3	44.3	37.9	41.8	42.9	41.6	42.9	51.4
Gas	14.0	14.5	14.7	15.3	15.6	15.0	16.1	13.5	13.2	14.4	17.3
Coal	0.5	0.6	0.6	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.6
Electricity	19.9	20.0	20.5	20.5	20.1	18.9	19.6	19.3	19.1	19.3	23.1
Heat	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Biomass	5.2	5.0	5.3	5.7	5.8	5.4	5.4	5.5	6.4	6.0	7.1
Electricity generation, by source	24.2	23.6	23.7	23.6	23.5	22.7	23.6	25.2	24.6	24.5	100.0
Oil	1.5	1.5	1.4	1.2	1.1	0.9	0.9	0.9	0.8	0.7	3.0
Gas	4.5	4.5	5.5	5.0	7.2	6.0	6.1	7.4	5.5	4.5	18.4
Coal	4.5	3.2	4.0	3.3	1.2	0.5	0.5	0.7	0.4	0.3	1.2
Nuclear	4.9	5.0	5.0	4.8	5.0	5.0	4.9	5.0	4.9	4.7	19.2
Hydro	2.7	3.4	1.8	3.2	2.3	2.9	2.8	1.9	2.7	3.5	14.1
Biomass	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.6	2.4
Wind	4.2	4.2	4.2	4.4	4.8	4.9	5.3	5.4	5.5	5.4	21.9
Solar	1.2	1.2	1.2	1.1	1.3	1.8	2.3	3.1	4.2	4.8	19.7
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	80.5	82.7	84.6	86.7	86.6	77.9	83.7	82.2	81.2	83.5	100.0
Industry	19.3	20.5	21.0	21.1	21.1	19.4	20.6	18.5	18.2	19.3	23.2
Transport	29.4	30.6	31.7	32.5	32.9	26.1	30.3	32.4	32.2	32.5	38.9
Residential/Commercial	24.5	23.8	24.1	24.9	24.1	23.4	23.9	23.3	23.0	23.4	28.0
Oil final consumption, by sector	40.6	42.4	43.3	44.3	44.3	37.9	41.8	42.9	41.6	42.9	100.0
Industry	2.7	2.9	2.9	3.0	2.9	2.5	2.3	2.1	2.0	2.0	4.6
Transport	28.0	29.1	30.0	30.4	30.8	24.2	28.4	30.5	29.7	30.5	71.0
Residential/Commercial	4.1	4.0	3.9	4.1	3.6	3.5	3.6	3.6	3.4	3.5	8.1
Natural gas final consumption, by sector	14.0	14.5	14.7	15.3	15.6	15.0	16.1	13.5	13.2	14.4	100.0
Industry	8.1	8.6	8.8	9.0	9.3	8.8	9.4	7.8	7.6	8.6	59.6
Transport	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	2.2
Residential/Commercial	5.1	5.1	5.1	5.6	5.4	5.4	5.7	5.0	4.8	4.9	33.8
Refined products consumption	40.6	42.4	43.3	44.3	44.3	37.9	41.8	42.9	41.6	42.9	100.0
Gasoline	4.6	4.8	4.9	5.1	5.5	4.3	5.4	5.9	6.2	6.6	15.4
Diesel	27.1	27.6	28.1	28.4	28.1	24.4	26.9	27.1	25.4	25.8	60.0
Heating Oil	0.5	0.6	0.9	0.9	0.9	0.6	0.6	0.7	0.6	0.6	1.3
Aviation Jet	1.9	2.0	2.2	2.3	2.4	1.0	1.7	2.5	2.7	3.0	7.0
LPG	2.1	2.8	2.6	3.0	2.7	2.4	2.0	2.2	2.4	2.4	5.6
Imports	112.8	114.7	120.6	119.8	121.1	103.4	110.0	118.5	112.7	112.1	100.0
Oil	84.7	86.5	90.5	89.5	88.8	75.1	77.9	84.0	82.1	85.8	76.6
Gas	28.2	28.2	30.1	30.3	32.4	28.3	32.2	34.5	30.7	26.2	23.4
Gasoline	0.1	0.2	0.4	0.5	1.5	1.1	0.5	0.8	0.6	0.8	0.7
Diesel	4.8	4.9	5.2	4.9	5.1	6.0	6.8	5.1	5.1	5.9	5.3
Heating Oil	4.3	5.9	6.8	7.1	6.6	3.8	4.0	6.0	6.1	6.0	5.3
Aviation Jet	2.3	2.3	2.4	1.9	1.8	1.3	0.7	1.6	1.6	1.6	1.5
LPG	0.9	1.6	1.5	1.5	1.4	1.1	0.8	1.2	1.2	1.2	1.1
Exports	27.8	28.8	30.5	28.6	25.3	24.5	25.5	26.1	28.3	24.9	100.0
Oil	23.4	25.3	28.0	25.7	24.3	23.4	22.9	20.8	22.5	22.4	89.8
Gas	4.4	3.5	2.5	2.8	1.0	1.0	2.6	5.3	5.7	2.5	10.2
Gasoline	5.0	4.7	4.8	4.6	5.0	4.6	4.8	4.3	4.0	3.6	14.3
Diesel	5.5	5.5	6.7	6.3	6.1	7.3	6.5	5.1	6.3	7.6	30.5
Heating Oil	2.2	2.9	3.5	3.6	2.6	2.4	2.1	2.0	2.3	2.4	9.6
Aviation Jet	0.5	0.7	0.6	0.6	0.4	0.5	0.8	0.4	0.6	0.5	1.8
LPG	0.4	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.6	2.5
CO₂ Emissions (Million tons CO₂)	249.7	241.2	256.9	252.2	234.2	195.1	211.2	218.0	200.5	201.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	152.6	143.3	148.3	142.2	129.5	121.1	122.9	119.5	107.1	104.4	-
Final energy intensity (toe/million \$15ppp)	46.6	46.2	46.0	45.9	44.9	44.8	45.4	42.4	40.7	40.4	-
Total energy intensity (toe/million \$15ppp)	72.4	70.6	72.2	70.2	66.9	67.8	67.0	63.0	59.1	57.9	-

*Heat is included

Primary energy demand mix



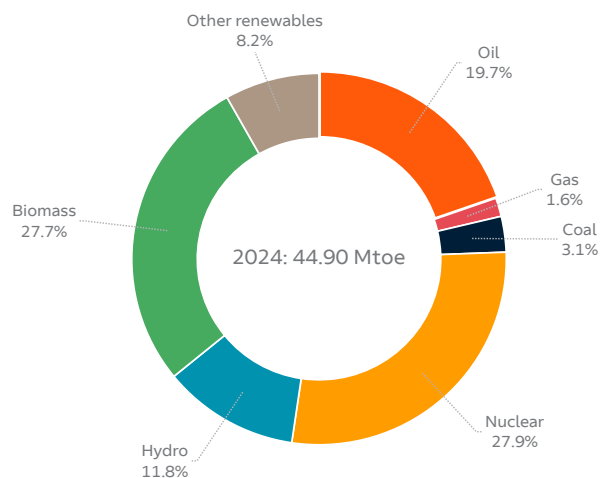
Electricity generation by source

Primary energy demand and CO₂ emissions growth

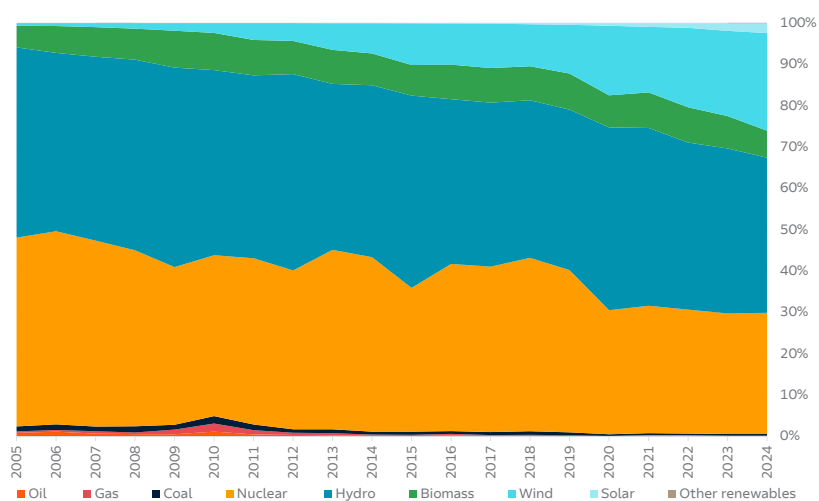
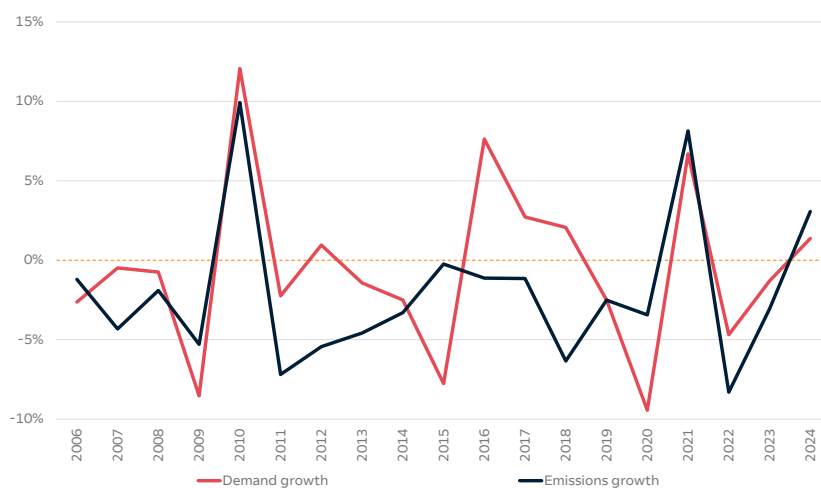
Sweden (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	44.3	47.7	49.0	50.0	48.7	44.1	47.1	44.9	44.3	44.9	100.0
Oil	8.6	10.0	9.8	10.7	9.9	8.4	9.2	8.7	8.8	9.3	20.7
Gas	0.7	0.8	0.9	1.0	0.9	1.3	1.0	0.7	0.7	0.8	1.7
Coal	2.1	2.1	2.0	2.2	2.0	1.6	1.7	1.5	1.5	1.5	3.3
Nuclear	14.7	16.4	17.1	17.9	17.2	12.8	13.8	13.5	12.6	13.2	29.4
Hydro	6.5	5.3	5.6	5.4	5.6	6.2	6.4	6.0	5.7	5.6	12.4
Biomass	11.8	12.3	13.2	12.5	13.2	13.1	14.3	13.9	13.7	13.1	29.2
Other renewables	1.4	1.3	1.5	1.5	1.8	2.5	2.5	3.0	3.2	3.9	8.6
Electricity balance of trade*	-1.5	-0.6	-1.2	-1.1	-1.9	-1.7	-1.8	-2.5	-2.0	-2.4	-5.3
Total final consumption, by source	32.1	32.8	33.2	32.5	32.3	31.3	32.8	31.1	31.5	32.0	100.0
Oil	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.3	7.6	8.2	25.8
Gas	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.6	0.5	0.5	1.4
Coal	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
Electricity	10.7	11.0	10.9	11.0	10.7	10.6	11.0	10.5	10.3	10.5	32.9
Heat	4.2	4.4	4.4	4.4	4.3	4.1	4.7	4.4	4.6	4.5	13.9
Biomass	6.4	6.7	6.9	6.9	6.8	7.4	7.4	7.7	7.9	7.9	24.6
Electricity generation, by source	13.9	13.4	14.1	14.1	14.5	14.1	14.8	14.9	14.3	14.9	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Gas	0.0	0.1	0.0	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	4.8	5.4	5.6	5.9	5.7	4.2	4.6	4.5	4.2	4.4	29.3
Hydro	6.5	5.3	5.6	5.4	5.6	6.2	6.4	6.0	5.7	5.6	37.5
Biomass	1.0	1.1	1.2	1.2	1.3	1.1	1.3	1.3	1.1	1.0	6.5
Wind	1.4	1.3	1.5	1.4	1.7	2.4	2.3	2.9	2.9	3.5	23.6
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	2.4
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	32.1	32.8	33.2	32.5	32.3	31.3	32.8	31.1	31.5	32.0	100.0
Industry	11.0	11.0	11.0	11.0	10.9	11.1	11.1	11.0	11.3	11.8	36.8
Transport	7.4	7.4	7.5	7.3	7.2	6.8	6.9	6.7	6.6	6.4	19.9
Residential/Commercial	11.2	11.7	11.5	11.4	11.2	11.0	12.0	11.2	11.1	11.2	35.1
Oil final consumption, by sector	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.3	7.6	8.2	100.0
Industry	0.9	1.0	1.0	1.0	0.9	0.8	0.9	0.9	0.9	1.0	11.8
Transport	6.3	6.0	5.9	5.6	5.6	5.1	5.2	4.7	4.6	5.0	61.1
Residential/Commercial	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	2.3
Natural gas final consumption, by sector	0.7	0.6	0.8	0.8	0.8	0.8	0.8	0.6	0.5	0.5	100.0
Industry	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	40.7
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Residential/Commercial	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	20.3
Refined products consumption	9.5	9.6	9.5	8.9	9.0	7.8	8.3	7.3	7.6	8.2	100.0
Gasoline	2.6	2.5	2.4	2.2	2.2	2.0	2.0	1.9	1.8	1.8	21.7
Diesel	4.4	4.2	4.2	4.0	4.0	3.9	3.9	3.4	3.4	4.0	48.4
Heating Oil	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	3.3
Aviation Jet	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	1.1
LPG	1.0	1.2	1.1	0.9	1.0	0.9	1.0	0.8	1.0	1.1	12.9
Imports	29.1	31.8	30.5	30.6	26.2	27.8	26.7	27.8	27.0	27.8	100.0
Oil	28.4	31.0	29.6	29.6	25.3	26.5	25.7	27.2	26.2	27.0	97.1
Gas	0.7	0.8	0.9	1.0	1.0	1.3	1.1	0.7	0.8	0.8	2.9
Gasoline	1.8	2.0	1.6	0.8	0.6	0.9	0.9	0.9	0.9	0.8	2.8
Diesel	2.6	3.1	2.9	2.3	2.6	3.4	2.7	3.0	2.9	3.0	10.8
Heating Oil	0.7	2.0	1.6	1.8	0.8	0.8	0.6	0.5	0.6	0.4	1.4
Aviation Jet	0.8	1.0	1.0	1.1	1.0	0.7	0.2	0.7	0.7	0.8	2.8
LPG	1.1	1.5	1.3	1.2	1.4	1.2	1.2	1.6	2.0	1.8	6.4
Exports	15.5	17.2	18.3	17.4	11.8	13.5	17.1	15.3	15.1	15.1	100.0
Oil	15.5	17.2	18.3	17.4	11.8	13.5	17.0	15.3	15.1	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	4.1	3.8	4.0	3.8	2.0	2.7	3.9	3.8	4.0	4.1	27.4
Diesel	5.6	5.4	7.0	6.4	3.9	4.5	6.7	5.6	5.7	5.1	33.9
Heating Oil	2.8	4.5	4.1	4.3	3.2	3.0	2.7	3.0	2.6	2.9	19.5
Aviation Jet	0.0	0.1	0.0	0.1	0.2	0.0	0.2	0.1	0.0	0.1	0.7
LPG	0.6	0.8	0.7	0.6	0.8	0.7	0.9	1.2	1.3	1.2	7.9
CO₂ Emissions (Million tons CO₂)	36.5	36.1	35.7	33.4	32.6	31.4	34.0	31.2	30.2	31.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	76.3	73.7	71.6	65.8	62.5	61.6	62.9	56.8	55.3	56.4	-
Final energy intensity (toe/million \$15ppp)	63.4	62.7	61.6	59.8	57.5	57.9	56.8	53.9	54.3	54.5	-
Total energy intensity (toe/million \$15ppp)	92.6	97.4	98.3	98.4	93.6	86.5	87.1	81.8	81.0	81.3	-

*Heat is included

Primary energy demand mix



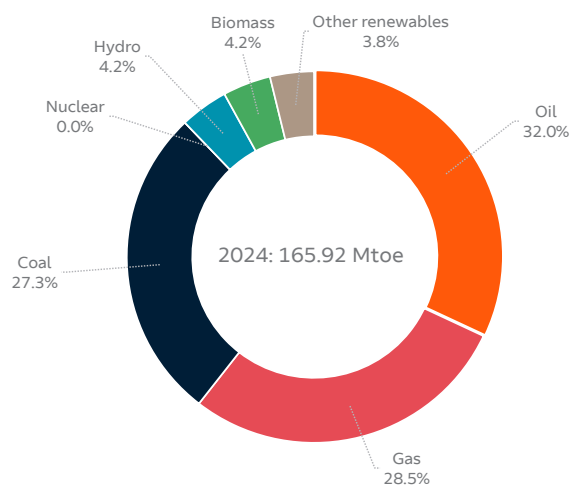
Electricity generation by source

Primary energy demand and CO₂ emissions growth

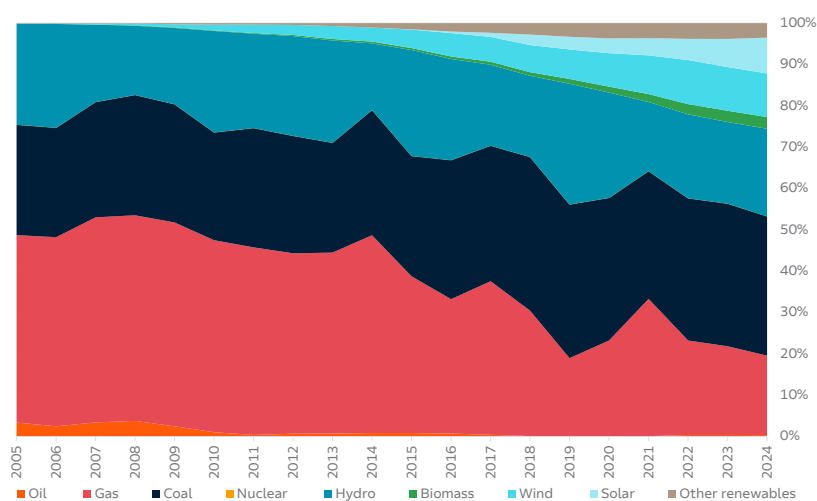
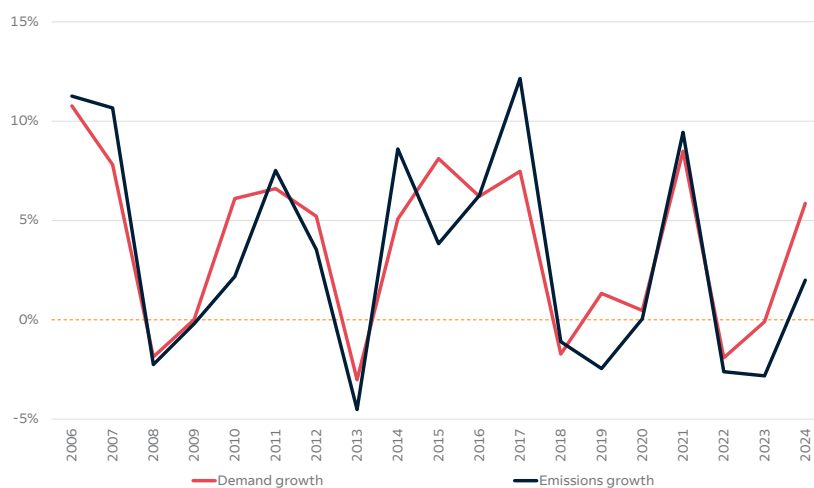
Turkey (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	129.1	137.1	147.4	144.8	146.7	147.4	159.9	156.9	156.7	165.9	100.0
Oil	39.1	42.8	45.2	42.9	43.5	42.7	44.5	45.2	47.0	48.8	29.4
Gas	39.4	38.3	44.2	41.0	37.0	39.7	49.1	42.0	41.4	43.6	26.3
Coal	34.5	38.3	40.1	40.8	41.9	40.0	41.1	41.8	38.6	41.8	25.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.8	5.8	5.0	5.2	7.6	6.7	4.8	5.7	5.5	6.4	3.8
Biomass	3.2	3.1	3.0	3.2	3.4	3.8	4.4	5.1	5.7	6.3	3.8
Other renewables	1.0	1.4	1.8	2.4	2.7	3.1	3.9	4.5	4.8	5.8	3.5
Electricity balance of trade*	6.1	7.3	8.0	9.2	10.5	11.5	12.0	12.6	13.7	13.2	8.0
Total final consumption, by source	93.5	98.0	105.0	102.9	104.1	107.5	115.3	113.0	114.9	119.3	100.0
Oil	35.4	38.2	40.7	40.1	40.1	40.4	41.9	41.9	44.6	45.5	38.1
Gas	21.2	21.5	24.8	24.6	25.6	26.5	29.7	29.5	28.2	30.1	25.3
Coal	11.9	12.4	12.1	10.0	10.3	11.9	12.8	10.8	9.9	9.8	8.3
Electricity	18.4	19.6	21.1	21.9	21.8	22.2	24.3	24.3	24.5	25.8	21.6
Heat	3.7	3.6	3.7	3.8	3.8	3.9	3.9	3.7	4.5	4.5	3.8
Biomass	2.9	2.7	2.5	2.5	2.5	2.6	2.7	2.9	3.1	3.5	2.9
Electricity generation, by source	22.5	23.6	25.6	26.2	26.1	26.4	28.8	28.2	27.8	30.1	100.0
Oil	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4
Gas	8.5	7.7	9.5	8.0	4.9	6.1	9.6	6.5	6.0	5.8	19.2
Coal	6.6	7.9	8.4	9.7	9.7	9.1	8.9	9.7	9.6	10.1	33.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	5.8	5.8	5.0	5.2	7.6	6.7	4.8	5.7	5.5	6.4	21.2
Biomass	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.8	2.8
Wind	1.0	1.3	1.5	1.7	1.9	2.1	2.7	3.0	2.9	3.2	10.6
Solar	0.0	0.1	0.2	0.7	0.8	0.9	1.2	1.5	1.9	2.6	8.7
Other renewables	0.3	0.5	0.6	0.7	0.9	1.0	1.0	1.1	1.1	1.1	3.5
Total final consumption, by sector	93.5	98.0	105.0	102.9	104.1	107.5	115.3	113.0	114.9	119.3	100.0
Industry	26.1	26.3	32.1	32.3	30.5	32.6	36.7	33.3	31.8	33.0	27.7
Transport	24.2	26.7	27.9	28.2	28.1	26.5	29.9	30.3	32.8	33.2	27.9
Residential/Commercial	32.4	33.1	35.7	33.1	35.5	36.9	37.8	39.3	39.3	41.5	34.8
Oil final consumption, by sector	35.4	38.2	40.7	40.1	40.1	40.4	41.9	41.9	44.6	45.5	100.0
Industry	1.0	0.8	4.4	4.4	3.4	4.1	3.4	3.6	3.5	3.7	8.2
Transport	23.9	26.4	27.6	27.8	27.7	26.3	29.6	29.9	32.4	32.9	72.3
Residential/Commercial	1.0	0.9	1.2	1.0	1.0	0.9	0.9	0.8	0.8	0.7	1.6
Natural gas final consumption, by sector	21.2	21.5	24.8	24.6	25.6	26.5	29.7	29.5	28.2	30.1	100.0
Industry	9.0	8.6	10.3	9.7	9.2	9.3	11.0	9.1	8.8	9.4	31.1
Transport	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	11.7	12.1	13.9	13.7	15.6	16.4	17.7	19.7	18.4	19.6	65.1
Refined products consumption	35.4	38.2	40.7	40.1	40.1	40.4	41.9	41.9	44.6	45.5	100.0
Gasoline	2.2	2.3	2.4	2.3	2.4	2.4	3.0	3.3	4.2	5.0	10.9
Diesel	20.3	22.1	23.9	23.7	23.6	23.2	25.6	25.5	26.4	26.4	58.1
Heating Oil	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.3
Aviation Jet	1.3	1.4	1.3	1.3	1.2	0.7	0.9	1.1	1.3	1.3	2.8
LPG	4.4	4.7	4.6	4.7	4.7	4.4	4.4	4.3	5.0	4.5	10.0
Imports	89.8	89.4	99.5	91.3	90.8	88.0	99.6	100.1	99.7	101.3	100.0
Oil	49.9	51.3	54.0	49.9	53.6	48.4	51.3	55.1	58.1	58.7	57.9
Gas	39.9	38.2	45.5	41.4	37.2	39.6	48.3	45.0	41.6	42.6	42.1
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Diesel	12.8	13.3	14.9	15.3	11.5	9.1	11.2	11.0	14.2	16.0	15.8
Heating Oil	1.6	1.7	2.1	2.4	2.0	2.0	1.6	2.3	2.7	1.8	1.8
Aviation Jet	0.2	0.4	0.2	0.5	0.4	0.1	0.2	0.5	0.7	0.8	0.8
LPG	3.8	3.8	3.8	3.7	3.5	3.4	3.5	3.6	4.4	4.0	3.9
Exports	8.3	7.2	7.4	5.6	9.3	8.2	7.9	10.0	11.2	10.9	100.0
Oil	7.7	6.6	6.9	5.1	8.7	7.8	7.6	9.6	10.4	9.6	87.8
Gas	0.5	0.6	0.5	0.6	0.6	0.5	0.3	0.5	0.7	1.3	12.2
Gasoline	3.3	3.1	3.4	2.6	3.1	2.0	1.8	2.1	1.1	0.3	2.7
Diesel	0.1	0.1	0.2	0.1	1.4	2.7	2.5	2.5	3.1	2.9	26.4
Heating Oil	2.5	1.6	1.5	1.1	2.1	0.2	1.2	1.5	1.2	2.6	23.5
Aviation Jet	0.3	0.2	0.3	0.1	0.7	0.6	0.0	0.3	0.9	0.4	3.6
LPG	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.5	0.5	0.5	4.3
CO₂ Emissions (Million tons CO₂)	319.6	339.6	380.9	376.7	367.4	367.6	402.3	391.8	380.8	388.3	-
CO₂ Intensity (tCO₂/million \$15ppp)	158.0	162.5	169.5	162.7	157.4	154.7	151.9	140.2	129.6	128.1	-
Final energy intensity (toe/million \$15ppp)	42.8	43.0	44.5	42.4	42.3	42.5	41.4	38.6	37.2	37.4	-
Total energy intensity (toe/million \$15ppp)	63.8	65.6	65.6	62.6	62.9	62.0	60.4	56.1	53.3	54.7	-

*Heat is included

Primary energy demand mix



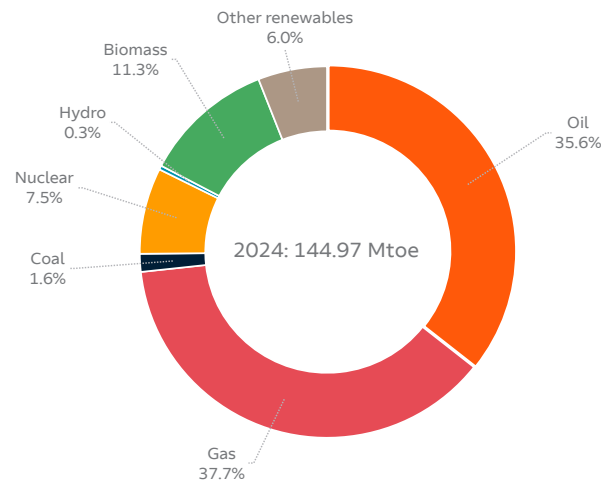
Electricity generation by source

Primary energy demand and CO₂ emissions growth

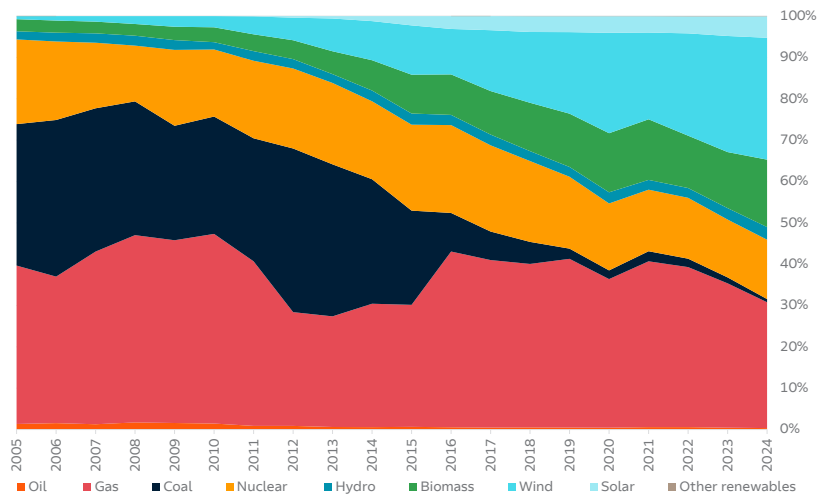
United Kingdom (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	181.5	177.0	175.3	174.5	167.6	154.7	159.0	152.9	146.3	145.0	100.0
Oil	59.2	60.3	60.7	59.8	58.1	49.0	51.2	52.1	51.7	50.6	34.9
Gas	62.0	68.3	67.5	68.0	66.1	63.3	66.3	60.7	54.3	53.5	36.9
Coal	25.6	12.6	10.2	8.6	6.0	5.4	5.5	5.0	4.2	2.2	1.5
Nuclear	18.3	18.7	18.3	17.0	14.6	13.1	12.0	12.4	10.7	10.6	7.3
Hydro	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.3
Biomass	10.0	10.9	11.5	13.0	13.8	14.3	14.8	14.5	14.6	16.1	11.1
Other renewables	4.1	4.1	5.3	6.0	6.6	7.6	6.6	8.0	8.2	8.5	5.8
Electricity balance of trade*	1.9	1.6	1.3	1.7	1.9	1.6	2.2	-0.4	2.1	2.9	2.0
Total final consumption, by source	124.9	126.6	126.4	127.6	125.5	114.8	119.3	113.8	110.9	111.1	100.0
Oil	54.0	55.5	56.2	55.1	53.9	45.2	47.1	47.6	47.0	46.4	41.8
Gas	38.1	38.5	38.1	39.5	38.4	37.7	40.0	34.6	32.5	33.4	30.1
Coal	2.9	2.5	2.3	2.2	2.0	1.9	1.8	1.8	1.5	1.0	0.9
Electricity	26.0	26.0	25.6	25.9	25.6	24.4	24.7	23.6	23.3	23.7	21.3
Heat	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1
Biomass	2.6	2.8	2.9	3.6	4.2	4.4	4.5	5.0	5.4	5.5	4.9
Electricity generation, by source	29.1	29.0	29.0	28.6	27.8	26.7	26.5	27.9	25.1	24.4	100.0
Oil	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.4
Gas	8.6	12.3	11.8	11.3	11.4	9.6	10.6	10.8	8.8	7.4	30.5
Coal	6.6	2.7	2.0	1.5	0.7	0.6	0.6	0.6	0.4	0.2	0.7
Nuclear	6.0	6.2	6.0	5.6	4.8	4.3	3.9	4.1	3.5	3.5	14.4
Hydro	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.7	3.1
Biomass	2.7	2.8	3.1	3.3	3.6	3.8	3.9	3.5	3.4	4.0	16.3
Wind	3.5	3.2	4.3	4.9	5.5	6.5	5.6	6.9	7.1	7.2	29.5
Solar	0.6	0.9	1.0	1.1	1.1	1.1	1.0	1.1	1.2	1.3	5.2
Other renewables	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	124.9	126.6	126.4	127.6	125.5	114.8	119.3	113.8	110.9	111.1	100.0
Industry	23.1	21.1	21.3	21.9	21.9	21.1	21.6	20.8	20.6	20.2	18.1
Transport	40.5	41.4	41.6	41.5	41.4	33.3	36.5	38.2	38.5	38.1	34.2
Residential/Commercial	52.6	54.3	53.4	54.6	53.3	52.1	54.1	48.1	45.9	47.1	42.4
Oil final consumption, by sector	54.0	55.5	56.2	55.1	53.9	45.2	47.1	47.6	47.0	46.4	100.0
Industry	3.8	2.1	2.4	2.4	2.5	2.6	2.6	2.4	2.4	2.4	5.2
Transport	39.2	40.1	40.2	39.7	39.0	31.0	34.2	35.3	35.0	34.5	74.3
Residential/Commercial	3.5	4.6	4.5	4.6	4.5	4.2	4.2	4.2	4.4	4.4	9.4
Natural gas final consumption, by sector	38.1	38.5	38.1	39.5	38.4	37.7	40.0	34.6	32.5	33.4	100.0
Industry	7.6	7.4	7.6	8.1	7.8	7.6	8.0	7.6	7.6	7.6	22.8
Transport	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
Residential/Commercial	30.1	30.5	30.0	30.9	30.1	29.6	31.5	26.5	24.7	25.6	76.6
Refined products consumption	54.0	55.5	56.2	55.1	53.9	45.2	47.1	47.6	47.0	46.4	100.0
Gasoline	12.7	12.6	12.4	12.2	12.4	9.6	10.7	11.5	12.0	12.4	26.7
Diesel	28.7	29.7	30.1	29.9	28.9	24.1	26.5	26.5	25.6	24.4	52.5
Heating Oil	0.3	0.3	0.5	0.3	0.3	0.1	0.1	0.2	0.1	0.1	0.3
Aviation Jet	0.8	0.8	0.9	0.9	0.9	0.4	0.4	0.7	0.8	0.9	1.9
LPG	3.1	3.2	3.2	3.2	3.2	2.8	2.7	2.8	2.4	2.6	5.6
Imports	123.3	126.1	129.8	129.9	125.2	103.0	111.9	125.2	116.9	115.3	100.0
Oil	84.9	86.1	90.0	90.1	86.3	66.0	68.5	77.3	78.6	79.8	69.2
Gas	38.3	40.0	39.8	39.8	39.0	37.0	43.4	47.8	38.3	35.4	30.8
Gasoline	4.1	4.1	3.4	3.6	3.1	2.7	2.7	2.8	3.2	4.3	3.7
Diesel	15.1	17.0	15.9	16.5	15.1	12.2	14.1	14.5	13.8	12.9	11.2
Heating Oil	1.0	1.2	0.9	0.8	0.6	0.7	0.6	0.5	0.5	0.6	0.5
Aviation Jet	8.8	9.3	9.7	10.0	10.0	5.9	4.7	8.3	10.5	11.5	10.0
LPG	0.8	1.0	1.1	1.1	1.0	0.4	0.8	0.7	0.5	0.8	0.7
Exports	69.7	69.6	72.6	74.9	74.2	67.9	59.8	73.2	61.1	55.7	100.0
Oil	57.9	60.5	62.9	68.4	67.1	59.7	53.9	53.1	47.6	46.4	83.5
Gas	11.9	9.2	9.8	6.5	7.1	8.2	5.9	20.1	13.6	9.2	16.5
Gasoline	10.9	11.7	11.5	10.8	9.9	8.2	8.3	9.5	9.2	9.0	16.2
Diesel	4.7	5.0	3.9	4.4	4.3	4.2	3.7	5.1	3.4	3.6	6.4
Heating Oil	3.2	3.3	2.9	2.4	2.1	2.7	2.5	2.6	2.5	2.7	4.8
Aviation Jet	1.3	1.3	1.3	1.7	1.5	1.3	1.2	1.2	1.5	1.6	2.8
LPG	0.9	1.1	1.2	1.0	0.9	0.5	0.6	0.6	0.5	0.5	0.8
CO₂ Emissions (Million tons CO₂)	397.8	371.7	359.8	353.5	339.6	301.0	319.3	309.4	292.3	280.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	143.7	131.7	124.2	120.4	113.8	112.4	109.8	101.5	95.6	90.6	-
Final energy intensity (toe/million \$15ppp)	42.5	42.1	40.8	40.8	39.7	40.4	39.2	35.8	34.9	34.7	-
Total energy intensity (toe/million \$15ppp)	65.6	62.7	60.5	59.4	56.1	57.8	54.7	50.2	47.8	46.9	-

