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Preface

The APEC Energy Statistics 2023 comprises three chapters:

1. Background information on APEC energy statistics
2. Overview of the APEC energy situation
3. Member economy tables

The publication covers the 21 APEC member economies, i.e. Australia; Brunei Darussalam; Canada; Chile; People's Republic of China; Hong Kong, China; Indonesia; Japan; Republic of Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; The Philippines; Russia; Singapore; Chinese Taipei; Thailand; The United States and Viet Nam.

Chapter 1 describes the methodologies used to collect, validate, and harmonize energy data across the region. It also outlines the procedures for generating secondary datasets—including energy balances and related statistical tables—and explains the preparation of socio-economic indicators.

Chapter 2 provides an analytical overview of energy supply and demand in the APEC region. It includes figures and tables illustrating key trends, structural changes, and emerging patterns in regional energy use.

Chapter 3 presents annual statistical tables for each member economy. These include energy balance data for 2022 and 2023, as well as energy price series from 2010 to 2023. The chapter also features major energy indicators—such as total primary energy supply, final energy consumption, and supply and demand by source—alongside essential economic indicators, including population, GDP, balance of payments, foreign exchange rates, purchasing power parity, and price indices. Historical data extend back to 1990, with emphasis on the most recent available figures.

The APEC Energy Statistics 2023 draws on the APEC Energy Database, which aims to provide a comprehensive and consistent statistical foundation for understanding energy developments across the region. The database supports analysis of key trends aligned with APEC Energy Working Group priorities, including energy intensity improvement and doubling the share of renewable energy in total primary energy supply and consumption. Its preparation relies on close collaboration with all member economies.

For inquiries about the data, please contact the EGEDA Secretariat, the Energy Statistics and Training Office (ESTO) of the Asia Pacific Energy Research Centre (APERC).

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1 Background Information on APEC Energy Statistics

Background Information on APEC Energy Statistics

1. Background

Data collection in APEC started in 1991 with the creation of the Expert Group on Energy Data and Analysis (EGEDA) under the Energy Working Group (EWG). This is in consideration of the importance of energy data collection for enhanced energy security and environmental sustainability in the APEC region. The expert group designated the Energy Data and Modeling Centre (EDMC) of the Institute of Energy Economics, Japan (IEEJ) as the coordinating agency with the role of secretariat and implementer of data collection and maintenance of the APEC energy database. These roles were transferred to the Energy Statistics and Training Office (ESTO) of the Asia Pacific Energy Research Centre (APERC) in 2015.

The secretariat compiled energy data from as far back as 1970 from the 21 member economies depending on data availability. The APEC Energy Statistics has been published annually since 1993, and this year's publication is the 31st edition.

This publication consists of energy data submitted by each member economy as well as socio-economic data collected by the secretariat for this APEC activity. The energy balance tables, which give detailed descriptions of all energy products and flows, and other tables (primary energy supply, final energy consumption, etc.) included in the statistics, are secondary data compiled by ESTO.

2. APEC energy data and APEC energy goals

APEC energy data has become essential in tracking the APEC energy intensity reduction and doubling the share of renewable energy goals. The EWG, based

on the suggestions of APERC, approved the use of APEC energy data in tracking these goals.

2.1. Energy intensity reduction goal

In the Honolulu Declaration in 2011, APEC leaders aspired to reduce APEC's aggregate energy intensity by 45 percent by 2035 based on the 2005 levels. APERC has been reporting progress since 2011, but it was only in 2016 that the Energy Working Group (EWG) decided to track the progress using APEC energy data and World Bank's GDP data. The decision was, energy intensity would be measured based on final energy consumption, which excludes non-energy uses, and GDP values at constant purchasing power parities (PPP).

2.2. Doubling the share of renewables in the APEC energy mix, from 2010 levels by 2030

In 2014, during their 11th meeting, the APEC energy ministers set a goal of doubling the share of renewables in the APEC energy mix, including power generation, from 2010 levels by 2030. EGEDA proposed an indicator to track the progress of the doubling goal in October 2017 using APEC energy data. The indicator is the share of renewables in final energy consumption. Traditional biomass uses in the commercial, residential and agriculture sectors are excluded in the calculation of the total renewables share.

3. Energy data

APEC member economies regularly submit energy demand and supply data to the secretariat. These data are called "original data". Details for collection of the data are given below:

3.1. Collection format for original energy data

Most of the items found in the APEC Energy Statistics are based on data submitted by the APEC member economies using a set of questionnaires for oil, coal, natural gas, electricity and heat, as well as new and renewable energy (NRE). These questionnaires were developed in 2005 for the collection of annual data for the year 2004. These are simplified forms of the annual energy questionnaires of the International Energy Agency (IEA) through the harmonisation efforts of the secretariat with IEA. Slight revisions are made to the questionnaires from time to time to catch up with the developments in the energy sector. Tables 1.1a and 1.1b show the energy products and flows to be reported in the questionnaires. The definition of energy products and flows can be found in the Appendices.

Using the reporting format or the APEC annual energy questionnaires, the member economies submitted the following information:

- Supply and demand information for all types of energy products
- Power generating capacity by type of power plants

The data are reported in the following required units:

Coal and solid coal products	1000 Metric tons
Gaseous coal products	10 ¹⁰ kcal (gross)
Oil and oil products	1000 Metric tons
Natural gas	Million cubic meters
LNG	1000 Metric tons
Solid and liquid biofuels	1000 Metric tons
Biogas	10 ¹⁰ kcal (gross)
Electricity	GWh
Heat	10 ¹⁰ kcal (gross)

With regard to calorific values (both gross and net), the required units are the following:

Coal, oil, NRE	kcal/kg
Natural gas	kcal/cubic meter

Power generating capacity data are reported in megawatts (MW).

Table 1.1a • Energy products in the APEC energy database

Coal	Petroleum Products	Hydro
Coking coal	Gasoline	New and renewable energy
Other bituminous coal	Motor gasoline	Geothermal
Sub-bituminous coal	Aviation gasoline	Solar
Anthracite	Naphtha	Tide, wave and ocean
Lignite	Jet fuel	Wind
Coal products	Gasoline type jet fuel	Fuelwood
Coke oven coke	Kerosene type jet fuel	Wood waste
Coke oven gas	Other kerosene	Wood straw
Blast furnace gas	Gas/diesel oil	pellets/briquettes
Other recovered gases	Fuel oil	Bagasse
Patent fuel	LPG	Rise husks
Coal tar	Refinery gas	Straw
BKB/PB	Ethane	Charcoal
Gas works gas	White spirit SBP	Other vegetal and agricultural wastes
Peat	Lubricants	Other primary solid biomass
Peat products	Bitumen	Biogases
Oil shale and tar sands	Paraffin waxes	Industrial wastes
Crude Oil & NGL	Petroleum coke	Municipal solid wastes
Crude oil	Other petroleum products	Black liquor
Natural gas liquids	Gas	Liquid biofuels
Refinery feedstocks	Natural gas	Electricity
Additives / oxygenates	LNG	Heat¹
Other hydrocarbons	Nuclear	

¹ Heat data in China; Japan; and Korea include chilled water from district cooling facilities.

Table 1.1b • Energy flows in the APEC energy database

Indigenous production	Total transformation sector	Total final energy consumption
Imports	Main activity producer	Industry sector
Exports	Electricity plants	Iron and steel
International marine bunkers	CHP plants	Chemical including petrochemicals
International aviation bunkers	Heat plants	Non-ferrous metals
Stock changes	District cooling plants	Non-metallic minerals
Total primary energy supply	Autoproducer	Transportation equipment
Transfers	Electricity plants	Machinery
Recycled products	CHP plants	Mining and quarrying
Inter-product transfers	Heat plants	Food, beverages and tobacco
Products transferred	District cooling plants	Pulp, paper and printing
Gas separation	Gas Processing	Wood and wood products
	Gas works	Construction
	Liquefaction	Textiles and leather
	Re-gasification	Non-specified Industry
	Natural gas blending plants	Transport sector
	Gas-to-liquid plants	Domestic air transport
	Refineries	Road
	Coal transformation	Rail
	Coke ovens	Inland waterways
	Blast furnaces	Pipeline transport
	Patent fuel plants	Non-specified transport
	BKB/PB plants	Other sector
	Liquefaction (coal to oil)	Commerce and public services
	Petrochemical industry	Residential
	Biofuel processing	Agriculture
	Charcoal processing	Fishing
	Non-specified transformation	Non-specified others
	Losses and own use	Non-energy use
	Own use	Transformation sector
	Transmission and distribution losses	Industry sector
		Transport sector
		Other sector

In 2017, ESTO decided to allow member economies to report data in the original units used by the respective economies. Primary and secondary oil products can be reported in litres, barrels and cubic meters or in any other volume or mass units. For example, gaseous products can be reported in joules, BTU, kilocalorie, etc. Calorific values can be reported in joules, BTU, kilocalorie per unit of volume or mass. The purpose of this flexibility is to minimise data errors resulting from conversion of original volume units to mass units. For ESTO to convert the original data to mass units, member economies were also requested to report the densities of each product.

For OECD member economies that also submit annual energy demand and supply data to IEA, ESTO accepts data submission using the IEA format and downloads the revised questionnaires from IEA's Energy Validation Outlet (EVO). Computer programs were developed to transfer data from the IEA format to APEC format and to generate energy balance tables. This reduces the reporting burden of these economies to IEA, APEC and other international energy organisations.

3.2. Collection schedule and actual dates of submission

ESTO set the deadline for submission of 2023 data on 31 March 2025. In principle, all 21 APEC members are expected to submit annual data by this deadline. Two economies were able to submit the five energy questionnaires on time. These were Brunei Darussalam and Chinese Taipei. ESTO does not require OECD member economies to submit on the set deadline in consideration of the fact that these economies are submitting data to IEA to reduce their reporting burden.

Data collection was completed by October 2025 with the submission of Peru's final energy balance data.

3.3. Method of data submission

ESTO developed an online data submission system for all the data collected from member economies. Several economies are now using the system, but some economies still submit the data files as email attachments. Correspondence for the improvement of data such as checking for consistency and accuracy were conducted by email communication.

3.4. Method of estimation

For economies that lack detailed data as well as those that did not submit the questionnaires, ESTO estimated the data, filled out the questionnaires or adopted IEA estimates.

For instance, as Papua New Guinea could not submit its annual energy questionnaires, ESTO estimated its energy data using various references. These are the JODI Oil and JODI Gas data, renewable energy data from the International Renewable Energy Agency (IRENA), electricity data from Papua New Guinea Power Limited (PPL), and the annual report of South Australia Northern Territory Oil Search (SANTOS), formerly Oil Search Limited, an oil company operating in the economy. For 2023, PNG's National Energy Authority was able to obtain petroleum imports data from the Customs Office. From those data and the economic indicators collected from the World Bank and Asian Development Bank (ADB) for the year 2023, ESTO estimated the final energy consumption, autoproducer electricity generation and inputs, as well as imports of petroleum products. ESTO is hoping that Papua New Guinea would be able to produce its own energy statistics and balances in the future.

For Russia, the economy provided the secretariat with its annual energy resource balances from 2005 to 2021. These balances were highly aggregated such that crude oil and natural gas liquids and the different types of primary coal products are aggregated into “dehydrated, desalted and stabilized oil including natural gas condensates” and “hard and brown coal”, respectively. Petroleum products and secondary coal products are aggregated into “fuel processing products” and “combustible secondary energy resources”. For these data to be consistent with energy balances in the previous years, the secretariat used the shares of secondary coal and petroleum products in the energy balances produced by IEA in its disaggregation of the data. In addition, Russia did not submit the 2022 data as well as coal, oil and gas data for 2023. Therefore, the secretariat estimated the energy balance for this year using the JODI Oil, JODI Gas and electricity data submitted by Russia’s Federal State Statistics Service (Rosstat).

For Singapore, while the economy submitted the questionnaires, it was unable to provide a complete set of the energy balance due to data unavailability. Hence, ESTO used IEA’s energy statistics and energy balance as reference to bridge these data gaps.

4. Standardisation

The APEC reporting format used in the collection of 2023 annual data gives member economies the flexibility to report data in the original units that are used in their respective economies. The format also requires the submission of densities of each product to allow conversion of all data to a uniform mass unit. ESTO however, does not standardise the conversion factor from physical to energy units in view of the peculiarities in the thermal quantity of each energy product from the different

economies. In this regard, calorific value data reported by each economy are used as opposed to using typical conversion factors.

4.1. Conversion factors for fossil energy from physical to thermal units

Between two calorific values, namely gross and net calorific values, APEC adopted the net calorific value as agreed from the third experts meeting held in Singapore in 1993. This is to facilitate comparisons with international energy statistics such as those of the IEA and United Nations Statistics Division. Therefore, gross calorific values used by some members must be converted to net calorific values. If only gross calorific values are reported, these are converted to net calorific values:

- Coal/Oil - multiplying the value by 95%
- Gas - multiplying the value by 90%

4.2. Conversion factors for primary electricity

Table 1.2 shows the factors applied to convert primary electricity—power generated from non-fossil fuel sources such as hydro, nuclear, solar, wind, geothermal and other power generation—to primary energy units. To allow comparisons of primary energy supplies, in the light of differences in conversion coefficients, standardisation is required. APEC adopted the following efficiency of primary electricity generation for compatibility with IEA and UN statistics.

Table 1.2 • Efficiency of primary electricity generation

Primary Electricity	Efficiency
Hydro power	100%
Nuclear power	33%
Geothermal power*	10%
Other new power	100%

**Excluding Mexico; New Zealand; and the United States. These economies can provide the primary energy equivalent of geothermal electricity outputs.*

The original energy data contained in these statistics have been processed using the adjustments mentioned above.

4.3. Secondary data

Using the original data submitted by the member economies, the following tables are prepared through the standardisation process.

- (1) Energy balance table
- (2) Primary energy supply table
- (3) Final energy consumption table
- (4) Demand and supply by energy source table
- (5) Electricity table

The energy balance table gives a detailed description of energy sources and their flows.

APEC Energy Statistics contains the five tables mentioned above. Tables 2 through 5 are collectively referred to as “other tables” and are compiled from the energy balance table and data obtained from the original data tables after adjustments. Tables 2 through 5 allow comparisons among member economies.

5. Energy balance table

The structure of the energy balance table, in principle, is the same as that of IEA's but with some differences. These are as follows:

APEC statistics are basically based on official data provided by government agencies of the member economies, and thus, agencies exclude any data not reported to the government. It is assumed that IEA estimates these quantities.

For this reason, some data for private power generations are missing in some member economies. Likewise, some economies have no consumption of biomass in the residential sector.

The reporting period may differ in APEC and IEA surveys.

6. Other tables

Other tables such as primary energy supply, final energy consumption, demand and supply by energy source, and electricity, are all designed to allow comparisons among member economies.

The primary energy supply table constitutes information on the primary energy supply, namely, production, imports, exports, stock change, and international marine and aviation bunkers in terms of calorific values (PJ), for each of the four categories of coal, petroleum, gas, and primary electricity (hydro, nuclear, geothermal power, etc.).

The final consumption table shows the consumption of coal (including coal products), petroleum, gas, electricity, and other energy sources for each final consumption sector (agriculture, residential, commercial, industry and transport).

The demand and supply table for each energy source emphasises coal, petroleum and gas, and shows how the primary

supply quantity is consumed in the transformation and final energy consumption sectors.

The electricity table illustrates the power generation and fossil fuel input for each of the five categories of thermal, hydro, nuclear, geothermal and other sources of power generation.

7. Notes on member economies

Most of the member economies' annual data are calculated by calendar year (1 January - 31 December) except for Australia and Japan. These economies account their energy statistics by fiscal year (1 July - 30 June for Australia and 1 April to 31 March for Japan).

In view of harmonisation efforts with the IEA, ESTO accepts submission from OECD members using the IEA format. Likewise, to reduce the burden of member economies' statisticians, ESTO decided to leave the verification of APEC OECD member economies data to IEA and just used the processed and updated data from IEA.

8. Socio-economic data

The socio-economic data of each member economy shown in the APEC Energy Statistics are not part of the reports provided by the member economies. These were obtained from the World Development Indicators of the World Bank and The International Financial Statistics Yearbook of the International Monetary Fund (IMF) and summarised by ESTO. Meanwhile, as macroeconomic data of Chinese Taipei are not available in these international data providers, statistics were derived from Chinese Taipei's statistics website (DGBAS).

In addition to downloading GDP in Chinese Taipei's local currency and constant dollar values, ESTO/APERC provides estimates

of Chinese Taipei's GDP in PPP, constant 2017 USD.

9. APEC energy database

The online APEC energy database, which contains all the data in the APEC Energy Statistics can be accessed at: <https://www.egeda.ewg.apec.org/>.

The data are as follows:

- (1) Annual energy supply and demand (energy balances)
- (2) Annual energy prices
- (3) Annual CO₂ emissions from energy combustion
- (4) Quarterly energy supply
- (5) Monthly oil and gas supply and demand

2 Overview of APEC Energy situation

Overview of APEC energy situation

1. Background

The 2025 edition of the APEC Energy Statistics covers the energy demand and supply situation in APEC using 2023 data. It would be worth noting that this edition of the publication has the latest data that was officially submitted by the EGEDA members containing energy consumption after the COVID-19 pandemic. It also included a general comparison of the APEC situation with the world in terms of population, gross domestic product (GDP in PPP¹ 2021 USD), and total primary energy supply (TPES).

This chapter also included analyses of the progress of the APEC twin goals—the energy intensity reduction goal from 2005 to 2035 and the RE share doubling from 2010 to 2030. For a better understanding of the terms used in the analyses, the readers may refer to the definitions of products and flows provided in the Appendices.

As in previous publications, regional disaggregation follows the groupings used in the APEC Energy Demand and Supply Outlook. Unless otherwise specified, China; Russia and the United States were considered as regions in the analyses in view of the big differences in scales with other APEC economies. The groupings are as follows:

- **Other Americas:** Canada; Chile; Mexico; and Peru
- **Southeast Asia:** Brunei Darussalam; Indonesia; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam
- **Oceania:** Australia; New Zealand; and Papua New Guinea
- **Other Northeast Asia:** Hong Kong, China; Japan; Korea; and Chinese Taipei

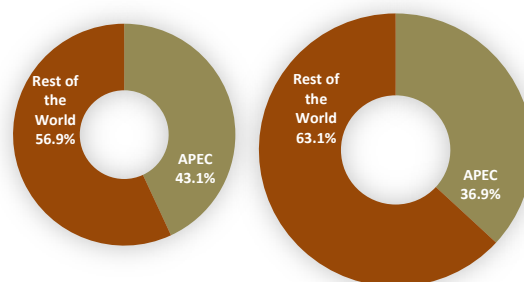
- **China**
- **Russia;** and
- **The United States**

APEC and the rest of the world

Population

In 2023, the population of APEC economies reached 2.974 billion, increasing by 0.3% from 2022. This growth rate is notably lower than the compound annual growth rate (CAGR) of 0.8% observed between 1990 and 2022. The relatively slow growth in APEC contributed to the overall moderation in global population growth.

Figure 2.1. APEC's share of the world population, 1990 and 2023



Source: World Bank

Meanwhile, the world's total population rose by 0.9% from 2022, reaching 8.065 billion in 2023. In contrast to APEC, the rest of the world experienced a more robust population increase of 1.3%, bringing its total to 5.091 billion. As a result, APEC's share of the global population continued its gradual decline, falling to 36.9% in 2023. Figure 2.1 illustrates APEC's share of the world population in 1990 and 2023.

Within APEC, three regions recorded population declines between 2022 and 2023: other northeast Asia (-0.2%), Russia

¹ Purchasing power parities (PPPs) are currency conversion rates that adjust for price level differences between economies, enabling real-

term comparisons of GDP and expenditures across economies. (WB, ICP-2021).

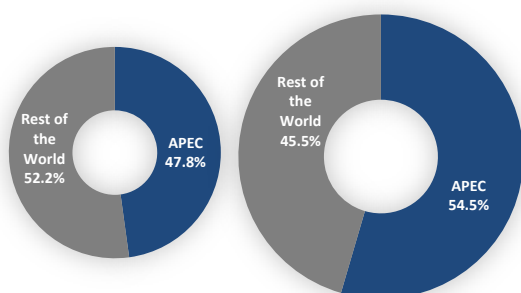
(-0.3%), and China (-0.1%). These decreases were offset by growth in Oceania (2.3%)—the primary contributor to APEC’s overall population increase—as well as in other Americas (1.2%), Southeast Asia and the United States (both having 0.8%).

Gross domestic product (GDP)

In 2023, APEC’s gross domestic product (GDP), measured in purchasing power parity (PPP, constant 2021 USD), grew by 3.8% year-on-year to reach USD 91 401 billion. This growth slightly outpaced the region’s compound annual growth rate (CAGR) of 3.7% from 1990 to 2022.

In comparison, the rest of the world recorded a lower growth rate of 3.0% in 2023, with a total GDP of USD 76 232 billion (PPP, constant 2021 USD).

Figure 2.2. APEC’s share of the world GDP, 1990 and 2023



Source: World Bank and Chinese Taipei

Thanks to its stronger performance, APEC retained a dominant share of global GDP at 54.5% in 2023. The region’s economic growth was primarily driven by China (5.4%); Southeast Asia (4.2%); and Russia (4.1%). China remained the largest contributor to APEC’s GDP, accounting for 35% of the total, followed by the United States at 27%; with other northeast Asia and Southeast Asia each contributing 12% and 11%; respectively. Figure 2.2 shows APEC’s share of the world GDP in 1990 and 2023.

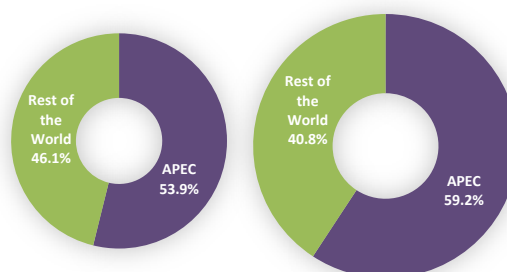
Total Primary Energy Supply (TPES)

APEC’s TPES grew by only 0.7% to 375 exajoules (EJ) in 2023. This is a big drop in the growth rate considering the 2.0% CAGR from 1990 to 2022.

The modest increase in APEC TPES was largely due to the significant decreases in TPES of other northeast Asia (2.8%); the United States (1.5%) and Russia (2.1%). The increases in China (3.0%); Oceania (1.9%); Southeast Asia (1.8%); and other Americas (0.8%) kept the APEC growth rate in the positive territory. Consequently, APEC’s share of the global TPES remained significant at 59.2% in 2023.

In contrast, the world’s TPES grew by 1.8% from 2022 and reached 634 EJ in 2023. This is due to the 3.5% increase in that of the rest of the world resulting in a reduction in the share of APEC from 59.9% in 2022. Figure 2.3 shows APEC’s share of the world TPES in 1990 and 2023.

Figure 2.3. APEC’s share of the world TPES, 1990 and 2023



Source: APEC and IEA

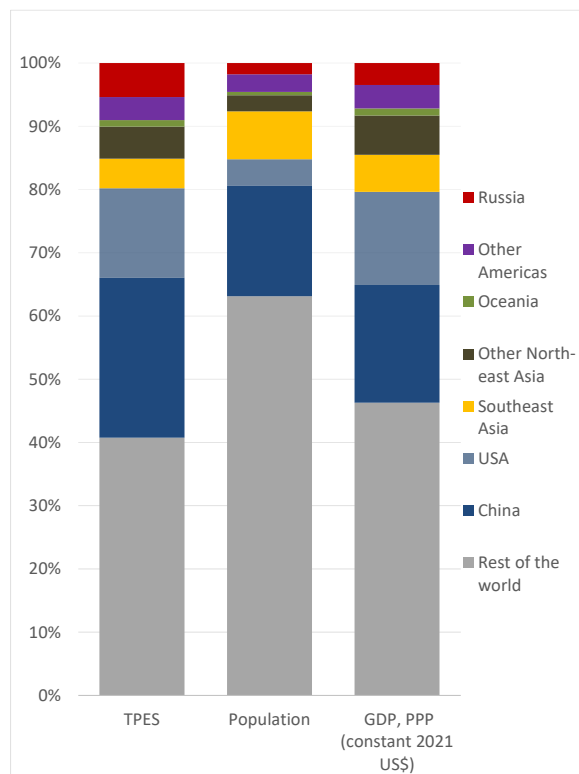
Drivers of APEC’s energy consumption

In 2023, the three largest APEC regions in terms of total primary energy supply (TPES) accounted for almost one-quarter of the world’s population and more than one-third of global GDP (PPP, 2021 USD) yet consumed 45% of the world’s total energy. Their relative contributions within APEC, however, differed significantly.

These top three regions dominated APEC’s own energy profile: they supplied 45% of APEC’s TPES and generated 37% of

APEC's GDP, while representing only 23% of the APEC population.

Figure 2.4. Shares of APEC regions in world TPES, population and GDP in 2023



Source: APEC, IEA, Chinese Taipei and World Bank

The largest contributors to APEC's economic output in 2023 were China (35%); the United States (27%); and other northeast Asia (12%). Together, they produced nearly three-quarters of APEC's GDP (PPP, constant 2021 USD). China was the primary driver of APEC's economic expansion, recording 5.4% GDP growth from 2022 to 2023.

APEC continued to dominate global energy supply, accounting for over 59% of world's TPES. Within the region, the three largest energy-consuming economies—China; Russia; and the United States—made up three-quarters of APEC's TPES. While all three contributed to the increase in APEC's energy supply, China again led growth, with a 3.0% rise in TPES from 2022 to 2023.

In relative terms, the combined TPES of APEC's three largest consumers (45%) exceeded the rest of the world's share of

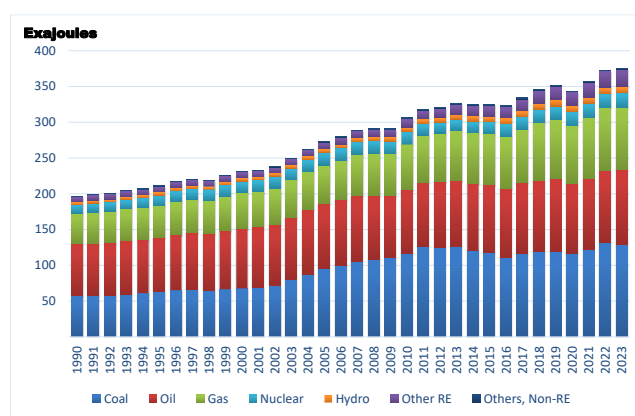
global TPES (41%) by four percentage points. Meanwhile, the combined GDP of APEC's four largest economies was 1 percentage point above the rest of the world's 45% share of global GDP (PPP, constant 2021 USD).

Within APEC, regional shares varied considerably, although China consistently dominated TPES, GDP, and population in 2023. For example, the combined TPES of Russia; the United States; and other northeast Asia was only one percentage point lower than China's 43% share of APEC TPES. China's GDP was also roughly equivalent to the combined economic output of Russia and the United States. Finally, the combined population of five APEC regions—Southeast Asia; the United States; other northeast Asia; Other Americas; and Oceania (48%)—was nearly identical to China's 47% share of APEC's total population.

2. Energy supply trends

The total primary energy supply (TPES) in APEC rose by 0.7% in 2023, reaching 375 EJ. This pace of growth is noticeably slower than the long-term compound annual growth rate (CAGR) of 2.0% observed from 1990 to 2022, as shown in Figure 2.5. Even with the recent moderation, the overall CAGR for the full 1990–2023 period remains at 2.0%, indicating that long-term structural expansion in regional energy demand has been sustained. China was the principal driver of TPES growth in 2023, recording a 3.0% increase and reaching a historic high of 160 186 petajoules (PJ). This single-economy increase accounted for most of the region's net growth, underscoring China's central role in shaping APEC's energy supply trajectory.

Figure 2.5. Evolution of APEC TPES, 1990–2023



Source: APEC, IEA, ESTO analysis

Two other regions recorded modest but positive increases in TPES in 2023, with Oceania rising by 1.9% and Southeast Asia by 1.8%, reflecting steady growth in energy demand across both subregions. The other Americas also posted an increase, though at a slower pace of 0.8%, indicating relatively stable but subdued energy supply dynamics.

In contrast, the remaining regions experienced declines in TPES from 2022 to 2023. Other northeast Asia registered the largest drop at 2.8%; followed by Russia at 2.1% and the United States at 1.5%. These reductions collectively offset the gains in

other parts of APEC and ultimately constrained the region's overall TPES growth to just 0.7% for the year.

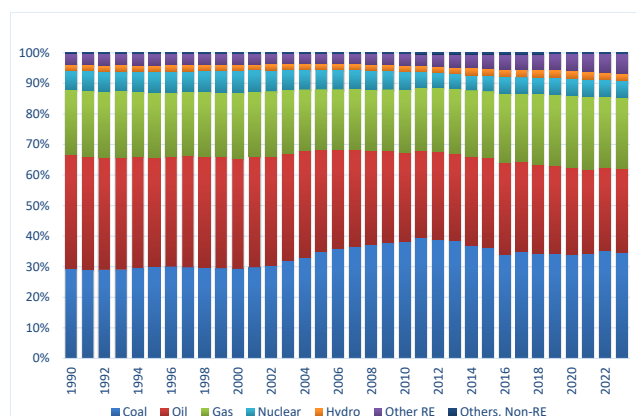
Primary energy mix by source

APEC's primary energy supply in 2023 reflects a system in transition, where long-term dependence on fossil fuels coexists with rapid—but still small-scale—growth in renewables. Over the 1990–2023 period, coal and gas expanded steadily, while oil grew more modestly, keeping an energy mix that remains above 85% fossil-based. In contrast, solar and wind posted extraordinary multi-decade growth rates, yet their combined share reached only 2.5% in 2023, underscoring the challenge of shifting a large, mature energy system toward low-carbon sources.

Short-term movements between 2022 and 2023 highlight a different dynamic: fossil fuels show volatility, while renewables accelerate. Coal contracted by 1.8%, and hydro fell sharply by 5.9%, partly due to weather-related constraints and fuel switching. Meanwhile, solar surged by 23.5% and wind by 9.1%, continuing their role as the main contributors to incremental low-carbon growth. Oil's 2.6% rebound signals ongoing recovery in transport and petrochemical demand. Despite these shifts, total supply grew only 0.7%, indicating a cooling in overall energy demand even as the mix evolves.

Taken together, the 2023 energy landscape signals early transition rather than structural transformation. Coal's 34.5% share and gas's 23.3% highlight the continued centrality of fossil fuels, especially in power generation across emerging APEC economies. Nuclear and other renewables provide stability but remain secondary contributors. The rapid growth of solar and wind is reshaping marginal additions to supply, yet their small base means their system-wide impact is still limited. The region is clearly moving toward cleaner energy, but the core of the system remains anchored in fossil fuels, reflecting the inertia of existing infrastructure and the scale of the transition still ahead.

Figure 2.6. APEC Primary energy mix, 1990-2023



Source: APEC, IEA, ESTO analysis

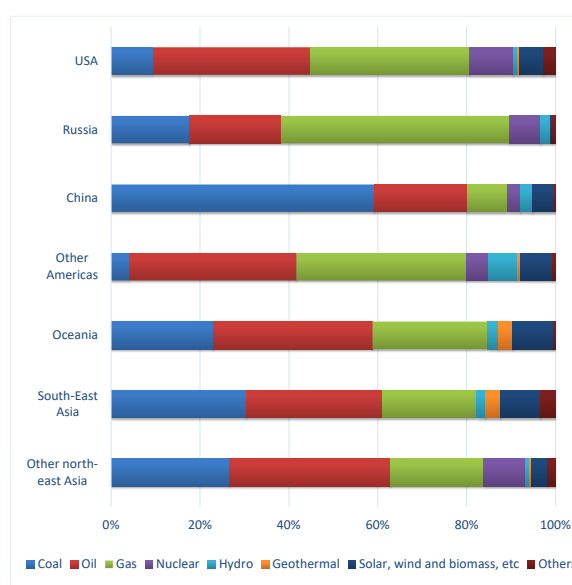
Primary energy mix by region

APEC's primary energy supply has undergone a major structural shift over the past three decades, driven by China's rapid expansion and the relative decline of long-established energy consumers. From 1990 to 2023, China's PES grew at a CAGR of 5.4%, lifting its share of total APEC supply from 14.4% to 42.7%, making it the dominant contributor to regional energy demand. In contrast, the United States—once accounting for 40.8% of APEC's supply—expanded only 0.3% annually and now represents 23.9%, reflecting slower economic and energy demand growth.

Russia's long-term contraction (-0.2% CAGR) reduced its share from 18.8% to 9.1%, underscoring structural stagnation and geopolitical constraints. Southeast Asia stands out as a consistent growth engine, with PES rising 4.3% annually and its share more than doubling to 7.9%, supported by industrialization and demographic momentum. Other subregions such as: other northeast Asia; Other Americas; and Oceania—grew modestly but saw gradual reduction of their shares as China and Southeast Asia captured a larger portion of regional energy demand.

Short-term changes from 2022 to 2023 reinforce this pattern: China; Southeast Asia; and Oceania continued to expand, while Russia; the United States; and other northeast Asia contracted, resulting in APEC's overall modest PES growth of 0.7%. Together, these trends illustrate a long-running rebalancing of primary energy supply within APEC, with the center of gravity shifting decisively toward China and the emerging economies of South-East Asia.

Figure 2.7. Primary energy mix in APEC and sub-regions in 2023



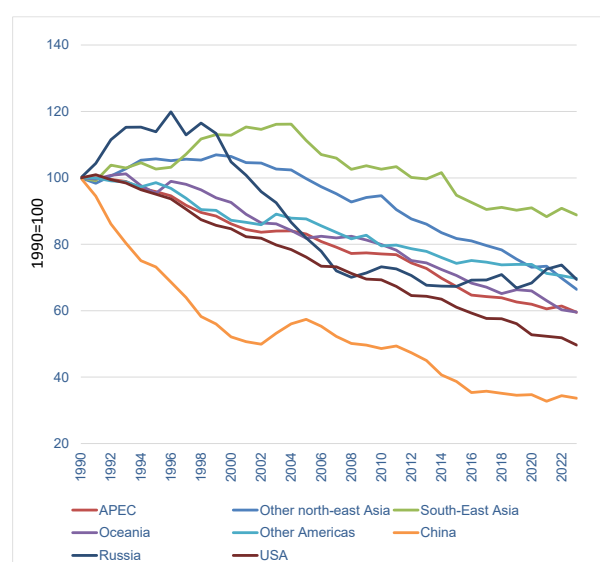
Source: APEC, IEA, ESTO analysis

Primary energy intensity

Energy intensity continued its long-term downward trend across APEC, with nearly all regions improving efficiency between 2022 and 2023 and showing substantial reductions since 1990. The most recent year saw a 2.8% decline in overall energy intensity, driven by notable improvements in Russia; other northeast Asia; and the United States; each posting reductions of 4–6%, while Southeast Asia and China also recorded meaningful declines. Over the longer 1990–2023 period, every region achieved significant structural efficiency gains, with China showing the most significant improvement at -66%, followed

by the United States at –50% and Oceania at –40%. These long-term declines reflect sustained shifts toward more efficient technologies, economic restructuring, and policy-driven energy conservation, even as short-term fluctuations vary by region.

Figure 2.8. Primary energy intensity in APEC in sub-regions, 1990-2023



Source: APEC, WB, IEA, ESTO analysis

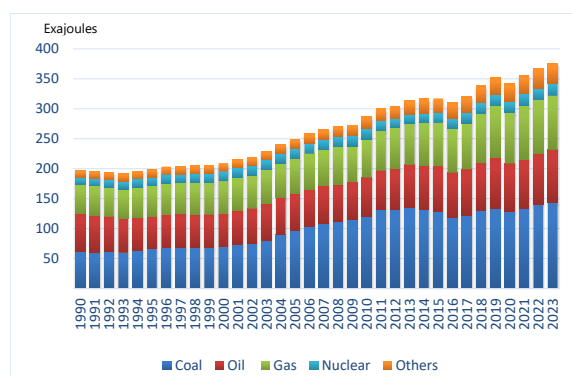
Production

Energy production across APEC economies has grown substantially over the long term, even though short-term year-to-year changes vary widely by region. Between 2022 and 2023, most regions posted modest increases in energy production—typically in the range of 2–7%—with China; the United States; Southeast Asia; and other northeast Asia showing the strongest short-term gains. At the same time, Oceania and Russia experienced slight declines, reflecting local economic or supply-side adjustments.

Over the full period from 1990 to 2023, however, the picture is significantly different: every region except Russia recorded very large cumulative increases, driven by decades of economic expansion, industrialization, and rising energy demand. China stands out with an exceptional 316% increase; followed by South-East Asia at

201% and Oceania at 159%; highlighting the rapid growth of emerging economies and resource-rich regions. APEC nearly doubled its energy production over the period, rising by 91%, indicating a strong and persistent long-term upward trajectory despite short-term fluctuations.

Figure 2.9. Energy production in APEC, 1990-2023

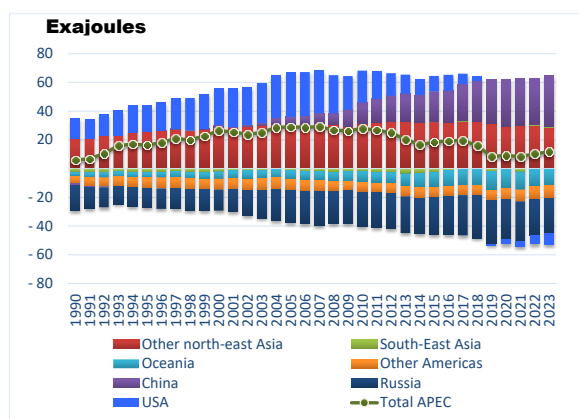


Source: APEC, IEA, ESTO analysis

Net imports by region

APEC remained a net importer of energy in 2023, with net imports (imports minus exports) rising by 13% compared with the previous year. The overall import–export structure shifted slightly from 2022. Southeast Asia, which had been a net exporter for three consecutive years from 2019 to 2021, continued as a net importer in 2023. China and other northeast Asia also remained net importers, consistent with their long-standing reliance on external energy supplies. All other regions were net exporters, including the United States, which has maintained its net-exporter status since 2019. This pattern underscores the persistent divide within APEC between economies dependent on imported energy and those with surplus production available for export.

Figure 2.10. Net energy imports in APEC per region, 1990-2023



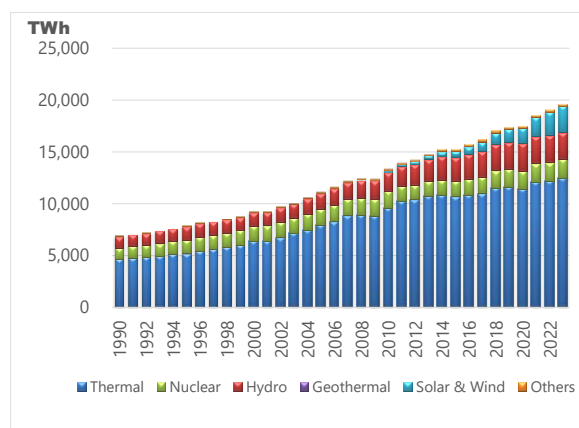
Source: APEC, IEA, ESTO analysis

Power generation

Power generation grew by 3.0% to a historic level of 19 675 TWh in 2023. This is equivalent to a compound annual growth rate of 3.2% between 1990 and 2023. The continued upsurges of electricity output from solar and wind sources bolstered electricity generation in 2023. Their combined shares of total power generation rose from 11.6% in 2022 to 12.9% in 2023 (Figure 2.11).

China spurred the growth of electricity generation in APEC with its 6.9% increase from 2022 to 2023. Its share of the overall electricity output remained dominant, even exceeding its previous year's generation output with a historic 9 456 TWh in 2023.

Figure 2.11. Power generation by source, 1990-2023

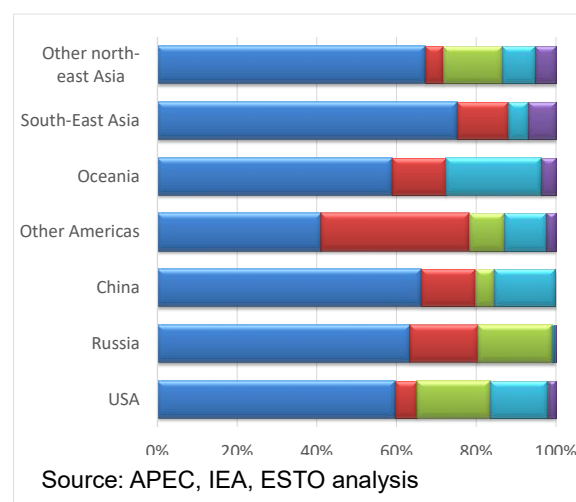


Source: APEC, IEA, ESTO analysis

Electricity output from renewable energy (excluding hydro) rose by almost 13.3% in 2023. In particular, the combined solar, wind, biomass and ocean surged by over 13.6% to 2 806 TWh, exceeding the 2022 electricity generation from renewable energy. This was in view of the record-high increases in the electricity generation for renewable energy in most of the APEC regions as an indication of the race to the energy transition.

Despite the expansion in electricity generation from solar, wind, biomass and other renewables, electricity output from hydro dropped by 5.6% while geothermal has modest growth of 1.2% from 2022 to 2023.

Figure 2.12. Power generation mix by region, 2023



Source: APEC, IEA, ESTO analysis

Electricity output from fossil fuels increased by 2.8% in 2023, although the long-term growth from 1990 to 2023 was 3.0% indicating shift to non-fossil generation. Fossil fuel share of total power generation remained dominant at 63.6% dropping just 0.1% from the 2022 share of 63.7%.

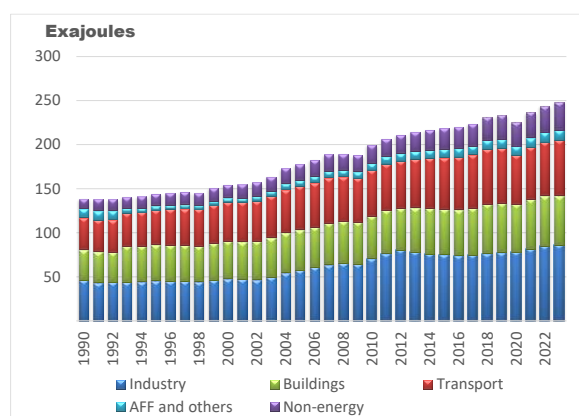
By region, Southeast Asia has the highest share of fossil fuels in the power generation mix with 75% followed by other northeast Asia with 67%. China follows closely with 66% although it has the largest power generation from fossil fuels among all the APEC regions. As to the other regions, Russia had 63% fossil fuel share; the

United States with 60%; Oceania with 59% and other Americas with 41%. See Figure 2.12.

Energy demand trends

Total final consumption (TFC) in APEC (including non-energy use) increased by 2% to over 249 EJ in 2023. The growth rate was higher than compounded growth between 1990 and 2023 of 1.8%. The industry sector was responsible for 34.5% of APEC consumption and drove overall growth with its 3.1% expansion in 2023 (Figure 2.13). Non-energy consumption grew by 7.5% to 32 108 PJ, the most significant level by far historically. China was responsible for 49% of APEC's non-energy consumption in 2022.

Figure 2.13. Total final consumption in APEC, 1990-2023



Source: APEC, IEA, ESTO analysis

Total final energy consumption by sector

APEC's sectoral energy consumption in 2023 reflects a mix of short-term fluctuations and long-term structural growth, with each sector's influence shaped by its relative share in total final energy consumption (TFEC). Overall TFEC grew by 1.2% between 2022 and 2023, slightly below the long-term average of 1.6% since 1990, indicating a moderation in demand. The sectoral breakdown helps clarify which parts of the economy are driving or dampening this shift.

Industry remains the largest energy-consuming sector, accounting for 39.6% of TFEC in 2023. Its consumption increased by 1.3% in the most recent year, below its long-term growth rate of 1.9%. This suggests that while industrial activity continues to expand, the pace has softened relative to historical trends. Given its substantial share, even modest changes in industry significantly influence total energy demand.

Transport, the second-largest sector at 29.0% of TFEC, recorded a strong 3.1% increase in 2022–2023—well above its long-term average of 1.7%. This rebound likely reflects the continued normalization of mobility patterns following pandemic-related disruptions, as well as sustained demand for freight and logistics services across the region. Transport's above-trend growth was a major contributor to the overall rise in TFEC.

Buildings, which collectively represent 26.0% of TFEC, showed a decline of –1.6% in 2022–2023 despite long-term growth of 1.5%. Both sub-sectors contributed to this contraction: commercial buildings fell slightly by –0.1%, while residential consumption dropped more sharply by –2.4%. These declines may reflect milder weather conditions, efficiency improvements, or post-pandemic adjustments in occupancy and behavior. The buildings sector's downturn acted as a counterweight to growth in industry and transport.

AFF and others (agriculture, forestry, fisheries, and miscellaneous uses) grew by 4.5%, far above their long-term trend of 0.4%, though their share remains small at 5.3%. This surge, while notable, has limited impact on total demand due to the sector's modest size.

Taken together, the sectoral data reveal a system in which transport and non-energy uses are driving short-term growth, while buildings exert a moderating influence. Industry continues to anchor the energy system due to its large share, though its

growth has eased relative to historical patterns. The combination of these dynamics explains why overall TFEC growth in 2023 remained positive but below the long-term average. The interplay between sectoral shares and growth rates provides a clearer picture of how economic activity, behavioral shifts, and structural trends shape APEC's evolving energy demand.

Total final energy consumption by region

APEC's regional energy consumption patterns in 2023 reflect a combination of long-term structural shifts and short-term divergences, shaped by the differing economic trajectories, demographic trends, and energy transitions across member economies. Total final energy consumption (TFEC) grew by 1.2% between 2022 and 2023, slightly below the long-term average of 1.6% since 1990. The regional breakdown clarifies which economies are driving this expansion and which are exerting a moderating influence.

China remains the dominant contributor to APEC energy demand, accounting for 40.0% of TFEC in 2023. Its consumption grew by 4.5% in 2022–2023, exceeding its already high long-term growth rate of 4.3%. This strong performance underscores China's continued role as the primary engine of regional energy demand, driven by industrial activity, urbanization, and rising living standards. Given its large share, China's above-trend growth was the single largest driver of the region's overall increase in TFEC.

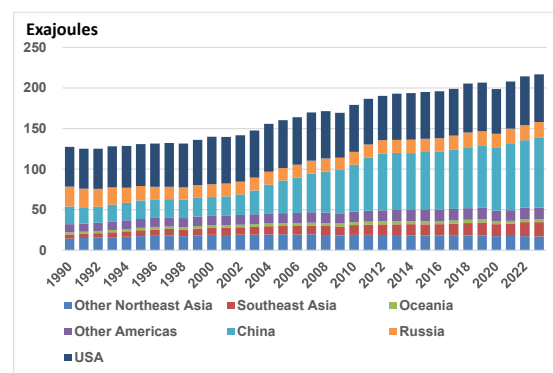
South-East Asia also posted robust growth, expanding by 2.9% in the most recent year, close to its long-term average of 3.9%. With an 8.2% share of TFEC, the subregion continues to be one of the fastest-growing energy markets in APEC, supported by population growth, economic expansion, and increasing electrification. Oceania, though much smaller at 1.8% of TFEC, matched South-East Asia's short-term growth rate of 2.9%, reflecting strong

activity in both residential and industrial sectors.

In contrast, several mature economies experienced declines in 2022–2023. The United States, representing 27.1% of TFEC, saw consumption fall by –1.9%, despite a long-term growth rate of 0.5%. This decline likely reflects efficiency improvements, structural shifts toward less energy-intensive activities, and milder weather conditions. Other north-east Asia (excluding China) also contracted by –2.5%, well below its long-term trend of 0.5%, contributing to the overall moderation in regional demand. Similarly, Other Americas declined by –1.1%, despite a long-term growth rate of 1.0%.

Russia presents a distinct pattern: its long-term energy consumption has declined at an average rate of –0.8% since 1990, reflecting demographic trends, structural economic changes, and efficiency gains. In 2022–2023, Russia's consumption fell only slightly (–0.1%), suggesting a temporary stabilization. With an 8.6% share of TFEC, Russia remains a significant contributor to regional trends, though its long-term trajectory differs from most other APEC economies.

Figure 2.14. Final energy consumption by region, 1990–2023



Source: APEC, IEA, ESTO analysis

Taken together, the regional data reveal a system in which China and South-East Asia are driving growth, while the United States; Other north-east Asia; and Other Americas are moderating it. The interplay between these expanding and contracting regions explains why overall TFEC growth in 2023 remained positive but below the

long-term average. The distribution of shares further highlights the outsized influence of China and the United States. The combined 67% share of these two economies means that their respective expansions or contractions heavily shape APEC's aggregate energy trajectory.

Final energy consumption by energy source

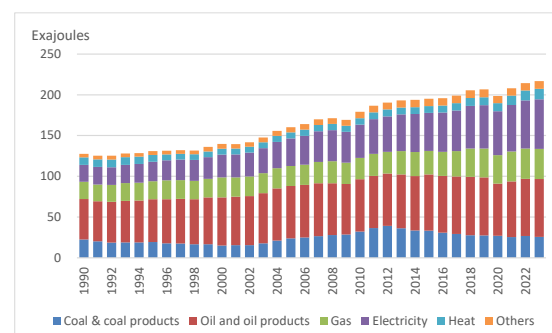
Final energy consumption in 2023 reflects a combination of short-term volatility and long-term structural evolution, with the relative weight of each fuel shaping its overall impact on APEC energy demand. The latest data show that while total final energy consumption grew by 1.2% between 2022 and 2023, this is slightly below the long-term average growth rate of 1.6% observed since 1990, indicating a modest moderation in demand. Understanding the drivers of this shift requires examining both the growth rates and the 2023 energy mix, which together reveal the underlying dynamics of the region's energy system.

Oil and electricity remain the two dominant pillars of APEC's energy consumption, accounting for 32.7% and 28.1% of the 2023 mix, respectively. Their growth patterns are remarkably stable: oil increased by 1.3% in 2022–2023, closely aligned with its long-term trend of 1.1%, while electricity grew by 3.0%, nearly matching its long-run average of 3.3%. Because of their large shares, even moderate growth in these sectors exerts a significant influence on total energy demand. Electricity stands out as the most consistent and fastest-growing major energy source, underscoring its central role in economic activity, electrification, and the broader energy transition.

Coal presents a contrasting story. Despite a sharp decline of –4.4% in 2022–2023—the steepest drop among all fuels—coal still accounts for 11.8% of the energy mix and shows a slight positive long-term growth rate of 0.4%. This contrast highlights the transition tension within the region: while

short-term consumption is falling, structural dependence persists in several economies. Coal's decline also contributed meaningfully to the overall slowdown in total energy growth, given its still-substantial share.

Figure 2.15. Final energy consumption by energy source, 1990–2023



Source: APEC, IEA, ESTO analysis

Gas consumption dipped slightly by –0.5% in the most recent year, despite a long-term growth rate of 1.7% and a 17.0% share in 2023. This suggests that short-term factors—such as price fluctuations, supply constraints, or weather-related demands outweigh the structural drivers that have historically supported gas expansion in the region.

Heat and “Others” (including renewables and alternative fuels) recorded the strongest short-term growth, at 6.6% and 4.8%, respectively. However, their combined share remains modest at 10.3%, limiting their influence on total demand. Still, their growth rates—both short-term and long-term—signal emerging momentum in smaller but increasingly relevant segments of the energy system. These categories may become more influential as economies pursue decarbonization and diversify their energy portfolios.

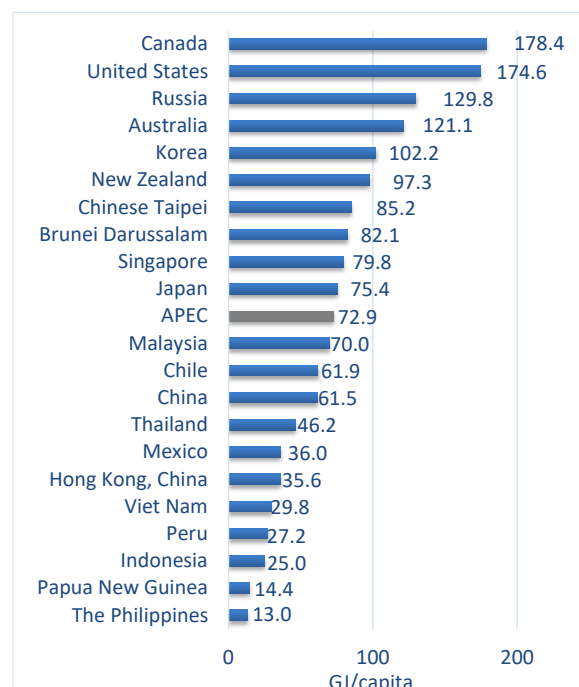
Overall, the data reveal a system in which long-term structural growth continues, driven primarily by electricity, oil, and gas, while short-term dynamics—notably the decline in coal—moderate the pace of expansion. The interplay between growth rates and fuel shares provides a clearer understanding of which sectors are

shaping APEC's energy trajectory. Electricity's consistent expansion, oil's enduring dominance, coal's transitional decline, and the rising but still limited role of heat and other fuels collectively define the region's evolving energy landscape.

Energy consumption per capita

Energy use per capita in APEC reached a new all-time high in 2023, rising by 0.9% to 72.9 GJ per person. The highest per-capita energy consumers were Canada (178.4 GJ); the United States (174.7 GJ); and Russia (129.8 GJ)—with Russia overtaking Australia (121.1 GJ), which moved to fourth place. In contrast, eleven economies remained well below the APEC average, including China, which ranked 14th with 61.5 GJ per capita. These disparities highlight the wide variation in energy use patterns across the region, reflecting differences in climate, economic structure, industrial activity, and levels of development.

Figure 2.16. Energy consumption per capita, 2023

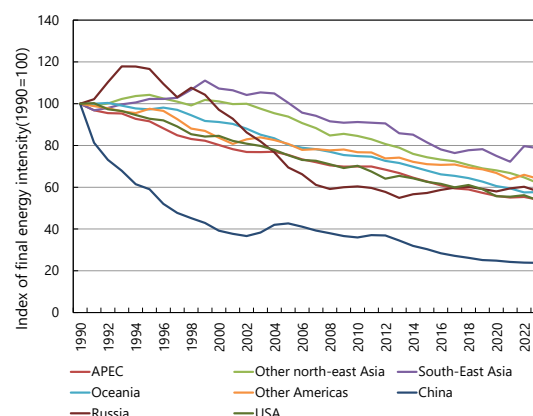


Source: APEC, WB, IEA, ESTO analysis

Final energy intensity

Final energy intensity—measured as total final energy consumption (PJ) per unit of GDP (PPP, constant 2021 USD)—continued its long-term improvement across APEC. Between 1990 and 2023, energy intensity declined by 45.9%, reaching 2.4 MJ per USD (PPP, constant 2021), as shown in Figure 2.17. This sustained reduction reflects structural economic shifts, efficiency gains, and technological improvements across the region. (Note: this indicator is distinct from the APEC-wide energy intensity goal, which uses 2005 as the base year.)

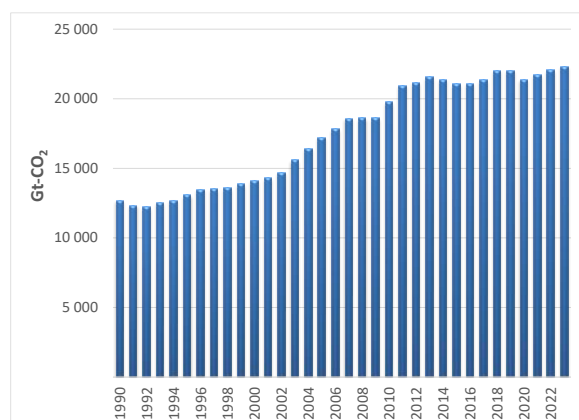
Figure 2.17. Indices of final energy intensity, 1990-2023



CO₂ emissions

APEC's CO₂ emissions in 2023 reflect a mix of long-term structural trends and short-term shifts, with notable differences across regions. Overall emissions grew by 1.1% between 2022 and 2023, below the long-term average of 1.7% since 1990, indicating a moderation in emissions growth. The regional breakdown helps clarify which economies are driving this change and which are exerting downward pressure.

Figure 2.18. APEC CO₂ emissions, 1990-2023



Source: APEC, UNFCCC, ESTO analysis

China remains the largest contributor to APEC emissions and continues to post strong growth. Emissions increased by 3.6% in 2022–2023, closely aligned with its long-term trend of 4.5%. This reflects ongoing industrial activity, rising energy demand, and the scale of China's economic expansion. Given its size, China's growth remains the primary driver of APEC-wide emissions.

Southeast Asia also recorded robust emissions growth of 2.9%, consistent with its long-term average of 4.8%. Rapid economic development, population growth, and increasing energy use continue to shape the region's emissions trajectory. Oceania and Other Americas posted modest increases of 0.4% and 0.0%, respectively, both below their long-term trends, suggesting a period of relative stability.

In contrast, several mature economies experienced notable declines in emissions. The United States saw a significant reduction of –4.2%, well below its long-term trend of –0.3%, reflecting efficiency improvements, structural economic shifts, and milder weather conditions. Other northeast Asia also recorded a sharp decline of –3.2%, compared with a long-term growth rate of 0.6%, contributing to the overall moderation in APEC emissions.

Russia presents a distinct pattern: despite a long-term decline in emissions of –1.3%, its emissions increased by 3.6% in 2022–2023. This short-term rise contrasts with its historical trajectory and reflects temporary factors affecting energy demand and economic activity.