*Heat is included

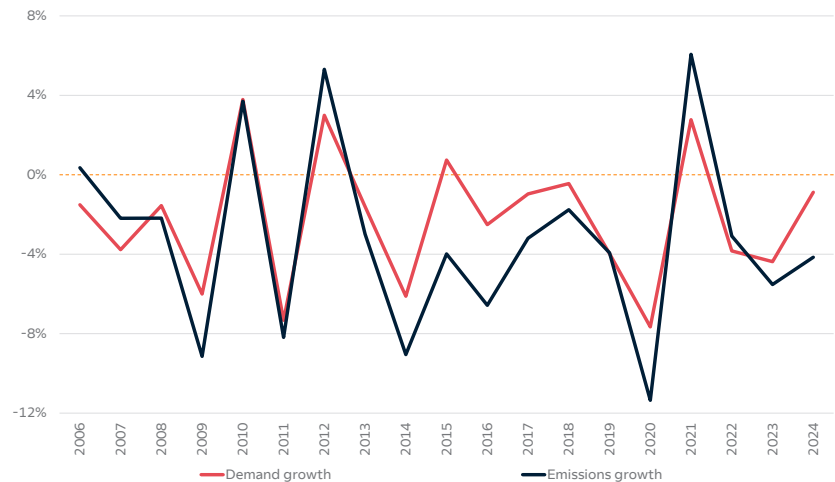
Primary energy demand mix



Electricity generation by source



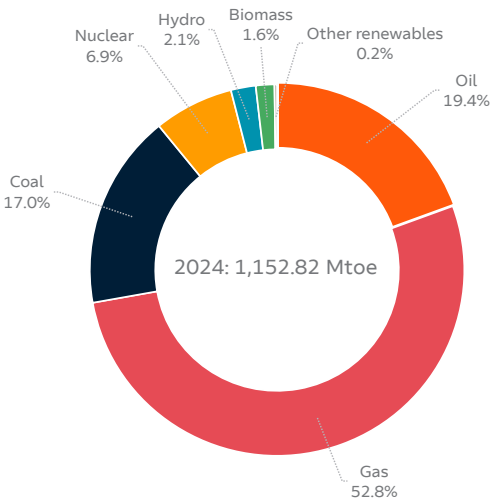
Primary energy demand and CO₂ emissions growth



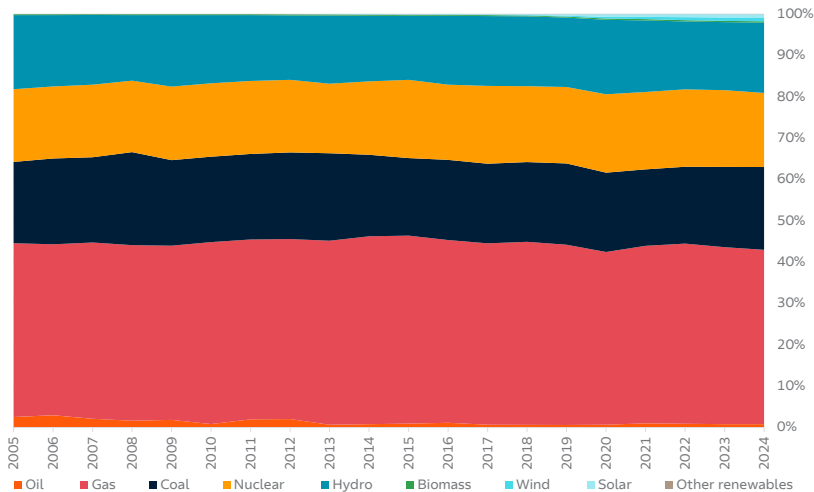
Former Soviet Union (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	975.4	995.3	1,023.1	1,082.0	1,032.0	1,016.3	1,120.0	1,104.5	1,126.0	1,152.8	100.0
Oil	195.6	207.8	216.2	212.9	210.8	207.6	225.6	229.8	235.4	223.9	19.4
Gas	485.3	494.1	510.7	563.8	511.3	509.1	577.1	557.1	567.8	609.0	52.8
Coal	186.6	184.6	184.1	192.3	193.8	179.7	193.6	195.3	199.2	195.7	17.0
Nuclear	74.5	73.0	75.9	75.8	76.7	76.9	80.1	80.0	80.3	79.6	6.9
Hydro	19.8	21.8	22.2	22.8	22.7	23.9	24.3	23.0	23.3	24.7	2.1
Biomass	13.7	14.7	14.7	15.6	17.5	18.6	19.2	18.5	18.5	18.5	1.6
Other renewables	0.2	0.2	0.3	0.4	0.8	1.4	1.6	2.0	2.3	2.5	0.2
Electricity balance of trade*	-0.3	-0.9	-1.0	-1.6	-1.4	-0.8	-1.6	-1.2	-0.7	-1.0	-0.1
Total final consumption, by source	582.6	594.4	620.3	659.2	641.4	634.0	675.5	670.1	678.2	686.6	100.0
Oil	158.6	158.6	167.9	172.3	176.9	177.0	186.5	191.2	195.6	185.4	27.0
Gas	166.7	174.7	188.5	206.5	202.0	199.2	215.7	207.9	216.0	233.4	34.0
Coal	34.4	34.1	35.0	47.8	32.5	31.6	32.1	32.0	29.5	27.1	3.9
Electricity	89.8	90.8	93.3	93.9	93.0	91.9	99.0	100.4	101.0	103.2	15.0
Heat	125.8	128.1	127.5	129.9	126.8	124.2	131.8	128.6	126.1	127.5	18.6
Biomass	7.2	8.0	8.1	8.7	10.1	10.3	10.4	10.1	10.1	10.0	1.5
Electricity generation, by source	129.9	132.4	133.1	136.5	136.7	133.9	141.2	141.1	142.8	146.6	100.0
Oil	1.2	1.5	0.9	0.9	0.8	0.9	1.4	1.3	1.2	1.2	0.8
Gas	59.1	58.5	58.4	60.4	59.6	55.9	60.6	61.5	61.1	61.8	42.2
Coal	24.4	25.7	25.7	26.4	26.9	25.7	26.1	26.2	27.7	29.4	20.0
Nuclear	24.6	24.1	25.1	25.0	25.3	25.4	26.4	26.4	26.5	26.3	17.9
Hydro	20.1	22.0	22.5	23.1	23.0	24.1	24.4	23.1	23.5	24.9	17.0
Biomass	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.3
Wind	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.4	0.9
Solar	0.1	0.1	0.1	0.2	0.5	0.8	0.9	1.0	1.1	1.1	0.8
Other renewables	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total final consumption, by sector	582.6	594.4	620.3	659.2	641.4	634.0	675.5	670.1	678.2	686.6	100.0
Industry	178.6	187.1	189.1	185.3	170.5	166.2	176.5	178.8	178.5	182.4	26.6
Transport	93.5	93.1	95.1	100.4	101.7	97.5	104.8	109.4	113.0	108.4	15.8
Residential/Commercial	219.8	221.9	235.8	260.5	257.4	248.3	270.7	262.0	264.2	272.5	39.7
Oil final consumption, by sector	158.6	158.6	167.9	172.3	176.9	177.0	186.5	191.2	195.6	185.4	100.0
Industry	19.4	21.1	20.8	11.2	12.7	12.5	13.1	14.0	14.1	13.7	7.4
Transport	84.3	83.7	85.7	89.5	91.4	87.4	94.1	98.0	101.5	96.5	52.0
Residential/Commercial	14.1	13.3	16.6	20.0	20.5	20.2	20.6	21.1	21.1	20.1	10.8
Natural gas final consumption, by sector	166.7	174.7	188.5	206.5	202.0	199.2	215.7	207.9	216.0	233.4	100.0
Industry	49.4	50.3	51.7	48.9	47.4	44.7	49.1	49.3	51.0	55.3	23.7
Transport	2.7	2.8	3.2	4.7	3.9	4.2	4.6	5.0	5.0	5.2	2.2
Residential/Commercial	75.7	81.0	87.8	103.9	101.9	97.9	106.7	101.2	105.5	113.5	48.6
Refined products consumption	158.0	158.0	167.3	172.3	176.9	176.9	186.5	191.1	195.6	185.4	100.0
Gasoline	50.8	50.6	48.7	50.2	49.4	47.8	51.6	52.2	53.5	50.9	27.5
Diesel	45.7	43.7	47.5	49.0	52.4	51.8	53.9	58.7	61.5	57.2	30.9
Heating Oil	3.5	2.9	3.4	3.4	3.1	2.8	2.7	2.5	2.6	2.0	1.1
Aviation Jet	5.7	5.6	6.2	6.7	6.6	5.3	6.3	5.8	5.6	5.3	2.9
LPG	20.6	21.3	23.5	27.3	29.2	32.9	34.8	36.6	36.8	33.4	18.0
Imports	90.6	81.9	87.3	88.9	90.0	83.2	75.3	75.3	81.2	95.4	100.0
Oil	45.3	39.9	41.3	41.4	38.1	37.5	36.9	36.7	41.8	38.4	40.2
Gas	45.4	42.0	46.0	47.5	51.9	45.7	38.5	38.6	39.3	57.0	59.8
Gasoline	5.3	4.9	4.1	3.6	2.7	3.1	3.1	3.4	3.2	1.5	1.6
Diesel	6.8	7.7	8.4	8.0	8.2	9.3	8.6	8.4	8.7	6.0	6.3
Heating Oil	0.7	0.7	0.7	0.3	0.3	0.3	0.1	0.4	0.9	0.3	0.3
Aviation Jet	0.4	0.6	0.7	0.7	0.5	0.3	0.4	0.6	0.7	0.5	0.6
LPG	1.3	1.8	2.1	2.2	2.4	2.5	2.5	2.5	2.6	3.0	3.1
Exports	767.8	772.6	787.4	805.1	848.2	768.4	765.8	717.0	692.3	707.9	100.0
Oil	521.5	515.9	512.7	530.0	540.2	491.7	487.7	496.6	491.0	483.1	68.2
Gas	246.3	256.8	274.7	275.1	308.0	276.6	278.1	220.4	201.3	224.9	31.8
Gasoline	9.2	9.4	8.4	7.9	8.8	9.8	7.9	9.6	10.0	9.1	1.3
Diesel	43.0	41.6	40.3	48.1	47.0	45.8	44.2	40.4	41.3	37.7	5.3
Heating Oil	68.3	57.3	52.5	49.0	55.3	47.7	50.0	46.3	44.6	40.4	5.7
Aviation Jet	3.1	3.1	3.0	3.5	3.1	2.4	2.7	2.7	2.8	2.6	0.4
LPG	6.8	7.9	7.8	8.2	7.4	5.9	5.3	4.6	4.2	3.7	0.5
CO₂ Emissions (Million tons CO₂)	2,160.3	2,158.5	2,187.1	2,376.1	2,243.0	2,152.7	2,342.3	2,240.8	2,278.6	2,296.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	421.8	418.6	414.4	436.2	400.4	393.9	406.4	400.3	391.1	377.8	-
Final energy intensity (toe/million \$15ppp)	100.6	102.0	103.0	104.8	98.6	98.4	99.7	102.4	99.3	96.0	-
Total energy intensity (toe/million \$15ppp)	190.5	193.0	193.9	198.6	184.2	186.0	194.3	197.3	193.2	189.6	-

*Heat is included

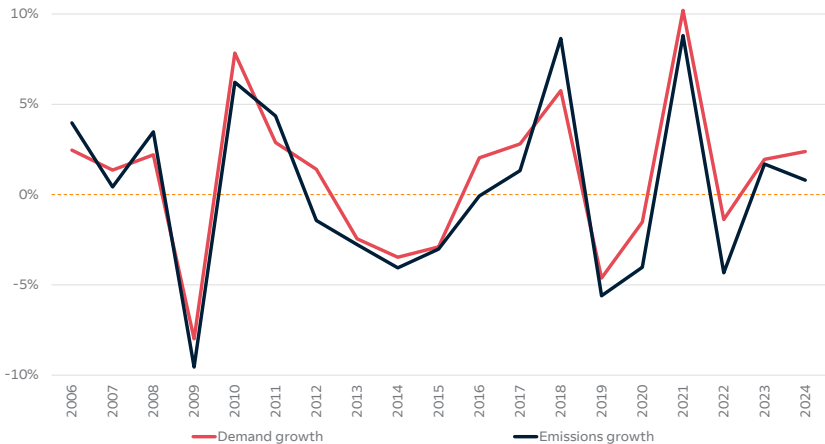
Primary energy demand mix



Electricity generation by source



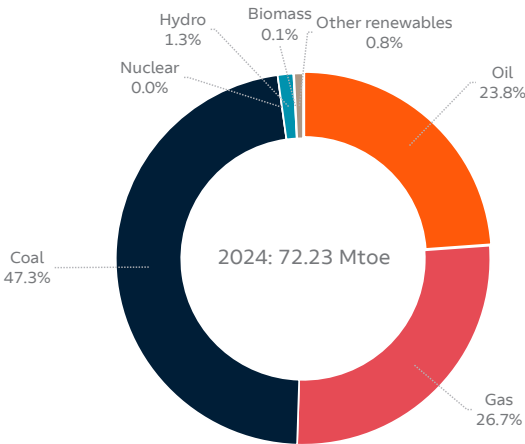
Primary energy demand and CO₂ emissions growth



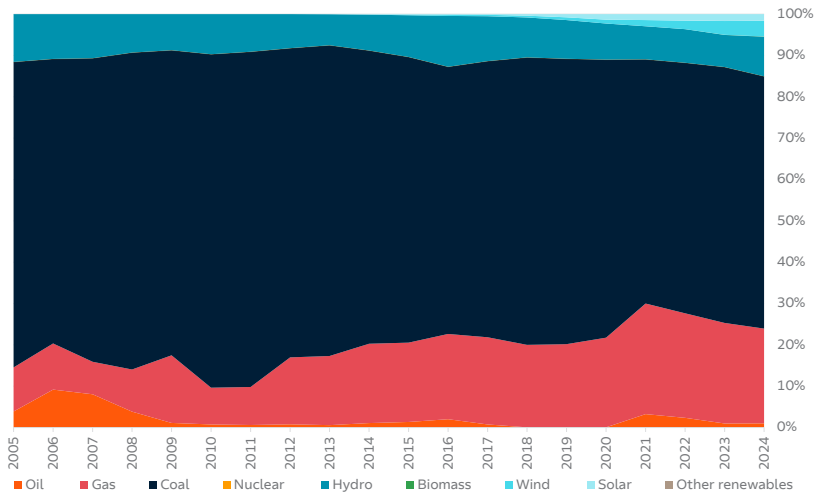
Kazakhstan (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	58.9	65.6	68.1	71.7	72.8	67.0	70.1	69.3	73.0	72.2	100.0
Oil	13.4	15.2	15.4	16.0	16.5	12.3	17.5	16.7	17.3	17.2	23.8
Gas	10.6	14.3	14.0	18.6	20.1	20.2	17.0	18.5	19.6	19.2	26.6
Coal	34.0	35.0	38.0	36.3	35.1	33.5	34.5	32.8	34.6	34.1	47.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.8	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	1.0	1.3
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.8
Electricity balance of trade*	0.0	-0.1	-0.4	-0.3	-0.0	-0.1	-0.0	0.1	0.2	0.2	0.3
Total final consumption, by source	42.3	42.8	46.7	41.4	40.9	41.4	43.4	43.1	42.5	42.3	100.0
Oil	12.0	13.0	13.9	12.4	11.4	13.2	13.4	13.7	14.4	14.7	34.8
Gas	4.7	5.2	5.6	5.6	8.4	6.5	6.7	6.8	7.2	7.0	16.7
Coal	13.1	12.6	15.4	10.1	9.4	9.1	9.5	9.4	7.9	7.0	16.6
Electricity	6.0	6.0	6.7	6.9	6.2	6.0	7.4	7.1	6.5	6.7	15.9
Heat	6.4	5.9	5.0	6.2	5.5	6.6	6.3	6.1	6.6	6.8	16.0
Biomass	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	7.9	8.1	8.9	9.3	9.2	9.5	9.9	9.8	9.8	10.1	100.0
Oil	0.1	0.2	0.1	0.0	0.0	0.0	0.3	0.2	0.1	0.1	1.0
Gas	1.5	1.7	1.9	1.8	1.8	2.1	2.6	2.5	2.4	2.3	22.9
Coal	5.5	5.3	5.9	6.4	6.3	6.4	5.8	5.9	6.0	6.2	61.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.8	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	1.0	9.6
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	3.8
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	1.6
Other renewables	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0
Total final consumption, by sector	42.3	42.8	46.7	41.4	40.9	41.4	43.4	43.1	42.5	42.3	100.0
Industry	20.1	20.4	22.6	15.2	13.0	12.4	13.0	12.3	11.4	11.1	26.3
Transport	5.4	5.8	6.1	6.3	5.9	7.5	7.9	8.6	9.9	10.1	23.8
Residential/Commercial	14.4	13.8	15.8	16.4	20.0	17.5	20.3	19.9	19.3	19.1	45.2
Oil final consumption, by sector	12.0	13.0	13.9	12.4	11.4	13.2	13.4	13.7	14.4	14.7	100.0
Industry	3.5	4.4	4.1	2.3	1.5	1.6	1.7	1.4	1.3	1.3	8.8
Transport	4.7	5.1	5.4	5.7	5.5	6.4	7.4	8.3	9.7	9.8	66.7
Residential/Commercial	2.7	2.2	2.7	2.9	3.1	3.5	2.9	2.2	2.0	2.1	14.6
Natural gas final consumption, by sector	4.7	5.2	5.6	5.6	8.4	6.5	6.7	6.8	7.2	7.0	100.0
Industry	1.3	1.4	1.9	1.4	1.1	1.4	1.4	1.5	1.3	1.3	18.4
Transport	0.3	0.3	0.3	0.3	0.1	0.8	0.3	0.0	0.0	0.0	0.1
Residential/Commercial	3.1	3.4	3.3	3.5	6.8	3.8	4.8	5.0	5.6	5.5	78.3
Refined products consumption	11.5	12.5	13.4	12.4	11.4	13.2	13.4	13.7	14.4	14.7	100.0
Gasoline	4.4	4.7	4.6	4.8	4.8	4.9	5.3	5.0	5.4	5.6	37.8
Diesel	4.6	5.5	5.6	4.8	3.8	5.5	5.3	5.4	5.9	5.7	38.9
Heating Oil	1.2	0.8	1.0	0.7	0.4	0.5	0.4	0.3	0.3	0.3	1.9
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	2.8
LPG	0.4	0.6	0.9	1.1	1.2	1.0	1.2	1.3	1.3	1.6	10.7
Imports	6.5	7.7	7.5	9.9	14.5	12.0	2.7	2.0	2.4	2.0	100.0
Oil	1.8	1.9	2.0	1.6	0.6	1.0	0.7	0.9	1.3	1.1	54.3
Gas	4.7	5.9	5.5	8.3	13.9	11.0	2.0	1.0	1.1	0.9	45.7
Gasoline	1.4	1.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Diesel	0.2	0.4	0.5	0.5	0.3	0.7	0.3	0.2	0.4	0.1	3.2
Heating Oil	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.1	0.2	0.3	0.2	0.0	0.0	0.1	0.1	0.2	0.2	9.6
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Exports	87.3	85.4	97.7	100.4	99.7	93.2	83.0	78.1	83.4	81.0	100.0
Oil	70.0	66.9	75.2	77.4	77.1	75.7	74.5	72.2	77.2	74.6	92.1
Gas	17.3	18.5	22.5	23.0	22.6	17.5	8.5	5.9	6.2	6.4	7.9
Gasoline	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.1	0.0	0.0	0.0
Diesel	0.2	0.1	0.1	0.2	0.0	0.1	0.2	0.1	0.1	0.1	0.1
Heating Oil	1.9	1.8	1.7	2.9	2.5	1.5	2.0	2.3	2.1	1.8	2.2
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.2	2.1	2.2	2.0	2.1	2.1	1.9	1.5	1.1	0.9	1.1
CO₂ Emissions (Million tons CO₂)	195.7	205.7	228.2	212.3	210.3	209.2	228.9	218.0	229.3	228.4	-
CO₂ Intensity (tCO₂/million \$15ppp)	481.2	500.3	533.1	476.5	451.8	461.0	483.6	446.2	446.6	424.6	-
Final energy intensity (toe/million \$15ppp)	102.4	102.4	107.4	90.3	85.3	87.9	89.3	85.5	80.5	76.4	-
Total energy intensity (toe/million \$15ppp)	144.9	159.5	159.1	160.9	156.3	147.7	148.0	141.7	142.2	134.3	-

*Heat is included

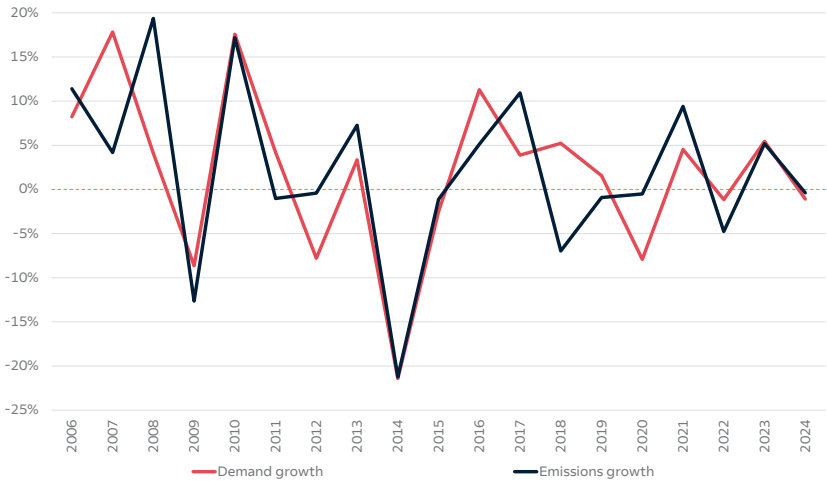
Primary energy demand mix



Electricity generation by source



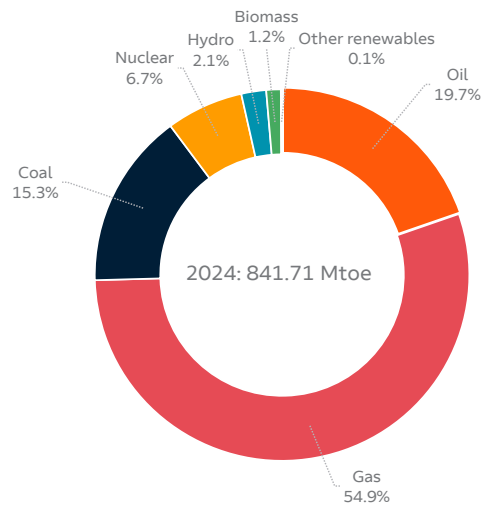
Primary energy demand and CO₂ emissions growth



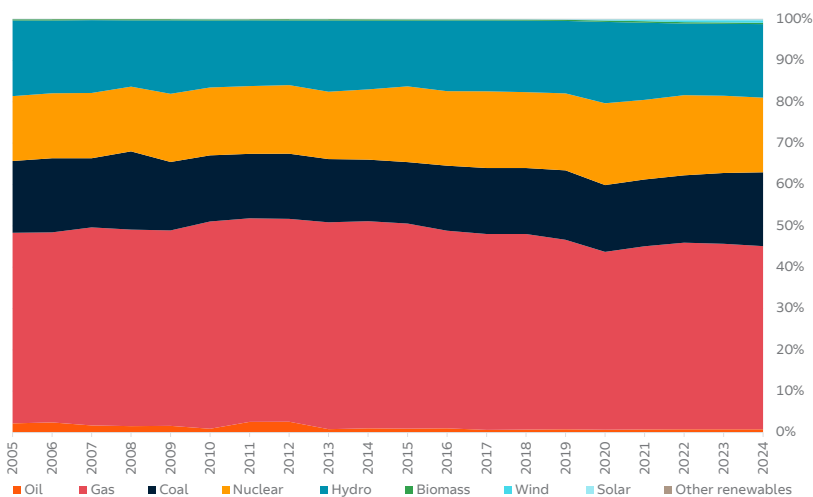
Russia (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	700.0	715.6	741.0	792.9	742.2	736.2	825.4	811.0	825.5	841.7	100.0
Oil	145.3	154.5	160.8	154.8	152.5	152.9	164.5	169.8	173.6	165.7	19.7
Gas	364.3	371.3	388.3	438.2	382.1	381.5	444.1	423.3	435.2	462.4	54.9
Coal	117.9	115.1	115.3	121.9	127.0	116.9	129.9	132.5	132.2	128.7	15.3
Nuclear	50.9	51.2	52.9	53.3	54.5	56.2	58.2	58.2	56.7	56.1	6.7
Hydro	14.4	15.9	15.9	16.4	16.7	18.3	18.4	17.0	17.2	18.1	2.1
Biomass	7.7	8.3	8.0	8.8	10.4	10.5	11.2	10.5	10.5	10.5	1.3
Other renewables	0.0	0.1	0.1	0.1	0.1	0.3	0.5	0.7	0.8	0.9	0.1
Electricity balance of trade*	-0.6	-0.8	-0.5	-0.6	-1.1	-0.5	-1.4	-1.0	-0.6	-0.6	-0.1
Total final consumption, by source	409.0	418.1	440.7	482.5	465.5	455.0	490.1	485.0	492.1	501.4	100.0
Oil	114.6	113.2	120.7	124.6	130.4	129.7	138.3	142.1	145.6	138.3	27.6
Gas	114.1	121.4	135.3	155.3	147.9	143.1	155.4	148.3	154.6	169.1	33.7
Coal	12.7	12.3	11.4	27.9	13.4	13.1	13.9	13.5	12.5	11.5	2.3
Electricity	61.2	62.2	63.6	63.4	63.1	62.5	67.6	68.9	70.0	71.7	14.3
Heat	103.3	105.3	106.1	107.2	105.2	101.1	109.3	106.8	104.1	105.4	21.0
Biomass	3.2	3.7	3.5	4.1	5.4	5.5	5.7	5.4	5.4	5.4	1.1
Electricity generation, by source	91.8	93.8	94.1	95.9	96.4	93.7	99.7	99.0	100.1	102.5	100.0
Oil	0.9	0.9	0.6	0.7	0.7	0.6	0.7	0.8	0.8	0.8	0.8
Gas	45.6	44.9	44.6	45.4	44.2	40.3	44.2	44.7	44.9	45.5	44.3
Coal	13.6	14.7	15.0	15.3	16.2	15.1	16.1	16.1	17.1	18.3	17.8
Nuclear	16.8	16.9	17.5	17.6	18.0	18.6	19.2	19.2	18.7	18.5	18.1
Hydro	14.6	16.1	16.1	16.6	16.9	18.4	18.6	17.1	17.4	18.2	17.8
Biomass	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Wind	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.6	0.6
Solar	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	409.0	418.1	440.7	482.5	465.5	455.0	490.1	485.0	492.1	501.4	100.0
Industry	124.3	133.3	133.9	139.2	125.9	123.1	131.4	133.2	134.0	137.7	27.5
Transport	64.9	63.1	63.9	68.5	69.5	65.3	71.1	74.2	76.0	71.9	14.3
Residential/Commercial	151.5	152.1	164.2	185.6	181.1	172.3	187.7	181.1	182.7	189.1	37.7
Oil final consumption, by sector	114.6	113.2	120.7	124.6	130.4	129.7	138.3	142.1	145.6	138.3	100.0
Industry	14.4	16.0	15.8	7.9	10.2	9.6	10.2	11.1	11.4	11.0	7.9
Transport	59.6	57.6	58.9	61.7	63.9	60.0	65.5	68.2	69.9	65.6	47.4
Residential/Commercial	10.5	9.8	12.9	15.6	16.0	15.6	16.5	17.6	18.1	16.9	12.2
Natural gas final consumption, by sector	114.1	121.4	135.3	155.3	147.9	143.1	155.4	148.3	154.6	169.1	100.0
Industry	35.5	36.4	38.0	38.3	36.7	34.1	37.7	37.0	38.6	42.2	25.0
Transport	0.1	0.2	0.3	1.6	0.6	0.5	0.5	0.6	0.6	0.6	0.4
Residential/Commercial	44.5	49.3	56.0	70.3	66.6	63.5	68.6	64.6	67.4	73.7	43.6
Refined products consumption	114.5	113.1	120.7	124.5	130.4	129.6	138.3	142.0	145.5	138.3	100.0
Gasoline	37.1	36.4	35.1	36.6	35.9	34.1	37.3	38.0	38.6	36.3	26.2
Diesel	27.3	24.8	28.0	29.4	33.4	31.9	34.2	38.6	40.8	38.2	27.6
Heating Oil	1.0	0.9	1.3	1.6	1.6	1.3	1.2	1.2	1.2	1.2	0.8
Aviation Jet	5.3	5.1	5.6	5.9	6.1	5.0	5.9	5.2	4.9	4.7	3.4
LPG	16.6	16.4	18.0	21.4	22.8	27.2	28.7	30.2	30.7	28.8	20.8
Imports	12.4	9.5	9.2	9.5	8.9	9.0	7.9	7.3	5.6	4.8	100.0
Oil	5.1	2.2	2.0	1.8	1.4	1.6	1.2	0.9	0.9	0.7	15.3
Gas	7.2	7.3	7.2	7.7	7.5	7.4	6.7	6.4	4.7	4.1	84.7
Gasoline	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.2	0.2	0.2	3.6
Heating Oil	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.2
Aviation Jet	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.8
Exports	552.6	565.8	570.6	581.3	626.1	566.8	566.9	518.9	484.3	493.4	100.0
Oil	387.7	390.6	383.0	400.0	412.5	370.5	367.7	380.9	371.1	366.5	74.3
Gas	165.0	175.1	187.6	181.3	213.5	196.2	199.2	138.1	113.2	126.9	25.7
Gasoline	5.0	5.5	4.6	4.4	5.4	5.5	4.1	5.6	6.1	5.6	1.1
Diesel	34.1	34.7	34.3	42.8	41.2	40.8	38.8	35.7	36.4	33.1	6.7
Heating Oil	58.7	50.0	45.6	40.4	48.1	42.8	44.5	40.4	38.8	35.3	7.2
Aviation Jet	2.5	2.6	2.4	2.8	2.6	2.1	2.5	2.5	2.5	2.3	0.5
LPG	4.1	5.4	4.9	5.4	4.9	3.4	3.1	2.7	2.7	2.5	0.5
CO₂ Emissions (Million tons CO₂)	1,501.7	1,478.9	1,508.0	1,701.1	1,576.7	1,500.7	1,644.3	1,611.0	1,636.8	1,658.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	425.9	418.6	419.2	459.9	417.1	407.9	423.1	423.3	415.2	404.2	-
Final energy intensity (toe/million \$15ppp)	99.2	101.1	103.2	108.9	102.0	100.5	103.0	104.9	102.3	99.8	-
Total energy intensity (toe/million \$15ppp)	198.5	202.5	206.0	214.4	196.4	200.1	212.4	213.1	209.4	205.1	-