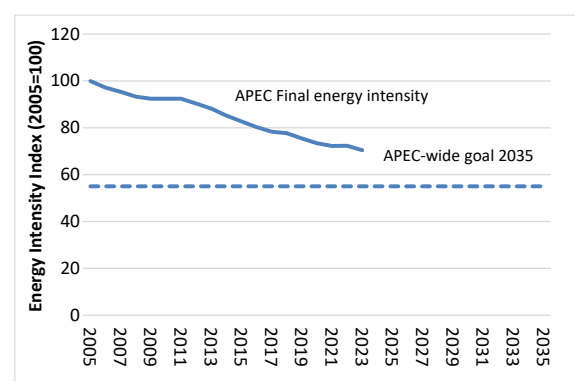
The regional data show that China and Southeast Asia remain the main sources of emissions growth, while the United States and other northeast Asia exert downward pressure. The combination of these opposing trends explains why APEC's overall emissions growth in 2023 remained positive but below the long-term average. The regional differences underscore the diverse economic structures, energy mixes, and transition pathways across APEC economies.

APEC Goals

Energy Intensity goal

The APEC region made progress toward its goal of improving energy intensity by 45% by 2035 (relative to 2005). Between the period 2005 to 2023, both final energy consumption and GDP grew, but GDP expanded at a faster pace, resulting in a 29.5% reduction in energy intensity over the period.

Figure 2.19. Progress on APEC energy intensity goal, 2005-2023



Source: APEC, IEA, WB, ESTO analysis

Based on this trajectory, the region needs to achieve an average annual reduction of only 1.3% from 2022 onward to meet the 2035 goal (Figure 2.19). If recent trends in

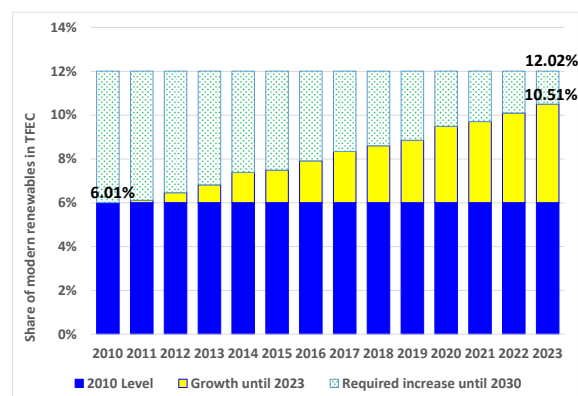
final energy consumption and GDP growth persist, APEC is on track to reach the 45% reduction target by 2032, three years ahead of schedule.

RE doubling goal

Progress has also been made in the goal of doubling the share of modern renewables in the energy mix by 2030 (relative to 2010). With just 65% of the time to the goal, the modern renewable share of final energy consumption increased by 75% in 2022 or equivalently from its 2010 share of 6.01% to 10.51% in 2023. Given this growth of renewables utilisation, the APEC RE share doubling goal in the final energy demand is expected to be achieved in 2030.

In terms of total primary energy supply (TPES), RE share increased from 4.78% in 2010 to 8.21% in 2023. Like in TFEC, with only 65% of the time to 2030, RE share to TPES will likely meet the goal to double from the 2010 level.

Figure 2.20. Progress on renewable energy doubling goal, 2010-2023



Source: APEC, IEA, ESTO analysis

The share of renewables in power generation in APEC has likewise been increasing. In 2022, electricity output from renewable energy was well over 26% or equivalent to a rise of 70% compared with 2010 (Figure 2.20). Given the increasing utilisation of renewable energy with just 35% of the time to the goal, the doubling goal share to final energy consumption, TPES and power generation will likely be met by 2030.

Energy balance table

This section presents the 2023 aggregate energy balance table (EBT) of APEC (Table 2.1). Note that the export/import row does not imply the volume of trade

between the APEC region and the rest of the world.

Total final energy consumption comprises industry, transport, buildings and agriculture sector, while total final consumption includes non-energy.

New energy products and technologies such as hydrogen, e-fuels, EVs, district cooling are emerging quickly. There is an ongoing discussion among international energy statistics organisations how to account them. Hence, in the future these may be included in the EBT.

Table 2.1. APEC energy balance table (PJ), 2023

	Coal	Coal products	Peat, oil shale and oil sands	Crude Oil, NGL and condensate	Petroleum products	Gas	Nuclear	Hydro	Geothermal	Solar	Tide, Wave, Ocean	Wind	Solid Biomass	Others	Electricity	Heat	Total	Total Renewables
1 Indigenous production	143 358	3	10	87 831		90 596	20 126	8 615	1 863	4 112	2	5 261	9 472	4 917		2	376 168	33 253
2 Import	18 559	118		60 229	24 345	20 088							113	283	427		124 163	396
3 Export	-28 019	- 349	- 1	-33 616	-27 376	-22 493							- 69	- 194	- 418		-112 535	- 263
4 International marine bunkers					-3 814									- 5			-3 819	- 5
5 International aviation bunkers					-2 911												-2 911	
6 Stock change	-3 774	- 377		- 40	- 655	- 845								- 2			-5 692	- 2
7 Total primary energy supply	130 124	- 605	9	114 404	-10 411	87 346	20 126	8 615	1 863	4 112	2	5 261	9 517	4 999	9	2	375 373	33 380
8 Transfers				390	334												724	
9 Main activity producer	-78 926	-2 575	- 5	- 2	-1 379	-31 248	-20 119	-8 488	-1 780	-3 301	- 2	-5 208	-2 953	- 621	68 031	13 991	-74 584	-22 093
10 Autoproducer	-1 356	- 408	- 3	- 26	- 658	-4 936		- 137	- 43	- 599		- 53	- 871	- 553	2 800	1 529	-5 314	-1 910
11 Gas processing	-1 192	- 245			- 90	640								- 37			- 924	- 37
12 Petroleum refineries				-115 476	111 555												-3 921	
13 Coal transformation	-25 108	16 569	- 1		- 13									- 4			-8 556	
14 Other transformation	- 9			1 390	- 725	-1 363							- 228	- 1	- 20	23	- 932	- 228
15 Losses & own-use	- 508	-1 065		- 421	-4 952	-8 297							- 8	- 12	-9 956	-2 508	-27 729	- 14
16 Discrepancy	-2 964	- 250		- 57	- 780	-1 080	- 7	10					41	- 102	61	- 48	-5 175	- 52
17 Total final energy consumption	20 061	11 421		202	92 881	41 061			40	211			5 498	3 670	60 926	12 989	248 961	9 045
18 Total final energy consumption	15 874	9 699		3	71 014	36 928			40	211			5 498	3 670	60 926	12 989	216 853	9 045
19 Industry sector	13 821	9 629		3	6 577	16 836			5	2			2 940	667	27 693	7 773	85 943	3 314
20 Transport sector	17				54 622	4 087								2 781	1 393		62 901	2 781
21 Other sector	2 036	70		1	9 816	16 005			35	210			2 558	222	31 840	5 216	68 008	2 949
21.1 Residential & commercial	1 344	70			5 626	15 572			32	205			2 210	148	26 449	4 806	56 462	2 545
21.2 Agriculture	260				2 291	192			2				321	18	1 281	124	4 490	340
21.3 Other	432				1 899	241				5			27	56	4 110	286	7 056	65
22 Non-energy	4 187	1 722		198	21 867	4 133											32 108	

Source: APEC, IEA, ESTO analysis

3 Energy Balances and Other Statistics by Member Economy

Australia

Energy balance table of Australia

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	10 815		747								5 562	57			175	113	204	3.4		17 676	548	Production
Import	4.0	11	338	1 744	329	209	1 070	31	18	86	43									2 139		Import
Export	-9 133	- 14	- 575	- 126	-0.3	-0.2	-1.8	-4.3	- 114	-5.3	-4 087									-13 936		Export
International marine bunkers				- 30			-5.9	- 24												- 30		International marine bunkers
International aviation bunkers				- 133		- 133														- 133		International aviation bunkers
Stock changes	- 217		2.3	-2.5	-3.5	2.4	0.8	1.9	-1.9	-2.1	0.8									- 216		Stock changes
Total primary energy supply	1 469	-3.1	511	1 452	326	78	1 063	4.5	- 98	79	1 519	57			175	113	204	3.4		5 500	548	Total primary energy supply
Transfers			- 151	246					159	87										95		Transfers
Total transformation sector	-1 446	54	- 527	479	187	34	143	9.8	8.8	96	- 465	- 57			- 151	- 113	- 36		985	-1 277	- 357	Total transformation sector
Main activity producers	-1 332			- 10			-9.4	-0.9		-0.1	- 274	- 56			- 53	- 113	- 16		790	-1 065	- 238	Main activity producers
Autoproducers	- 11			- 34			- 33	-0.6		-0.9	- 190	-0.4			- 98		- 20		195	- 159	- 118	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 527	523	187	34	185	11	8.8	97										-4.3		Petroleum refineries
Coal transformation	- 102	54																		- 48		Coal transformation
Other transformation																						Other transformation
Losses & own use		- 32	-1.1	- 182			- 137	-1.9	-0.3	- 43	- 384								- 177	- 776		Losses & own use
Discrepancy	64		169	- 195	6.1	19	- 116	-1.9	- 33	- 70	- 164									- 126		Discrepancy
Total final consumption	87	19		1 800	519	131	953	10	38	149	506				24		168	3.4	808	3 416	192	Total final consumption
Total final energy consumption	87	19		1 664	519	131	953	10	32	18	454				24		168	3.4	808	3 227	192	Total final energy consumption
Industry sector	87	19		200	0.5		171	2.4	7.8	18	257						114	3.4	287	968	114	Industry sector
Mining and quarrying	5.5	1.1		142			135	0.7	1.4	4.6	5.0								87	240		Mining and quarrying
Construction				25	0.1		24	0.4	0.2		2.5								7.2	34		Construction
Iron and steel	0.1	10		0.8			0.4	0.2		0.2	9.1								12	32		Iron and steel
Chemical & petrochemical	4.1	0.5		4.8			4.5	0.3			34						0.4	3.2	13	59	0.4	Chemical & petrochemical
Non-ferrous metals	54	4.0		11			2.8	0.2	0.7	7.6	115						1.6		115	300	1.6	Non-ferrous metals
Non-metallic minerals	14	0.1		7.1			1.4	0.3	3.6	1.8	42						3.5		11	78	3.5	Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery				0.7			0.5		0.2		0.4								4.5	5.6		Machinery
Food, beverages and tobacco	4.1			5.7	0.4		1.8	0.3	1.2	2.0	31						86	0.2	23	150	86	Food, beverages and tobacco
Pulp, paper and printing	2.9			2.0			0.1		0.1	1.8	13						12		11	41	12	Pulp, paper and printing
Wood and wood products	0.1			0.5			0.4		0.1		1.9						11		2.9	16	11	Wood and wood products
Textiles and leather	0.3			0.2				0.1	0.1		3.7								0.5	4.8		Textiles and leather
Non-specified industry	2.5	3.4		0.5			0.1		0.1	0.3	0.1								0.7	7.2		Non-specified industry
Transport sector				1 330	509	131	672	8.1	10		17						4.6		25	1 377	4.6	Transport sector
Domestic air transport				133	2.1	131														133		Domestic air transport
Road				1 105	495		600		9.6		0.7						4.6		0.8	1 111	4.6	Road
Rail				48			48												12	61		Rail
Inland waterways				34	12		15	7.3												34		Inland waterways
Non-specified transport				10	0.2		8.8	0.8	0.4		17								12	38		Non-specified transport
Other sector	0.1			133	9.3		110		14		180				24		50		495	882	73	Other sector
Residential				11					11		132				23		49		250	465	72	Residential
Commerce and public services	0.1			30			30		0.8		46				0.6		1.0		238	316	1.6	Commerce and public services
Agriculture				90	9.3		79		1.9		1.9								7.3	100		Agriculture
Fishery																						Fishery
Non-specified				1.3			1.3													1.3		Non-specified
Non-energy				137					5.9	131	52									189		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	127 633			4 864			4 601	160		103	48 865	15 770			41 969	31 385	3 093			273 579	92 216	Electricity generated (GWh)
Electricity plants	126 465			4 767			4 601	160		6	36 838	15 770			41 969	31 385	1 287			258 481	90 411	Electricity plants
CHP plants	1 168			97						97	12 027						1 805			15 098	1 805	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Australia

2022																						
	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products																Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat			
Production	11 416		807								5 515	59			146	105	197	3.6		18 248	507	Production
Import	2.9	12	359	1 488	288	134	949	18	19	81	137									2 000		Import
Export	-9 671	- 17	- 593	- 159	-4.9		-0.7	-6.3	- 142	-5.5	-4 173									-14 613		Export
International marine bunkers				- 25			-2.5	- 23												- 25		International marine bunkers
International aviation bunkers				- 74		- 74														- 74		International aviation bunkers
Stock changes	- 176		-3.9	2.9	3.8	3.0	-7.3	0.1	1.8	1.5	25									- 152		Stock changes
Total primary energy supply	1 572	-5.1	570	1 233	287	63	939	- 11	- 121	77	1 504	59			146	105	197	3.6		5 384	507	Total primary energy supply
Transfers			- 121	234					161	73										113		Transfers
Total transformation sector	-1 512	59	- 552	509	193	22	167	10	8.9	108	- 463	- 59			- 125	- 105	- 37		975	-1 311	- 325	Total transformation sector
Main activity producers	-1 384			- 11			-9.5	-1.1		-0.1	- 270	- 58			- 42	- 105	- 16		795	-1 091	- 221	Main activity producers
Autoproducers	- 12			- 32			- 30	-0.6		-0.7	- 193	-0.3			- 83		- 21		180	- 161	- 104	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 552	551	193	22	207	12	8.9	108										-1.5		Petroleum refineries
Coal transformation	- 117	59																		- 57		Coal transformation
Other transformation																						Other transformation
Losses & own use		- 34	-1.1	- 180			- 125	-1.9	-0.2	- 53	- 398								- 180	- 792		Losses & own use
Discrepancy	33		105	- 88	1.2	0.3	- 51	12	- 14	- 37	- 118									- 67		Discrepancy
Total final consumption	93	20		1 707	480	85	931	9.0	34	168	525				21		160	3.6	795	3 326	182	Total final consumption
Total final energy consumption	93	20		1 552	480	85	931	9.0	28	18	474				21		160	3.6	795	3 119	182	Total final energy consumption
Industry sector	93	20		190	0.5		161	2.3	8.2	18	264						108	3.6	283	962	108	Industry sector
Mining and quarrying	3.9	1.2		133			127	0.5	1.8	4.5	4.7								82	225		Mining and quarrying
Construction				25	0.1		24	0.4	0.2		2.4								7.3	35		Construction
Iron and steel	0.2	11		0.8			0.5	0.2		0.2	9.3								12	34		Iron and steel
Chemical & petrochemical	5.8	0.5		4.6			4.4	0.2		0.1	37						0.4	3.5	13	65	0.4	Chemical & petrochemical
Non-ferrous metals	54	4.0		10			1.8	0.2	0.7	7.7	119						1.7		115	304	1.7	Non-ferrous metals
Non-metallic minerals	17	0.1		6.9			1.2	0.6	3.8	1.4	42						3.2		11	80	3.2	Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery				0.7			0.5		0.2		0.5								4.8	6.0		Machinery
Food, beverages and tobacco	5.2			5.5	0.4		1.7	0.3	1.0	2.0	30						77	0.2	22	140	77	Food, beverages and tobacco
Pulp, paper and printing	2.0			2.0			0.1		0.1	1.8	13						15		12	43	15	Pulp, paper and printing
Wood and wood products	0.1			0.4			0.3				1.8						11		2.9	17	11	Wood and wood products
Textiles and leather	0.3			0.3				0.1	0.2		4.0								0.5	5.2		Textiles and leather
Non-specified industry	3.9	3.6		0.5			0.1		0.1	0.4	0.1								0.6	8.8		Non-specified industry
Transport sector				1 225	473	85	653	6.6	7.0		18								24	1 271	4.0	Transport sector
Domestic air transport				87	2.0	85														87		Domestic air transport
Road				1 049	460		582		6.7		0.8						4.0		0.5	1 054	4.0	Road
Rail				48			48													12	60	Rail
Inland waterways				31	11		14	6.1													31	Inland waterways
Non-specified transport				9.8	0.1		8.9	0.6	0.2		17								12	39		Non-specified transport
Other sector	0.1			137	6.9		116		13		192				21		48		488	887	70	Other sector
Residential				10					10		148				21		47		249	475	68	Residential
Commerce and public services	0.1			29			28		0.6		43				0.6		1.1		232	306	1.7	Commerce and public services
Agriculture				97	6.9		87		2.6		1.1								6.4	104		Agriculture
Fishery																						Fishery
Non-specified				1.3			1.2													1.3		Non-specified
Non-energy				156					5.8	150	52									207		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	133 592			4 664			4 405	172		87	49 280	16 297			34 687	29 108	3 190			270 818	83 282	Electricity generated (GWh)
Electricity plants	132 347			4 583			4 405	172		6	37 121	16 297			34 687	29 108	1 284			255 427	81 375	Electricity plants
CHP plants	1 245			81						81	12 159						1 906			15 391	1 906	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Australia

	Petajoules																									
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total																										
Primary energy supply	3 606	3 873	4 526	4 427	4 473	4 637	4 717	4 751	4 945	5 105	5 295	5 307	5 316	5 330	5 267	5 358	5 315	5 303	5 284	5 315	5 316	5 549	5 540	5 384	5 384	5 500
Production	6 595	7 825	9 779	10 433	10 638	10 568	10 643	11 102	11 298	11 980	12 008	12 364	13 538	13 096	13 437	14 501	15 411	16 033	16 204	16 852	17 403	18 652	18 950	17 852	18 248	17 676
Import	603	873	1 105	1 148	1 178	1 177	1 185	1 302	1 384	1 526	1 687	1 704	1 785	1 915	1 948	2 079	2 053	2 008	2 040	2 090	2 229	2 216	2 088	1 966	2 000	2 139
Export	-3 304	-4 609	-6 428	-6 749	-7 021	-6 987	-7 123	-7 530	-7 506	-8 048	-8 228	-8 522	-9 584	-9 481	-9 807	-10 903	-11 915	-12 476	-12 937	-13 414	-13 985	-15 009	-15 236	-14 462	-14 613	-13 936
Final energy consumption	2 207	2 430	2 728	2 752	2 773	2 770	2 830	2 815	2 844	2 931	2 979	2 974	3 016	3 091	3 117	3 154	3 149	3 132	3 141	3 177	3 222	3 193	3 085	3 094	3 119	3 227
Industry	809	882	996	1 022	975	923	942	932	928	955	970	947	946	974	988	996	989	944	947	952	962	953	941	966	962	968
Transport	884	966	1 074	1 065	1 089	1 099	1 138	1 136	1 167	1 200	1 225	1 220	1 256	1 289	1 298	1 320	1 322	1 322	1 338	1 356	1 388	1 386	1 292	1 249	1 271	1 377
Residential	314	348	379	386	399	399	396	389	393	408	411	425	429	439	438	439	432	429	428	437	433	441	457	467	475	465
Commerce & public services	146	174	211	211	236	255	261	261	265	278	282	291	292	296	297	306	312	339	323	321	326	319	311	299	306	316
Others	54	61	67	68	74	93	93	97	91	90	91	90	92	93	96	94	94	98	104	110	112	94	84	113	105	101
Coal and peat																										
Primary energy supply	1 493	1 590	2 023	2 022	2 042	2 031	2 103	2 155	2 183	2 190	2 172	2 211	2 124	2 027	1 991	1 857	1 758	1 819	1 878	2 004	1 940	1 962	1 793	1 694	1 572	1 469
Production	4 442	5 352	6 891	7 471	7 698	7 698	7 921	8 440	8 533	9 001	9 040	9 351	10 323	9 782	10 272	11 075	11 951	12 501	12 224	12 257	12 323	12 596	12 335	11 468	11 416	10 815
Import													1.4	5.3	2.6	1.5	3.1	3.5	0.8	2.8	6.0	4.9	8.0	3.9	2.9	4.0
Export	-2 800	-3 698	-5 083	-5 233	-5 545	-5 668	-5 951	-6 322	-6 313	-6 651	-6 865	-7 078	-7 961	-7 706	-8 148	-9 072	-10 144	-10 609	-10 532	-10 235	-10 318	-10 611	-10 483	-9 847	-9 671	-9 133
Transformation sector	-1 391	-1 535	-1 868	-1 922	-1 953	-1 919	-2 008	-2 042	-2 079	-2 098	-2 075	-2 122	-2 127	-2 039	-2 001	-1 867	-1 763	-1 823	-1 884	-1 851	-1 765	-1 715	-1 634	-1 585	-1 512	-1 446
Power generation	-1 206	-1 354	-1 722	-1 790	-1 823	-1 771	-1 855	-1 885	-1 924	-1 941	-1 918	-2 003	-1 960	-1 870	-1 857	-1 735	-1 642	-1 709	-1 756	-1 725	-1 642	-1 603	-1 516	-1 468	-1 396	-1 343
Final energy consumption	106	106	109	100	86	92	96	102	99	101	105	99	89	84	81	81	83	80	93	90	99	98	92	94	93	87
Industry	100	100	105	95	83	87	91	93	92	93	97	91	84	81	78	81	83	80	93	89	99	97	91	93	93	87
Transport	3.0	3.6	3.7	4.6	2.4	3.3	3.8	7.6	6.6	7.0	7.6	7.4	3.9	2.8	2.4											
Residential	0.3	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1															
Commerce & public services	3.5	1.7	1.0	1.2	0.4	1.2	1.3	1.3	0.9	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.2	0.2	0.3	0.5	0.5	0.5	0.8	0.2	0.1	0.1
Others																										
Coal and peat products																										
Primary energy supply	- 32	- 20	-7.0	-3.8	-7.1	- 15	- 14	- 19	- 19	- 17	- 15	-5.8	- 11	- 14	- 22	- 26	- 22	- 22	- 15	-7.5	-9.2	-5.6	- 11	- 10	-5.1	-3.1
Production																										
Import						1.5	0.4	0.6	1.4	1.2	0.2	0.2	0.4	1.5	1.0	1.1	2.2	3.5	6.0	5.0	6.4	12	11	8.6	12	11
Export	- 16	- 11	-0.6	-0.5	-3.7	-7.1	-7.0						- 10	- 14	- 23	- 29	- 23	- 25	- 20	- 13	- 16	- 18	- 22	- 19	- 17	- 14
Transformation sector	123	116	84	76	55	97	94	100	94	93	94	68	76	84	81	83	78	76	72	69	68	61	65	65	59	54
Power generation	-3.4	-1.8	-2.2	-3.2	-25	-6.2	-5.0	-5.3	-5.7	-5.8	-2.5	-4.5	-4.7	-4.3	-4.3	-1.1	-0.9	-0.7	-0.5	-0.2						
Final energy consumption	77	81	64	62	36	49	51	55	49	47	48	43	17	20	21	17	20	18	20	23	22	22	20	20	20	19
Industry	75	79	63	60	33	46	50	54	48	46	47	42	17	20	21	17	20	18	20	23	22	22	20	20	20	19
Transport																										
Residential	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
Commerce & public services	1.8	1.7	0.9	1.6	2.4	2.4	1.3	1.6	1.3	1.0	0.9	0.8														
Others																										
Crude oil & NGL																										
Primary energy supply	1 385	1 477	1 531	1 412	1 508	1 581	1 420	1 422	1 348	1 381	1 343	1 277	1 336	1 439	1 368	1 319	1 255	1 082	939	890	922	936	911	730	570	511
Production	1 215	1 188																								

Major economic indicators of Australia

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	17.07	17.28	17.48	17.63	17.81	18.00	19.03	19.27	19.50	19.72	19.93	20.18	20.45	20.83	21.25	21.69	22.03	22.34	22.73	23.13	23.48	23.82	24.19	24.59	24.96	25.33	25.65	25.69	26.01	26.65	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	629	627	630	655	681	708	873	890	926	954	995	1 026	1 054	1 094	1 133	1 155	1 180	1 209	1 256	1 289	1 322	1 351	1 389	1 420	1 461	1 493	1 491	1 523	1 587	1 642	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	618	615	618	643	669	695	857	874	909	937	976	1 007	1 035	1 074	1 112	1 133	1 159	1 187	1 233	1 265	1 298	1 326	1 363	1 394	1 434	1 465	1 464	1 494	1 558	1 611	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	311	326	326	312	323	368	416	380	396	468	615	696	748	855	1 056	929	1 149	1 399	1 548	1 577	1 468	1 351	1 207	1 326	1 428	1 393	1 328	1 557	1 691	1 728	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	36 886	36 280	36 029	37 156	38 264	39 311	45 860	46 191	47 486	48 394	49 902	50 853	51 554	52 532	53 336	53 237	53 579	54 111	55 258	55 728	56 328	56 739	57 401	57 751	58 531	58 925	58 133	59 277	61 010	61 598	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	36 205	35 610	35 364	36 470	37 558	38 585	45 013	45 339	46 610	47 501	48 981	49 915	50 602	51 562	52 352	52 254	52 590	53 113	54 238	54 699	55 288	55 692	56 342	56 685	57 450	57 837	57 060	58 182	59 884	60 461	GDP, PPP (constant 2021 USD)
Nominal (current USD)	18 249	18 860	18 624	17 700	18 130	20 448	21 870	19 696	20 302	23 718	30 837	34 480	36 596	41 052	49 701	42 817	52 145	62 606	68 073	68 191	62 544	56 739	49 888	53 902	57 196	54 973	51 792	60 608	64 997	64 836	Nominal (current USD)
Nominal GDP & its components (billion of current AUD) ¹¹																															Nominal GDP & its components (billion of current AUD) ¹¹
Gross domestic product	405	415	423	444	467	496	663	707	756	803	864	925	1 000	1 089	1 180	1 261	1 304	1 419	1 501	1 537	1 599	1 624	1 658	1 758	1 842	1 947	1 982	2 086	2 330	2 568	Gross domestic product
Household final consumption expenditure	221	235	247	256	267	284	380	410	433	464	495	526	560	609	659	680	721	764	804	839	876	911	945	977	1 018	1 054	1 036	1 060	1 140	1 292	Household final consumption expenditure
General government final consumption expenditure	71	77	83	86	88	92	123	131	139	148	158	170	183	198	213	232	246	265	284	290	300	312	331	351	369	397	434	468	515	547	General government final consumption expenditure
Gross fixed capital formation	112	102	97	104	112	124	172	164	184	209	230	250	278	298	333	348	353	369	411	428	430	426	421	423	451	456	452	472	540	598	Gross fixed capital formation
Stock change	5.2	-1.4	-2.1	0.5	1.4	4.5	2.1	1.3	0.8	-0.9	3.7	4.1	-2.8	1.1	4.6	-3.0	-3.3	6.2	4.6	0.4	-2.4	0.9	1.1	1.9	3.1	-0.5	-7.6	6.2	13.6	17.5	Stock change
Exports of goods and services	61	67	71	78	84	89	128	157	157	153	148	169	198	220	238	290	258	304	323	307	337	326	320	374	403	470	476	460	595	688	Exports of goods and services
Imports of goods and services	69	67	69	79	86	98	143	156	157	170	171	194	217	238	268	287	270	290	325	327	342	351	360	368	402	429	409	381	473	576	Imports of goods and services
Real GDP & its components (billion of 2019 AUD) ¹¹																															Real GDP & its components (billion of 2019 AUD) ¹¹
Gross Domestic Product	984	981	985	1 025	1 065	1 107	1 365	1 392	1 448	1 493	1 556	1 605	1 649	1 711	1 772	1 806	1 846	1 890	1 965	2 016	2 068	2 113	2 172	2 221	2 285	2 335	2 332	2 381	2 482	2 568	Gross Domestic Product
Household final consumption expenditure	475	480	491	500	511	534	656	678	698	728	767	801	828	871	913	916	948	987	1 015	1 034	1 058	1 086	1 115	1 143	1 175	1 194	1 155	1 166	1 216	1 292	Household final consumption expenditure
General government final consumption expenditure	177	183	188	193	195	203	243	248	256	263	275	284	292	301	311	324	329	339	352	354	360	368	386	405	419	440	472	503	538	547	General government final consumption expenditure
Gross fixed capital formation	194	176	169	180	190	211	287	264	288	325	353	374	405	424	461	468	476	493	551	567	556	535	517	517	542	536	524	545	583	598	Gross fixed capital formation
Stock change	10.2	-1.6	-4.7	1.2	2.5	6.1	3.5	3.2	1.5	-2.2	7.4	10.2	-3.8	2.3	6.7	-6.9	-3.4	6.5	7.9	0.0	-4.9	1.4	1.1	2.4	4.5	-1.0	-9.7	7.3	16.5	17.5	Stock change
Exports of goods and services	162	180	197	211	231	242	345	375	373	375	380	393	405	421	438	449	470	474	496	522	554	592	630	665	692	719	707	647	645	688	Exports of goods and services
Imports of goods and services	95	90	93	99	106	124	185	183	186	210	238	268	291	321	368	354	379	418	465	469	456	463	463	489	525	528	493	478	513	576	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	3.0	3.2	3.0	3.0	3.1	2.5	3.2	3.2	3.2	2.4	2.9	3.0	3.0	2.4	2.5	2.9	2.8	2.9	2.8	2.7	2.6	2.6	2.4	2.5	2.4	2.1	1.9	2.3	2.5	2.6	Agriculture, Fishery and Forestry
Industry	29	28	27	27	27	27	25	24	24	24	24	25	26	26	26	27	25	26	26	25	26	24	22	23	24	25	30	29	28	28	Industry
Services, etc.	59	61	62	62	62	62	64	64	64	64	64	64	64	64	64	64	66	65	65	66	66	67	68	67	67	66	62	62	63	64	Services, etc.
Industrial production index (2010=100) ¹²	52.7	53.0	54.5	57.2	59.1	61.6	76.7	76.9	78.1	83.7	86.5	91.7	99.0	103.0	91.4	100.0	104.7	102.9	102.4	103.8	103.1	107.7	110.6	112.1	112.1	117.5	113.4	113.8	112.9	112.9	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	39.8	41.9	42.8	42.7	47.5	53.1	63.9	63.4	65.0	70.4	86.6	106.1	123.4	141.4	187.3	154.3	212.6	271.7	256.7	253.0	240.0	187.7	192.5	231.1	257.1	271.0	250.8	344.9	412.7	371.4	Exports, f.o.b.
Imports, c.i.f.	42.0	41.6	43.8	45.6	53.4	61.3	71.5	63.9	72.7	89.1	109.4	125.3	139.3	165.3	200.3	165.5	201.6	243.7	260.9	242.1	237.4	208.5	196.3	228.8	235.4	221.6	211.8	261.2	309.2	287.4	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	0.5	3.7	1.8	0.1	-3.2	-4.2	-4.9	1.7	-5.6	-15.7	-18.6	-14.3	-12.1	-21.1	-7.8	-7.4	11.4	23.0	-8.3	7.3	2.0	-19.0	-5.8	10.5	20.8	47.6	39.3	85.9	111.7	83.4	Trade balance
Current account	-15.5	-10.6	-10.3	-9.3	-15.9	-18.7	-15.5	-8.0	-16.0	-29.3	-41.3	-43.3	-46.3	-64.7	-51.6	-48.5	-45.9	-45.5	-68.6	-51.0	-44.8	-57.1	-41.5	-36.1	-31.9	4.9	31.0	48.8	14.3	4.4	Current account
Overall balance	1.3	0.0	-4.9	0.2	-0.3	0.3	-2.1	0.6	-0.1	6.2	0.3	6.0	7.9	-35.7	3.9	12.4	-0.6	9.8	5.5	5.5	6.4	7.4	7.7	12.7	-11.5	3.6	-21.2	22.2	-0.4	-9.0	Overall balance
Foreign exchange rate (AUD/USD) ¹¹	1.28	1.28	1.36	1.47	1.37	1.35	1.72	1.93	1.84	1.54	1.36	1.31	1.33	1.20	1.19	1.28	1.09	0.97	0.97	1.04	1.11	1.33	1.35	1.30	1.34	1.44	1.45	1.33	1.44	1.51	Foreign exchange rate (AUD/USD) ¹¹
PPP conversion factor, GDP (AUD/USD) ¹¹	1.36	1.35	1.33	1.31	1.30	1.31	1.31	1.33	1.34	1.35	1.36	1.39	1.40	1.43	1.48	1.44	1.50	1.51	1.54	1.45	1.45	1.47	1.45	1.48	1.47	1.46	1.43	1.40	1.36	1.37	PPP conversion factor, GDP (AUD/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2021=100) ¹³	41.1	42.4	43.0	43.4	43.8	44.8	48.6	50.8	52.2	53.8	55.5	57.7	60.6	63.6	66.6	69.8	70.7	75.0	76.4	76.3	77.3	76.9	76.3	79.1	80.6	83.4	85.0	87.6	93.9	100.0	GDP Deflator (2021=100) ¹³
Producer Price Index (2010=100) ¹²	63.3	64.2	65.2	66.5	67.0	69.5	72.3	74.5	74.7	73.8	79.4	84.2	89.4	91.4	98.8	93.4	100.0	108.9	113.0	112.4	108.5	103.1	101.7	110.3	116.0	117.2	112.9	112.9	112.9	112.9	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	59.8	61.7	62.3	63.4	64.6	67.6	74.4	77.7	80.0	82.2	84.1	86.3	89.4	91.5	95.5	97.2	100.0	103.3	105.1	107.7	110.4	112.0	113.5	115.7	117.9	119.8	120.8	124.3	132.5	139.9	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	3.6	-0.4	0.4	4.0	4.0	3.9	3.9	2.0	4.0	3.1	4.2	3.2	2.8	3.8	3.6	1.9	2.2	2.4	3.9	2.6	2.6	2.2	2.8	2.3	2.9	2.2	-0.1	2.1	4.2	3.4	Real GDP
Population</																															

Energy prices in Australia
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency exchange rate	AUD / US Dollar	1.09	0.97	0.97	1.04	1.11	1.33	1.35	1.30	1.34	1.44	1.45	1.33	1.44	1.51
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	AUD/L	0.59	0.70	0.72	0.72	0.79	0.59	0.61	0.72	0.79	0.73	0.72	0.84	0.98	0.97
Naphtha															
Motor Gasoline															
Regular	AUD/L	1.53	1.43	1.43	1.45	1.47	1.28	1.17	1.29	1.43	1.42	1.24	1.49	1.84	1.90
Premium															
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil	AUD/L	1.28	1.48	1.50	1.52	1.55	1.29	1.18	1.30	1.50	1.47	1.25	1.42	2.05	1.99
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															
Industrial															
Commercial															
Residential	AUD/MWh					314.27	282.48	271.81	309.36	332.64	333.85	304.92			
Others															
Other energy products															

Brunei Darussalam

Energy balance table of Brunei Darussalam

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production			183								338									521		Production
Import	28		263	43	20			14		9.9										335		Import
Export			-142	-318	-58	-1.8	-120		-21	-118	-226									-686		Export
International marine bunkers																						International marine bunkers
International aviation bunkers				-2.7		-2.7														-2.7		International aviation bunkers
Stock changes			-2.9	0.2	0.1						0.6									-2.1		Stock changes
Total primary energy supply	28		302	- 278	- 38	-4.5	- 120	14	- 21	- 108	113									165		Total primary energy supply
Transfers			30	- 28	- 20	-0.1				-8.5										1.4		Transfers
Total transformation sector	-6.2		- 349	341	68	4.9	128		21	118	- 53								20	- 47		Total transformation sector
Main activity producers				-0.5			-0.5				- 48								15	- 34		Main activity producers
Autoproducers	-6.2										-5.3								5.5	-6.0		Autoproducers
Gas processing				0.8					0.8	22										23		Gas processing
Petroleum refineries			- 379	340	68	4.9	129		20	118										- 39		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation			29								- 21									8.1		Other transformation
Losses & own use	- 22										- 34								-8.4	- 65		Losses & own use
Discrepancy	0.4		18	-9.4	2.8	-0.2	2.3	- 14		-0.7	- 25								0.2	- 17		Discrepancy
Total final consumption				25	13	0.1	11		0.8	0.3	0.7								12	38		Total final consumption
Total final energy consumption				25	13	0.1	11		0.8	0.2	0.7								12	38		Total final energy consumption
Industry sector				5.8			5.6			0.2									0.7	6.4		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																			0.1	0.1		Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				5.8			5.6			0.2									0.6	6.3		Non-specified industry
Transport sector				18	13	0.1	5.3													18		Transport sector
Domestic air transport				0.1		0.1														0.1		Domestic air transport
Road				18	13		5.3													18		Road
Rail																						Rail
Inland waterways																						Inland waterways
Non-specified transport																						Non-specified transport
Other sector				0.8					0.8	0.7									11	13		Other sector
Residential				0.8					0.8	0.7									5.0	6.4		Residential
Commerce and public services																			6.3	6.3		Commerce and public services
Agriculture																						Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy				0.1						0.1										0.1		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	1 144			42							4 420				6					5 611	6	Electricity generated (GWh)
Electricity plants				42							2 582				6					2 629	6	Electricity plants
CHP plants	1 144										1 838									2 982		CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

2022Energy balance table of Brunei Darussalam

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production			203								360									563		Production
Import	28		307	25	21	1.7				3.1										361		Import
Export			- 133	- 357	- 74	-0.7	- 121		- 25	- 136	- 231									- 721		Export
International marine bunkers																						International marine bunkers
International aviation bunkers				-1.6		-1.6														-1.6		International aviation bunkers
Stock changes			-1.1								-0.1									-1.3		Stock changes
Total primary energy supply	28		376	- 333	- 53	-0.7	- 121		- 25	- 133	130									201		Total primary energy supply
Transfers			24	- 23	- 21					-2.5										0.7		Transfers
Total transformation sector	-6.5		- 401	378	84	2.1	130		26	135	- 65								20	- 74		Total transformation sector
Main activity producers				-0.5			-0.5				- 47								14	- 33		Main activity producers
Autoproducers	-6.5										-5.5								5.7	- 6.2		Autoproducers
Gas processing				0.8					0.8		6.2									6.9		Gas processing
Petroleum refineries			- 412	378	84	2.1	131		25	135										- 34		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation			11								- 19									-7.8		Other transformation
Losses & own use	- 22										- 35								-7.9	- 65		Losses & own use
Discrepancy	0.2		1.0	2.0	1.9	-1.2	0.7			0.7	-29								-0.3	- 26		Discrepancy
Total final consumption				23	12	0.1	10		0.7	0.3	0.7								12	36		Total final consumption
Total final energy consumption				23	12	0.1	10		0.7	0.1	0.7								12	36		Total final energy consumption
Industry sector				5.5			5.3			0.1									0.6	6.1		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																			0.1	0.1		Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				5.5			5.3			0.1									0.5	6.0		Non-specified industry
Transport sector				17	12	0.1	4.9													17		Transport sector
Domestic air transport				0.1		0.1														0.1		Domestic air transport
Road				17	12		4.9													17		Road
Rail																						Rail
Inland waterways																						Inland waterways
Non-specified transport																						Non-specified transport
Other sector				0.7					0.7	0.7									11	13		Other sector
Residential				0.7					0.7	0.7									5.1	6.5		Residential
Commerce and public services																			6.4	6.4		Commerce and public services
Agriculture																						Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy				0.2						0.2										0.2		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	1 208			46							4 344				5					5 602	5	Electricity generated (GWh)
Electricity plants				46							2 492				5					2 542	5	Electricity plants
CHP plants	1 208										1 852									3 060		CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:
1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Brunei Darussalam

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																											Total
Primary energy supply	48	106	127	123	111	120	118	120	130	130	128	121	127	157	151	128	144	150	151	187	178	186	153	172	201	165	Primary energy supply
Production	655	781	858	863	883	924	905	921	953	880	872	786	809	814	802	734	705	725	690	712	692	695	659	614	563	521	Production
Import	0.6	1.2	1.0	1.2	1.4	1.1	1.0	2.1	1.0	2.3	2.5	4.2	5.9	11	15	12	16	14	16	19	16	98	327	339	361	335	Import
Export	-605	-670	-734	-736	-772	-800	-782	-797	-823	-751	-739	-659	-690	-660	-661	-615	-572	-585	-554	-545	-518	-595	-818	-781	-721	-686	Export
Final energy consumption	16	23	24	25	26	25	27	28	28	30	31	32	34	36	38	37	38	38	36	38	39	38	37	36	36	38	Final energy consumption
Industry	2.6	3.8	3.0	2.5	2.8	2.5	2.4	2.7	3.0	3.1	3.7	4.7	5.4	6.3	7.2	5.9	5.2	5.9	4.9	6.3	5.9	6.4	5.6	5.9	6.1	6.4	Industry
Transport	8.1	11	12	12	13	13	14	14	15	16	16	16	17	18	19	19	19	19	18	19	19	19	17	16	17	18	Transport
Residential	4.2	4.7	4.6	4.9	4.8	4.8	5.0	5.7	5.6	6.0	6.2	6.4	6.5	6.7	6.5	6.4	6.3	6.4	6.5	6.2	6.4	6.4	6.5	6.7	6.5	6.4	Residential
Commerce & public services	1.0	3.1	4.9	5.1	5.3	4.6	5.7	4.6	4.6	4.9	5.0	5.0	5.1	5.2	5.3	5.4	6.5	6.6	6.2	6.1	6.4	6.7	7.0	7.2	6.4	6.3	Commerce & public services
Others																0.7	1.2			1.0	1.3		0.7				Others
Coal and peat																											Coal and peat
Primary energy supply																											Primary energy supply
Production																											Production
Import																											Import
Export																											Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption																											Final energy consumption
Industry																											Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply																											Primary energy supply
Production																											Production
Import																											Import
Export																											Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption																											Final energy consumption
Industry																											Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	4.7	13	28	28	30	31	22	23	33	35	37	30	27	16	6.9	15	4.6	8.5	2.3	3.0	2.5	66	335	359	376	302	Primary energy supply
Production	340	391	451	454	470	478	463	488	494	438	433	374	366	352	353	299	279	280	270	250	246	268	244	236	203	183	Production
Import		0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.7	0.6	0.5	0.6	0.5	0.3	0.4	0.3	0.4	0.2	0.1	0.4	66	281	310	307	263	Import
Export	-334	-375	-428	-424	-442	-447	-438	-462	-465	-404	-393	-338	-347	-334	-345	-286	-271	-276	-270	-250	-237	-271	-192	-186	-133	-142	Export
Transformation sector	-14	-17	-24	-24	-25	-26	-26	-26	-29	-29	-31	-27	-25	-12	-3.9	-15	-4.6	-8.5	1.9	-3.1	-2.5	-71	-366	-384	-401	-349	Transformation sector
Petroleum refineries	-14	-17	-24	-24	-25	-26	-26	-26	-29	-29	-31	-27	-25	-24	-18	-20	-16	-18	-11	-13	-16	-85	-380	-395	-412	-379	Petroleum refineries
Petroleum products																											Petroleum products
Primary energy supply	-1.2	-2.1	-2.1	-2.3	-2.5	-2.9	-2.9	-1.7	-3.3	-1.8	-1.9		0.5	4.3	11	8.1	13	9.5	12	16	12	-27	-320	-325	-333	-278	Primary energy supply
Import	0.6	1.0	0.6	0.8	1.0	0.7	0.6	1.6	0.4	1.6	1.9	3.7	5.3	10	15	12	16	13	16	19	16	25	18	0.3	25	43	Import
Export	-0.2													-1.1	-0.6	-0.4	-0.6	-0.4			-37	-319	-325	-357	-318	Export	
Transformation sector	13	20	21	21	22	23	23	23	24	25	25	24	24	21	16	19	14	16	11	10	14	60	374	365	378	341	Transformation sector
Power generation	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.6	-0.5	-0.4	-0.5	-0.5	-0.5	Power generation
Petroleum refineries	13	19	21	21	22	23	22	22	24	25	25	23	23	21	16	18	14	16	11	10	14	59	373	365	378	340	Petroleum refineries
Final energy consumption	10	15	14	14	15	16	16	17	18	19	20	20	22	24	26	25	25	23	23	26	26	25	24	22	23	25	Final energy consumption
Industry	1.7	2.7	1.9	1.6	1.7	1.8	1.6	1.9	2.3	2.4	3.0	3.9	4.6	5.5	6.4	5.1	4.5	5.2	4.3	5.8	5.2	5.6	5.1	5.3	5.5	5.8	Industry
Transport	8.1	11	12	12	13	13	14	14	15	16	16	16	17	18	19	19	19	19	18	19	19	19	17	16	17	18	Transport
Residential	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	Residential
Commerce & public services																											Commerce & public services
Others																0.7	1.2			1.0	1.3		0.7				Others
Gas																											Gas
Primary energy supply	45	95	101	97	83	93	99	98	100	96	93	91	100	137	133	105	127	132	137	168	163	140	111	109	130	113	Primary energy supply
Production	316	390	407	409	413	446	443	433	459	442	439	412	443	462	449	435	426	445	419	463	446	427	415	378	360	338	Production
Import																											Import
Export	-271	-295	-306	-312	-330	-353	-343	-334	-358	-347	-346	-321	-343	-325	-316	-329	-300	-309	-284	-295	-281	-286	-306	-270	-231	-226	Export
Transformation sector	-20	-35	-40	-41	-45	-46	-48	-47	-46	-45	-45	-48	-51	-84	-91	-56	-73	-69	-85	-106	-119	-106	-69	-64	-65	-53	Transformation sector
Power generation	-20	-35	-40	-41	-45	-46	-48	-47	-46	-45	-45	-48	-51	-49	-51	-49	-51	-52	-50	-52	-54	-53	-55	-57	-52	-53	Power generation
Final energy consumption	1.3	1.4	1.1	1.3	1.2	1.1	1.0	1.0	1.1	1.1	1.1	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.8	0.9	0.8	0.8	0.8	0.7	0.7	Final energy consumption
Industry																											Industry
Transport																											Transport
Residential	1.3	1.4	1.1	1.3	1.2	1.1	1.0	1.0	1.1	1.1	1.1	1.0	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.8	0.9	0.8	0.8	0.8	0.7	0.7	Residential
Commerce & public services																											Commerce & public services
Others																											Others
Electricity																											Electricity
Power generation	4.7	8.7	11	12	12	13	13	13	13	14	14	14	15	15	16	16	16	17	17	15	15	18	21	21	20	20	Power generation
Thermal	4.7	8.7	11	12	12	13	13	13	13	14	14	14	15	15	16	16	16	17	17	15	15	18	21	21	20	20	Thermal
Hydro																											Hydro
Nuclear																											Nuclear
Others																											Others
Final energy consumption	4.2	6.8	8.9	9.1	9.4	8.5	10	10	9.1	10	10	10	11	11	11	11	12	12	12	11	12	12	12	13	12	12	Final energy consumption
Industry	0.9	1.0	1.0	1.0	1.1	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.9	0.8	0.9	0.8	0.7	0.7	0.6	0.6	0.7	0.8	0.6	0.6	0.6	0.7	Industry
Transport																											Transport
Residential	2.4	2.6	2.9	3.0	3.0	3.1	3.3	4.1	3.8	4.1	4.3	4.6	4.8	5.0	4.8	4.8	4.8	4.9	5.0	4.6	4.7	4.8	4.9	5.1	5.1	5.0	Residential
Commerce & public services	1.0	3.1	4.9	5.1	5.3	4.6	5.7	4.6	4.6	4.9	5.0	5.0	5.1	5.2	5.3	5.4	6.5	6.6	6.2	6.1	6.4	6.7	7.0	7.2	6.4	6.3	Commerce & public services
Others																											Others

Major economic indicators of Brunei Darussalam

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Population (million) ¹¹	0.262	0.270	0.277	0.285	0.292	0.299	0.334	0.341	0.347	0.354	0.360	0.367	0.373	0.379	0.385	0.390	0.396	0.402	0.407	0.412	0.417	0.421	0.426	0.430	0.434	0.438	0.442	0.445	0.449	0.459	Population (million) ¹¹	
Gross domestic product ¹³																															Gross domestic product ¹³	
Real term, billion USD (constant 2015)	9.1	9.4	9.8	9.9	10.2	10.6	11.3	11.7	12.1	12.5	12.5	12.6	13.1	13.1	12.9	12.7	13.0	13.5	13.6	13.3	13.0	12.9	12.6	12.8	12.8	13.3	13.4	13.2	13.0	13.1	Real term, billion USD (constant 2015)	
GDP, billion USD (PPP, constant 2021)	18.4	19.0	19.9	20.0	20.6	21.5	23.0	23.6	24.5	25.3	25.4	25.5	26.6	26.6	26.1	25.7	26.3	27.3	27.6	27.0	26.3	26.2	25.6	25.9	25.9	26.9	27.2	26.8	34.8	35.2	GDP, billion USD (PPP, constant 2021)	
Nominal, billion USD (current)	3.5	3.7	4.2	4.1	4.1	4.7	6.0	5.6	5.8	6.6	7.9	9.5	11.5	12.2	14.4	10.7	13.7	18.5	19.0	18.1	17.1	12.9	11.4	12.1	13.6	13.5	12.0	14.0	16.7	15.1	Nominal, billion USD (current)	
GDP per capita ¹³																															GDP per capita ¹³	
Real term (constant 2015 USD)	34 723	34 762	35 425	34 622	34 827	35 516	33 986	34 219	34 857	35 203	34 751	34 290	35 213	34 715	33 526	32 450	32 811	33 577	33 456	32 342	31 156	30 681	29 601	29 696	29 438	30 313	30 402	29 673	28 954	28 646	Real term (constant 2015 USD)	
GDP, PPP (constant 2021 USD)	70 359	70 439	71 781	70 154	70 571	71 966	68 866	69 339	70 632	71 332	70 415	69 482	71 353	70 342	67 934	65 753	66 484	68 038	67 793	65 535	63 131	62 170	59 981	60 173	59 650	61 424	61 604	60 127	77 441	76 617	GDP, PPP (constant 2021 USD)	
Nominal (current USD)	13 441	13 717	15 081	14 421	14 000	15 828	17 972	16 437	16 817	18 521	21 839	25 991	30 768	32 337	37 428	27 498	34 610	46 139	46 844	43 950	41 036	30 681	26 762	28 187	31 241	30 748	27 179	31 449	37 152	32 891	Nominal (current USD)	
Nominal GDP & its components (billion of current BND) ¹¹																															Nominal GDP & its components (billion of current BND) ¹¹	
Gross domestic product	6.4	6.4	6.8	6.6	6.2	6.7	10	10	10	11	13	16	18	18	20	16	19	23	24	23	22	18	16	17	18	18	17	19	23	20	Gross domestic product	
Household final consumption expenditure	1.7	1.7	2.1	2.6	2.4	2.5	2.6	2.6	2.7	3.1	3.5	3.6	3.6	3.7	3.6	3.8	2.8	3.0	3.3	3.5	3.4	3.5	3.3	3.4	3.6	3.8	3.9	4.7	5.3	5.6	Household final consumption expenditure	
General government final consumption expenditure	1.4	1.4	1.6	1.7	1.7	1.8	2.7	3.0	2.8	2.7	2.9	2.9	3.3	4.2	3.5	3.6	4.1	4.4	4.4	4.6	4.6	4.5	4.1	4.4	4.4	4.6	4.2	4.2	4.6	4.6	General government final consumption expenditure	
Gross fixed capital formation	1.2	1.3	1.6	2.0	1.8	2.5	1.3	1.5	2.2	1.7	1.8	1.8	1.9	2.4	2.8	2.7	4.4	6.0	7.8	8.9	5.9	6.2	5.4	5.8	7.5	7.1	6.7	5.9	5.9	6.0	Gross fixed capital formation	
Stock change																															Stock change	
Exports of goods and services	3.9	4.3	3.9	3.6	3.2	4.0	7.0	7.0	7.0	7.9	9.2	11	13	13	16	11	13	16	17	15	15	9.3	7.8	8.3	9.5	11	9.5	15	20	16	Exports of goods and services	
Imports of goods and services	2.4	2.6	3.3	3.4	3.0	3.7	3.7	3.9	4.4	4.1	4.2	4.3	4.6	5.1	5.6	5.6	5.2	7.0	8.4	9.7	7.4	6.7	5.9	6.0	7.7	9.3	8.8	13	14	12	Imports of goods and services	
Real GDP & its components (billion of 2019 BND) ¹¹																															Real GDP & its components (billion of 2019 BND) ¹¹	
Gross Domestic Product	13	13	14	14	15	15	16	17	17	18	18	18	19	19	19	18	19	19	20	19	19	19	18	18	18	19	19	19	19	19	Gross Domestic Product	
Household final consumption expenditure	1.4	1.4	1.7	2.0	1.8	1.7	1.8	1.8	1.8	2.1	2.4	2.4	2.5	2.5	2.6	2.7	2.9	3.1	3.3	3.2	3.4	3.3	3.5	3.6	3.8	4.0	4.9	5.3	5.8	5.8	Household final consumption expenditure	
General government final consumption expenditure	2.2	2.2	2.3	2.4	2.4	2.5	2.7	3.0	2.9	2.8	3.0	2.9	3.3	3.8	3.8	4.0	4.1	4.4	4.4	4.5	4.6	4.5	4.2	4.5	4.5	4.6	4.2	4.3	4.6	4.5	General government final consumption expenditure	
Gross fixed capital formation	2.8	3.1	3.6	4.4	4.0	4.3	2.5	2.7	3.8	3.0	3.1	3.1	3.2	4.0	4.6	4.6	4.4	6.0	7.8	8.7	6.0	6.4	5.7	6.1	7.9	7.5	6.8	5.9	5.8	5.8	Gross fixed capital formation	
Stock change							N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.															Stock change	
Exports of goods and services	11	12	12	12	12	15	15	15	16	17	17	16	17	15	14	14	13	12	12	12	12	10	10	10	10	12	13	14	15	14	Exports of goods and services	
Imports of goods and services	2.8	3.2	4.0	4.2	3.8	4.5	3.5	3.6	4.1	3.8	3.7	4.0	4.2	4.8	5.3	5.2	5.2	7.0	8.4	9.7	6.7	5.9	6.0	6.1	7.8	8.9	8.7	11	12	11	Imports of goods and services	
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹	
Agriculture, Fishery and Forestry	0.6	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.8	0.8	0.9	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.9	Agriculture, Fishery and Forestry	
Industry	82.7	84.5	84.9	83.8	84.3	85.0	83.2	81.6	82.1	82.6	81.7	80.0	78.8	74.3	71.6	69.2	68.7	68.3	66.8	64.4	63.1	63.4	63.1	63.2	62.9	63.1	64.2	62.5	60.5	58.7	Industry	
Services, etc.	25.2	24.2	24.0	24.6	24.4	24.0	24.8	25.6	25.3	25.0	25.4	26.3	27.1	29.5	30.9	32.1	32.5	32.9	34.4	36.8	37.9	37.7	38.0	37.9	38.2	38.0	36.8	38.3	40.4	42.3	Services, etc.	
Industrial production index (2010=100) ¹²	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Industrial production index (2010=100) ¹²	
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹	
Exports, f.o.b.	2.2	2.7	2.4	2.2	2.2	2.4	3.9	3.6	3.7	4.4	5.1	6.2	7.6	7.7	10.3	7.2	8.9	12.5	13.0	11.4	10.5	6.4	4.9	5.6	6.6	7.0	6.6	11.1	14.2	11.2	Exports, f.o.b.	
Imports, c.i.f.	1.0	1.2	1.5	1.8	1.9	2.1	1.1	1.2	1.6	1.3	1.4	1.5	1.7	2.1	2.6	2.4	2.5	3.6	3.6	3.6	3.6	3.2	2.7	3.1	4.2	5.1	5.3	8.6	9.2	7.5	Imports, c.i.f.	
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²	
Trade balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2.6	2.2	3.2	3.7	4.8	6.0	5.7	7.8	4.9	6.2	8.6	8.8	6.9	7.4	2.9	2.2	2.4	2.4	2.2	1.4	2.7	5.2	3.8	Trade balance	
Current account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2.0	1.8	2.5	2.9	4.0	5.2	4.8	6.9	4.0	5.0	6.4	5.7	3.8	5.3	2.2	1.5	2.0	0.9	0.9	0.5	1.6	3.3	1.9	Current account	
Overall balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2.2	2.4	1.9	1.2	3.9	5.8	6.0	8.3	5.6	0.2	2.6	2.9	1.1	1.2	-2.4	-4.9	0.5	0.9	1.3	0.3	1.7	0.9	0.9	Overall balance	
Foreign exchange rate (BND/USD) ¹¹	1.81	1.73	1.63	1.62	1.53	1.42	1.72	1.79	1.79	1.74	1.69	1.66	1.59	1.51	1.42	1.45	1.36	1.26	1.25	1.25	1.27	1.37	1.38	1.38	1.35	1.36	1.38	1.34	1.38	1.34	Foreign exchange rate (BND/USD) ¹¹	
PPP conversion factor, GDP (BND/USD) ¹¹	0.44	0.42	0.41	0.39	0.35	0.35	0.47	0.43	0.43	0.44	0.50	0.58	0.62	0.61	0.67	0.52	0.60	0.71	0.68	0.67	0.65	0.69	0.67	0.65	0.69	0.66	0.58	0.64	0.62	0.52	PPP conversion factor, GDP (BND/USD) ¹¹	
Price Indices																															Price Indices	
GDP Deflator (2010=100) ¹³	48.8	47.4	48.2	46.8	42.7	43.9	63.4	59.8	60.1	63.7	73.9	87.7	96.5	97.6	110.0	85.7	100.0	120.2	121.6	118.2	116.0	95.6	86.8	91.1	99.5	96.2	85.8	99.0	123.0	107.2	GDP Deflator (2010=100) ¹³	
Producer Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	189.6	N.A.	N.A.	186.9	201.7	221.7	221.7	221.7	221.7	221.7	221.7	#	
Consumer Price Index (2010=100) ¹²	78.0	79.3	80.3	83.7	85.8	90.9	95.0	95.5	93.3	93.6	94.4	95.5	95.7	96.6	98.6	99.6	100.0	100.1	100.2	100.6	100.4	99.9	99.7	98.4	99.4	99.0	100.9	102.7	106.5	106.8	Consumer Price Index (2010=100) ¹²	
Growth rate (%) ¹³																															Growth rate (%) ¹³	
Real GDP	1.1	3.1	4.8	0.3	3.1	4.5	2.8	2.7	3.9	2.9	0.5	0.4	4.4	0.2	-1.9	-1.8	2.6	3.7	0.9	-2.1	-2.5	-0.4	-2.5	1.3	0.1	3.9	1.1	-1.6	-1.6	1.1	Real GDP	
Population	3.2	3.0	2.8	2.6	2.5	2.5	2.1	2.0	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.5	1.5	1.4	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.8	0.8	Population	
Price																															Price	
Producer prices	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	7.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	Producer prices
Consumer prices	2.1	1.6	1.3	4.3	2.5	6.0	1.6	0.6	-2.3	0.3	0.8	1.2	0.2	1.																		