*Heat is included

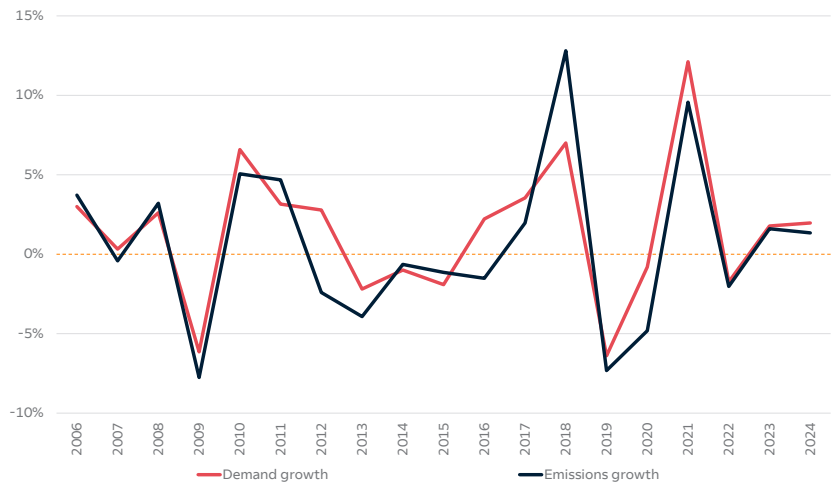
Primary energy demand mix



Electricity generation by source



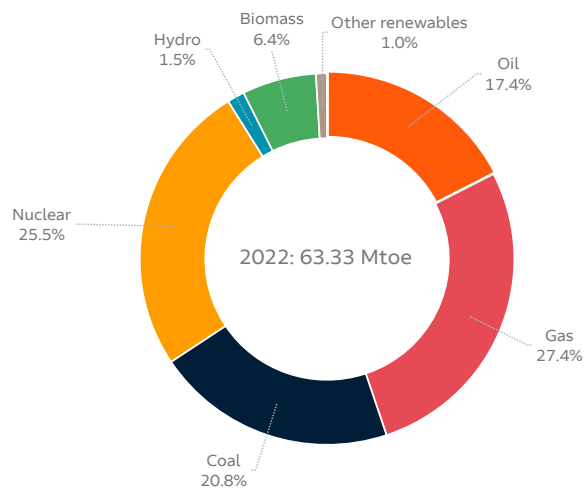
Primary energy demand and CO₂ emissions growth



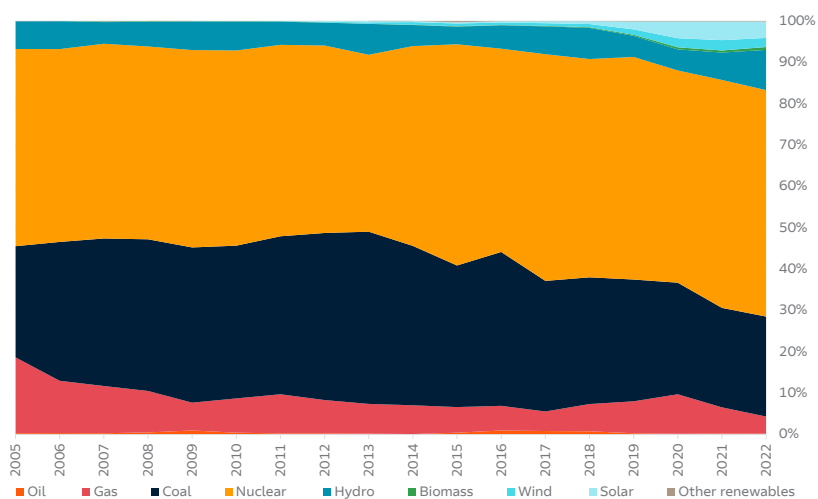
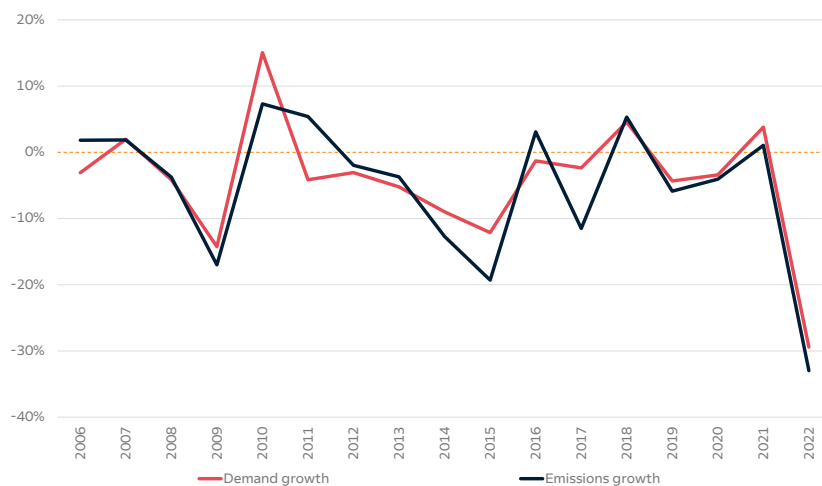
Ukraine (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2022 (%)
Total primary energy demand, by source	92.8	91.6	89.5	93.6	89.5	86.5	89.7	63.3	n.d.	n.d.	100.0
Oil	10.5	11.1	12.7	13.4	13.6	14.2	14.2	11.0	n.d.	n.d.	17.4
Gas	26.1	25.6	24.5	25.7	23.4	23.8	23.2	17.4	n.d.	n.d.	27.4
Coal	30.1	29.7	25.8	28.1	26.1	22.8	23.9	13.2	n.d.	n.d.	20.8
Nuclear	22.8	21.1	22.3	22.0	21.6	19.9	22.4	16.2	n.d.	n.d.	25.5
Hydro	0.5	0.7	0.8	0.9	0.6	0.7	0.9	0.9	n.d.	n.d.	1.5
Biomass	2.1	2.8	3.0	3.2	3.4	4.3	4.4	4.1	n.d.	n.d.	6.4
Other renewables	0.1	0.1	0.1	0.2	0.4	0.8	0.9	0.6	n.d.	n.d.	1.0
Electricity balance of trade*	0.6	0.4	0.3	0.2	0.5	-0.0	-0.2	-0.1	n.d.	n.d.	-0.1
Total final consumption, by source	49.1	50.1	48.3	49.8	47.9	47.0	48.9	35.4	n.d.	n.d.	100.0
Oil	9.4	9.6	9.8	10.4	10.4	9.6	10.2	8.5	n.d.	n.d.	23.9
Gas	14.6	14.3	13.6	13.6	12.0	12.6	13.0	10.3	n.d.	n.d.	29.1
Coal	6.1	6.2	5.2	6.3	6.2	5.7	6.0	2.6	n.d.	n.d.	7.3
Electricity	10.2	10.1	10.0	10.2	10.0	9.7	10.4	7.1	n.d.	n.d.	20.1
Heat	7.5	8.3	7.8	7.5	7.2	7.2	7.0	4.9	n.d.	n.d.	13.8
Biomass	1.3	1.7	1.8	1.9	2.1	2.2	2.2	2.1	n.d.	n.d.	5.8
Electricity generation, by source	14.1	14.2	13.4	13.7	13.3	12.8	13.4	9.7	n.d.	n.d.	100.0
Oil	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	n.d.	n.d.	0.2
Gas	0.9	0.8	0.6	0.9	1.0	1.2	0.9	0.4	n.d.	n.d.	4.1
Coal	4.8	5.3	4.2	4.2	3.9	3.4	3.2	2.4	n.d.	n.d.	24.2
Nuclear	7.5	7.0	7.4	7.3	7.1	6.6	7.4	5.3	n.d.	n.d.	54.8
Hydro	0.6	0.8	0.9	1.0	0.7	0.7	0.9	0.9	n.d.	n.d.	9.7
Biomass	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	n.d.	n.d.	0.7
Wind	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2	n.d.	n.d.	2.2
Solar	0.0	0.0	0.1	0.1	0.3	0.5	0.6	0.4	n.d.	n.d.	4.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.1
Total final consumption, by sector	49.1	50.1	48.3	49.8	47.9	47.0	48.9	35.4	n.d.	n.d.	100.0
Industry	16.2	15.4	15.0	16.4	16.0	15.9	16.3	9.7	n.d.	n.d.	27.5
Transport	7.1	7.7	7.9	8.0	8.3	7.3	7.7	6.3	n.d.	n.d.	17.7
Residential/Commercial	20.5	22.0	20.9	21.0	18.9	18.5	19.3	15.0	n.d.	n.d.	42.4
Oil final consumption, by sector	9.4	9.6	9.8	10.4	10.4	9.6	10.2	8.5	n.d.	n.d.	100.0
Industry	0.8	0.2	0.4	0.4	0.5	0.6	0.7	0.6	n.d.	n.d.	6.5
Transport	6.5	7.1	7.3	7.3	7.6	6.7	7.1	5.9	n.d.	n.d.	69.5
Residential/Commercial	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	n.d.	n.d.	1.6
Natural gas final consumption, by sector	14.6	14.3	13.6	13.6	12.0	12.6	13.0	10.3	n.d.	n.d.	100.0
Industry	2.8	2.5	2.7	2.9	2.7	2.8	2.9	2.3	n.d.	n.d.	22.4
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.2
Residential/Commercial	9.4	9.9	9.6	9.6	7.7	7.4	7.6	6.0	n.d.	n.d.	58.4
Refined products consumption	9.4	9.6	9.8	10.4	10.4	9.6	10.2	8.4	n.d.	n.d.	100.0
Gasoline	2.5	2.3	2.1	1.9	1.7	1.8	1.9	1.6	n.d.	n.d.	19.0
Diesel	5.2	5.1	5.2	5.4	5.8	5.2	5.5	4.6	n.d.	n.d.	54.1
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.0
LPG	0.9	1.5	1.7	1.9	2.1	1.5	1.6	1.2	n.d.	n.d.	14.8
Imports	21.3	18.4	22.1	19.9	21.2	19.3	18.2	12.4	n.d.	n.d.	100.0
Oil	8.0	9.6	10.8	11.5	11.7	11.9	11.9	8.8	n.d.	n.d.	70.8
Gas	13.3	8.8	11.3	8.5	9.5	7.4	6.3	3.6	n.d.	n.d.	29.2
Gasoline	1.5	1.5	1.3	1.2	1.1	1.1	1.3	1.1	n.d.	n.d.	8.9
Diesel	4.9	5.2	5.5	5.6	6.3	6.1	6.6	5.4	n.d.	n.d.	43.8
Heating Oil	0.2	0.4	0.3	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.0
LPG	0.7	1.2	1.2	1.4	1.6	1.7	1.7	1.5	n.d.	n.d.	11.7
Exports	0.1	0.0	0.4	0.3	0.8	0.3	0.3	0.0	n.d.	n.d.	100.0
Oil	0.1	0.0	0.4	0.3	0.8	0.3	0.3	0.0	n.d.	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.0
Diesel	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	n.d.	n.d.	0.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	n.d.	n.d.	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.	0.0
LPG	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	n.d.	n.d.	0.0
CO₂ Emissions (Million tons CO₂)	187.2	193.0	170.8	179.8	169.3	162.4	164.1	110.0	n.d.	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	434.1	436.9	377.7	384.3	350.5	349.4	341.3	321.1	n.d.	n.d.	-
Final energy intensity (toe/million \$15ppp)	106.2	106.9	101.2	100.9	93.3	93.1	2.8	0.0	n.d.	n.d.	-
Total energy intensity (toe/million \$15ppp)	215.3	207.4	197.9	200.0	185.4	186.0	120.7	0.0	n.d.	n.d.	-

*Heat is included

Primary energy demand mix



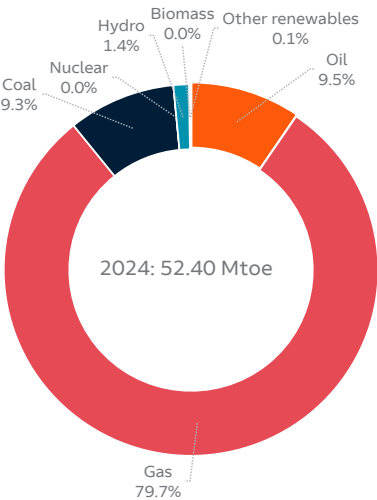
Electricity generation by source

Primary energy demand and CO₂ emissions growth

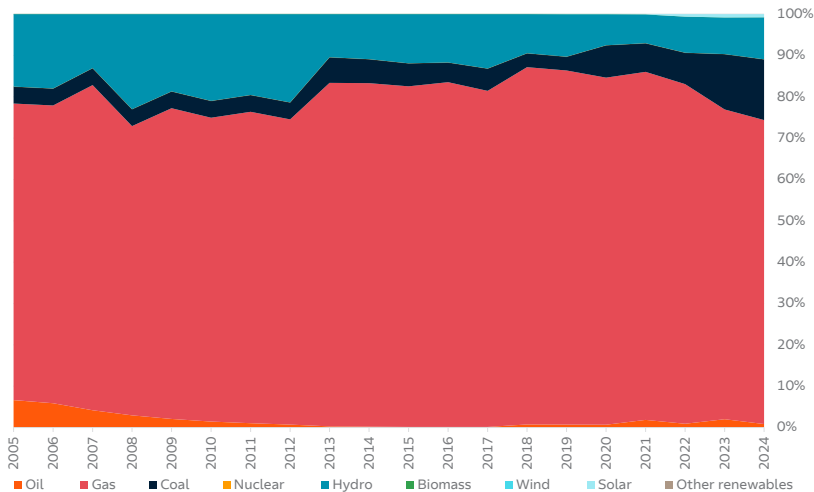
Uzbekistan (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	43.2	43.1	44.1	41.1	43.6	43.1	50.4	48.7	49.7	52.4	100.0
Oil	3.7	3.9	4.1	4.4	4.3	4.6	4.6	4.7	5.4	5.0	9.5
Gas	37.5	36.9	37.5	33.6	36.3	34.6	42.1	40.0	39.1	41.7	79.5
Coal	1.5	1.8	1.7	2.6	2.3	3.1	2.8	3.2	4.3	4.9	9.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.6	0.7	0.5	0.6	0.4	0.4	0.6	0.6	0.7	1.4
Biomass	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.2	0.2	0.1	0.2
Total final consumption, by source	27.7	28.2	28.6	27.3	28.3	32.2	34.3	33.1	32.7	33.7	100.0
Oil	3.5	3.5	3.5	3.6	3.7	4.0	4.1	4.4	4.4	4.6	13.6
Gas	16.7	16.9	17.5	15.4	15.9	18.9	22.0	20.5	21.0	21.7	64.6
Coal	0.4	0.7	0.6	0.9	1.0	1.4	0.8	0.9	0.5	0.6	1.7
Electricity	4.0	4.1	4.3	4.6	4.6	4.4	4.7	4.8	4.7	4.8	14.2
Heat	3.1	2.8	2.7	2.7	3.0	3.4	2.7	2.4	2.1	2.0	5.9
Biomass	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1
Electricity generation, by source	4.9	5.0	5.2	5.4	5.4	5.7	6.1	6.4	6.7	7.0	100.0
Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.9
Gas	4.1	4.2	4.2	4.6	4.6	4.8	5.2	5.2	5.0	5.2	73.5
Coal	0.3	0.2	0.3	0.2	0.2	0.4	0.4	0.5	0.9	1.0	14.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.6	0.6	0.7	0.5	0.6	0.4	0.4	0.6	0.6	0.7	10.1
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.8
Other renewables	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	27.7	28.2	28.6	27.3	28.3	32.2	34.3	33.1	32.7	33.7	100.0
Industry	9.7	9.9	9.4	6.1	6.7	6.4	7.2	8.3	7.8	8.0	23.9
Transport	4.5	4.5	4.7	4.9	5.2	5.5	6.1	6.5	6.5	6.8	20.2
Residential/Commercial	10.9	10.2	10.7	12.9	12.7	14.9	18.2	16.0	16.1	16.5	49.0
Oil final consumption, by sector	3.5	3.5	3.5	3.6	3.7	4.0	4.1	4.4	4.4	4.6	100.0
Industry	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.4	0.4	9.2
Transport	2.9	2.7	2.6	2.7	2.6	3.2	2.8	2.7	2.7	2.9	62.9
Residential/Commercial	0.2	0.4	0.2	0.5	0.5	0.4	0.4	0.5	0.3	0.3	6.8
Natural gas final consumption, by sector	16.7	16.9	17.5	15.4	15.9	18.9	22.0	20.5	21.0	21.7	100.0
Industry	7.3	7.5	6.9	4.1	4.4	3.9	4.6	5.3	5.4	5.6	25.6
Transport	1.6	1.7	2.0	2.1	2.5	2.3	3.2	3.7	3.7	3.9	17.8
Residential/Commercial	7.8	6.8	7.5	9.0	8.9	10.9	13.0	10.8	11.3	11.6	53.5
Refined products consumption	3.5	3.5	3.5	3.6	3.7	4.0	4.1	4.4	4.4	4.6	100.0
Gasoline	1.1	1.2	1.1	1.1	1.1	1.4	1.4	1.3	1.5	1.5	32.2
Diesel	1.3	1.1	1.1	1.1	1.1	1.4	1.1	1.2	1.2	1.5	32.0
Heating Oil	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	1.4
Aviation Jet	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6
LPG	0.8	0.9	0.9	0.9	0.9	0.8	0.9	1.2	0.9	0.9	19.8
Imports	1.1	1.3	1.4	1.6	1.1	1.7	3.5	4.1	6.9	11.6	100.0
Oil	0.8	1.1	1.2	1.4	1.1	1.7	1.7	2.4	3.3	3.0	25.7
Gas	0.2	0.2	0.2	0.2	0.0	0.0	1.8	1.8	3.6	8.7	74.3
Gasoline	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.2	0.2	0.1	0.7
Diesel	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.2	0.3	0.4	3.3
Heating Oil	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.7	0.2	1.8
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	6.2	8.3	8.5	10.5	9.0	2.4	4.5	3.9	2.3	2.9	100.0
Oil	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.4	0.2	0.3	12.2
Gas	6.2	8.3	8.4	10.5	8.9	2.2	4.4	3.4	2.1	2.5	87.8
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	8.3
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.3
CO₂ Emissions (Million tons CO₂)	97.0	102.6	100.5	96.8	101.2	98.0	116.8	111.0	113.5	119.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	464.1	463.3	434.7	396.5	388.1	370.2	408.5	366.2	352.2	346.6	-
Final energy intensity (toe/million \$15ppp)	131.8	126.1	122.3	110.3	106.9	117.8	117.0	106.7	99.2	95.8	-
Total energy intensity (toe/million \$15ppp)	206.5	194.5	190.6	168.3	167.4	162.7	176.2	160.6	154.3	152.7	-

*Heat is included

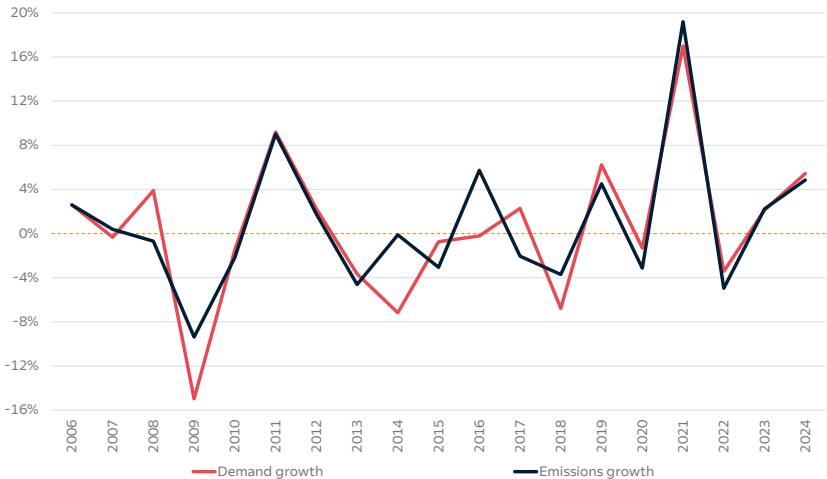
Primary energy demand mix



Electricity generation by source



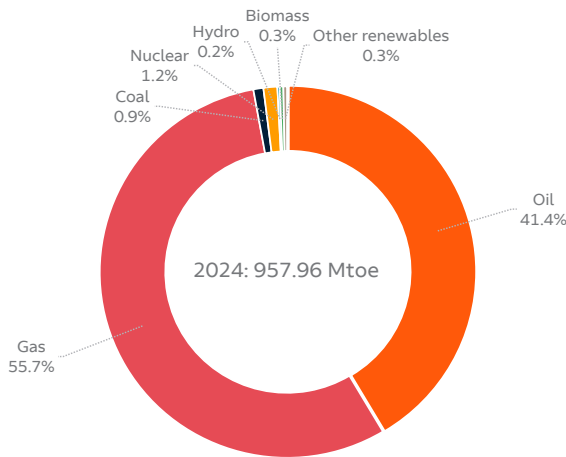
Primary energy demand and CO₂ emissions growth



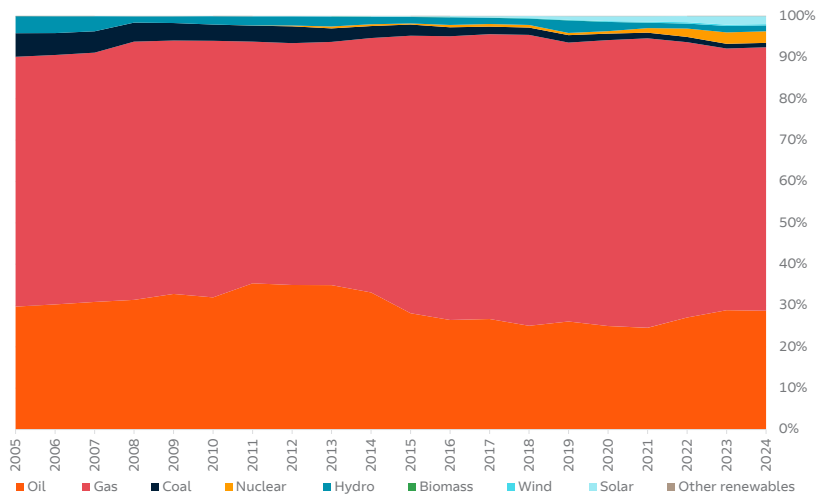
Middle East (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	789.3	813.0	824.4	825.7	867.9	857.8	891.2	913.3	941.7	958.0	100.0
Oil	365.4	370.3	369.5	366.5	376.1	344.4	367.9	380.4	388.2	396.7	41.4
Gas	407.0	425.7	437.7	441.5	471.1	492.1	500.3	510.2	526.0	533.0	55.6
Coal	10.7	9.5	9.5	9.0	9.3	9.5	9.5	8.3	8.4	8.3	0.9
Nuclear	0.8	1.7	2.0	1.9	1.8	1.9	3.8	7.5	10.7	11.5	1.2
Hydro	1.5	1.8	1.6	1.6	3.2	2.4	1.5	1.4	2.0	1.9	0.2
Biomass	2.7	2.8	2.8	2.8	2.8	2.9	2.8	2.9	2.9	2.9	0.3
Other renewables	0.2	0.3	0.4	0.7	1.3	1.7	2.0	2.4	3.0	3.0	0.3
Electricity balance of trade*	1.1	0.9	0.9	1.6	2.4	2.9	3.4	0.3	0.4	0.6	0.1
Total final consumption, by source	529.4	550.3	554.8	549.7	585.5	572.2	591.0	608.5	634.1	643.8	100.0
Oil	250.3	263.8	267.2	259.8	267.1	244.0	257.9	265.8	273.5	278.0	43.2
Gas	195.1	200.6	196.9	199.8	226.6	235.4	235.0	242.5	255.3	255.3	39.7
Coal	2.7	3.0	3.4	3.4	3.2	3.6	4.4	2.8	2.2	2.1	0.3
Electricity	78.3	79.6	84.1	83.6	85.4	86.0	90.5	94.0	99.7	105.0	16.3
Heat	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.1
Biomass	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	0.4
Electricity generation, by source	95.8	98.9	105.5	104.0	108.0	108.3	112.3	121.4	128.4	135.7	100.0
Oil	27.0	26.2	28.2	26.1	28.2	27.1	27.7	32.9	37.1	39.0	28.7
Gas	64.3	67.9	72.7	73.2	72.8	74.9	78.7	80.9	81.3	86.5	63.8
Coal	2.6	2.1	2.0	1.8	2.0	1.7	1.5	1.5	1.5	1.5	1.1
Nuclear	0.3	0.6	0.6	0.6	0.6	0.6	1.2	2.5	3.5	3.8	2.8
Hydro	1.5	1.8	1.6	1.6	3.2	2.4	1.5	1.4	2.0	1.9	1.4
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.3
Solar	0.1	0.2	0.3	0.5	0.9	1.3	1.5	1.8	2.6	2.6	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	529.4	550.3	554.8	549.7	585.5	572.2	591.0	608.5	634.1	643.8	100.0
Industry	155.0	147.5	143.6	145.0	157.0	160.1	164.2	170.0	180.1	185.1	28.7
Transport	142.3	137.7	141.6	134.6	147.4	127.5	140.8	147.0	151.5	154.6	24.0
Residential/Commercial	123.5	129.1	128.0	128.2	139.1	140.8	145.2	150.5	156.7	159.7	24.8
Oil final consumption, by sector	250.3	263.8	267.2	259.8	267.1	244.0	257.9	265.8	273.5	278.0	100.0
Industry	33.8	29.6	27.1	27.5	26.5	23.9	24.1	27.6	29.0	32.3	11.6
Transport	136.4	131.1	135.1	128.3	140.9	120.6	133.4	139.5	143.7	147.0	52.9
Residential/Commercial	15.4	15.6	14.9	15.4	14.1	13.4	13.3	13.6	13.9	14.1	5.1
Natural gas final consumption, by sector	195.1	200.6	196.9	199.8	226.6	235.4	235.0	242.5	255.3	255.3	100.0
Industry	101.3	97.7	94.6	94.7	107.0	111.9	114.5	119.0	127.8	128.7	50.4
Transport	5.9	6.5	6.5	6.3	6.4	6.9	7.3	7.5	7.7	7.5	3.0
Residential/Commercial	49.0	53.2	50.0	50.9	62.3	64.7	65.5	66.3	68.3	67.0	26.3
Refined products consumption	244.8	261.0	265.0	257.0	265.5	243.1	257.0	264.9	272.6	277.1	100.0
Gasoline	75.7	76.3	84.4	82.2	83.6	70.1	77.9	81.3	84.2	86.0	31.0
Diesel	70.3	67.0	61.3	58.8	69.4	63.2	68.0	71.5	73.1	74.0	26.7
Heating Oil	21.8	16.4	15.2	13.4	13.6	12.5	12.2	15.6	16.2	16.6	6.0
Aviation Jet	2.5	2.6	2.8	2.8	2.6	1.7	2.2	1.9	1.9	2.6	0.9
LPG	16.7	26.3	26.1	25.1	24.8	25.7	26.2	23.6	23.5	23.6	8.5
Imports	144.9	141.3	145.9	164.1	138.5	143.6	143.6	148.7	158.8	156.0	100.0
Oil	111.8	107.8	111.7	130.4	104.1	104.7	108.2	110.5	121.6	119.0	76.3
Gas	33.2	33.4	34.2	33.7	34.5	38.9	35.3	38.2	37.2	37.0	23.7
Gasoline	22.0	22.7	26.4	36.2	18.9	17.6	17.8	19.1	18.6	18.7	12.0
Diesel	23.1	20.1	12.8	17.9	8.5	7.5	10.5	9.0	10.5	5.8	3.7
Heating Oil	22.5	21.0	20.9	26.8	27.4	27.9	27.7	28.9	31.0	29.8	19.1
Aviation Jet	2.2	4.0	2.1	2.2	0.6	0.3	0.2	0.2	0.2	0.0	0.0
LPG	2.1	2.2	1.6	1.5	1.5	1.4	1.3	1.4	1.5	1.6	1.0
Exports	1,264.0	1,405.4	1,370.9	1,381.1	1,275.7	1,200.8	1,197.8	1,307.3	1,262.6	1,231.8	100.0
Oil	1,124.4	1,263.1	1,226.9	1,240.3	1,129.6	1,053.4	1,048.9	1,152.0	1,110.5	1,076.9	87.4
Gas	139.5	142.3	144.0	140.8	146.0	147.4	148.9	155.3	152.1	154.9	12.6
Gasoline	9.8	13.8	15.2	23.9	13.4	18.5	15.0	19.4	18.6	19.7	1.6
Diesel	47.5	59.9	56.4	70.7	60.2	54.1	68.1	64.9	62.1	67.6	5.5
Heating Oil	30.4	40.0	48.4	51.4	35.6	28.3	32.7	34.7	38.7	40.6	3.3
Aviation Jet	11.7	12.7	12.2	15.8	10.6	9.4	10.0	10.0	10.1	10.0	0.8
LPG	51.1	41.3	39.9	42.2	39.3	35.8	36.4	44.5	46.3	47.9	3.9
CO₂ Emissions (Million tons CO₂)	1,838.2	1,828.6	1,828.6	1,803.4	1,923.5	1,896.3	1,994.5	2,050.7	2,135.5	2,161.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	376.3	356.7	353.2	343.6	364.9	371.3	374.5	363.1	372.8	370.4	-
Final energy intensity (toe/million \$15ppp)	91.7	86.5	85.7	84.0	90.5	90.5	91.5	89.6	92.5	92.9	-
Total energy intensity (toe/million \$15ppp)	161.6	158.6	159.3	157.3	164.6	168.0	167.3	161.7	164.4	164.1	-