Energy prices in Brunei Darussalam
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	BND / US Dollar				1.25	1.27	1.41	1.40	1.38	1.38	1.36	1.38	1.34	1.38	1.34
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite	USD/tonne										63.73	54.18	109.26	152.32	102.04
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil	USD/tonne										513.71	305.09	554.95	804.94	661.55
Natural Gas Liquids															
Ethane															
LPG	USD/tonne										527.90				
Naphtha	USD/tonne										595.27	461.88		769.74	708.75
Motor Gasoline	USD/tonne					0.79					381.02	725.55	1 003.47	833.57	
Regular	USD/L				0.69										
Premium	USD/L				0.76										
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	USD/L				0.77	0.75					244.08		978.23		
Other Kerosene	USD/L				0.77										
Gas/Diesel Oil	USD/L				0.78	0.76					0.39				
Fuel Oil	USD/tonne										298.62			520.51	
White Spirit SBP															
Lubricants	USD/L										2.16	2.61	2.77		
Bitumen	USD/L										0.49	0.53			
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															
Other Energy Products															

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	BND / US Dollar				1.25	1.27	1.41	1.40	1.38	1.38	1.36	1.38	1.34	1.38	1.34
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil	USD/barrel				115.03	104.44	53.89	44.63	55.93	73.17	68.57	43.11	72.07	107.69	87.14
Natural Gas Liquids															
Ethane															
LPG Cylinder 12 kg	BND/cylinder				10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Cylinder 44 kg	BND/cylinder				34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56
Naphtha															
Motor Gasoline RON97															
RON97	BND/L				0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
RON92	BND/L					0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
RON85	BND/L				0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
SVP Gasoline	BND/L											0.79	0.79	0.91	0.95
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel					0.98	0.95									
Other Kerosene					0.20	0.20			0.18						
Gas/Diesel Oil	BND/L				0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
SVP Diesel	BND/L											0.82	0.81	0.90	0.95
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas (export)	USD/million Btu				16.38	16.61	9.63	7.27	8.28	10.45	9.14	6.61	9.12	14.33	10.69
Compressed Natural Gas															
Electricity															
Industrial															
Commercial - The first 10 units	BND/kVA				0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Next 100 units	BND/kVA				0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Next 100 units	BND/kVA				0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Remaining units	BND/kVA				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Minimum charge	BND				0.20	0.20	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Residential - 1-600 kWh	BND/kWh				0.25		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
601-2000 kWh	BND/kWh				0.15		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
2001-4000 kWh	BND/kWh				0.10		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4001 kWh above	BND/kWh				0.05		0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Others (Government)	BND/kWh				0.10		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Other Energy Products															

Canada

Energy balance table of Canada

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production	1 131		12 326								7 361	1 299	971		27	146	516	16		23 793	1 987
Import	167	28	1 376	471	213	96	34	12		116	805						120		78	3 044	120
Export	- 975	-5.0	-8 923	-1 002	- 247	- 15	- 342	- 56		- 342	-2 916						- 79		- 179	-14 078	- 79
International marine bunkers				-8.2			-1.5	-6.8												-8.2	
International aviation bunkers				- 188	-0.1	- 188														- 188	
Stock changes	8.4		8.0	- 20	-7.5	-2.6	-6.1	4.4	-0.9	-7.1	- 246						-1.4			- 250	-1.4
Total primary energy supply	332	23	4 787	- 748	- 41	- 110	- 316	- 46	-0.9	- 233	5 004	1 299	971		27	146	556	16	- 101	12 312	2 027
Transfers			- 66	142		-3.1	108	- 87	299	- 175										76	
Total transformation sector	- 298	36	-4 643	4 522	1 322	224	1 385	209	69	1 314	-1 039	-1 299	- 971		- 25	- 146	- 113	-4.2	2 304	-1 677	-1 583
Main activity producers	- 223			- 41	-1.1		-9.3	- 16		- 14	- 606	-1 202	- 971		- 17	- 143	- 49	-4.2	2 074	-1 182	-1 411
Autoproducers		-1.6		- 17			-5.3	-2.3		-9.8	- 283	- 96			-8.5	-3.3	- 64		230	- 244	- 172
Gas processing																					
Petroleum refineries			-4 811	4 595	1 323	224	1 399	227	69	1 353										- 216	
Coal transformation	- 75	38																		- 37	
Other transformation			168	- 16						- 16	- 150									1.6	
Losses & own use				- 604	-0.2		- 98		-5.9	- 500	-1 635						-0.1		- 243	-2 482	-0.1
Discrepancy	-9.6	-2.6	- 78	311	140	3.2	- 41	- 49	- 105	362	- 205						- 30		- 26	- 40	- 30
Total final consumption	24	57		3 623	1 421	114	1 038	26	256	768	2 125				1.4		413	12	1 933	8 188	414
Total final energy consumption	22	56		2 710	1 421	114	1 038	26	75	36	2 002				1.4		413	12	1 933	7 150	414
Industry sector	21	56		198	37		116	15	9.1	21	713						218	12	690	1 908	218
Mining and quarrying		6.9		50			39	8.0	3.0	0.1	41								58	156	
Construction				79	11		63	0.2	5.0	0.1	20						1.8	4.8		106	1.8
Iron and steel	5.3	49		1.5	0.1		1.3			0.2	83						0.1		28	167	0.1
Chemical & petrochemical				1.5			1.2	0.2		0.1	145								84	230	
Non-ferrous metals	9.0	0.2		1.4			1.4				39						0.9		245	296	0.9
Non-metallic minerals	6.7			17				0.1		16	53						0.9	7.2	17	101	0.9
Transportation equipment											18								18	36	
Machinery											9.9								23	33	
Food, beverages and tobacco											80						0.6		37	117	0.6
Pulp, paper and printing				6.2			1.5	4.6			92						163		118	378	163
Wood and wood products				6.4			4.3	0.6	1.2	0.3	21						51		26	105	51
Textiles and leather											2.3								1.9	4.1	
Non-specified industry				35	26		4.7	0.8		3.4	110								34	179	
Transport sector				2 180	1 330	114	718	6.6	12		173						117		31	2 501	117
Domestic air transport				113	1.9	111														113	
Road				1 938	1 327		600		12		2.0						117		4.5	2 061	117
Rail				84	0.2		84													84	
Inland waterways				40	0.9		32	6.6												40	
Non-specified transport				5.3	0.2	2.8	2.3				171								26	203	
Other sector	0.6			332	54		204	4.7	54	16	1 116				1.4		78		1 213	2 740	79
Residential				51			35		13	2.6	551						77		637	1 316	77
Commerce and public services				52			6.8		32	13	520						0.6		537	1 110	0.6
Agriculture	0.6			229	54		162	4.6	8.4	0.2	45								39	313	
Fishery																					
Non-specified															1.4				0.4	1.8	1.4
Non-energy	2.7	0.2		913					181	732	123									1 039	
Electricity and heat output																					
Electricity generated (GWh)	23 333	215		4 684			1 561	1 188		1 249	96 299	360 699	89 047		7 071	40 506	10 560	477		632 891	418 836
Electricity plants	23 333	215		4 674			1 561	1 178		1 249	78 472	360 699	89 047		7 071	40 506	10 270	409		614 696	418 546
CHP plants				10				10			17 827						290	68		18 195	290
Heat generated (PJ)											18						6	2		26	6
Heat plants																	5	1		6	5
CHP plants											18						1	1		20	1

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Canada

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	1 097		12 115								7 201	1 432	952		22	142	541	15		23 516	2 136	Production
Import	143	29	1 420	465	220	83	40	15		106	737						88	50		2 932	88	Import
Export	- 919	-6.6	-8 768	- 960	- 238	- 15	- 329	- 45		- 332	-3 020						- 76		- 237	-13 987	- 76	Export
International marine bunkers				-8.2			-1.5	-6.8												-8.2		International marine bunkers
International aviation bunkers				- 158	-0.1	- 158														- 158		International aviation bunkers
Stock changes	-7.7		9.7	-1.4	4.2	1.3	1.5	-2.1	0.4	-6.7	59						-1.3			58	-1.3	Stock changes
Total primary energy supply	313	22	4 777	- 663	- 13	- 89	- 290	- 40	0.4	- 233	4 978	1 432	952		22	142	551	15	- 186	12 353	2 146	Total primary energy supply
Transfers			- 124	195		-2.1	98	- 75	278	- 104										71		Transfers
Total transformation sector	- 321	33	-4 535	4 367	1 288	196	1 390	204	69	1 220	- 925	-1 432	- 952		- 21	- 142	- 110	-4.1	2 395	-1 645	-1 705	Total transformation sector
Main activity producers	- 246			- 54	-1.1		-8.6	- 21		- 23	- 536	-1 341	- 952		- 14	- 139	- 47	-4.1	2 183	-1 151	-1 542	Main activity producers
Autoproducers		-1.2		- 18			-5.2	-2.7		-9.7	- 252	- 90			-6.2	-3.4	- 63		213	- 221	- 163	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-4 688	4 453	1 289	196	1 404	227	69	1 267										- 235		Petroleum refineries
Coal transformation	- 75	34																		- 40		Coal transformation
Other transformation			153	- 14						- 14	- 137									1.5		Other transformation
Losses & own use				- 583	-0.1		- 100		-4.9	- 478	-1 800						-0.1		- 245	-2 629	-0.1	Losses & own use
Discrepancy	33	2.1	- 118	288	116	-1.5	- 31	- 61	- 86	351	- 48						- 11		- 20	126	- 11	Discrepancy
Total final consumption	25	58		3 604	1 391	104	1 068	29	256	756	2 204				1.4		430	10	1 944	8 276	431	Total final consumption
Total final energy consumption	23	57		2 716	1 391	104	1 068	29	82	43	2 079				1.4		430	10	1 944	7 260	431	Total final energy consumption
Industry sector	22	57		211	38		120	17	9.6	26	699						246	10	696	1 942	246	Industry sector
Mining and quarrying		8.5		51			40	7.9	3.0	0.1	42								57	158		Mining and quarrying
Construction				82	11		65	0.3	5.2	0.1	20						1.6	3.5		107	1.6	Construction
Iron and steel	5.3	49		1.4			1.2			0.2	81						0.1		29	165	0.1	Iron and steel
Chemical & petrochemical				1.8			1.3	0.5		0.1	141								85	227		Chemical & petrochemical
Non-ferrous metals	8.7	0.3		1.3			1.3				39						1.0		242	292	1.0	Non-ferrous metals
Non-metallic minerals	7.5			21				0.2		21	48						1.1	7.0	16	101	1.1	Non-metallic minerals
Transportation equipment											17								16	33		Transportation equipment
Machinery											8.9								24	33		Machinery
Food, beverages and tobacco											78						0.6		37	116	0.6	Food, beverages and tobacco
Pulp, paper and printing				8.2			1.8	6.4			87						186		127	408	186	Pulp, paper and printing
Wood and wood products				7.1			4.6	0.8	1.4	0.3	19						55		25	107	55	Wood and wood products
Textiles and leather											2.4								1.9	4.3		Textiles and leather
Non-specified industry	0.7			38	26		5.2	1.3		5.0	115								37	190		Non-specified industry
Transport sector				2 162	1 300	104	740	6.2	11		181						103		30	2 478	103	Transport sector
Domestic air transport				103	1.8	102														103		Domestic air transport
Road				1 927	1 297		619		11		2.1						103		4.5	2 037	103	Road
Rail				86	0.2		86													86		Rail
Inland waterways				40	0.9		33	6.2												40		Inland waterways
Non-specified transport				5.3	0.3	2.7	2.3				179								26	210		Non-specified transport
Other sector	0.5			343	52		208	5.1	61	16	1 199				1.4		80		1 217	2 841	82	Other sector
Residential				58			40		16	2.4	606						80		645	1 388	80	Residential
Commerce and public services				57			7.2	0.1	36	14	548						0.6		534	1 139	0.6	Commerce and public services
Agriculture	0.5			228	52		161	5.0	9.1	0.2	45								38	312		Agriculture
Fishery																						Fishery
Non-specified															1.4				0.4	1.8	1.4	Non-specified
Non-energy	2.8	0.3		888					175	713	125									1 016		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	26 098	153		5 545			1 495	1 406		1 964	85 856	397 686	87 239		5 737	39 474	10 245	434		658 467	453 142	Electricity generated (GWh)
Electricity plants	26 098	153		5 535			1 495	1 396		1 964	71 020	397 686	87 239		5 737	39 474	9 954	367		643 263	452 851	Electricity plants
CHP plants				10				10			14 836						291	67		15 204	291	CHP plants
Heat generated (PJ)											17						6	2		25	6	Heat generated (PJ)
Heat plants																	5	1		6	5	Heat plants
CHP plants											17						1	1		19	1	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Canada

	Petajoules																									
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total																										
Primary energy supply	8 859	9 809	10 567	10 413	10 429	11 000	11 194	11 299	11 492	11 507	11 273	10 837	10 907	11 094	11 101	11 264	11 542	11 496	12 011	12 509	12 668	12 798	11 934	12 048	12 353	12 312
Production	11 588	14 752	15 643	15 816	16 109	16 200	16 717	16 762	17 477	17 620	17 148	16 456	16 748	17 319	17 826	18 647	19 511	19 681	20 295	21 625	22 517	22 590	21 739	22 552	23 516	23 793
Import	1 943	1 896	3 018	3 218	3 076	3 355	3 412	3 665	3 465	3 446	3 760	3 562	3 533	3 765	3 888	3 619	3 453	3 662	3 800	3 600	3 537	3 813	3 279	2 946	2 932	3 044
Export	-4 427	-6 907	-8 364	-8 610	-8 787	-8 774	-9 053	-9 085	-9 260	-9 727	-9 711	-9 296	-9 547	-10 010	-10 521	-11 020	-11 151	-11 528	-12 102	-12 572	-13 039	-13 510	-12 790	-13 497	-13 987	-14 078
Final energy consumption	6 007	6 526	6 765	6 530	6 916	7 112	7 103	7 033	6 834	7 070	6 984	6 701	6 768	6 996	6 906	7 111	7 220	7 112	7 119	7 367	7 602	7 516	6 851	6 992	7 260	7 150
Industry	1 979	2 150	2 270	2 152	2 244	2 323	2 385	2 098	2 010	2 004	1 895	1 728	1 756	1 828	1 830	1 858	1 873	1 826	1 894	1 950	1 966	1 971	1 817	1 888	1 942	1 908
Transport	1 805	2 000	2 183	2 149	2 312	2 342	2 304	2 359	2 343	2 379	2 466	2 434	2 379	2 466	2 489	2 558	2 547	2 540	2 535	2 599	2 689	2 633	2 223	2 348	2 478	2 501
Residential	1 316	1 357	1 308	1 253	1 294	1 338	1 320	1 339	1 294	1 406	1 410	1 392	1 332	1 413	1 352	1 420	1 466	1 420	1 361	1 406	1 463	1 400	1 369	1 346	1 388	1 316
Commerce & public services	770	859	827	817	919	959	943	970	918	951	968	966	947	991	954	986	1 037	1 017	1 016	1 092	1 151	1 191	1 135	1 093	1 139	1 110
Others	136	160	176	160	147	151	151	267	269	273	277	236	268	284	280	290	297	309	312	320	332	321	307	317	313	315
Coal and peat																										
Primary energy supply	1 024	1 051	1 322	1 291	1 252	1 238	1 189	1 236	1 235	1 241	1 114	907	941	855	800	791	822	745	705	714	566	486	373	438	313	332
Production	1 588	1 710	1 441	1 463	1 363	1 267	1 347	1 447	1 450	1 555	1 412	1 289	1 421	1 420	1 409	1 495	1 428	1 292	1 223	1 294	1 220	1 163	1 024	1 051	1 097	1 131
Import	390	269	614	634	543	537	456	510	495	431	477	311	312	248	263	215	201	196	164	195	199	214	160	164	143	167
Export	-892	-978	-799	-738	-669	-718	-645	-703	-691	-771	-805	-722	-842	-848	-870	-978	-857	-764	-760	-774	-801	-887	-801	-796	-919	-975
Transformation sector	-973	-985	-1 245	-1 225	-1 199	-1 185	-1 114	-1 098	-1 070	-1 164	-1 064	-895	-909	-844	-779	-750	-718	-664	-664	-661	-542	-520	-436	-388	-321	-298
Power generation	-836	-869	-1 126	-1 106	-1 080	-1 067	-990	-977	-947	-1 041	-943	-787	-799	-739	-664	-654	-632	-581	-583	-580	-451	-431	-353	-315	-246	-223
Final energy consumption	43	45	55	51	49	50	52	59	67	62	61	53	60	58	56	49	47	50	40	44	37	35	27	27	23	22
Industry	41	43	53	50	48	49	51	57	63	61	59	51	58	57	55	48	46	48	39	43	37	34	27	26	22	21
Transport																										
Residential	2.0	2.3	1.5	1.3	1.0	1.0	1.0	1.8	3.2	1.3	1.3	1.1	1.3	0.8	0.6	0.6	0.5	0.3	0.3	0.3						
Commerce & public services	0.2		0.1	0.3																						
Others										0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.5	0.5	0.6
Coal and peat products																										
Primary energy supply	-8.1	11	5.1	15	4.7	4.3	9.0	24	30	30	38	12	26	17	16	15	33	29	28	40	32	31	36	31	22	23
Production																										
Import	9.3	22	17	17	9.4	4.9	7.3	35	37	34	50	18	30	24	23	19	34	33	34	33	30	36	35	34	29	28
Export	-5.3	-9.1	-8.2	-2.1	-3.9	-1.8	-3.6	-6.6	-2.2	-4.9	-1.0	-5.8	-2.0	-8.2	-12	-0.8	-1.7	-2.1	-1.2	-0.1	-1.1	-1.1	-2.2	-2.6	-6.6	-5.0
Transformation sector	84	74	70	68	67	68	71	79	73	66	64	69	59	66	68	58	46	51	46	45	57	53	49	35	33	36
Power generation	-0.5	-1.4	-3.3	-3.2	-3.6	-4.0	-5.1	-0.8	-0.7	-0.5	-0.4	-0.3	-0.3	-0.4	-0.3	-0.3	-1.8	-1.8	-2.1	-1.6	-1.7	-1.6	-1.4	-1.2	-1.6	-1.6
Final energy consumption	77	88	85	77	74	75	82	85	85	79	76	64	68	79	76	61	62	58	63	65	69	66	59	59	57	56
Industry	77	88	85	77	74	75	82	85	85	79	76	64	68	79	76	61	62	58	63	65	69	66	59	59	57	56
Transport																										
Residential																										
Commerce & public services																										
Others																										
Crude oil & NGL																										
Primary energy supply	3 467	3 525	4 048	4 159	4 134	4 336	4 541	4 305	4 541	4 658	4 415	4 355	4 357	4 223	4 594	4 549	4 681	4 843	4 499	4 830	4 770	4 982	4 553	4 640	4 777	4 787
Production	3 942	4 750	5 377	5 452	5 714	6 038	6 251	5 9																		

Major economic indicators of Canada

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	27.69	28.04	28.37	28.68	29.00	29.30	30.69	31.02	31.36	31.64	31.94	32.24	32.57	32.89	33.25	33.63	34.00	34.34	34.71	35.08	35.44	35.70	36.11	36.55	37.07	37.60	38.01	38.23	38.94	40.08	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	878	860	867	891	931	956	1 164	1 185	1 220	1 242	1 281	1 322	1 356	1 385	1 398	1 358	1 400	1 444	1 469	1 503	1 546	1 557	1 572	1 620	1 665	1 696	1 610	1 691	1 761	1 806	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	957	937	946	971	1 014	1 042	1 269	1 291	1 330	1 354	1 396	1 441	1 479	1 509	1 524	1 480	1 526	1 574	1 601	1 639	1 686	1 697	1 714	1 766	1 815	1 849	1 755	1 843	2 215	2 305	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	596	613	594	579	580	606	745	739	761	896	1 027	1 173	1 319	1 469	1 553	1 375	1 617	1 793	1 828	1 847	1 806	1 557	1 528	1 649	1 725	1 744	1 648	2 001	2 161	2 173	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	31 707	30 663	30 575	31 045	32 087	32 612	37 923	38 185	38 912	39 258	40 094	40 990	41 646	42 098	42 063	40 369	41 156	42 038	42 316	42 846	43 635	43 596	43 537	44 325	44 917	45 113	42 366	44 235	45 227	45 048	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	34 563	33 424	33 328	33 841	34 977	35 549	41 339	41 624	42 416	42 793	43 704	44 681	45 397	45 890	45 851	44 004	44 862	45 823	46 127	46 705	47 565	47 522	47 458	48 317	48 962	49 176	46 182	48 218	56 873	57 517	GDP, PPP (constant 2021 USD)
Nominal (current USD)	21 526	21 846	20 950	20 187	19 998	20 679	24 271	23 821	24 255	28 300	32 144	36 383	40 504	44 660	46 711	40 876	47 562	52 224	52 669	52 635	50 956	43 596	42 316	45 129	46 548	46 374	43 350	52 359	55 509	54 220	Nominal (current USD)
Nominal GDP & its components (billion of current CAD) ¹¹																															Nominal GDP & its components (billion of current CAD) ¹¹
Gross domestic product	696	702	718	747	792	832	1 106	1 145	1 194	1 255	1 336	1 422	1 497	1 578	1 657	1 571	1 666	1 774	1 827	1 902	1 995	1 990	2 026	2 141	2 236	2 314	2 210	2 510	2 813	2 934	Gross domestic product
Household final consumption expenditure	388	402	415	431	448	464	603	631	669	699	731	772	814	863	902	905	950	992	1 024	1 065	1 113	1 151	1 185	1 241	1 294	1 336	1 264	1 365	1 513	1 595	Household final consumption expenditure
General government final consumption expenditure	157	169	176	178	180	180	211	223	236	250	259	271	288	304	327	345	358	375	385	394	404	416	426	443	462	478	504	549	582	613	General government final consumption expenditure
Gross fixed capital formation	151	142	139	139	154	153	217	231	238	251	279	310	342	368	389	351	391	417	448	460	487	475	461	486	507	522	520	603	655	670	Gross fixed capital formation
Stock change	-2.8	-6.5	-7.2	-1.4	1.0	8.6	11.2	-5.5	-2.8	5.7	6.8	11.3	10.6	9.0	10.0	-5.5	0.3	11.4	6.8	13.7	9.6	-0.6	-0.2	18.3	15.7	10.7	-27.9	-5.1	58.3	30.6	Stock change
Exports of goods and services	174	171	188	218	260	300	489	481	478	463	499	524	530	540	570	448	486	544	555	577	633	634	638	673	723	749	656	776	952	978	Exports of goods and services
Imports of goods and services	173	175	191	217	250	274	426	416	426	414	439	468	489	506	541	471	517	565	589	607	651	683	686	720	766	782	705	777	948	976	Imports of goods and services
Real GDP & its components (billion of 2019 CAD) ¹¹																															Real GDP & its components (billion of 2019 CAD) ¹¹
Gross Domestic Product	891	872	880	903	944	969	1 488	1 515	1 560	1 589	1 638	1 690	1 735	1 771	1 788	1 736	1 790	1 846	1 878	1 922	1 977	1 990	2 010	2 071	2 129	2 169	2 059	2 162	2 252	2 489	Gross Domestic Product
Household final consumption expenditure	583	577	585	596	614	627	753	771	802	824	849	882	919	960	989	990	1 025	1 048	1 068	1 096	1 125	1 151	1 175	1 218	1 250	1 269	1 192	1 251	1 315	1 338	Household final consumption expenditure
General government final consumption expenditure	296	303	306	305	302	299	314	324	332	341	348	351	361	370	384	394	403	408	411	408	410	416	423	432	446	450	456	485	496	503	General government final consumption expenditure
Gross fixed capital formation	233	223	216	214	228	225	303	317	321	337	366	399	424	438	445	395	440	460	483	490	501	475	453	468	480	483	472	507	496	544	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	245	249	268	297	335	364	554	538	544	535	565	577	582	589	562	489	522	547	563	577	613	634	643	652	677	695	634	643	668	739	Exports of goods and services
Imports of goods and services	227	233	245	263	285	302	449	427	435	453	492	528	556	588	593	520	591	625	648	661	678	683	683	715	739	741	672	725	781	823	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1.9	1.8	1.7	1.8	2.0	1.9	1.8	1.7	1.8	1.8	1.7	1.7	1.7	2.0	1.8	1.9	1.9	1.9	1.9	1.9	2.0	1.8	1.8	1.6	Agriculture, Fishery and Forestry
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	27.3	26.7	26.6	26.4	26.5	26.4	26.0	25.6	25.0	23.2	24.0	24.3	24.5	24.5	24.9	24.4	23.8	24.0	24.1	23.7	23.4	23.4	23.5	21.8	Industry
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	63.2	63.8	64.1	64.3	64.3	64.4	65.0	65.5	65.8	67.3	66.9	66.7	66.7	66.6	66.5	67.0	67.6	67.5	67.5	68.0	68.1	68.4	68.5	70.6	Services, etc.
Industrial production index (2010=100) ¹²	80.8	77.4	78.3	81.9	87.1	91.1	111.5	111.6	116.6	120.3	119.5	109.5	111.1	109.7	106.3	94.3	100.0	104.8	104.8	106.7	112.1	111.5	111.6	115.7	119.7	119.5	109.9	0.0	119.6	119.6	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	127.6	127.2	134.4	145.2	165.4	192.2	276.6	259.9	252.4	272.7	316.8	360.5	388.2	420.7	456.5	316.1	387.5	451.3	455.6	458.3	476.3	410.1	390.0	420.7	452.3	448.8	390.8	507.6	599.0	570.2	Exports, f.o.b.
Imports, c.i.f.	123.2	124.8	129.3	139.0	155.1	168.4	244.8	227.3	227.5	245.0	279.9	322.4	359.0	390.2	419.0	329.9	402.7	463.6	476.3	475.8	475.3	430.1	412.9	443.7	469.1	463.0	420.6	504.0	583.5	570.8	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	9.4	6.0	7.2	10.0	14.6	25.6	44.4	45.0	35.5	39.2	49.3	50.6	41.8	42.1	42.6	-6.2	-9.4	0.4	-12.5	-7.0	5.1	-18.6	-19.2	-19.1	-16.8	-14.2	-30.0	3.7	15.5	-0.5	Trade balance
Current account	-20.3	-22.9	-21.7	-22.4	-13.9	-5.1	18.5	15.8	12.5	10.4	23.2	21.9	18.0	11.1	3.2	-40.8	-58.2	-49.7	-64.6	-58.1	-41.9	-54.7	-47.3	-46.2	-41.2	-34.0	-35.4	-5.4	-7.6	-13.8	Current account
Overall balance	2.5	-2.1	-7.9	5.9	-0.9	-1.2	8.0	6.9	2.9	-4.8	-4.6	2.7	-1.3	1.3	6.0	11.1	3.8	12.3	0.8	3.7	7.0	6.0	3.8	-1.2	-6.9	3.9	2.1	16.6	5.2	3.1	Overall balance
Foreign exchange rate (CAD/USD) ¹¹	1.17	1.15	1.21	1.29	1.37	1.37	1.49	1.55	1.57	1.40	1.30	1.21	1.13	1.07	1.07	1.14	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33	1.34	0.00	1.30	1.35	Foreign exchange rate (CAD/USD) ¹¹
PPP conversion factor, GDP (CAD/USD) ¹¹	1.24	1.24	1.23	1.21	1.21	1.21	1.23	1.22	1.23	1.23	1.23	1.21	1.21	1.21	1.23	1.20	1.22	1.24	1.24	1.22	1.23	1.25	1.21	1.21	1.21	1.23	1.23	1.24	1.16	1.14	PPP conversion factor, GDP (CAD/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2015=100) ¹³	61.9	63.8	64.8	65.6	66.6	68.1	74.3	75.6	76.5	79.0	81.6	84.1	86.3	89.1	92.7	90.5	93.1	96.1	97.3	99.0	100.9	100.0	100.8	103.3	105.0	106.7	107.3	116.1	124.9	117.9	GDP Deflator (2015=100) ¹³
Producer Price Index (2010=100) ¹²	71.2	70.4	70.8	73.3	77.8	83.5	90.0	90.9	90.9	89.8	92.7	94.2	96.4	97.8	102.1	98.5	100.0	106.9	108.1	108.6	111.3	110.3	110.1	113.5	117.9	N.A.	N.A.	N.A.	N.A.	N.A.	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	67.3	71.1	72.1	73.5	73.6	75.2	81.9	84.0	85.9	88.2	89.9	91.9	93.7	95.7	98.0	98.3	100.0	102.9	104.5	105.5	107.5	108.7	110.2	112.0	114.5	116.8	117.6	121.6	129.9	134.9	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	0.2	-2.1	0.9	2.7	4.5	2.7	5.2	1.8	3.0	1.8	3.1	3.2	2.6	2.1	1.0	-2.9	3.1	3.1													

Energy prices in Canada
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	CAD / US Dollar	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33	1.34	1.25	1.30
Coal and Coal Products														
Coking Coal						109.86	140.91							
Anthracite	USD/tonne					127.37	178.58							
Other bituminous coal	USD/tonne					91.63	98.03							
Sub-bituminous Coal	USD/tonne					24.76	15.12							
Lignite	USD/tonne					47.92	58.26							
Peat	USD/tonne													
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Oil and Oil Products														
Crude Oil	CAD/imp BBL*	97.83	131.53	132.65	134.25	130.71	82.07	69.36	84.57	110.22	100.50	73.69	104.16	162.65
Natural Gas Liquids	CAD Cents/L					56.00	32.00							
Ethane	CAD Cents/L					10.00	9.00							
LPG	CAD Cents/L					39.00	21.00							
Naphtha	CAD Cents/L					72.00	72.00							
Motor Gasoline	CAD Cents/L					82.00	82.00							
Aviation Gasoline														
Gasoline Type Jet Fuel	USD/L					1.21	1.21							
Kerosene Type Jet Fuel	CAD Cents/L					81.00	81.00							
Other Kerosene	CAD Cents/L					88.00	88.00							
Gas/Diesel Oil	CAD Cents/L					87.00	87.00							
Fuel Oil	CAD Cents/L					67.00	67.00							
White Spirit SBP	USD/L					1.26	1.26							
Lubricants	USD/L					1.98	1.98							
Bitumen	CAD Cents/kg					64.00	64.00							
Paraffin Waxes														
Petroleum Coke	USD/tonne					174.97	174.97							
Natural Gas														
Natural Gas	CAD Cents/m³					25.00	13.64	11.79	13.77	14.97	12.53	9.41	16.38	28.58
Liquefied Natural Gas	USD/m³					4.34	4.07							
Compressed Natural Gas	CAD Cents/m³					23.00	15.00							
Electricity	USD/MWh					48.52	35.14							

* USD/BBL in 2011 and 2012

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	CAD / US Dollar	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33	1.34	1.25	1.30
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil	CAD/BBL					93.99	48.66							
Natural Gas Liquids														
Ethane	CAD/BBL					12.46	7.49							
Propane	CAD/BBL					44.42								
Butane	CAD/BBL					68.02								
Naphtha														
Motor Gasoline	CAD Cents/L		78.01	80.61	81.08	80.50	61.70							112.80
Aviation Gasoline														
Gasoline Type Jet Fuel							63.00							
Kerosene Type Jet Fuel						88.90	63.00							
Other Kerosene														
Gas/Diesel Oil	CAD Cents/L		83.64	85.28	87.78	91.30	65.90							140.00
Fuel Oil	CAD Cents/L		63.65	84.99	86.43	86.60	64.07							
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas	CAD Cents/m³					18.64	13.70							
Liquefied Natural Gas														
Compressed Natural Gas														
Electricity	CAD Cents/kWh					7.31	6.86							

Energy prices in Canada
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	CAD													
Exchange Rate	/ US Dollar	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33	1.34	1.25	1.30
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG	CAD Cents/L	67.00	72.00	73.00	71.00	78.80	59.13	58.00	72.00	88.00	89.00	89.00	94.00	124.00
Naphtha														
Motor Gasoline (regular)	CAD Cents/L	104.00	124.94	126.59	128.15	128.27	108.82	103.00	115.00	129.00	121.00	103.00	135.00	173.00
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene														
Gas/Diesel Oil	CAD Cents/L	101.00	125.00	125.00	128.53	134.10	109.22	98.00	110.00	129.00	123.00	104.00	130.00	198.00
Fuel Oil	CAD Cents/L	90.32	112.81	117.73	120.30	125.30	105.03	95.93	97.68	115.11	111.66	90.05	116.76	184.50
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas	CAD Cents/m ³		36.71	34.34	34.83	40.87	36.19	36.08	36.22	35.32	34.30	34.89	40.20	49.59
Liquefied Natural Gas (export)														
Compressed Natural Gas	CAD Cents/kg					118.74								
Electricity														
Industrial	CAD Cents/kWh	7.52	8.01	8.51	9.94	8.89	8.18	10.44	10.87	10.88	12.00	12.03	11.61	12.24
Commercial	CAD Cents/kWh					13.79	13.82							
Residential	CAD Cents/kWh	9.61	10.38	10.44	10.69	10.90	11.85	14.09	14.15	14.65	14.93	14.62	15.60	16.26
Others														
Other Energy Products														

Chile

Energy balance table of Chile

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	0.7		20								58	85		13	70	34	378			658	579	Production
Import	121		374	420	37	26	281	4.2	57	16	187									1 102		Import
Export		-1.1		- 54	-1.1		- 22	- 12	- 16	-2.6	-1.4									- 57		Export
International marine bunkers				-1.4							-1.4									-1.4		International marine bunkers
International aviation bunkers				- 29		- 29														- 29		International aviation bunkers
Stock changes	10	-0.8	-0.9	11	4.7	1.5	-1.0	-0.6	5.8	0.3	3.1						0.1			22	0.1	Stock changes
Total primary energy supply	132	-1.9	394	346	41	-1.8	257	-9.7	46	13	246	85		13	70	34	378			1 695	580	Total primary energy supply
Transfers			48	- 48	-8.2		- 14	-4.1	-0.9	- 21										0.3		Transfers
Total transformation sector	- 131	8.4	- 449	438	140	29	127	39	26	78	- 132	- 85		- 13	- 66	- 34	- 201		325	- 339	- 399	Total transformation sector
Main activity producers	- 119			- 12			-7.1		-0.1	-5.0	- 128	- 84		- 13	- 66	- 34	- 24		299	- 181	- 221	Main activity producers
Autoproducers				-4.0			-3.4	-0.6	-0.1		-4.4	-0.5			-0.6		- 177		26	- 161	- 178	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 450	455	140	29	137	40	26	83										4.1		Petroleum refineries
Coal transformation	- 12	8.4																		-4.0		Coal transformation
Other transformation			1.9																	1.9		Other transformation
Losses & own use		-6.4		- 12				-0.3	-3.0	-8.6	- 13								- 30	- 61		Losses & own use
Discrepancy	2.4	0.1	6.6	- 32	-4.8	-1.6	-9.4	-7.8	-0.2	-7.9	1.0						6.0		8.4	-7.2	6.0	Discrepancy
Total final consumption	3.1	0.1		693	168	25	361	17	68	54	102				3.6		183		304	1 288	186	Total final consumption
Total final energy consumption	3.1	0.1		652	168	25	361	17	68	13	71				3.6		183		304	1 217	186	Total final energy consumption
Industry sector	3.0	0.1		168		1.4	132	13	13	8.4	40						77		178	466	77	Industry sector
Mining and quarrying	0.8			113		1.4	107	3.1	1.0	0.6	8.3								109	231		Mining and quarrying
Construction				8.1			7.1	0.3	0.8		1.4								0.4	10.0		Construction
Iron and steel	0.1			0.5			0.4		0.1		0.6								2.3	3.4		Iron and steel
Chemical & petrochemical											4.5								0.1	4.6		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals				7.9			0.2	0.1	0.1	7.5	0.3								1.9	10		Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco	1.2	0.1															0.5			1.8	0.5	Food, beverages and tobacco
Pulp, paper and printing				10			2.0	7.5	0.5		6.5						64		21	102	64	Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	0.9			28			16	2.0	10	0.3	18						13		43	103	13	Non-specified industry
Transport sector				394	168	24	200	2.2	0.9	0.2	0.6								4.7	400		Transport sector
Domestic air transport				24	0.2	24														24		Domestic air transport
Road				357	168		189		0.9	0.2	0.6								2.5	360		Road
Rail				1.9			1.9												2.1	4.0		Rail
Inland waterways				11			9.2	2.2												11		Inland waterways
Non-specified transport																			0.1	0.1		Non-specified transport
Other sector	0.2			90		0.1	29	2.0	54	4.4	31				3.6		106		121	351	109	Other sector
Residential				45					41	4.3	23						105		64	237	105	Residential
Commerce and public services				29		0.1	18		11	0.1	6.4						0.5		46	83	0.5	Commerce and public services
Agriculture				7.2			4.5	0.2	2.5		0.9						0.2		10	18	0.2	Agriculture
Fishery	0.2			8.5			6.2	1.8	0.5		0.5								1.2	10		Fishery
Non-specified															3.6					3.6	3.6	Non-specified
Non-energy				41						41	30									71		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	14 502			1 631			1 226	19	2	383	16 763	23 524		368	18 438	9 391	5 708			90 324	57 428	Electricity generated (GWh)
Electricity plants	14 502			1 631			1 226	19	2	383	16 763	23 524		368	18 438	9 391				84 617	51 721	Electricity plants
CHP plants																	5 708			5 708	5 708	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Chile

2022

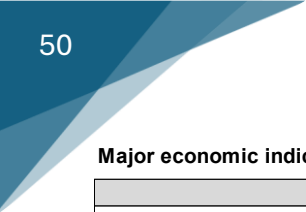
	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	0.4		18								46	74		17	62	32	333			582	518	Production
Import	216	0.1	309	484	72	25	315	0.5	61	9.4	194									1 202		Import
Export		-0.8		- 43			- 11	- 18	- 12	-1.4										- 43		Export
International marine bunkers				-1.9				-1.9												-1.9		International marine bunkers
International aviation bunkers				- 26		- 26														- 26		International aviation bunkers
Stock changes	5.7	-1.2	2.9	- 12	- 11	-0.4	-3.4	1.5	0.3	0.9	-4.9						0.9			-8.4	0.9	Stock changes
Total primary energy supply	222	-1.9	330	401	61	-1.6	301	- 18	49	8.9	234	74		17	62	32	334			1 704	519	Total primary energy supply
Transfers			53	- 52	-8.3		- 20	-0.8	0.4	- 24										0.7		Transfers
Total transformation sector	- 224	9.3	- 395	355	109	23	95	37	22	69	- 131	- 74		- 17	- 59	- 32	- 190		327	- 432	- 373	Total transformation sector
Main activity producers	- 210			- 18			- 15		-0.1	-3.8	- 126	- 74		- 17	- 58	- 32	- 24		303	- 255	- 204	Main activity producers
Autoproducers				-4.8			-3.9	-0.9			-4.9	-0.7			-0.8		- 167		23	- 155	- 168	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 397	379	109	23	114	38	22	73										- 18		Petroleum refineries
Coal transformation	- 14	9.3																		-5.1		Coal transformation
Other transformation			1.6																	1.6		Other transformation
Losses & own use		-6.3		- 11				-0.2	-2.5	-8.5	- 12						-0.4		- 26	- 57	-0.4	Losses & own use
Discrepancy	10	0.1	13	-0.6	4.7	0.8	-6.0	0.5	2.8	-3.4	-2.0						24		- 15	31	24	Discrepancy
Total final consumption	8.4	1.2		693	167	23	370	19	72	43	89				3.1		167		286	1 248	170	Total final consumption
Total final energy consumption	8.4	1.2		663	167	23	370	19	72	13	75				3.1		167		286	1 203	170	Total final energy consumption
Industry sector	7.8	1.2		162		1.2	127	14	12	8.2	44						60		169	443	60	Industry sector
Mining and quarrying	1.5			108		1.0	103	2.9	0.8	0.6	9.4						0.1		106	225	0.1	Mining and quarrying
Construction				7.8			7.0	0.2	0.6		1.9								0.4	10		Construction
Iron and steel		1.1		0.5			0.4		0.1		0.6								2.3	4.6		Iron and steel
Chemical & petrochemical											5.2								0.1	5.3		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	1.1			7.4				0.1		7.3	0.3							2.0		11		Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco	1.7	0.1		0.4			0.4	0.1									0.4			2.7	0.4	Food, beverages and tobacco
Pulp, paper and printing				9.9			1.4	8.0	0.5		5.4						47		20	82	47	Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	3.4			28		0.2	15	2.5	9.4	0.3	21						12		38	102	12	Non-specified industry
Transport sector				411	167	21	219	3.0	0.8	0.3	0.3								5.4	417		Transport sector
Domestic air transport				21	0.1	21														21		Domestic air transport
Road				378	167		210		0.8	0.3	0.3								3.5	382		Road
Rail				2.0			2.0												1.8	3.9		Rail
Inland waterways				9.9			6.9	3.0												9.9		Inland waterways
Non-specified transport																			0.1	0.1		Non-specified transport
Other sector	0.6			90		0.2	24	2.1	59	4.8	30				3.1		107		111	343	110	Other sector
Residential				50					46	4.7	23						106		54	233	106	Residential
Commerce and public services				26		0.2	15	0.1	11	0.1	6.3						0.6		46	79	0.6	Commerce and public services
Agriculture				6.1			3.7	0.2	2.2		0.8						0.3		11	18	0.3	Agriculture
Fishery	0.6			7.3			5.1	1.8	0.4		0.4								1.2	9.5		Fishery
Non-specified															3.1					3.1	3.1	Non-specified
Non-energy				30						30	15									44		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	21 517			2 737			2 422	26	6	284	16 088	20 684		467	15 714	8 893	4 595			90 695	50 353	Electricity generated (GWh)
Electricity plants	21 517			2 737			2 422	26	6	284	16 088	20 684		467	15 714	8 893				86 100	45 758	Electricity plants
CHP plants																	4 595			4 595	4 595	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Chile

		Pétajoules																										
		1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total	Primary energy supply	587	768	1 054	1 034	1 071	1 082	1 152	1 188	1 236	1 282	1 270	1 236	1 292	1 407	1 558	1 612	1 456	1 487	1 584	1 605	1 636	1 732	1 578	1 656	1 704	1 695	Total
	Production	332	348	359	380	380	359	358	391	403	392	407	427	386	414	545	611	518	506	525	543	571	572	525	543	582	658	Primary energy supply
	Import	303	458	780	755	782	842	930	931	985	1 051	978	915	960	1 066	1 082	1 123	1 044	1 050	1 146	1 143	1 152	1 222	1 082	1 180	1 202	1 102	Import
	Export	-8.8	-4.7	-37	-53	-43	-71	-62	-73	-84	-52	-54	-47	-26	-26	-37	-61	-65	-36	-50	-45	-45	-23	-29	-39	-43	-57	Export
	Final energy consumption	426	598	753	754	762	761	797	813	844	887	904	902	956	1 020	1 014	1 087	1 014	1 038	1 086	1 103	1 146	1 150	1 087	1 114	1 203	1 217	Final energy consumption
	Industry	143	202	278	285	284	289	302	305	336	349	354	343	365	399	380	416	438	439	444	424	443	442	431	415	443	466	Industry
	Transport	128	191	237	225	231	228	236	258	254	275	286	289	299	304	312	341	331	354	370	383	397	403	357	390	417	400	Transport
	Residential	131	172	204	211	209	204	210	205	208	214	210	214	223	234	250	256	170	166	183	184	193	194	201	202	233	237	Residential
	Commerce & public services	20	27	26	27	29	34	39	39	41	43	47	48	57	66	60	64	65	67	75	84	80	79	68	78	79	83	Commerce & public services
	Others	5.3	5.7	8.0	6.9	8.5	6.6	10	5.7	5.0	6.3	6.6	7.3	12	16	13	10	10	11	13	29	33	31	30	27	31	32	Others
Coal and peat	Primary energy supply	104	94	128	100	101	97	113	112	138	138	182	148	188	226	255	271	260	277	300	309	300	345	285	266	222	132	Coal and peat
	Production	61	29	10	16	12	16	5.3	11	11	4.4	11	10	11	10	12	51	70	53	42	41	38	24	8.0	0.7	0.4	0.7	Primary energy supply
	Import	46	61	122	79	82	81	108	100	126	163	172	140	159	227	248	258	236	238	278	280	275	314	266	273	216	121	Production
	Export																-21	-37	-14	-15	-15	-7.0						Export
	Transformation sector	-84	-78	-107	-73	-80	-78	-92	-92	-119	-126	-158	-156	-176	-220	-257	-294	-255	-290	-307	-304	-294	-336	-309	-268	-224	-131	Transformation sector
	Power generation	-70	-58	-87	-53	-61	-58	-71	-72	-99	-107	-138	-139	-161	-200	-237	-278	-236	-275	-291	-290	-280	-320	-295	-253	-210	-119	Power generation
	Final energy consumption	21	16	21	27	21	18	21	18	25	13	16	5.6	14	8.9	7.4	3.7	5.7	6.7	5.7	9.1	6.7	6.0	5.9	6.6	8.4	3.1	Final energy consumption
	Industry	18	15	20	27	21	18	20	17	24	13	15	5.2	14	8.8	7.3	3.6	5.6	6.6	5.7	9.0	6.6	6.0	5.8	6.6	7.8	3.0	Industry
	Transport																											Transport
	Residential	0.6	0.3																									Residential
	Commerce & public services	0.1		0.1		0.3		0.2	0.1	0.2	0.2	0.2	0.1					0.1	0.1									Commerce & public services
	Others	1.6	1.3	0.4	0.4	0.4	0.3	1.1	0.5	0.6	0.3	0.5	0.3	0.2	0.1	0.1	0.1			0.1	0.1	0.1		0.1		0.6	0.2	Others
Coal and peat products	Primary energy supply	1.0	3.7	0.8	-0.1	0.4	3.5	0.6	1.1	1.0	-1.4	2.1		-1.2	0.9	2.9	0.2	-3.0	-1.5	-2.1	-1.4	-2.4	-0.6	-3.1	-1.5	-1.9	-1.9	Coal and peat products
	Production																											Primary energy supply
	Import	1.2	1.4	0.7	1.0	3.2	7.9	1.3	1.9		0.9	1.7		0.9	1.6	1.0	0.1	0.1								0.1		Production
	Export		-0.5	-1.1		-3.8	-1.9	-1.1	-1.1	-0.2	-1.3	-0.4					-4.3	-1.1	-4.2	-1.5	-0.9	-1.5	-3.7	-1.7	-0.8	-1.1		Export
	Transformation sector	6.5	11	9.4	10	9.1	8.6	11	11	12	13	11	10	9.3	11	7.9	11	11	10	11	10	11	11	10	8.9	9.3	8.4	Transformation sector
	Power generation																											Power generation
	Final energy consumption	3.5	9.0	4.4	5.6	4.9	8.0	4.9	6.7	6.0	5.3	4.6	4.8	3.1	5.3	0.6	3.4	0.3	2.1	3.1	2.9	3.0	3.7	0.2	0.4	1.2	0.1	Final energy consumption
	Industry	3.5	9.0	4.4	5.6	4.9	8.0	4.9	6.7	6.0	5.3	4.6	4.8	3.1	5.3	0.6	3.4	0.3	2.1	3.1	2.9	3.0	3.7	0.2	0.4	1.2	0.1	Industry
	Transport																											Transport
	Residential																											Residential
	Commerce & public services																											Commerce & public services
	Others																											Others
Crude oil & NGL	Primary energy supply	275	352	426	434	426	463	478	456	498	478	468	454	388	418	398	418	400	375	373	385	397	431	337	363	330	394	Crude oil & NGL
	Production	49	28	18	20	18	16	16	15	15	25	25	30	26	27	22	23	18	12	11	13	17	22	17	16	18	20	Primary energy supply
	Import	233	327	418	423	413	441	449	441	479	466	435	428	363	388	371	404	381	364	360	373	377	410	318	348	309	374	Production
	Export																											Export
	Transformation sector	-263	-341	-419	-425	-417	-454	-470	-471	-533	-502	-492	-499	-414	-457	-447	-443	-445	-432	-424	-422	-440	-469	-362	-416	-395	-449	Transformation sector
	Petroleum refineries	-263	-341	-419	-425	-417	-454	-470	-471	-533	-502	-492	-499	-414	-458	-447	-445	-445	-432	-424	-423	-440	-469	-362	-416	-397	-450	Petroleum refineries
Petroleum products	Primary energy supply	-4.2	40	13	-25	9.5	-26	-19	28	16	200	214	189	240	244	255	246	245	265	302	284	288	262	299	322	401	346	Petroleum products
	Import	23	69	81	63	93	91	125	159	169	317	336	291	307	306	324	322	305	316	354	343	356	329	339	380	484	420	Primary energy supply
	Export	-8.8	-1.7	-36	-53	-39	-69	-61	-72	-84	-51	-54	-47	-26	-26	-37	-39	-24	-20	-19	-21	-31	-22	-25	-37	-43	-54	Import
	Transformation sector	241	320	389	413	387	427	433	422	466	334	333	326	298	317	310	351	373	383	373	393	402	428	350	378	355	438	Transformation sector
	Power generation	-20	-21	-19	-14	-17	-23	-34	-41	-32	-131	-131	-104	-73	-60	-76	-50	-41	-32	-32	-22	-17	-16	-16	-27	-23	-16	Power generation
	Petroleum refineries	263	343	408	427	405	452	467	464	499	468	467	433	372	382	388	403	414	415	405	415	419	444	367	406	379	455	Petroleum refineries
	Final energy consumption	222	334	381	365	366	360	372	393	403	459	477	478	494	522	507	548	547	575	607	623	639	640	589	629	663	652	Final energy consumption
	Industry	56	87	86	86	82	85	82	87	103	131	135	132	127	135	123	139	160	165	163	151	151	150	151	153	162	168	Industry
	Transport	127	190	236	223	230	226	234	256	252	273	284	286	297	302	309	338	326	349	365	379	392	398	352	386	411	394	Transport
	Residential	32	45	46	45	42	36	39	37	37	40	37	40	39	42	41	43	38	34	42	44	46	46	48	50	50	45	Residential
	Commerce & public services	5.1	7.3	6.7	5.6	6.5	10	11	10	8.7	10	14	14	19	27	21	19	15	18	26	30	30	28	22	26	26	29	Commerce & public services
	Others	3.2	4.0	7.0	5.4	6.2	3.8	6.1	4.1	2.8	4.6	5.3	6.1	12	15	12	8.8	8.1	8.8	11	18	19	19	17	14	13	16	Others
Gas	Primary energy supply	48	48	218	247	247	270	294	285	262	160	88	117	187	191	179	170	152	167	182	182	183	220	202	221	234	246	Gas
	Production	59	60	67	71	69	58	58	67	65	62	61	65	65	52	43	34	28	35	42	43	44	54	41	42	46	58	Primary energy supply
	Import			154	184	184	214	239	221	202	98	27	51	126	139	138	137	122	131	153	147	145	169	159	178	194	187	Production
	Export		-2.4																-13	-7.4	-5.6						-1.4	Export
	Transformation sector	-0.6	-0.5	-70	-94	-83	-107	-122	-114	-86	-38	-19	-28	-73	-97	-100	-87	-71	-81	-89	-97	-91	-110	-106	-120	-131	-132	Transformation sector
	Power generation	-2.6	-3.1	-69	-94	-83	-107	-121	-113	-85	-38	-20	-32	-73	-101	-101	-87	-71	-81	-89	-95	-91	-110	-106	-120	-131	-132	Power generation
	Final energy consumption	8.7	11	43	48	53	55	59	53	50	33	24	29	69	64	50	52	50	58	60	62	65	67	64	68	75	71	Final energy consumption
	Industry	0.1																										



Major economic indicators of Chile

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ^{*1}	13.34	13.56	13.78	14.00	14.21	14.42	15.35	15.52	15.69	15.86	16.02	16.18	16.33	16.50	16.66	16.83	17.00	17.17	17.34	17.51	17.69	17.87	18.08	18.37	18.70	19.04	19.30	19.49	19.60	19.66	Population (million) ^{*1}
Gross domestic product ^{*3}																															Gross domestic product ^{*3}
Real term, billion USD (constant 2015)	72	77	86	92	96	105	131	135	140	146	156	165	175	184	191	189	200	213	226	233	237	242	247	250	260	262	246	275	279	281	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	129	140	155	165	174	189	237	244	252	264	281	298	316	332	345	341	361	383	407	420	428	437	445	451	469	472	443	495	578	581	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	33	38	46	49	57	73	78	72	70	77	99	122	154	173	180	171	217	251	267	277	259	242	249	276	295	278	254	317	302	336	Nominal, billion USD (current)
GDP per capita ^{*3}																															GDP per capita ^{*3}
Real term (constant 2015 USD)	5 381	5 708	6 244	6 552	6 779	7 279	8 551	8 723	8 905	9 228	9 746	10 215	10 727	11 171	11 479	11 235	11 773	12 382	13 017	13 319	13 422	13 570	13 645	13 616	13 907	13 761	12 741	14 096	14 235	14 280	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	29 481	29 564	GDP, PPP (constant 2021 USD)
Nominal (current USD)	2 482	2 790	3 335	3 522	4 012	5 095	5 097	4 607	4 479	4 824	6 186	7 562	9 418	10 461	10 783	10 183	12 768	14 629	15 406	15 833	14 666	13 570	13 786	15 046	15 796	14 627	13 165	16 247	15 411	17 067	Nominal (current USD)
Nominal GDP & its components (billion of current CLP) ^{*1}																															Nominal GDP & its components (billion of current CLP) ^{*1}
Gross domestic product	10 096	13 213	16 666	19 925	23 954	29 142	42 215	45 409	48 429	52 897	60 392	68 468	81 578	90 159	93 867	96 138	110 778	121 509	129 973	137 309	147 951	158 623	168 765	179 315	189 435	195 752	201 429	240 371	263 843	281 857	Gross domestic product
Household final consumption expenditure	6 246	8 365	10 858	13 132	15 483	18 230	26 225	28 025	29 596	31 735	34 933	39 362	43 641	48 527	54 621	54 478	62 687	70 651	77 136	83 327	90 609	97 990	104 904	111 315	117 562	120 583	117 610	148 210	168 052	170 358	Household final consumption expenditure
General government final consumption expenditure	985	1 277	1 612	1 999	2 383	2 864	5 315	5 741	6 174	6 442	6 903	7 500	8 400	9 508	10 574	12 372	13 898	14 959	16 020	17 556	19 569	21 560	24 205	26 267	28 143	29 826	32 254	35 229	38 720	43 122	General government final consumption expenditure
Gross fixed capital formation	2 421	2 769	3 966	5 293	5 967	7 504	9 305	10 212	10 787	11 685	12 923	16 000	17 184	19 817	25 232	23 189	25 496	30 038	34 771	36 179	37 688	40 402	40 722	39 911	43 664	48 002	45 416	55 630	66 737	68 333	Gross fixed capital formation
Stock change	199	346	230	315	196	559	721	728	888	693	- 94	- 69	915	332	1 892	-1 154	1 950	2 340	2 650	1 577	- 467	205	- 709	680	2 185	982	-2 863	3 134	776	-2 485	Stock change
Exports of goods and services	3 281	4 136	4 827	5 157	6 578	8 342	12 717	14 462	15 622	18 546	23 967	27 507	35 785	40 689	38 638	35 682	41 989	45 797	43 990	44 059	48 830	46 304	47 124	50 802	54 044	54 504	63 055	76 870	93 704	86 843	Exports of goods and services
Imports of goods and services	2 953	3 540	4 548	5 525	6 169	7 676	12 069	13 758	14 638	16 204	18 240	21 832	24 348	28 713	37 091	28 429	35 243	42 275	44 595	45 389	48 278	47 838	47 481	49 661	56 164	58 145	54 043	78 702	104 146	84 314	Imports of goods and services
Real GDP & its components (billion of 2019 CLP) ^{*1}																															Real GDP & its components (billion of 2019 CLP) ^{*1}
Gross Domestic Product	52 300	56 381	62 677	66 807	70 167	76 436	95 614	98 629	101 788	106 596	113 710	120 348	127 629	134 225	139 311	137 754	145 815	154 890	164 424	169 864	172 909	176 630	179 726	182 166	189 435	190 843	179 115	200 138	203 305	204 521	Gross Domestic Product
Household final consumption expenditure	24 516	26 691	30 371	32 628	35 295	38 760	49 561	50 564	51 916	53 970	58 662	63 224	67 783	72 182	74 488	74 114	82 554	90 160	95 899	101 028	103 420	105 894	109 391	113 278	117 562	118 425	109 647	132 502	134 840	128 011	Household final consumption expenditure
General government final consumption expenditure	10 019	10 377	10 958	11 430	11 652	12 138	13 779	14 054	14 325	14 439	15 139	15 847	16 797	17 925	17 889	19 585	20 304	20 832	21 545	22 178	23 098	24 246	26 087	27 305	28 143	28 311	27 317	31 082	33 204	33 856	General government final consumption expenditure
Gross fixed capital formation	6 699	6 687	8 294	9 783	10 388	12 829	15 527	15 875	16 578	17 996	20 383	25 088	26 706	29 530	35 044	31 169	34 631	39 849	44 635	45 224	43 391	43 438	42 412	41 002	43 664	45 623	40 680	47 072	49 022	49 325	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA	NA	Stock change
Exports of goods and services	12 597	14 163	16 136	16 706	18 648	20 697	31 465	33 860	34 958	37 409	43 025	44 434	46 756	49 913	49 661	47 574	48 463	50 979	51 144	52 709	52 952	51 718	52 027	51 527	54 044	52 666	52 187	51 472	51 777	51 870	Exports of goods and services
Imports of goods and services	6 554	7 010	8 538	9 749	10 736	13 417	18 072	18 975	19 324	20 845	24 911	29 487	33 184	37 748	41 847	34 440	43 133	49 965	51 871	52 835	49 358	48 936	49 509	51 714	56 164	55 189	48 387	63 772	64 792	57 602	Imports of goods and services
Sectoral shares of Real GDP (%) ^{*1}																															Sectoral shares of Real GDP (%) ^{*1}
Agriculture, Fishery and Forestry	3.9	3.7	3.7	3.6	3.7	3.6	3.4	3.5	3.6	3.6	3.7	3.9	4.1	3.9	4.1	4.1	4.0	4.2	4.0	3.9	3.7	3.8	3.8	3.9	3.9	3.9	4.0	3.7	3.7	3.6	Agriculture, Fishery and Forestry
Industry	44.5	44.4	43.6	44.0	43.8	43.6	41.4	40.6	39.4	38.4	37.1	35.6	34.6	33.0	31.5	31.3	30.2	29.2	29.2	29.2	28.9	28.7	28.1	27.6	27.9	27.5	28.3	26.3	24.4	24.8	Industry
Services, etc.	51.5	51.9	52.3	51.9	52.0	52.6	48.1	48.6	49.4	50.1	50.5	51.3	51.9	53.5	55.1	55.5	56.1	56.9	57.1	57.0	57.4	57.7	58.1	58.3	58.0	58.5	57.5	59.1	61.6	62.0	Services, etc.
Industrial production index (2010=100) ^{*2}	N.A.	...	...	...	...	...	78.4	79.9	81.3	85.5	93.0	98.1	101.3	105.4	105.7	97.8	100.0	103.7	107.2	110.8	111.1	111.7	110.6	109.9	113.0	N.A.	N.A.	N.A.	152.0	156.0	Industrial production index (2010=100) ^{*2}
External trade (billions of current USD) ^{*1}																															External trade (billions of current USD) ^{*1}
Exports, f.o.b	8.4	8.9	10.0	9.2	11.6	16.0	19.2	18.3	18.2	21.7	32.5	41.3	58.7	68.0	64.5	55.5	71.1	81.4	77.8	76.8	75.1	62.0	60.7	68.8	74.8	68.8	74.1	94.7	98.5	94.6	Exports, f.o.b
Imports, c.i.f.	7.9	8.2	10.2	11.1	11.8	15.9	18.5	17.4	17.1	19.3	24.8	32.7	38.4	47.2	62.8	42.8	59.2	74.7	80.1	79.4	72.9	62.4	59.4	65.2	74.6	69.9	59.2	92.2	104.5	85.3	Imports, c.i.f.
Balance of payments (billion of current USD) ^{*2}																															Balance of payments (billion of current USD) ^{*2}
Trade balance	1.3	1.5	0.7	-1.0	0.7	1.4	2.2	1.9	2.4	3.8	10.2	11.3	22.9	24.1	6.1	15.3	15.9	10.8	2.6	2.0	6.5	3.4	4.9	7.4	4.2	3.0	18.4	0.0	3.7	13.8	Trade balance
Current account	-0.5	-0.1	-1.0	-2.6	-1.6	-1.3	-0.9	-1.1	-0.6	-0.2	2.8	1.8	7.0	7.4	-6.7	3.2	3.1	-6.8	-11.8	-13.3	-5.2	-5.7	-5.0	-6.4	-11.6	-10.5	3.4	0.0	-26.2	-10.5	Current account
Overall balance	2.4	0.9	2.2	0.4	3.7	1.0	-0.1	0.3	1.1	0.9	0.3	2.7	2.5	-2.0	5.6	1.2	3.9	13.4	0.6	1.0	1.3	0.2	-0.1	-4.4	1.1	-0.7	-0.5	0.0	-7.4	-7.4	Overall balance
Foreign exchange rate (CLP/USD) ^{*1}	304.90	349.22	362.58	404.17	420.18	396.77	539.59	634.94	688.94	691.40	609.53	559.77	530.28	522.46	522.46	560.86	510.25	483.67	486.47	495.27	570.35	654.12	676.96	648.83	641.28	702.90	792.73	758.96	873.31	840.07	Foreign exchange rate (CLP/USD) ^{*1}
PPP conversion factor, GDP (CLP/USD) ^{*1}	170.54	199.96	218.52	236.17	260.37	278.80	290.43	296.18	301.37	308.25	321.28	333.69	318.57	323.88	340.40	354.33	359.84	348.02	347.23	349.68	367.21	391.18	397.25	397.69	396.23	401.61	418.45	435.16	426.10	437.10	PPP conversion factor, GDP (CLP/USD) ^{*1}
Price Indices																															Price Indices
GDP Deflator (2018=100) ^{*3}	19.3	23.4	26.6	29.8	34.1	38.1	44.2	46.0	47.6	49.6	53.1	56.9	63.9	67.2	67.4	69.8	76.0	78.4	79.0	80.8	85.6	89.8	93.9	98.4	100.0	102.6	112.5	120.1	129.8	137.8	GDP Deflator (2018=100) ^{*3}
Producer Price Index (2010=100) ^{*2}	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1.4	7.2	7.5	-3.3	81.3	100.0	112.2	104.8	100.7	92.9	91.8	91.1	100.0	104.9	106.9	N.A.	N.A.	189.7	181.1	

Energy prices in Chile
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	CLP / US Dollar	510.25	483.67	486.47	495.27	570.35	654.12	676.96	648.83	641.28	702.90	792.73	744.04	873.19	839.79
Coal and Coal Products															
Coking Coal	USD/tonne		269.22	222.36	122.52	150.01	108.00	95.92	202.17	214.05	230.69	140.59	166.49	382.68	285.44
Anthracite															
Other bituminous coal	USD/tonne		106.95	96.22	89.91	83.23	72.26	65.65	88.53	98.04	76.41	60.24	109.30	261.10	195.26
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil	USD/m³		651.19	647.92	638.07	587.40	298.50	238.41	310.73	407.48	379.80	238.14	417.05	590.01	489.27
Natural Gas Liquids															
Ethane															
LPG															
Naphtha															
Motor Gasoline															
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil															
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	CLP / US Dollar	510.25	483.67	486.47	495.27	570.35	654.12	676.96	648.83	641.28	702.90	792.73	744.04	873.19	839.79
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	CLP/L		563.00	565.14	606.42	634.30	541.60	556.76	637.40	703.01	689.14	740.66	912.76	1,017.10	957.08
Naphtha															
Motor Gasoline (regular)	CLP/L		733.80	786.11	801.44	876.15	751.36	706.92	737.88	805.45	805.62	786.94	876.34	1,186.56	1,267.68
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	CLP/L		585.74	609.35	625.61	705.41	623.36	559.23	555.11	656.09	666.88	584.04	692.07	1,088.49	1,059.81
Gas/Diesel Oil	CLP/L		579.58	606.73	614.19	667.77	511.08	432.44	485.97	580.84	592.56	547.78	627.74	977.69	1,039.51
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	CLP/MWh		66 649	60 753	55 443	58 585	54 890	53 660	63 506	71 672	75 592	78 339	86 819	104 183	113 946
Liquefied Natural Gas (export)															
Compressed Natural Gas															
Electricity															
Industrial	CLP/MWh		74 614	61 573	58 452	59 255	75 009	84 320	97 192	101 835	112 181	130 287	130 281	133 233	136 385
Commercial	CLP/MWh		105 632	95 068	92 716	92 439	110 488	122 630	138 872	145 449	156 277	160 163	161 345	161 611	172 417
Residential	CLP/MWh		101 902	90 093	85 340	86 417	103 284	114 779	129 299	126 441	137 982	142 813	142 809	145 666	151 553
Others															
Other Energy Products															

China

Energy balance table of China

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	92 192		8 752								8 507	4 436	4 742		2 103	3 189	3 108			127 030	12 837	Production
Import	5 186	6.8	23 611	4 030		21	5.6	1 165	1 642	1 196	6 054								18	38 906		Import
Export	- 101	- 251	- 59	-2 814	- 530	- 686	- 590	- 827	- 46	- 136	- 236								- 80	-3 541		Export
International marine bunkers				- 204				- 204												- 204		International marine bunkers
International aviation bunkers				122		122														122		International aviation bunkers
Stock changes	-1 789	- 204	625	- 678	- 66	12	- 405	- 46	- 19	- 156	- 79									-2 126		Stock changes
Total primary energy supply	95 488	- 448	32 928	454	- 596	- 531	- 989	88	1 577	905	14 246	4 436	4 742		2 103	3 189	3 108		- 61	160 186	12 837	Total primary energy supply
Transfers			6 537	-6 375	- 107	-0.7	- 341	-2 036	- 521	-3 369										161		Transfers
Total transformation sector	-77 231	10 788	-38 138	36 974	7 008	2 062	9 275	2 713	2 592	13 324	-2 035	-4 436	-4 742		-2 103	-3 189	-1 897		43 143	-42 867	-11 625	Total transformation sector
Main activity producers	-56 605	-2 388	-0.2	- 390			-9.1	- 47	-9.5	- 324	-3 004	-4 436	-4 742		-2 103	-3 189	-1 897		44 848	-33 908	-11 625	Main activity producers
Autoproducers																			-1 705	- 1 705		Autoproducers
Gas processing	-1 137	- 245		- 77					-1.6	- 75	1 067									- 391		Gas processing
Petroleum refineries			-38 138	37 441	7 008	2 062	9 284	2 760	2 603	13 724										- 696		Petroleum refineries
Coal transformation	-19 490	13 421																		-6 068		Coal transformation
Other transformation											- 99									- 99		Other transformation
Losses & own use	- 445	- 659	- 115	-1 980	- 12		- 136	-1.0	- 22	-1 808	-1 167						-8.3		-6 028	-10 402	-8.3	Losses & own use
Discrepancy	-2 313	- 182	-1 209	- 931	- 240	- 29	- 302	46	- 227	- 179	75								- 41	-4 602		Discrepancy
Total final consumption	15 499	9 498	2.8	28 142	6 053	1 501	7 507	810	3 399	8 873	11 118						1 203		37 013	102 477	1 203	Total final consumption
Total final energy consumption	11 347	7 825	2.8	19 097	6 046	1 501	7 504	707	2 465	874	10 306						1 203		37 013	86 794	1 203	Total final energy consumption
Industry sector	9 412	7 768	2.8	2 989	265		746	82	1 103	793	6 103						463		22 735	49 473	463	Industry sector
Mining and quarrying	252	83	1.6	143	1.7		139	1.0		0.9	51						4.9		491	1 027	4.9	Mining and quarrying
Construction	176	0.8		624	223		314	24	7.0	55	28						6.7		399	1 235	6.7	Construction
Iron and steel	2 489	5 862		33	0.5		20	0.1	4.0	8.8	599						10		2 722	11 716	10	Iron and steel
Chemical & petrochemical	478	931	0.2	1 721	3.7		18	10	1 060	630	1 435						255		6 468	11 289	255	Chemical & petrochemical
Non-ferrous metals	372	194	0.1	77	0.6		13	4.4	1.2	58	650						3.0		3 210	4 506	3.0	Non-ferrous metals
Non-metallic minerals	5 156	437	0.8	247	2.9		184	37	17	6.9	1 452						47		1 626	8 966	47	Non-metallic minerals
Transportation equipment	2.5	9.4		18	4.8		11	0.7	1.1	0.6	218						0.4		685	933	0.4	Transportation equipment
Machinery	44	213		73	17		22	1.5	6.5	26	828								2 866	4 024		Machinery
Food, beverages and tobacco	265	13		15	2.9		8.9	1.5	1.4	0.2	354						70		1 023	1 739	70	Food, beverages and tobacco
Pulp, paper and printing	100	5.5		15	1.9		7.4	1.4	1.0	3.7	154						20		852	1 145	20	Pulp, paper and printing
Wood and wood products	0.6			3.0	0.3		2.4		0.3		12						25		124	164	25	Wood and wood products
Textiles and leather	41	10		5.8	2.3		2.4	0.2	0.5	0.4	230						15		1 236	1 539	15	Textiles and leather
Non-specified industry	36	9.7		14	2.7		4.9	0.3	2.6	3.9	94						5.9		1 032	1 192	5.9	Non-specified industry
Transport sector	17			12 160	4 551	1 501	5 460	615	33		1 284						196		839	14 496	196	Transport sector
Domestic air transport				1 501		1 501														1 501		Domestic air transport
Road				8 293	4 117		4 140	3.6	33		1 171						196		275	9 936	196	Road
Rail	17			211	6.2		202	1.9											379	607		Rail
Inland waterways				1 452	98		753	602												1 452		Inland waterways
Non-specified transport				702	330		364	7.8			113								185	1 000		Non-specified transport
Other sector	1 917	58		3 948	1 231		1 298	10	1 330	80	2 919						544		13 438	22 825	544	Other sector
Residential	902	5.8		1 225					1 224	1.0	2 294						278		6 849	11 555	278	Residential
Commerce and public services	327	51		174			107	7.3	52	7.0	378						14		2 168	3 111	14	Commerce and public services
Agriculture	257	0.4		900	132		758	0.3	3.9	5.5	8.1						208		702	2 074	208	Agriculture
Fishery																						Fishery
Non-specified	432	0.2		1 649	1 098		432	2.6	49	67	239						45		3 719	6 085	45	Non-specified
Non-energy	4 152	1 673		9 046	6.9		3.2	103	934	7 999	812									15 682		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	5928 372			8 807							321 828	1285 848	434 725		584 262	885 867	6 733			9456 442	2762 710	Electricity generated (GWh)
Electricity plants	5928 372			8 807							321 828	1285 848	434 725		584 262	885 867	6 733			9456 442	2762 710	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)	9 708			272							799						25			10 805	25	Heat generated (PJ)
Heat plants	9 708			272							799						25			10 805	25	Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of China

2022

Petajoules																							
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables		
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products													
Production	90 056		8 571								8 062	4 694	4 558		1 538	2 746	2 951			123 176	11 929	Production	
Import	5 504	15	21 279	2 991	0.9	49	19	546	1 352	1 024	5 518								26	35 332		Import	
Export	- 66	- 254	- 86	-2 426	- 542	- 472	- 467	- 781	- 44	- 120	- 214								- 72	-3 118		Export	
International marine bunkers				- 218			13	- 231												- 218		International marine bunkers	
International aviation bunkers				74			74													74		International aviation bunkers	
Stock changes	337	- 175	434	- 260	-8.9	3.3	- 133	- 23	- 26	- 71	- 35									301		Stock changes	
Total primary energy supply	95 832	- 414	30 198	160	- 550	- 346	- 568	- 490	1 282	832	13 331	4 694	4 558		1 538	2 746	2 951		- 47	155 546	11 929	Total primary energy supply	
Transfers			5 408	-5 228	- 66		- 90	-1 054	- 500	-3 518											179		Transfers
Total transformation sector	-72 935	10 060	-34 586	33 413	6 311	1 164	8 224	2 498	2 412	12 804	-1 971	-4 694	-4 558		-1 538	-2 746	-1 765		40 189	-41 131	-10 742	Total transformation sector	
Main activity producers	-53 391	-2 152	-0.6	- 367			- 14	- 108	- 22	- 222	-2 698	-4 694	-4 558		-1 538	-2 746	-1 765		41 699	-32 210	-10 742	Main activity producers	
Autoproducers																			-1 510	-1 510		Autoproducers	
Gas processing	-1 060	- 199		- 26						-1.9	- 24	842								- 443		Gas processing	
Petroleum refineries			-34 585	33 805	6 311	1 164	8 238	2 606	2 436	13 050										- 780		Petroleum refineries	
Coal transformation	-18 484	12 411																		-6 073		Coal transformation	
Other transformation											- 115									- 115		Other transformation	
Losses & own use	- 475	- 294	- 137	-2 166	- 11		- 118	-1.7	- 37	-1 998	-1 159						- 10		-5 796	-10 038	- 10	Losses & own use	
Discrepancy	-6 609	153	- 880	- 624	- 35	- 38	- 410	- 43	166	- 265	- 200								- 44	-8 206		Discrepancy	
Total final consumption	15 812	9 504	1.6	25 554	5 648	780	7 038	910	3 323	7 855	10 001						1 176		34 302	96 351	1 176	Total final consumption	
Total final energy consumption	12 338	8 054	1.6	17 755	5 637	780	7 035	808	2 530	965	9 451						1 176		34 302	83 078	1 176	Total final energy consumption	
Industry sector	9 935	8 015	1.6	3 029	278		723	118	1 044	865	5 412						389		21 218	47 999	389	Industry sector	
Mining and quarrying	268	86		139	1.9		136	0.7		0.8	27						4.7		470	995	4.7	Mining and quarrying	
Construction	187	0.5		564	235		257	17	6.8	48	28						6.8		415	1 201	6.8	Construction	
Iron and steel	2 336	6 519		37	0.5		24	1.9	3.6	7.6	539						9.3		2 654	12 095	9.3	Iron and steel	
Chemical & petrochemical	779	522	0.2	1 586	3.5		25	26	1 001	531	1 481						210		5 943	10 522	210	Chemical & petrochemical	
Non-ferrous metals	373	179	0.1	105	0.8		18	3.0	1.1	82	547						4.0		3 111	4 319	4.0	Non-ferrous metals	
Non-metallic minerals	5 445	447	1.3	416	3.7		160	55	19	179	1 019								1 511	8 840		Non-metallic minerals	
Transportation equipment	13	5.5		24	5.2		15	1.8	1.4	0.7	242						0.5		599	884	0.5	Transportation equipment	
Machinery	55	225		72	16		41	2.8	5.8	6.3	716						7.2		2 565	3 641	7.2	Machinery	
Food, beverages and tobacco	283	12		21	3.8		13	2.1	1.4	0.5	352						77		967	1 711	77	Food, beverages and tobacco	
Pulp, paper and printing	112	4.9		21	1.9		13	2.2	1.6	2.4	132						19		770	1 059	19	Pulp, paper and printing	
Wood and wood products	1.9			3.8	0.5		3.1		0.1		14						28		120	168	28	Wood and wood products	
Textiles and leather	41	6.7		14	2.2		7.4	2.8	0.8	0.4	228						16		1 139	1 444	16	Textiles and leather	
Non-specified industry	41	7.1		25	2.9		10	2.3	2.6	7.2	88						6.3		953	1 120	6.3	Non-specified industry	
Transport sector	21			10 868	4 270	780	5 095	682	41		1 227						198		735	13 048	198	Transport sector	
Domestic air transport				780		780														780		Domestic air transport	
Road				7 771	3 863		3 863	4.0	41		1 119						198		241	9 329	198	Road	
Rail	21			197	5.8		189	2.1											332	549		Rail	
Inland waterways				1 462	92		703	668												1 462		Inland waterways	
Non-specified transport				658	310		340	8.7			108								162	928		Non-specified transport	
Other sector	2 383	39		3 859	1 090		1 216	7.7	1 445	100	2 811						589		12 349	22 030	589	Other sector	
Residential	1 146	7.9		1 344					1 343	0.9	2 212						340		6 671	11 721	340	Residential	
Commerce and public services	419	30		168			104	5.0	49	11	364						14		1 896	2 892	14	Commerce and public services	
Agriculture	339	0.4		866	120		736	0.4	4.8	5.1	8.2						193		634	2 041	193	Agriculture	
Fishery																						Fishery	
Non-specified	479	0.2		1 480	970		376	2.3	48	83	227						42		3 147	5 376	42	Non-specified	
Non-energy	3 474	1 450		7 799	11		3.4	102	793	6 890	550									13 273		Non-energy	
Electricity and heat output																							
Electricity generated (GWh)	5586 458			9 054							286 546	1352 195	417 775		427 275	762 672	6 737			8848 712	2548 879	Electricity generated (GWh)	
Electricity plants	5586 458			9 054							286 546	1352 195	417 775		427 275	762 672	6 737			8848 712	2548 879	Electricity plants	
CHP plants																						CHP plants	
Heat generated (PJ)	8 811			244							757						31			9 843	31	Heat generated (PJ)	
Heat plants	8 811			244							757						31			9 843	31	Heat plants	
CHP plants																						CHP plants	

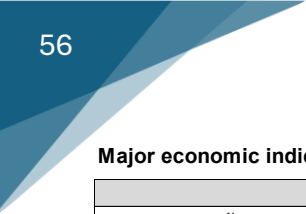
Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of China

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																											Total
Primary energy supply	28 172	36 860	39 831	41 946	45 146	52 979	61 452	70 155	76 216	82 165	86 463	93 644	101 424	112 716	116 632	119 462	116 064	118 118	115 132	124 501	130 535	136 301	140 174	143 529	155 546	160 186	Primary energy supply
Production	30 548	37 588	39 352	41 849	43 897	50 607	57 814	63 932	69 141	74 165	78 263	83 238	88 816	98 428	100 562	102 798	98 906	97 974	92 458	96 159	101 555	105 970	108 318	113 519	123 176	127 030	Production
Import	375	1 488	4 044	3 778	4 458	5 706	7 597	7 713	8 977	10 059	10 647	13 886	16 572	18 810	19 768	21 147	20 782	23 857	24 770	28 360	31 778	34 048	36 110	35 836	35 332	38 906	Import
Export	-1 733	-1 919	-2 643	-3 306	-3 206	-3 560	-3 235	-1 959	-2 847	-2 728	-2 563	-2 078	-2 149	-2 016	-1 716	-1 921	-2 011	-2 450	-2 981	-3 252	-3 476	-3 600	-3 378	-3 376	-3 118	-3 541	Export
Final energy consumption	21 842	22 986	23 082	24 060	25 506	29 352	35 455	40 135	43 572	47 513	50 375	53 195	57 764	65 265	70 023	70 520	70 202	71 453	71 419	72 933	75 156	76 353	77 274	81 760	83 078	86 794	Final energy consumption
Industry	13 924	14 565	13 790	14 424	15 174	17 431	21 574	25 087	27 269	30 052	32 219	34 263	37 470	43 131	46 268	45 026	42 298	41 609	40 220	40 373	41 700	42 608	43 761	46 169	47 999	49 473	Industry
Transport	1 245	1 623	2 960	3 029	3 303	3 943	4 800	5 205	5 679	6 137	6 630	6 858	7 603	8 414	9 310	10 016	11 249	11 988	12 373	13 003	13 482	13 598	12 858	13 908	13 048	14 496	Transport
Residential	4 432	4 115	3 596	3 693	3 875	4 316	4 899	5 307	5 729	6 150	6 202	6 466	6 788	7 217	7 541	8 074	8 675	9 309	9 982	10 524	10 835	10 736	11 195	11 478	11 721	11 555	Residential
Commerce & public services	278	321	567	621	688	822	951	1 034	1 126	1 226	1 230	1 333	1 379	1 580	1 691	1 809	2 220	2 323	2 413	2 447	2 470	2 621	2 606	2 820	2 892	3 111	Commerce & public services
Others	1 963	2 361	2 170	2 294	2 465	2 839	3 231	3 502	3 768	3 948	4 094	4 275	4 524	4 923	5 214	5 595	5 761	6 225	6 430	6 586	6 669	6 790	6 855	7 386	7 417	8 159	Others
Coal and peat																											Coal and peat
Primary energy supply	22 321	29 027	28 617	30 197	32 356	38 746	44 752	52 608	57 187	61 797	64 318	70 196	73 987	83 675	84 480	85 876	79 127	78 688	72 621	78 458	80 824	82 798	82 986	86 741	95 832	95 488	Primary energy supply
Production	23 636	29 630	30 051	32 085	33 714	39 959	46 224	51 557	56 014	60 192	63 237	67 835	71 214	80 110	80 832	81 823	76 476	74 449	68 462	71 147	74 999	78 375	79 158	82 173	90 056	92 192	Production
Import	50	41	54	66	280	276	463	654	963	1 266	1 044	3 073	3 963	4 758	4 673	5 185	3 719	5 307	3 719	4 657	4 937	5 140	5 449	5 293	5 504	5 186	Import
Export	-398	-664	-1 205	-1 973	-1 836	-2 058	-1 897	-411	-1 388	-1 168	-1 016	-497	-433	-358	-228	-178	-143	-143	-133	-219	-201	-123	-153	-81	-66	-101	Export
Transformation sector	-9 135	-15 412	-18 208	-19 465	-21 519	-26 104	-29 081	-33 778	-38 539	-41 555	-42 376	-45 812	-46 796	-52 701	-53 039	-57 340	-57 298	-55 004	-56 012	-58 367	-62 128	-65 348	-65 991	-70 573	-72 935	-77 231	Transformation sector
Power generation	-6 461	-10 770	-13 829	-14 715	-16 600	-19 872	-22 149	-25 081	-28 539	-30 674	-31 603	-34 085	-33 092	-37 373	-37 570	-40 341	-40 513	-38 897	-39 937	-42 536	-45 319	-47 234	-47 734	-52 208	-53 391	-56 605	Power generation
Final energy consumption	13 916	13 323	9 193	9 463	9 644	11 359	14 506	16 316	17 177	18 207	19 356	20 440	21 101	24 572	26 562	24 204	21 364	21 250	19 109	17 118	14 409	13 202	13 025	12 052	12 338	11 347	Final energy consumption
Industry	8 349	8 777	6 286	6 506	6 573	7 947	10 773	12 393	13 153	14 168	15 321	16 334	17 110	20 355	22 406	19 961	16 706	16 451	14 353	12 612	10 684	9 923	9 988	9 532	9 935	9 412	Industry
Transport	464	283	189	181	183	206	179	175	167	151	144	138	130	135	123	122	128	113	93	81	74	65	55	26	21	17	Transport
Residential	3 933	3 164	1 806	1 790	1 782	1 897	2 057	2 118	2 137	2 068	1 992	1 997	1 959	1 998	1 913	1 900	2 142	2 216	2 185	2 137	1 776	1 530	1 429	1 209	1 146	902	Residential
Commerce & public services	241	222	331	360	401	474	546	596	634	671	699	722	689	783	799	835	887	908	900	811	636	602	592	452	419	327	Commerce & public services
Others	930	877	581	626	706	835	951	1 034	1 085	1 151	1 201	1 249	1 213	1 300	1 321	1 385	1 502	1 562	1 579	1 476	1 239	1 082	1 052	833	818	689	Others
Coal and peat products																											Coal and peat products
Primary energy supply	-69	-347	-367	-475	-405	-525	-591	-407	-507	-633	-91	109	14	-385	279	-711	-311	-231	145	161	-428	-220	34	-83	-414	-448	Primary energy supply
Production								0.2	0.2			4.5	3.1	3.3	2.2	1.0	0.7	1.0	1.0	0.5	2.6	15	85	38	15	6.8	Production
Import																											Import
Export	-37	-252	-433	-394	-386	-419	-427	-364	-413	-437	-348	-16	-95	-94	-29	-133	-245	-277	-291	-231	-279	-186	-100	-184	-254	-251	Export
Transformation sector	1 270	2 802	2 173	2 214	2 139	2 420	2 878	3 758	3 916	4 179	4 213	4 297	6 913	8 184	8 485	9 306	8 578	8 200	8 007	7 906	9 271	9 663	9 441	9 365	10 060	10 788	Transformation sector
Power generation	-26	-30	-32	-28	-29	-25	-62	-86	-171	-146	-250	-822	-965	-1 040	-1 233	-1 347	-1 340	-1 404	-1 438	-1 694	-1 866	-2 185	-2 107	-2 152	-2 388	-2 388	Power generation
Final energy consumption	1 724	1 514	1 472	1 434	1 464	1 565																					



Major economic indicators of China

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Population (million) ¹	1 135.19	1 150.78	1 164.97	1 178.44	1 191.84	1 204.86	1 262.65	1 271.85	1 280.40	1 288.40	1 296.08	1 303.72	1 311.02	1 317.89	1 324.66	1 331.26	1 337.71	1 345.04	1 354.19	1 363.24	1 371.86	1 379.86	1 387.79	1 396.22	1 402.76	1 407.75	1 411.10	1 412.36	1 412.18	1 410.71	Population (million) ¹	
Gross domestic product ³																															Gross domestic product ³	
Real term, billion USD (constant 2015)	1 027	1 123	1 282	1 460	1 651	1 831	2 770	3 001	3 275	3 604	3 968	4 421	4 983	5 692	6 241	6 828	7 554	8 276	8 926	9 620	10 334	11 062	11 819	12 640	13 493	14 296	14 616	15 851	16 325	17 612	Real term, billion USD (constant 2015)	
GDP, billion USD (PPP, constant 2021)	1 616	1 766	2 017	2 297	2 597	2 881	4 358	4 722	5 153	5 670	6 243	6 955	7 840	8 955	9 820	10 742	11 885	13 020	14 044	15 135	16 258	17 403	18 595	19 887	21 229	22 493	22 996	24 939	29 683	32 005	GDP, billion USD (PPP, constant 2021)	
Nominal, billion USD (current)	361	383	427	445	564	734	1 211	1 339	1 471	1 660	1 955	2 286	2 752	3 550	4 594	5 102	6 087	7 552	8 532	9 570	10 476	11 062	11 233	12 310	13 895	14 280	14 688	17 820	17 882	18 270	Nominal, billion USD (current)	
GDP per capita ³																															GDP per capita ³	
Real term (constant 2015 USD)	905	975	1 101	1 239	1 385	1 520	2 194	2 360	2 558	2 797	3 062	3 391	3 801	4 319	4 712	5 129	5 647	6 153	6 592	7 056	7 533	8 016	8 517	9 053	9 619	10 156	10 358	11 223	11 560	12 484	Real term (constant 2015 USD)	
GDP, PPP (constant 2021 USD)	1 424	1 535	1 732	1 950	2 179	2 391	3 452	3 712	4 024	4 401	4 817	5 335	5 980	6 795	7 413	8 069	8 885	9 680	10 371	11 102	11 851	12 612	13 399	14 244	15 134	15 978	16 297	17 657	21 019	22 687	GDP, PPP (constant 2021 USD)	
Nominal (current USD)	318	333	366	377	473	610	959	1 053	1 149	1 289	1 509	1 753	2 099	2 694	3 468	3 832	4 550	5 614	6 301	7 020	7 636	8 016	8 094	8 817	9 905	10 144	10 409	12 618	12 663	12 951	Nominal (current USD)	
Nominal GDP & its components (billion of current CNY) ¹																															Nominal GDP & its components (billion of current CNY) ¹	
Gross domestic product	1 887	2 201	2 719	3 567	4 864	6 134	10 028	11 086	12 172	13 742	16 184	18 732	21 944	27 009	31 924	34 852	41 212	48 794	53 858	59 296	64 356	68 886	74 640	83 204	91 928	98 652	101 357	114 924	120 472	129 427	Gross domestic product	
Household final consumption expenditure	944	1 054	1 231	1 569	2 144	2 807	4 686	5 046	5 467	5 869	6 572	7 415	8 284	9 823	11 265	12 312	14 147	17 039	19 058	21 248	23 624	26 020	28 867	32 069	35 412	38 719	38 719	43 802	45 047	51 212	Household final consumption expenditure	
General government final consumption expenditure	258	308	393	512	685	816	1 689	1 820	1 956	2 105	2 367	2 772	3 252	3 951	4 624	5 142	6 012	7 436	8 486	9 419	10 179	11 172	12 214	13 583	15 201	16 544	17 363	18 167	19 336	22 247	General government final consumption expenditure	
Gross fixed capital formation	453	566	825	1 323	1 675	1 984	3 267	3 709	4 267	5 257	6 397	7 385	8 498	10 234	12 470	15 269	18 104	21 402	23 832	26 398	28 224	28 997	31 014	34 830	39 385	42 245	43 062	48 212	50 483	52 359	Gross fixed capital formation	
Stock change	192	210	237	221	273	399	100	231	133	187	375	172	260	699	1 024	538	1 083	1 366	1 064	1 115	1 266	786	805	959	874	423	893	1 366	1 496	874	Stock change	
Exports of goods and services	235	296	369	428	902	1 101	2 095	2 252	2 756	3 708	5 027	6 337	7 907	9 571	10 408	8 626	11 204	12 964	13 730	14 586	15 130	14 710	14 618	16 385	17 569	18 162	18 838	22 920	25 048	24 724	Exports of goods and services	
Imports of goods and services	184	234	341	496	838	1 001	1 857	2 019	2 447	3 411	4 603	5 316	6 242	7 227	7 984	7 122	9 698	11 795	12 266	13 131	13 769	12 475	12 920	14 927	16 964	17 244	16 388	19 948	21 155	22 006	Imports of goods and services	
Real GDP & its components (billion of 2019 CNY) ¹																															Real GDP & its components (billion of 2019 CNY) ¹	
Gross Domestic Product	6 398	6 991	7 985	9 094	10 279	11 405	17 251	18 689	20 396	22 443	24 713	27 529	31 031	35 447	38 868	42 521	47 043	51 536	55 589	59 906	64 354	68 886	73 604	78 717	84 030	89 030	91 024	98 713	113 205	122 152	Gross Domestic Product	
Household final consumption expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	4 179	6 436	6 885	7 514	7 976	8 621	9 572	10 550	12 003	13 057	14 362	16 028	18 439	20 137	21 921	23 937	26 020	28 346	31 048	33 632	35 795	34 900	39 482	45 047	49 735	Household final consumption expenditure	
General government final consumption expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	General government final consumption expenditure
Gross fixed capital formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Exports of goods and services
Imports of goods and services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																															Sectoral shares of Real GDP (%) ¹	
Agriculture, Fishery and Forestry	34.4	32.2	29.5	27.1	25.0	23.6	18.4	17.5	16.4	15.3	14.7	13.9	12.9	11.7	11.2	10.7	10.1	9.6	9.3	8.9	8.6	8.4	8.1	7.9	7.6	7.4	7.5	7.4	7.7	7.4	Agriculture, Fishery and Forestry	
Industry	28.3	29.5	31.2	32.8	34.3	35.2	37.2	37.2	37.5	38.4	38.8	39.0	39.3	39.5	39.6	39.9	40.7	41.1	41.3	41.4	41.3	40.8	40.5	40.1	39.8	39.4	39.4	39.5	38.2	36.1	Industry	
Services, etc.	47.0	47.0	46.3	45.6	45.0	44.6	46.3	47.1	47.7	47.4	47.4	47.9	48.5	49.2	49.6	49.7	49.3	49.2	49.3	49.5	50.0	50.8	51.4	52.0	52.6	53.2	53.1	53.1	54.1	56.5	Services, etc.	
Industrial production index (2010=100) ⁴	9.3	10.6	12.9	15.4	21.4	16.1	11.2	9.9	12.7	16.7	16.3	15.9	15.4	17.1	12.9	12.3	100.0	114.3	125.7	137.9	149.3	158.4	168.0	179.0	190.1	201.1	206.3	N.A.	N.A.	N.A.	Industrial production index (2010=100) ⁴	
External trade (billions of current USD) ¹																															External trade (billions of current USD) ¹	
Exports, f.o.b.	62.1	71.9	84.9	91.7	121.0	148.8	249.2	266.1	325.6	438.2	593.3	762.0	969.0	1 220.5	1 430.7	1 201.6	1 577.8	1 898.4	2 048.7	2 209.0	2 342.3	2 273.5	2 097.6	2 263.3	2 486.7	2 499.5	2 590.0	3 358.2	3 544.4	3 379.0	Exports, f.o.b.	
Imports, c.i.f.	53.3	63.8	80.6	104.0	115.6	132.1	225.1	243.6	295.2	412.8	561.2	660.0	791.5	956.1	1 132.6	1 005.9	1 396.2	1 743.5	1 818.4	1 950.0	1 959.2	1 679.6	1 587.9	1 843.8	2 135.7	2 078.4	2 066.0	2 686.7	2 706.5	2 556.9	Imports, c.i.f.	
Balance of payments (billion of current USD) ²																															Balance of payments (billion of current USD) ²	
Trade balance	9.2	8.7	5.2	-10.7	7.3	18.1	-13.6	-22.6	-18.0	33.7	44.9	130.1	215.7	302.8	344.5	235.5	238.1	228.7	311.6	359.0	435.0	576.2	488.9	475.9	380.1	393.0	511.1	562.7	665.0	594.0	Trade balance	
Current account	12.0	13.3	6.4	-11.6	6.9	1.6	20.5	17.4	35.4	43.1	68.9	132.4	231.8	353.2	420.6	243.3	237.8	136.1	215.4	148.2	236.0	293.0	191.3	188.7	24.1	102.9	248.8	352.9	443.4	263.4	Current account	
Overall balance	15.3	21.3	6.2	11.9	39.6	40.3	22.5	52.2	67.8	97.9	177.1	227.7	281.1	447.4	460.7	441.7	524.7	401.6	183.6	494.3	184.7	-141.1	-225.1	298.1	196.2	109.9	187.6	322.6	185.7	23.8	Overall balance	
Foreign exchange rate (CNY/USD) ¹	4.78	5.32	5.51	5.76	8.62	8.35	8.28	8.28	8.28	8.28	8.28	8.19	7.97	7.61	6.95	6.83	6.77	6.46	6.31	6.20	6.14	6.23	6.64	6.76	6.62	6.91	6.90	6.45	6.74	7.08	Foreign exchange rate (CNY/USD) ¹	
PPP conversion factor, GDP (CNY/USD) ¹	1.69	1.75	1.85	2.08	2.46	2.74	2.72	2.72	2.69	2.71	2.82	2.84	2.86	3.01	3.18	3.15	3.33	3.52	3.56	3.66	3.76	3.87	3.99	4.18	4.23	4.21	4.17	4.18	3.79	3.64	PPP conversion factor, GDP (CNY/USD) ¹	
Price Indices																															Price Indices	
GDP Deflator (2015=100) ⁴	29.5	31.5	34.1	39.2	47.3	53.8	58.1	59.3	59.7	61.2	65.5	68.0	70.7	76.2	82.1	82.0	87.6	94.7	96.9	99.0	100.0	100.0	101.4	105.7	109.4	110.8	111.4	116.4	106.4	106.0	GDP Deflator (2015=100) ⁴	
Producer Price Index (2000=100) ³	101.3	103.3	103.9	120.6	116.2	111.8	100.0	96.0	95.1	99.5	103.2	102.0	100.2	100.3	104.0	92.0	100.0	106.4	104.6	102.6	100.7	95.4	99.1	105.3	109.1	108.7	106.7	108.5	112.8	112.8	Producer Price Index (2000=100) ³	
Consumer Price Index (2010=100) ²	40.4	41.9	44.5	51.0	63.4	74.1	81.0	81.6	81.0	81.9	85.0																					

Hong Kong, China

Energy balance table of Hong Kong, China

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat ³	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production															1.0		5.8			6.9	6.9
Import	155			583	18	194	127	221	13	11	201						0.2		42	981	0.2
Export				-1.9	-0.1		-1.2	-0.5												-1.9	
International marine bunkers				-255			-39	-216												-255	
International aviation bunkers				-194		-194														-194	
Stock changes	-8.3			-15	-1.0	0.7	-9.6	-4.4	-1.8	0.7										-24	
Total primary energy supply	147			117	17	0.3	77		11	12	201				1.0		6.0		42	513	7.0
Transfers																					
Total transformation sector	-147			-17			-2.6		-2.5	-12	-165				-1.0		-3.3		135	-197	-4.3
Main activity producers	-147			-5.1			-2.6		-2.5		-176						-0.6		133	-195	-0.6
Autoproducers															-1.0		-2.0		2.0	-1.0	-3.0
Gas processing				-12						-12	12										
Petroleum refineries																					
Coal transformation																					
Other transformation																	-0.7			-0.7	-0.7
Losses & own use																			-13	-13	
Discrepancy				-22	7.6		-30				-12								-0.4	-35	
Total final consumption				78	24	0.3	45		8.8	0.1	24						2.7		164	269	2.7
Total final energy consumption				78	24	0.3	45		8.8	0.1	24						2.7		164	269	2.7
Industry sector				3.4	0.2	0.2	2.9		0.1		1.3								7.2	12	
Mining and quarrying																					
Construction																					
Iron and steel																					
Chemical & petrochemical																					
Non-ferrous metals																					
Non-metallic minerals																					
Transportation equipment				0.2		0.2														0.2	
Machinery																					
Food, beverages and tobacco																					
Pulp, paper and printing																					
Wood and wood products																					
Textiles and leather																					
Non-specified industry				3.2	0.2		2.9		0.1		1.3								7.2	12	
Transport sector				72	24	0.1	41		6.0								0.2		3.8	76	0.2
Domestic air transport				0.1		0.1														0.1	
Road				64	22		36		6.0								0.2		0.7	65	0.2
Rail																			3.1	3.1	
Inland waterways				7.2	1.9		5.3													7.2	
Non-specified transport																					
Other sector				3.0			0.2		2.6	0.1	23						2.4		153	181	2.4
Residential				2.1					2.1		13								44	59	
Commerce and public services				0.8			0.2		0.5	0.1	9.7						2.4		109	121	2.4
Agriculture																			0.1	0.1	
Fishery																					
Non-specified																					
Non-energy																					
Electricity and heat output																					
Electricity generated (GWh)	12 561			208							24 388	1			282	1	153		37 595	437	
Electricity plants	12 561			208							24 388	1			282	1	94		37 535	378	
CHP plants																	60		60	60	
Heat generated (PJ)																					
Heat plants																					
CHP plants																					

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

3. Heat in Hong Kong, China is chilled water from district cooling plants.

Energy balance table of Hong Kong, China

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat ³	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production															0.8		5.5			6.3	6.3	Production
Import	164			466	19	108	107	207	13	11	187						0.2		44	862	0.2	Import
Export				-3.3	-0.3		-2.8	-0.2												-3.3		Export
International marine bunkers				- 242			- 34	- 208	-0.2											- 242		International marine bunkers
International aviation bunkers				- 112		- 112														- 112		International aviation bunkers
Stock changes	- 14			-5.4	-0.9	4.6	-9.7	0.8	-1.6	1.4										- 19		Stock changes
Total primary energy supply	150			103	18	0.3	61		11	12	187				0.8		5.6		44	491	6.4	Total primary energy supply
Transfers																						Transfers
Total transformation sector	- 150			- 17			-2.4		-2.1	- 12	- 162				-0.8		-3.2		131	- 202	-4.0	Total transformation sector
Main activity producers	- 150			-4.5			-2.4		-2.1		- 174						-0.5		129	- 201	-0.5	Main activity producers
Autoproducers															-0.7		-2.0		1.7	-1.0	-2.7	Autoproducers
Gas processing				- 12						- 12	12											Gas processing
Petroleum refineries																						Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-0.7			-0.7	-0.7	Other transformation
Losses & own use																			- 13	- 13		Losses & own use
Discrepancy				-9.7	5.3		- 15				-0.8								-1.0	- 11		Discrepancy
Total final consumption				76	23	0.3	43		9.2	0.1	24						2.4		161	265	2.4	Total final consumption
Total final energy consumption				76	23	0.3	43		9.2	0.1	24						2.4		161	265	2.4	Total final energy consumption
Industry sector				3.2	0.2	0.2	2.8		0.1		1.3						0.1		7.0	12	0.1	Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment				0.2		0.2				0.1										0.2		Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				3.1	0.2		2.8		0.1		1.3						0.1		7.0	12	0.1	Non-specified industry
Transport sector				70	23	0.1	40		6.2								0.2		3.1	73	0.2	Transport sector
Domestic air transport				0.1		0.1														0.1		Domestic air transport
Road				63	21		35		6.2								0.2		0.4	64	0.2	Road
Rail																			2.7	2.7		Rail
Inland waterways				7.0	1.8		5.2													7.0		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				3.2			0.2		2.9	0.1	23						2.2		151	180	2.2	Other sector
Residential				2.6					2.6		14								45	62		Residential
Commerce and public services				0.5			0.2		0.3		8.8						2.2		106	117	2.2	Commerce and public services
Agriculture																			0.1	0.1		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy																						Non-energy
Electricity and heat output																						
Electricity generated (GWh)	12 758			177							22 872	2			210	1	150			36 170	362	Electricity generated (GWh)
Electricity plants	12 758			177							22 872	2			210	1	92			36 112	305	Electricity plants
CHP plants																	58			58	58	CHP plants
Heat generated (PJ)																				1		Heat generated (PJ)
Heat plants																				1		Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

3. Heat in Hong Kong, China is chilled water from district cooling plants.

Major energy indicators of Hong Kong, China

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total	392	457	579	580	554	571	548	590	570	585	575	560	559	581	579	590	602	590	605	600	600	599	535	534	491	513	Total
Primary energy supply																											Primary energy supply
Production							3.6	3.4	3.9	4.3	3.3	2.3	2.3	2.6	2.8	2.7	2.7	4.1	4.6	4.6	4.6	4.6	4.6	5.3	6.3	6.9	Production
Import	567	973	896	931	959	983	1 086	1 055	1 119	1 188	1 103	1 274	1 333	1 278	1 215	1 231	1 186	1 303	1 318	1 347	1 365	1 313	1 014	961	862	981	Import
Export	- 93	- 345	- 68	- 55	- 54	- 60	- 68	- 74	- 66	- 55	- 48	- 46	- 30	- 37	- 41	- 32	- 25	- 34	- 20	- 17	- 11	- 12	- 6.4	- 2.6	- 3.3	- 1.9	Export
Final energy consumption	214	277	374	354	323	323	285	282	288	299	311	278	280	274	277	274	278	277	278	275	276	277	267	275	265	269	Final energy consumption
Industry	65	59	74	67	53	52	29	24	23	27	47	16	16	14	13	13	13	13	12	12	13	12	12	12	12	12	Industry
Transport	64	103	159	144	119	117	99	98	101	102	98	88	90	89	88	88	87	87	87	85	84	84	77	80	73	76	Transport
Residential	31	40	47	47	49	51	53	54	52	54	53	58	58	57	58	57	60	58	60	58	59	59	64	64	62	59	Residential
Commerce & public services	51	72	91	94	98	100	104	106	112	116	113	116	116	115	117	117	118	119	119	119	121	122	113	119	117	121	Commerce & public services
Others	1.7	2.4	2.6	2.6	2.7	2.7								0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Others
Coal and peat																											Coal and peat
Primary energy supply	264	253	182	201	223	282	264	287	287	313	287	300	261	310	305	325	341	280	280	263	270	258	138	153	150	147	Primary energy supply
Production																											Production
Import	236	241	160	212	230	282	282	285	301	324	299	325	272	330	326	342	364	295	294	277	287	265	145	172	164	155	Import
Export	- 0.1	- 0.1	- 0.1	- 0.4	- 0.1	- 0.4				- 0.1						- 0.1											Export
Transformation sector	- 264	- 253	- 181	- 200	- 223	- 283	- 265	- 287	- 287	- 313	- 287	- 300	- 261	- 310	- 305	- 325	- 341	- 280	- 280	- 263	- 270	- 258	- 138	- 153	- 150	- 147	Transformation sector
Power generation	- 264	- 253	- 181	- 200	- 223	- 283	- 265	- 287	- 287	- 313	- 287	- 300	- 261	- 310	- 305	- 325	- 341	- 280	- 280	- 263	- 270	- 258	- 138	- 153	- 150	- 147	Power generation
Final energy consumption	0.5	0.4	0.2	0.2	0.2	0.2				0.1																	Final energy consumption
Industry										0.1																	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others	0.5	0.4	0.2	0.2	0.2	0.2																					Others
Coal and peat products																											Coal and peat products
Primary energy supply																											Primary energy supply
Production																											Production
Import			1.0																								Import
Export			- 1.0																								Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption																											Final energy consumption
Industry																											Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											

Major economic indicators of Hong Kong, China

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	5.70	5.75	5.80	5.90	6.04	6.16	6.67	6.71	6.74	6.73	6.78	6.81	6.86	6.92	6.96	6.97	7.02	7.07	7.15	7.18	7.23	7.29	7.34	7.39	7.45	7.51	7.48	7.41	7.35	7.54	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	122	129	137	145	154	158	180	181	184	189	206	221	236	252	257	251	268	280	285	294	302	309	316	328	337	332	310	330	318	328	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	164	174	184	196	208	213	242	243	247	255	277	298	319	339	346	338	361	378	385	396	407	417	426	442	455	447	418	445	470	486	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	77	89	104	120	136	145	172	169	166	161	169	182	194	212	219	214	229	249	263	276	291	309	321	341	362	363	345	369	359	381	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	21 357	22 389	23 586	24 622	25 526	25 620	26 933	26 885	27 210	28 097	30 304	32 401	34 458	36 372	36 924	35 939	38 090	39 656	39 888	40 960	41 797	42 432	43 088	44 381	45 280	44 195	41 451	44 526	43 283	43 547	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	28 798	30 188	31 802	33 199	34 419	34 546	36 316	36 252	36 690	37 886	40 862	43 689	46 462	49 043	49 788	48 459	51 360	53 472	53 784	55 230	56 358	57 215	58 098	59 842	61 055	59 592	55 892	60 037	64 039	64 429	GDP, PPP (constant 2021 USD)
Nominal (current USD)	13 486	15 466	17 976	20 396	22 503	23 497	25 757	25 230	24 666	23 977	24 928	26 650	28 224	30 594	31 516	30 698	32 550	35 142	36 731	38 404	40 315	42 432	43 734	46 160	48 538	48 359	46 109	49 765	48 828	50 565	Nominal (current USD)
Nominal GDP & its components (billion of current HKD) ¹¹																															Nominal GDP & its components (billion of current HKD) ¹¹
Gross domestic product	599	691	807	931	1 050	1 119	1 338	1 321	1 297	1 257	1 317	1 412	1 503	1 651	1 707	1 659	1 776	1 934	2 037	2 138	2 260	2 398	2 491	2 660	2 835	2 845	2 676	2 868	2 809	2 984	Gross domestic product
Household final consumption expenditure	344	409	476	545	629	696	784	788	753	723	771	812	869	982	1 026	1 014	1 090	1 224	1 315	1 413	1 503	1 593	1 650	1 784	1 936	1 974	1 775	1 863	1 863	2 088	Household final consumption expenditure
General government final consumption expenditure	41	49	62	70	79	90	125	135	138	138	136	131	132	139	148	153	157	169	185	199	214	231	248	261	281	309	341	364	403	397	General government final consumption expenditure
Gross fixed capital formation	157	182	219	251	308	338	355	341	295	272	287	302	337	340	351	340	387	455	517	516	531	537	535	576	612	521	456	483	451	506	Gross fixed capital formation
Stock change	5.7	4.1	8.2	2.3	21	46	14	-4.1	5.7	9.1	7.1	-4.8	-2.1	13	8.5	23	38	12	-3.7	-1.7	7.5	- 21	0.4	11	11	-3.1	52	-1.9	- 24	- 24	Stock change
Exports of goods and services	703	825	990	1 121	1 252	1 412	1 686	1 622	1 713	1 895	2 210	2 506	2 784	3 077	3 303	2 956	3 647	4 117	4 397	4 739	4 816	4 698	4 658	5 024	5 340	5 054	4 718	5 851	5 463	5 275	Exports of goods and services
Imports of goods and services	652	778	948	1 058	1 240	1 462	1 627	1 560	1 608	1 780	2 095	2 333	2 616	2 901	3 129	2 825	3 543	4 043	4 374	4 726	4 811	4 641	4 601	4 997	5 346	5 010	4 666	5 691	5 348	5 257	Imports of goods and services
Real GDP & its components (billion of 2019 HKD) ¹¹																															Real GDP & its components (billion of 2019 HKD) ¹¹
Gross Domestic Product	1 058	1 119	1 189	1 262	1 338	1 370	1 560	1 568	1 594	1 643	1 786	1 918	2 053	2 185	2 232	2 177	2 324	2 436	2 478	2 555	2 625	2 688	2 746	2 851	2 932	2 883	2 694	2 868	2 762	2 899	Gross Domestic Product
Household final consumption expenditure	664	725	788	850	905	920	1 005	1 019	1 008	992	1 063	1 101	1 168	1 269	1 293	1 295	1 374	1 490	1 551	1 623	1 677	1 757	1 792	1 890	1 990	1 974	1 765	1 863	1 822	1 991	Household final consumption expenditure
General government final consumption expenditure	122	132	150	154	160	165	189	201	207	212	215	209	211	218	222	228	235	241	250	256	264	273	283	291	303	318	343	364	393	387	General government final consumption expenditure
Gross fixed capital formation	241	264	288	296	341	366	385	395	380	385	398	414	444	458	464	448	482	532	568	583	582	563	563	580	590	502	446	483	447	503	Gross fixed capital formation
Stock change	11	8.0	12	4.5	37	72	23	-7.8	10	16	13	-7.6	-2.2	20	12	35	55	16	-3.8	-1.3	8.9	- 23	0.5	13	13	-2.9	54	-1.9	- 22	- 21	Stock change
Exports of goods and services	917	1 044	1 228	1 377	1 504	1 654	2 132	2 109	2 290	2 590	3 007	3 373	3 716	4 022	4 164	3 784	4 449	4 663	4 812	5 189	5 239	5 167	5 203	5 507	5 708	5 357	4 999	5 851	5 118	5 109	Exports of goods and services
Imports of goods and services	880	1 030	1 245	1 390	1 575	1 774	2 153	2 132	2 282	2 543	2 909	3 180	3 495	3 812	3 935	3 619	4 279	4 519	4 710	5 100	5 153	5 062	5 106	5 444	5 688	5 276	4 914	5 691	4 995	5 070	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Agriculture, Fishery and Forestry
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.3	10.8	10.3	9.5	8.6	7.9	7.2	6.7	6.7	6.5	6.6	6.9	7.0	6.9	7.2	7.2	7.3	7.0	7.0	6.6	6.3	6.0	6.5	6.5	Industry
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	84.2	85.3	86.4	87.5	88.3	88.6	88.4	89.0	89.2	89.9	90.0	90.3	90.4	90.1	89.8	89.2	89.3	89.1	89.3	90.2	90.1	89.7	90.0	91.2	Services, etc.
Manufacturing production index (2010=100) ¹²	162.5	163.5	166.8	165.8	165.5	166.9	135.6	129.6	117.0	106.2	109.3	112.0	114.5	112.9	105.3	96.6	100.0	100.8	100.0	100.0	99.7	98.1	97.7	98.1	99.3	99.8	93.9	99.1	99.3	103.0	Manufacturing production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	82.4	98.7	119.6	135.4	151.5	173.9	202.7	191.1	201.9	228.7	265.5	292.1	322.7	349.4	370.2	329.4	400.7	455.6	492.9	535.5	524.1	510.5	516.6	549.9	568.5	534.9	548.8	669.9	609.9	573.9	Exports, f.o.b.
Imports, c.i.f.	84.7	103.9	127.3	141.3	165.9	196.1	214.0	202.0	208.0	233.2	272.9	300.2	335.8	370.1	393.0	352.2	441.4	510.9	553.5	622.3	600.8	558.8	546.5	588.9	626.6	577.8	569.8	712.4	667.6	653.7	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	20.5	20.8	24.2	24.2	24.2	31.1	30.9	26.9	25.0	13.3	3.3	-7.5	-18.9	-27.9	-32.4	-22.9	-16.7	-22.9	-32.3	-15.4	-5.3	3.2	-5.1	-16.1	Trade balance
Current account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	7.5	10.4	13.1	17.4	16.8	21.6	24.6	27.6	32.9	21.2	16.0	13.8	4.1	4.2	4.1	10.3	12.7	15.6	13.5	21.3	24.1	43.7	36.5	32.3	Current account
Overall balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	12.5	6.3	-5.1	-0.9	-2.5	0.4	5.9	2.4	28.9	81.5	12.2	10.4	19.8	0.5	12.5	30.0	0.8	38.0	-7.8	-10.2	26.6	-5.6	-45.5	-7.9	Overall balance
Foreign exchange rate (HKD/USD) ¹¹	7.79	7.77	7.74	7.74	7.73	7.74	7.79	7.80	7.80	7.79	7.79	7.78	7.77	7.80	7.79	7.75	7.77	7.78	7.76	7.76	7.75	7.75	7.76	7.79	7.84	7.84	7.76	7.77	7.83	7.83	Foreign exchange rate (HKD/USD) ¹¹
PPP conversion factor, GDP (HKD/USD) ¹¹	5.76	6.08	6.53	6.93	7.21	7.36	7.11	6.83	6.50	5.99	5.62	5.44	5.25	5.27	5.24	5.19	5.14	5.23	5.45	5.55	5.71	5.83	5.93	6.01	6.09	6.10	6.06	5.84	5.58	5.54	PPP conversion factor, GDP (HKD/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2021=100) ¹³	56.6	61.8	67.9	73.8	78.4	81.7	85.8	84.2	81.4	76.5	73.7	73.6	73.2	75.5	76.5	76.2	76.4	79.4	82.2	83.7	86.1	89.2	90.7	93.3	96.7	98.7	99.3	100.0	101.7	102.9	GDP Deflator (2021=100) ¹³
Producer Price Index (2010=100) ¹²	N.A.	N.A.	N.A.	86.7	88.5	91.0	87.7	86.3	84.0	83.7	85.6	86.2	88.2	90.8	96.0	94.3	100.0	108.3	108.4	105.1	103.3	100.5	101.8	105.6	107.7	108.8	111.3	112.6	113.6	115.4	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	57.0	63.4	69.5	75.6	82.2	89.7	95.9	94.3	91.5	89.0	88.8	89.5	91.3	93.2	97.2	97.8	100.0	105.3	109.6	114.3	119.4	123.0	125.9	127.8	130.9	134.6	135.0	137.1	139.7	142.6	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	3.8	5.7	6.2	6.2	6.0	2.4	7.7	0.6	1.7																						