*Heat is included

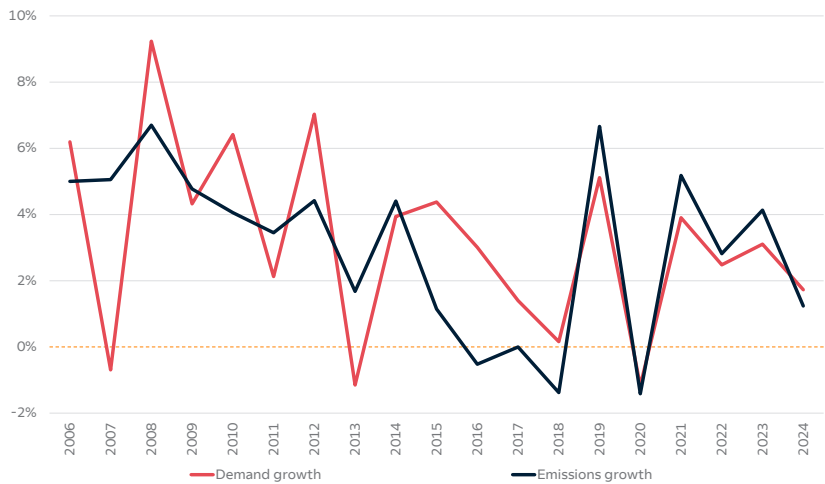
Primary energy demand mix



Electricity generation by source

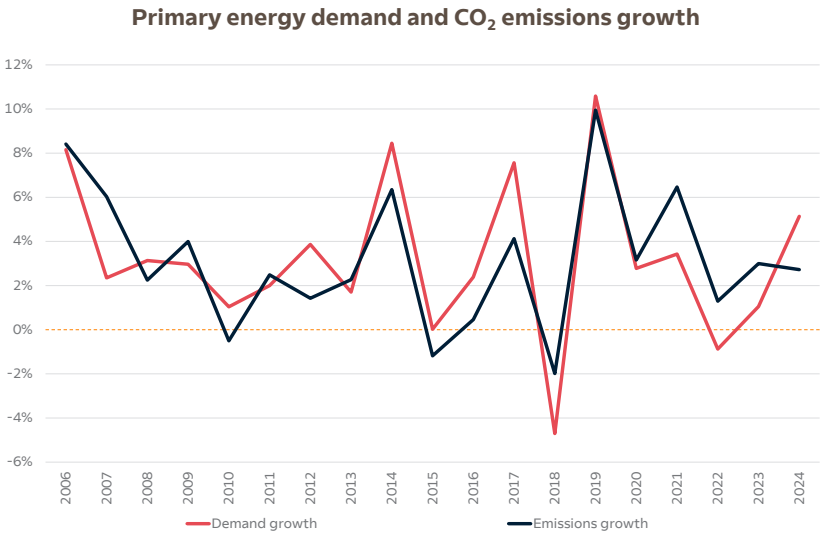
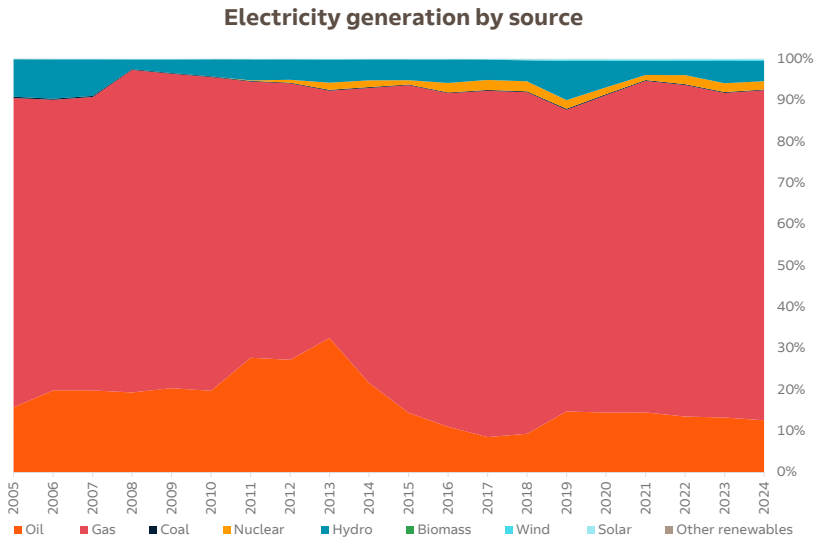
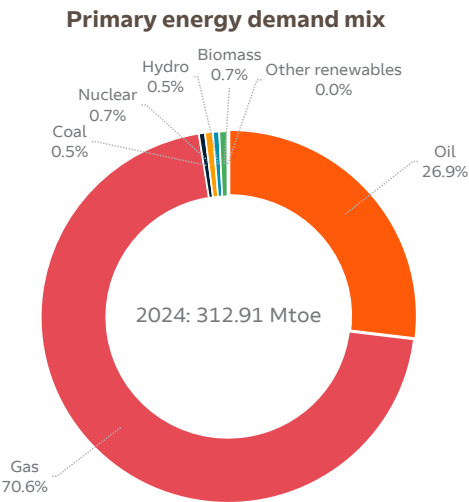


Primary energy demand and CO₂ emissions growth



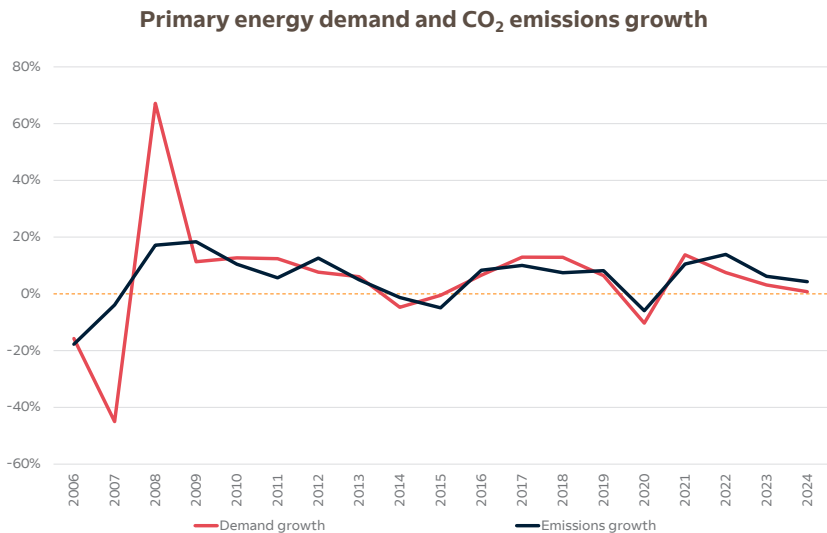
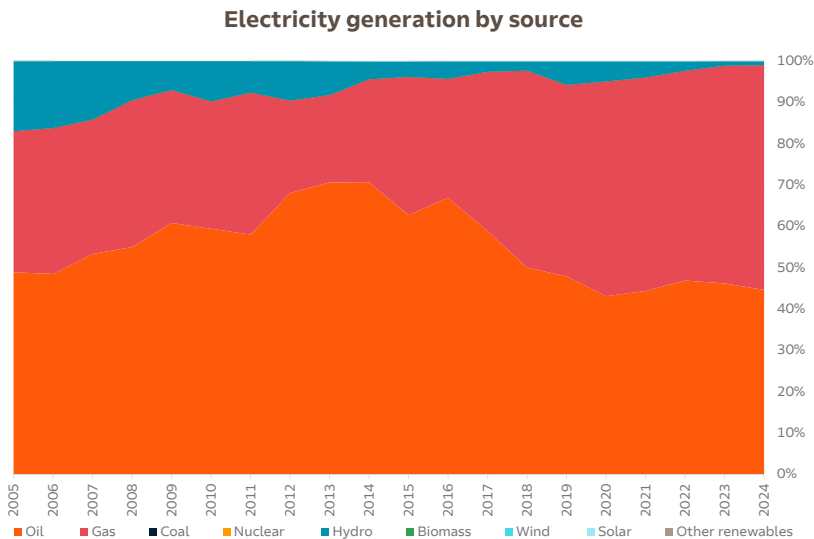
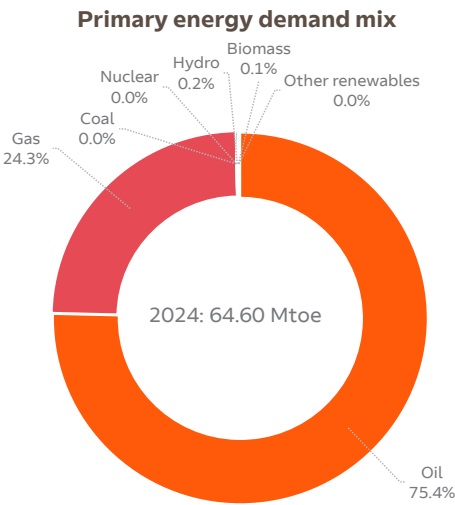
Iran (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	240.8	246.6	265.2	252.8	279.5	287.3	297.1	294.5	297.6	312.9	100.0
Oil	79.9	74.2	84.4	75.6	84.3	77.2	84.4	77.3	72.8	84.2	26.9
Gas	155.9	166.4	174.6	170.8	187.6	203.3	206.6	210.0	217.1	220.8	70.6
Coal	1.1	0.9	1.2	1.2	1.5	1.7	1.9	2.0	1.6	1.6	0.5
Nuclear	0.8	1.7	2.0	1.9	1.8	1.4	1.1	2.1	2.1	2.1	0.7
Hydro	1.2	1.4	1.3	1.4	2.7	1.9	1.1	1.1	1.8	1.7	0.5
Biomass	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	0.7
Other renewables	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Electricity balance of trade*	-0.2	-0.2	-0.4	-0.3	-0.6	-0.6	-0.2	-0.2	-0.1	0.0	0.0
Total final consumption, by source	178.3	189.5	199.9	191.0	212.3	217.8	220.5	223.7	230.6	230.9	100.0
Oil	61.9	64.6	72.8	66.6	66.4	61.8	64.6	64.7	66.6	68.0	29.4
Gas	93.7	101.5	102.6	99.2	119.4	128.4	126.6	128.6	132.5	130.1	56.3
Coal	0.5	0.6	0.7	0.8	0.8	0.8	1.1	1.1	0.9	0.9	0.4
Electricity	20.0	20.7	21.6	22.3	23.6	24.7	26.1	27.1	28.4	29.8	12.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	1.0
Electricity generation, by source	24.1	24.9	26.5	26.6	28.1	29.4	30.6	31.6	32.7	34.5	100.0
Oil	3.5	2.8	2.3	2.5	4.2	4.3	4.5	4.3	4.4	4.4	12.6
Gas	19.1	20.1	22.2	22.0	20.5	22.6	24.5	25.4	25.7	27.5	79.8
Coal	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Nuclear	0.3	0.6	0.6	0.6	0.6	0.5	0.4	0.7	0.7	0.7	2.0
Hydro	1.2	1.4	1.3	1.4	2.7	1.9	1.1	1.1	1.8	1.7	4.9
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Other renewables	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	178.3	189.5	199.9	191.0	212.3	217.8	220.5	223.7	230.6	230.9	100.0
Industry	42.1	44.2	46.0	45.9	53.2	57.8	62.8	63.9	65.8	67.7	29.3
Transport	46.6	44.1	50.2	47.4	49.2	44.3	48.7	49.0	50.3	51.1	22.1
Residential/Comercial	63.4	67.7	65.1	63.8	74.4	77.2	78.0	79.7	81.6	81.3	35.2
Oil final consumption, by sector	61.9	64.6	72.8	66.6	66.4	61.8	64.6	64.7	66.6	68.0	100.0
Industry	3.4	3.5	3.7	3.9	4.1	4.3	4.7	4.6	5.2	7.5	11.1
Transport	40.7	37.6	43.7	41.0	42.7	37.4	41.4	41.5	42.6	43.5	64.1
Residential/Comercial	6.2	6.0	5.3	5.4	4.6	4.1	4.0	4.2	4.3	4.4	6.4
Natural gas final consumption, by sector	93.7	101.5	102.6	99.2	119.4	128.4	126.6	128.6	132.5	130.1	100.0
Industry	31.8	33.6	35.2	34.0	40.5	44.1	48.2	49.0	50.5	49.5	38.1
Transport	5.9	6.5	6.5	6.3	6.4	6.9	7.3	7.5	7.7	7.5	5.8
Residential/Comercial	44.9	49.0	46.3	44.8	55.7	58.8	58.8	59.8	61.6	60.4	46.5
Refined products consumption	61.9	64.6	72.8	66.6	66.4	61.8	64.6	64.7	66.6	68.0	100.0
Gasoline	20.2	20.1	26.8	23.4	25.4	21.4	24.7	24.6	25.7	26.5	39.1
Diesel	21.8	21.6	21.8	22.8	21.9	21.5	22.2	23.0	23.1	23.2	34.1
Heating Oil	5.8	2.0	1.1	1.0	1.2	1.1	1.6	1.4	1.4	1.4	2.1
Aviation Jet	0.8	0.9	1.0	0.9	0.7	0.6	0.7	0.3	0.3	0.4	0.5
LPG	1.9	2.3	2.3	2.4	2.1	2.2	2.1	2.1	2.2	2.2	3.3
Imports	10.5	8.6	7.9	7.9	1.8	1.7	1.9	2.0	2.0	2.1	100.0
Oil	3.3	3.6	4.6	6.1	1.5	1.4	1.5	1.5	1.6	1.6	78.6
Gas	7.2	5.0	3.3	1.8	0.3	0.3	0.4	0.4	0.4	0.4	21.4
Gasoline	2.8	2.4	3.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	92.1	158.0	155.7	132.9	77.9	65.3	81.3	98.0	117.3	128.2	100.0
Oil	84.5	150.3	144.5	121.1	63.2	51.0	66.7	82.4	105.2	115.7	90.2
Gas	7.6	7.7	11.2	11.8	14.8	14.4	14.6	15.6	12.2	12.5	9.8
Gasoline	0.0	0.0	0.0	0.0	2.0	4.6	1.8	3.1	3.1	3.2	2.5
Diesel	1.8	3.6	2.1	2.1	2.2	2.1	2.5	2.9	3.0	3.1	2.4
Heating Oil	9.2	15.2	15.2	15.3	16.0	15.8	18.8	18.8	18.4	18.0	14.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	2.9	3.0	2.8	5.7	5.4	4.9	6.3	9.2	10.2	11.3	8.8
CO₂ Emissions (Million tons CO₂)	554.5	557.0	580.0	568.5	625.1	644.8	686.5	695.4	716.2	735.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	490.2	452.6	458.6	457.9	519.4	518.6	527.2	514.6	504.6	500.9	-
Final energy intensity (toe/million \$15ppp)	140.9	132.6	133.7	132.6	153.7	151.9	153.6	150.5	147.9	144.6	-
Total energy intensity (toe/million \$15ppp)	212.9	200.3	209.7	203.6	232.3	231.0	228.2	218.0	209.7	213.0	-

*Heat is included



Iraq (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	39.2	41.7	47.1	53.2	56.6	50.8	57.8	62.1	64.1	64.6	100.0
Oil	32.1	32.7	35.8	38.5	38.8	31.7	38.1	45.6	47.3	48.3	74.8
Gas	5.7	7.7	9.9	12.6	14.4	15.3	15.8	15.8	16.2	15.6	24.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.2	0.1	0.1	0.2
Biomass	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	1.1	1.0	1.2	1.9	3.0	3.3	3.6	0.5	0.5	0.5	0.8
Total final consumption, by source	17.7	17.7	20.0	22.0	23.4	21.4	25.2	27.4	28.6	29.8	100.0
Oil	12.8	12.8	14.5	16.6	17.6	15.3	18.1	20.1	20.8	21.3	71.4
Gas	1.2	1.6	1.9	2.0	2.2	2.2	2.6	2.4	2.5	2.4	8.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.7	3.3	3.5	3.4	3.6	3.8	4.5	4.8	5.4	6.1	20.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	5.9	6.9	7.4	7.0	7.5	7.3	7.4	9.9	11.1	12.6	100.0
Oil	3.7	4.6	4.3	3.5	3.6	3.2	3.3	4.7	5.1	5.6	44.6
Gas	2.0	2.0	2.8	3.3	3.5	3.8	3.8	5.0	5.9	6.9	54.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.2	0.3	0.2	0.2	0.4	0.4	0.3	0.2	0.1	0.1	0.9
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	-0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	17.7	17.7	20.0	22.0	23.4	21.4	25.2	27.4	28.6	29.8	100.0
Industry	3.5	3.5	4.1	4.6	4.9	4.6	5.2	5.8	6.0	6.1	20.4
Transport	7.9	8.1	9.1	10.7	11.3	9.4	11.7	13.5	13.8	14.3	48.0
Residential/Commercial	5.8	5.6	6.1	6.2	6.4	6.6	7.3	7.5	8.1	8.8	29.5
Oil final consumption, by sector	12.8	12.8	14.5	16.6	17.6	15.3	18.1	20.1	20.8	21.3	100.0
Industry	1.8	1.8	2.0	2.4	2.6	2.2	2.5	2.8	2.9	3.0	14.1
Transport	7.9	8.1	9.1	10.7	11.3	9.4	11.7	13.5	13.8	14.3	67.3
Residential/Commercial	2.9	2.8	3.1	3.2	3.3	3.3	3.4	3.3	3.4	3.5	16.3
Natural gas final consumption, by sector	1.2	1.6	1.9	2.0	2.2	2.2	2.6	2.4	2.5	2.4	100.0
Industry	1.0	1.3	1.7	1.8	1.9	1.9	2.2	2.4	2.5	2.4	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	12.8	12.8	14.5	16.6	17.6	15.3	18.1	20.1	20.8	21.3	100.0
Gasoline	4.7	4.9	5.6	6.3	6.6	5.4	7.2	8.3	8.6	8.9	41.8
Diesel	4.7	4.7	5.3	6.5	7.1	6.1	6.8	7.8	7.8	8.1	38.1
Heating Oil	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	1.4
Aviation Jet	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	1.6	1.5	1.7	1.7	1.8	1.8	1.9	2.0	2.1	2.1	10.0
Imports	3.7	4.7	5.7	7.8	9.6	13.1	12.9	13.0	12.4	11.5	100.0
Oil	3.7	4.7	4.5	4.4	4.6	3.8	5.0	5.3	4.9	5.1	44.2
Gas	0.0	0.0	1.2	3.5	5.0	9.3	8.0	7.7	7.5	6.4	55.8
Gasoline	1.5	2.3	2.5	2.7	2.9	2.1	3.6	3.9	3.6	3.7	32.4
Diesel	1.4	1.8	1.8	1.4	1.5	1.4	1.1	1.2	1.2	1.3	11.1
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	0.4	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	150.9	191.7	194.8	195.7	204.0	177.2	171.0	184.1	173.1	170.2	100.0
Oil	150.9	191.7	194.8	195.7	204.0	177.2	171.0	184.1	173.1	170.2	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating Oil	0.4	0.3	3.5	1.1	3.7	3.4	3.9	4.5	5.4	6.3	3.7
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2
CO₂ Emissions (Million tons CO₂)	103.0	111.6	122.8	131.9	142.7	134.3	148.4	169.0	179.5	187.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	293.7	279.7	313.4	328.1	336.4	359.8	391.8	414.6	453.5	471.5	-
Final energy intensity (toe/million \$15ppp)	49.1	43.4	49.7	53.5	53.6	55.4	64.3	66.0	70.8	73.8	-
Total energy intensity (toe/million \$15ppp)	111.7	104.6	120.3	132.4	133.5	136.2	152.6	152.5	162.0	162.7	-

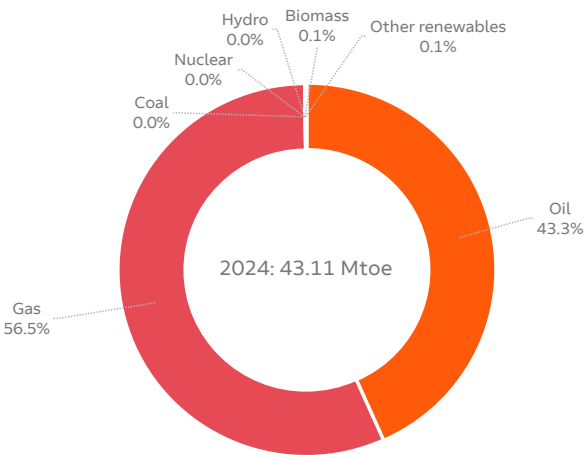
*Heat is included



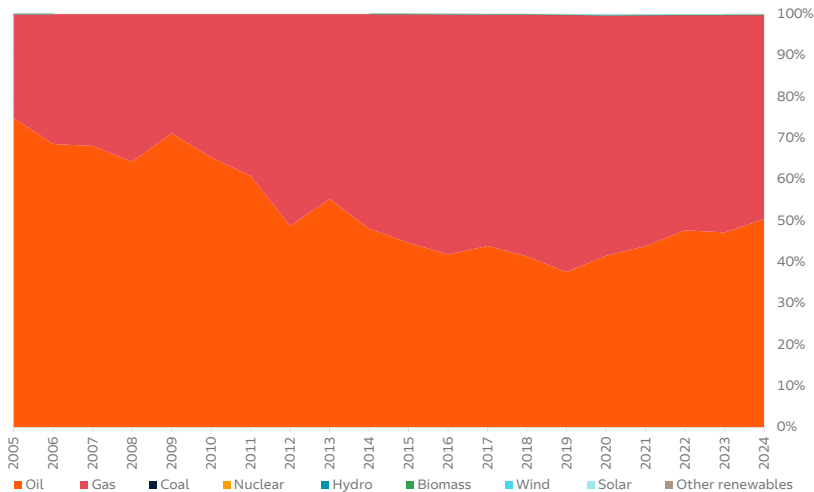
Kuwait (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	34.7	40.0	38.4	39.3	40.3	36.7	36.4	40.8	42.6	43.1	100.0
Oil	17.6	21.9	20.0	20.5	20.1	14.1	12.7	20.1	19.8	18.7	43.3
Gas	17.1	18.0	18.3	18.7	20.2	22.6	23.6	20.7	22.7	24.4	56.5
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity balance of trade*	-0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	16.2	18.3	18.4	19.0	19.0	18.6	21.0	23.2	23.8	23.6	100.0
Oil	9.2	10.9	10.4	10.9	10.7	10.0	11.3	13.1	12.8	11.5	48.8
Gas	3.6	3.8	4.3	4.4	4.6	4.8	5.5	5.8	6.5	7.0	29.6
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	3.4	3.5	3.7	3.7	3.8	3.7	4.1	4.2	4.4	5.1	21.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	5.9	6.0	6.3	6.4	6.5	6.4	6.9	7.2	7.6	8.7	100.0
Oil	2.6	2.5	2.8	2.6	2.4	2.7	3.0	3.4	3.6	4.4	50.4
Gas	3.2	3.5	3.6	3.7	4.0	3.7	3.9	3.7	4.0	4.3	49.4
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Other renewables	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
Total final consumption, by sector	16.2	18.3	18.4	19.0	19.0	18.6	21.0	23.2	23.8	23.6	100.0
Industry	4.8	4.9	5.3	5.4	5.5	5.7	6.5	6.1	6.8	7.3	30.9
Transport	4.6	4.7	5.0	5.3	5.3	4.3	5.3	5.7	5.6	5.6	23.7
Residential/Comercial	3.5	3.6	3.9	3.9	3.9	3.9	4.2	4.4	4.7	5.2	22.0
Oil final consumption, by sector	9.2	10.9	10.4	10.9	10.7	10.0	11.3	13.1	12.8	11.5	100.0
Industry	1.2	1.1	1.0	1.0	0.9	0.9	1.0	0.4	0.3	0.3	2.6
Transport	4.6	4.7	5.0	5.3	5.3	4.3	5.3	5.7	5.6	5.6	48.5
Residential/Comercial	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.3	2.8
Natural gas final consumption, by sector	3.6	3.8	4.3	4.4	4.6	4.8	5.5	5.8	6.5	7.0	100.0
Industry	3.6	3.8	4.3	4.4	4.6	4.8	5.5	5.8	6.5	7.0	100.0
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Comercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	9.2	10.9	10.4	10.9	10.7	10.0	11.3	13.1	12.8	11.5	100.0
Gasoline	3.2	3.2	3.3	3.5	3.5	2.7	3.5	3.7	3.9	3.9	34.0
Diesel	2.3	2.3	2.3	2.5	2.5	2.2	2.5	2.1	1.9	1.8	15.4
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.1
Imports	3.3	4.1	4.6	4.3	4.4	5.3	8.0	8.6	8.0	9.4	100.0
Oil	0.0	0.0	0.1	0.2	0.2	0.3	1.7	1.6	0.6	1.1	11.8
Gas	3.3	4.1	4.5	4.1	4.2	5.0	6.3	7.0	7.4	8.3	88.2
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.5
Heating Oil	0.0	0.0	0.1	0.2	0.2	0.3	1.7	1.6	0.6	0.6	6.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	137.4	140.2	130.5	132.0	127.0	120.4	120.1	127.0	123.6	115.3	100.0
Oil	137.4	140.2	130.5	132.0	127.0	120.4	120.1	127.0	123.6	115.3	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	0.5	0.6	0.5	0.5	0.4	0.3	0.3	0.1	0.0	0.1	0.1
Diesel	8.2	7.1	6.0	5.8	5.8	6.1	6.7	8.9	11.7	16.4	14.2
Heating Oil	4.9	4.4	3.7	3.6	3.1	1.7	1.2	0.9	5.4	7.8	6.8
Aviation Jet	1.9	1.6	0.9	1.0	0.7	1.0	1.6	1.8	2.3	2.4	2.1
LPG	4.8	5.2	5.3	5.5	5.2	5.0	5.2	5.7	6.1	6.6	5.7
CO₂ Emissions (Million tons CO₂)	87.2	88.7	88.7	90.8	91.6	90.6	99.0	93.9	93.6	97.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	502.2	496.3	520.9	519.2	512.2	532.2	568.5	509.3	527.0	562.5	-
Final energy intensity (toe/million \$15ppp)	75.2	75.1	84.2	84.1	83.4	82.3	93.0	89.3	97.6	106.0	-
Total energy intensity (toe/million \$15ppp)	200.0	223.7	225.5	224.4	225.4	215.8	208.9	221.4	239.8	249.8	-

*Heat is included

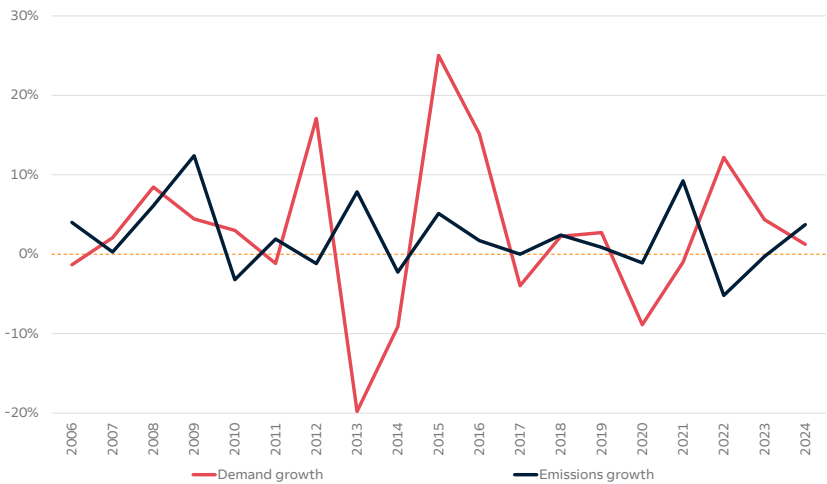
Primary energy demand mix



Electricity generation by source



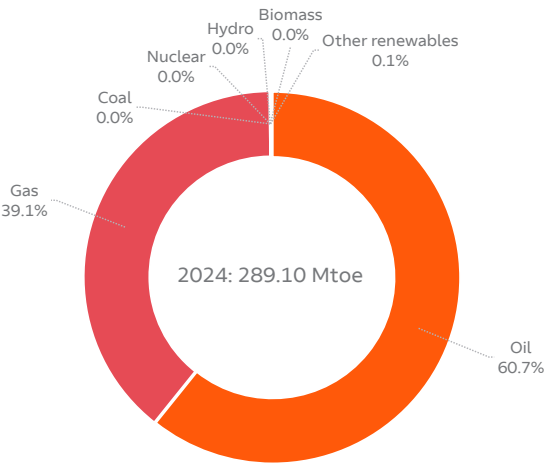
Primary energy demand and CO₂ emissions growth



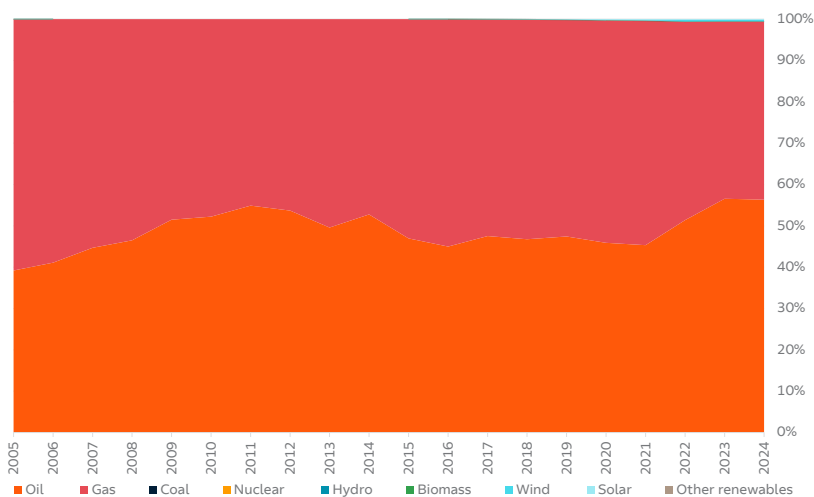
Saudi Arabia (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	250.0	262.4	255.0	258.9	270.3	256.7	270.9	281.5	292.1	289.1	100.0
Oil	162.4	169.4	157.5	157.8	168.2	153.8	164.9	170.2	180.2	175.5	60.7
Gas	87.6	93.0	97.4	101.0	101.9	102.7	105.7	110.9	111.5	113.2	39.1
Coal	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1
Electricity balance of trade*	-0.0	-0.1	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	171.5	182.6	177.1	176.5	184.7	174.0	181.1	189.2	195.5	199.5	100.0
Oil	109.0	117.3	107.8	103.1	111.8	101.6	106.8	109.3	112.2	113.9	57.1
Gas	37.6	40.1	41.9	47.5	48.0	47.4	48.3	52.2	54.1	55.6	27.9
Coal	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electricity	24.9	25.2	27.2	25.7	24.8	24.9	25.9	27.6	29.1	29.9	15.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity generation, by source	29.1	29.7	32.6	30.9	31.6	31.6	32.6	37.6	39.7	40.8	100.0
Oil	13.7	13.4	15.5	14.4	15.0	14.5	14.8	19.3	22.4	23.0	56.3
Gas	15.4	16.3	17.1	16.4	16.6	17.0	17.7	18.1	17.0	17.6	43.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3
Solar	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
Other renewables	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	171.5	182.6	177.1	176.5	184.7	174.0	181.1	189.2	195.5	199.5	100.0
Industry	43.2	38.3	37.8	40.5	40.2	38.9	37.2	40.8	42.2	43.3	21.7
Transport	48.6	46.0	41.1	35.2	46.2	38.6	42.5	45.2	46.9	47.9	24.0
Residential/Comercial	22.5	23.6	23.6	22.1	21.2	21.2	22.2	25.0	26.5	27.2	13.6
Oil final consumption, by sector	109.0	117.3	107.8	103.1	111.8	101.6	106.8	109.3	112.2	113.9	100.0
Industry	23.0	18.9	15.4	15.1	14.2	12.6	11.9	14.9	15.5	15.9	14.0
Transport	48.6	46.0	41.1	35.2	46.2	38.6	42.5	45.2	46.9	47.9	42.1
Residential/Comercial	1.6	2.3	1.7	1.8	1.7	1.7	1.8	1.8	1.9	1.9	1.7
Natural gas final consumption, by sector	37.6	40.1	41.9	47.5	48.0	47.4	48.3	52.2	54.1	55.6	100.0
Industry	16.6	15.9	17.4	20.4	21.2	21.3	20.2	21.8	22.6	23.3	41.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Comercial	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	103.6	114.5	105.6	100.4	110.2	100.7	106.0	108.3	111.3	112.9	100.0
Gasoline	27.0	26.2	25.7	25.8	25.3	21.0	22.1	23.2	23.6	23.9	21.2
Diesel	24.9	23.4	16.0	11.2	22.7	19.9	22.5	24.2	25.6	25.9	22.9
Heating Oil	13.4	11.8	11.6	9.7	9.9	9.0	8.2	10.9	11.4	11.7	10.4
Aviation Jet	0.9	0.8	0.9	0.9	0.9	0.5	0.8	0.8	0.9	1.4	1.2
LPG	7.5	16.7	16.6	15.6	15.7	17.0	17.6	14.9	14.6	14.3	12.7
Imports	30.1	28.5	25.0	42.5	21.0	21.2	21.1	20.6	26.1	23.7	100.0
Oil	30.1	28.5	25.0	42.5	21.0	21.2	21.1	20.6	26.1	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	10.0	9.0	8.9	14.8	4.2	4.5	3.7	4.1	3.9	3.8	15.9
Diesel	12.8	11.3	4.6	10.1	1.0	0.4	4.5	3.2	4.5	1.3	5.6
Heating Oil	5.3	7.2	10.1	16.1	10.7	11.1	9.3	10.1	12.7	11.5	48.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	439.9	461.0	449.2	480.2	424.7	403.6	389.6	431.7	387.9	359.1	100.0
Oil	439.9	461.0	449.2	480.2	424.7	403.6	389.6	431.7	387.9	359.1	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	7.5	9.5	10.8	18.6	4.5	6.8	6.6	9.9	9.3	10.2	2.8
Diesel	20.6	29.5	31.1	42.5	30.4	25.3	34.0	33.4	28.1	28.6	8.0
Heating Oil	7.7	8.4	13.5	17.8	4.3	3.4	4.5	5.9	5.3	4.1	1.1
Aviation Jet	0.2	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.0
LPG	22.3	10.4	9.5	10.1	9.7	8.2	7.3	9.6	9.5	9.3	2.6
CO₂ Emissions (Million tons CO₂)	572.6	561.1	528.7	506.7	548.0	531.2	561.1	588.7	629.8	626.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	368.8	354.7	331.2	307.6	329.1	330.8	332.6	324.6	349.9	343.4	-
Final energy intensity (toe/million \$15ppp)	84.4	80.5	76.7	73.0	78.0	74.8	74.6	74.9	78.6	79.6	-
Total energy intensity (toe/million \$15ppp)	161.0	165.9	159.8	157.2	162.3	159.8	160.5	155.2	162.3	158.6	-