Energy prices in Hong Kong, China
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency	HKD														
Exchange Rate	/ US Dollar	7.77	7.78	7.76	7.76	7.75	7.75	7.76	7.79	7.84	7.84	7.76	7.77	7.83	7.83
Coal and Coal Products															
Coking Coal															
Anthracite	HKD/tonne	1 875	6 275	5 373	2 180	2 373	2 407			6 133	3 073			4 470	3 472
Other bituminous coal	HKD/tonne	594	726	654	572	519	447	397	584	683	535	419	845	1 964	1 074
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	HKD/kg	5.95	7.40	7.89	7.58	7.16	4.58	3.64	4.50	4.89	4.21	4.08	5.72	6.47	5.34
Naphtha	HKD/L	4.39	6.12	6.24	5.99	5.61	3.37	2.60	3.26	4.19	4.29	2.46	3.77	6.20	5.17
Motor Gasoline	HKD/L	4.71	6.33	6.58	6.34	5.93	4.16	3.16	3.73	4.35	4.08	2.66	4.26	6.29	5.34
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel*	HKD/L	4.41	6.10	6.25	6.04	5.65	3.30	2.56	3.19	4.16	3.74	2.54	3.74	6.13	5.17
Other Kerosene															
Gas/Diesel Oil**	HKD/L	4.39	6.12	6.24	5.99	5.61	3.37	2.60	3.26	4.19	4.29	2.46	3.77	6.20	5.17
Fuel Oil	HKD/L	3.58	4.95	5.21	4.78	4.43	2.36	1.71	2.46	3.22	3.12	2.51	3.68	5.16	4.21
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	HKD/kg	2.33	2.57	3.13	4.09	4.64	4.58	3.47	3.47	4.12	4.29	3.61	3.86	4.93	4.74
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															
Other energy**															

* Including aviation gasoline and kerosene

** Including biodiesel

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency	HKD														
Exchange Rate	/ US Dollar	7.77	7.78	7.76	7.76	7.75	7.75	7.76	7.79	7.84	7.84	7.76	7.77	7.83	7.83
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	HKD/kg	18.14	20.01	21.78	22.94	24.33	23.47	23.47	24.07	25.75	27.74	28.93	30.75	33.36	34.11
Naphtha															
Motor Gasoline (regular)	HKD/L	13.55	15.29	15.82	15.69	15.62	13.70	13.70	13.19	13.96	15.66	15.62	16.72	19.27	19.77
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil*	HKD/L	9.68	11.61	12.16	12.46	12.56	10.86	10.67	11.87	13.50	14.29	14.23	16.57	20.59	21.65
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas (export)															
Compressed Natural Gas															
Electricity															
Industrial															
Commercial															
Residential															
Others															
Other Energy Products															

*Environmental diesel oil (road)

Indonesia

Energy balance table of Indonesia

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products											
Production	15 578		1 296								2 469	89		610	13	1.7	1 365	0.4		21 422	2 078
Import	291		776	1 253	719	9.6	196	2.7	326										3.2	2 323	
Export	-10 411		- 125	- 205		-0.1		- 92		- 113	- 668						-7.1			-11 416	-7.1
International marine bunkers				- 14			-6.5	-7.6												- 14	
International aviation bunkers				- 65		- 65														- 65	
Stock changes	-1 180		33	-7.1				3.0	- 10											-1 155	
Total primary energy supply	4 278		1 979	962	719	- 56	189	- 94	316	- 113	1 801	89		610	13	1.7	1 358	0.4	3.2	11 095	2 071
Transfers				- 148						- 148										- 148	
Total transformation sector	-2 436		-1 940	1 773	487	144	647	245	93	157	- 446	- 89		- 610	-2.6	-1.7	- 438	-0.4	1 262	-2 928	-1 141
Main activity producers	-2 436			- 92			- 82	-9.7			- 258	- 72		- 610	-0.6	-1.7	- 52	-0.4	1 164	-2 358	- 736
Autoproducers				- 58			- 53	-4.4				- 17			-1.9		- 386		98	- 364	- 404
Gas processing				48					48		- 47									1.0	
Petroleum refineries			-1 940	1 875	487	144	782	259	45	157										- 66	
Coal transformation																					
Other transformation											- 141									- 141	
Losses & own use			- 39								- 216								- 144	- 399	
Discrepancy				178	25	-6.1	85	- 78		152	- 449						- 59		31	- 299	- 59
Total final consumption	1 842			2 765	1 231	83	922	73	408	49	690				11		860		1 153	7 321	871
Total final energy consumption	1 842			2 734	1 231	83	922	73	408	18	434				11		860		1 153	7 034	871
Industry sector	1 842			139			70	62	5.9	1.0	423						345		415	3 165	345
Mining and quarrying																					
Construction																					
Iron and steel	1 208										17									1 225	
Chemical & petrochemical											167									167	
Non-ferrous metals																					
Non-metallic minerals	197										30									227	
Transportation equipment																					
Machinery																					
Food, beverages and tobacco											20									20	
Pulp, paper and printing	108										10									118	
Wood and wood products																					
Textiles and leather											3.3									3.3	
Non-specified industry	329			139			70	62	5.9	1.0	177						345		415	1 405	345
Transport sector				2 121	1 231	83	806	1.2		0.1	2.2						356		1.4	2 480	356
Domestic air transport				83	0.1	83														83	
Road				1 915	1 231		685				2.2						356			2 273	356
Rail																			1.4	1.4	
Inland waterways				123			122	1.2		0.1										123	
Non-specified transport																					
Other sector				474			45	10.0	402	16	8.1				11		160		736	1 389	171
Residential				406					391	15	6.0						133		458	1 003	133
Commerce and public services				22			9.8		11	0.8	2.1				11		13		278	325	24
Agriculture				10.0				10.0												10.0	
Fishery																					
Non-specified				36			36			0.7							14			50	14
Non-energy				31						31	256									288	
Electricity and heat output																					
Electricity generated (GWh)	217 819			6 558							61 006	24 590		16 936	713	481	22 475	31		350 608	65 194
Electricity plants	217 819			6 558							61 006	24 590		16 936	713	481	22 475	31		350 608	65 194
CHP plants																					
Heat generated (PJ)																					
Heat plants																					
CHP plants																					

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Indonesia

2022

Petajoules																						
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	13 815		1 310								2 418	98		600	7.0	1.3	1 337	0.3		19 587	2 044	Production
Import	249		671	1 274	738	15	201	3.4	316										2.9	2 197		Import
Export	-9 351		- 87	- 178		-0.1		- 69		- 109	- 667						- 14			-10 297	- 14	Export
International marine bunkers				- 13			-6.2	-7.2												- 13		International marine bunkers
International aviation bunkers				- 36		- 36														- 36		International aviation bunkers
Stock changes	- 377		34	31				38	-7.6											- 313		Stock changes
Total primary energy supply	4 335		1 928	1 077	738	- 21	194	- 34	308	- 109	1 751	98		600	7.0	1.3	1 323	0.3	2.9	11 124	2 030	Total primary energy supply
Transfers				- 152						- 152										- 152		Transfers
Total transformation sector	-2 597		-1 891	1 744	473	104	676	218	93	180	- 435	- 98		- 600	-1.6	-1.3	- 409	-0.3	1 201	-3 089	-1 111	Total transformation sector
Main activity producers	-2 597			- 86			- 79	-6.7			- 231	- 80		- 600	-0.8	-1.3	- 46	-0.3	1 109	-2 534	- 729	Main activity producers
Autoproducers				- 51			- 46	-5.2				- 18			-0.8		- 363		92	- 341	- 381	Autoproducers
Gas processing				51					51		- 59									-8.4		Gas processing
Petroleum refineries			-1 891	1 830	473	104	801	230	42	180										- 61		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation											- 144									- 144		Other transformation
Losses & own use			- 38								- 205								- 140	- 384		Losses & own use
Discrepancy	1.9			146	12	-5.8	69	- 84		156	- 382						- 27		30	- 231	- 27	Discrepancy
Total final consumption	1 740			2 815	1 223	77	939	100	401	74	728				5.4		887		1 094	7 269	892	Total final consumption
Total final energy consumption	1 740			2 758	1 223	77	939	100	401	18	472				5.4		887		1 094	6 956	892	Total final energy consumption
Industry sector	1 740			163			71	84	5.8	1.0	461						388		409	3 161	388	Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel	992										18									1 010		Iron and steel
Chemical & petrochemical											182									182		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	264										32									296		Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco											22									22		Food, beverages and tobacco
Pulp, paper and printing	127										11									138		Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather											3.6									3.6		Textiles and leather
Non-specified industry	358			163			71	84	5.8	1.0	193						388		409	1 510	388	Non-specified industry
Transport sector				2 121	1 223	77	819	1.6		0.1	1.8						338		1.2	2 462	338	Transport sector
Domestic air transport				77		77														77		Domestic air transport
Road				1 918	1 223		695				1.8						338			2 258	338	Road
Rail																			1.2	1.2		Rail
Inland waterways				125			124	1.6		0.1										125		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				474			49	14	395	17	8.5				5.4		161		683	1 333	167	Other sector
Residential				400					385	15	4.1						135		435	975	135	Residential
Commerce and public services				21			10		11	0.8	4.4				5.4		13		248	292	18	Commerce and public services
Agriculture				14				14												14		Agriculture
Fishery																						Fishery
Non-specified				40			39			0.7							13			53	13	Non-specified
Non-energy				57						57	256									313		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	205 907			6 089							56 126	27 295		16 677	444	356	20 621	22		333 537	65 393	Electricity generated (GWh)
Electricity plants	205 907			6 089							56 126	27 295		16 677	444	356	20 621	22		333 537	65 393	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Indonesia

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																										Total	
Primary energy supply	3 066	3 796	4 983	5 417	5 612	5 882	5 979	6 136	6 138	6 651	6 320	6 818	7 085	7 924	7 800	8 159	8 842	8 169	7 983	8 534	9 250	9 596	9 273	9 641	11 124	11 095	Primary energy supply
Production	6 282	7 875	8 568	8 676	8 982	9 124	9 314	9 844	10 717	11 054	11 791	12 244	12 989	14 672	15 226	17 285	16 815	16 742	16 761	16 761	19 426	20 661	19 511	21 282	19 587	21 422	Production
Import	426	661	1 066	1 245	1 458	1 564	1 887	1 941	1 471	1 567	1 488	1 556	1 609	1 786	1 830	1 993	2 089	2 026	1 988	2 141	2 103	1 802	1 673	2 026	2 197	2 323	Import
Export	-3 468	-4 626	-4 658	-4 734	-4 986	-5 192	-5 325	-5 492	-6 048	-6 311	-7 179	-7 256	-7 596	-9 043	-9 629	-10 813	-11 344	-10 916	-9 985	-8 727	-10 290	-12 201	-10 986	-12 110	-10 297	-11 416	Export
Final energy consumption	2 275	3 115	3 783	3 831	3 776	4 114	4 209	4 203	4 206	4 403	4 341	4 362	4 711	5 143	5 482	5 100	5 217	5 195	4 795	4 927	5 477	5 925	5 373	5 425	6 956	7 034	Final energy consumption
Industry	852	1 330	1 524	1 501	1 443	1 762	1 819	1 830	1 941	2 110	2 028	1 962	2 187	2 336	2 311	1 804	1 852	1 972	1 579	1 625	1 939	2 286	2 017	1 908	3 161	3 165	Industry
Transport	458	699	904	962	981	1 000	1 025	1 014	963	985	1 048	1 190	1 305	1 579	1 894	1 973	2 029	1 930	1 955	2 064	2 281	2 374	2 094	2 230	2 462	2 480	Transport
Residential	830	922	1 071	1 069	1 047	1 048	1 047	1 025	980	983	954	897	898	901	908	902	918	894	892	878	898	905	947	968	975	1 003	Residential
Commerce & public services	45	77	124	126	128	132	149	154	154	160	165	171	178	194	210	231	237	234	246	253	260	272	253	263	292	325	Commerce & public services
Others	89	87	158	172	177	171	169	180	168	164	146	141	143	133	160	190	181	165	122	107	98	87	62	56	67	60	Others
Coal and peat																											Coal and peat
Primary energy supply	144	228	565	834	868	1 158	1 073	1 235	1 421	1 784	1 565	1 756	1 901	2 376	2 011	2 312	2 893	2 703	2 217	2 639	2 966	3 381	3 226	3 367	4 335	4 278	Primary energy supply
Production	266	1 030	1 897	2 278	2 544	2 813	3 258	3 760	4 770	5 341	5 915	6 307	6 721	8 629	9 430	11 587	11 189	11 274	11 143	11 266	13 624	15 050	13 770	15 532	13 815	15 578	Production
Import	15	16	3.4	0.8	0.5	0.9	2.4	2.4	2.7	1.7	2.6	1.7	1.3	1.0	1.9	15	60	74	101	116	145	181	219	367	249	291	Import
Export	-106	-771	-1 439	-1 607	-1 826	-2 109	-2 308	-2 727	-3 536	-4 013	-4 713	-4 883	-5 081	-6 660	-7 427	-8 704	-9 330	-8 936	-8 088	-7 009	-8 705	-11 101	-9 894	-11 010	-9 351	-10 411	Export
Transformation sector	-110	-138	-339	-481	-493	-567	-564	-633	-684	-799	-765	-902	-841	-1 103	-1 291	-1 512	-1 541	-1 712	-1 842	-2 028	-2 226	-2 407	-2 562	-2 837	-2 597	-2 436	Transformation sector
Power generation	-109	-138	-338	-480	-493	-566	-563	-632	-683	-798	-764	-900	-840	-1 102	-1 290	-1 511	-1 540	-1 712	-1 842	-2 027	-2 226	-2 407	-2 561	-2 837	-2 597	-2 436	Power generation
Final energy consumption	34	89	212	218	228	400	324	385	522	715	551	484	800	837	715	248	320	408	369	342	585	974	660	529	1 740	1 842	Final energy consumption
Industry	34	89	212	218	228	400	324	385	522	715	551	484	800	837	715	248	320	408	369	342	585	974	660	529	1 740	1 842	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply			-0.1							0.1																	Primary energy supply
Production																											Production
Import																											Import
Export																											Export
Transformation sector	0.6	0.6	0.8	0.7	0.5	0.5	0.5	0.6	0.8	0.5	0.9	1.3	0.7	0.7	0.8	0.8	0.3	0.3	0.6	0.6	0.2	0.2	1.1				Transformation sector
Power generation																											Power generation
Final energy consumption	0.6	0.6	0.4	0.5	0.5	0.4	0.5	0.6	0.8	0.6	0.9	1.3	0.7	0.7	0.8	0.8	0.3	0.3	0.6	0.6	0.2	0.2	1.1				Final energy consumption
Industry	0.6	0.6	0.4	0.5	0.5	0.4	0.5	0.6	0.8	0.6	0.9	1.3	0.7	0.7	0.8	0.8	0.3	0.3	0.6	0.6	0.2	0.2	1.1				Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	1 637	1 958	2 154	2 161	2 140	2 143	2 188	2 138	1 992	1 973	1 932	1 975	1 788	1 919	1 789	1 794	1 850	1 622	1 937	1 932	1 997	2 003	1 808	1 796	1 928	1 979	Primary energy supply
Production	3 127	3 436	3 033	2 868	2 673	2 457	2 348	2 265	2 151	2 042	2 095	2 030	2 022	1 930	1 844	1 763	1 688	1 681	1 783	1 714	1 652	1 594	1 520	1 409	1 310	1 296	Production
Import	271	406	461	687	728	804	870	961	681	679	557	704	593	568	563	694	715	801	870	830	739	524	467	612	671	776	Import
Export	-1 680	-1 769	-1 310	-1 416	-1 278	-1 108	-1 048	-936	-791	-793	-791	-775	-788	-664	-624	-614	-546	-674	-736	-602	-437	-152	-184	-257	-87	-125	Export
Transformation sector	-1 640	-1 956	-2 145	-2 149	-2 131	-2 125	-2 167	-2 113	-1 969	-1 961	-1 926	-1 974	-1 789	-1 921	-1 796	-1 800	-1 858	-1 641	-2 009	-1 947	-2 004	-2 140	-1 957	-1 956	-1 891	-1 940	Transformation sector
Petroleum refineries	-1 640	-1 956	-2 145	-2 149	-2 131	-2 125	-2 167	-2 113	-1 969	-1 961	-1 926	-1 974	-1 789	-1 921	-1 796	-1 800	-1 858	-1 641	-2 009	-1 947	-2 004	-2 140	-1 957	-1 956	-1 891	-1 940	Petroleum refineries
Petroleum products																											Petroleum products
Primary energy supply	-502	-467	75	207	332	275	547	463	413	668	488	552	656	1 054	1 461	1 450	1 434	1 219	1 074	1 204	1 194	1 043	799	901	1 077	962	Primary energy supply
Import	140	239	601	558	730	759	1 014	978	787	887	928	851	1 015	1 217	1 266	1 284	1 314	1 151	1 015	1 191	1 214	1 092	982	1 043	1 274	1 253	Import
Export	-581	-754	-460	-395	-388	-427	-431	-308	-237	-61	-230	-226	-220	-180	-166	-162	-196	-142	-78	-90	-85	-94	-121	-77	-178	-205	Export
Transformation sector	1 646	2 034	1 877	1 827	1 677	1 654	1 600	1 618	1 598	1 312	1 531	1 543	1 460	1 535	1 515	1 530	1 752	1 777	1 809	1 918	1 843	1 963	1 827	1 622	1 744	1 773	Transformation sector
Power generation	-174	-120	-202	-217	-280	-311	-350	-336	-317	-332	-369	-336	-319	-371	-321	-287	-293	-217	-192	-163	-295	-183	-130	-141	-137	-149	Power generation
Petroleum refineries	1 595	1 944	2 017	1 977	1 896	1 911	1 897	1 908	1 889	1 618	1 857	1 812	1 693	1 832	1 751	1 749	1 959	1 917	1 936	2 027	2 086	2 093	1 907	1 714	1 830	1 875	Petroleum refineries
Final energy consumption	1 054	1 464	1 868	1 934	1 894	1 907	2 086	2 005	1 859	1 908	1 907	1 985	2 020	2 343	2 759	2 810	2 787	2 752	2 539	2 643	2 786	2 717	2 374	2 514	2 758	2 734	Final energy consumption
Industry	227	324	344	342	295	292	440	380	341	371	361	348	296	353	415	350	320	366	237	225	193	132	115	131	163	139	Industry
Transport	458	699	903	961	980	999	1 024	1 013	962	985	1 047	1 184	1 295	1 564	1 867	1 931	1 939	1 878	1 832	1 938	2 111	2 121	1 812	1 925	2 121	2 121	Transport
Residential	255	317	403	399	382	388	390	371	335	339	309	270	252	253	267	289	303	309	316	341	358	366	376	391	400	406	Residential
Commerce & public services	25	37	59	60	59	56	63	60	53	49	44	41	34	41	50	49	45	34	33	31	26	20	20	22	21	22	Commerce & public services
Others	89	87	158	172</																							

Major economic indicators of Indonesia

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	182.16	185.36	188.56	191.74	194.93	198.14	214.07	217.11	220.12	223.08	225.94	228.81	231.80	234.86	237.94	240.98	244.02	247.10	250.22	253.28	256.23	259.09	261.85	264.50	267.07	269.58	271.86	273.75	275.50	281.19	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	270	289	307	327	352	381	395	409	428	448	471	498	525	558	592	619	658	698	741	782	821	861	904	950	999	1 049	1 028	1 066	1 122	1 179	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	823	879	936	997	1 072	1 160	1 203	1 247	1 303	1 366	1 434	1 516	1 599	1 701	1 803	1 887	2 004	2 128	2 256	2 381	2 501	2 622	2 754	2 894	3 044	3 197	3 131	3 247	3 718	3 906	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	106	117	128	158	177	202	165	160	196	235	257	286	365	432	510	540	755	893	918	913	891	861	932	1 016	1 042	1 119	1 059	1 187	1 319	1 371	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	1 484	1 557	1 630	1 707	1 806	1 922	1 845	1 886	1 944	2 009	2 084	2 175	2 265	2 377	2 488	2 570	2 696	2 826	2 960	3 086	3 203	3 323	3 453	3 592	3 741	3 892	3 780	3 893	4 074	4 193	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	4 520	4 743	4 965	5 200	5 501	5 856	5 621	5 744	5 921	6 122	6 348	6 626	6 900	7 242	7 578	7 829	8 213	8 611	9 016	9 402	9 759	10 122	10 519	10 942	11 397	11 858	11 516	11 859	13 495	13 890	GDP, PPP (constant 2021 USD)
Nominal (current USD)	583	629	679	824	907	1 020	771	739	889	1 052	1 137	1 249	1 573	1 840	2 144	2 239	3 094	3 614	3 668	3 603	3 477	3 323	3 559	3 840	3 903	4 151	3 896	4 334	4 788	4 876	Nominal (current USD)
Nominal GDP & its components (billion of current IDR) ¹¹																															Nominal GDP & its components (billion of current IDR) ¹¹
Gross domestic product	196	455	533	628	956	1 100	1 390	1 646	1 822	2 014	2 296	2 774	3 339	3 951	4 949	5 606	6 864	7 832	8 616	9 546	10 570	11 526	12 402	13 590	14 839	15 833	15 443	16 977	19 588	20 892	Gross domestic product
Household final consumption expenditure	124	280	332	387	648	813	857	1 040	1 232	1 372	1 533	1 786	2 093	2 511	3 000	3 291	3 859	4 341	4 858	5 425	6 039	6 622	7 172	7 784	8 455	9 172	9 101	9 444	10 391	11 371	Household final consumption expenditure
General government final consumption expenditure	19	36	40	43	54	73	91	113	132	164	191	225	288	330	417	538	618	709	797	909	996	1 124	1 182	1 239	1 339	1 395	1 491	1 569	1 505	1 557	General government final consumption expenditure
Gross fixed capital formation	60	129	158	178	243	221	276	324	354	393	515	656	806	986	1 371	1 744	2 128	2 452	2 819	3 051	3 437	3 782	4 040	4 371	4 791	5 121	4 897	5 228	5 697	6 091	Gross fixed capital formation
Stock change	4.2	9	11	13	19	22	33	47	36	123	37	40	42	- 1	6	- 7	129	131	203	178	220	144	159	211	339	227	98	111	129	249	Stock change
Exports of goods and services	53	120	138	175	506	391	569	643	596	614	740	945	1 036	1 163	1 475	1 354	1 668	2 062	2 119	2 284	2 501	2 439	2 367	2 742	3 117	2 944	2 677	3 634	4 800	4 545	Exports of goods and services
Imports of goods and services	50	126	141	177	413	302	423	506	481	466	632	830	856	1 003	1 423	1 197	1 538	1 868	2 153	2 359	2 581	2 395	2 274	2 606	3 275	3 014	2 415	3 190	4 106	4 091	Imports of goods and services
Real GDP & its components (billion of 2019 IDR) ¹¹																															Real GDP & its components (billion of 2019 IDR) ¹¹
Gross Domestic Product	2 820	3 974	4 285	4 487	3 898	3 928	4 122	4 272	4 464	4 678	4 913	5 193	5 478	5 826	6 176	6 462	6 864	7 288	7 727	8 156	8 565	8 983	9 435	9 913	10 426	10 949	10 723	11 120	11 710	12 301	Gross Domestic Product
Household final consumption expenditure	1 510	2 142	2 350	2 534	2 378	2 488	2 527	2 615	2 716	2 822	2 962	3 079	3 176	3 335	3 513	3 684	3 859	4 054	4 278	4 512	4 750	4 980	5 232	5 492	5 774	6 072	5 911	6 029	6 328	6 640	Household final consumption expenditure
General government final consumption expenditure	261	306	315	315	266	268	286	307	347	382	397	424	464	482	533	616	618	652	682	728	736	775	774	791	829	856	874	911	871	897	General government final consumption expenditure
Gross fixed capital formation	871	1 334	1 527	1 658	1 111	909	1 061	1 130	1 183	1 190	1 365	1 513	1 552	1 697	1 899	1 961	2 128	2 316	2 528	2 654	2 772	2 911	3 042	3 229	3 444	3 598	3 419	3 549	3 687	3 825	Gross fixed capital formation
Stock change	5 270	8 170	3 027	1 722	- 3 292	- 4 959	- 7 109	- 8 938	- 2 795	- 9 825	- 5 361	- 7 157	- 6 200	52	- 464	441	129	118	174	124	164	113	133	127	197	130	51	63	71	128	Stock change
Exports of goods and services	458	795	855	922	1 025	699	884	890	879	931	1 056	1 232	1 348	1 463	1 602	1 447	1 668	1 914	1 945	2 026	2 048	2 004	1 971	2 147	2 286	2 275	2 084	2 458	2 858	2 896	Exports of goods and services
Imports of goods and services	477	903	965	1 106	1 048	622	783	816	781	793	1 005	1 183	1 285	1 401	1 541	1 310	1 538	1 769	1 910	1 946	1 987	1 863	1 818	1 965	2 203	2 046	1 686	2 105	2 421	2 382	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	19.5	18.6	18.6	17.7	16.6	16.0	16.5	16.4	16.3	16.1	15.8	15.3	15.0	14.6	14.5	14.4	13.9	13.6	13.5	13.3	13.2	13.0	12.8	12.7	12.5	12.4	12.9	12.6	12.3	11.8	Agriculture, Fishery and Forestry
Industry	42.2	43.4	43.1	43.4	44.9	45.8	47.7	47.3	47.2	46.8	46.3	45.8	45.4	44.7	43.7	43.3	42.8	42.8	42.6	42.1	41.8	41.0	40.5	40.2	39.8	39.4	39.1	39.0	38.5	38.5	Industry
Services, etc.	391.4	387.0	392.0	423.0	442.8	470.2	494.2	481.9	448.6	433.6	446.7	451.8	442.4	464.2	456.7	417.9	451.5	463.9	474.1	472.5	495.2	495.8	524.7	542.8	548.0	564.6	544.8	541.2	603.0	620.9	Services, etc.
Industrial production index (2010=100) ¹²	43.3	47.2	52.7	58.6	68.9	69.3	74.3	77.5	80.0	84.4	87.2	88.3	86.9	91.7	94.5	95.9	100.0	104.1	108.4	114.9	120.4	126.1	131.2	137.4	144.9	N.A.	N.A.	N.A.	149.4	0.0	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	25.7	29.1	34.0	36.8	40.1	45.4	65.4	57.4	59.2	64.1	70.8	87.0	103.5	118.0	139.6	119.6	157.8	203.5	190.0	182.6	176.3	150.4	144.5	168.8	180.1	167.7	163.3	231.5	292.0	258.9	Exports, f.o.b.
Imports, c.i.f.	21.8	25.9	27.3	28.3	32.0	40.6	43.6	37.5	38.3	42.2	54.9	75.7	80.7	93.1	127.5	93.8	135.7	177.4	191.7	186.6	178.2	142.7	135.7	156.9	188.7	171.3	141.6	196.2	237.4	221.9	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	5.4	4.8	7.0	8.2	7.9	6.5	25.0	22.7	23.5	24.6	19.5	17.6	32.2	34.5	24.5	32.3	31.0	33.8	8.7	5.8	7.0	14.0	15.3	18.8	-0.2	3.5	28.2	0.0	62.7	0.0	Trade balance
Current account	-3.0	-4.3	-2.8	-2.1	-2.8	-6.4	8.0	6.9	7.8	8.1	1.6	0.3	10.9	10.5	0.1	10.6	5.1	1.7	-24.4	-29.1	-27.5	-17.5	-17.0	-16.2	-30.6	-30.3	-4.5	0.0	13.2	0.0	Current account
Overall balance	1.5	1.4	3.3	3.5	1.0	3.8	0.1	-0.7	6.7	7.2	0.9	-2.0	13.9	14.1	-1.7	15.5	31.7	15.3	1.2	-7.1	17.4	-0.7	12.4	12.5	-5.4	6.3	3.4	0.0	4.5	0.0	Overall balance
Foreign exchange rate (IDR/USD) ¹¹	1 843	1 950	2 030	2 087	2 161	2 249	8 422	10 261	9 311	8 577	8 939	9 705	9 159	9 141	9 699	10 390	9 090	8 770	9 387	10 461	11 865	13 389	13 308	13 381	14 237	14 148	14 582	14 308	14 850	15 237	Foreign exchange rate (IDR/USD) ¹¹
PPP conversion factor, GDP (IDR/USD) ¹¹	350	368	386	450	475	511	1 387	1 550	1 616	1 672	1 767	1 959	2 168	2 349	2 723	2 930	3 337	3 513	3 570	3 766	4 031	4 353	4 518	4 696	4 761	4 751	4 671	4 739	4 922	4 820	PPP conversion factor, GDP (IDR/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2010=100) ¹³	6.9	7.6	8.1	9.7	10.4	11.4	33.7	38.5	40.8	43.1	46.7	53.4	61.0	67.8	80.1	86.8	100.0	107.5	111.5	117.0	123.4	128.3	131.4	137.1	142.3	144.6	144.0	152.7	167.3	169.8	GDP Deflator (2010=100) ¹³
Producer Price Index (2010=100) ¹²	29.0	34.0	35.2	35.2	38.2	40.3	55.0	59.2	62.2	65.3	70.8	78.8	85.4	88.1	98.5	94.4	100.0	108.7	109.9	111.8	115.7	117.6	118.7	120.9	123.3	125.3	128.3	0.0	111.2	0.0	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	12.7	13.8	14.9	16.3	17.7	19.4	44.0	49.1	54.9	58.6	62.2	68.7	77.7	82.7	91.1	95.1	100.0	105.4	109.9	116.9	124.4	132.3	137.0	1							

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	IDR / US Dollar	9 090	8 770	9 387	12 189	12 440	13 795	13 436	13 548	14 038	13 901	14 105	14 269	15 731	15 241
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal	USD/tonne				82.92	72.62	60.13	61.84	85.92	98.96	77.89	58.17	121.47	276.58	201.15
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil	USD/BBL				105.85	96.51	49.21	40.13	51.19	67.47	62.37	40.39	68.47	97.03	78.43
Natural Gas Liquids															
Ethane															
Propane															
Butane															
Naphtha															
Motor Gasoline															
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil															
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	IDR / US Dollar	9 090	8 770	9 387	12 189	12 440	13 795	13 436	13 548	14 038	13 901	14 105	14 269	15 731	15 241
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal	USD/BOE			18.00	18.00	19.00	11.00	11.00	14.00	13.00	13.00	15.00	13.00	13.00	16.00
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG (12 kg)	USD/BOE			71.00	61.00	97.00	104.00	101.00	104.00	104.00	105.00	103.00	131.00	150.00	153.00
Naphtha															
Motor Gasoline (regular)															
RON 88	USD/BOE			80.00	78.00	93.00	90.00	84.00	82.00	79.00	80.00	79.00	78.00	109.00	111.00
RON92	USD/BOE			178.00	185.00	205.00	167.00	144.00	161.00	197.00	186.00	170.00	170.00	263.00	253.00
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	USD/BOE			165.00	139.00	123.00	113.00	91.00	105.00	122.00	120.00	110.00	150.00	204.00	185.00
Other Kerosene	USD/BOE			35.00	35.00	34.00	31.00	31.00	31.00	30.00	30.00	30.00	30.00	27.00	27.00
Gas/Diesel Oil															
CN 48	USD/BOE			72.00	64.00	71.00	76.00	61.00	59.00	57.00	57.00	56.00	56.00	56.00	68.00
CN 53	USD/BOE			176.00	190.00	212.00	184.00	142.00	145.00	184.00	199.00	173.00	190.00	320.00	275.00
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas (export)															
Compressed Natural Gas															
Electricity															
Industrial	USD/BOE			120.00	107.00	128.00	135.00	128.00	131.00	126.00	129.00	126.00	124.00	112.00	114.00
Commercial	USD/BOE			163.00	149.00	166.00	152.00	146.00	150.00	145.00	148.00	143.00	141.00	130.00	133.00
Residential	USD/BOE			107.00	93.00	99.00	99.00	102.00	127.00	128.00	129.00	115.00	117.00	117.00	122.00
Others															
Other Energy Products															

Japan

Energy balance table of Japan

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat ³	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production	15		13								70	271	917	128	353	38	345	256		2 405	1 134
Import	4 131	27	5 177	1 728	117	60	45	21	474	1 012	3 196						121			14 381	121
Export	-0.1	- 14		- 537	- 127	- 32	- 201	- 124	-1.2	- 52										- 552	
International marine bunkers				- 180			-0.9	- 178		-0.8										- 180	
International aviation bunkers				- 307		- 307														- 307	
Stock changes		0.4	13	8.4	2.3	-2.9	-4.8	-0.2	6.4	7.7	75									97	
Total primary energy supply	4 146	13	5 204	712	-8.1	- 283	- 162	- 281	479	967	3 341	271	917	128	353	38	466	256		15 844	1 255
Transfers				-3.1	-0.3	-3.7	1.9	-5.5	- 36	40										-3.1	
Total transformation sector	-3 851	557	-5 170	4 907	1 455	414	1 601	461	- 33	1 009	-2 216	- 271	- 917	- 122	- 347	- 38	- 290	- 167	3 601	-4 322	-1 068
Main activity producers	-2 307	- 111	-1.6	- 175			- 16	- 104	-1.2	- 55	-2 154	- 261	- 917	- 84	- 87	- 31	- 207	- 129	2 993	-3 472	- 670
Autoproducers	- 119	- 88		- 129			- 10	- 32	-5.2	- 81	- 148	-9.3		- 38	- 260	-6.7	- 82	- 34	603	- 312	- 397
Gas processing				- 91					- 86	-4.3	86						-0.1			-4.5	-0.1
Petroleum refineries			-5 319	5 473	1 455	414	1 626	597	116	1 266										154	
Coal transformation	-1 424	755		- 13						- 13								-3.7		- 686	
Other transformation			151	- 159					- 56	- 103							-0.2		5.4	-2.6	-0.2
Losses & own use	- 10	- 95		- 247			-5.6	- 36	-2.9	- 203	- 33								- 386	- 772	
Discrepancy	17	- 76	- 34	- 174	- 16	25	12	7.3	-7.2	- 195	-1.5						-0.8	-0.3	- 20	- 290	-0.8
Total final consumption	302	399		5 195	1 431	153	1 447	145	401	1 618	1 090			5.4	5.5		176	89	3 196	10 457	187
Total final energy consumption	302	374		4 159	1 431	153	1 441	130	291	713	1 082			5.4	5.5		176	89	3 196	9 387	187
Industry sector	302	368		671			176	55	74	367	432						109	48	1 108	3 037	109
Mining and quarrying		0.1		8.0			7.8			0.2									3.1	11	
Construction				60			55		0.5	4.7	1.8								22	84	
Iron and steel	73	324		45			7.9	1.9	16	20	92						0.2	0.6	219	754	0.2
Chemical & petrochemical	89	23		338			21	17	20	280	80						1.5	6.9	180	718	1.5
Non-ferrous metals	1.1	7.0		14			5.2	3.2	2.4	3.5	15							1.7	40	80	
Non-metallic minerals	94	12		75			23	15	4.1	33	28						7.1	26	53	294	7.1
Transportation equipment		2.7		12			3.0		6.4	2.8	24								87	126	
Machinery				26			8.8		8.8	8.5	56								217	298	
Food, beverages and tobacco				43			26	0.5	10.0	6.2	70						3.2		86	202	3.2
Pulp, paper and printing	44			27			5.1	17	2.3	3.0	31						92	13	111	318	92
Wood and wood products				4.8			3.7	0.1	0.1	0.9	0.6						4.2		8.6	18	4.2
Textiles and leather				6.9			3.3	0.5	1.6	1.4	8.7						0.8		13	29	0.8
Non-specified industry	0.4			10			5.7	0.2	2.2	1.9	25								69	105	
Transport sector				2 611	1 431	143	946	75	16		0.6						19		58	2 688	19
Domestic air transport				143	0.1	143														143	
Road				2 338	1 431		892		16		0.6						19			2 358	19
Rail				6.1			6.1												58	64	
Inland waterways				123			48	75												123	
Non-specified transport																					
Other sector		5.9		878		9.9	319	0.6	201	347	649			5.3	5.5		48	41	2 029	3 661	59
Residential				390					160	230	346			2.5	4.8		0.2		904	1 647	7.4
Commerce and public services		5.9		327		9.9	174	0.6	41	101	303			2.1	0.7		48	17	1 082	1 787	51
Agriculture				94			78			16				0.3					9.6	104	0.4
Fishery				67			66			0.4				0.1					3.6	70	0.1
Non-specified														0.3				24	29	53	0.3
Non-energy		25		1 036			6.2	15	110	905	8.4									1 069	
Electricity and heat output																					
Electricity generated (GWh)	262 890	20 947	163	29 992			2 457	13 185	574	5 191	330 539	75 154	84 055	3 400	96 459	10 492	41 019	37 694	163	992 805	226 525
Electricity plants	262 890	20 947	163	29 992			2 457	13 185	574	5 191	330 539	75 154	84 055	3 400	96 459	10 492	41 019	37 694	163	992 805	226 525
CHP plants																					
Heat generated (PJ)	5			2				1		2	11							3		30	
Heat plants	5			2				1		2	11							3		30	
CHP plants																					

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.
3. Heat data in Japan includes heat from district heating plants and chilled water from district cooling plants.

Energy balance table of Japan

2022

Petajoules																						
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat ³	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	16		14								75	277	612	113	339	33	331	258		2 068	1 093	Production
Import	4 523	25	5 613	1 737	78	32	18	78	503	1 029	3 474						116			15 487	116	Import
Export	-0.1	-23		-713	-143	-75	-292	-126	-2.1	-73										-736		Export
International marine bunkers				-200			-0.9	-198		-0.8										-200		International marine bunkers
International aviation bunkers				-205		-205														-205		International aviation bunkers
Stock changes		-3.9	86	-21	-1.5	3.6	-1.1	-6.3	-7.9	-7.8	-82									-20		Stock changes
Total primary energy supply	4 539	-2.4	5 713	599	-67	-244	-277	-253	493	947	3 467	277	612	113	339	33	447	258		16 395	1 209	Total primary energy supply
Transfers				-2.4	0.6	-3.3	0.9	-4.5	-27	31										-2.4		Transfers
Total transformation sector	-4 065	602	-5 602	5 190	1 523	383	1 754	468	-30	1 092	-2 277	-277	-612	-107	-333	-33	-262	-170	3 657	-4 290	-1 013	Total transformation sector
Main activity producers	-2 456	-106	-6.6	-264			-12	-169	-5.1	-78	-2 220	-267	-612	-78	-80	-28	-188	-133	3 037	-3 401	-641	Main activity producers
Autoproducers	-131	-86		-152			-10	-38	-6.3	-97	-149	-11		-29	-253	-5.8	-73	-33	616	-308	-372	Autoproducers
Gas processing				-97					-92	-5.1	92						-0.1			-4.8	-0.1	Gas processing
Petroleum refineries			-5 761	5 892	1 523	383	1 776	675	131	1 405										132		Petroleum refineries
Coal transformation	-1 478	794		-16						-16								-4.8		-704		Coal transformation
Other transformation			166	-174					-58	-116							-0.3		4.4	-4.1	-0.3	Other transformation
Losses & own use	-28	-100	-0.6	-255			-4.6	-42	-3.6	-205	-30								-362	-776		Losses & own use
Discrepancy	-106	-91	-109	-182	-17	5.7	17	-10.0	1.7	-179	-26						-4.5	0.2	-19	-538	-4.5	Discrepancy
Total final consumption	339	409	1.6	5 349	1 439	140	1 490	159	434	1 686	1 134			5.4	6.0		180	88	3 277	10 789	191	Total final consumption
Total final energy consumption	339	380		4 261	1 439	140	1 486	138	322	735	1 124			5.4	6.0		180	88	3 277	9 660	191	Total final energy consumption
Industry sector	339	374		698			187	57	83	371	443						113	48	1 140	3 157	113	Industry sector
Mining and quarrying		0.1		8.1			7.9			0.2									3.1	11		Mining and quarrying
Construction				60			55		0.6	4.5	1.9								22	85		Construction
Iron and steel	86	328		43			8.6	2.3	14	17	91						0.2	1.1	225	774	0.2	Iron and steel
Chemical & petrochemical	98	25		351			23	16	22	290	81						1.5	6.8	189	751	1.5	Chemical & petrochemical
Non-ferrous metals	0.9	7.2		16			5.9	3.4	2.9	3.4	16							1.3	42	83		Non-ferrous metals
Non-metallic minerals	106	11		76			24	15	5.0	31	30						7.1	25	55	312	7.1	Non-metallic minerals
Transportation equipment		2.8		14			3.2		7.8	2.8	24								87	128		Transportation equipment
Machinery				28			9.5		10	8.2	58								221	307		Machinery
Food, beverages and tobacco				49			30	0.7	12	6.0	73						3.2		88	213	3.2	Food, beverages and tobacco
Pulp, paper and printing	48			31			5.6	18	2.9	3.6	32						96	13	116	336	96	Pulp, paper and printing
Wood and wood products				4.9			3.8	0.1	0.1	0.9	0.6						4.2		8.8	18	4.2	Wood and wood products
Textiles and leather				7.8			3.8	0.7	2.0	1.4	9.1						0.8		13	31	0.8	Textiles and leather
Non-specified industry	0.4			11			6.4	0.3	2.7	1.8	27								70	108		Non-specified industry
Transport sector				2 612	1 439	136	940	80	17		0.7						18		58	2 689	18	Transport sector
Domestic air transport				136	0.1	136														136		Domestic air transport
Road				2 339	1 439		883		17		0.7						18			2 358	18	Road
Rail				6.1			6.1												58	64		Rail
Inland waterways				131			51	80												131		Inland waterways
Non-specified transport																						Non-specified transport
Other sector		5.9		951		4.8	359	0.8	222	364	680			5.3	6.0		49	40	2 078	3 814	60	Other sector
Residential				422					171	251	363			2.5	5.3		0.2		929	1 723	7.9	Residential
Commerce and public services		5.9		368		4.8	214	0.8	51	97	316			2.1	0.7		48	17	1 107	1 866	51	Commerce and public services
Agriculture				94			78			16				0.3					9.6	104	0.4	Agriculture
Fishery				67			66			0.4				0.1					3.6	70	0.1	Fishery
Non-specified														0.3				23	28	51	0.3	Non-specified
Non-energy		29	1.6	1 088			4.0	21	112	951	10									1 129		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	287 239	20 939	665	42 133			2 168	20 531	1 071	7 557	344 303	77 022	56 070	2 980	92 604	9 295	37 356	38 090	663	1008 694	219 256	Electricity generated (GWh)
Electricity plants	287 239	20 939	665	42 133			2 168	20 531	1 071	7 557	344 303	77 022	56 070	2 980	92 604	9 295	37 356	38 090	663	1008 694	219 256	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)	6			1							11							3		29		Heat generated (PJ)
Heat plants	6			1							11							3		29		Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.
3. Heat data in Japan includes heat from district heating plants and chilled water from district cooling plants.

Major energy indicators of Japan

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total	18 293	20 570	21 599	21 241	21 306	21 159	21 854	21 754	21 756	21 548	20 735	19 884	20 913	19 376	18 899	19 035	18 362	18 102	17 935	18 027	17 749	17 293	16 107	16 818	16 395	15 844	Total
Primary energy supply	3 106	4 074	4 374	4 316	4 086	3 554	4 031	4 258	4 307	3 866	3 802	4 045	4 232	2 224	1 260	1 230	1 156	1 318	1 443	1 704	2 081	2 093	1 814	2 242	2 068	2 405	Primary energy supply
Production	15 967	17 527	18 153	17 525	17 941	18 333	18 565	18 583	18 401	18 819	18 313	16 788	17 846	18 210	18 756	18 959	18 226	17 964	17 630	17 557	17 015	16 506	14 925	15 530	15 487	14 381	Production
Import	- 213	- 483	- 265	- 276	- 259	- 247	- 257	- 426	- 481	- 652	- 851	- 758	- 751	- 613	- 590	- 747	- 678	- 796	- 805	- 776	- 784	- 845	- 497	- 615	- 736	- 552	Import
Export																											Export
Final energy consumption	10 758	12 037	12 515	12 416	12 574	12 405	12 546	12 659	12 555	12 468	11 783	11 352	11 630	11 462	11 290	11 296	10 986	10 751	10 617	10 706	10 505	10 288	9 770	9 833	9 660	9 387	Final energy consumption
Industry	4 500	4 513	4 296	4 166	4 220	4 152	4 178	4 251	4 268	4 239	3 846	3 645	3 811	3 839	3 765	3 754	3 640	3 521	3 458	3 463	3 493	3 353	3 155	3 265	3 157	3 037	Industry
Transport	3 026	3 596	3 732	3 762	3 702	3 672	3 674	3 638	3 583	3 482	3 355	3 270	3 292	3 212	3 178	3 142	3 056	3 049	3 017	2 991	2 953	2 899	2 611	2 643	2 689	2 688	Transport
Residential	1 552	1 849	2 001	1 964	2 022	1 966	2 008	2 055	1 981	2 003	1 941	1 939	2 068	1 971	2 007	1 990	1 929	1 846	1 820	1 914	1 733	1 747	1 858	1 762	1 723	1 647	Residential
Commerce & public services	1 421	1 833	2 211	2 243	2 343	2 323	2 388	2 428	2 453	2 471	2 404	2 225	2 208	2 205	2 106	2 197	2 153	2 102	2 048	2 073	2 091	2 043	1 887	1 932	1 866	1 787	Commerce & public services
Others	258	247	274	282	288	291	299	287	270	273	236	273	251	235	234	212	208	232	273	265	234	247	258	231	226	228	Others
Coal and peat																											Coal and peat
Primary energy supply	3 251	3 605	4 066	4 175	4 315	4 448	4 824	4 609	4 669	4 864	4 788	4 263	4 819	4 525	4 733	5 100	4 849	4 928	4 847	4 872	4 780	4 711	4 339	4 655	4 539	4 146	Primary energy supply
Production	187	148	64	61	28	29	28	27	29	28	28	26	25	26	27	31	32	31	31	32	23	18	18	15	16	15	Production
Import	3 062	3 461	4 004	4 114	4 287	4 419	4 797	4 582	4 640	4 836	4 760	4 237	4 794	4 499	4 706	5 069	4 817	4 897	4 816	4 840	4 759	4 693	4 322	4 640	4 523	4 131	Import
Export	-0.1	-0.1	-0.1	-0.3	-0.3	-0.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.8	-0.1	-0.1	-0.1	-0.1	-0.1	Export
Transformation sector	-2 972	-3 150	-3 492	-3 618	-3 768	-3 917	-3 991	-4 114	-4 075	-4 208	-4 060	-3 911	-4 231	-4 109	-4 321	-4 622	-4 483	-4 419	-4 413	-4 438	-4 318	-4 259	-3 961	-4 203	-4 065	-3 851	Transformation sector
Power generation	- 799	-1 165	-1 649	-1 775	-1 908	-2 045	-2 146	-2 277	-2 203	-2 319	-2 309	-2 278	-2 401	-2 338	-2 521	-2 810	-2 739	-2 735	-2 701	-2 735	-2 628	-2 578	-2 511	-2 623	-2 587	-2 426	Power generation
Final energy consumption	418	439	427	424	430	448	453	448	445	461	438	402	423	422	426	443	435	428	408	419	410	394	366	377	339	302	Final energy consumption
Industry	418	439	427	423	430	447	452	447	444	460	431	394	415	415	421	438	430	423	405	416	410	394	366	377	339	302	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services	0.5	0.6	0.5	0.6	0.6	0.7	0.8	0.8	0.8	0.7	6.7	7.3	8.0	7.1	5.0	5.1	5.1	5.0	3.3	3.0	0.6						Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply	- 40	- 92	-3.9	- 34	-3.2	-6.9	32	15	17	26	- 12	-7.0	14	-7.2	- 12	28	82	57	27	3.8	3.2	- 25	- 69	-4.7	-2.4	13	Primary energy supply
Production	15	18	76	51	70	73	93	81	58	64	44	13	30	26	29	64	98	80	60	38	47	21	26	63	25	27	Production
Import	- 57	- 104	- 78	- 72	- 97	- 78	- 61	- 49	- 58	- 41	- 28	- 31	- 20	- 29	- 44	- 36	- 15	- 23	- 30	- 36	- 42	- 46	- 94	- 66	- 23	- 14	Import
Export																											Export
Transformation sector	888	793	629	639	624	656	647	693	702	691	681	614	666	693	691	648	582	564	611	635	635	654	615	592	602	557	Transformation sector
Power generation	- 333	- 347	- 325	- 333	- 341	- 335	- 312	- 289	- 291	- 301	- 257	- 249	- 305	- 262	- 276	- 292	- 297	- 295	- 278	- 264	- 254	- 250	- 203	- 227	- 192	- 198	Power generation
Final energy consumption	655	534	416	403	409	421	414	459	480	493	462	428	489	488	481	468	452	445	439	454	441	440	391	387	380	374	Final energy consumption
Industry	652	532	416	403	409	421	414	459	480	491	460	426	487	485	479	465	449	442	435	450	437	435	382	381	374	368	Industry
Transport																											Transport
Residential	2.8	1.6																									Residential
Commerce & public services										1.8	1.8	2.4	2.1	2.5	2.7	3.2	2.7	3.0	3.8	4.4	4.2	5.2	8.6	6.4	5.9	5.9	Commerce & public services
Others																											

Major economic indicators of Japan

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Population (million) ¹⁾	123.48	123.96	124.43	124.83	125.18	125.47	126.84	127.15	127.45	127.72	127.76	127.77	127.85	128.00	128.06	128.05	128.07	127.83	127.63	127.45	127.28	127.14	127.08	126.97	126.81	126.63	126.26	125.68	125.12	124.52	Population (million) ¹⁾	
Gross domestic product ³⁾																															Gross domestic product ³⁾	
Real term, billion USD (constant 2015)	3 510	3 633	3 666	3 649	3 689	3 786	3 987	4 002	4 004	4 065	4 154	4 229	4 287	4 351	4 297	4 053	4 219	4 220	4 278	4 364	4 377	4 445	4 478	4 553	4 583	4 564	4 374	4 492	4 534	4 601	Real term, billion USD (constant 2015)	
GDP, billion USD (PPP, constant 2021)	4 355	4 509	4 549	4 529	4 578	4 698	4 948	4 967	4 969	5 045	5 155	5 248	5 320	5 399	5 333	5 030	5 236	5 237	5 309	5 415	5 431	5 516	5 558	5 651	5 687	5 664	5 428	5 575	5 627	5 710	GDP, billion USD (PPP, constant 2021)	
Nominal, billion USD (current)	3 186	3 648	3 981	4 537	4 999	5 546	4 968	4 375	4 183	4 520	4 893	4 831	4 602	4 580	5 107	5 289	5 759	6 233	6 272	5 212	4 897	4 445	5 004	4 931	5 041	5 118	5 054	5 039	4 262	4 213	Nominal, billion USD (current)	
GDP per capita ³⁾																															GDP per capita ³⁾	
Real term (constant 2015 USD)	28 422	29 308	29 463	29 232	29 467	30 171	31 431	31 476	31 416	31 830	32 515	33 099	33 532	33 990	33 558	31 651	32 942	33 011	33 518	34 240	34 387	34 961	35 242	35 862	36 139	36 044	34 643	35 741	36 238	36 953	Real term (constant 2015 USD)	
GDP, PPP (constant 2021 USD)	35 272	36 372	36 564	36 278	36 569	37 443	39 006	39 062	38 988	39 502	40 352	41 076	41 613	42 182	41 646	39 279	40 882	40 967	41 597	42 492	42 675	43 387	43 736	44 505	44 848	44 731	42 992	44 355	44 972	45 859	GDP, PPP (constant 2021 USD)	
Nominal (current USD)	25 801	29 428	31 993	36 345	39 934	44 198	39 169	34 406	32 821	35 387	38 299	37 813	35 992	35 779	39 876	41 309	44 968	48 760	49 145	40 899	38 475	34 961	39 375	38 834	39 751	40 416	40 029	40 095	34 066	33 836	Nominal (current USD)	
Nominal GDP & its components (billion of current JPY) ¹⁾																															Nominal GDP & its components (billion of current JPY) ¹⁾	
Gross domestic product	461 295	491 419	504 161	504 498	510 916	521 614	535 418	531 654	524 479	523 969	529 401	532 516	535 170	539 282	527 824	494 938	505 531	497 449	500 475	508 701	518 811	538 032	544 365	553 073	556 630	557 911	539 646	553 068	560 506	591 913	Gross domestic product	
Household final consumption expenditure	232 791	245 489	255 618	261 223	269 405	275 119	287 352	289 337	288 791	287 644	289 743	291 829	294 499	295 717	294 335	285 154	287 488	284 641	288 669	295 751	298 999	300 065	297 776	302 054	304 892	304 366	291 783	295 828	311 063	N.A.	Household final consumption expenditure	
General government final consumption expenditure	61 441	65 655	69 285	72 387	75 352	78 658	88 607	91 599	93 226	93 458	93 828	94 489	94 164	95 099	95 140	95 690	97 075	98 920	99 881	100 999	103 379	105 550	107 007	107 361	108 897	111 276	113 194	117 504	120 881	N.A.	General government final consumption expenditure	
Gross fixed capital formation	161 251	170 259	168 014	159 848	156 449	159 644	152 525	147 433	137 730	134 730	134 065	137 927	139 383	137 005	133 502	116 926	114 349	116 160	118 981	124 919	130 141	134 355	134 788	138 309	140 648	142 533	137 457	141 335	147 199	153 969	Gross fixed capital formation	
Stock change	2 285	2 778	1 067	422	159	1 710	- 373	128	- 1 896	- 275	1 664	806	176	1 961	3 044	-5 054	- 148	942	1 158	- 707	- 250	1 043	408	1 148	2 082	1 351	-1 337	1 494	2 880	1 007	Stock change	
Exports of goods and services	46 361	47 256	47 988	44 971	45 164	45 988	56 023	53 574	56 935	60 077	67 691	73 572	83 794	93 237	90 973	61 469	75 418	73 495	72 142	80 294	90 370	93 815	87 414	97 294	101 947	97 431	83 824	100 156	120 769	129 342	Exports of goods and services	
Imports of goods and services	42 834	40 018	37 811	34 353	35 613	39 505	48 717	50 416	50 306	51 665	57 589	66 107	76 845	83 737	89 170	59 247	68 651	76 709	80 357	92 556	103 829	96 796	83 028	93 092	101 835	99 045	85 275	103 033	141 621	137 911	Imports of goods and services	
Real GDP & its components (billion of 2019 JPY) ¹⁾																															Real GDP & its components (billion of 2019 JPY) ¹⁾	
Gross Domestic Product	432 984	448 240	452 277	450 200	455 077	467 050	491 863	493 762	493 969	501 552	512 517	521 762	528 923	536 772	530 200	500 014	520 505	520 629	527 786	538 369	539 963	548 390	552 524	561 781	565 395	563 121	539 646	554 198	559 418	567 670	Gross Domestic Product	
Household final consumption expenditure	230 754	235 876	241 243	243 842	249 412	255 554	267 139	272 617	276 130	277 881	281 553	285 863	288 517	290 696	287 402	284 772	291 408	289 880	295 760	303 468	300 717	300 065	298 785	301 929	302 626	300 738	287 369	289 619	295 860	N.A.	Household final consumption expenditure	
General government final consumption expenditure	63 081	65 613	67 384	69 701	72 337	75 103	85 057	87 084	88 745	90 402	91 386	92 111	92 318	93 691	93 609	95 452	97 239	99 402	101 075	102 569	103 556	105 550	107 254	107 345	108 430	110 489	113 110	116 916	118 857	N.A.	General government final consumption expenditure	
Gross fixed capital formation	152 374	157 210	153 715	146 752	144 127	148 747	148 473	146 470	139 386	138 508	138 913	143 036	143 607	140 516	135 145	121 598	120 013	122 677	126 078	131 263	134 179	137 240	138 831	141 067	141 910	142 688	137 457	138 110	137 350	139 389	Gross fixed capital formation	
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	30 111	31 746	33 209	33 483	34 972	36 435	47 730	44 563	48 080	52 710	60 285	64 577	71 233	77 432	78 661	60 268	75 251	75 161	75 271	75 881	82 970	85 634	87 020	92 780	96 268	94 864	83 824	93 805	99 007	101 944	Exports of goods and services	
Imports of goods and services	39 447	38 999	38 731	38 266	41 432	46 814	55 688	56 335	56 779	58 706	63 698	67 486	70 660	72 265	72 794	61 467	68 404	72 322	76 266	78 683	85 076	85 450	84 446	87 239	90 565	91 461	85 275	89 715	97 120	95 686	Imports of goods and services	
Sectoral shares of Real GDP (%) ¹⁾																															Sectoral shares of Real GDP (%) ¹⁾	
Agriculture, Fishery and Forestry	N.A.	N.A.	N.A.	N.A.	2.0	1.8	1.9	1.8	1.9	1.7	1.5	1.4	1.4	1.5	1.6	1.6	1.4	1.4	1.4	1.4	1.3	1.2	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	Agriculture, Fishery and Forestry
Industry	N.A.	N.A.	N.A.	N.A.	31.8	31.8	30.8	29.5	28.8	28.9	29.1	29.5	29.8	29.9	29.9	26.9	28.7	27.8	27.5	27.4	28.0	28.3	28.3	29.0	29.5	29.1	29.1	30.1	29.9	29.9	Industry	
Services, etc.	N.A.	N.A.	N.A.	N.A.	67.2	67.2	68.8	69.6	70.6	70.7	70.7	70.7	70.4	70.2	70.1	72.3	70.3	70.9	71.0	71.0	70.5	70.4	70.5	70.1	69.6	69.8	69.5	68.8	69.8	69.9	Services, etc.	
Industrial production index (2010=100) ²⁾	101.8	103.8	97.8	94.5	95.7	98.6	103.2	96.9	95.8	99.5	104.2	105.9	110.2	113.5	109.8	87.0	100.0	97.2	97.4	96.8	98.5	97.3	97.5	100.1	101.2	98.7	88.4	93.3	93.4	0.0	Industrial production index (2010=100) ²⁾	
External trade (billions of current USD) ¹⁾																															External trade (billions of current USD) ¹⁾	
Exports, f.o.b.	287.6	314.8	339.9	362.2	397.0	443.1	479.2	403.5	416.7	471.8	565.7	594.9	646.7	714.3	781.4	580.7	769.8	823.2	798.6	715.1	690.2	624.9	645.1	698.3	738.1	705.6	641.3	756.0	746.8	717.3	Exports, f.o.b.	
Imports, c.i.f.	235.4	237.0	233.2	241.6	275.2	335.9	379.5	349.1	337.2	382.9	454.5	515.9	579.1	622.2	762.5	552.0	694.1	855.4	885.8	833.2	812.2	648.1	607.7	672.1	748.5	721.0	635.5	769.0	897.2	785.8	Imports, c.i.f.	
Balance of payments (billion of current USD) ²⁾																															Balance of payments (billion of current USD) ²⁾	
Trade balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	118.0	72.9	96.9	108.1	133.3	107.0	95.1	120.6	55.3	58.1	108.5	-4.5	-53.5	-89.6	-99.8	-7.3	51.2	43.8	10.6	1.4	26.6	16.7	-115.7	0.0	Trade balance	
Current account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	130.7	86.2	108.9	139.4	182.0	170.1	174.7	211.7	142.1	145.7	220.9	129.6	60.1	46.4	36.4	136.5	197.0	203.2	177.3	176.6	150.0	196.5	90.2	0.0	Current account	
Overall balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	32.1	36.8	45.7	204.1	189.8	38.6	64.0	20.4	-13.0	0.0	12.9	149.1	-32.2	81.7	-15.9	-41.6	-79.6	56.5	16.2	-29.6	26.8	102.1	-13.9	0.0	Overall balance	
Foreign exchange rate (JPY/USD) ¹⁾	144.79	134.71	126.65	111.20	102.21	94.06	107.77	121.53	125.39	115.93	108.19	110.22	116.30	117.75	103.36	93.57	87.78	79.81	79.79	97.60	105.94	121.04	108.79	112.17	110.42	109.01	106.77	109.75	131.50	140.49	Foreign exchange rate (JPY/USD) ¹⁾	
PPP conversion factor, GDP (JPY/USD) ¹⁾	187.61	186.75	185.65	182.31	178.83	174.24	154.69	149.64	143.77	139.58	134.40	129.55	124.45	120.32	116.85	115.22	111.71	107.45	104.27	101.30	103.05	103.45	105.52	105.10	104.16	103.23	100.74	99.21	94.51	95.27	PPP conversion factor, GDP (JPY/USD) ¹⁾	
Price Indices																															Price Indices	
GDP Deflator (2015=100) ³⁾	106.5	109.6																														