*Heat is included

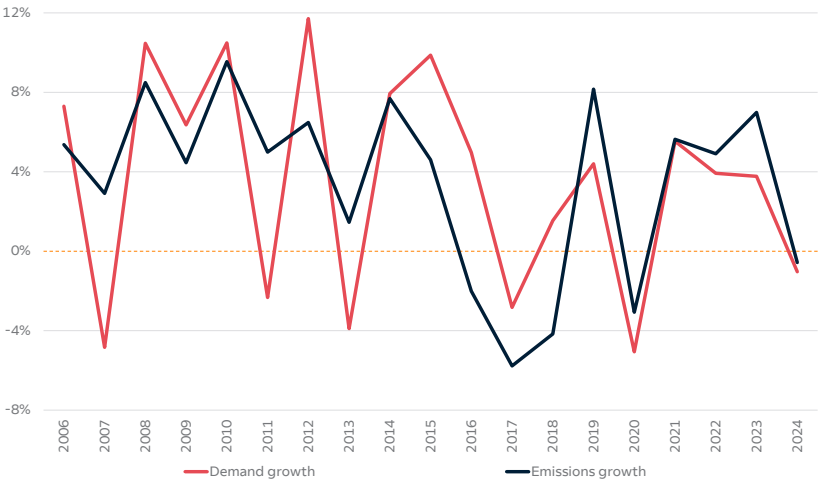
Primary energy demand mix



Electricity generation by source



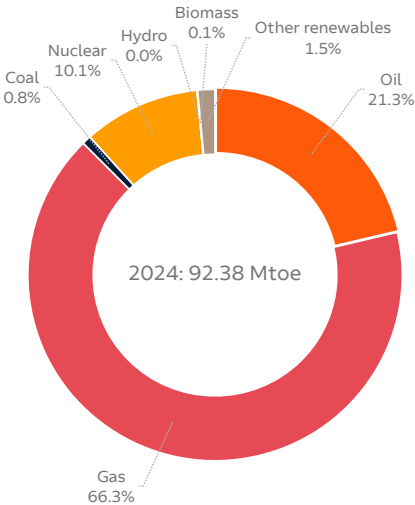
Primary energy demand and CO₂ emissions growth



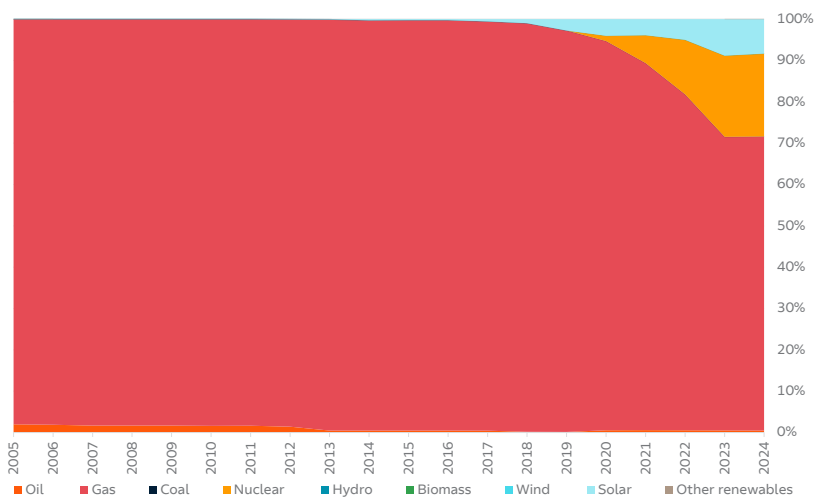
United Arab Emirates (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	86.1	87.7	75.8	78.4	80.1	84.4	84.9	87.3	91.7	92.4	100.0
Oil	25.6	26.8	21.1	24.9	20.7	23.4	24.5	21.3	19.7	19.7	21.3
Gas	58.6	59.0	52.4	51.4	57.2	57.8	54.5	58.8	61.1	61.2	66.3
Coal	1.7	1.8	2.1	1.9	1.8	2.1	2.7	1.0	0.9	0.7	0.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.5	2.6	5.4	8.6	9.3	10.1
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Other renewables	0.1	0.1	0.1	0.2	0.4	0.5	0.5	0.7	1.4	1.4	1.5
Electricity balance of trade*	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
Total final consumption, by source	63.8	59.9	54.9	53.3	56.6	57.1	58.1	58.0	65.2	66.6	100.0
Oil	18.0	19.2	20.7	20.4	19.5	18.0	19.2	18.9	20.0	20.0	30.0
Gas	34.6	29.3	22.1	21.0	24.9	26.8	25.1	26.4	31.7	32.6	48.9
Coal	1.7	1.8	2.1	1.9	1.8	2.1	2.7	1.0	0.9	0.7	1.1
Electricity	9.4	9.5	9.8	10.0	10.3	10.2	11.1	11.6	12.6	13.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Electricity generation, by source	11.0	11.1	11.6	11.7	11.9	11.8	12.8	13.4	14.5	15.3	100.0
Oil	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.5
Gas	10.9	11.1	11.5	11.6	11.6	11.1	11.4	10.9	10.3	10.9	71.1
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.8	2.8	3.1	20.1
Hydro	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.1	0.1	0.3	0.5	0.5	0.7	1.3	1.3	8.3
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	63.8	59.9	54.9	53.3	56.6	57.1	58.1	58.0	65.2	66.6	100.0
Industry	39.3	34.2	27.2	26.0	29.7	31.6	30.6	30.6	35.8	36.6	54.9
Transport	11.5	11.5	12.5	12.5	11.9	10.2	11.5	11.8	12.6	12.6	18.9
Residential/Commercial	7.8	8.0	8.3	8.4	8.3	8.4	9.2	9.5	10.3	10.9	16.4
Oil final consumption, by sector	18.0	19.2	20.7	20.4	19.5	18.0	19.2	18.9	20.0	20.0	100.0
Industry	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	7.9
Transport	11.5	11.5	12.5	12.5	11.9	10.2	11.5	11.8	12.6	12.6	63.1
Residential/Commercial	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.1
Natural gas final consumption, by sector	34.6	29.3	22.1	21.0	24.9	26.8	25.1	26.4	31.7	32.6	100.0
Industry	34.4	29.0	21.8	20.7	24.4	26.3	24.6	26.0	31.3	32.1	98.5
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Refined products consumption	18.0	19.2	20.7	20.4	19.5	18.0	19.2	18.9	20.0	20.0	100.0
Gasoline	7.1	7.9	8.8	9.2	8.6	7.1	7.8	8.2	8.7	8.7	43.7
Diesel	4.1	3.3	3.4	3.0	3.0	2.8	3.3	3.2	3.5	3.5	17.4
Heating Oil	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.4	7.2
Aviation Jet	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	2.0
LPG	1.9	2.0	1.7	1.3	1.3	0.9	0.9	0.9	0.9	0.9	4.5
Imports	40.8	39.9	43.3	45.4	45.9	53.6	53.1	55.1	60.8	60.9	100.0
Oil	21.6	21.2	24.5	26.6	27.0	34.6	36.7	36.9	43.2	43.3	71.0
Gas	19.2	18.8	18.8	18.7	18.9	19.0	16.4	18.3	17.6	17.7	29.0
Gasoline	3.3	4.2	6.7	8.7	7.0	6.2	5.6	5.8	6.2	6.3	10.3
Diesel	2.4	0.7	0.2	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Heating Oil	14.0	11.6	8.2	8.3	14.6	14.6	15.1	15.9	16.3	16.3	26.7
Aviation Jet	1.6	3.2	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	176.2	185.5	179.7	176.6	178.4	173.3	171.6	192.6	189.7	188.9	100.0
Oil	165.2	174.4	168.0	169.0	170.5	166.0	165.6	186.5	183.8	182.0	96.4
Gas	11.1	11.1	11.7	7.6	7.9	7.4	6.0	6.1	5.9	6.9	3.6
Gasoline	0.9	2.7	3.0	3.3	5.2	5.7	4.7	5.0	5.2	5.1	2.7
Diesel	5.5	9.7	7.1	8.6	9.9	7.6	10.2	6.7	6.8	6.7	3.6
Heating Oil	3.0	6.6	6.1	7.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	5.8	7.2	6.4	9.0	4.6	4.1	4.8	4.2	3.9	3.8	2.0
LPG	10.3	11.9	11.5	10.8	10.8	10.1	10.2	12.4	12.7	12.7	6.7
CO₂ Emissions (Million tons CO₂)	195.3	188.4	177.2	174.1	177.5	175.9	179.0	176.3	181.2	180.9	-
CO₂ Intensity (tCO₂/million \$15ppp)	320.1	292.6	273.1	264.9	267.1	278.5	271.6	248.9	246.8	237.4	-
Final energy intensity (toe/million \$15ppp)	96.6	83.7	74.5	71.9	75.5	79.9	78.4	73.8	80.6	79.5	-
Total energy intensity (toe/million \$15ppp)	141.1	136.2	116.8	119.3	120.5	133.7	128.8	123.2	124.9	121.3	-

*Heat is included

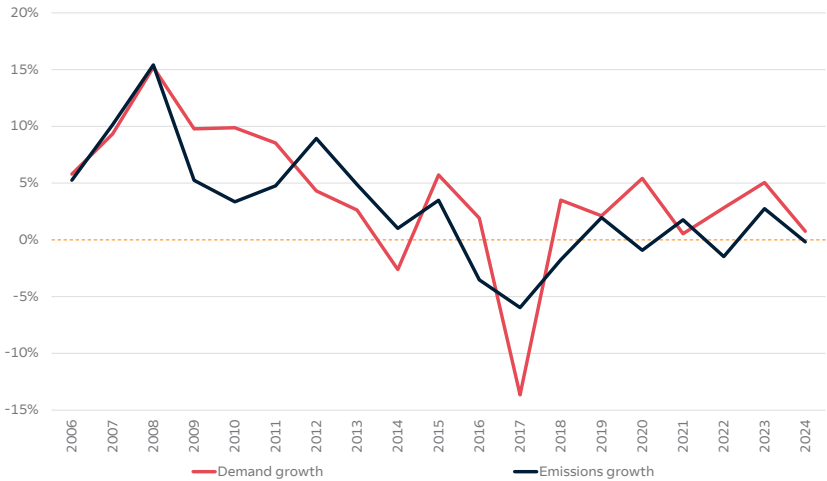
Primary energy demand mix



Electricity generation by source



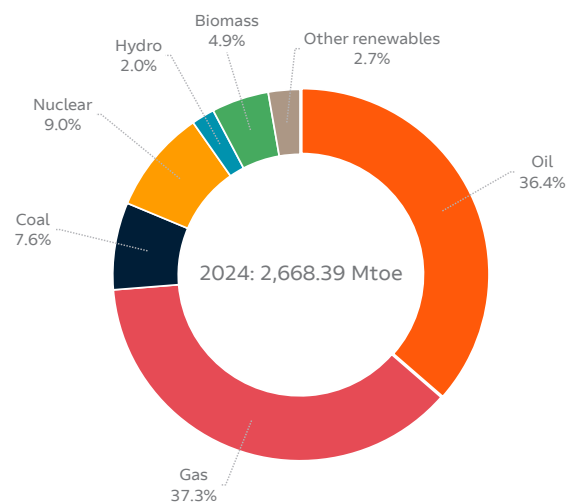
Primary energy demand and CO₂ emissions growth



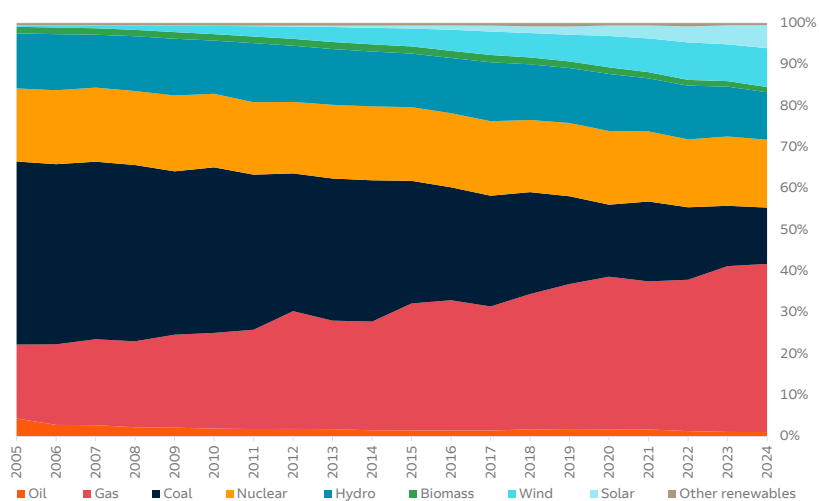
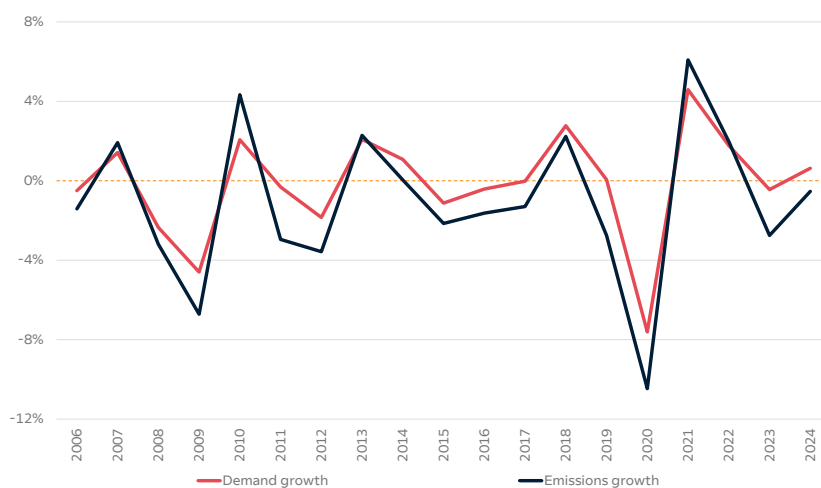
North America (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	2,645.4	2,634.4	2,633.8	2,706.8	2,708.4	2,502.4	2,617.1	2,663.5	2,651.7	2,668.4	100.0
Oil	977.7	964.7	971.3	983.5	985.6	873.9	942.8	944.9	958.1	963.3	36.1
Gas	797.4	824.0	819.1	884.6	929.9	903.1	912.7	965.2	967.0	986.5	37.0
Coal	405.6	372.8	362.5	346.2	298.4	240.8	271.2	255.3	217.7	200.8	7.5
Nuclear	245.9	248.1	247.8	249.1	249.1	243.0	238.7	235.0	236.9	238.1	8.9
Hydro	57.1	59.0	62.7	61.4	59.8	60.2	57.8	59.3	54.3	52.8	2.0
Biomass	122.5	122.2	123.3	129.4	130.1	120.5	126.3	126.1	129.9	130.8	4.9
Other renewables	23.4	28.3	32.6	35.9	39.6	45.9	52.6	60.6	63.6	72.1	2.7
Electricity balance of trade*	15.8	15.3	14.4	16.8	15.8	14.9	15.0	17.1	24.1	24.0	0.9
Total final consumption, by source	1,791.8	1,801.0	1,809.7	1,877.2	1,861.1	1,701.5	1,778.8	1,842.1	1,827.7	1,823.0	100.0
Oil	893.9	899.9	900.5	914.4	907.2	794.7	853.8	882.9	886.4	878.3	48.2
Gas	379.7	381.6	391.7	421.9	421.3	390.0	398.4	414.5	397.5	391.9	21.5
Coal	25.8	22.4	23.5	22.0	20.4	17.7	17.0	16.9	14.8	13.6	0.7
Electricity	389.9	393.4	390.2	406.1	398.4	394.7	400.1	415.9	412.1	421.3	23.1
Heat	8.9	9.9	9.0	10.7	10.0	10.0	9.9	10.0	10.2	10.6	0.6
Biomass	93.5	93.8	94.9	102.2	103.9	94.4	99.6	101.9	106.6	107.3	5.9
Electricity generation, by source	454.6	456.5	453.4	470.5	463.4	449.7	464.5	472.2	466.7	477.9	100.0
Oil	6.7	6.6	6.6	8.3	7.5	7.6	7.9	6.2	5.3	5.1	1.1
Gas	139.6	143.8	136.0	153.8	163.5	166.2	166.4	172.8	187.2	194.5	40.7
Coal	134.7	124.8	121.5	116.1	98.3	78.4	89.7	82.9	68.1	65.0	13.6
Nuclear	81.2	81.9	81.8	82.2	82.2	80.2	78.8	77.6	78.2	78.6	16.4
Hydro	58.8	60.9	64.7	63.3	61.6	62.1	59.6	61.3	56.2	54.7	11.5
Biomass	7.8	8.0	7.9	7.8	7.5	7.1	7.1	6.6	6.2	6.2	1.3
Wind	19.7	23.3	25.7	27.7	29.9	34.2	37.8	42.7	41.7	44.9	9.4
Solar	3.3	4.6	6.5	7.7	9.3	11.4	14.6	18.3	21.4	26.6	5.6
Other renewables	2.6	2.6	2.7	3.6	3.6	2.5	2.6	3.7	2.4	2.3	0.5
Total final consumption, by sector	1,791.8	1,801.0	1,809.7	1,877.2	1,861.1	1,701.5	1,778.8	1,842.1	1,827.7	1,823.0	100.0
Industry	358.8	366.2	365.5	379.1	367.9	364.2	367.0	380.5	376.2	376.5	20.7
Transport	695.1	703.5	707.3	717.5	714.7	603.1	659.3	682.6	688.0	684.4	37.5
Residential/Commercial	545.5	536.0	534.6	572.6	570.6	544.4	549.5	568.5	551.5	551.0	30.2
Oil final consumption, by sector	893.9	899.9	900.5	914.4	907.2	794.7	853.8	882.9	886.4	878.3	100.0
Industry	29.3	31.0	29.1	28.2	26.8	27.3	29.5	30.9	30.1	30.0	3.4
Transport	660.9	666.4	670.2	680.8	677.8	570.1	621.8	642.3	643.1	636.8	72.5
Residential/Commercial	37.3	36.5	34.3	34.4	33.5	31.8	31.5	32.7	33.5	32.7	3.7
Natural gas final consumption, by sector	379.7	381.6	391.7	421.9	421.3	390.0	398.4	414.5	397.5	391.9	100.0
Industry	148.6	154.7	154.2	160.5	160.3	160.7	159.6	163.7	163.0	162.1	41.4
Transport	1.0	1.1	1.3	1.3	1.4	1.3	1.4	1.6	1.6	1.4	0.3
Residential/Commercial	208.7	201.2	206.1	230.4	230.5	212.8	215.5	227.5	211.2	206.8	52.8
Refined products consumption	889.7	897.0	896.2	908.7	907.2	794.7	853.8	882.9	886.4	878.3	100.0
Gasoline	440.3	448.2	444.7	446.0	445.0	379.7	411.0	421.9	426.8	425.7	48.5
Diesel	225.2	221.3	225.0	231.4	225.9	203.2	215.0	219.8	210.3	201.7	23.0
Heating Oil	4.9	4.0	3.7	3.3	2.5	2.3	4.6	5.2	4.2	4.2	0.5
Aviation Jet	55.2	57.2	60.4	61.6	62.5	38.5	48.8	56.0	59.9	61.5	7.0
LPG	50.1	49.0	46.7	50.0	51.2	50.7	52.1	54.4	53.7	51.3	5.8
Imports	680.5	733.1	741.1	738.4	696.0	610.1	644.0	637.0	648.2	649.8	100.0
Oil	570.8	609.2	613.7	608.0	569.7	492.1	515.5	508.6	519.2	514.5	79.2
Gas	109.6	123.9	127.4	130.3	126.3	117.9	128.6	128.3	128.9	135.3	20.8
Gasoline	54.0	59.6	57.2	62.3	69.6	52.5	65.0	58.0	61.3	56.4	8.7
Diesel	20.5	19.9	22.7	26.4	24.7	22.8	25.8	23.6	22.9	18.9	2.9
Heating Oil	13.2	13.8	14.3	15.0	12.4	12.4	10.9	11.7	6.5	6.5	1.0
Aviation Jet	11.0	12.1	12.9	12.4	14.6	10.2	11.3	10.8	11.7	10.9	1.7
LPG	8.1	10.1	11.8	11.5	13.1	13.6	15.0	13.4	12.3	12.2	1.9
Exports	576.3	624.8	705.4	785.7	856.5	854.1	900.0	952.0	1,005.8	1,038.2	100.0
Oil	469.9	501.0	559.2	633.7	682.6	669.9	673.2	719.4	759.4	784.9	75.6
Gas	106.4	123.7	146.2	152.0	173.9	184.2	226.8	232.7	246.4	253.4	24.4
Gasoline	35.3	42.3	46.0	49.6	48.7	42.5	48.0	48.6	46.8	45.9	4.4
Diesel	65.7	66.3	76.8	70.9	73.9	68.5	62.0	68.4	64.3	74.7	7.2
Heating Oil	27.3	25.4	25.3	28.1	18.0	14.6	15.2	16.0	16.8	19.7	1.9
Aviation Jet	8.8	9.2	10.4	12.3	12.3	5.4	6.3	9.3	9.1	11.0	1.1
LPG	24.1	30.5	35.0	38.7	45.8	54.1	58.3	62.3	70.0	77.6	7.5
CO₂ Emissions (Million tons CO₂)	5,949.5	5,852.6	5,776.6	5,905.7	5,743.0	5,142.1	5,455.0	5,563.1	5,410.2	5,381.5	-
CO₂ Intensity (tCO₂/million \$15ppp)	280.0	270.5	261.7	261.1	249.7	231.6	231.1	228.1	215.8	209.2	-
Final energy intensity (toe/million \$15ppp)	80.7	79.7	78.2	78.9	76.5	72.1	71.1	71.7	69.2	67.3	-
Total energy intensity (toe/million \$15ppp)	119.2	116.6	113.8	113.7	111.3	106.0	104.6	103.6	100.4	98.5	-

*Heat is included

Primary energy demand mix



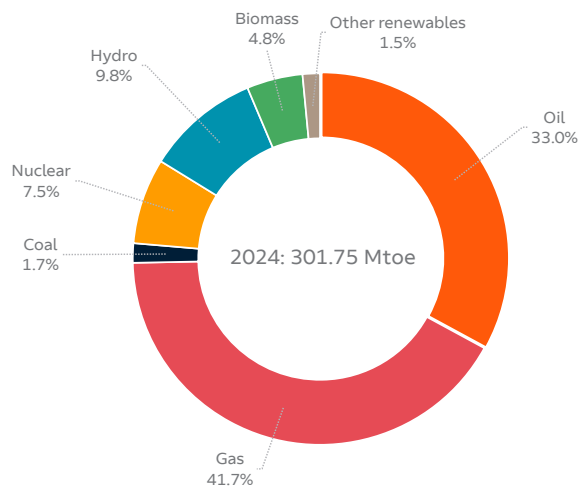
Electricity generation by source

Primary energy demand and CO₂ emissions growth

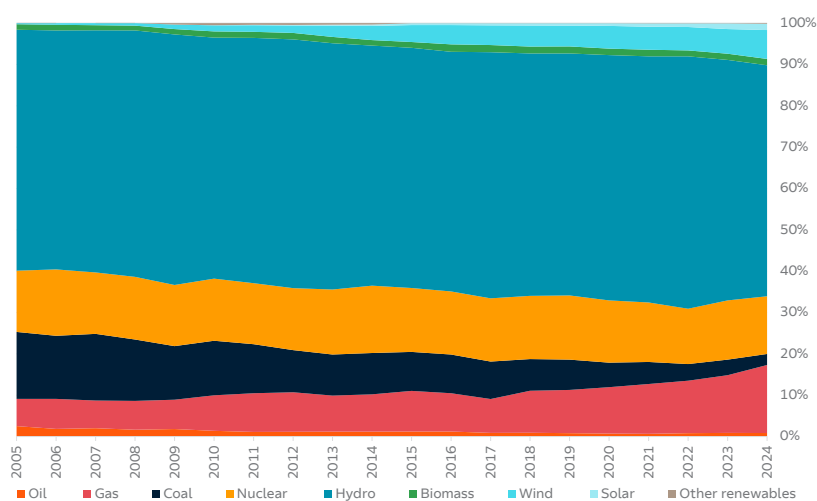
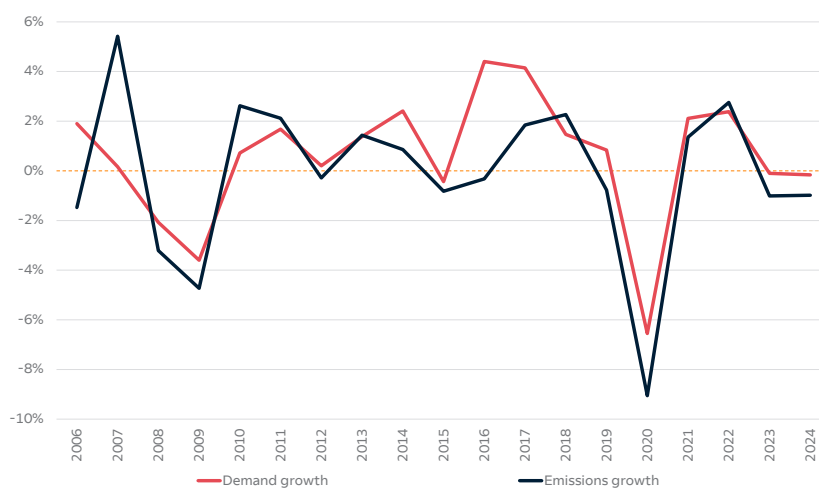
Canada (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	278.4	290.6	302.7	307.1	309.7	289.4	295.5	302.5	302.2	301.7	100.0
Oil	105.5	99.4	101.4	103.5	108.0	97.8	99.0	102.9	103.4	99.8	33.1
Gas	84.6	103.6	111.3	116.8	117.6	112.4	115.8	122.8	121.3	126.3	41.8
Coal	18.3	17.4	18.0	14.4	12.4	9.9	11.5	7.8	7.0	5.1	1.7
Nuclear	26.5	26.4	26.4	26.3	26.4	25.6	24.1	22.7	23.4	22.6	7.5
Hydro	32.9	33.1	33.9	33.2	32.8	33.2	33.0	34.2	31.3	29.8	9.9
Biomass	13.0	13.2	14.0	13.8	13.3	12.0	12.5	12.8	14.2	14.6	4.8
Other renewables	2.6	2.9	3.0	3.2	3.1	3.4	3.5	3.7	3.9	4.5	1.5
Electricity balance of trade*	-5.1	-5.4	-5.3	-4.1	-4.0	-4.9	-4.0	-4.3	-2.2	-0.9	-0.3
Total final consumption, by source	189.7	190.7	194.8	199.5	198.5	181.7	186.3	192.2	192.7	190.8	100.0
Oil	88.8	89.9	89.4	91.1	91.4	78.8	82.7	85.3	86.5	84.6	44.3
Gas	44.4	45.4	47.2	49.3	48.6	46.7	46.2	48.2	46.5	45.4	23.8
Coal	2.7	2.6	2.8	2.7	2.6	2.2	2.2	2.1	1.9	1.9	1.0
Electricity	42.6	42.2	43.8	44.8	44.9	44.0	44.6	45.5	45.2	46.0	24.1
Heat	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.3
Biomass	10.5	10.0	10.9	10.9	10.5	9.4	10.0	10.5	11.8	12.4	6.5
Electricity generation, by source	56.6	57.2	57.0	56.6	56.1	56.0	55.4	56.0	53.8	53.3	100.0
Oil	0.7	0.7	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.8
Gas	5.6	5.3	4.7	5.8	5.9	6.3	6.7	7.1	7.5	8.8	16.5
Coal	5.3	5.3	5.2	4.3	4.1	3.3	3.0	2.3	2.0	1.4	2.7
Nuclear	8.8	8.7	8.7	8.7	8.7	8.4	8.0	7.5	7.7	7.5	14.0
Hydro	32.9	33.2	33.9	33.2	32.8	33.2	33.0	34.2	31.3	29.8	55.9
Biomass	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	1.5
Wind	2.3	2.7	2.7	2.9	2.8	3.1	3.1	3.2	3.2	3.7	7.0
Solar	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.7	0.8	1.5
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Total final consumption, by sector	189.7	190.7	194.8	199.5	198.5	181.7	186.3	192.2	192.7	190.8	100.0
Industry	42.9	44.4	45.8	46.2	46.1	42.5	44.4	45.7	45.8	45.2	23.7
Transport	56.9	56.6	58.6	60.4	59.4	49.8	52.4	54.7	56.3	55.4	29.0
Residential/Commercial	58.4	56.9	59.8	62.6	62.0	59.9	58.4	60.3	58.4	58.2	30.5
Oil final consumption, by sector	88.8	89.9	89.4	91.1	91.4	78.8	82.7	85.3	86.5	84.6	100.0
Industry	4.0	4.2	4.7	4.6	4.9	4.0	4.2	4.2	3.9	3.8	4.5
Transport	54.8	54.5	56.2	58.0	57.1	47.7	50.0	52.0	52.8	51.1	60.4
Residential/Commercial	3.4	3.3	3.0	2.9	3.0	2.6	2.5	2.7	2.8	2.7	3.2
Natural gas final consumption, by sector	44.4	45.4	47.2	49.3	48.6	46.7	46.2	48.2	46.5	45.4	100.0
Industry	14.5	16.4	15.8	16.0	16.1	15.2	15.8	16.5	16.9	16.5	36.3
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	25.7	24.9	27.1	29.4	28.8	27.5	26.1	27.6	25.6	24.9	54.8
Refined products consumption	88.8	89.9	89.4	91.1	91.4	78.8	82.7	85.3	86.5	84.6	100.0
Gasoline	34.4	35.6	35.6	36.8	36.6	30.8	31.9	32.4	33.0	31.5	37.2
Diesel	26.8	25.4	27.5	28.1	27.0	23.8	24.9	25.6	25.5	25.0	29.5
Heating Oil	1.5	1.4	1.2	1.2	1.3	1.0	1.1	1.0	0.7	0.5	0.6
Aviation Jet	2.5	2.4	2.6	2.8	2.8	1.5	1.8	2.5	2.8	3.0	3.6
LPG	4.2	4.5	4.6	4.6	5.3	5.2	5.5	6.4	6.8	6.4	7.6
Imports	79.9	83.9	78.0	76.5	82.5	71.4	66.9	67.0	66.9	64.9	100.0
Oil	63.4	65.1	56.7	57.0	60.6	51.4	46.1	45.5	45.6	44.1	67.9
Gas	16.6	18.8	21.3	19.6	21.9	20.0	20.8	21.5	21.3	20.8	32.1
Gasoline	3.0	4.0	3.7	4.2	6.7	4.3	5.4	5.2	5.0	4.2	6.4
Diesel	1.9	2.1	1.1	2.2	1.2	0.8	1.1	0.9	0.8	0.7	1.1
Heating Oil	0.6	0.7	0.8	0.6	0.8	0.5	0.4	0.4	0.3	0.3	0.4
Aviation Jet	3.0	2.8	2.5	3.1	3.4	1.2	1.0	2.0	2.3	2.3	3.5
LPG	0.1	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	250.5	263.2	274.3	285.6	294.7	278.8	296.8	304.6	306.4	324.1	100.0
Oil	184.9	192.2	202.6	218.4	230.4	218.9	229.5	232.4	236.9	249.9	77.1
Gas	65.7	71.0	71.8	67.2	64.3	59.9	67.3	72.2	69.6	74.2	22.9
Gasoline	7.5	7.7	8.6	6.9	8.0	6.8	6.9	5.6	5.8	5.8	1.8
Diesel	6.9	6.8	8.2	6.5	7.8	7.6	7.6	7.9	8.2	9.4	2.9
Heating Oil	3.0	2.9	2.8	3.6	1.8	0.8	1.3	1.1	1.3	1.6	0.5
Aviation Jet	0.5	0.5	1.2	1.2	1.1	0.4	0.4	0.4	0.4	0.4	0.1
LPG	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	544.5	542.8	552.8	565.3	561.0	510.2	517.1	531.3	526.0	520.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	341.4	336.8	332.9	331.4	322.7	309.0	297.5	294.4	287.9	280.7	-
Final energy intensity (toe/million \$15ppp)	103.7	102.6	103.5	103.8	100.8	96.6	93.6	93.2	92.0	89.6	-
Total energy intensity (toe/million \$15ppp)	174.5	180.3	182.3	180.0	178.1	175.3	170.0	167.7	165.4	162.7	-

*Heat is included

Primary energy demand mix



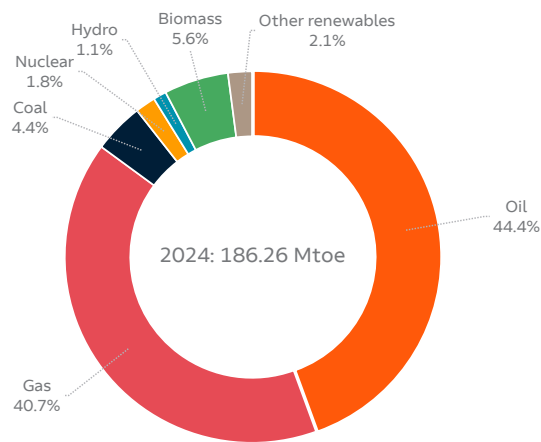
Electricity generation by source

Primary energy demand and CO₂ emissions growth

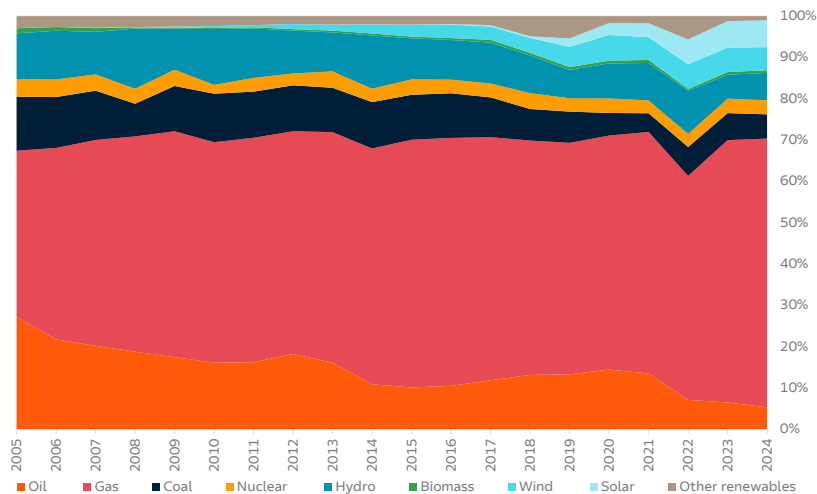
Mexico (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	186.2	186.0	181.8	186.6	185.4	173.2	180.0	184.2	187.0	186.3	100.0
Oil	89.6	87.1	85.1	79.1	82.2	71.5	77.1	80.4	79.8	81.3	43.6
Gas	65.2	66.4	62.6	72.5	68.9	70.6	72.7	70.1	75.4	74.4	39.9
Coal	11.5	12.4	12.8	12.4	12.0	9.0	7.8	9.4	8.7	8.0	4.3
Nuclear	3.0	2.8	2.8	3.6	2.9	2.9	3.1	2.8	3.2	3.2	1.7
Hydro	2.7	2.6	2.8	2.8	2.0	2.3	3.0	3.1	1.8	2.1	1.1
Biomass	10.2	10.3	11.4	10.9	11.1	11.2	10.8	10.9	10.4	10.2	5.5
Other renewables	0.8	0.9	1.0	1.2	2.1	2.5	2.9	3.5	3.8	3.8	2.0
Electricity balance of trade*	3.4	3.4	3.3	4.1	4.2	3.2	2.7	4.0	3.9	3.4	1.8
Total final consumption, by source	119.3	121.3	122.5	117.7	117.2	102.5	99.0	109.0	107.1	108.1	100.0
Oil	71.8	74.3	72.0	68.0	69.1	55.5	54.6	63.3	60.4	61.3	56.7
Gas	13.9	14.3	15.1	12.2	12.3	10.5	9.1	9.3	9.6	9.6	8.9
Coal	4.0	1.9	3.6	2.6	2.6	2.6	1.3	1.7	1.8	1.7	1.5
Electricity	22.1	23.3	23.4	25.8	24.1	25.8	25.4	25.8	26.7	27.1	25.1
Heat	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3
Biomass	7.3	7.3	8.2	8.7	8.8	7.8	8.2	8.5	8.3	8.0	7.4
Electricity generation, by source	26.7	27.6	27.8	30.8	29.7	27.3	32.8	29.6	30.7	31.2	100.0
Oil	2.7	2.9	3.3	4.1	4.0	4.0	4.5	2.1	2.0	1.7	5.4
Gas	16.0	16.5	16.3	17.4	16.6	15.5	19.2	16.0	19.5	20.3	65.0
Coal	2.9	3.0	2.7	2.3	2.2	1.5	1.5	2.1	2.0	1.8	5.9
Nuclear	1.0	0.9	0.9	1.2	1.0	1.0	1.0	0.9	1.1	1.1	3.4
Hydro	2.7	2.6	2.8	2.8	2.0	2.3	3.0	3.1	1.8	2.1	6.6
Biomass	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.6
Wind	0.8	0.9	0.9	1.1	1.5	1.7	1.8	1.8	1.8	1.7	5.6
Solar	0.0	0.0	0.1	0.1	0.6	0.8	1.1	1.8	2.0	2.0	6.5
Other renewables	0.5	0.5	0.6	1.5	1.6	0.5	0.6	1.7	0.4	0.3	1.0
Total final consumption, by sector	119.3	121.3	122.5	117.7	117.2	102.5	99.0	109.0	107.1	108.1	100.0
Industry	37.7	37.6	40.5	36.6	36.2	36.0	33.2	34.3	35.6	35.7	33.1
Transport	50.4	52.2	50.7	49.4	50.3	36.1	35.5	43.8	42.0	42.7	39.5
Residential/Commercial	22.0	21.9	21.8	22.7	22.2	22.9	23.2	23.0	22.0	21.8	20.2
Oil final consumption, by sector	71.8	74.3	72.0	68.0	69.1	55.5	54.6	63.3	60.4	61.3	100.0
Industry	6.2	7.0	6.3	4.3	5.3	5.3	5.3	5.3	5.3	5.3	8.7
Transport	50.3	52.1	50.6	49.3	50.2	35.9	35.4	43.7	41.8	42.6	69.4
Residential/Commercial	7.4	7.2	7.1	6.9	6.7	8.3	8.2	7.9	7.2	7.1	11.6
Natural gas final consumption, by sector	13.9	14.3	15.1	12.2	12.3	10.5	9.1	9.3	9.6	9.6	100.0
Industry	12.4	12.8	13.7	11.0	11.1	9.4	8.1	8.3	8.5	8.5	88.8
Transport	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Residential/Commercial	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	8.8
Refined products consumption	71.8	74.3	72.0	68.0	69.1	55.5	54.6	63.3	60.4	61.3	100.0
Gasoline	34.8	36.1	35.0	34.3	35.1	26.0	26.1	33.9	32.6	33.4	54.4
Diesel	19.0	19.6	18.6	17.9	17.6	11.4	10.5	12.2	11.4	11.5	18.8
Heating Oil	0.5	0.8	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	9.6	9.7	9.7	9.4	8.8	11.2	11.0	10.7	9.8	9.8	15.9
Imports	64.7	77.9	86.2	97.5	94.1	82.7	87.8	85.6	88.8	87.5	100.0
Oil	34.5	42.3	50.5	53.5	53.1	43.8	47.3	49.1	49.2	46.1	52.7
Gas	30.2	35.6	35.7	44.0	41.0	38.9	40.5	36.5	39.6	41.4	47.3
Gasoline	18.2	21.6	22.8	25.2	25.3	20.3	21.7	22.2	21.6	21.0	24.0
Diesel	7.4	9.4	12.9	14.0	12.4	9.5	9.8	12.7	13.2	10.6	12.1
Heating Oil	0.9	1.4	2.2	1.8	2.3	0.5	0.0	0.0	0.0	0.0	0.0
Aviation Jet	1.1	1.6	2.1	2.7	2.8	1.3	2.2	2.7	2.8	2.9	3.4
LPG	3.8	5.0	6.1	5.3	6.7	8.7	9.6	7.8	6.7	6.9	7.9
Exports	70.8	73.8	71.7	72.1	66.5	68.0	64.3	61.8	65.2	55.0	100.0
Oil	70.8	73.8	71.7	72.1	66.5	68.0	64.3	61.8	65.2	55.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.3	0.8	0.2	0.2	0.6	0.8	0.3	0.9	0.8	0.8	1.4
Heating Oil	6.8	6.2	5.7	5.3	3.8	6.0	8.6	9.5	9.3	11.2	20.3
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	438.1	441.9	442.9	415.1	429.2	365.9	374.6	379.0	389.5	393.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	189.7	188.0	185.0	170.0	176.5	164.2	158.5	154.6	154.0	153.5	-
Final energy intensity (toe/million \$15ppp)	49.4	49.3	49.0	46.3	46.5	44.1	40.2	43.0	41.0	40.7	-
Total energy intensity (toe/million \$15ppp)	80.6	79.1	75.9	76.4	76.2	77.7	76.2	75.2	73.9	72.6	-

*Heat is included

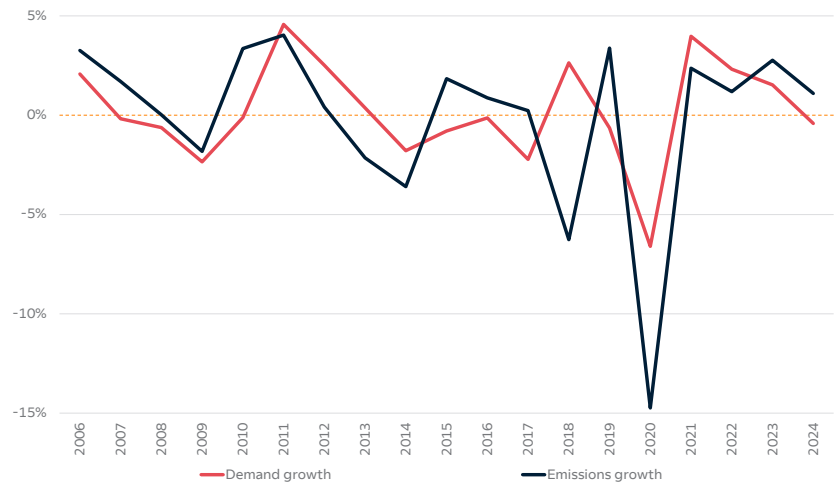
Primary energy demand mix



Electricity generation by source



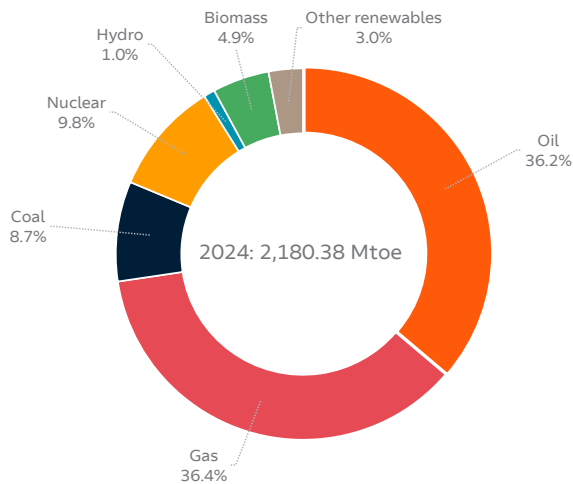
Primary energy demand and CO₂ emissions growth



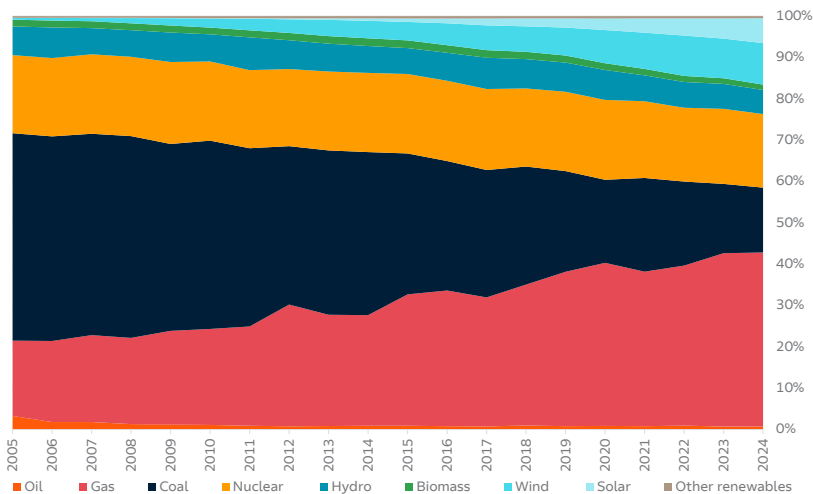
United States (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	2,180.8	2,157.8	2,149.3	2,213.1	2,213.3	2,039.8	2,141.6	2,176.8	2,162.4	2,180.4	100.0
Oil	782.6	778.2	784.9	800.8	795.4	704.6	766.7	761.6	775.0	782.2	35.9
Gas	647.6	654.0	645.2	695.3	743.4	720.2	724.2	772.4	770.3	785.9	36.0
Coal	375.9	343.0	331.8	319.4	274.1	222.0	252.0	238.1	202.0	187.7	8.6
Nuclear	216.4	218.9	218.6	219.3	219.8	214.5	211.5	209.4	210.3	212.3	9.7
Hydro	21.6	23.2	26.0	25.4	24.9	24.7	21.8	22.1	21.2	21.0	1.0
Biomass	99.2	98.7	97.9	104.7	105.7	97.3	102.9	102.4	105.3	106.0	4.9
Other renewables	20.1	24.5	28.6	31.5	34.4	40.0	46.3	54.2	55.9	63.8	2.9
Electricity balance of trade*	17.5	17.3	16.4	16.8	15.6	16.6	16.2	16.6	22.4	21.5	1.0
Total final consumption, by source	1,482.8	1,489.0	1,492.4	1,560.0	1,545.4	1,417.3	1,493.5	1,540.9	1,527.9	1,524.0	100.0
Oil	733.3	735.8	739.1	755.3	746.8	660.4	716.6	734.3	739.5	732.3	48.1
Gas	321.4	322.0	329.4	360.3	360.4	332.8	343.1	357.1	341.4	336.9	22.1
Coal	19.1	17.8	17.1	16.6	15.3	12.9	13.6	13.1	11.1	10.1	0.7
Electricity	325.2	328.0	323.0	335.5	329.4	324.9	330.1	344.5	340.1	348.2	22.8
Heat	8.0	8.9	8.0	9.8	9.1	9.0	8.9	9.0	9.2	9.6	0.6
Biomass	75.7	76.5	75.8	82.6	84.6	77.2	81.3	83.0	86.5	86.9	5.7
Electricity generation, by source	371.3	371.7	368.6	383.2	377.7	366.4	376.2	386.6	382.2	393.4	100.0
Oil	3.3	3.0	2.8	3.7	3.1	3.2	3.1	3.7	2.8	3.0	0.8
Gas	118.0	122.0	115.0	130.7	141.0	144.5	140.5	149.7	160.2	165.5	42.1
Coal	126.5	116.4	113.6	109.4	92.0	73.6	85.3	78.5	64.0	61.8	15.7
Nuclear	71.4	72.2	72.1	72.4	72.5	70.8	69.8	69.1	69.4	70.1	17.8
Hydro	23.3	25.1	28.0	27.3	26.7	26.5	23.6	24.0	23.1	22.9	5.8
Biomass	6.9	6.8	6.8	6.7	6.3	6.1	6.0	5.7	5.2	5.2	1.3
Wind	16.6	19.7	22.1	23.7	25.6	29.4	32.9	37.8	36.6	39.4	10.0
Solar	3.1	4.3	6.1	7.3	8.4	10.3	13.0	16.1	18.7	23.8	6.0
Other renewables	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	0.5
Total final consumption, by sector	1,482.8	1,489.0	1,492.4	1,560.0	1,545.4	1,417.3	1,493.5	1,540.9	1,527.9	1,524.0	100.0
Industry	278.3	284.2	279.2	296.4	285.6	285.6	289.4	300.5	294.8	295.5	19.4
Transport	587.9	594.6	598.0	607.7	604.9	517.2	571.4	584.1	589.8	586.2	38.5
Residential/Commercial	463.1	454.8	450.7	486.8	485.5	462.2	471.9	488.7	471.0	470.9	30.9
Oil final consumption, by sector	733.3	735.8	739.1	755.3	746.8	660.4	716.6	734.3	739.5	732.3	100.0
Industry	19.1	19.8	18.0	19.3	16.7	18.0	20.0	21.4	20.9	20.9	2.8
Transport	555.8	559.8	563.4	573.5	570.5	486.5	536.4	546.7	548.4	543.1	74.2
Residential/Commercial	26.2	25.8	23.9	24.3	23.7	22.6	23.6	24.3	23.6	22.9	3.1
Natural gas final consumption, by sector	321.4	322.0	329.4	360.3	360.4	332.8	343.1	357.1	341.4	336.9	100.0
Industry	121.7	125.6	124.6	133.4	133.1	136.1	135.6	138.9	137.6	137.1	40.7
Transport	0.9	1.0	1.1	1.2	1.2	1.2	1.3	1.5	1.5	1.3	0.4
Residential/Commercial	181.9	175.2	178.0	200.0	200.8	184.5	188.5	199.1	184.8	181.0	53.7
Refined products consumption	729.2	732.9	734.8	749.6	746.8	660.4	716.6	734.3	739.5	732.3	100.0
Gasoline	371.2	376.5	374.1	374.9	373.3	322.9	353.0	355.5	361.2	360.9	49.3
Diesel	179.4	176.4	178.9	185.4	181.2	168.0	179.6	182.0	173.5	165.2	22.6
Heating Oil	2.9	1.8	1.8	1.9	0.9	1.1	3.3	3.9	3.3	3.5	0.5
Aviation Jet	52.8	54.8	57.9	58.8	59.8	37.0	47.0	53.5	57.1	58.5	8.0
LPG	36.3	34.8	32.4	35.9	37.1	34.3	35.5	37.3	37.1	35.1	4.8
Imports	535.9	571.4	576.8	564.3	519.4	455.9	489.4	484.4	492.5	497.4	100.0
Oil	473.0	501.8	506.4	497.6	456.0	396.9	422.1	414.1	424.4	424.3	85.3
Gas	62.9	69.5	70.4	66.8	63.4	59.0	67.3	70.3	68.1	73.1	14.7
Gasoline	32.7	34.0	30.8	32.8	37.7	27.9	37.9	30.6	34.6	31.3	6.3
Diesel	11.2	8.4	8.8	10.1	11.1	12.5	14.9	9.9	8.9	7.6	1.5
Heating Oil	11.7	11.6	11.3	12.6	9.4	11.4	10.6	11.4	6.2	6.2	1.2
Aviation Jet	6.9	7.6	8.3	6.7	8.4	7.7	8.2	6.2	6.6	5.6	1.1
LPG	4.2	4.8	5.4	5.9	6.4	5.0	5.4	5.6	5.6	5.3	1.1
Exports	255.0	287.7	359.4	428.0	495.3	507.2	538.9	585.7	634.2	659.1	100.0
Oil	214.3	235.0	284.9	343.3	385.7	383.0	379.4	425.2	457.4	480.0	72.8
Gas	40.7	52.7	74.4	84.8	109.6	124.3	159.5	160.5	176.8	179.2	27.2
Gasoline	27.8	34.7	37.4	42.7	40.7	35.7	41.1	43.0	41.1	40.1	6.1
Diesel	58.5	58.7	68.5	64.2	65.5	60.1	54.2	59.7	55.3	64.5	9.8
Heating Oil	17.5	16.3	16.8	19.2	12.4	7.8	5.3	5.4	6.2	7.0	1.1
Aviation Jet	8.3	8.7	9.2	11.1	11.2	5.0	5.9	9.0	8.7	10.6	1.6
LPG	23.7	30.2	34.6	38.5	45.7	54.1	58.3	62.3	70.0	77.6	11.8
CO₂ Emissions (Million tons CO₂)	4,944.3	4,846.5	4,761.1	4,910.4	4,746.3	4,262.6	4,550.7	4,610.6	4,439.1	4,415.6	-
CO₂ Intensity (tCO₂/million \$15ppp)	270.3	260.2	249.5	249.9	235.4	216.1	217.6	215.0	201.2	194.7	-
Final energy intensity (toe/million \$15ppp)	73.8	72.7	70.7	71.8	69.3	65.2	64.6	65.0	62.4	60.5	-
Total energy intensity (toe/million \$15ppp)	119.2	115.8	112.6	112.6	109.8	103.4	102.4	101.5	98.0	96.1	-

*Heat is included

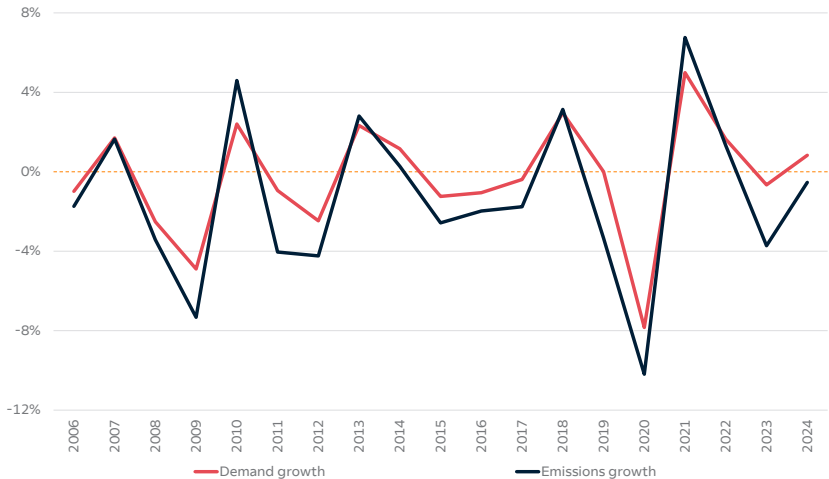
Primary energy demand mix



Electricity generation by source



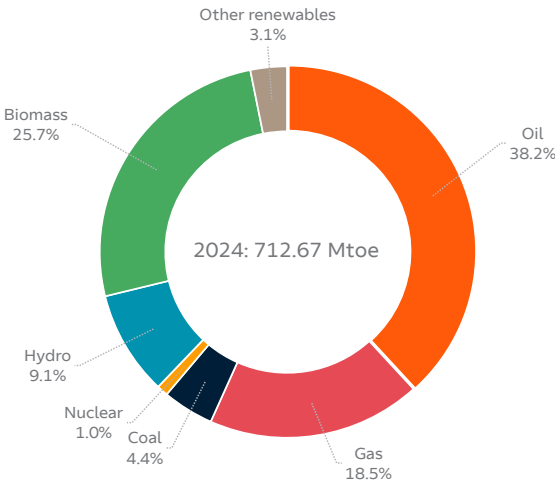
Primary energy demand and CO₂ emissions growth



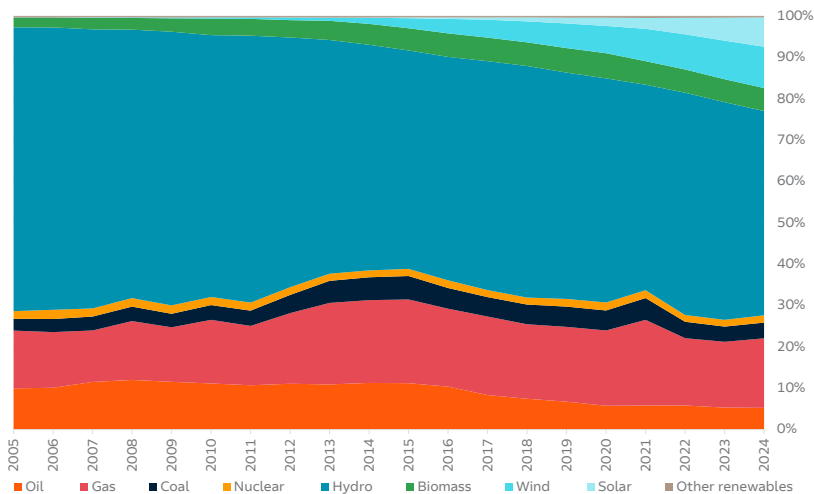
South and Central America (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	683.0	671.2	670.9	657.7	668.6	626.0	677.1	673.2	693.0	712.7	100.0
Oil	285.1	274.8	271.9	257.1	261.8	232.6	257.9	265.1	268.8	268.1	37.6
Gas	140.1	135.9	135.6	132.7	131.4	117.6	137.9	127.8	127.7	129.7	18.2
Coal	36.6	35.1	34.0	33.3	36.3	32.9	37.0	31.5	30.2	31.1	4.4
Nuclear	5.7	6.3	5.7	5.8	6.3	6.5	6.7	5.9	6.1	6.8	1.0
Hydro	57.8	59.4	61.1	62.4	61.5	60.0	57.7	63.8	65.1	63.8	9.0
Biomass	151.3	151.8	153.6	156.1	159.0	162.5	162.0	158.3	170.6	180.2	25.3
Other renewables	2.9	4.2	5.4	6.7	8.3	9.5	12.3	15.7	18.4	22.1	3.1
Electricity balance of trade*	3.5	3.6	3.5	3.7	4.1	4.6	5.6	5.0	6.1	10.9	1.5
Total final consumption, by source	496.4	491.0	494.3	487.9	489.2	457.3	486.3	503.3	521.3	525.2	100.0
Oil	229.4	226.3	226.3	219.1	221.6	196.3	211.8	222.1	229.6	227.9	43.4
Gas	58.8	56.6	56.1	56.0	54.8	45.6	52.1	57.7	56.3	53.9	10.3
Coal	11.1	10.0	11.8	12.2	10.9	10.0	11.7	12.6	11.8	11.9	2.3
Electricity	88.0	88.4	88.7	90.0	90.6	89.7	93.9	96.4	100.2	104.3	19.9
Heat	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.1	1.2	1.3	0.2
Biomass	109.0	109.7	111.3	110.5	111.2	115.6	115.8	113.4	122.3	126.0	24.0
Electricity generation, by source	109.4	110.1	110.4	111.5	112.4	110.7	116.3	118.8	123.7	129.2	100.0
Oil	12.3	11.4	9.2	8.3	7.6	6.4	6.8	6.9	6.6	6.8	5.2
Gas	22.2	20.8	21.0	20.1	20.3	20.2	24.1	19.4	19.7	21.8	16.8
Coal	6.2	5.5	5.2	5.3	5.5	5.4	6.1	4.7	4.6	4.9	3.8
Nuclear	1.9	2.1	1.9	1.9	2.1	2.1	2.2	1.9	2.0	2.3	1.7
Hydro	57.8	59.5	61.1	62.4	61.5	60.0	57.8	63.9	65.1	63.9	49.4
Biomass	5.9	6.3	6.3	6.4	6.7	6.8	6.6	6.7	6.9	7.2	5.5
Wind	2.7	3.9	4.8	5.6	6.7	7.3	9.1	10.1	11.5	12.9	10.0
Solar	0.2	0.4	0.6	1.1	1.6	2.2	3.1	4.7	6.9	9.2	7.1
Other renewables	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.3
Total final consumption, by sector	496.4	491.0	494.3	487.9	489.2	457.3	486.3	503.3	521.3	525.2	100.0
Industry	152.8	152.8	153.8	149.2	146.8	144.5	150.5	155.6	162.1	162.6	31.0
Transport	178.5	174.4	175.5	174.0	176.4	153.1	168.9	175.9	182.8	185.2	35.3
Residential/Commercial	108.8	109.3	108.8	112.6	111.3	111.5	120.5	122.6	122.5	125.3	23.9
Oil final consumption, by sector	229.4	226.3	226.3	219.1	221.6	196.3	211.8	222.1	229.6	227.9	100.0
Industry	25.8	25.9	24.6	24.4	25.7	22.7	22.9	22.6	23.5	23.0	10.1
Transport	152.0	149.7	150.5	146.2	146.2	126.5	139.7	148.1	153.2	152.5	66.9
Residential/Commercial	16.8	17.0	17.3	17.6	17.2	18.8	21.0	20.7	18.8	19.0	8.3
Natural gas final consumption, by sector	58.8	56.6	56.1	56.0	54.8	45.6	52.1	57.7	56.3	53.9	100.0
Industry	28.0	26.5	25.9	26.0	24.5	19.9	22.0	27.1	26.5	25.9	48.1
Transport	5.6	5.4	5.3	5.3	5.4	4.2	5.6	5.6	5.6	5.0	9.2
Residential/Commercial	13.8	13.9	13.5	13.0	12.5	12.1	14.0	14.3	14.1	14.2	26.4
Refined products consumption	229.4	226.3	226.3	219.1	221.5	196.3	211.7	222.1	229.6	227.9	100.0
Gasoline	66.2	67.4	68.0	63.9	63.0	51.2	58.7	63.9	68.0	66.9	29.4
Diesel	100.1	95.8	95.3	96.6	97.8	91.1	96.3	99.1	99.6	100.1	43.9
Heating Oil	8.1	8.2	8.0	7.1	7.0	6.6	6.8	5.9	7.0	5.8	2.5
Aviation Jet	5.8	5.2	5.5	5.6	5.6	3.0	3.9	5.4	5.8	5.8	2.5
LPG	20.8	21.3	21.1	20.0	19.9	19.4	20.7	21.0	21.1	21.3	9.4
Imports	178.6	172.0	173.0	166.6	159.9	134.3	160.6	167.7	164.4	159.6	100.0
Oil	150.1	149.3	150.7	146.0	140.6	114.8	131.2	148.5	146.4	140.4	88.0
Gas	28.5	22.7	22.3	20.6	19.3	19.5	29.3	19.2	18.0	19.2	12.0
Gasoline	15.2	17.6	19.6	18.6	20.9	18.6	21.2	24.4	23.9	21.7	13.6
Diesel	37.0	41.2	42.7	42.1	43.1	38.8	45.0	50.2	45.9	41.5	26.0
Heating Oil	12.6	13.2	9.2	9.0	9.7	8.0	7.9	7.7	10.7	0.4	0.3
Aviation Jet	5.3	4.8	5.5	5.6	5.9	2.8	3.6	5.3	4.9	5.5	3.4
LPG	6.6	7.1	7.9	8.5	8.8	8.8	9.6	9.8	9.4	9.9	6.2
Exports	295.2	281.6	272.2	256.4	227.6	218.4	200.7	225.8	245.9	250.4	100.0
Oil	261.1	250.1	241.2	225.2	197.9	191.3	177.9	202.0	224.8	229.9	91.8
Gas	34.1	31.5	31.0	31.2	29.7	27.1	22.9	23.8	21.1	20.6	8.2
Gasoline	8.1	7.9	6.5	6.0	4.6	4.9	4.1	3.2	3.7	5.1	2.0
Diesel	4.0	4.8	4.1	4.5	2.8	3.4	3.1	6.5	6.7	5.5	2.2
Heating Oil	24.0	23.4	22.2	22.4	15.6	17.6	16.1	21.2	21.8	19.7	7.9
Aviation Jet	4.5	3.0	2.6	1.8	1.2	0.5	0.3	0.6	0.8	0.8	0.3
LPG	2.5	2.2	2.1	2.7	2.7	2.3	2.2	2.4	2.6	2.4	1.0
CO₂ Emissions (Million tons CO₂)	1,212.1	1,166.1	1,144.7	1,113.8	1,106.7	987.3	1,100.2	1,062.7	1,054.9	1,056.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	192.4	189.7	184.2	178.0	177.2	171.1	177.8	169.4	167.1	162.8	-
Final energy intensity (toe/million \$15ppp)	68.3	68.9	68.8	67.5	67.8	68.1	67.4	67.0	68.1	67.0	-
Total energy intensity (toe/million \$15ppp)	94.0	94.3	93.4	91.0	92.7	93.2	93.9	89.6	90.6	90.2	-