Source	¹ : World Development Indicators, World Bank ² : International Financial Statistics, International Monetary Fund ³ : Calculated from ¹ and ² by ESTO
Note	: N.A. means "not available" : JPY means Yen, USD means United States Dollar : PPP means Purchasing Power Parity : Total population is based on the <i>de facto</i> definition of population, which counts all residents regardless of legal status or citizenship. The values shown are midyear estimates. (from WB)

Note

¹: *International Financial Statistics*, International Monetary Fund

²: Calculated from ¹ and ³ by ESTO

: N.A. means "not available"

: JPY means Yen, USD means United States Dollar

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Energy prices in Japan
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency	JPY														
Exchange Rate	/ US Dollar	86.09	78.98	82.64	99.95	109.20	120.38	108.42	111.06	110.63	108.78	106.01	109.75	135.02	143.83
Coal and Coal Products															
Coking Coal	JPY/tonne	15 081	18 680	14 319	13 495	11 863	10 557	12 015	16 325	17 716	14 980	11 094	21 829	45 770	35 478
Anthracite															
Other bituminous coal	JPY/tonne	9 818	11 334	10 493	10 788	10 115	9 096	8 772	11 405	13 346	11 018	8 413	17 967	48 549	28 040
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil	JPY/kL	45 399	56 684	59 358	69 226	61 273	37 035	32 523	39 825	50 272	46 388	28 867	54 573	87 237	77 877
Natural Gas Liquids															
Ethane															
LPG	JPY/tonne	66 137	73 099	80 213	93 177	80 574	52 957	44 734	57 814	61 587	50 171	47 268	82 278	98 135	86 430
Naphtha	JPY/kL	45 484	52 957	55 253	65 454	61 155	40 843	33 110	40 135	47 764	40 906	29 647	54 222	74 470	67 163
Motor Gasoline	JPY/kL	49 112	62 378	63 093	74 638	70 624	48 319	37 539	46 167	55 432	47 798	31 281	58 245	84 405	79 905
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	JPY/kL	62 264	68 431	70 646	81 522	71 333	45 793	47 585	53 127	60 899	54 260	38 832	66 011	102 079	98 706
Other Kerosene	JPY/kL	61 096	67 694	77 377	89 167	66 146	46 303	50 491	57 100	61 089	55 220	39 337	69 083	107 607	103 898
Gas/Diesel Oil	JPY/kL	53 659	66 654	66 631	79 522	75 763	42 902	39 425	51 491	63 012	53 220	38 075	62 079	103 716	90 578
Fuel Oil	JPY/kL	45 900	62 351	64 234	71 187	65 425	42 970	37 456	42 952	54 007	51 236	41 225	71 422	104 823	107 019
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas	JPY/tonne	50 299	64 970	71 538	83 693	87 061	54 382	39 364	48 591	60 362	53 527	41 258	70 048	125 772	93 315
Compressed Natural Gas															
Electricity															

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency	JPY														
Exchange Rate	/ US Dollar	86.09	78.98	82.64	99.95	109.20	120.38	108.42	111.06	110.63	108.78	106.01	109.75	135.02	143.83
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	JPY/kg	134.7	138.0	146.80	160.1	155.1	126.7	114.0	129.2	137.4	130.6	126.7	162.8	189.2	177.6
Naphtha	JPY/kL	44 531	51 352	54 633	64 710	62 608	41 951	34 118	42 184	50 910	44 561	32 433	60 993	84 069	76 633
Motor Gasoline	JPY/kL	120 921	132 183	133 880	143 076	141 577	114 892	109 051	117 943	128 527	123 620	108 213	136 978	142 561	147 612
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	JPY/kL	68 294	78 059	80 500	89 250	85 869	59 310	54 513	64 080	76 410	72 491	56 916	85 653	91 181	96 241
Gas/Diesel Oil	JPY/kL	100 026	110 404	111 244	120 799	118 374	92 247	85 902	95 298	108 735	104 681	89 199	117 909	123 455	128 497
Fuel Oil	JPY/kL	49 101	61 192	61 950	69 451	64 149	41 106	37 935	46 329	57 931	57 164	40 783	69 520	79 016	85 297
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															

Energy prices in Japan
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	JPY / US Dollar	86.09	78.98	82.64	99.95	109.20	120.38	108.42	111.06	110.63	108.78	106.01	109.75	135.02	143.83
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	JPY/m³	713.2	728.6	750.6	762.8	798.6	774.9	755.0	762.4	773.4	780.9	786.9	813.7	879.3	896.3
Naphtha															
Motor Gasoline (regular)	JPY/L	136	147	149	157	158	131	125	137	150	147	135	162	170	175
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	JPY/L	86.7	98.3	100.7	107.9	108.1	84.8	74.4	88.4	100.6	100.2	89.3	110.9	121.3	125.5
Gas/Diesel Oil	JPY/L	116	128	129	137	137	112	105	115	129	128	115	142	150	154
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas (export)															
Compressed Natural Gas															
Electricity															
Industrial															
Commercial															
Residential	JPY/kWh	21.4	22.3	23.3	25.2	26.8	24.6	22.0	23.0	24.1	24.0	22.5	24.3	29.7	26.3
Others															
Other Energy Products															

Republic of Korea

Energy balance table of Korea

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	11		49									13	1 969	12	109	12	153	145	2.1	2 478	301	Production
Import	2 723	5.8	5 797	1 820	4.2	1.7		202	387	1 225	2 174									12 520		Import
Export			- 16	-2 729	- 533	- 520	-1 122	- 39	-2.5	- 512										-2 745		Export
International marine bunkers				- 451			- 81	- 370			-0.4									- 452		International marine bunkers
International aviation bunkers				- 226		- 226														- 226		International aviation bunkers
Stock changes	37	1.0	16	- 38	-4.0	-9.3	- 15	3.0	-4.3	-8.7	- 37									- 21		Stock changes
Total primary energy supply	2 771	6.8	5 847	-1 624	- 533	- 753	-1 218	- 205	380	705	2 137	13	1 969	12	109	12	153	145	2.1	11 555	301	Total primary energy supply
Transfers			492	- 437	97	21	66	- 221	14	- 414										55		Transfers
Total transformation sector	-2 713	247	-6 236	5 959	909	781	2 014	494	29	1 732	-1 159	- 13	-1 969		- 108	- 12	- 95	- 53	2 453	-3 701	- 230	Total transformation sector
Main activity producers	-1 746	- 70		- 19			-5.3	-2.2	-1.8	-9.3	-1 083	- 13	-1 969		- 100	- 12	- 79	- 15	2 163	-2 945	- 206	Main activity producers
Autoproducers	- 148	- 108		- 56						- 56	- 54				-7.4	-0.1	- 17	- 38	291	- 138	- 24	Autoproducers
Gas processing				- 15					- 14	-1.1	13									-2.8		Gas processing
Petroleum refineries			-7 061	6 816	909	781	2 019	496	113	2 498										- 245		Petroleum refineries
Coal transformation	- 809	426																		- 384		Coal transformation
Other transformation	-9.1		826	- 767					- 68	- 700	- 35								-0.8	14		Other transformation
Losses & own use		- 128		- 228			-0.1	-3.5	-5.4	- 219	- 77								- 305	- 737		Losses & own use
Discrepancy	153	-0.2	- 103	33	0.5	4.0	6.5	- 21	-1.7	45	-0.1								30	113		Discrepancy
Total final consumption	211	126		3 703	473	53	868	44	417	1 849	901			12	1.7		58	92	2 180	7 285	71	Total final consumption
Total final energy consumption	211	107		1 759	473	53	868	44	241	80	863			12	1.7		58	92	2 180	5 283	71	Total final energy consumption
Industry sector	211	100		91			5.7	26	48	11	302			0.2	0.1		13	79	1 130	1 925	13	Industry sector
Mining and quarrying				0.3			0.1	0.2	0.1										7.6	8.0		Mining and quarrying
Construction				2.3			0.9	0.1	0.3	1.0							0.3	0.7		3.3	0.3	Construction
Iron and steel	23	100		2.2					2.2		62							0.8	152	340		Iron and steel
Chemical & petrochemical	24			23				8.7	9.8	4.2	61						0.3	17	295	421	0.3	Chemical & petrochemical
Non-ferrous metals	16			1.7				1.2	0.5		18								26	62		Non-ferrous metals
Non-metallic minerals	77			15			0.1	9.5	1.1	3.8	19							29	44	184		Non-metallic minerals
Transportation equipment				9.8			4.3	3.3	2.0	0.2	26								100	136		Transportation equipment
Machinery				1.5			0.2	0.2	0.7	0.4	52								317	371		Machinery
Food, beverages and tobacco				1.5				0.5	0.8	0.2	33						1.1	5.1	54	94	1.1	Food, beverages and tobacco
Pulp, paper and printing				0.7				0.4	0.2		11						6.9	18	48	85	6.9	Pulp, paper and printing
Wood and wood products				0.1				0.1			1.1						1.8	0.3	6.8	10	1.8	Wood and wood products
Textiles and leather	15			0.5				0.2	0.2	0.1	5.8						0.6	2.5	52	76	0.6	Textiles and leather
Non-specified industry	56			33			0.1	1.1	30	1.6	14			0.2	0.1		2.2	4.9	27	137	2.5	Non-specified industry
Transport sector				1 444	473	36	811	8.7	115	0.1	37						29		14	1 524	29	Transport sector
Domestic air transport				36		36														36		Domestic air transport
Road				1 388	472		800		115		37								2.5	1 457	29	Road
Rail				2.2			2.2										0.1		11	13	0.1	Rail
Inland waterways				4.8			3.6	1.1												4.8		Inland waterways
Non-specified transport				13		0.3	4.9	7.6		0.1										13		Non-specified transport
Other sector		6.8		224		17	52	9.2	77	69	524			11	1.7		15	13	1 037	1 834	28	Other sector
Residential		6.2		77				6.3	22	49	391			2.0	0.8		4.8		363	845	7.6	Residential
Commerce and public services		0.6		72		0.4	1.5	1.8	54	14	133			7.7	0.8		9.7	13	609	846	18	Commerce and public services
Agriculture				21			15	0.8	0.2	5.6	0.1			1.7			0.9		54	78	2.5	Agriculture
Fishery				23			22	0.3											11	34		Fishery
Non-specified				31		17	13		0.6	0.5										31		Non-specified
Non-energy		19		1 944					176	1 769	38									2 002		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	186 114	19 266		7 345			591	2 021	164	1 177	160 815	3 716	180 494		29 903	3 397	9 934	5 393		606 901	47 388	Electricity generated (GWh)
Electricity plants	178 134	19 266		3 422			591	966	58	96	114 934	3 716	180 494		29 903	3 397	9 436	4 751		547 977	46 890	Electricity plants
CHP plants	7 981			3 923				1 055	106	1 080	45 881						498	642		58 924	498	CHP plants
Heat generated (PJ)	83			36				13	1	9	114						10	26		272	10	Heat generated (PJ)
Heat plants				2				1			12						4	17		35	4	Heat plants
CHP plants	83			34				12	1	9	102						5	10		237	5	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Korea

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	15		52									13	1 921	12	106	12	145	143	1.7	2 420	289	Production
Import	2 847	7.8	5 866	1 768	0.5		1.7	133	420	1 214	2 287									12 776		Import
Export			- 11	-2 754	- 524	- 481	-1 162	- 82	-2.8	- 502										-2 765		Export
International marine bunkers				- 485			- 89	- 396			-0.4									- 485		International marine bunkers
International aviation bunkers				- 139		- 139														- 139		International aviation bunkers
Stock changes	- 11	-2.1	- 48	21	-2.1	-0.3	8.4	4.5	-1.5	12	- 60						1.7			- 98	1.7	Stock changes
Total primary energy supply	2 851	5.7	5 859	-1 589	- 526	- 620	-1 241	- 340	415	724	2 227	13	1 921	12	106	12	146	143	1.7	11 708	290	Total primary energy supply
Transfers			380	- 335	104	18	52	- 176	16	- 349										45		Transfers
Total transformation sector	-2 779	240	-6 242	5 954	884	689	2 059	554	8.9	1 759	-1 205	- 13	-1 921		- 104	- 12	- 88	- 50	2 498	-3 723	- 218	Total transformation sector
Main activity producers	-1 832	- 70		- 58			-7.5	- 34	-8.7	-8.1	-1 144	- 13	-1 921		- 97	- 12	- 71	- 13	2 201	-3 032	- 195	Main activity producers
Autoproducers	- 140	- 108		- 55						- 55	- 54				-7.0		- 16	- 37	298	- 119	- 23	Autoproducers
Gas processing				- 18					- 17	-0.9	15									-3.1		Gas processing
Petroleum refineries			-7 030	6 819	884	689	2 066	588	105	2 487										- 211		Petroleum refineries
Coal transformation	- 789	418																		- 371		Coal transformation
Other transformation	- 19		788	- 733					- 70	- 663	- 23								-0.9	12		Other transformation
Losses & own use		- 123		- 226			-0.1	-4.2	-5.0	- 217	- 74								- 295	- 718		Losses & own use
Discrepancy	171	1.3	3.3	99	0.4	0.5	- 20	10	20	89	10						-2.3		-6.5	276	-2.3	Discrepancy
Total final consumption	243	124		3 904	462	88	849	44	455	2 006	957			12	1.7		57	93	2 198	7 588	70	Total final consumption
Total final energy consumption	243	105		1 777	462	88	849	44	246	88	929			12	1.7		57	93	2 198	5 414	70	Total final energy consumption
Industry sector	243	97		86			5.7	25	48	7.1	324			0.2	0.1		13	80	1 149	1 992	13	Industry sector
Mining and quarrying				0.5			0.2	0.3	0.1										7.9	8.4		Mining and quarrying
Construction				3.1			1.6	0.1	0.3	1.1							0.3	0.7		4.1	0.3	Construction
Iron and steel	33	97		2.1					2.1		58							0.8	162	353		Iron and steel
Chemical & petrochemical	25			19		0.1	8.2	10	10		79						0.2	18	295	436	0.2	Chemical & petrochemical
Non-ferrous metals	16			1.7				0.9	0.7		19								28	64		Non-ferrous metals
Non-metallic minerals	81			13			0.1	8.9	1.1	2.8	20							30	45	189		Non-metallic minerals
Transportation equipment				7.5			3.4	2.8	1.2		26								98	131		Transportation equipment
Machinery				1.6		0.2	0.1	0.8	0.4	54									320	375		Machinery
Food, beverages and tobacco				1.5			0.4	0.8	0.3	34							1.1	5.1	53	95	1.1	Food, beverages and tobacco
Pulp, paper and printing				0.7			0.4	0.2		12							6.7	18	50	86	6.7	Pulp, paper and printing
Wood and wood products				0.1			0.1			1.2							1.7	0.3	7.2	10	1.7	Wood and wood products
Textiles and leather	16			0.8			0.5	0.2	0.1	7.6							0.6	2.5	56	83	0.6	Textiles and leather
Non-specified industry	72			35		0.1	2.4	31	2.1	15				0.2	0.1		2.0	4.8	27	157	2.3	Non-specified industry
Transport sector				1 450	462	68	791	8.3	121		39						29		13	1 531	29	Transport sector
Domestic air transport				67		67														67		Domestic air transport
Road				1 368	462		785		121		39						29		2.3	1 438	29	Road
Rail				2.5			2.5												11	13		Rail
Inland waterways				4.9			3.5	1.4												4.9		Inland waterways
Non-specified transport				7.7		0.7		7.0												7.7		Non-specified transport
Other sector		7.4		241		20	53	10	77	81	566			11	1.7		15	13	1 036	1 891	28	Other sector
Residential		6.7		84			7.7	21	21	56	432			1.9	0.8		4.8		360	890	7.5	Residential
Commerce and public services		0.6		75		0.3	1.5	1.0	55	17	134			7.9	0.9		9.6	13	610	851	18	Commerce and public services
Agriculture				17			8.9	1.3	0.2	6.9	0.1			1.4			0.4		55	74	1.9	Agriculture
Fishery				23			22	0.4											11	34		Fishery
Non-specified				42		20	21		0.6	0.6										42		Non-specified
Non-energy		19		2 126					209	1 918	28									2 174		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	198 266	18 732		8 423			828	2 043	657	1 006	169 420	3 541	176 054		28 918	3 372	9 145	4 784		621 165	45 400	Electricity generated (GWh)
Electricity plants	187 057	18 732		4 024			827	882	385	116	122 172	3 541	176 054		28 918	3 372	8 663	4 142		557 184	44 918	Electricity plants
CHP plants	11 210			4 399				1 161	272	891	47 248						482	642		63 981	482	CHP plants
Heat generated (PJ)	79			40				13	3	8	110						10	25		265	10	Heat generated (PJ)
Heat plants				4				1	2		11						4	15		35	4	Heat plants
CHP plants	79			36				12	2	8	99						5	10		231	5	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Korea

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																											Total
Primary energy supply	3 748	6 106	7 779	7 781	8 166	8 297	8 566	8 724	8 797	9 148	9 269	9 409	10 208	10 694	10 767	10 785	10 914	11 190	11 560	11 758	11 947	11 562	11 277	11 951	11 708	11 555	Primary energy supply
Production	922	879	1 360	1 387	1 455	1 585	1 607	1 796	1 829	1 778	1 869	1 852	1 878	1 965	1 933	1 822	2 051	2 147	2 147	2 050	1 890	2 020	2 205	2 194	2 420	2 478	Production
Import	3 031	6 198	8 626	8 520	8 404	8 445	8 863	8 776	9 275	9 456	9 816	9 973	10 909	11 627	11 781	11 881	11 953	12 333	12 741	13 200	13 659	13 095	12 116	12 611	12 776	12 520	Import
Export	-159	-659	-1 714	-1 683	-1 341	-1 199	-1 349	-1 496	-1 638	-1 647	-1 882	-1 856	-1 917	-2 298	-2 463	-2 381	-2 471	-2 628	-2 691	-2 798	-2 970	-2 903	-2 585	-2 464	-2 765	-2 745	Export
Final energy consumption	2 451	3 732	4 253	4 308	4 495	4 575	4 616	4 687	4 649	4 797	4 777	4 756	5 128	5 204	5 188	5 198	5 088	5 279	5 367	5 508	5 542	5 457	5 309	5 498	5 414	5 283	Final energy consumption
Industry	851	1 263	1 583	1 574	1 635	1 671	1 717	1 722	1 742	1 837	1 857	1 791	2 017	2 113	2 054	2 042	1 993	2 052	2 021	2 098	2 126	2 039	1 988	2 105	1 992	1 925	Industry
Transport	610	1 016	1 100	1 147	1 222	1 249	1 259	1 221	1 222	1 264	1 207	1 225	1 253	1 233	1 266	1 312	1 333	1 417	1 459	1 489	1 467	1 531	1 429	1 490	1 531	1 524	Transport
Residential	478	422	639	671	700	706	710	751	764	754	772	770	823	835	835	834	780	786	851	888	906	875	892	910	890	845	Residential
Commerce & public services	390	778	715	697	727	751	745	808	750	770	784	806	858	848	851	823	814	852	878	865	875	849	836	836	851	846	Commerce & public services
Others	122	253	216	219	210	198	185	185	171	172	156	165	178	176	181	187	169	173	158	169	167	164	163	158	150	143	Others
Coal and peat																											Coal and peat
Primary energy supply	920	1 169	1 618	1 721	1 801	1 843	1 939	1 992	2 047	2 181	2 433	2 523	2 848	3 094	2 968	3 025	3 107	3 140	3 154	3 376	3 419	3 196	2 859	2 898	2 851	2 771	Primary energy supply
Production	292	97	70	65	56	56	54	48	48	51	49	44	37	37	36	31	30	30	29	26	21	19	18	16	15	11	Production
Import	592	1 085	1 573	1 644	1 727	1 764	1 942	1 885	1 953	2 108	2 381	2 450	2 821	3 082	2 937	2 963	3 069	3 158	3 140	3 352	3 361	3 216	2 813	2 860	2 847	2 723	Import
Export																											Export
Transformation sector	-858	-960	-1 527	-1 621	-1 734	-1 779	-1 921	-1 971	-2 040	-2 138	-2 403	-2 554	-2 854	-3 090	-3 034	-3 023	-3 118	-3 084	-3 048	-3 300	-3 370	-3 203	-2 820	-2 894	-2 779	-2 713	Transformation sector
Power generation	-213	-464	-1 019	-1 113	-1 212	-1 245	-1 381	-1 417	-1 478	-1 539	-1 747	-1 974	-2 119	-2 229	-2 186	-2 181	-2 166	-2 206	-2 175	-2 400	-2 488	-2 315	-1 969	-2 019	-1 972	-1 895	Power generation
Final energy consumption	112	195	234	257	281	307	281	277	288	298	307	291	310	367	294	304	295	346	291	265	298	251	233	254	243	211	Final energy consumption
Industry	112	195	234	257	281	307	281	277	288	298	307	291	310	367	294	304	295	346	291	265	298	251	233	254	243	211	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply	3.5	5.4	7.5	6.7	7.9	10	17	8.5	7.8	15	20	7.8	14	12	11	11	12	11	11	5.7	10	6.7	7.5	8.7	5.7	6.8	Primary energy supply
Production																											Production
Import	3.5	5.4	7.5	6.7	7.9	10	17	8.5	7.8	15	20	7.4	17	12	11	11	12	11	10	9.5	10	8.7	7.6	8.8	7.8	5.8	Import
Export																											Export
Transformation sector	417	181	155	152	163	166	164	175	182	203	226	214	278	293	308	259	285	249	265	266	275	264	257	268	240	247	Transformation sector
Power generation	-55	-79	-93	-93	-100	-105	-108	-100	-99	-109	-117	-88	-119	-188	-174	-170	-185	-179	-182	-190	-194	-194	-195	-196	-178	-178	Power generation
Final energy consumption	385	139	111	108	111	117	126	127	111	140	160	146	207	168	179	133	134	132	120	125	128	118	111	115	105	107	Final energy consumption
Industry	54	87	91	87	90	96	102	92	71	104	120	112	174	135	146	99	105	106	98	106	112	107	102	108	97	100	Industry
Transport																											Transport
Residential	301	51	17	11	11	11	12	18	22	20	23	20	19	19	18	19	16	14	14	12	10	10	8.0	7.1	6.7	6.2	Residential
Commerce & public services	21	0.2	0.8	1.4	1.3	1.3	5.4	7.3	7.9	6.6	7.0	5.6	5.1	6.0	6.8	7.9	6.7	6.1	6.3	5.3	4.4	1.0	0.8	0.7	0.6	0.6	Commerce & public services
Others	8.7	0.9	2.5	8.7	8.5	8.4	6.1	9.0	11	10	11	8.8	8.2	8.1	7.8	7.8	6.7	6.1	2.7	2.2	1.9						Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	1 810	3 764	5 296	5																							

Major economic indicators of Korea

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹⁾	42.87	43.30	43.75	44.19	44.64	45.09	47.01	47.37	47.64	47.89	48.08	48.18	48.44	48.68	49.05	49.31	49.55	49.94	50.20	50.43	50.75	51.01	51.22	51.36	51.59	51.76	51.84	51.74	51.67	51.71	Population (million) ¹⁾
Gross domestic product ³⁾																															Gross domestic product ³⁾
Real term, billion USD (constant 2015)	401	445	472	505	552	605	799	838	902	931	979	1 021	1 075	1 137	1 172	1 181	1 261	1 308	1 339	1 381	1 426	1 466	1 509	1 557	1 602	1 638	1 626	1 694	1 741	1 764	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	543	601	638	682	745	817	1 079	1 132	1 219	1 258	1 323	1 380	1 453	1 537	1 583	1 596	1 704	1 767	1 810	1 867	1 927	1 981	2 039	2 104	2 165	2 213	2 198	2 289	2 580	2 607	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	283	331	356	393	464	567	576	548	627	703	793	935	1 053	1 173	1 047	944	1 144	1 253	1 278	1 371	1 484	1 466	1 500	1 624	1 725	1 651	1 644	1 811	1 674	1 713	Nominal, billion USD (current)
GDP per capita ³⁾																															GDP per capita ³⁾
Real term (constant 2015 USD)	9 365	10 273	10 797	11 423	12 356	13 409	16 992	17 681	18 937	19 432	20 361	21 193	22 192	23 361	23 883	23 948	25 451	26 187	26 675	27 395	28 095	28 732	29 462	30 307	31 054	31 640	31 372	32 731	33 690	34 121	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	12 656	13 882	14 591	15 436	16 698	18 120	22 964	23 894	25 591	26 260	27 516	28 641	29 991	31 570	32 275	32 364	34 394	35 389	36 049	37 021	37 967	38 829	39 815	40 957	41 966	42 759	42 397	44 232	49 934	50 414	GDP, PPP (constant 2021 USD)
Nominal (current USD)	6 610	7 637	8 127	8 885	10 385	12 565	12 257	11 561	13 165	14 673	16 496	19 403	21 743	24 086	21 350	19 144	23 087	25 096	25 467	27 183	29 250	28 732	29 289	31 617	33 437	31 902	31 721	34 998	32 395	33 121	Nominal (current USD)
Nominal GDP & its components (billion of current KRW) ¹⁾																															Nominal GDP & its components (billion of current KRW) ¹⁾
Gross domestic product	201	242	278	315	372	437	652	707	785	837	908	957	1 006	1 090	1 154	1 205	1 323	1 389	1 440	1 501	1 563	1 658	1 741	1 836	1 898	1 924	1 941	2 072	2 162	2 236	Gross domestic product
Household final consumption expenditure	101	122	141	161	193	227	355	392	440	453	469	501	533	572	606	623	667	711	738	758	780	805	835	873	912	936	900	956	1 039	1 094	Household final consumption expenditure
General government final consumption expenditure	22	26	31	34	38	44	71	83	92	102	113	123	134	146	162	177	188	200	211	225	238	250	265	283	305	329	350	376	406	423	General government final consumption expenditure
Gross fixed capital formation	75	94	103	115	136	162	207	217	238	262	282	292	307	329	358	372	400	419	426	437	453	481	517	578	577	579	607	654	695	719	Gross fixed capital formation
Stock change	4	6	5	4	8	8	7	6	6	9	14	19	25	32	31	- 18	31	44	25	12	13	9	7	14	21	27	11	11	22	- 1	Stock change
Exports of goods and services	50	58	67	75	90	112	221	225	234	263	334	338	358	407	550	545	623	741	779	770	748	713	699	751	792	756	706	871	1 044	984	Exports of goods and services
Imports of goods and services	52	63	69	73	92	117	210	215	224	249	302	316	352	398	553	494	586	725	740	700	669	599	583	664	708	702	634	797	1 043	983	Imports of goods and services
Real GDP & its components (billion of 2019 KRW) ¹⁾																															Real GDP & its components (billion of 2019 KRW) ¹⁾
Gross Domestic Product	454	503	534	571	624	684	904	947	1 021	1 053	1 107	1 155	1 216	1 286	1 325	1 336	1 427	1 479	1 515	1 563	1 613	1 658	1 707	1 761	1 812	1 853	1 840	1 916	1 969	1 996	Gross Domestic Product
Household final consumption expenditure	280	305	327	349	381	422	512	541	590	588	590	617	648	682	693	695	725	746	759	772	787	805	826	849	876	894	851	882	918	934	Household final consumption expenditure
General government final consumption expenditure	77	81	86	90	93	96	116	123	131	138	144	152	164	174	183	195	206	211	220	231	241	250	261	271	286	304	320	338	351	355	General government final consumption expenditure
Gross fixed capital formation	176	201	206	222	253	286	306	313	336	354	364	369	384	403	401	402	426	431	431	443	457	481	513	563	550	539	558	573	573	579	Gross fixed capital formation
Stock change	7	18	7	3	9	5	10	8	9	7	14	18	26	27	30	- 8	17	33	28	5	6	9	8	14	19	21	11	8	13	14	Stock change
Exports of goods and services	55	62	70	77	90	111	219	215	243	276	333	360	403	454	488	486	549	634	671	697	711	713	730	748	778	779	766	849	880	907	Exports of goods and services
Imports of goods and services	85	102	107	114	141	172	232	224	257	284	318	343	386	430	444	413	485	556	570	580	587	599	630	686	698	685	663	730	756	779	Imports of goods and services
Sectoral shares of Real GDP (%) ¹⁾																															Sectoral shares of Real GDP (%) ¹⁾
Agriculture, Fishery and Forestry	4.9	4.6	4.7	4.2	3.8	3.7	3.0	2.9	2.6	2.3	2.4	2.3	2.3	2.2	2.3	2.4	2.2	2.1	2.0	2.0	2.1	2.0	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.6	Agriculture, Fishery and Forestry
Industry	31.2	31.9	31.2	31.5	31.7	32.0	32.7	32.2	32.4	33.1	34.1	34.2	34.5	34.8	34.6	33.9	35.0	34.9	34.5	34.4	34.3	34.1	34.2	34.6	34.2	33.7	33.7	34.0	33.6	33.5	Industry
Services, etc.	53.4	53.3	54.2	54.9	54.9	54.7	54.9	55.6	55.9	55.6	54.5	54.6	54.4	54.4	54.8	55.5	54.6	54.7	55.2	55.5	55.4	55.6	55.6	55.3	55.8	56.4	56.3	56.1	56.9	57.3	Services, etc.
Industrial production index (2010=100) ²⁾	40.0	43.8	46.4	48.3	53.7	60.3	93.6	93.6	94.9	95.0	99.9	99.5	109.6	114.4	115.5	94.7	100.0	102.0	99.7	96.6	94.9	93.9	95.7	98.7	100.2	100.1	100.1	0.0	126.5	0.0	Industrial production index (2010=100) ²⁾
External trade (billions of current USD) ¹⁾																															External trade (billions of current USD) ¹⁾
Exports, f.o.b.	65.0	71.9	76.6	82.2	96.0	125.1	172.3	150.4	162.5	193.8	253.8	284.4	325.5	371.5	422.0	363.5	466.4	555.2	547.9	559.6	573.1	526.8	495.4	573.7	604.9	542.2	512.5	644.4	683.6	632.2	Exports, f.o.b.
Imports, c.i.f.	69.8	81.5	81.8	83.8	102.3	135.1	160.5	141.1	152.1	178.8	224.5	261.2	309.4	356.8	435.3	323.1	425.2	524.4	519.6	515.6	525.6	436.5	406.2	478.5	535.2	503.3	467.6	615.1	731.4	642.6	Imports, c.i.f.
Balance of payments (billion of current USD) ²⁾																															Balance of payments (billion of current USD) ²⁾
Trade balance	-3.7	-7.2	-1.4	2.7	-3.9	-7.0	15.4	9.4	14.4	22.1	39.2	32.5	24.5	32.4	11.7	48.1	47.9	28.0	48.6	80.3	86.1	120.3	116.5	113.6	110.1	79.8	80.6	0.0	15.6	0.0	Trade balance
Current account	-2.8	-8.0	-2.9	1.7	-4.8	-10.2	10.2	2.2	4.1	11.3	29.3	12.2	2.1	10.5	1.8	33.1	28.0	16.6	48.8	77.3	83.0	105.1	97.9	75.2	77.5	59.7	75.9	85.2	25.8	0.0	Current account
Overall balance	-0.5	-2.0	2.4	4.2	6.2	8.3	24.5	1.4	10.3	20.4	34.0	13.5	12.2	8.5	-48.2	74.5	33.3	7.6	13.5	15.0	14.4	14.2	5.6	-5.0	18.8	1.9	11.5	0.0	-29.1	0.0	Overall balance
Foreign exchange rate (KRW/USD) ¹⁾	707.77	733.33	780.67	802.54	803.77	771.25	1 130.36	1 290.79	1 251.60	1 191.65	1 146.25	1 024.33	955.34	929.38	1 100.13	1 277.25	1 156.46	1 108.23	1 126.81	1 094.98	1 052.84	1 130.95	1 160.77	1 131.00	1 100.16	1 165.36	1 180.27	1 143.95	1 291.45	1 305.66	Foreign exchange rate (KRW/USD) ¹⁾
PPP conversion factor, GDP (KRW/USD) ¹⁾	559.92	591.11	622.89	646.53	684.66	717.70	747.74	756.70	769.77	791.29	794.71	788.92	772.22	770.09	785.72	828.42	840.99	854.59	854.89	869.08	871.88	857.48	858.81	872.62	854.87	856.43	837.67	854.10	810.43	828.39	PPP conversion factor, GDP (KRW/USD) ¹⁾
Price Indices																															Price Indices
GDP Deflator (2015=100) ³⁾	44.2	48.2	51.9	55.2	59.7	63.9	72.1	74.6	76.9	79.5	82.0	82.9	82.7	84.7	87.1	90.2	92.7	93.9	95.1	96.0	96.9	100.0	102.0	104.3	104.8	103.9	105.5	108.1	109.8	112.1	GDP Deflator (2015=100) ³⁾
Producer Price Index (2010=100) ²⁾	56.4	59.0	60.3	61.2	62.9	65.8	79.1	78.7	78.5	80.2	85.1	86.9	87.7	88.9	96.5	96.3	100.0	106.7	107.5	105.7	105.2	100.9	99.1	102.5	104.5	104.5	104.0	0.0	120.9	0.0	Producer Price Index (2010=100) ²⁾
Consumer Price Index (2010=100) ²⁾	44.6	48.7	51.7	54.2	57.6	60.2	73.1	76.1	78.2	80.9	83.8	86.2	88.1	90.3	94.5	97.1	100.0	104.0	106.3	107.7	109.1	109.8	110.9	113.1	114.7	115.2	115.8	0.0	124.7	0.0	Consumer Price Index (2010=100) ²⁾
Growth rate (%) ³⁾																															Growth rate (%) ³⁾
Real GDP	9.9	10.8	6.2	6.9	9.3	9.6	9.1	4.9	7.7	3.1	5.2	4.3	5.3																		

Energy prices in Korea
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	KRW / US Dollar	1 156	1 108	1 127	1 095	1 053	1 132	1 160	1 130	1 101	1 166	1 180	1 145	1 292	1 305
Coal and Coal Products															
Coking Coal	USD/tonne	178.02	250.20	202.89	150.33	125.43	100.71	104.97	184.31	182.94	171.52	120.05	175.53	355.05	267.49
Anthracite	USD/tonne	137.13	201.17	168.91	134.74	111.04	90.91	80.54	133.23	146.24	135.20	97.19	137.33	308.51	216.68
Other bituminous coal	USD/tonne	92.40	112.12	106.47	88.66	81.99	65.20	59.48	83.61	95.0	83.44	66.45	101.57	191.91	142.74
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil	USD/BBL	78.73	108.0	112.79	108.27	101.24	53.29	41.08	53.36	71.48	65.47	45.32	70.50	102.18	85.95
Natural Gas Liquids															
Ethane															
LPG	USD/BBL	61.86	76.59	79.62	77.28	76.43	41.93	30.85	41.07	48.0	37.43	32.58	54.10	66.16	59.32
Naphtha	USD/BBL	80.42	104.23	105.72	102.95	101.78	55.78	44.09	54.16	70.59	58.46	45.31	71.12	88.70	73.45
Motor Gasoline															
Aviation Gasoline	USD/BBL	136.67	136.75	142.17	189.88	184.33	155.75	138.71	158.67	151.33	179.67	144.20	196.00	274.50	214.00
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	USD/BBL	102.44	129.65	128.40	126.45	125.56	121.18	47.11	62.08	44.0	83.63	37.88	78.38	90.18	114.59
Gas/Diesel Oil	USD/BBL	93.49	130.46	128.19	127.25	122.54	75.38	55.49	68.67	86.59	79.76	39.16	107.42	113.42	-
Fuel Oil	USD/BBL	74.11	102.69	109.21	101.33	95.51	47.98	37.97	54.62	70.70	66.21	50.95	69.60	92.17	82.85
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas	USD/tonne	521.60	650.39	756.26	768.52	846.26	562.83	363.79	416.01	526.84	504.72	393.08	554.14	1078.20	817.12
Compressed Natural Gas															
Electricity															

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	KRW / US Dollar	1 156	1 108	1 127	1 095	1 053	1 132	1 160	1 130	1 101	1 166	1 180	1 145	1 292	1 305
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	KRW/kg	1,056.32	1230.05	1261.72	1 217	1 155	727	584	734	813	720.71	666.91	903.67	1,250.96	1,062.47
Naphtha															
Motor Gasoline	KRW/L	1,732.70	1 940	1 999	1 936	1 847	1 554	1 460	1 541	1 621	1,562.86	1,464.60	1,705.08	1,875.96	1,744.12
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	KRW/L	908.06	1 144	1 186	1 127	964	631	542	650	765	752.20	532.21	739.35	1,203.97	1,089.07
Gas/Diesel Oil	KRW/L	1,393.05	1 631	1 682	1 609	1 485	1 164	1 069	1 161	1 277	1,227.85	1,057.18	1,286.21	1,712.23	1,415.68
Fuel Oil	KRW/L	710.49	918	1 054	919	853	542	443	565	659	678.23	518.28	688.66	1,006.51	886.29
White Spirit SBP	KRW/L	689.44	827	862	829	782	484	408	484	589	517.40	436.01	657.13	891.76	796.41
Lubricants															
Bitumen	KRW/kg	592.50	723	796	717	611	380	293	404	533	547.31	427.08	610.41	829.27	809.62
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	KRW/MJ	656.31	768.06	18.56	19.53	20.52	16.00	12.99	12.47	13.23	13.86	11.86	16.09	25.01	19.30
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	KRW / US Dollar	1 156	1 108	1 127	1 095	1 053	1 132	1 160	1 130	1 101	1 166	1 180	1 145	1 292	1 305
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG															
Naphtha															
Motor Gasoline (regular)	KRW/L	1,710.41	1 929	1 986	1 924	1 827	1 510	1 403	1 491	1 581	1,472.44	1,381.39	1,590.56	1,812.79	1,642.98
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	KRW/L	1,076.00	1 321	1 394	1 367	1 297	947	784	853	942	961.66	853.80	946.82	1,473.94	1,403.03
Gas/Diesel Oil	KRW/L	1,502.80	1 746	1 806	1 730	1 637	1 300	1 183	1 283	1 392	1,340.52	1,189.65	1,391.40	1,842.89	1,558.26
Fuel Oil	KRW/L	772.27	987	1 089	935	886	604	524	620	724	733.62	570.06	731.58	1,082.16	924.39
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	KRW/MJ*	704.94	815.78	19.66	20.63	21.75	17.24	14.25	13.82	14.58	15.21	13.30	17.51	26.43	20.10
Liquefied Natural Gas (export)															
Compressed Natural Gas															
Electricity															
Industrial	KRW/kWh	76.63	81.23	92.83	100.70	106.83	107.41	107.11	107.41	106.46	106.56	107.35	105.48	118.66	153.71
Commercial	KRW/kWh	98.93	101.69	112.50	121.98	129.75	130.46	130.41	130.42	129.97	130.33	131.60	128.47	139.10	169.46
Residential	KRW/kWh	119.85	119.99	123.69	127.02	125.14	123.69	121.52	108.50	106.87	104.95	107.89	109.16	121.32	149.75
Others															
Other Energy Products															

* KRW/m³ in 2011

Malaysia

Energy balance table of Malaysia

2023

	Petajoules																						
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables		
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products													
Production	107		1 036								2 808	115			16		67			4 148	197	Production	
Import	963		411	1 240	503	75	401	80	45	135	363							0.1	2 977		Import		
Export			- 435	- 567	- 65	- 61	- 132	- 97	- 28	- 183	-1 290						-9.7		-0.8	-2 302	-9.7	Export	
International marine bunkers				- 28			-2.1	- 26												- 28		International marine bunkers	
International aviation bunkers																						International aviation bunkers	
Stock changes	-5.9		6.4	4.1	4.6	2.5	0.8	1.3	-0.1	-5.1							13			17	13	Stock changes	
Total primary energy supply	1 065		1 018	649	443	16	267	- 41	17	- 53	1 881	115			16		70		-0.7	4 813	200	Total primary energy supply	
Transfers																							Transfers
Total transformation sector	- 980		-1 110	1 043	316	75	338	61	136	116	-1 104	- 115			- 16		- 15		674	-1 622	- 145	Total transformation sector	
Main activity producers	- 980			- 12			-8.3	-3.8			- 457	- 115			- 16		-7.4		645	- 941	- 138	Main activity producers	
Autoproducers				-2.9			-2.9				- 65				-0.2		-7.2		29	- 47	-7.4	Autoproducers	
Gas processing				56			3.1		47	5.4	- 582									- 526		Gas processing	
Petroleum refineries			-1 110	1 002	316	75	346	65	89	110										- 108		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation																						Other transformation	
Losses & own use			-0.4	- 20						- 20	- 58								- 48	- 126		Losses & own use	
Discrepancy	-6.5		92	- 280	- 141	19	- 101	5.1	- 48	- 15	- 35						1.0		30	- 198	1.0	Discrepancy	
Total final consumption	79			1 392	618	111	505	25	105	28	685						56		656	2 867	56	Total final consumption	
Total final energy consumption	79			1 320	618	111	505	25	60	1.4	349						56		656	2 459	56	Total final energy consumption	
Industry sector	79			80	5.0		41	24	9.2	0.7	346						1.9		304	811	1.9	Industry sector	
Mining and quarrying																						Mining and quarrying	
Construction																						Construction	
Iron and steel																						Iron and steel	
Chemical & petrochemical																						Chemical & petrochemical	
Non-ferrous metals																						Non-ferrous metals	
Non-metallic minerals																						Non-metallic minerals	
Transportation equipment																						Transportation equipment	
Machinery																						Machinery	
Food, beverages and tobacco																						Food, beverages and tobacco	
Pulp, paper and printing																						Pulp, paper and printing	
Wood and wood products																						Wood and wood products	
Textiles and leather																						Textiles and leather	
Non-specified industry	79			80	5.0		41	24	9.2	0.7	346						1.9		304	811	1.9	Non-specified industry	
Transport sector				1 122	611	111	400				1.3						54		2.1	1 180	54	Transport sector	
Domestic air transport				111		111														111		Domestic air transport	
Road				1 011	611		400				1.3						54			1 067	54	Road	
Rail																			2.1	2.1		Rail	
Inland waterways																						Inland waterways	
Non-specified transport																						Non-specified transport	
Other sector				117	1.7		63	1.1	51	0.7	1.1								350	468		Other sector	
Residential				40					39	0.7	0.3								151	192		Residential	
Commerce and public services				33			21	1.1	12		0.9								195	229		Commerce and public services	
Agriculture				13			13												3.2	16		Agriculture	
Fishery				31	1.7		30													31		Fishery	
Non-specified																						Non-specified	
Non-energy				72					45	27	336									408		Non-energy	
Electricity and heat output																							
Electricity generated (GWh)	81 210			1 231							66 986	31 896			4 403		1 536			187 262	37 835	Electricity generated (GWh)	
Electricity plants	81 210			1 231							66 986	31 896			4 403		1 536			187 262	37 835	Electricity plants	
CHP plants																						CHP plants	
Heat generated (PJ)																						Heat generated (PJ)	
Heat plants																						Heat plants	
CHP plants																						CHP plants	

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Malaysia

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	90		1 044								2 785	115			12		63			4 111	191	Production
Import	894		498	671	378	60	149	24	36	25	437									2 499		Import
Export			- 415	- 497	- 92	- 42	- 167	- 70	- 26	- 101	-1 303						-7.4		-2.9	-2 226	-7.4	Export
International marine bunkers				- 35			-1.8	- 34												- 35		International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	6.2		12	5.7	3.4	-2.8	4.2	4.2		-3.3							9.1			33	9.1	Stock changes
Total primary energy supply	990		1 139	144	289	15	- 16	- 75	9.9	- 80	1 919	115			12		65		-2.9	4 382	192	Total primary energy supply
Transfers																						Transfers
Total transformation sector	- 925		-1 133	1 069	291	61	410	87	98	121	-1 279	- 115			- 12		- 15		691	-1 719	- 142	Total transformation sector
Main activity producers	- 925			- 17			- 13	-4.0			- 511	- 115			- 12		-7.0		659	- 928	- 134	Main activity producers
Autoproducers				- 23			- 23				- 50	-0.2			-0.1		-8.1		32	- 50	-8.3	Autoproducers
Gas processing				72			5.4		54	13	- 717									- 645		Gas processing
Petroleum refineries			-1 133	1 036	291	61	441	91	44	108										- 97		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																						Other transformation
Losses & own use			-2.1	- 18						- 18	- 68								- 55	- 143		Losses & own use
Discrepancy	0.1		-4.1	25	6.6	-0.3	2.4	9.0	2.8	4.8									- 28	-6.4		Discrepancy
Total final consumption	65			1 220	587	76	397	21	110	28	572						50		606	2 513	50	Total final consumption
Total final energy consumption	65			1 142	587	76	397	21	58	1.6	350						50		606	2 212	50	Total final energy consumption
Industry sector	65			81	6.7		46	20	7.3	1.2	347								304	797		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	65			81	6.7		46	20	7.3	1.2	347								304	797		Non-specified industry
Transport sector				956	579	76	301				1.5						50		1.6	1 009	50	Transport sector
Domestic air transport				76		76														76		Domestic air transport
Road				879	579		301				1.5						50		1.6	931	50	Road
Rail																						Rail
Inland waterways																						Inland waterways
Non-specified transport																						Non-specified transport
Other sector				105	2.1		50	1.3	51	0.4	1.7								300	407		Other sector
Residential				39					39	0.4	0.3								132	171		Residential
Commerce and public services				17			3.6	1.3	12		1.4								166	185		Commerce and public services
Agriculture				15			15												2.4	17		Agriculture
Fishery				34	2.1		32													34		Fishery
Non-specified																						Non-specified
Non-energy				78					52	26	223									301		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	82 222			3 027							70 012	31 934			3 412		1 464			192 071	36 810	Electricity generated (GWh)
Electricity plants	82 222			3 027							70 012	31 934			3 412		1 464			192 071	36 810	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Malaysia

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total	857	1 398	2 030	2 144	2 219	2 447	2 645	2 772	2 812	2 979	3 161	3 066	3 164	3 252	3 562	3 744	3 797	3 776	3 914	3 950	4 026	4 140	3 946	3 944	4 382	4 813	Total
Primary energy supply	1 948	2 612	3 202	3 235	3 371	3 504	3 811	3 953	3 806	3 826	3 942	3 778	3 809	3 677	3 764	3 857	3 927	4 115	4 185	4 304	4 119	4 176	3 822	3 935	4 111	4 148	Primary energy supply
Production	406	466	681	783	753	917	1 075	1 009	1 152	1 333	1 289	1 142	1 552	1 727	1 898	2 134	2 010	1 946	2 101	2 078	2 376	2 331	2 107	2 235	2 499	2 977	Production
Import	-1 490	-1 651	-1 827	-1 874	-1 892	-2 016	-2 193	-2 198	-2 149	-2 189	-2 034	-1 908	-2 202	-2 057	-2 095	-2 173	-2 155	-2 292	-2 399	-2 413	-2 466	-2 311	-2 050	-2 382	-2 226	-2 302	Import
Export																											Export
Final energy consumption	514	791	1 149	1 220	1 289	1 350	1 471	1 512	1 497	1 618	1 637	1 548	1 582	1 552	1 750	1 855	1 926	1 922	2 030	2 092	2 152	2 213	1 898	1 942	2 212	2 459	Final energy consumption
Industry	221	337	478	496	538	564	624	652	638	689	678	599	541	507	583	565	551	585	671	731	797	792	741	802	797	811	Industry
Transport	226	328	505	550	563	598	644	640	620	658	686	675	705	715	827	936	1 019	981	1 005	1 006	986	1 047	781	758	1 009	1 180	Transport
Residential	35	52	69	72	78	79	86	91	99	101	112	106	111	116	119	126	125	132	138	157	140	140	171	175	171	192	Residential
Commerce & public services	33	55	93	97	106	105	113	124	128	158	147	159	180	177	177	184	187	186	200	170	186	195	169	164	185	229	Commerce & public services
Others		19	4.4	4.1	4.0	4.1	3.6	4.2	11	12	12	8.8	45	38	44	44	44	37	17	28	43	39	36	44	51	47	Others
Coal and peat																											Coal and peat
Primary energy supply	57	67	97	122	173	239	306	286	344	371	398	442	611	614	661	641	639	733	785	868	947	885	1 039	958	990	1 065	Primary energy supply
Production	2.9	3.6	10	14	9.3	4.5	10	18	24	24	33	56	63	77	78	76	71	68	64	79	70	91	79	82	90	107	Production
Import	60	66	81	112	144	221	314	277	334	353	407	382	547	558	595	582	574	672	716	803	868	822	931	852	894	963	Import
Export	-1.2	-2.1	-0.8	-1.4	-1.5	-1.5	-3.6	-1.9	-3.0	-11	-8.6	-5.0	-2.6	-5.9	-10	-14	-4.8	-6.5	-0.6	-16		-0.1					Export
Transformation sector	-34	-40	-63	-83	-107	-172	-223	-232	-250	-313	-338	-377	-542	-545	-592	-566	-571	-654	-710	-794	-857	-810	-982	-901	-925	-980	Transformation sector
Power generation	-34	-40	-63	-83	-107	-172	-223	-232	-250	-313	-338	-377	-542	-545	-592	-566	-571	-654	-710	-794	-857	-810	-982	-901	-925	-980	Power generation
Final energy consumption	21	30	41	41	45	51	55	56	56	57	72	68	76	74	73	64	72	74	75	76	76	71	56	58	65	79	Final energy consumption
Industry	21	30	41	41	45	51	55	56	56	57	72	68	76	74	73	64	72	74	75	76	76	71	56	58	65	79	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply																											Primary energy supply
Production																											Production
Import																											Import
Export																											Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption																											Final energy consumption
Industry																											Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											