*Heat is included

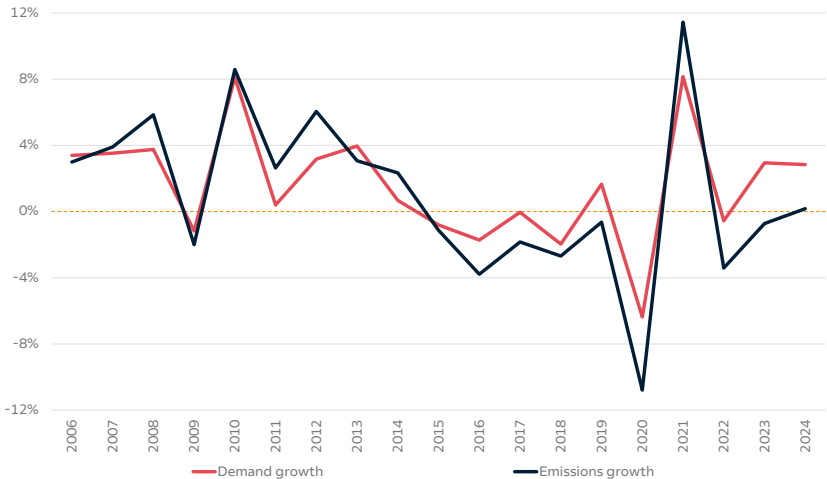
Primary energy demand mix



Electricity generation by source



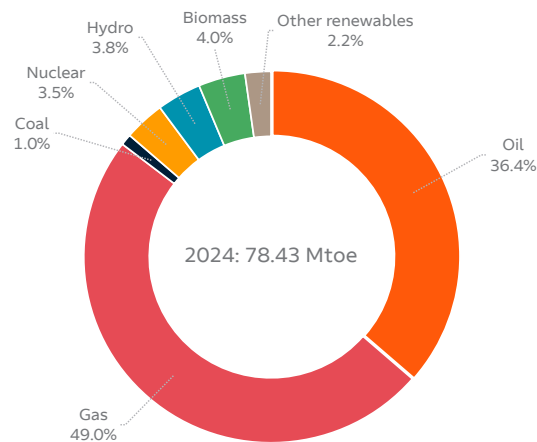
Primary energy demand and CO₂ emissions growth



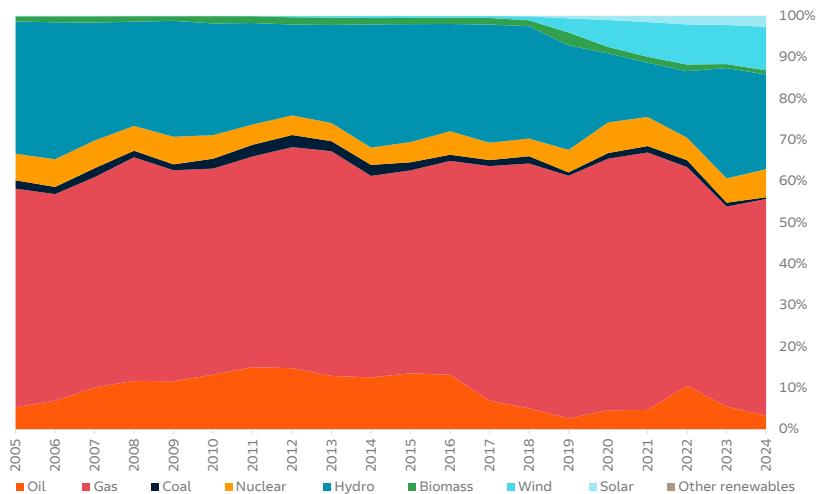
Argentina (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	82.0	82.1	81.0	79.1	79.2	72.9	80.8	80.3	79.7	78.4	100.0
Oil	30.3	29.4	28.2	26.4	26.6	23.8	30.1	30.2	28.8	28.2	36.0
Gas	40.9	42.1	42.1	42.0	41.8	38.9	40.7	39.2	38.2	38.0	48.5
Coal	1.5	1.1	1.1	1.2	0.5	0.9	1.2	1.3	1.0	0.8	1.0
Nuclear	1.9	2.2	1.6	1.7	2.1	2.8	2.8	2.1	2.3	2.7	3.5
Hydro	3.5	3.2	3.5	3.5	3.1	2.1	1.7	2.0	3.5	3.0	3.8
Biomass	3.0	3.0	3.4	3.3	3.6	3.2	2.8	3.1	3.1	3.1	4.0
Other renewables	0.1	0.0	0.1	0.1	0.5	0.9	1.3	1.5	1.5	1.7	2.2
Electricity balance of trade*	0.9	0.9	0.9	0.8	0.9	0.4	0.2	1.1	1.3	0.9	1.2
Total final consumption, by source	56.9	56.5	56.7	54.6	54.1	50.7	53.9	53.2	53.9	53.2	100.0
Oil	23.4	23.3	24.0	22.8	22.7	21.7	22.5	22.7	23.4	22.9	43.0
Gas	19.9	19.4	18.6	17.7	17.6	16.0	18.2	17.9	17.8	17.7	33.3
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Electricity	11.1	11.1	11.1	11.1	10.8	10.7	11.1	10.7	10.7	10.6	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	2.5	2.6	2.9	3.0	2.9	2.3	2.0	1.9	1.9	1.9	3.6
Electricity generation, by source	12.5	12.6	12.5	13.1	12.6	12.5	13.2	12.6	13.1	13.2	100.0
Oil	1.7	1.7	0.9	0.7	0.3	0.6	0.6	1.3	0.7	0.4	3.4
Gas	6.1	6.5	7.1	7.8	7.4	7.6	8.2	6.7	6.4	6.9	52.4
Coal	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.5
Nuclear	0.6	0.7	0.5	0.6	0.7	0.9	0.9	0.7	0.8	0.9	6.8
Hydro	3.6	3.3	3.6	3.6	3.2	2.1	1.7	2.0	3.5	3.0	22.9
Biomass	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.1	0.1	1.0
Wind	0.1	0.0	0.1	0.1	0.4	0.8	1.1	1.2	1.2	1.4	10.5
Solar	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	2.6
Other renewables	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0
Total final consumption, by sector	56.9	56.5	56.7	54.6	54.1	50.7	53.9	53.2	53.9	53.2	100.0
Industry	13.2	12.5	12.3	12.4	12.7	12.2	12.0	11.5	11.5	11.2	21.1
Transport	18.2	18.2	19.1	17.9	17.7	15.7	16.0	16.8	17.8	17.3	32.5
Residential/Commercial	18.5	18.8	18.0	17.3	16.7	16.4	19.0	18.3	18.1	18.4	34.5
Oil final consumption, by sector	23.4	23.3	24.0	22.8	22.7	21.7	22.5	22.7	23.4	22.9	100.0
Industry	0.8	0.8	0.7	0.6	0.7	0.6	0.7	0.4	0.4	0.4	1.8
Transport	14.6	14.7	15.5	14.6	14.4	13.2	13.2	14.0	14.9	14.4	63.0
Residential/Commercial	1.8	1.7	1.6	1.6	1.6	1.4	1.8	1.8	1.8	1.8	8.0
Natural gas final consumption, by sector	19.9	19.4	18.6	17.7	17.6	16.0	18.2	17.9	17.8	17.7	100.0
Industry	7.1	6.6	6.3	6.3	6.6	6.5	6.3	6.8	6.9	6.7	37.9
Transport	2.2	2.1	1.9	1.7	1.7	1.3	2.1	1.8	1.9	1.7	9.9
Residential/Commercial	9.8	10.0	9.3	8.7	8.3	8.2	9.8	9.4	9.0	9.2	52.3
Refined products consumption	23.4	23.3	24.0	22.8	22.7	21.7	22.5	22.7	23.4	22.9	100.0
Gasoline	6.5	6.7	7.3	6.6	6.4	5.3	6.0	6.5	7.9	7.7	33.4
Diesel	11.4	11.2	11.7	11.3	11.3	10.9	10.4	11.0	10.0	9.6	42.1
Heating Oil	0.4	0.2	0.1	0.2	0.4	0.8	1.1	0.1	0.1	0.2	0.9
Aviation Jet	0.5	0.5	0.6	0.5	0.5	0.2	0.2	0.4	0.5	0.6	2.5
LPG	1.9	1.9	1.8	1.7	1.7	1.4	1.8	1.9	2.0	2.0	8.9
Imports	13.1	13.2	13.5	11.4	7.9	6.9	11.7	10.8	6.4	3.3	100.0
Oil	4.4	4.9	4.9	4.4	3.0	1.7	4.3	6.2	2.7	1.1	34.0
Gas	8.7	8.3	8.6	7.0	4.9	5.2	7.4	4.6	3.7	2.2	66.0
Gasoline	0.0	0.2	0.3	0.5	0.4	0.1	0.4	0.9	0.8	0.2	6.7
Diesel	3.3	3.6	3.1	2.7	2.0	1.4	3.3	4.2	1.4	0.8	23.5
Heating Oil	0.0	0.0	0.0	0.2	0.2	0.0	0.3	0.8	0.4	0.0	1.2
Aviation Jet	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	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
Exports	4.0	4.6	3.8	6.4	6.8	7.1	6.3	11.1	10.8	13.6	100.0
Oil	3.9	4.6	3.7	6.0	6.6	6.9	5.5	9.3	9.2	11.9	87.3
Gas	0.1	0.0	0.1	0.3	0.2	0.1	0.8	1.8	1.6	1.7	12.7
Gasoline	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	1.9
Heating Oil	0.0	0.0	0.4	0.6	0.8	0.5	0.1	0.8	0.3	0.3	2.1
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5
LPG	0.9	1.0	1.0	1.2	1.3	1.1	1.0	1.2	1.3	1.2	9.1
CO₂ Emissions (Million tons CO₂)	178.6	177.8	174.4	163.3	155.2	146.5	171.9	163.3	155.6	148.7	-
CO₂ Intensity (tCO₂/million \$15ppp)	206.5	209.8	200.3	192.5	186.7	195.7	207.9	187.5	181.6	176.6	-
Final energy intensity (toe/million \$15ppp)	62.2	63.0	61.3	60.6	61.2	63.7	61.5	58.0	59.6	59.9	-
Total energy intensity (toe/million \$15ppp)	94.8	96.9	93.0	93.2	95.3	97.4	97.7	92.3	93.0	93.1	-

*Heat is included

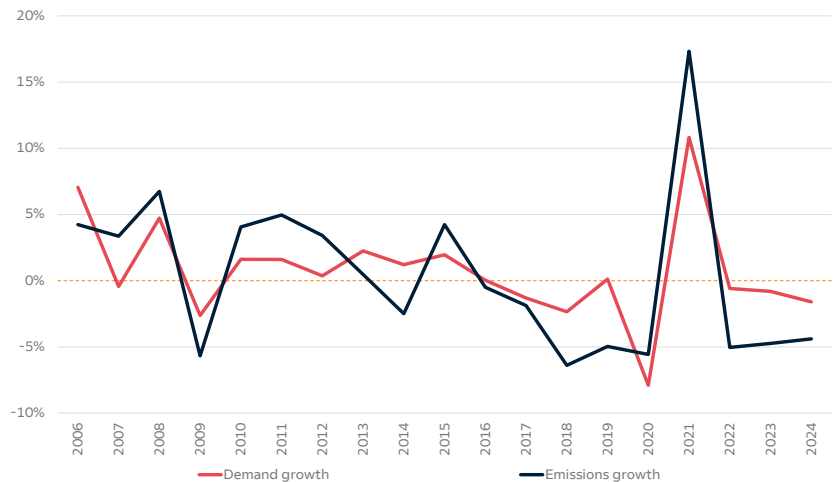
Primary energy demand mix



Electricity generation by source



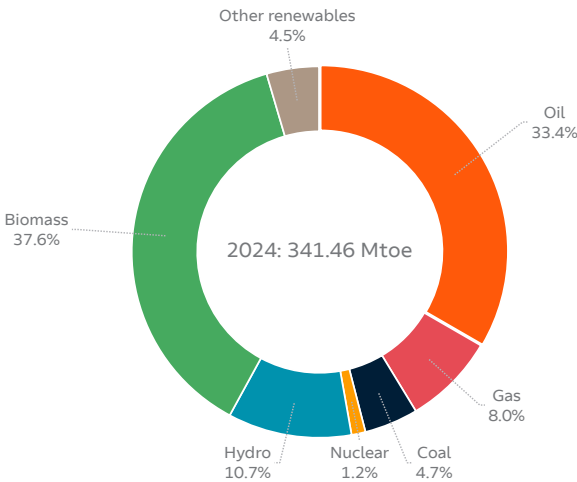
Primary energy demand and CO₂ emissions growth



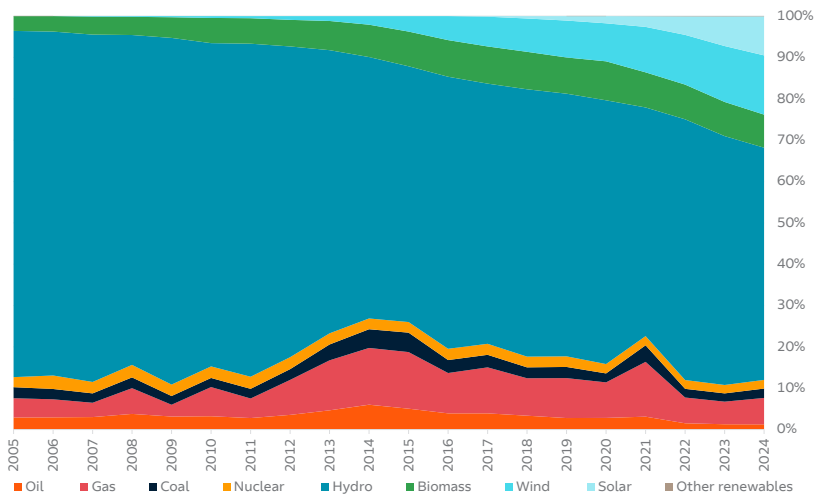
Brazil (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	315.9	304.7	309.2	304.2	309.6	305.3	323.6	316.2	331.1	341.5	100.0
Oil	119.5	112.6	114.4	107.0	108.7	103.7	109.7	111.5	114.3	113.2	33.2
Gas	33.7	28.9	30.3	29.0	28.8	26.5	36.7	28.0	26.2	27.0	7.9
Coal	19.7	17.8	18.3	18.0	17.0	15.5	19.0	15.5	15.3	15.8	4.6
Nuclear	3.8	4.1	4.1	4.1	4.2	3.7	3.8	3.8	3.8	4.1	1.2
Hydro	30.9	32.8	31.9	33.5	34.2	34.1	31.2	36.7	36.6	36.3	10.6
Biomass	103.4	102.2	103.2	105.2	109.0	113.9	112.5	108.9	119.9	127.4	37.3
Other renewables	1.9	2.9	3.7	4.5	5.4	5.8	7.7	9.6	12.6	15.3	4.5
Electricity balance of trade*	3.0	3.5	3.1	3.0	2.1	2.1	3.0	2.2	2.5	2.3	0.7
Total final consumption, by source	241.2	234.9	239.5	233.3	235.2	233.5	246.2	252.1	264.0	269.5	100.0
Oil	108.0	102.7	104.0	98.1	99.6	94.0	99.6	104.7	107.8	106.9	39.7
Gas	12.0	11.6	11.3	11.6	10.6	9.1	11.4	12.7	11.5	11.1	4.1
Coal	7.8	6.8	8.6	8.8	7.8	7.4	8.6	8.9	8.4	8.6	3.2
Electricity	42.4	42.3	42.9	43.6	44.1	43.7	45.7	47.3	49.8	52.7	19.6
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.0	1.1	1.2	0.4
Biomass	71.1	71.5	72.8	71.1	73.2	79.2	79.9	77.4	85.4	89.1	33.0
Electricity generation, by source	50.0	49.8	50.7	51.7	53.9	53.4	56.4	58.3	60.9	64.6	100.0
Oil	2.5	1.9	2.0	1.7	1.5	1.5	1.8	0.9	0.8	0.8	1.2
Gas	6.8	4.9	5.6	4.7	5.2	4.6	7.5	3.6	3.3	4.2	6.4
Coal	2.4	1.6	1.5	1.4	1.4	1.2	2.3	1.2	1.2	1.4	2.2
Nuclear	1.3	1.4	1.4	1.3	1.4	1.2	1.3	1.3	1.2	1.4	2.1
Hydro	30.9	32.8	31.9	33.5	34.2	34.1	31.2	36.7	36.6	36.3	56.2
Biomass	4.2	4.4	4.6	4.7	4.7	5.1	4.8	4.9	5.0	5.2	8.0
Wind	1.9	2.9	3.6	4.2	4.8	4.9	6.2	7.0	8.2	9.3	14.3
Solar	0.0	0.0	0.1	0.3	0.6	0.9	1.4	2.6	4.4	6.1	9.4
Other renewables	-0.0	0.0	-0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1
Total final consumption, by sector	241.2	234.9	239.5	233.3	235.2	233.5	246.2	252.1	264.0	269.5	100.0
Industry	87.0	87.5	88.8	82.7	81.0	86.8	91.7	91.6	96.5	97.7	36.2
Transport	88.6	84.3	84.6	83.9	86.6	81.0	87.4	90.0	93.9	96.4	35.8
Residential/Commercial	38.4	38.1	38.7	40.1	40.7	40.4	41.3	42.7	44.7	46.6	17.3
Oil final consumption, by sector	108.0	102.7	104.0	98.1	99.6	94.0	99.6	104.7	107.8	106.9	100.0
Industry	11.5	10.8	10.6	9.3	9.8	9.2	9.4	9.0	8.6	8.5	7.9
Transport	68.9	66.3	66.3	62.7	63.2	59.8	64.4	68.6	71.1	70.4	65.9
Residential/Commercial	7.0	7.1	7.1	7.0	7.0	7.2	7.2	7.1	7.2	7.4	6.9
Natural gas final consumption, by sector	12.0	11.6	11.3	11.6	10.6	9.1	11.4	12.7	11.5	11.1	100.0
Industry	9.4	9.0	8.5	8.7	7.9	6.8	8.7	9.1	8.5	8.6	77.1
Transport	1.5	1.5	1.6	1.8	1.9	1.6	1.9	2.0	1.7	1.4	13.0
Residential/Commercial	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	5.7
Refined products consumption	108.0	102.7	104.0	98.1	99.6	94.0	99.6	104.7	107.8	106.9	100.0
Gasoline	23.5	24.4	25.1	21.8	21.7	20.3	22.3	24.4	26.1	25.1	23.5
Diesel	48.7	43.9	44.2	43.7	44.5	44.2	46.1	47.9	49.0	49.2	46.0
Heating Oil	2.9	2.8	2.8	2.2	2.2	2.1	2.2	2.3	2.2	2.0	1.8
Aviation Jet	3.8	3.5	3.5	3.6	3.5	2.0	2.6	3.2	3.4	3.4	3.2
LPG	8.0	8.0	8.0	8.0	7.9	8.1	8.2	8.1	8.2	8.3	7.8
Imports	52.5	40.6	45.1	44.2	45.4	39.9	50.2	50.0	47.4	47.9	100.0
Oil	37.2	30.9	36.1	35.3	37.3	31.9	35.4	42.3	41.7	40.8	85.2
Gas	15.3	9.8	8.9	8.8	8.2	8.0	14.8	7.7	5.7	7.1	14.8
Gasoline	2.3	3.0	3.5	2.5	3.8	3.8	2.1	3.2	3.1	2.1	4.4
Diesel	6.1	7.5	11.5	10.3	11.5	10.6	12.3	12.3	12.1	10.9	22.8
Heating Oil	0.3	0.1	0.1	0.3	0.1	0.0	0.6	0.2	3.0	0.1	0.1
Aviation Jet	1.2	0.8	0.5	0.8	0.9	0.3	0.3	1.1	0.8	0.9	2.0
LPG	1.9	2.1	2.0	2.1	2.1	2.2	2.4	2.1	1.8	2.0	4.3
Exports	44.2	49.7	60.0	64.5	72.4	84.9	76.7	83.4	101.3	101.2	100.0
Oil	44.2	49.7	60.0	64.5	72.4	84.9	76.7	83.4	101.3	101.2	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	1.1	1.6	1.8	1.4	0.4	1.1	1.5	1.5
Diesel	0.1	0.4	0.4	0.8	0.0	0.3	0.0	0.1	0.3	0.4	0.4
Heating Oil	4.0	3.3	3.5	4.9	5.6	10.1	9.2	11.9	15.2	13.1	12.9
Aviation Jet	0.1	0.1	0.1	0.4	0.1	0.2	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)	478.9	436.0	440.7	418.9	418.7	395.9	454.6	428.9	430.0	436.1	-
CO₂ Intensity (tCO₂/million \$15ppp)	160.2	150.8	150.5	140.5	138.7	135.6	148.7	136.1	132.6	130.1	-
Final energy intensity (toe/million \$15ppp)	75.8	76.3	76.8	73.7	73.5	76.0	76.4	75.4	76.9	76.1	-
Total energy intensity (toe/million \$15ppp)	105.7	105.4	105.5	102.0	102.6	104.6	105.8	100.4	102.1	101.9	-

*Heat is included

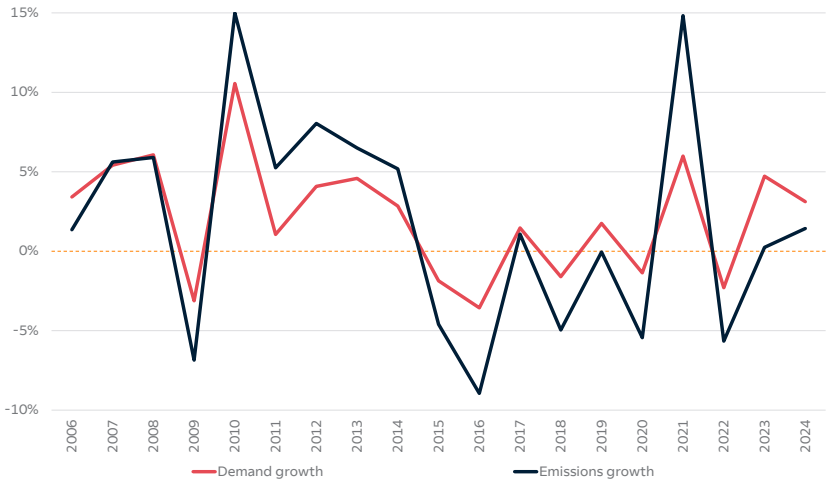
Primary energy demand mix



Electricity generation by source



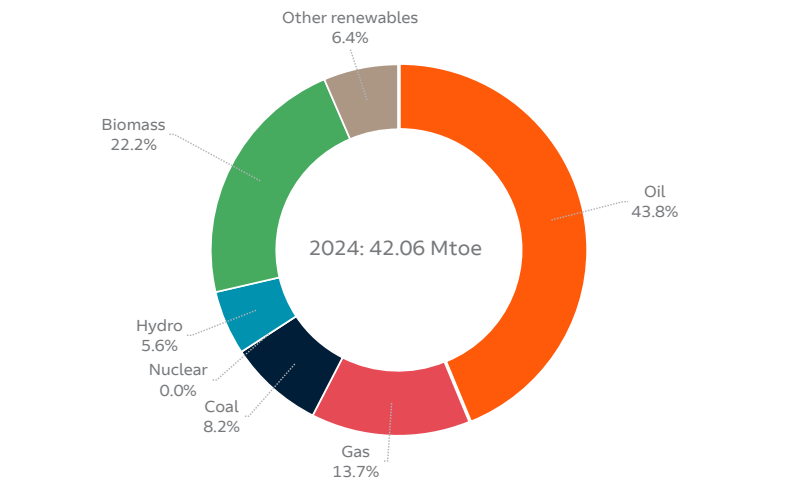
Primary energy demand and CO₂ emissions growth



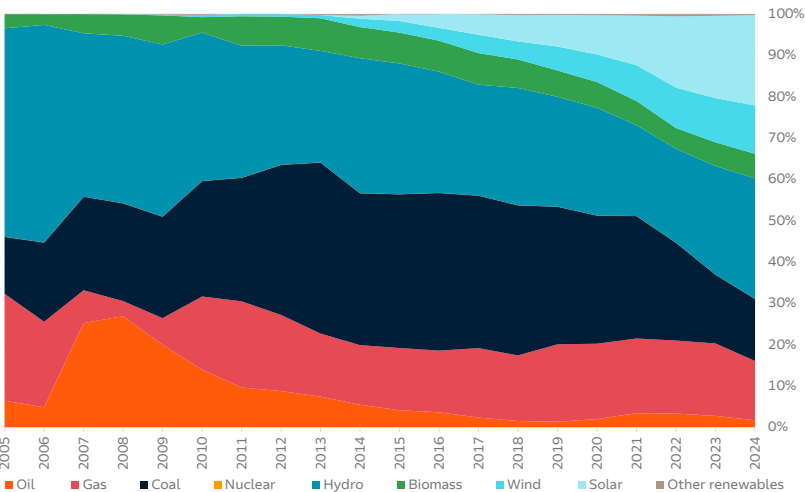
Chile (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	36.4	38.7	39.2	40.0	42.3	38.4	40.9	42.1	40.3	42.1	100.0
Oil	15.1	15.9	15.8	16.1	16.3	15.0	16.1	17.4	17.2	18.3	43.5
Gas	4.0	4.3	4.3	4.4	5.3	4.8	5.3	5.6	5.9	5.7	13.6
Coal	7.3	7.9	8.0	7.9	9.0	7.3	7.6	6.2	3.6	3.4	8.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.0	1.8	2.0	1.9	1.9	1.7	1.8	2.1	2.3	5.6
Biomass	7.7	8.1	8.5	8.6	8.6	8.0	8.3	8.3	8.7	9.3	22.0
Other renewables	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.2	2.4	2.7	6.4
Electricity balance of trade*	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.3	0.7
Total final consumption, by source	25.0	26.5	26.8	28.0	28.2	26.9	27.4	29.8	29.5	29.9	100.0
Oil	13.6	14.6	15.0	15.3	15.1	14.3	15.1	17.1	16.9	17.0	56.9
Gas	1.5	1.7	1.7	2.0	2.4	2.1	2.2	2.1	2.2	2.1	7.1
Coal	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.3
Electricity	5.8	6.0	6.0	6.3	6.4	6.4	6.6	6.8	7.0	7.2	23.9
Heat	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Biomass	3.8	3.9	3.8	4.2	4.1	3.9	3.3	3.4	3.2	3.4	11.5
Electricity generation, by source	6.5	6.8	6.8	7.1	7.3	7.2	7.6	7.8	7.8	8.0	100.0
Oil	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.3	0.2	0.1	1.7
Gas	1.0	1.0	1.1	1.1	1.4	1.3	1.4	1.4	1.4	1.2	14.4
Coal	2.4	2.6	2.5	2.6	2.4	2.2	2.2	1.9	1.3	1.2	15.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.0	1.8	2.0	1.9	1.9	1.7	1.8	2.1	2.3	29.1
Biomass	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	6.0
Wind	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	0.8	0.9	11.7
Solar	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.4	1.6	1.8	21.8
Other renewables	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Total final consumption, by sector	25.0	26.5	26.8	28.0	28.2	26.9	27.4	29.8	29.5	29.9	100.0
Industry	10.5	10.6	10.0	10.5	10.5	10.2	9.8	10.6	10.4	10.6	35.3
Transport	8.4	8.7	9.1	9.4	9.5	8.4	9.2	10.5	10.1	10.1	33.9
Residential/Commercial	5.6	6.3	6.5	6.6	6.6	6.5	6.8	6.9	6.9	7.2	24.0
Oil final consumption, by sector	13.6	14.6	15.0	15.3	15.1	14.3	15.1	17.1	16.9	17.0	100.0
Industry	3.8	3.8	3.5	3.5	3.5	3.5	3.6	3.8	4.0	4.0	23.3
Transport	8.3	8.6	9.0	9.3	9.4	8.3	9.1	10.3	10.0	10.0	58.8
Residential/Commercial	1.2	1.6	1.7	1.8	1.7	1.6	1.8	1.9	1.8	1.9	11.0
Natural gas final consumption, by sector	1.5	1.7	1.7	2.0	2.4	2.1	2.2	2.1	2.2	2.1	100.0
Industry	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	0.9	43.9
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Residential/Commercial	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	31.7
Refined products consumption	13.6	14.6	15.0	15.3	15.1	14.3	15.1	17.1	16.9	17.0	100.0
Gasoline	3.3	3.5	3.5	3.5	3.6	2.9	3.6	4.1	4.1	4.3	25.1
Diesel	7.4	7.9	8.1	8.4	8.4	8.1	8.3	9.0	8.8	8.9	52.1
Heating Oil	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.5	2.7
Aviation Jet	0.6	0.5	0.5	0.6	0.7	0.4	0.4	0.7	0.8	0.6	3.5
LPG	1.1	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.7	1.7	10.3
Imports	19.2	20.5	20.4	20.7	21.5	19.3	21.4	23.4	23.3	23.8	100.0
Oil	16.0	16.8	16.9	17.3	17.4	15.5	17.2	18.8	18.8	19.5	81.7
Gas	3.1	3.7	3.5	3.5	4.0	3.8	4.3	4.6	4.5	4.4	18.3
Gasoline	0.5	0.5	0.6	0.6	0.3	0.4	0.8	1.7	0.9	0.6	2.6
Diesel	5.3	5.7	5.3	5.6	5.6	5.9	6.0	7.4	6.6	6.6	27.6
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Aviation Jet	0.5	0.6	0.7	0.6	0.5	0.2	0.5	0.5	0.5	0.5	2.1
LPG	0.9	1.2	1.2	1.2	1.1	1.2	1.4	1.5	1.4	1.5	6.4
Exports	0.5	0.7	0.7	0.9	0.5	0.6	0.9	1.1	1.6	1.2	100.0
Oil	0.5	0.4	0.5	0.7	0.5	0.6	0.9	1.1	1.6	1.2	100.0
Gas	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.4
Diesel	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.5	0.9	0.6	49.8
Heating Oil	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.3	0.1	0.1	9.5
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.3	0.4	0.4	31.1
CO₂ Emissions (Million tons CO₂)	81.5	86.1	87.6	86.6	92.1	85.0	89.3	89.9	79.7	79.2	-
CO₂ Intensity (tCO₂/million \$15ppp)	201.0	208.7	209.5	199.2	210.5	207.1	195.4	192.6	170.4	165.0	-
Final energy intensity (toe/million \$15ppp)	61.2	62.9	62.8	62.7	62.5	63.0	57.9	61.6	60.5	59.8	-
Total energy intensity (toe/million \$15ppp)	89.9	93.9	93.9	92.1	96.7	93.5	89.5	90.2	86.2	87.6	-