Major economic indicators of Malaysia

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	17.52	18.02	18.53	19.05	19.59	20.14	22.95	23.54	24.14	24.74	25.33	25.92	26.51	27.09	27.66	28.22	28.72	29.18	29.66	30.13	30.61	31.07	31.53	31.98	32.40	32.80	33.20	33.57	33.94	35.13	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	75	82	89	98	107	117	148	149	157	166	177	187	197	210	220	217	233	245	258	271	287	301	315	333	349	365	344	355	387	401	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	186	204	222	244	266	292	369	371	391	414	442	465	491	522	548	539	579	610	643	674	714	750	784	829	869	908	858	884	1 111	1 153	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	44	49	59	67	74	89	94	93	101	110	125	144	163	194	231	202	255	298	314	323	338	301	301	319	359	365	337	373	407	400	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	4 260	4 537	4 805	5 135	5 454	5 827	6 462	6 331	6 506	6 717	7 004	7 210	7 444	7 743	7 949	7 675	8 101	8 394	8 711	8 977	9 369	9 700	9 984	10 416	10 778	11 115	10 374	10 576	11 399	11 430	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	10 608	11 298	11 963	12 786	13 580	14 508	16 090	15 763	16 200	16 724	17 440	17 951	18 535	19 278	19 792	19 111	20 172	20 900	21 690	22 351	23 328	24 151	24 860	25 935	26 836	27 674	25 831	26 333	32 735	32 812	GDP, PPP (constant 2021 USD)
Nominal (current USD)	2 513	2 728	3 194	3 512	3 802	4 405	4 088	3 941	4 177	4 455	4 924	5 537	6 137	7 144	8 343	7 168	8 880	10 209	10 602	10 728	11 046	9 700	9 556	9 980	11 074	11 132	10 161	11 109	11 993	11 379	Nominal (current USD)
Nominal GDP & its components (billion of current MYR) ¹¹																															Nominal GDP & its components (billion of current MYR) ¹¹
Gross domestic product	119	135	151	172	195	222	356	353	383	419	474	544	597	665	770	713	821	912	971	1 019	1 106	1 177	1 250	1 372	1 448	1 513	1 418	1 545	1 791	1 823	Gross domestic product
Household final consumption expenditure	62	71	76	83	94	107	156	163	172	187	209	240	265	300	344	348	395	437	482	528	580	635	685	760	831	904	863	895	1 032	1 103	Household final consumption expenditure
General government final consumption expenditure	16	19	20	22	24	28	36	42	50	54	60	62	67	77	89	93	103	121	134	140	147	154	157	167	173	176	185	196	209	218	General government final consumption expenditure
Gross fixed capital formation	39	49	55	67	79	97	90	89	90	94	99	121	131	149	158	157	184	202	246	270	287	304	319	344	350	347	297	298	326	351	Gross fixed capital formation
Stock change	-0.8	1.9	-1.9	0.5	1.9	0.1	5.6	-2.6	5.0	1.5	9.9	0.5	4.5	6.7	6.8	-30	7.8	9.2	3.7	-5.5	-11	-5.2	6.0	6.6	-4.4	-29	-17	46	95	59	Stock change
Exports of goods and services	89	105	114	136	174	209	427	389	415	448	547	614	670	706	766	652	714	777	770	770	816	817	834	961	993	987	873	1 064	1 378	1 250	Exports of goods and services
Imports of goods and services	86	110	112	136	177	218	359	328	349	365	450	494	539	574	594	507	583	635	666	683	714	729	751	867	895	874	783	954	1 249	1 157	Imports of goods and services
Real GDP & its components (billion of 2019 MYR) ¹¹																															Real GDP & its components (billion of 2019 MYR) ¹¹
Gross Domestic Product	291	319	348	382	417	458	579	582	613	649	693	730	771	819	859	846	909	957	1 009	1 056	1 120	1 177	1 229	1 301	1 364	1 424	1 345	1 387	1 511	1 568	Gross Domestic Product
Household final consumption expenditure	137	150	157	166	182	203	236	244	253	274	300	328	350	386	420	422	451	482	522	560	599	635	672	719	776	836	801	815	909	952	Household final consumption expenditure
General government final consumption expenditure	31	35	37	40	43	46	53	61	68	74	80	85	90	96	103	108	111	127	133	141	147	154	156	164	170	173	181	191	200	207	General government final consumption expenditure
Gross fixed capital formation	78	96	106	125	146	179	142	139	140	144	149	157	167	185	189	185	205	218	259	280	294	304	312	331	336	329	281	279	298	315	Gross fixed capital formation
Stock change	5.3	28	1.4	22	8.2	27	50	5.7	46	21	41	-2.6	11	11	6.4	-47	34	21	18	-13	-38	-5.2	0.3	1.0	-8.7	-14	-4.8	18	21	26	Stock change
Exports of goods and services	163	189	213	237	289	344	523	487	514	540	627	679	725	757	769	685	756	788	774	776	815	817	828	900	917	908	830	958	1 127	1 036	Exports of goods and services
Imports of goods and services	135	169	179	206	259	321	398	365	388	405	485	528	571	605	620	541	625	664	683	695	723	729	739	815	827	807	743	875	1 044	967	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	20.2	18.6	18.3	16.1	14.5	12.8	11.1	11.0	10.7	10.8	10.6	10.3	10.3	10.5	9.7	8.9	9.4	9.6	9.2	8.9	8.6	8.3	7.6	7.7	7.3	7.1	7.4	7.1	6.6	6.4	Agriculture, Fishery and Forestry
Industry	48.5	48.5	47.6	46.6	46.9	49.8	51.3	49.7	49.2	49.9	50.0	49.0	48.4	45.9	43.4	41.1	40.1	39.0	38.8	38.4	38.4	38.4	38.4	38.0	37.4	36.8	36.6	37.5	36.7	35.9	Industry
Services, etc.	31.6	33.2	34.4	37.5	38.9	38.0	38.5	39.9	40.7	40.0	40.2	41.4	41.9	46.8	48.5	50.4	49.4	50.3	50.9	51.5	51.9	52.0	52.6	53.0	54.0	54.9	54.9	54.2	55.7	56.5	Services, etc.
Industrial production index (2010=100) ¹²	31.6	35.1	38.1	41.7	46.8	52.9	78.4	75.8	79.4	86.7	96.1	100.0	105.0	107.3	108.1	99.9	100.0	102.4	106.7	110.3	116.0	121.5	126.5	132.1	136.1	N.A.	N.A.	0.0	126.2	0.0	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	29.5	34.4	40.8	47.1	58.8	73.9	98.2	88.0	94.1	104.7	126.6	141.6	160.7	176.0	199.4	157.2	198.6	228.1	227.5	228.3	233.9	200.0	189.7	218.1	247.5	238.2	234.8	299.4	352.1	313.0	Exports, f.o.b.
Imports, c.i.f.	29.3	36.6	39.9	45.7	59.6	77.7	82.0	73.7	79.8	83.3	105.2	114.3	130.4	146.2	156.3	123.8	164.6	187.5	196.4	205.9	208.9	176.0	168.7	195.4	217.6	205.0	190.9	238.2	293.8	265.7	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	2.5	0.4	3.2	3.0	1.6	-0.1	20.7	18.3	18.1	25.6	27.4	33.0	38.0	38.1	50.8	40.7	38.4	45.9	36.6	30.6	34.6	27.9	24.5	27.3	28.4	30.1	32.8	42.8	42.2	0.0	Trade balance
Current account	-0.9	-4.2	-2.2	-3.0	-4.5	-8.6	8.5	7.3	7.2	13.4	15.1	20.0	26.2	29.8	38.9	31.8	25.6	32.5	16.3	11.2	14.8	9.1	7.1	9.0	8.0	12.8	14.1	14.5	12.3	0.0	Current account
Overall balance	0.9	1.4	6.6	7.8	-3.2	-1.0	2.2	3.4	4.0	10.2	20.2	10.2	14.3	18.3	5.1	9.1	19.6	40.2	8.9	5.0	-9.2	-5.8	7.3	7.9	11.0	3.7	-4.3	18.4	15.4	0.0	Overall balance
Foreign exchange rate (MYR/USD) ¹¹	2.70	2.75	2.55	2.57	2.62	2.50	3.80	3.80	3.80	3.80	3.80	3.79	3.67	3.44	3.34	3.52	3.22	3.06	3.09	3.15	3.27	3.91	4.15	4.30	4.04	4.14	4.20	4.14	4.40	4.56	Foreign exchange rate (MYR/USD) ¹¹
PPP conversion factor, GDP (MYR/USD) ¹¹	0.97	0.97	0.97	0.99	1.01	1.02	1.19	1.15	1.16	1.18	1.22	1.29	1.30	1.32	1.43	1.34	1.42	1.47	1.45	1.47	1.51	1.57	1.59	1.65	1.63	1.60	1.57	1.58	1.51	1.43	PPP conversion factor, GDP (MYR/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2015=100) ¹³	40.9	42.3	43.3	45.1	46.8	48.5	61.5	60.6	62.5	64.5	68.4	74.5	77.4	81.2	89.7	84.3	90.4	95.3	96.2	96.4	98.8	100.0	101.7	105.5	106.2	106.2	105.4	111.4	118.6	116.3	GDP Deflator (2015=100) ¹³
Producer Price Index (2010=100) ¹²	50.4	52.4	53.0	53.8	56.4	59.5	69.0	69.4	68.9	72.0	77.1	82.4	87.9	92.7	102.2	94.7	100.0	112.3	111.8	108.8	110.4	102.2	101.1	107.9	106.7	N.A.	N.A.	N.A.	120.8	118.5	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	56.8	59.3	62.1	64.3	66.7	69.0	80.5	81.7	83.1	84.0	85.2	87.8	90.9	92.8	97.8	98.4	100.0	103.2	104.9	107.1	110.5	112.8	115.1	119.6	120.7	121.5	120.1	123.1	127.2	130.4	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	9.0	9.5	8.9	9.9	9.2	9.8	8.9	0.5	5.4	5.8	6.8	5.3	5.6	6.3	4.8	-1.5	7.4	5.3	5.5	4.7	6.0	5.1	4.4	5.8	4.8	4.4	-5.5	3.1	8.7	3.6	Real GDP
Population	2.9	2.9	2.8	2.8	2.8	2.8	2.6	2.6	2.5	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.8	1.6</													

Mexico

Energy balance table of Mexico

2023

	Petajoules																						
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables		
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products													
Production	121		4 280								1 491	75	135	94	108	75	355	19		6 753	706	Production	
Import	266	20	49	2 006	923	118	553	2.1	287	124	1 761								7.5	4 110		Import	
Export	-0.1		-2 339	- 434			- 33	- 391		-9.7	-0.3								- 11	-2 784		Export	
International marine bunkers				- 22			- 19	-2.9												- 22		International marine bunkers	
International aviation bunkers				- 103	-0.4	- 103														- 103		International aviation bunkers	
Stock changes	17		0.7	-1.9	2.2	-0.4	4.1	-5.7	-0.6	-1.5										16		Stock changes	
Total primary energy supply	404	20	1 991	1 446	924	14	505	- 398	286	113	3 252	75	135	94	108	75	355	19	-3.7	7 969	706	Total primary energy supply	
Transfers			- 134	157					122	35										22		Transfers	
Total transformation sector	- 356	-7.5	-1 949	1 550	470	74	261	401	21	322	-1 843	- 75	- 135	- 94	- 85	- 75	- 48	- 19	1 369	-1 767	- 376	Total transformation sector	
Main activity producers	- 356			- 236			- 51	- 185			-1 411	- 73	- 135	- 94	- 80	- 33	- 10	- 17	1 168	-1 276	- 289	Main activity producers	
Autoproducers		-1.0		- 45			-6.5	-8.7		- 30	- 432	-2.0			-4.8	- 42	- 38	-2.6	202	- 366	- 87	Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			-1 951	1 833	470	74	318	595	21	354										- 119		Petroleum refineries	
Coal transformation		-6.5																		-6.5		Coal transformation	
Other transformation			2.2	-1.8						-1.8										0.3		Other transformation	
Losses & own use	-0.4	-3.3		- 171				- 27		- 143	- 668								- 244	-1 087		Losses & own use	
Discrepancy	1.9	1.5	93	- 17	0.4			33	2.4	- 53	- 348						- 18		- 22	- 309	- 18	Discrepancy	
Total final consumption	50	11		2 964	1 395	88	766	9.1	431	274	392				23		289		1 099	4 828	312	Total final consumption	
Total final energy consumption	50	11		2 809	1 395	88	766	9.1	428	123	384				23		289		1 099	4 665	312	Total final energy consumption	
Industry sector	50	11		221			45	9.1	44	123	348				1.4		46		635	1 311	47	Industry sector	
Mining and quarrying				14			4.7	1.0	7.9		8.4								41	63		Mining and quarrying	
Construction				8.9			8.9												3.0	12		Construction	
Iron and steel		11		3.8			0.9		0.4	2.5	111								18	143		Iron and steel	
Chemical & petrochemical				12			5.4	1.1	0.9	4.2	97								20	129		Chemical & petrochemical	
Non-ferrous metals																			1.8	1.8		Non-ferrous metals	
Non-metallic minerals	15			102			0.3	2.2	0.2	100	36								40	193		Non-metallic minerals	
Transportation equipment				0.8			0.8				4.4								8.3	13		Transportation equipment	
Machinery				3.1					0.9	2.2										3.1		Machinery	
Food, beverages and tobacco				8.6			5.5	0.8	2.2		16						40		8.7	73	40	Food, beverages and tobacco	
Pulp, paper and printing				5.6			1.1	3.9	0.6		23								9.9	38		Pulp, paper and printing	
Wood and wood products																						Wood and wood products	
Textiles and leather																			3.5	3.5		Textiles and leather	
Non-specified industry	36			62			18		30	14	53				1.4		6.0		481	639	7.5	Non-specified industry	
Transport sector				2 146	1 395	88	596		67		0.7								6.0	2 153		Transport sector	
Domestic air transport				89	0.5	88														89		Domestic air transport	
Road				2 007	1 395		546		67		0.7									2 008		Road	
Rail				24			24												6.0	30		Rail	
Inland waterways				26			26													26		Inland waterways	
Non-specified transport																						Non-specified transport	
Other sector				442			125		317		35				21		243		459	1 201	265	Other sector	
Residential				255					255		23				13		243		272	806	256	Residential	
Commerce and public services				60			1.8		58		12				8.6				70	150	8.6	Commerce and public services	
Agriculture				128			123		4.6										49	177		Agriculture	
Fishery																						Fishery	
Non-specified																			67	67		Non-specified	
Non-energy				155					3.5	151	8.4									163		Non-energy	
Electricity and heat output																							
Electricity generated (GWh)	32 884	88		27 818			4 842	19 659		3 317	231 513	20 796	12 386	4 321	23 560	20 907	1 099	4 987		380 359	70 683	Electricity generated (GWh)	
Electricity plants	32 884	88		27 516			4 719	19 480		3 317	218 521	20 796	12 386	4 321	23 560	20 907	739	4 647		366 365	70 323	Electricity plants	
CHP plants				302			123	179			12 992						360	340		13 994	360	CHP plants	
Heat generated (PJ)																						Heat generated (PJ)	
Heat plants																						Heat plants	
CHP plants																						CHP plants	

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Mexico

2022

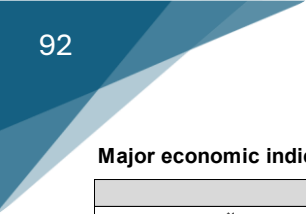
	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	129		4 157								1 391	129	118	98	92	74	357	57		6 602	750	Production
Import	222	32	31	2 048	946	111	532		334	126	1 577								7.7	3 918		Import
Export	-0.1		-2 180	- 446			- 36	- 396		- 14	-0.3								-8.7	-2 635		Export
International marine bunkers				- 24			- 22	-2.4												- 24		International marine bunkers
International aviation bunkers				- 98	-0.4	- 97														- 98		International aviation bunkers
Stock changes	0.4		-1.7	2.6	-0.1	0.9	1.3	-1.0		1.4										1.3		Stock changes
Total primary energy supply	351	32	2 006	1 483	946	15	475	- 400	334	113	2 968	129	118	98	92	74	357	57	-1.0	7 765	750	Total primary energy supply
Transfers			- 124	145					114	31										21		Transfers
Total transformation sector	- 308	9.6	-1 940	1 610	499	67	283	435	16	310	-1 660	- 129	- 118	- 98	- 74	- 74	- 63	- 54	1 313	-1 587	- 438	Total transformation sector
Main activity producers	- 273			- 198			- 51	- 147			-1 226	- 127	- 118	- 98	- 70	- 46	- 13	- 51	1 122	-1 099	- 355	Main activity producers
Autoproducers		-1.6		- 50			-7.2	-8.0		- 35	- 434	-2.2			-3.5	- 28	- 50	-3.1	191	- 382	- 83	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-1 942	1 861	499	67	341	590	16	347										- 82		Petroleum refineries
Coal transformation	- 36	11																		- 24		Coal transformation
Other transformation			2.6	-2.1						-2.1										0.5		Other transformation
Losses & own use		- 12		- 176				- 29		- 147	- 627								- 225	-1 040		Losses & own use
Discrepancy	0.2	-3.6	58	- 42	1.0			2.7	-3.5	- 42	- 292						-0.5	-2.5	-6.8	- 289	-0.5	Discrepancy
Total final consumption	43	26		3 020	1 446	82	758	9.3	460	265	389				18		293		1 080	4 870	311	Total final consumption
Total final energy consumption	43	24		2 878	1 446	82	758	9.3	458	125	381				18		293		1 080	4 717	311	Total final energy consumption
Industry sector	43	24		224			46	9.3	44	125	347				1.5		49		637	1 326	50	Industry sector
Mining and quarrying				14			4.7	1.1	8.2		8.7								42	65		Mining and quarrying
Construction				8.9			8.9												2.8	12		Construction
Iron and steel		24		3.8			0.8		0.4	2.5	111								18	156		Iron and steel
Chemical & petrochemical				12			5.3	1.0	0.9	4.5	100								19	131		Chemical & petrochemical
Non-ferrous metals																			1.8	1.8		Non-ferrous metals
Non-metallic minerals	8.7			105			0.2	2.0	0.2	103	37								40	191		Non-metallic minerals
Transportation equipment				0.8			0.8				4.4								8.3	13		Transportation equipment
Machinery				2.9					0.9	2.0										2.9		Machinery
Food, beverages and tobacco				7.4			4.3	0.9	2.2		16						43		13	79	43	Food, beverages and tobacco
Pulp, paper and printing				5.9			1.1	4.2	0.6		24								10	40		Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																			0.4	0.4		Textiles and leather
Non-specified industry	35			64			20		31	13	47				1.5		5.6		482	634	7.1	Non-specified industry
Transport sector				2 185	1 446	82	586		70		0.6								5.9	2 191		Transport sector
Domestic air transport				83	0.8	82														83		Domestic air transport
Road				2 054	1 445		539		70		0.6									2 055		Road
Rail				24			24												5.9	29		Rail
Inland waterways				24			24													24		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				469			125		343		33				17		244		437	1 200	261	Other sector
Residential				277					277		23				9.7		244		256	810	254	Residential
Commerce and public services				64			1.9		62		11				6.9				68	149	6.9	Commerce and public services
Agriculture				128			123		4.9										49	177		Agriculture
Fishery																						Fishery
Non-specified																			64	64		Non-specified
Non-energy		2.3		143					2.6	140	7.7									153		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	25 222	137		24 480			4 930	15 690		3 860	206 158	35 883	10 850	4 536	20 535	20 517	1 426	14 965		364 709	82 897	Electricity generated (GWh)
Electricity plants	25 222	137		24 200			4 820	15 520		3 860	192 987	35 883	10 850	4 536	20 535	20 517	966	14 425		350 258	82 437	Electricity plants
CHP plants				280			110	170			13 171						460	540		14 451	460	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Mexico

	Petajoules																											
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Total																											Total	
Primary energy supply	5 210	5 558	6 365	6 551	6 618	7 089	7 220	7 614	7 740	7 714	7 755	7 581	7 525	7 877	8 081	8 091	7 937	7 802	7 808	7 638	7 789	7 738	7 254	7 577	7 765	7 969	Primary energy supply	
Production	8 187	8 541	9 601	9 786	10 003	10 811	11 058	11 032	10 963	10 503	9 908	9 396	9 317	9 367	9 149	9 051	8 722	7 938	7 554	6 931	6 678	6 280	6 453	6 489	6 602	6 753	Production	
Import	244	367	1 076	1 008	1 119	1 145	1 158	1 327	1 485	1 574	1 725	1 664	2 009	2 191	2 359	2 357	2 487	2 959	3 536	3 939	4 389	4 259	3 707	3 906	3 918	4 110	Import	
Export	-3 172	-3 267	-4 105	-4 125	-4 375	-4 803	-4 863	-4 660	-4 609	-4 218	-3 728	-3 414	-3 698	-3 580	-3 305	-3 201	-3 112	-3 024	-3 151	-3 066	-3 081	-2 843	-2 917	-2 745	-2 635	-2 784	Export	
Final energy consumption	3 139	3 308	3 733	3 648	3 727	3 887	4 077	4 243	4 457	4 550	4 691	4 437	4 652	4 801	4 817	4 825	4 764	4 854	4 940	4 998	4 787	4 782	4 251	4 167	4 717	4 665	Final energy consumption	
Industry	1 078	1 059	1 166	1 065	1 115	1 166	1 237	1 291	1 393	1 357	1 403	1 211	1 372	1 486	1 470	1 510	1 415	1 480	1 468	1 589	1 410	1 404	1 406	1 279	1 326	1 311	Industry	
Transport	1 217	1 311	1 551	1 584	1 611	1 705	1 798	1 905	2 006	2 123	2 204	2 148	2 189	2 204	2 218	2 196	2 206	2 200	2 284	2 223	2 172	2 212	1 694	1 718	2 191	2 153	Transport	
Residential	659	725	755	736	740	756	747	740	739	744	749	739	745	751	755	735	743	744	744	740	745	741	793	809	810	806	Residential	
Commerce & public services	62	117	143	147	150	122	143	143	150	148	148	147	148	151	155	163	163	167	166	165	198	180	160	156	149	150	Commerce & public services	
Others	123	95	119	117	112	138	152	164	169	179	187	192	197	209	220	221	236	263	278	281	263	245	198	205	241	245	Others	
Coal and peat																											Coal and peat	
Primary energy supply	169	229	270	317	358	449	397	498	538	490	429	437	544	600	522	530	516	459	487	500	482	460	340	281	351	404	Primary energy supply	
Production	157	189	238	234	229	266	295	296	336	357	318	277	335	434	333	321	325	242	291	276	252	207	184	129	129	121	Production	
Import	6.6	24	65	91	153	191	110	193	202	143	121	157	207	195	178	199	199	202	204	254	227	237	149	153	222	266	Import	
Export	-0.1		-0.1	-0.2	-0.1			-0.1	-0.1	-0.2	-2.6	-0.9	-3.2	-7.0	-6.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	Export
Transformation sector	-169	-228	-269	-311	-345	-396	-349	-428	-429	-421	-340	-389	-433	-438	-442	-421	-455	-439	-433	-395	-357	-342	-231	-231	-308	-356	Transformation sector	
Power generation	-72	-140	-183	-227	-264	-312	-268	-345	-344	-336	-254	-316	-341	-350	-357	-331	-364	-366	-380	-345	-309	-302	-184	-194	-273	-356	Power generation	
Final energy consumption				2.0	12	61	59	78	122	74	111	59	131	171	88	117	68	126	44	110	72	71	76	24	43	50	Final energy consumption	
Industry				2.0	12	61	59	78	122	74	111	59	131	171	88	117	68	126	44	110	72	71	76	24	43	50	Industry	
Transport																											Transport	
Residential																											Residential	
Commerce & public services																											Commerce & public services	
Others																											Others	
Coal and peat products																											Coal and peat products	
Primary energy supply	3.4	12	18	12	11	14	14	11	8.8	7.5	10	5.9	11	9.3	11	10	14	20	32	31	32	34	29	38	32	20	Primary energy supply	
Production																											Production	
Import	3.5	12	18	12	11	14	14	11	8.9	7.6	10	5.9	11	9.4	11	10	14	20	32	34	34	29	38	32	20	Import		
Export	-0.1		-0.1			-0.1	-0.1	-0.1	-0.1	-0.1	-0.1										-2.8	-1.3					Export	
Transformation sector	60	33	31	34	37	36	38	43	47	44	43	36	45	45	46	48	47	33	17	17	16	12	15	10	10	-7.5	Transformation sector	
Power generation		-17	-16	-14	-13	-13	-8.9	-6.7	-5.9	-7.6	-6.7	-5.8	-7.5	-5.7	-4.0	-4.9	-5.1	-5.9	-5.1	-3.6	-2.6	-2.4	-2.6	-1.5	-1.6	-1.0	Power generation	
Final energy consumption	39	34	32	29	34	35	34	34	37	32	31	23	32	32	34	35	36	32	30	29	32	31	27	25	24	11	Final energy consumption	
Industry	39	34	32	29	34	35	34	34	37	32	31	23	32	32	34	35	36	32	30	29	32	31	27	25	24	11	Industry	
Transport																											Transport	
Residential																											Residential	
Commerce & public services																											Commerce & public services	
Others																											Others	
Crude oil & NGL																											Crude oil & NGL	
Primary energy supply	3 449	3 569	3 234	3 474	3 473	3 690	3 743	3 851	3 683	3 591	3 648	3 663	3 263	3 280	3 414	3 458	3 364	2 907	2 484	1 999	1 620	1 628	1 599	1 795	2 006	1 991	Primary energy supply	
Production	6 418	6 598	7 167	7 396	7 596	8 260	8 439	8 270	7 984	7 499	7 048	6 581	6 500	6 434	6 396	6 276	6 063	5 483	5 220	4 721	4 425	4 109	4 099	4 139	4 157	4 280	Production	
Import	10																											



Major economic indicators of Mexico

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	81.72	83.35	84.99	86.65	88.31	89.97	97.87	99.39	100.92	102.43	103.95	105.44	106.89	108.30	109.68	111.05	112.53	114.15	115.76	117.29	118.76	120.15	121.52	122.84	124.01	125.09	126.00	126.71	127.50	129.74	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	621	646	668	689	723	677	876	873	873	885	920	941	983	1 006	1 017	964	1 013	1 050	1 088	1 103	1 135	1 172	1 203	1 228	1 255	1 253	1 153	1 207	1 285	1 330	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	1 244	1 294	1 339	1 380	1 449	1 357	1 756	1 749	1 748	1 774	1 843	1 886	1 970	2 016	2 039	1 931	2 030	2 104	2 181	2 210	2 273	2 348	2 410	2 461	2 515	2 510	2 309	2 418	2 783	2 842	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	261	313	363	501	528	360	708	757	772	729	782	877	975	1 053	1 110	900	1 058	1 180	1 201	1 274	1 315	1 172	1 078	1 159	1 222	1 269	1 091	1 273	1 463	1 794	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	7 595	7 747	7 864	7 951	8 186	7 530	8 955	8 782	8 646	8 642	8 850	8 925	9 200	9 288	9 276	8 678	9 002	9 199	9 402	9 405	9 553	9 753	9 897	9 998	10 120	10 014	9 147	9 525	10 079	10 254	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	15 218	15 523	15 757	15 930	16 402	15 088	17 943	17 597	17 324	17 315	17 732	17 884	18 435	18 611	18 586	17 388	18 037	18 432	18 839	18 844	19 142	19 543	19 831	20 032	20 278	20 065	18 328	19 086	21 829	21 905	GDP, PPP (constant 2021 USD)
Nominal (current USD)	3 197	3 757	4 273	5 779	5 976	4 002	7 233	7 613	7 651	7 120	7 525	8 322	9 125	9 720	10 120	8 105	9 400	10 342	10 376	10 866	11 076	9 753	8 875	9 434	9 857	10 145	8 655	10 046	11 477	13 826	Nominal (current USD)
Nominal GDP & its components (billion of current MXN) ¹¹																															Nominal GDP & its components (billion of current MXN) ¹¹
Gross domestic product	735	945	1 124	1 560	1 781	2 311	6 694	7 069	7 455	7 869	8 828	9 563	10 631	11 504	12 354	12 163	13 366	14 666	15 818	16 277	17 484	18 572	20 129	21 934	23 524	24 446	23 430	25 804	29 453	31 856	Gross domestic product
Household final consumption expenditure	514	669	808	1 082	1 223	1 531	4 548	4 871	5 194	5 526	6 032	6 563	7 151	7 727	8 269	8 007	8 735	9 504	10 238	10 819	11 515	12 148	13 189	14 305	15 238	15 866	14 777	16 846	20 802	22 248	Household final consumption expenditure
General government final consumption expenditure	62	86	112	142	169	198	637	699	774	868	926	1 006	1 100	1 197	1 326	1 449	1 573	1 727	1 890	1 984	2 132	2 288	2 418	2 548	2 722	2 785	2 930	3 045	3 233	3 536	General government final consumption expenditure
Gross fixed capital formation	132	177	221	325	386	378	1 438	1 409	1 437	1 556	1 808	1 980	2 290	2 524	2 862	2 691	2 885	3 267	3 613	3 459	3 671	4 166	4 590	4 846	5 179	5 038	4 427	5 212	6 587	7 623	Gross fixed capital formation
Stock change	39	44	42	34	58	107	98	64	107	104	145	90	136	135	116	93	162	148	165	202	153	164	165	178	164	135	- 29	138	100	2	Stock change
Exports of goods and services	137	155	171	192	238	558	1 701	1 602	1 681	1 917	2 281	2 509	2 905	3 167	3 422	3 303	3 970	4 552	5 104	5 096	5 573	6 412	7 456	8 259	9 235	9 490	9 253	10 606	12 594	11 521	Exports of goods and services
Imports of goods and services	146	183	228	243	309	512	1 809	1 732	1 800	2 034	2 441	2 649	3 058	3 367	3 715	3 504	4 152	4 756	5 299	5 283	5 779	6 791	7 854	8 656	9 716	9 552	8 774	11 054	13 456	11 979	Imports of goods and services
Real GDP & its components (billion of 2019 MXN) ¹¹																															Real GDP & its components (billion of 2019 MXN) ¹¹
Gross Domestic Product	9 159	9 529	9 863	10 166	10 668	9 997	12 933	12 881	12 875	13 062	13 574	13 887	14 511	14 844	15 014	14 220	14 948	15 495	16 060	16 277	16 741	17 292	17 747	18 122	18 520	18 483	17 007	17 810	24 221	25 073	Gross Domestic Product
Household final consumption expenditure	5 779	6 061	6 298	6 310	6 645	6 254	8 398	8 608	8 754	8 949	9 376	9 635	10 026	10 277	10 350	9 703	10 052	10 389	10 633	10 819	11 052	11 349	11 764	12 139	12 450	12 495	11 207	12 056	16 747	17 560	Household final consumption expenditure
General government final consumption expenditure	1 300	1 351	1 382	1 410	1 452	1 437	1 657	1 612	1 617	1 615	1 599	1 635	1 679	1 710	1 760	1 812	1 853	1 909	1 974	1 984	2 036	2 075	2 129	2 143	2 204	2 165	2 158	2 146	2 673	2 744	General government final consumption expenditure
Gross fixed capital formation	1 810	1 960	2 173	2 146	2 460	1 578	2 664	2 470	2 414	2 439	2 612	2 774	3 033	3 209	3 420	3 021	3 163	3 411	3 579	3 459	3 560	3 730	3 761	3 716	3 746	3 569	2 937	3 244	5 207	6 109	Gross fixed capital formation
Stock change	90	83	158	125	138	208	156	103	144	164	214	123	176	161	124	103	172	140	161	202	157	156	146	143	130	102	- 27	89	58	23	Stock change
Exports of goods and services	1 349	1 411	1 435	1 488	1 619	1 946	3 104	3 088	3 101	3 160	3 472	3 691	3 979	4 058	4 016	3 580	4 381	4 719	5 027	5 096	5 451	5 910	6 122	6 377	6 760	6 859	6 358	6 809	10 347	9 661	Exports of goods and services
Imports of goods and services	1 132	1 322	1 597	1 577	1 857	1 561	3 477	3 448	3 489	3 577	3 809	4 014	4 363	4 573	4 723	3 970	4 647	4 908	5 174	5 283	5 596	5 928	6 097	6 485	6 902	6 851	5 911	6 835	10 797	11 295	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	3.9	3.9	3.6	3.6	3.5	3.8	3.2	3.4	3.3	3.4	3.4	3.2	3.2	3.3	3.2	3.3	3.3	3.0	3.1	3.1	3.2	3.1	3.2	3.2	3.2	3.2	3.5	3.4	3.5	3.3	Agriculture, Fishery and Forestry
Industry	37.2	36.9	37.2	36.2	36.5	34.7	36.3	35.7	35.1	35.3	35.2	35.2	35.1	34.6	33.8	33.1	32.9	32.6	32.4	31.9	31.8	31.1	30.4	29.7	29.2	28.7	28.3	28.5	32.1	31.9	Industry
Services, etc.	55.7	56.2	56.4	56.2	56.1	57.7	56.7	57.1	57.7	57.5	57.6	57.8	57.7	58.2	58.9	59.6	59.9	60.4	60.6	61.1	61.0	61.7	62.1	62.7	63.2	63.7	64.1	63.8	58.9	59.3	Services, etc.
Industrial production index (2010=100) ¹²	68.0	70.1	73.2	73.5	77.1	71.2	95.7	93.3	92.5	94.0	97.7	100.2	104.5	105.1	103.2	95.7	100.0	102.9	105.7	105.6	108.3	109.5	109.7	109.7	110.1	108.1	97.3	N.A.	74.6	111.4	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	40.7	42.7	46.2	51.9	60.9	79.5	166.4	158.5	160.7	165.4	188.0	214.2	250.0	271.8	291.3	229.7	298.3	349.6	370.8	380.0	396.9	380.6	373.9	409.4	450.7	460.6	417.2	494.8	577.7	593.0	Exports, f.o.b.
Imports, c.i.f.	43.5	51.7	64.2	67.5	82.0	74.4	179.5	173.0	173.1	175.0	202.3	228.2	263.5	290.2	318.3	241.5	310.2	361.1	380.5	391.0	411.6	405.3	397.5	432.2	476.8	467.1	393.3	522.5	626.3	621.5	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	-4.4	-11.3	-20.7	-18.9	-24.3	2.2	-8.4	-9.6	-7.6	-5.8	-8.8	-7.7	-6.3	-10.3	-17.6	-4.9	-2.9	-1.2	0.3	-0.9	-2.8	-14.6	-13.1	-11.0	-13.8	5.2	34.2	-10.7	-27.1	-12.4	Trade balance
Current account	-7.5	-14.9	-24.4	-23.4	-29.7	-1.6	-18.8	-17.8	-12.4	-4.1	-3.8	-5.7	-3.2	-10.0	-17.4	-7.9	-4.5	-11.3	-18.6	-32.7	-25.9	-32.3	-26.1	-22.2	-26.0	-5.7	22.5	-8.3	-18.0	-12.6	Current account
Overall balance	1.0	10.3	2.6	10.4	-13.9	-12.1	6.6	12.6	4.7	13.7	8.1	6.3	7.4	13.0	14.3	8.4	44.6	40.5	26.7	23.5	25.2	-14.1	6.7	6.3	5.6	12.8	13.7	3.6	-4.9	3.2	Overall balance
Foreign exchange rate (MXN/USD) ¹¹	2.81	3.02	3.09	3.12	3.38	6.42	9.46	9.34	9.66	10.79	11.29	10.90	10.90	10.93	11.13	13.51	12.64	12.42	13.17	12.77	13.29	15.85	18.66	18.93	19.24	19.26	21.49	20.27	20.13	17.76	Foreign exchange rate (MXN/USD) ¹¹
PPP conversion factor, GDP (MXN/USD) ¹¹	1.35	1.61	1.80	2.06	2.19	2.97	6.10	6.33	6.55	6.64	6.99	7.13	7.16	7.37	7.47	7.43	7.68	7.67	7.86	7.88	8.05	8.33	8.45	8.91	9.28	9.66	10.04	10.40	9.68	9.88	PPP conversion factor, GDP (MXN/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2013=100) ¹³	8.0	9.9	11.4	15.3	16.7	23.1	51.8	54.9	57.9	60.2	65.0	68.9	73.3	77.5	82.3	85.5	89.4	94.6	98.5	100.0	104.4	107.4	113.4	121.0	127.0	132.3	137.8	144.9	121.6	127.0	GDP Deflator (2013=100) ¹³
Producer Price Index (2010=100) ¹²	11.9	14.5	16.2	17.4	18.5	25.7	57.7	60.6	63.7	68.4	74.3	77.8	82.1	85.8	91.9	96.0	100.0	105.2	110.1	111.6	114.6	117.9	124.6	133.2	140.5	N.A.	N.A.	N.A.	174.1		

New Zealand

Energy balance table of New Zealand

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production	62		42								133	96		206	1.7	12	39	1.0		592	354
Import	5.1			318	100	56	144	5.3	1.5	11							0.2			323	0.2
Export	- 35		- 36																	- 71	
International marine bunkers				-7.8			-3.2	-4.6												-7.8	
International aviation bunkers				- 40		- 40														- 40	
Stock changes	3.9		1.9	-5.6	-0.9	-1.3	-4.5	-0.4		1.5	0.8						0.1			1.0	0.1
Total primary energy supply	36		7.6	264	99	14	136	0.3	1.5	13	134	96		206	1.7	12	39	1.0		797	355
Transfers			-6.4	6.8	0.2	-0.1	-0.2		6.8	0.1										0.4	
Total transformation sector	- 21	3.6		-0.1			-0.1				- 39	- 96		- 199	-1.3	- 12	- 19	-1.0	161	- 223	- 326
Main activity producers	-5.4			-0.1			-0.1				- 37	- 96		- 198		- 12	-2.0		155	- 194	- 307
Autoproducers		-6.6									-1.9			-1.2	-1.3		- 17	-1.0	6.7	- 22	- 20
Gas processing																					
Petroleum refineries																					
Coal transformation	- 16	10																		-5.5	
Other transformation																			-0.8	-0.8	
Losses & own use	-0.2	-2.1	-0.6								-3.4								- 16	- 23	
Discrepancy	3.2		-0.6		-3.6	0.6	0.5	1.1	1.0	0.3	4.3						4.6		-5.3	6.2	4.6
Total final consumption	18	1.5		271	96	15	136	1.4	9.3	13	96			7.4	0.4		25		139	558	33
Total final energy consumption	18	1.5		258	96	15	136	1.4	9.3		62			7.4	0.4		25		139	511	33
Industry sector	16	1.5		19	0.2		15	0.8	3.6		47			4.4			18		45	152	23
Mining and quarrying				2.6			2.6				0.1								1.2	4.0	
Construction				7.0	0.1		6.9				0.3								1.6	8.8	
Iron and steel		1.5									1.8								4.4	7.7	
Chemical & petrochemical											22								1.2	23	
Non-ferrous metals											0.2								18	18	
Non-metallic minerals	1.9										1.7								0.9	4.5	
Transportation equipment																			0.1	0.2	
Machinery											0.1								0.5	0.6	
Food, beverages and tobacco	13										18								11	42	
Pulp, paper and printing											2.0								0.7	2.7	
Wood and wood products	0.1										0.4								2.9	3.5	
Textiles and leather	0.1										0.2								0.4	0.7	
Non-specified industry	0.6			9.7	0.1		5.1	0.8	3.6		0.1			4.4			18		2.3	35	23
Transport sector				206	93	15	98	0.6	0.1								0.2		1.0	207	0.2
Domestic air transport				15	0.3	15														15	
Road				190	92		98		0.1								0.1		0.8	191	0.1
Rail																			0.2	0.2	
Inland waterways				0.6				0.6												0.6	
Non-specified transport																					
Other sector	2.1			32	2.7		24		5.5		14			3.0	0.4		6.3		93	152	9.7
Residential	0.1			4.6	0.1		0.8		3.7		6.5			0.2	0.4		6.1		48	66	6.6
Commerce and public services	0.5			10	0.5		7.9		1.7		7.0			2.4			0.2		34	54	2.6
Agriculture	1.5			16	2.0		14		0.1		0.9			0.4					8.8	28	0.4
Fishery				1.7	0.1		1.6												0.2	1.9	
Non-specified																			2.7	2.7	
Non-energy				13						13	35									48	
Electricity and heat output																					
Electricity generated (GWh)	541	563		5			5				4 384	26 572		8 224	370	3 238	731	35		44 662	39 135
Electricity plants	540			5			5				3 712	26 572		8 172	370	3 238	229			42 838	38 581
CHP plants	1	563									672			52			502	35		1 824	554
Heat generated (PJ)																		1		1	
Heat plants																					
CHP plants																		1		1	

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of New Zealand

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	62		39								129	95		205	1.4	10	44	1.2		587	356	Production
Import	15		35	258	86	28	124	3.8	2.3	13							0.3			308	0.3	Import
Export	- 36		- 29	- 12	-4.1	-0.8	-1.8	-3.3	-1.4	-0.5										- 78		Export
International marine bunkers				-5.9			-3.9	-2.0												-5.9		International marine bunkers
International aviation bunkers				- 23		- 23														- 23		International aviation bunkers
Stock changes	0.1		5.7	3.5	1.3	-0.7	-0.4	-0.4		3.6	3.4									13		Stock changes
Total primary energy supply	41		51	220	83	3.4	118	-1.9	0.9	16	132	95		205	1.4	10	45	1.2		801	356	Total primary energy supply
Transfers			3.6	-2.6	-1.4		-1.5	-1.1	7.4	-6.0										1.0		Transfers
Total transformation sector	- 23	4.1	- 49	48	14	5.7	19	4.6		5.1	- 38	- 95		- 198	-1.0	- 10	- 19	-1.2	161	- 221	- 322	Total transformation sector
Main activity producers	-7.3			-0.1			-0.1				- 36	- 95		- 196		- 10	-1.9		155	- 192	- 303	Main activity producers
Autoproducers		-7.2									-1.8			-1.2	-1.0		- 17	-1.2	7.0	- 23	- 19	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 49	48	14	5.7	19	4.6		5.1										-1.2		Petroleum refineries
Coal transformation	- 16	11																		-4.8		Coal transformation
Other transformation																			-1.0	-1.0		Other transformation
Losses & own use	-0.4	-2.4		-2.2						-2.2	-4.2								- 18	- 27		Losses & own use
Discrepancy	2.2		-5.4	7.5	0.4	5.0	1.6	0.1	0.9	-0.6	-0.5						4.6		-4.2	4.2	4.6	Discrepancy
Total final consumption	19	1.7		271	96	14	137	1.7	9.2	13	90			7.4	0.4		30		139	558	38	Total final consumption
Total final energy consumption	19	1.7		258	96	14	137	1.7	9.2		58			7.4	0.4		30		139	514	38	Total final energy consumption
Industry sector	17	1.7		20	0.1		16	0.5	3.6		45			4.4			24		47	159	28	Industry sector
Mining and quarrying				2.8			2.8				0.1								1.2	4.2		Mining and quarrying
Construction				7.0			6.9				0.3								1.6	8.9		Construction
Iron and steel		1.7									1.9								4.5	8.0		Iron and steel
Chemical & petrochemical											21								1.3	22		Chemical & petrochemical
Non-ferrous metals	0.2										0.3								18	19		Non-ferrous metals
Non-metallic minerals	2.0										2.1								0.9	5.0		Non-metallic minerals
Transportation equipment											0.1								0.1	0.2		Transportation equipment
Machinery											0.1								0.5	0.6		Machinery
Food, beverages and tobacco	14										15								11	40		Food, beverages and tobacco
Pulp, paper and printing											2.3								0.8	3.1		Pulp, paper and printing
Wood and wood products	0.2										0.3								4.6	5.1		Wood and wood products
Textiles and leather	0.2										0.3								0.3	0.9		Textiles and leather
Non-specified industry	0.3			11	0.1		6.5	0.5	3.6		0.1			4.4			24		2.3	41	28	Non-specified industry
Transport sector				204	93	14	96	0.7	0.1								0.1		0.7	205	0.1	Transport sector
Domestic air transport				14	0.3	14														14		Domestic air transport
Road				189	92		96		0.1								0.1		0.5	190	0.1	Road
Rail																			0.2	0.2		Rail
Inland waterways				0.7				0.7												0.7		Inland waterways
Non-specified transport																						Non-specified transport
Other sector	2.1			34	3.5		24	0.5	5.5		14			3.0	0.4		6.4		91	150	9.7	Other sector
Residential	0.1			4.6	0.1		0.8		3.7		6.1			0.2	0.4		6.1		47	64	6.7	Residential
Commerce and public services	0.5			12	2.1		7.6	0.5	1.7		6.7			2.4			0.2		33	55	2.6	Commerce and public services
Agriculture	1.4			15	1.2		14		0.1		0.9			0.4					8.6	27	0.4	Agriculture
Fishery				2.0	0.1		2.0												0.2	2.2		Fishery
Non-specified																			2.0	2.0		Non-specified
Non-energy				13						13	32									44		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	722	617		7			7				4 583	26 274		8 515	284	2 865	754	42		44 663	38 691	Electricity generated (GWh)
Electricity plants	719			7			7				3 738	26 274		8 463	284	2 865	218			42 568	38 104	Electricity plants
CHP plants	3	617									845			52			535	42		2 095	587	CHP plants
Heat generated (PJ)																		1		1		Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																		1		1		CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of New Zealand

	Petajoules																										
Total	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
Primary energy supply	543	629	722	715	715	705	723	705	707	717	731	734	755	754	790	799	847	854	842	847	843	868	820	832	801	797	Primary energy supply
Production	488	536	598	601	611	555	552	535	552	589	623	635	693	663	657	665	698	682	663	651	636	644	616	598	587	592	Production
Import	160	214	249	252	269	293	313	310	314	317	318	315	301	310	313	333	327	328	353	348	370	369	322	314	308	323	Import
Export	- 71	- 86	- 108	- 115	- 115	- 109	- 92	- 104	- 113	- 135	- 194	- 172	- 180	- 167	- 156	- 139	- 137	- 125	- 111	- 104	- 88	- 92	- 71	- 69	- 78	- 71	Export
Final energy consumption	370	416	455	465	485	485	493	483	486	492	486	477	487	484	487	496	514	522	520	534	536	544	507	513	514	511	Final energy consumption
Industry	139	150	160	166	177	164	165	152	150	154	150	144	155	150	149	159	170	170	168	169	169	175	159	156	159	152	Industry
Transport	124	153	170	171	178	185	189	190	192	194	195	191	191	192	190	192	194	202	206	219	221	215	195	204	205	207	Transport
Residential	51	52	57	59	58	61	62	61	63	62	60	63	61	62	62	61	61	61	61	61	63	63	64	66	64	66	Residential
Commerce & public services	34	35	39	39	40	43	46	48	48	48	47	47	48	47	50	49	51	52	51	52	52	55	53	54	55	54	Commerce & public services
Others	23	25	29	30	31	33	30	32	34	34	33	31	32	33	36	35	38	37	34	33	30	36	35	34	31	32	Others
Coal and peat																											Coal and peat
Primary energy supply	50	48	52	57	48	77	90	92	83	72	88	65	56	60	69	62	57	57	48	48	49	54	49	61	41	36	Primary energy supply
Production	60	90	87	99	113	129	130	132	143	119	119	110	132	122	121	115	98	81	68	68	75	70	64	66	62	62	Production
Import			0.5	0.9	2.2	10	19	24	27	16	13	15	5.5	3.6		13	8.9	9.1	10	10	14	22	22	37	15	5.1	Import
Export	- 10	- 41	- 46	- 54	- 58	- 66	- 57	- 70	- 81	- 60	- 75	- 64	- 71	- 64	- 66	- 63	- 52	- 41	- 36	- 35	- 37	- 42	- 32	- 35	- 36	- 35	Export
Transformation sector	- 19	- 22	- 24	- 30	- 29	- 48	- 57	- 67	- 65	- 41	- 56	- 42	- 31	- 33	- 45	- 35	- 31	- 30	- 23	- 24	- 27	- 33	- 33	- 42	- 23	- 21	Transformation sector
Power generation	- 5.7	- 6.6	- 10	- 15	- 14	- 31	- 40	- 51	- 48	- 25	- 41	- 26	- 13	- 16	- 28	- 17	- 13	- 12	- 4.8	- 5.6	- 9.2	- 16	- 17	- 24	- 7.3	- 5.4	Power generation
Final energy consumption	28	25	19	24	25	30	23	22	23	26	27	22	24	22	23	26	24	25	22	23	25	23	20	20	19	18	Final energy consumption
Industry	22	21	17	22	22	27	20	19	20	22	23	19	20	18	18	21	21	21	20	19	22	21	18	18	17	16	Industry
Transport	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.1	0.1	Transport
Residential	3.6	1.2	1.0	0.7	0.6	0.8	0.8	0.8	0.7	0.5	0.3	0.8	0.5	0.7	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	Residential	
Commerce & public services	1.5	1.4	1.2	1.5	1.4	1.7	1.4	1.3	1.3	1.4	1.5	1.2	1.4	1.2	1.3	1.4	1.0	0.9	1.0	0.9	0.7	0.7	0.5	0.4	0.5	0.5	Commerce & public services
Others	0.4	0.9	0.6	0.6	0.6	0.5	0.5	1.2	1.9	1.4	1.7	0.8	1.9	2.1	3.4	3.0	1.7	2.0	1.1	2.5	1.9	1.8	1.5	1.4	1.4	1.5	Others
Coal and peat products																											Coal and peat products
Primary energy supply																											Primary energy supply
Production																											Production
Import																											Import
Export																											Export
Transformation sector	6.4	7.1	3.7	3.9	3.8	4.1	4.2	3.9	3.9	4.0	3.8	3.6	4.1	3.5	3.7	4.0	3.8	4.0	3.6	3.9	3.8	4.6	4.2	4.5	4.1	3.6	Transformation sector
Power generation	- 1.4	- 2.0	- 6.3	- 6.9	- 6.5	- 7.8	- 7.6	- 7.0	- 7.4	- 7.1	- 6.8	- 6.6	- 7.6	- 6.6	- 7.2	- 7.5	- 7.3	- 7.5	- 7.0	- 7.4	- 7.1	- 7.9	- 7.1	- 7.9	- 7.2	- 6.6	Power generation
Final energy consumption	0.5	0.7	1.5	1.6	1.5	1.8	1.7	1.6	1.7	1.6	1.6	1.5	1.7	1.5	1.6	1.7	1.6	1.7	1.6	1.7	1.6	1.8	1.7	1.8	1.7	1.5	Final energy consumption
Industry	0.5	0.7	1.5	1.6	1.5	1.8	1.7	1.6	1.7	1.6	1.6	1.5	1.7	1.5	1.6	1.7	1.6	1.7	1.6	1.7	1.6	1.8	1.7	1.8	1.7	1.5	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	183	214	227	223	235	229	222	218	220	210	222	219	229	237	253	240	233	249	238	237	224	249	165	172	51	7.6	Primary energy supply
Production	82	79	81	77	71	55	49	45	44	87	123	116	115	100	89	78	87	90	77	70	56	58	49	43	39	42	Production
Import	138	174	198	196	209	218	202	202	200	197	208	205	219	225	235	229	220	228	233	230	215	224	163	145	35		Import
Export	- 40	- 44	- 53	- 55	- 47	- 39	- 31	- 27	- 28	- 70	- 111	- 99	- 103	- 90	- 77	- 64	- 73	- 76	- 66	- 59	- 45	- 45	- 38	- 25	- 29	- 36	Export
Transformation sector	- 177	- 206	- 218																								

Major economic indicators of New Zealand

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	3.33	3.50	3.53	3.57	3.62	3.67	3.86	3.88	3.95	4.03	4.09	4.13	4.18	4.22	4.26	4.30	4.35	4.38	4.41	4.44	4.52	4.61	4.71	4.81	4.90	4.98	5.09	5.11	5.12	5.25	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	88	87	88	94	98	103	119	123	129	135	140	145	149	154	152	152	154	157	161	165	172	178	185	191	198	202	200	209	217	221	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	93	92	93	99	104	109	126	131	137	143	149	154	158	163	161	161	164	167	171	176	182	189	196	203	210	215	212	222	253	257	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	45	43	42	47	55	64	53	54	67	88	104	115	112	137	133	121	147	168	176	191	201	178	189	207	212	213	212	250	247	255	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	26 399	24 876	24 888	26 178	27 155	28 024	30 863	31 745	32 657	33 475	34 310	35 052	35 625	36 363	35 655	35 252	35 394	35 916	36 521	37 219	38 002	38 631	39 196	39 759	40 365	40 599	39 216	40 868	42 321	42 208	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	28 032	26 415	26 427	27 798	28 835	29 757	32 773	33 709	34 677	35 546	36 432	37 220	37 828	38 612	37 860	37 433	37 583	38 137	38 781	39 521	40 353	41 020	41 620	42 219	42 862	43 110	41 642	43 396	49 474	49 084	GDP, PPP (constant 2021 USD)
Nominal (current USD)	13 663	12 230	11 793	13 094	15 280	17 400	13 641	13 883	16 874	21 914	25 420	27 751	26 655	32 480	31 253	28 209	33 677	38 388	39 973	42 977	44 573	38 631	40 058	42 925	43 250	42 865	41 597	48 909	48 217	48 655	Nominal (current USD)
Nominal GDP & its components (billion of current NZD) ¹¹																															Nominal GDP & its components (billion of current NZD) ¹¹
Gross domestic product	76	76	78	85	91	96	120	129	135	145	155	163	172	187	189	194	203	213	217	233	243	255	271	291	306	323	328	361	389	416	Gross domestic product
Household final consumption expenditure	46	46	46	48	52	56	69	73	78	83	89	95	100	106	109	113	118	124	128	134	139	146	157	167	177	185	186	206	226	N.A.	Household final consumption expenditure
General government final consumption expenditure	14	14	15	15	15	16	20	22	23	24	26	29	32	34	37	38	40	42	42	44	46	47	49	52	56	61	67	75	82	N.A.	General government final consumption expenditure
Gross fixed capital formation	16	13	14	17	19	22	25	28	30	34	37	40	41	45	43	39	40	43	45	50	55	58	61	67	72	76	76	89	99	103	Gross fixed capital formation
Stock change	-0.2	-0.1	0.6	1.4	1.2	1.2	1.4	1.9	1.1	1.3	1.6	1.1	-0.3	1.6	0.1	-0.9	0.9	1.3	0.8	1.8	1.3	0.7	1.5	2.1	1.5		0.8	-0.4	1.6	-3.7	Stock change
Exports of goods and services	20	22	24	26	28	28	43	46	44	43	46	46	51	55	61	56	62	65	63	67	68	71	72	80	85	88	71	80	95	99	Exports of goods and services
Imports of goods and services	20	19	22	23	25	26	39	41	40	41	45	48	52	54	61	51	57	61	61	63	66	69	70	77	86	88	73	94	116	111	Imports of goods and services
Real GDP & its components (billion of 2019 NZD) ¹¹																															Real GDP & its components (billion of 2019 NZD) ¹¹
Gross Domestic Product	126	125	126	134	141	147	171	176	185	193	201	208	214	220	218	218	221	226	231	237	246	255	265	274	284	291	289	304	311	360	Gross Domestic Product
Household final consumption expenditure	69	67	67	70	74	77	90	92	97	103	108	113	116	121	120	121	124	128	131	136	141	146	156	163	171	175	174	185	191	N.A.	Household final consumption expenditure
General government final consumption expenditure	26	26	26	26	27	28	31	32	33	34	36	38	39	41	43	42	43	44	44	45	46	47	48	50	52	55	59	64	64	N.A.	General government final consumption expenditure
Gross fixed capital formation	21	18	18	21	24	27	30	33	36	41	44	46	46	49	46	41	43	45	48	52	56	58	60	64	67	69	68	75	76	85	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	26	29	30	32	35	36	46	48	52	53	55	54	56	58	57	59	61	62	64	64	67	71	73	75	77	77	63	64	68	83	Exports of goods and services
Imports of goods and services	20	20	21	23	26	27	34	35	38	42	48	50	50	55	53	48	54	57	58	63	67	69	72	78	81	82	69	80	84	89	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	5.9	6.0	5.2	5.7	5.5	5.6	5.5	5.2	4.9	5.2	4.9	5.0	4.9	4.0	4.4	4.5	4.1	4.5	4.6	4.5	4.5	4.5	4.3	4.0	4.2	4.0	4.2	4.0	4.0	5.6	Agriculture, Fishery and Forestry
Industry	26.7	25.9	26.2	26.3	26.7	26.1	24.5	23.9	24.7	24.3	24.3	23.8	23.2	23.8	22.6	22.4	22.2	21.3	21.3	21.1	21.2	21.2	21.0	21.0	20.8	20.7	20.5	20.2	18.7	18.0	Industry
Services, etc.	59.9	60.7	61.1	60.5	60.2	60.6	62.3	63.1	62.4	62.3	62.6	63.0	63.7	63.8	64.7	64.9	65.5	66.0	65.9	66.2	66.0	66.0	66.1	66.3	66.4	66.7	66.9	67.3	68.7	68.2	Services, etc.
Manufacturing production index (2010=100) ¹²	74.5	72.0	74.3	79.0	83.2	85.0	90.3	90.2	95.3	98.6	101.8	102.0	100.8	104.7	103.4	96.5	100.0	97.1	97.6	98.1	101.1	102.7	104.3	105.8	107.5	108.7	104.0	0.0	0.0	N/A	Manufacturing production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	9.4	9.6	9.8	10.5	12.2	13.6	13.3	13.7	14.4	16.5	20.3	21.7	22.4	26.9	30.6	24.9	31.4	37.7	37.3	39.4	41.6	34.4	33.8	38.1	39.7	39.5	38.4	44.8	45.1	41.4	Exports, f.o.b.
Imports, c.i.f.	9.5	8.4	9.2	9.6	11.9	14.0	13.9	13.3	15.0	18.6	23.2	26.2	26.4	30.9	34.4	25.6	30.6	37.1	38.3	39.6	42.5	36.6	36.1	40.1	43.8	42.4	37.2	49.9	54.2	50.0	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.5	1.3	0.1	-0.6	-1.7	-3.0	-2.5	-2.2	-2.1	1.0	2.0	2.2	0.1	1.1	1.0	-1.3	-1.9	-1.5	-3.5	-2.4	1.5	-4.1	-7.7	-6.5	Trade balance
Current account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-1.7	-0.4	-1.4	-2.1	-4.7	-8.0	-7.9	-9.3	-10.3	-3.0	-3.4	-4.8	-6.9	-5.8	-6.2	-4.7	-4.0	-5.8	-8.6	-5.9	-2.4	-14.8	-21.6	-15.8	Current account
Overall balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.7	0.7	1.2	3.8	4.5	3.3	5.3	1.2	-7.6	2.9	1.0	5.7	0.4	-7.2	-3.2	-6.4	6.0	-1.9	-8.4	-1.8	-1.7	-0.4	-7.6	-3.4	Overall balance
Foreign exchange rate (NZD/USD) ¹¹	1.68	1.73	1.86	1.85	1.69	1.52	2.20	2.38	2.16	1.72	1.51	1.42	1.54	1.36	1.42	1.60	1.39	1.27	1.23	1.22	1.21	1.43	1.44	1.41	1.45	1.52	1.54	1.41	1.58	1.63	Foreign exchange rate (NZD/USD) ¹¹
PPP conversion factor, GDP (NZD/USD) ¹¹	1.54	1.50	1.49	1.49	1.46	1.47	1.44	1.47	1.47	1.50	1.51	1.54	1.48	1.51	1.49	1.47	1.50	1.49	1.50	1.45	1.44	1.48	1.44	1.43	1.47	1.42	1.41	1.46	1.45	1.47	PPP conversion factor, GDP (NZD/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2015=100) ¹³	60.5	61.0	62.2	63.1	64.3	65.3	70.3	73.0	73.2	74.7	76.8	78.3	80.4	84.7	87.0	89.3	92.1	94.4	94.3	98.2	98.6	100.0	102.3	105.9	107.8	111.1	113.4	118.8	125.3	115.3	GDP Deflator (2015=100) ¹³
Producer Price Index (2010=100) ¹²	61.4	61.9	63.2	64.8	65.7	66.2	73.1	77.5	77.6	77.0	78.5	82.1	87.2	89.3	98.9	97.4	100.0	104.7	105.8	107.4	107.4	105.1	105.6	110.4	115.0	117.6	117.6	124.4	135.6	138.6	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	64.7	66.4	67.0	67.9	69.1	71.7	77.0	79.0	81.1	82.6	84.4	87.0	89.9	92.1	95.7	97.7	100.0	104.0	105.1	106.3	107.6	107.9	108.6	110.7	112.4	114.2	116.2	120.8	129.4	136.9	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	0.2	-1.1	1.1	6.4	5.1	4.7	2.9	3.4	4.7	4.7	4.1	3.4	2.8	3.1	-1.2	-0.1	1.5	2.2	2.3	2.8	3.8	3.7	3.8	3.5	3.5	2.4	-0.7	5.2	2.8	1.4	Real GDP
Population	0.9	5.0	1.0	1.1	1.3	1.5	0.6	0.6	1.8	2.0	1.5	1.1	1.2	0.9	0.9	1.0	1.1	0.8	0.5	0.8	1.7	2.1	2.3	2.1	1.8	1.6	2.2	0.4	0.1	2.5	Population
Price																															Price
Producer prices	4.6	0.8	2.1	2.5	1.3	0.8	7.6	6.0	0.1	-0.8	1.9	4.6	6.2	2.4	10.7	-1.5	2.7	4.7	1.0	1.5	0.1	-2.1	0.5	4.5	4.2						