*Heat is included

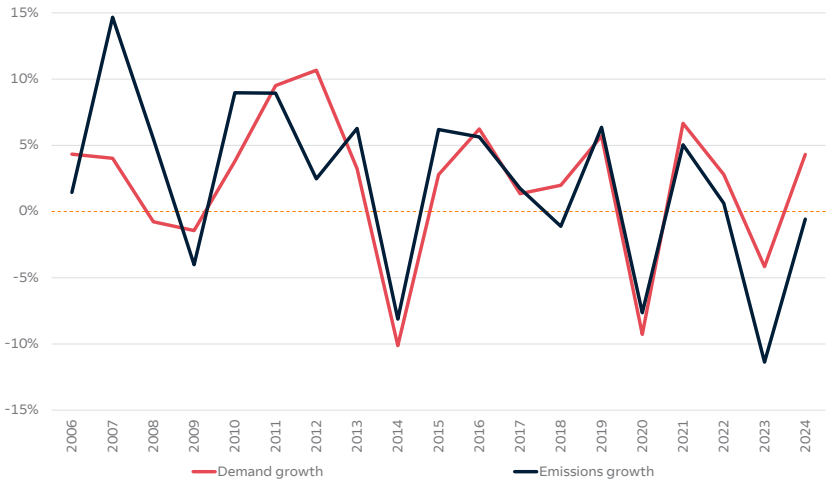
Primary energy demand mix



Electricity generation by source



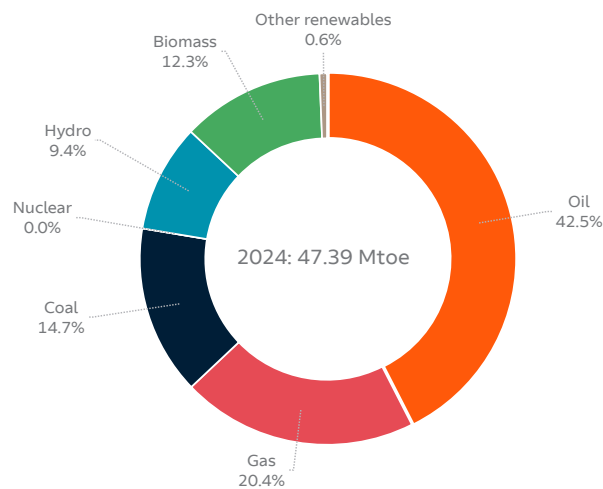
Primary energy demand and CO₂ emissions growth



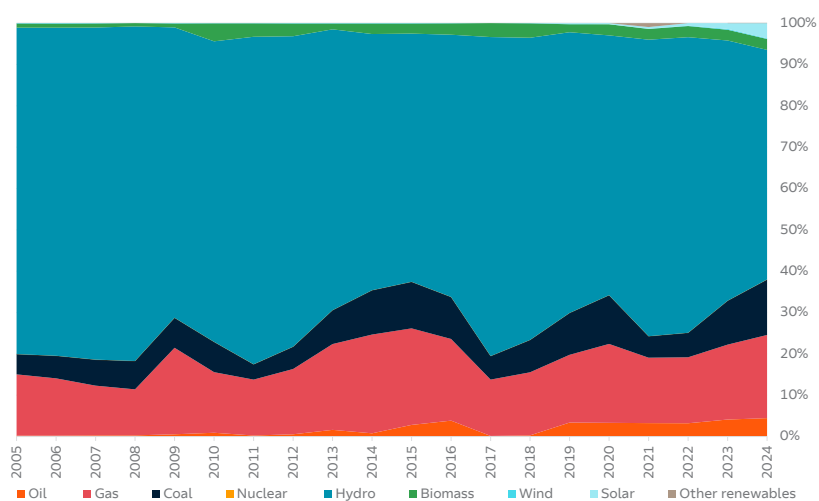
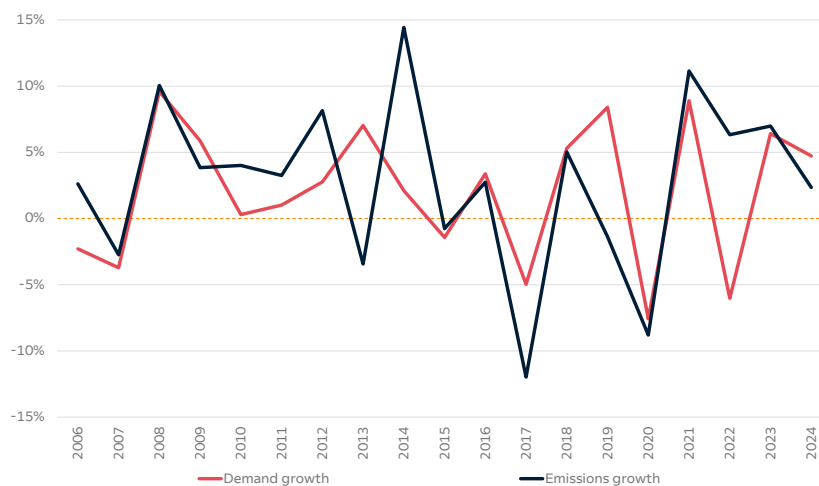
Colombia (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	40.1	41.5	39.4	41.5	45.0	41.6	45.3	42.5	45.3	47.4	100.0
Oil	14.4	16.3	14.9	16.9	17.5	15.6	19.5	17.3	19.1	20.2	42.6
Gas	10.7	10.0	10.0	10.3	10.6	10.5	9.5	9.4	9.1	9.7	20.4
Coal	5.0	5.1	3.7	3.3	6.4	5.4	5.3	4.8	6.3	7.0	14.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.9	4.0	4.9	4.9	4.7	4.3	5.4	5.4	4.9	4.5	9.4
Biomass	6.1	6.0	5.9	6.1	5.8	5.6	5.4	5.7	5.7	5.8	12.3
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.6
Electricity balance of trade*	-0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.0	-0.0	-0.0	-0.1
Total final consumption, by source	31.8	33.3	31.2	32.2	32.1	27.9	32.1	35.1	35.8	35.4	100.0
Oil	14.5	16.1	14.4	14.3	14.0	12.0	14.5	16.0	16.3	15.9	44.8
Gas	4.3	4.3	4.3	4.4	4.8	3.4	3.8	4.2	4.2	4.1	11.5
Coal	2.0	2.0	2.1	2.3	2.1	1.9	2.4	2.9	2.8	2.7	7.7
Electricity	5.2	5.2	5.4	5.4	5.9	5.7	6.1	6.4	6.5	6.7	18.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	5.7	5.5	5.0	5.8	5.3	5.0	5.3	5.6	5.9	6.0	17.1
Electricity generation, by source	6.4	6.4	6.4	6.7	6.9	6.8	7.5	7.5	7.8	8.0	100.0
Oil	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.3	0.4	4.5
Gas	1.5	1.3	0.9	1.0	1.1	1.3	1.2	1.2	1.4	1.6	20.1
Coal	0.7	0.6	0.4	0.5	0.7	0.8	0.4	0.4	0.8	1.1	13.4
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	4.0	4.9	4.9	4.7	4.3	5.4	5.4	4.9	4.5	55.5
Biomass	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	2.7
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	3.6
Other renewables	0.0	-0.0	0.0	-0.0	-0.0	0.0	0.1	0.0	0.0	0.0	0.0
Total final consumption, by sector	31.8	33.3	31.2	32.2	32.1	27.9	32.1	35.1	35.8	35.4	100.0
Industry	8.1	8.1	8.2	9.2	9.3	7.3	8.8	9.8	9.8	9.7	27.3
Transport	12.5	13.1	12.0	12.4	11.2	9.7	12.5	13.2	13.4	13.3	37.5
Residential/Comercial	7.7	7.6	7.6	7.6	7.7	7.8	8.0	8.8	9.0	9.0	25.5
Oil final consumption, by sector	14.5	16.1	14.4	14.3	14.0	12.0	14.5	16.0	16.3	15.9	100.0
Industry	0.5	0.5	0.6	0.7	0.7	0.6	0.7	0.8	0.8	0.8	5.1
Transport	11.2	11.9	10.9	11.2	10.0	8.6	11.2	11.9	12.0	11.8	74.6
Residential/Comercial	0.5	0.5	0.4	0.6	0.5	0.5	0.6	0.9	0.9	0.7	4.7
Natural gas final consumption, by sector	4.3	4.3	4.3	4.4	4.8	3.4	3.8	4.2	4.2	4.1	100.0
Industry	2.1	2.2	2.2	2.3	2.6	1.2	1.5	1.6	1.6	1.5	36.2
Transport	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	10.1
Residential/Comercial	1.4	1.4	1.5	1.6	1.6	1.7	1.7	2.0	2.0	2.0	49.9
Refined products consumption	14.5	16.1	14.4	14.3	14.0	12.0	14.5	16.0	16.3	15.9	100.0
Gasoline	6.0	6.7	5.8	6.0	5.5	4.7	6.2	6.9	6.9	6.5	41.1
Diesel	6.7	6.7	6.0	6.5	5.8	5.2	6.6	6.7	6.8	7.1	45.0
Heating Oil	0.2	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.4
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LPG	0.6	0.7	0.7	0.6	0.7	0.7	0.8	0.9	0.8	0.7	4.2
Imports	5.4	8.0	9.6	6.2	5.6	4.3	6.1	8.2	8.8	10.2	100.0
Oil	5.4	8.0	9.6	6.2	5.4	4.0	6.0	8.1	8.3	8.5	83.4
Gas	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.5	1.7	16.6
Gasoline	0.8	1.8	1.7	1.3	1.1	1.4	2.5	2.1	2.0	2.2	21.1
Diesel	2.1	3.1	1.0	0.6	1.2	1.2	1.2	2.8	1.8	2.1	20.2
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.4	0.2	0.4	3.7
LPG	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.1	0.6
Exports	45.2	38.2	39.4	37.6	35.4	34.8	30.3	29.7	30.1	28.9	100.0
Oil	44.9	38.2	39.4	37.6	35.4	34.8	30.3	29.7	30.1	28.9	100.0
Gas	0.3	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	0.7	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Diesel	0.0	0.7	0.9	1.6	2.1	2.4	1.9	5.0	5.0	4.0	13.7
Heating Oil	2.0	2.3	2.0	1.6	1.6	1.2	1.4	1.4	1.4	1.3	4.6
Aviation Jet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.6
LPG	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	84.1	86.4	76.1	79.9	78.8	71.9	79.9	84.9	90.8	93.0	-
CO₂ Intensity (tCO₂/million \$15ppp)	134.3	135.2	117.4	120.2	114.9	112.9	113.3	112.2	119.3	120.0	-
Final energy intensity (toe/million \$15ppp)	49.0	48.9	45.7	46.8	43.7	41.8	44.2	44.7	45.0	43.9	-
Total energy intensity (toe/million \$15ppp)	64.0	64.8	60.8	62.4	65.6	65.3	64.2	56.2	59.4	61.2	-

*Heat is included

Primary energy demand mix



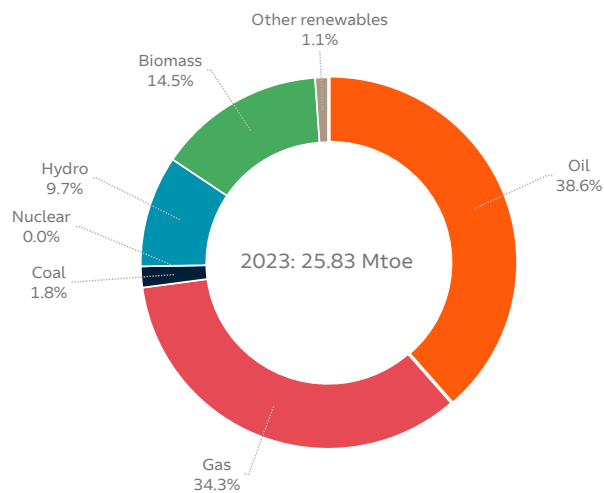
Electricity generation by source

Primary energy demand and CO₂ emissions growth

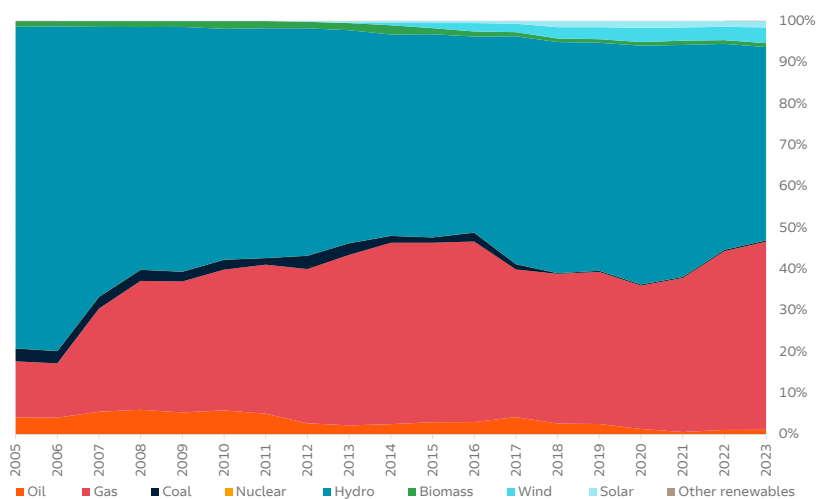
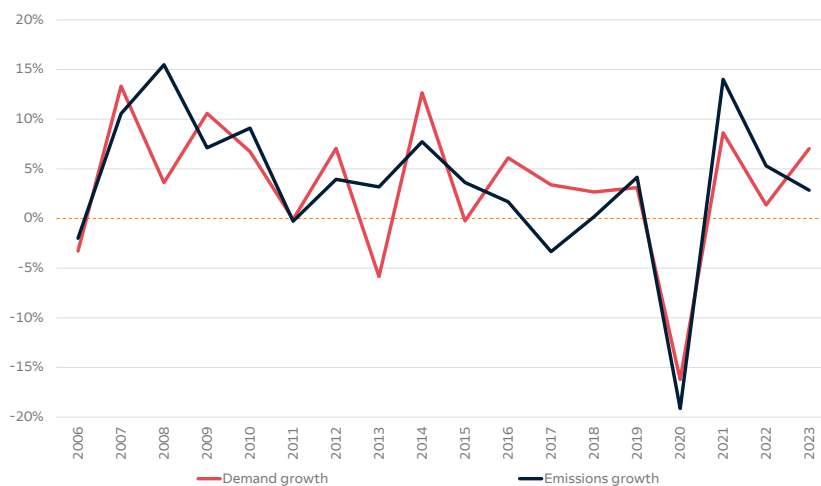
Peru (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2023 (%)
Total primary energy demand, by source	22.5	23.9	24.7	25.4	26.2	21.9	23.8	24.1	25.8	n.d.	100.0
Oil	8.9	9.8	11.6	11.9	12.4	9.6	9.3	9.4	10.0	n.d.	38.5
Gas	7.1	7.5	6.3	6.5	6.9	5.8	7.5	7.7	8.8	n.d.	34.3
Coal	0.8	0.8	0.7	0.6	0.7	0.5	0.5	0.5	0.5	n.d.	1.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	2.0	2.1	2.5	2.6	2.7	2.6	2.7	2.6	2.5	n.d.	9.7
Biomass	3.6	3.6	3.4	3.4	3.3	3.2	3.6	3.6	3.7	n.d.	14.5
Other renewables	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	n.d.	1.1
Electricity balance of trade*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.1
Total final consumption, by source	18.5	18.6	19.0	19.6	20.2	17.1	18.7	18.9	19.6	n.d.	100.0
Oil	9.3	9.2	9.7	9.9	10.2	8.4	9.1	8.9	9.2	n.d.	46.8
Gas	1.7	1.8	1.9	2.1	2.2	1.6	2.0	2.3	2.5	n.d.	13.0
Coal	0.7	0.6	0.5	0.5	0.5	0.3	0.3	0.3	0.3	n.d.	1.5
Electricity	3.6	3.9	4.0	4.2	4.3	3.9	4.3	4.3	4.5	n.d.	23.1
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.2
Biomass	3.0	3.1	2.9	3.0	2.9	2.8	2.9	3.0	3.0	n.d.	15.4
Electricity generation, by source	4.2	4.5	4.5	4.7	4.9	4.5	4.9	5.1	5.4	n.d.	100.0
Oil	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	n.d.	1.2
Gas	1.8	2.0	1.6	1.7	1.8	1.6	1.8	2.2	2.4	n.d.	45.5
Coal	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Hydro	2.0	2.1	2.5	2.6	2.7	2.6	2.7	2.6	2.5	n.d.	46.8
Biomass	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	n.d.	0.9
Wind	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	n.d.	3.8
Solar	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	1.5
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	18.5	18.6	19.0	19.6	20.2	17.1	18.7	18.9	19.6	n.d.	100.0
Industry	5.0	5.4	5.1	5.5	5.7	4.9	5.5	5.8	6.0	n.d.	30.7
Transport	7.8	7.8	8.3	8.4	8.8	6.9	7.5	7.7	7.9	n.d.	40.4
Residential/Commercial	5.1	4.9	5.1	5.2	5.2	4.9	5.3	5.1	5.3	n.d.	27.0
Oil final consumption, by sector	9.3	9.2	9.7	9.9	10.2	8.4	9.1	8.9	9.2	n.d.	100.0
Industry	0.9	0.9	0.9	1.0	1.0	0.9	1.0	0.9	0.9	n.d.	10.2
Transport	6.9	6.9	7.3	7.3	7.8	6.1	6.6	6.6	6.8	n.d.	74.1
Residential/Commercial	1.1	1.0	1.1	1.2	1.1	1.1	1.3	1.2	1.2	n.d.	13.0
Natural gas final consumption, by sector	1.7	1.8	1.9	2.1	2.2	1.6	2.0	2.3	2.5	n.d.	100.0
Industry	1.0	1.1	1.0	1.1	1.2	0.9	1.1	1.1	1.3	n.d.	49.9
Transport	0.6	0.6	0.6	0.6	0.7	0.4	0.6	0.7	0.8	n.d.	31.0
Residential/Commercial	0.2	0.1	0.3	0.3	0.3	0.3	0.4	0.4	0.5	n.d.	18.9
Refined products consumption	9.3	9.2	9.7	9.9	10.2	8.4	9.1	8.9	9.2	n.d.	100.0
Gasoline	1.8	1.7	1.7	1.9	2.0	1.6	1.8	1.6	1.6	n.d.	17.4
Diesel	5.1	5.1	5.1	5.1	5.3	4.5	4.6	4.7	4.8	n.d.	52.8
Heating Oil	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	n.d.	1.1
Aviation Jet	0.1	0.0	0.3	0.4	0.4	0.2	0.3	0.4	0.5	n.d.	5.4
LPG	1.8	1.9	2.0	2.1	2.1	1.9	2.1	1.9	2.0	n.d.	21.6
Imports	8.0	10.1	12.0	11.4	10.6	7.3	8.6	9.2	9.6	n.d.	100.0
Oil	8.0	10.1	12.0	11.4	10.6	7.3	8.6	9.2	9.6	n.d.	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Gasoline	0.6	0.8	0.9	1.0	0.8	1.1	1.5	1.7	1.5	n.d.	16.1
Diesel	2.7	3.5	3.7	3.6	3.6	3.5	3.5	3.8	3.5	n.d.	36.2
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
Aviation Jet	0.4	0.3	0.5	0.4	0.4	0.2	0.3	0.4	0.3	n.d.	3.5
LPG	0.0	0.0	0.2	0.4	0.4	0.4	0.4	0.3	0.2	n.d.	2.4
Exports	8.3	10.3	11.0	9.5	8.7	7.6	8.2	9.0	8.2	n.d.	100.0
Oil	4.0	5.1	6.1	4.9	3.9	2.9	4.1	4.7	4.1	n.d.	49.8
Gas	4.3	5.2	4.9	4.5	4.8	4.7	4.1	4.4	4.1	n.d.	50.2
Gasoline	2.0	2.3	2.4	2.2	1.9	1.6	1.9	2.1	2.0	n.d.	23.9
Diesel	0.2	0.4	0.5	0.5	0.3	0.3	0.4	0.3	0.1	n.d.	1.2
Heating Oil	0.7	1.7	2.3	2.0	1.5	0.3	0.4	0.3	0.7	n.d.	9.0
Aviation Jet	0.6	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
LPG	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	0.0
CO₂ Emissions (Million tons CO₂)	48.5	49.3	47.6	47.7	49.7	40.2	45.8	48.2	49.6	n.d.	-
CO₂ Intensity (tCO₂/million \$15ppp)	137.1	134.2	126.5	121.9	124.2	112.7	113.4	116.2	120.2	n.d.	-
Final energy intensity (toe/million \$15ppp)	51.4	49.9	49.6	49.4	49.8	47.6	45.9	45.2	47.0	n.d.	-
Total energy intensity (toe/million \$15ppp)	63.7	65.1	65.6	64.8	65.3	61.5	58.9	58.1	62.6	n.d.	-

*Heat is included

Primary energy demand mix



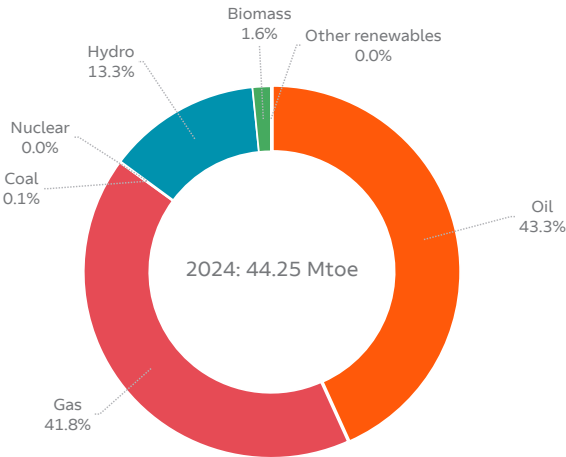
Electricity generation by source

Primary energy demand and CO₂ emissions growth

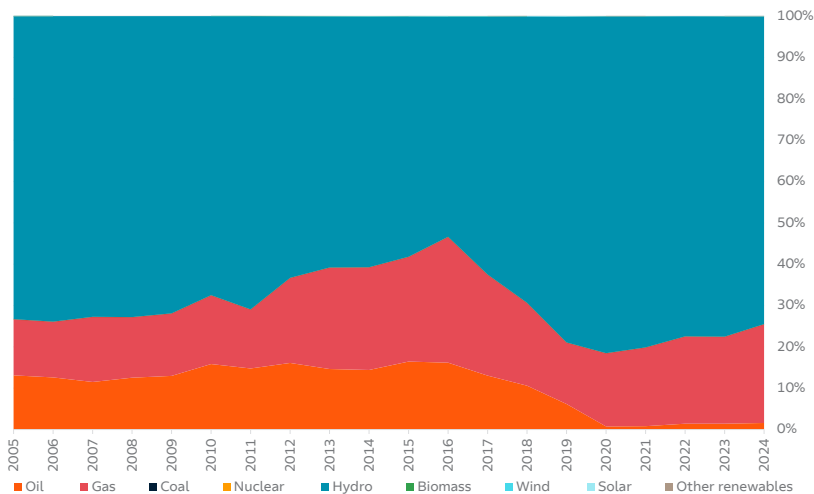
Venezuela (Million toe)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Peso en 2024 (%)
Total primary energy demand, by source	63.0	57.6	54.8	43.9	39.5	31.0	37.0	41.5	42.3	44.2	100.0
Oil	35.0	29.8	26.9	19.1	18.3	13.4	13.9	17.7	18.2	19.1	43.3
Gas	20.3	21.3	20.9	18.2	15.1	11.2	16.6	17.1	17.4	18.5	41.8
Coal	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	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	6.4	5.4	6.0	5.6	5.4	5.8	5.8	5.9	5.9	5.9	13.3
Biomass	1.2	1.0	1.0	0.9	0.6	0.6	0.6	0.7	0.7	0.7	1.6
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity balance of trade*	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by source	34.7	31.5	29.2	26.7	22.8	14.1	13.8	18.5	19.8	20.1	100.0
Oil	19.7	17.6	15.8	13.8	12.8	5.6	5.4	5.8	6.9	7.2	35.7
Gas	6.5	5.9	6.1	5.7	4.3	2.4	2.2	6.2	6.3	6.2	30.7
Coal	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.2
Electricity	7.3	6.9	6.3	6.2	5.0	5.4	5.6	5.8	5.9	6.0	30.0
Heat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Biomass	1.2	1.0	0.9	0.9	0.6	0.6	0.6	0.7	0.7	0.7	3.4
Electricity generation, by source	11.1	10.2	9.7	8.1	6.9	7.1	7.3	7.6	7.7	7.9	100.0
Oil	1.8	1.6	1.3	0.9	0.4	0.1	0.1	0.1	0.1	0.1	1.6
Gas	2.8	3.1	2.4	1.6	1.0	1.3	1.4	1.6	1.6	1.9	23.9
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	6.4	5.4	6.0	5.6	5.4	5.8	5.8	5.9	5.9	5.9	74.5
Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other renewables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total final consumption, by sector	34.7	31.5	29.2	26.7	22.8	14.1	13.8	18.5	19.8	20.1	100.0
Industry	9.2	8.3	8.7	8.3	6.8	4.5	3.6	7.0	7.6	7.2	35.9
Transport	14.8	13.0	11.9	10.7	10.0	3.8	3.9	4.7	5.4	6.0	29.8
Residential/Commercial	8.5	8.0	7.1	7.4	5.8	5.6	6.3	6.6	6.7	6.8	33.9
Oil final consumption, by sector	19.7	17.6	15.8	13.8	12.8	5.6	5.4	5.8	6.9	7.2	100.0
Industry	1.6	1.5	1.5	2.0	2.1	1.3	1.0	0.5	0.9	0.6	8.5
Transport	14.7	12.9	11.9	10.6	9.9	3.7	3.8	4.7	5.4	6.0	83.1
Residential/Commercial	1.1	1.1	1.0	1.0	0.6	0.4	0.5	0.5	0.5	0.5	7.6
Natural gas final consumption, by sector	6.5	5.9	6.1	5.7	4.3	2.4	2.2	6.2	6.3	6.2	100.0
Industry	5.3	4.8	5.1	4.7	3.5	2.0	1.5	5.4	5.5	5.4	87.2
Transport	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Residential/Commercial	1.2	1.0	1.0	0.9	0.8	0.5	0.6	0.8	0.8	0.8	12.8
Refined products consumption	19.7	17.6	15.8	13.8	12.8	5.6	5.4	5.8	6.9	7.2	100.0
Gasoline	11.7	10.3	9.9	8.6	7.8	3.0	2.8	3.9	4.3	4.8	66.7
Diesel	3.4	3.1	2.5	3.1	3.7	1.7	1.7	0.9	1.3	1.4	18.8
Heating Oil	0.9	0.9	0.8	0.8	0.5	0.3	0.3	0.3	0.6	0.3	4.2
Aviation Jet	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	1.2
LPG	2.8	2.8	2.1	1.0	0.6	0.4	0.5	0.5	0.5	0.5	7.5
Imports	8.2	7.2	8.1	9.9	6.8	4.8	3.5	4.9	4.7	3.8	100.0
Oil	7.9	7.2	8.1	9.9	6.8	4.8	3.5	4.9	4.7	3.8	100.0
Gas	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	0.6	1.1	1.4	1.5	1.3	0.9	0.8	0.9	1.1	1.5	39.0
Diesel	1.0	1.3	1.1	2.5	1.3	0.7	0.1	0.0	0.1	0.0	1.2
Heating Oil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aviation Jet	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
LPG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exports	122.3	111.9	96.6	78.9	49.7	29.8	29.7	34.3	34.0	39.0	100.0
Oil	122.3	111.9	96.6	78.9	49.7	29.8	29.7	34.3	34.0	39.0	100.0
Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Heating Oil	10.8	9.0	7.8	7.7	3.3	2.4	1.7	3.8	1.6	1.8	4.7
Aviation Jet	2.2	1.4	0.9	0.6	0.7	0.2	0.2	0.3	0.5	0.5	1.3
LPG	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
CO₂ Emissions (Million tons CO₂)	135.4	124.2	118.0	104.6	83.8	44.4	46.3	59.0	62.2	64.8	-
CO₂ Intensity (tCO₂/million \$15ppp)	234.8	259.8	292.5	322.7	357.3	270.4	279.3	329.8	334.4	330.9	-
Final energy intensity (toe/million \$15ppp)	56.5	61.4	68.8	81.6	96.5	85.0	82.9	102.8	106.2	102.4	-
Total energy intensity (toe/million \$15ppp)	109.3	120.4	135.9	135.4	168.5	188.9	223.3	232.0	227.4	225.8	-

*Heat is included

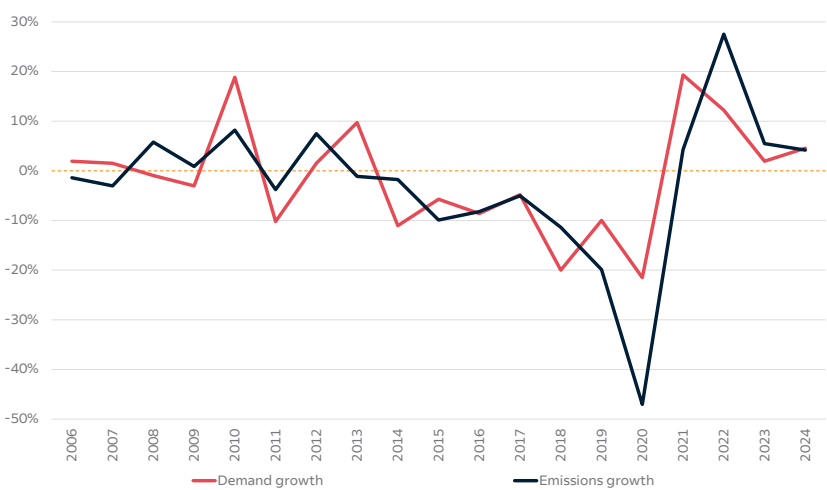
Primary energy demand mix



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 and 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	Terajoules
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
Terajoules	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 12005 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

Contact

For any query related to the content of this document,
please contact Repsol's Economic Research Department:
serviciodeestudiosrepsol@repsol.com

Acknowledgements

DATA COMPILATION, AGGREGATION AND VALIDATION

ENERDATA

www.enerdata.net

EDITING AND PRINTING

Department of Communication of Repsol

DIGITAL VISUALIZATION

Kabel

www.kabel.es