Energy prices in New Zealand
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	NZD / US Dollar	1.39	1.26	1.23	1.22	1.20	1.43	1.43	1.41	1.44	1.52	1.54	1.41	1.57	1.63
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG															
Naphtha															
Motor Gasoline (regular)	NZD/L	1.77	2.06	2.09	2.10	2.08	1.88	1.76	1.89	2.10	2.10	1.92	2.21	2.68	2.63
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil	NZD/L	1.17	1.49	1.50	1.47	1.41	1.14	1.01	1.18	1.43	1.45	1.21	1.48	2.44	2.14
Fuel Oil	NZD/L	0.76	0.77	0.87	0.81	0.78	0.55	0.46	0.58	0.70	0.68	0.53	0.74		
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Households	NZD/GJ	33.17	36.48	36.95	37.86	36.81	36.90	38.46	35.60	39.93	40.15	39.38	40.02	41.98	46.38
Industry	NZD/GJ	8.03	7.60	7.82	8.02	7.44	7.04	6.12	6.99	7.37	6.80	7.14	8.67	11.10	9.98
Electricity															
Industrial	NZD/MWh	97.78	103.10	105.91	114.84	120.60	114.98	107.14	122.58	142.52	138.28	153.00	167.94	159.73	172.76
Commercial	NZD/MWh	153.61	168.19	173.56	171.11	169.16	166.86	166.03	167.08	168.55	171.14	173.41	182.23	193.32	209.41
Residential	NZD/MWh	247.14	260.57	268.92	278.28	286.13	281.12	287.10	289.58	290.81	291.10	293.62	302.18	314.68	330.55
Others															
Other Energy Products															

* NZD/L in 2018

Papua New Guinea

Energy balance table of Papua New Guinea

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production			22								479	3.8		3.5			77			585	84	Production
Import			21	80	3.4	5.6	44	26	0.5	1.1										102		Import
Export			- 22	- 13				-0.2		- 12	- 442									- 477		Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes			-0.1	2.5	0.1		2.0	-0.1		0.4										2.4		Stock changes
Total primary energy supply			21	70	3.5	5.6	46	26	0.6	- 11	37	3.8		3.5			77			212	84	Total primary energy supply
Transfers				-0.1						-0.1										-0.1		Transfers
Total transformation sector			- 22	-9.4	0.2		-0.8	- 24	0.3	15	- 24	-3.8		-3.5			-1.2		17	- 47	-8.4	Total transformation sector
Main activity producers				-0.4			-0.4				-5.8	-2.7					-0.4		5.2	-4.2	-3.1	Main activity producers
Autoproducers				- 30			-5.1	- 25			-5.5	-1.1		-3.5			-0.1		12	- 28	-4.7	Autoproducers
Gas processing				0.2	0.2						- 13									- 13		Gas processing
Petroleum refineries			- 22	21			4.8	0.9	0.3	15										-1.6		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-0.6			-0.6	-0.6	Other transformation
Losses & own use											- 12								-1.4	- 14		Losses & own use
Discrepancy			1.1	-2.6	0.8		-2.7			-0.7	0.1								-0.3	-1.7		Discrepancy
Total final consumption				58	4.5	5.6	42	1.6	0.9	2.9							76		15	149	76	Total final consumption
Total final energy consumption				58	4.5	5.6	42	1.6	0.9	2.9							76		15	149	76	Total final energy consumption
Industry sector				25			22	1.3	0.7	0.5							3.9		11	40	3.9	Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				25			22	1.3	0.7	0.5							3.9		11	40	3.9	Non-specified industry
Transport sector				26	4.5	5.6	16	0.3												26		Transport sector
Domestic air transport				5.6		5.6														5.6		Domestic air transport
Road				20	4.5		16													20		Road
Rail																						Rail
Inland waterways				0.3				0.3												0.3		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				6.9			4.3		0.2	2.4							72		4.5	83	72	Other sector
Residential				1.6					0.1	1.5							62		1.8	65	62	Residential
Commerce and public services				1.1					0.1	1.0							10.0		2.3	13	10.0	Commerce and public services
Agriculture				4.3			4.3												0.3	4.6		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy																						Non-energy
Electricity and heat output																						
Electricity generated (GWh)				2 712							878	1 044		96	7		33			4 769	1 179	Electricity generated (GWh)
Electricity plants				2 712							878	1 044		96	7		33			4 769	1 179	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

2022

Energy balance table of Papua New Guinea

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production			23								483	3.4		3.5			76			588	83	Production
Import			41	66	4.4	5.5	35	21	0.1											108		Import
Export			- 23	- 23						- 23	- 446									- 493		Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes																						Stock changes
Total primary energy supply			41	43	4.4	5.5	35	21	0.1	- 23	36	3.4		3.5			76			203	83	Total primary energy supply
Transfers				-1.3						-1.3										-1.3		Transfers
Total transformation sector			- 41	15		0.2	5.8	- 20	0.7	27	- 24	-3.4		-3.5			-1.2		16	- 43	-8.1	Total transformation sector
Main activity producers				-1.9			-1.9				-5.2	-2.4					-0.4		5.3	-4.6	-2.8	Main activity producers
Autoproducers				- 26			-4.3	- 21			-5.5	-1.1		-3.5			-0.1		11	- 25	-4.7	Autoproducers
Gas processing				6.6						6.6	- 13									-6.6		Gas processing
Petroleum refineries			- 41	35		0.2	12	1.7	0.7	21										-5.9		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-0.6			-0.6	-0.6	Other transformation
Losses & own use											- 13								-1.3	- 14		Losses & own use
Discrepancy				-0.1						-0.1	0.1											Discrepancy
Total final consumption				56	4.4	5.6	41	1.6	0.8	2.8							74		15	145	74	Total final consumption
Total final energy consumption				56	4.4	5.6	41	1.6	0.8	2.8							74		15	145	74	Total final energy consumption
Industry sector				24			22	1.3	0.6	0.4							3.9		10	38	3.9	Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				24			22	1.3	0.6	0.4							3.9		10	38	3.9	Non-specified industry
Transport sector				25	4.4	5.6	15	0.3												25		Transport sector
Domestic air transport				5.6		5.6														5.6		Domestic air transport
Road				19	4.4		15													19		Road
Rail																						Rail
Inland waterways				0.3				0.3												0.3		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				6.9			4.3		0.2	2.4							71		4.4	82	71	Other sector
Residential				1.6					0.1	1.4							61		1.7	64	61	Residential
Commerce and public services				1.0					0.1	1.0							10.0		2.3	13	10.0	Commerce and public services
Agriculture				4.3			4.3												0.3	4.6		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy																						Non-energy
Electricity and heat output																						
Electricity generated (GWh)				2 461							880	958		96	6		33			4 433	1 093	Electricity generated (GWh)
Electricity plants				2 461							880	958		96	6		33			4 433	1 093	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Papua New Guinea

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
Total																											Total
Primary energy supply	36	36	117	126	131	137	136	140	142	151	157	162	166	163	166	168	177	178	183	188	183	186	194	194	203	212	Primary energy supply
Production	193	217	221	198	178	175	161	178	196	166	175	174	130	130	135	141	333	512	568	590	535	559	581	575	588	585	Production
Import	33	28	49	57	60	65	56	78	89	73	77	71	86	83	88	92	97	86	100	110	110	109	104	103	108	102	Import
Export	-189	-208	-154	-129	-108	-102	-91	-116	-130	-69	-91	-85	-47	-49	-57	-67	-248	-419	-489	-510	-459	-483	-495	-485	-493	-477	Export
Final energy consumption	23	30	98	103	106	108	110	112	114	119	120	122	125	127	129	130	134	135	137	139	139	142	141	143	145	149	Final energy consumption
Industry	8.0	13	20	24	25	26	26	27	28	29	30	30	32	33	33	34	36	36	37	38	38	39	38	38	38	40	Industry
Transport	8.7	11	12	13	14	14	14	15	16	17	17	18	19	19	20	20	22	23	24	25	25	26	24	24	25	26	Transport
Residential	1.2	1.1	50	51	52	52	53	54	54	55	56	56	57	58	58	58	58	59	59	59	59	59	61	63	64	65	Residential
Commerce & public services	1.2	2.1	11	11	11	11	11	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	Commerce & public services
Others	3.5	3.2	4.3	4.1	4.1	4.4	4.4	4.4	4.4	4.9	4.7	4.9	4.8	5.0	5.3	5.6	4.6	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.6	4.6	Others
Coal and peat Primary energy supply Production Import Export																											Coal and peat Primary energy supply Production Import Export
Transformation sector Power generation																											Transformation sector Power generation
Final energy consumption Industry Transport Residential Commerce & public services Others																											Final energy consumption Industry Transport Residential Commerce & public services Others
Coal and peat products Primary energy supply Production Import Export																											Coal and peat products Primary energy supply Production Import Export
Transformation sector Power generation																											Transformation sector Power generation
Final energy consumption Industry Transport Residential Commerce & public services Others																											Final energy consumption Industry Transport Residential Commerce & public services Others
Crude oil & NGL Primary energy supply Production Import Export		0.4					19	42	44	34	35	38	40	40	44	56	44	26	60	59	53	55	62	52	41	21	Crude oil & NGL Primary energy supply Production Import Export
	188	209	154	129	108	102	89	102	119	82	87	84	41	40	46	52	47	26	57	58	55	17	28	28	23	22	
							5.4	38	42	33	36	32	41	41	46	53	48	27	58	59	56	55	59	52	41	21	
	-188	-208	-154	-129	-108	-102	-85	-98	-104	-62	-86																

Major economic indicators of Papua New Guinea

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	3.86	3.99	4.14	4.29	4.45	4.62	5.51	5.70	5.89	6.09	6.29	6.50	6.71	6.92	7.14	7.36	7.58	7.81	8.03	8.25	8.46	8.68	8.90	9.11	9.33	9.54	9.75	9.95	10.14	10.39	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	7	8	9	11	12	11	11	11	11	11	12	12	13	14	14	15	16	17	17	18	20	22	23	24	24	25	24	24	25	26	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	11	12	14	17	18	17	17	17	17	17	18	19	20	21	21	23	25	25	26	27	31	33	35	36	36	38	36	37	42	44	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	3	4	4	5	6	5	4	3	3	3	4	4	5	8	10	12	12	14	18	21	21	23	22	21	23	24	25	24	26	31	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	1 908	2 024	2 223	2 533	2 587	2 412	2 000	1 931	1 864	1 843	1 832	1 887	1 927	2 013	1 946	2 016	2 155	2 116	2 154	2 177	2 408	2 502	2 575	2 603	2 536	2 590	2 455	2 408	2 463	2 515	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	2 907	3 084	3 388	3 860	3 942	3 676	3 048	2 943	2 841	2 808	2 792	2 875	2 936	3 068	2 966	3 073	3 284	3 225	3 283	3 318	3 670	3 813	3 924	3 967	3 865	3 948	3 742	3 670	4 119	4 206	GDP, PPP (constant 2021 USD)
Nominal (current USD)	833	949	1 058	1 159	1 236	1 004	639	541	509	581	624	749	1 245	1 379	1 635	1 579	1 879	2 304	2 653	2 578	2 742	2 502	2 333	2 495	2 584	2 594	2 446	2 645	3 116	2 966	Nominal (current USD)
Nominal GDP & its components (billion of current PGK) ¹¹																															Nominal GDP & its components (billion of current PGK) ¹¹
Gross domestic product	3.1	3.6	4.2	4.9	5.5	6.2	9.7	10	12	13	13	15	26	28	32	32	39	43	44	48	57	60	65	73	79	84	83	92	111	111	Gross domestic product
Household final consumption expenditure	1.8	2.1	2.1	2.0	2.6	2.7	4.3	5.0	7.1	6.2	6.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Household final consumption expenditure
General government final consumption expenditure	0.8	0.9	1.0	1.2	1.0	1.1	1.6	1.7	1.8	1.9	1.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	General government final consumption expenditure
Gross fixed capital formation	0.8	1.0	0.9	0.9	1.0	1.2	2.0	2.2	2.3	2.3	2.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Gross fixed capital formation
Stock change				0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	1.2	1.5	2.0	2.6	3.0	3.8	6.4	6.8	7.1	8.7	9.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Exports of goods and services
Imports of goods and services	1.5	1.9	1.9	1.8	2.2	2.7	4.8	5.4	6.8	6.8	7.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Imports of goods and services
Real GDP & its components (billion of 2019 PGK) ¹¹																															Real GDP & its components (billion of 2019 PGK) ¹¹
Gross Domestic Product	20	21	24	29	31	30	29	29	29	30	31	33	34	37	37	39	43	44	46	48	54	58	61	63	63	66	64	64	66	69	Gross Domestic Product
Household final consumption expenditure	3.1	3.4	3.7	3.7	4.3	3.6	3.3	2.8	3.7	2.9	3.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Household final consumption expenditure
General government final consumption expenditure	1.1	1.1	1.3	1.5	1.2	1.1	1.4	1.6	1.6	1.5	1.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	General government final consumption expenditure
Gross fixed capital formation	1.3	1.6	1.5	1.4	1.5	1.5	1.8	1.9	1.8	1.7	1.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Gross fixed capital formation
Stock change			0.1	-0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	2.5	2.9	3.8	4.8	5.3	5.1	5.2	5.8	5.7	6.5	6.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Exports of goods and services
Imports of goods and services	2.9	3.5	3.4	2.9	3.2	3.3	4.1	4.5	5.3	4.9	5.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	10.3	9.2	8.6	8.8	8.8	9.1	10.4	9.9	9.5	9.8	10.0	N.A.	21.9	20.1	20.5	20.3	18.9	18.9	19.1	19.3	17.5	16.0	15.6	15.4	16.2	N.A.	N.A.	N.A.	N.A.	N.A.	Agriculture, Fishery and Forestry
Industry	6.0	7.1	8.5	9.1	8.7	8.2	8.3	8.3	8.3	8.5	8.4	N.A.	30.9	30.0	29.1	31.4	31.9	28.9	27.0	26.5	32.5	38.6	41.0	41.4	38.4	N.A.	N.A.	N.A.	N.A.	N.A.	Industry
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	58.9	60.3	54.9	55.5	51.5	51.2	52.1	50.5	42.6	39.5	37.4	34.0	32.6	N.A.	N.A.	N.A.	N.A.	N.A.	Services, etc.
Industrial production index (2010=100) ¹²	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	1.2	1.5	1.9	2.6	2.6	2.7	2.1	1.8	1.6	2.2	2.6	3.3	4.2	4.7	5.7	4.4	5.7	6.9	6.3	6.0	8.8	8.5	8.2	10.0	10.5	11.4	9.3	10.9	14.3	12.8	Exports, f.o.b.
Imports, c.i.f.	1.2	1.6	1.5	1.3	1.5	1.5	1.2	1.1	1.1	1.4	1.7	1.7	2.0	2.6	3.1	2.9	3.5	4.3	4.8	5.4	4.0	2.6	2.1	3.1	3.5	3.9	3.3	3.4	5.3	5.4	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	0.1	0.1	0.6	1.5	1.3	1.4	1.1	0.9	0.6	1.0	1.2	1.8	2.2	2.1	2.7	1.5	2.2	2.7	1.6	0.5	5.2	5.1	4.9	6.2	6.0	6.7	5.5	7.2	0.0	0.0	Trade balance
Current account	-0.1	-0.5	-0.2	0.5	0.4	0.5	0.3	0.3	-0.3	-0.2	-0.1	0.3	0.1	-0.2	0.5	-0.9	-1.1	-0.7	-2.8	-4.0	2.4	1.9	2.8	3.6	3.3	3.6	3.4	4.5	0.0	0.0	Current account
Overall balance	0.1	-0.4	-0.3	-0.2	-0.2	0.0	0.1	0.1	-0.3	-0.5	-0.2	-0.3	0.2	0.1	-0.7	0.2	0.0	-0.3	-1.1	-4.3	-1.8	-0.6	0.4	-0.4	-0.2	-0.6	1.9	-1.2	0.0	0.0	Overall balance
Foreign exchange rate (PGK/USD) ¹¹	0.96	0.95	0.96	0.98	1.01	1.28	2.78	3.39	3.90	3.56	3.22	3.10	3.06	2.97	2.70	2.76	2.72	2.37	2.08	2.24	2.46	2.77	3.13	3.19	3.29	3.39	3.46	3.51	3.52	3.59	Foreign exchange rate (PGK/USD) ¹¹
PPP conversion factor, GDP (PGK/USD) ¹¹	0.73	0.75	0.76	0.72	0.76	0.86	1.26	1.31	1.45	1.50	1.43	1.56	1.66	1.67	1.77	1.67	1.82	1.86	1.81	1.85	1.91	1.87	1.90	2.01	2.15	2.14	2.14	2.29	2.49	2.28	PPP conversion factor, GDP (PGK/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2013=100) ¹³	15.7	16.8	17.3	16.8	18.1	20.9	33.2	35.5	39.9	42.1	41.3	46.3	74.3	76.4	85.3	81.2	89.2	97.1	96.5	100.0	105.4	104.1	106.8	115.0	126.2	127.6	129.7	144.9	167.5	159.2	GDP Deflator (2013=100) ¹³
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2010=100) ¹²	21.4	22.9	23.9	25.0	25.8	30.2	52.9	57.8	64.6	74.2	75.8	77.1	78.9	79.7	88.2	94.3	100.0	104.4	109.2	114.6	120.6	127.8	136.3	143.7	150.0	155.9	163.5	170.8	179.8	0.0	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	-3.0	9.5	13.8	18.2	5.9	-3.3	-2.5	-0.1	-0.2	2.2	2.7	6.3	5.4	7.8	-0.3	6.8	10.1	1.1	4.7	3.8	13.5	6.6	5.5	3.5	-0.3	4.5	-3.2	0.1	5.2	3.8	Real GDP
Population	2.7	3.3	3.6	3.7	3.7	3.7	3.5	3.5	3.4	3.4	3.3	3.3	3.2	3.2	3.1	3.1	3.0	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.0	1.9	1.8	Population
Price																															Price
Wholesale prices	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Wholesale prices
Consumer prices	7.0	7.0	4.3	5.0	2.9	17.3	15.6	9.3	11.8	14.7	2.2	1.8	2.4	0.9	10.8	6.9	6.0	4.4	4.5	5.0	5.2	6.0	6.7	5.4	4.4	3.9	4.9	4.5	5.3	-100.0	Consumer prices

Source ¹¹ : World Development Indicators , World Bank

¹² : International Financial Statistics , International Monetary Fund

¹³ : Calculated from ¹¹ and ¹² by ESTO

Note : N.A. means "not available"

: PGK means Kina, USD means United States Dollar

: PPP means Purchasing Power Parity

: Total population is based on the *de facto* definition of population, which counts all residents regardless of legal status or citizenship.

The values shown are midyear estimates. (from WB)

Peru

Energy balance table of Peru

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	6.1		215								592	105			5.6	8.5	150			1 081	269	Production
Import	7.8	2.0	237	263	50	13	171	2.2	20	7.4							18			528	18	Import
Export	- 40		- 31	- 124	- 56			- 67		-0.9	- 203								-0.1	- 399		Export
International marine bunkers				-5.3			-0.1	-5.3												-5.3		International marine bunkers
International aviation bunkers				- 24		- 24														- 24		International aviation bunkers
Stock changes	51		-0.6	1.8	3.3		1.6	-3.2		0.1							-0.3			52	-0.3	Stock changes
Total primary energy supply	25	2.0	420	112	-3.3	- 11	173	- 73	20	6.6	389	105			5.6	8.5	168			1 234	287	Total primary energy supply
Transfers			- 25	30	11	-0.1	- 19	- 16	54	0.9										4.7		Transfers
Total transformation sector	-3.8		- 385	321	74	24	122	83	4.1	14	- 225	- 105			-3.9	-8.5	- 47		224	- 233	- 165	Total transformation sector
Main activity producers				- 12			-8.6	-3.7			- 214	- 103			-3.6	-8.5	- 32		217	- 156	- 147	Main activity producers
Autoproducers	-3.8			-0.5			-0.5				- 11	-2.1			-0.3		-7.6		7.3	- 18	- 10	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 385	334	74	24	131	87	4.1	14										- 51		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-7.8			-7.8	-7.8	Other transformation
Losses & own use				-6.8						-6.8	- 51								- 28	- 86		Losses & own use
Discrepancy			-9.2	30	10	-0.4	- 21	31	18	-7.7	-1.3						- 11		-0.1	8.2	- 11	Discrepancy
Total final consumption	21	2.0		486	92	13	255	25	95	6.6	112				1.6		110		196	928	111	Total final consumption
Total final energy consumption	21	2.0		480	92	13	255	25	95		112				1.6		110		196	922	111	Total final energy consumption
Industry sector	21	2.0		65			25	24	16		55						13		114	270	13	Industry sector
Mining and quarrying				18			15	0.3	2.5		0.7						0.8		69	88	0.8	Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	21	2.0		47			9.9	24	13		54						12		45	181	12	Non-specified industry
Transport sector				361	92	13	219	0.4	38		36						16		0.3	413	16	Transport sector
Domestic air transport				13		13														13		Domestic air transport
Road				348	92		219		38		36						16			399	16	Road
Rail																			0.3	0.3		Rail
Inland waterways																						Inland waterways
Non-specified transport				0.4				0.4												0.4		Non-specified transport
Other sector				53			11		42		22				1.6		81		82	239	83	Other sector
Residential				38					38		12				1.0		76		39	165	77	Residential
Commerce and public services				11			7.1		3.8		9.2				0.6		5.2		36	62	5.8	Commerce and public services
Agriculture				2.2			2.0		0.1								0.2		5.1	7.5	0.2	Agriculture
Fishery				2.4			2.3				0.8						0.1		0.7	4.0	0.1	Fishery
Non-specified																						Non-specified
Non-energy				6.6						6.6										6.6		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	233			1 580							26 588	29 088			1 096	2 355	1 268		62 209	33 808		Electricity generated (GWh)
Electricity plants	233			1 580							26 588	29 088			1 096	2 355	1 268		62 209	33 808		Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Peru

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	5.2		219								555	107			4.9	7.0	163			1 061	282	Production
Import	13	2.2	142	298	57	16	187	0.6	27	10							18		0.1	473	18	Import
Export	-2.3		- 35	- 96	- 62		-7.5	- 26		-1.0	- 192						-0.4			- 326	-0.4	Export
International marine bunkers				- 11			-0.2	- 10												- 11		International marine bunkers
International aviation bunkers				- 20		- 20														- 20		International aviation bunkers
Stock changes	12	-0.6	-2.1	7.7		1.2	2.3	4.3		-0.2	-0.7						1.0			18	1.0	Stock changes
Total primary energy supply	29	1.6	324	179	-5.3	-2.7	182	- 31	27	8.9	362	107			4.9	7.0	181		0.1	1 195	300	Total primary energy supply
Transfers			- 62	54	24		- 17	-8.8	55	1.0										-8.5		Transfers
Total transformation sector	-4.3		- 263	228	60	19	80	54	2.3	13	- 208	- 107			-3.3	-7.0	- 48		215	- 197	- 166	Total transformation sector
Main activity producers	-1.5			-6.9			-3.5	-3.4			- 198	- 105			-3.0	-7.0	- 34		209	- 147	- 149	Main activity producers
Autoproducers	-2.8			-0.5			-0.5				- 11	-2.1			-0.3		-6.1		6.6	- 16	-8.5	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 263	236	60	19	84	58	2.3	13										- 27		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-7.8			-7.8	-7.8	Other transformation
Losses & own use				-4.8						-4.8	- 45								- 27	- 77		Losses & own use
Discrepancy			1.1	18	15	-4.3	3.5	5.7	8.8	-10.0							-0.6		-0.2	19	-0.6	Discrepancy
Total final consumption	24	1.6		475	93	12	249	20	93	8.2	109				1.6		132		188	931	134	Total final consumption
Total final energy consumption	24	1.6		467	93	12	249	20	93		109				1.6		132		188	923	134	Total final energy consumption
Industry sector	24	1.6		61	0.7		24	20	17		58						15		110	271	15	Industry sector
Mining and quarrying				17	0.7		14	0.3	1.9		1.4						0.8		64	83	0.8	Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	24	1.6		44			10	20	15		57						15		46	187	15	Non-specified industry
Transport sector				352	92	12	214	0.4	35		31						15		0.3	399	15	Transport sector
Domestic air transport				12		12														12		Domestic air transport
Road				340	92		214		35		31						15			387	15	Road
Rail																			0.3	0.3		Rail
Inland waterways																						Inland waterways
Non-specified transport				0.4				0.4												0.4		Non-specified transport
Other sector				53	0.3		11		42		19				1.6		101		77	253	103	Other sector
Residential				38					38		10				1.0		96		38	183	97	Residential
Commerce and public services				11			7.1		3.8		9.1				0.6		5.2		33	59	5.8	Commerce and public services
Agriculture				2.3	0.1		2.0		0.2								0.2		5.1	7.7	0.2	Agriculture
Fishery				2.2	0.2		1.9				0.1						0.1		0.7	3.1	0.1	Fishery
Non-specified																						Non-specified
Non-energy				8.2						8.2										8.2		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	117			1 130							25 445	29 744			915	1 932	508			59 791	33 099	Electricity generated (GWh)
Electricity plants	117			1 130							25 445	29 744			915	1 932	508			59 791	33 099	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Peru

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																										Total	
Primary energy supply	418	477	519	501	507	497	555	580	572	605	674	713	753	931	979	955	1 014	1 072	1 081	1 095	1 096	1 137	961	1 130	1 195	1 234	Primary energy supply
Production	446	421	385	385	390	390	396	454	485	519	546	653	820	977	1 023	1 058	1 098	1 043	1 081	1 032	1 039	1 083	997	983	1 061	1 081	Production
Import	70	182	226	228	243	279	282	284	286	324	311	283	309	346	328	344	307	333	448	519	492	463	320	438	473	528	Import
Export	-95	-107	-88	-119	-122	-144	-125	-159	-146	-173	-169	-180	-305	-414	-439	-458	-390	-350	-464	-502	-442	-412	-342	-309	-326	-399	Export
Final energy consumption	363	404	452	434	442	445	480	464	482	506	561	617	643	672	681	731	729	776	804	831	832	858	740	891	923	922	Final energy consumption
Industry	81	92	122	116	125	127	137	141	138	161	166	166	170	182	177	201	201	212	209	230	240	251	207	244	271	270	Industry
Transport	105	128	142	134	125	129	159	146	163	158	210	230	253	272	286	307	307	335	369	378	360	378	296	385	399	413	Transport
Residential	151	142	149	151	152	150	146	137	142	142	135	167	165	157	154	158	160	158	155	155	169	163	176	188	183	165	Residential
Commerce & public services	14	12	11	10	15	14	12	19	17	27	31	35	37	41	43	46	48	52	54	58	54	57	51	57	59	62	Commerce & public services
Others	14	30	27	23	25	24	28	21	21	18	18	20	17	20	21	19	14	19	17	9.3	9.5	10	10	16	11	12	Others
Coal and peat																											Coal and peat
Primary energy supply	4.4	11	21	18	28	30	31	31	25	35	32	33	32	34	35	36	33	33	34	29	26	28	20	27	29	25	Primary energy supply
Production	2.8	1.5	0.5	0.6	0.6	0.5	0.7	1.2	3.1	3.3	3.9	4.3	2.7	4.9	6.2	5.8	6.2	7.1	7.3	8.3	5.8	5.0	3.3	3.9	5.2	6.1	Production
Import	1.3	7.4	19	14	25	23	27	28	21	28	20	22	28	18	19	30	15	12	18	14	10	11	8.0	8.8	13	7.8	Import
Export													-3.1	-5.1	-3.7	-3.7	-7.4	-7.4	-4.8	-10	-19	-18	-0.6	-2.4	-2.3	-40	Export
Transformation sector	-1.1	-1.5	-5.4	-5.1	-11	-10	-12	-10	-10	-10	-11	-11	-12	-12	-13	-14	-8.4	-6.9	-13	-9.4	-4.9	-5.9	-5.3	-4.8	-4.3	-3.8	Transformation sector
Power generation			-4.2	-3.7	-9.4	-9.2	-11	-10	-10	-10	-11	-11	-12	-12	-13	-14	-8.4	-6.9	-13	-9.4	-4.9	-5.9	-5.3	-4.8	-4.3	-3.8	Power generation
Final energy consumption	2.7	10	16	14	18	20	20	22	15	25	22	23	26	24	24	23	27	29	23	20	21	22	14	22	24	21	Final energy consumption
Industry	2.4	9.5	16	14	18	20	20	22	15	24	22	23	25	24	24	23	26	29	23	20	21	22	14	22	24	21	Industry
Transport																											Transport
Residential	0.3	0.3																									Residential
Commerce & public services																		0.1									Commerce & public services
Others			0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2			0.7	0.1	0.1	0.1	0.1	0.1									Others
Coal and peat products																											Coal and peat products
Primary energy supply	1.7	4.2	5.6	5.7	5.0	5.2	6.8	7.1	7.9	8.8	7.2	1.3	1.8			1.0	2.5	1.1	2.5	2.1	2.1	1.6	1.7	1.5	1.6	2.0	Primary energy supply
Production																											Production
Import	1.7	6.7	5.5	5.5	5.9	5.3	7.1	6.3	8.6	8.2	7.3	0.9	1.7	0.4		1.0	0.4	1.0	3.4	1.7	2.1	2.8	0.9	1.9	2.2	2.0	Import
Export															-1.1	-1.0	-1.0										Export
Transformation sector	-0.5	-2.4	-4.7	-4.6	-3.8	-4.1	-5.8	-5.9	-6.7	-7.5	-5.7																Transformation sector
Power generation																											Power generation
Final energy consumption	1.1	1.3	1.0	1.2	1.2	1.1	1.0	1.3	1.3	1.3	1.6	1.3	1.8			1.0	2.5	1.1	2.5	2.1	2.1	1.6	1.7	1.5	1.6	2.0	Final energy consumption
Industry	1.1	1.3	1.0	1.2	1.2	1.1	1.0	1.3	1.3	1.3	1.6	1.3	1.8			1.0	2.5	1.1	2.5	2.1	2.1	1.6	1.7	1.5	1.6	2.0	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	302	293	312	331	322	310	329	401	388	402	401	450	463	450	455	453	455	445	451	509	486	468	302	343	324	420	Primary energy supply
Production	274	258	210	205	204	201	192	222	232	229	239	278	298	289	289	308	314	268	232	250	252	263	232	222	219	215	Production
Import	37	101	129	157	156	176	176	203	214	233	205	210	201	199	192	179	176	181	223	265	238	222	86	144	142	237	Import
Export	-63	-59	-29	-40	-45	-61	-35	-27	-50	-58	-38	-40	-40	-34	-33	-31	-33	-17	-4.9	-3.3	-14	-12	-24	-25	-35	-31	Export
Transformation sector	-311	-312	-324	-340	-337	-337	-343	-345	-349	-365	-366	-401	-432	-414	-399	-379	-388	-371	-382								

Major economic indicators of Peru

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	22.11	22.58	23.05	23.51	23.98	24.45	26.65	27.01	27.33	27.62	27.89	28.15	28.38	28.60	28.81	29.01	29.23	29.48	29.75	30.04	30.35	30.71	31.13	31.61	32.20	32.82	33.30	33.72	34.05	33.85	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	60	61	61	64	72	77	87	88	93	97	101	108	116	126	137	139	150	160	170	180	184	190	197	202	210	215	192	217	223	222	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	116	118	118	124	139	150	170	171	180	188	197	210	225	244	267	270	292	311	330	349	357	369	384	393	409	418	373	423	521	519	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	26	34	36	35	45	53	52	52	55	59	67	76	89	102	121	121	148	172	193	201	201	190	192	211	223	228	202	224	246	267	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	2 695	2 697	2 629	2 712	2 986	3 146	3 279	3 256	3 393	3 497	3 635	3 829	4 083	4 397	4 764	4 783	5 142	5 421	5 702	5 977	6 056	6 180	6 338	6 400	6 530	6 550	5 754	6 447	6 549	6 568	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	5 240	5 244	5 111	5 272	5 805	6 116	6 376	6 329	6 597	6 799	7 067	7 444	7 938	8 549	9 262	9 298	9 997	10 540	11 085	11 621	11 774	12 015	12 321	12 443	12 696	12 735	11 187	12 534	15 287	15 328	GDP, PPP (constant 2021 USD)
Nominal (current USD)	1 195	1 521	1 561	1 481	1 871	2 181	1 941	1 926	2 004	2 126	2 394	2 702	3 123	3 572	4 185	4 165	5 047	5 827	6 476	6 697	6 615	6 180	6 164	6 676	6 912	6 956	6 064	6 635	7 239	7 888	Nominal (current USD)
Nominal GDP & its components (billion of current PEN) ¹¹																															Nominal GDP & its components (billion of current PEN) ¹¹
Gross domestic product	5.5	27	45	69	99	120	181	183	193	204	228	251	290	320	353	364	417	473	508	544	570	604	648	688	732	762	706	868	945	999	Gross domestic product
Household final consumption expenditure	4.1	21	35	53	71	86	128	131	138	144	155	163	175	192	220	232	257	286	316	343	368	395	421	441	467	494	452	532	604	637	Household final consumption expenditure
General government final consumption expenditure	0.4	2.0	3.5	5.5	8.7	12	21	21	22	24	26	29	32	33	37	42	44	49	55	63	71	78	85	91	96	101	113	120	126	136	General government final consumption expenditure
Gross fixed capital formation	0.9	4.4	7.4	13	21	29	36	33	32	35	38	43	52	64	83	81	98	110	127	138	140	140	139	142	153	160	140	203	220	212	Gross fixed capital formation
Stock change		0.2	0.6	0.5	1.0	0.9	-0.1	0.4	2.4	1.2	0.2	0.6	5.4	6.5	9.7	-7.9	1.0	4.0	-2.2	1.5	0.7	7.4	3.7	0.7	2.8	-1.1	- 11	- 13	-9.8	- 25	Stock change
Exports of goods and services	0.9	3.3	5.6	8.6	13	15	30	30	33	39	52	67	89	101	105	96	116	144	139	135	129	129	146	170	184	183	160	256	273	271	Exports of goods and services
Imports of goods and services	0.8	3.9	7.0	11	16	22	34	34	35	38	43	51	62	77	101	79	99	121	128	136	138	144	148	157	171	175	149	230	268	236	Imports of goods and services
Real GDP & its components (billion of 2019 PEN) ¹¹																															Real GDP & its components (billion of 2019 PEN) ¹¹
Gross Domestic Product	151	155	154	162	182	196	222	224	236	246	258	274	295	320	349	353	382	406	431	456	467	483	502	514	535	547	487	553	567	565	Gross Domestic Product
Household final consumption expenditure	106	110	109	114	124	136	143	145	152	155	161	167	177	192	209	216	236	252	271	287	299	311	323	331	344	355	320	360	373	373	Household final consumption expenditure
General government final consumption expenditure	16	17	17	18	19	21	25	25	25	26	27	30	32	33	35	39	41	44	47	51	54	59	62	64	65	68	74	77	77	80	General government final consumption expenditure
Gross fixed capital formation	21	21	22	24	33	40	38	35	35	37	39	44	52	64	82	79	96	106	121	128	125	116	111	113	118	121	102	136	136	129	Gross fixed capital formation
Stock change	1.1	1.7	1.6	1.9	1.6	1.5	-0.1	0.4	1.6	1.5	-1.1	-3.1	2.7	6.5	11	-5.2	3.9	6.6	1.5	5.5	6.6	11	8.7	7.3	8.2	5.3	-4.8	-6.4	-1.9	-8.1	Stock change
Exports of goods and services	27	28	30	31	37	39	58	62	67	71	82	93	94	101	109	105	108	114	118	117	113	118	131	143	148	148	124	148	149	154	Exports of goods and services
Imports of goods and services	20	23	25	26	33	42	42	43	45	46	50	57	64	77	97	81	103	117	128	132	131	132	134	144	149	151	128	161	167	163	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	6.9	6.8	6.4	6.8	6.9	6.7	7.7	7.5	7.5	7.3	7.1	6.9	7.0	6.7	6.6	6.6	6.1	6.2	6.0	5.8	5.6	5.6	5.5	5.5	5.8	5.8	6.5	6.1	6.1	5.9	Agriculture, Fishery and Forestry
Industry	34.6	35.2	34.9	35.6	35.4	35.0	35.2	36.1	37.0	37.0	37.5	38.2	37.6	37.7	37.8	36.8	36.6	36.0	35.4	35.4	34.4	33.9	34.0	33.8	33.5	32.7	31.9	33.0	32.7	32.3	Industry
Services, etc.	N.A.	N.A.	N.A.	N.A.	49.3	49.6	48.7	48.1	47.3	47.6	47.1	46.5	47.0	47.3	47.0	48.1	48.2	48.8	49.5	49.5	50.6	51.3	51.4	51.6	51.7	52.5	52.5	51.7	52.1	52.8	Services, etc.
Manufacturing Production Index (2010=100) ¹²	41.2	45.6	44.1	45.6	53.1	56.1	61.6	61.0	63.6	65.6	70.5	75.1	80.6	89.1	96.8	90.3	100.0	108.6	110.1	115.6	111.5	109.8	108.3	108.0	N.A.	N.A.	N.A.	N.A.	N.A.	0.0	Manufacturing Production Index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	3.3	3.4	3.6	3.4	4.4	5.5	7.0	7.0	7.7	9.1	12.8	17.4	23.9	28.2	30.8	27.3	36.0	46.8	45.9	42.6	38.6	33.5	36.5	43.5	48.0	46.4	39.6	59.6	62.9	64.7	Exports, f.o.b.
Imports, c.i.f.	2.6	2.8	4.0	4.2	5.6	7.6	7.4	7.3	7.5	8.4	10.1	12.5	15.3	20.4	30.0	21.8	30.0	37.7	42.5	43.7	42.3	37.9	36.3	39.9	43.3	42.3	36.1	50.9	61.0	52.4	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	0.4	-0.2	-0.2	-0.6	-0.9	-1.9	-0.1	0.1	0.6	1.1	3.2	5.6	9.4	8.8	2.9	6.2	7.4	9.9	6.4	0.5	-1.5	-2.9	2.0	6.7	7.2	6.9	8.1	15.0	10.3	17.1	Trade balance
Current account	-1.4	-1.5	-1.9	-2.5	-2.7	-4.6	-1.5	-1.2	-1.1	-0.9	0.0	1.1	2.9	1.5	-5.3	-0.7	-3.6	-3.4	-5.4	-9.6	-8.6	-8.8	-4.2	-1.7	-2.6	-1.3	2.2	-5.1	-9.9	0.9	Current account
Overall balance	-2.0	-1.4	-1.3	-1.5	1.2	-0.8	-0.5	0.4	0.9	-0.1	2.3	1.2	3.7	10.6	3.7	3.4	9.3	6.0	14.1	0.9	-2.2	1.7	1.3	0.8	-0.6	6.0	8.9	10.4	-0.4	0.0	Overall balance
Foreign exchange rate (PEN/USD) ¹¹	0.19	0.77	1.25	1.99	2.20	2.25	3.49	3.51	3.52	3.48	3.41	3.30	3.27	3.13	2.92	3.01	2.83	2.75	2.64	2.70	2.84	3.18	3.38	3.26	3.29	3.34	3.49	3.88	3.84	3.74	Foreign exchange rate (PEN/USD) ¹¹
PPP conversion factor, GDP (PEN/USD) ¹¹	0.07	0.34	0.56	0.81	1.00	1.11	1.35	1.33	1.31	1.31	1.36	1.36	1.42	1.40	1.39	1.41	1.48	1.54	1.60	1.62	1.65	1.71	1.74	1.75	1.75	1.75	1.79	1.86	1.70	1.74	PPP conversion factor, GDP (PEN/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2007=100) ¹³	3.6	17.3	29.2	42.7	54.2	61.5	81.3	81.6	81.7	83.2	88.4	91.5	98.5	100.0	101.1	103.2	109.1	116.4	117.8	119.1	122.0	125.3	129.1	133.8	136.8	139.4	144.9	157.1	166.8	176.9	GDP Deflator (2007=100) ¹³
Wholesale Price Index (2010=100) ¹²	4.7	19.0	29.8	44.0	51.8	57.3	79.0	80.1	79.3	80.6	84.8	86.8	89.6	91.8	100.0	98.2	100.0	106.3	108.2	108.6	110.6	112.6	114.5	115.7	117.6	118.9	N.A.	N.A.	N.A.	N.A.	Wholesale Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	3.1	16.0	27.8	41.3	51.1	56.8	79.2	80.7	80.9	82.7	85.7	87.1	88.9	90.5	95.7	98.5	100.0	103.4	107.1	110.1	113.8	117.7	121.9	125.5	127.4	130.3	132.9	138.6	150.1	159.8	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	-5.0	2.2	-0.5	5.2	12.3	7.4	2.7	0.6	5.5	4.2	5.0	6.3	7.5	8.5	9.1	1.1	8.3	6.3	6.1	5.9	2.4	3.3	4.0	2.5	4.0	2.2	-10.9	13.4	2.7	-0.4	Real GDP
Population	2.2	2.1	2.1	2.0	2.0	1.9	1.5	1.4	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.2	1.4	1.5	1.9	1.9	1.5	1.2	1.0	1.1	Population
Price																															Price
Producer prices	6 737.4	306.3	57.2	47.6	17.9	10.5	4.3	1.4	-1.0																						

The Philippines

Energy balance table of the Philippines

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production	337		11								79	37		386	9.2	4.7	458	0.1		1 322	895
Import	785		267	672	172	45	288	43	72	53	27						8.0			1 760	8.0
Export	- 166		- 11	- 30	-0.5		-4.0	-1.7		- 24										- 207	
International marine bunkers				-2.2			-1.3	-0.9												-2.2	
International aviation bunkers				- 68		- 68														- 68	
Stock changes	0.4		1.3	- 19	-3.2	-1.5	-7.7	-1.7	0.2	-5.4							1.1			- 16	1.1
Total primary energy supply	957		269	552	168	- 25	275	38	73	23	106	37		386	9.2	4.7	467	0.1		2 788	904
Transfers																					
Total transformation sector	- 870		- 287	242	68	40	92	- 11	9.9	43	- 103	- 37		- 386	-9.2	-4.7	- 137	-0.1	425	-1 168	- 574
Main activity producers	- 870			- 29			- 16	- 13			- 103	- 37		- 386	-9.2	-4.7	- 23	-0.1	425	-1 038	- 460
Autoproducers																					
Gas processing																					
Petroleum refineries			- 287	271	68	40	108	1.9	9.9	43										- 16	
Coal transformation																					
Other transformation																	- 114			- 114	- 114
Losses & own use			- 19								-2.3								- 80	- 101	
Discrepancy			37	-6.6	-1.6	0.5	1.5	0.8	1.4	-9.2										30	
Total final consumption	87			788	235	15	369	28	84	57							330		345	1 549	330
Total final energy consumption	83			733	235	15	369	28	84	2.0							330		345	1 491	330
Industry sector	83			67			45	12	8.3	0.6							40		106	296	40
Mining and quarrying				19			17	2.1									0.3		4.7	24	0.3
Construction				15			15	0.1	0.2								0.3		12	27	0.3
Iron and steel	9.4			5.1			0.6	3.8	0.6										9.2	24	
Chemical & petrochemical	2.6			4.1			1.8	0.9	1.2	0.2									4.4	11	
Non-ferrous metals																					
Non-metallic minerals	38			4.7			1.6	3.0	0.1										1.9	45	
Transportation equipment																					
Machinery				4.6			3.0	0.7	0.8	0.1							0.1		38	42	0.1
Food, beverages and tobacco	15			11			5.3	1.5	3.9	0.3							38		28	92	38
Pulp, paper and printing	8.5			0.4			0.2	0.1	0.1										2.8	12	
Wood and wood products				0.3			0.1		0.3										0.4	0.8	
Textiles and leather	0.7			0.2				0.1	0.1										2.8	3.7	
Non-specified industry	9.1			2.7			1.5	0.2	1.0								0.5		2.3	15	0.5
Transport sector				515	234	15	256	9.2									23		0.6	538	23
Domestic air transport				15	0.2	15														15	
Road				462	227		235										23		0.1	485	23
Rail				0.1			0.1												0.4	0.5	
Inland waterways				37	7.3		20	9.2									0.3			37	0.3
Non-specified transport																					
Other sector				151	0.5		68	6.3	76	1.3							267		238	656	267
Residential				57					55	1.3							252		133	441	252
Commerce and public services				89			62	6.3	20								15		94	198	15
Agriculture				1.8	0.4		1.3												7.9	9.7	
Fishery				4.3	0.1		4.3										0.1		2.7	7.2	0.1
Non-specified																					
Non-energy	3.4			55						55										58	
Electricity and heat output																					
Electricity generated (GWh)	73 754			1 304							16 668	10 287		10 730	2 544	1 308	1 400	9		118 004	26 270
Electricity plants	73 754			1 304							16 668	10 287		10 730	2 544	1 308	1 400	9		118 004	26 270
CHP plants																					
Heat generated (PJ)																					
Heat plants																					
CHP plants																					

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of the Philippines

2022

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production	319		15								109	36		375	6.6	3.7	449	0.1		1 315	871
Import	723		244	646	162	38	287	43	73	43							6.5			1 619	6.5
Export	- 157		- 15	- 16	-1.1			-1.3		- 14										- 188	
International marine bunkers				-4.5			-3.3	-1.2												-4.5	
International aviation bunkers				- 51		- 51														- 51	
Stock changes	- 87		21	-9.6	-1.1	-2.4	-3.1	3.4	-1.3	-5.1							2.6			- 72	2.6
Total primary energy supply	799		266	565	160	- 15	281	44	71	24	109	36		375	6.6	3.7	458	0.1		2 618	880
Transfers																					
Total transformation sector	- 717		- 247	198	59	28	72	-8.4	9.3	39	- 106	- 36		- 375	-6.6	-3.7	- 132	-0.1	401	-1 024	- 554
Main activity producers	- 717			- 34			- 26	-8.7			- 106	- 36		- 375	-6.6	-3.7	- 22	-0.1	401	- 900	- 444
Autoproducers																					
Gas processing																					
Petroleum refineries			- 247	233	59	28	97	0.3	9.3	39										- 14	
Coal transformation																					
Other transformation																	- 110			- 110	- 110
Losses & own use			- 13								-3.5								- 73	- 89	
Discrepancy			-5.7	1.9	0.3	1.1	6.3	2.3	2.4	- 10										-3.8	
Total final consumption	81			765	218	14	359	38	83	53							326		329	1 502	326
Total final energy consumption	78			715	218	14	359	38	83	2.4							326		329	1 448	326
Industry sector	78			76			50	17	8.5	0.5							40		104	298	40
Mining and quarrying				19			17	2.3									0.3		4.6	24	0.3
Construction				17			17		0.3								0.3		11	29	0.3
Iron and steel	10			5.9			0.6	4.5	0.7										9.0	25	
Chemical & petrochemical	2.1			5.0			1.8	2.2	0.8	0.2									4.3	11	
Non-ferrous metals																					
Non-metallic minerals	39			5.5			1.7	3.6	0.1										1.9	47	
Transportation equipment																					
Machinery				6.9			4.6	1.1	1.1								0.1		37	44	0.1
Food, beverages and tobacco	11			13			5.7	2.9	3.8	0.2							38		28	90	38
Pulp, paper and printing	8.6			0.4			0.3	0.1											2.8	12	
Wood and wood products				0.3					0.3										0.4	0.7	
Textiles and leather	0.6			0.2					0.1										2.8	3.6	
Non-specified industry	5.4			3.5			2.0	0.4	1.2								0.5		2.3	12	0.5
Transport sector				494	217	14	249	13									22		0.4	516	22
Domestic air transport				14	0.2	14														14	
Road				440	210		230										22			462	22
Rail				0.1			0.1												0.3	0.4	
Inland waterways				39	7.2		18	13									0.2			39	0.2
Non-specified transport																					
Other sector				145	1.0		60	7.3	74	1.9							265		225	634	265
Residential				55					53	1.9									127	432	250
Commerce and public services				84			55	7.3	22								15		87	186	15
Agriculture				2.5	0.7		1.8												4.7	7.2	
Fishery				3.6	0.3		3.3										0.1		5.2	8.9	0.1
Non-specified																					
Non-energy	3.8			50					50											54	
Electricity and heat output																					
Electricity generated (GWh)	66 430			2 519							17 884	10 085		10 425	1 822	1 030	1 310	12	111 516	24 671	
Electricity plants	66 430			2 519							17 884	10 085		10 425	1 822	1 030	1 310	12	111 516	24 671	
CHP plants																					
Heat generated (PJ)																					
Heat plants																					
CHP plants																					

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of the Philippines

	Petajoules																										
Total	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
Primary energy supply	1 110	1 355	1 621	1 543	1 563	1 562	1 551	1 589	1 572	1 612	1 689	1 669	1 734	1 757	1 827	1 894	1 987	2 172	2 319	2 453	2 532	2 550	2 421	2 504	2 618	2 788	Primary energy supply
Production	685	627	790	742	814	830	847	885	899	945	994	1 028	1 050	1 081	1 104	1 077	1 134	1 151	1 265	1 262	1 286	1 338	1 295	1 292	1 315	1 322	Production
Import	496	790	916	919	837	836	832	799	814	826	845	743	908	881	915	971	1 079	1 242	1 347	1 448	1 580	1 532	1 380	1 477	1 619	1 760	Import
Export	- 28	- 37	- 76	- 59	- 79	- 87	- 59	- 81	- 99	- 118	- 117	- 102	- 165	- 142	- 124	- 127	- 189	- 154	- 231	- 220	- 204	- 284	- 235	- 245	- 188	- 207	Export
Final energy consumption	780	908	954	946	943	952	955	941	927	958	966	991	1 042	1 045	1 067	1 125	1 168	1 248	1 349	1 418	1 436	1 471	1 307	1 398	1 448	1 491	Final energy consumption
Industry	173	208	190	189	180	202	199	207	211	220	242	225	249	249	243	264	273	283	312	332	315	306	265	286	298	296	Industry
Transport	196	300	348	344	357	349	361	344	323	336	314	331	336	334	350	368	382	442	478	495	512	532	411	460	516	538	Transport
Residential	370	350	331	320	312	304	299	296	297	304	309	320	330	335	342	351	355	366	378	385	395	407	420	426	432	441	Residential
Commerce & public services	34	44	71	78	78	80	78	78	81	83	86	101	111	115	118	127	142	141	162	184	195	207	193	203	186	198	Commerce & public services
Others	5.7	5.6	15	15	16	17	17	16	15	14	15	14	15	13	14	15	15	17	19	22	19	20	18	23	16	17	Others
Coal and peat																											Coal and peat
Primary energy supply	53	69	194	189	177	180	190	223	211	226	266	254	294	323	338	419	446	486	548	648	685	732	735	792	799	957	Primary energy supply
Production	26	27	27	25	34	41	55	64	51	75	80	104	147	153	162	157	168	163	248	264	260	304	286	310	319	337	Production
Import	30	38	151	168	131	131	142	147	159	171	201	155	242	242	263	319	335	382	443	492	581	612	652	690	723	785	Import
Export										- 18	- 20	- 44	- 90	- 60	- 70	- 75	- 127	- 68	- 150	- 136	- 111	- 221	- 166	- 205	- 157	- 166	Export
Transformation sector	- 23	- 31	- 158	- 155	- 144	- 139	- 146	- 173	- 156	- 162	- 187	- 186	- 213	- 242	- 264	- 327	- 344	- 388	- 428	- 515	- 577	- 633	- 658	- 701	- 717	- 870	Transformation sector
Power generation	- 23	- 31	- 158	- 155	- 144	- 139	- 146	- 173	- 156	- 162	- 187	- 186	- 213	- 242	- 264	- 327	- 344	- 388	- 428	- 515	- 577	- 633	- 658	- 701	- 717	- 870	Power generation
Final energy consumption	22	31	29	29	29	36	38	44	49	56	73	62	77	77	70	87	95	93	112	126	101	93	68	82	78	83	Final energy consumption
Industry	22	31	29	29	29	36	38	44	49	56	73	62	77	77	70	87	95	93	112	126	101	93	68	82	78	83	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply																											Primary energy supply
Production																											Production
Import																											Import
Export																											Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption																											Final energy consumption
Industry																											Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																										</	

Major economic indicators of the Philippines

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	62.85	64.38	65.93	67.53	69.02	70.55	79.63	81.40	83.07	84.73	86.39	88.02	89.51	91.08	92.70	94.38	96.34	98.25	100.18	102.08	103.77	105.31	106.74	108.12	109.47	110.80	112.08	113.10	113.96	114.89	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	107	107	107	109	114	119	143	147	153	160	171	179	189	201	210	213	229	237	254	271	288	306	328	351	373	396	359	379	408	430	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	283	282	283	289	302	316	377	389	403	424	452	474	499	532	555	563	604	628	671	716	762	810	868	928	987	1 047	948	1 002	1 078	1 137	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	51	52	60	62	73	85	84	79	84	87	95	107	128	156	182	176	208	234	262	284	297	306	319	328	347	377	362	394	404	437	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	1 704	1 656	1 624	1 620	1 655	1 694	1 793	1 808	1 837	1 893	1 978	2 038	2 110	2 209	2 265	2 257	2 373	2 417	2 534	2 654	2 777	2 910	3 076	3 247	3 411	3 576	3 199	3 351	3 578	3 745	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	4 504	4 378	4 294	4 283	4 374	4 477	4 740	4 778	4 856	5 003	5 229	5 387	5 579	5 840	5 987	5 965	6 273	6 388	6 698	7 017	7 340	7 692	8 132	8 584	9 016	9 452	8 455	8 858	9 457	9 899	GDP, PPP (constant 2021 USD)
Nominal (current USD)	804	804	917	919	1 060	1 200	1 051	970	1 015	1 027	1 100	1 220	1 426	1 713	1 959	1 864	2 163	2 384	2 615	2 781	2 867	2 910	2 985	3 038	3 169	3 401	3 228	3 484	3 548	3 804	Nominal (current USD)
Nominal GDP & its components (billion of current PHP) ¹¹																															Nominal GDP & its components (billion of current PHP) ¹¹
Gross domestic product	1 228	1 423	1 542	1 682	1 933	2 177	3 698	4 024	4 351	4 718	5 324	5 917	6 550	7 198	8 050	8 390	9 399	10 145	11 061	12 051	13 207	13 944	15 132	16 557	18 265	19 518	17 952	19 411	22 028	24 314	Gross domestic product
Household final consumption expenditure	834	1 006	1 115	1 222	1 374	1 545	2 652	2 934	3 180	3 468	3 918	4 376	4 800	5 201	5 892	6 141	6 598	7 317	8 025	8 678	9 413	10 106	10 979	11 951	13 250	14 288	13 476	14 609	16 725	18 604	Household final consumption expenditure
General government final consumption expenditure	118	136	143	162	199	237	409	432	447	469	487	525	594	665	710	824	914	985	1 194	1 304	1 395	1 522	1 704	1 875	2 200	2 433	2 740	3 024	3 314	3 458	General government final consumption expenditure
Gross fixed capital formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	716	737	798	879	987	1 076	1 226	1 359	1 536	1 562	1 918	1 924	2 204	2 504	2 755	3 100	3 783	4 246	4 983	5 300	3 824	4 325	5 143	5 746	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	- 137	25	91	40	115	21	- 178	- 198	- 11	- 101	1.9	179	- 42	- 18	6.9	- 125	- 58	- 15	- 27	- 149	- 695	- 222	294	- 57	Stock change
Exports of goods and services	238	298	320	375	465	565	1 603	1 656	1 740	1 996	2 227	2 440	2 702	2 736	2 685	2 536	3 090	2 953	3 038	3 155	3 613	3 794	4 036	4 893	5 519	5 540	4 524	4 999	6 253	6 476	Exports of goods and services
Imports of goods and services	289	331	373	474	550	683	1 546	1 760	1 907	2 136	2 412	2 522	2 594	2 565	2 763	2 573	3 123	3 215	3 360	3 573	3 977	4 453	5 312	6 394	7 662	7 897	5 918	7 324	9 702	9 916	Imports of goods and services
Real GDP & its components (billion of 2019 PHP) ¹¹																															Real GDP & its components (billion of 2019 PHP) ¹¹
Gross Domestic Product	5 240	5 217	5 239	5 353	5 587	5 845	6 985	7 198	7 466	7 846	8 361	8 774	9 241	9 843	10 271	10 420	11 184	11 615	12 416	13 255	14 096	14 991	16 063	17 176	18 265	19 383	17 538	18 540	19 946	21 046	Gross Domestic Product
Household final consumption expenditure	3 732	3 825	3 949	4 049	4 167	4 292	5 356	5 568	5 852	6 166	6 530	6 821	7 106	7 448	7 735	7 930	8 215	8 671	9 261	9 800	10 366	11 035	11 823	12 528	13 250	14 027	12 911	13 455	14 570	15 377	Household final consumption expenditure
General government final consumption expenditure	715	701	695	734	773	810	829	818	788	821	838	863	968	1 037	1 043	1 158	1 206	1 229	1 419	1 489	1 543	1 665	1 821	1 940	2 200	2 400	2 652	2 843	2 989	2 999	General government final consumption expenditure
Gross fixed capital formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1 278	1 220	1 267	1 389	1 449	1 435	1 507	1 673	1 814	1 852	2 222	2 129	2 402	2 687	2 901	3 301	3 991	4 412	4 983	5 176	3 762	4 132	4 535	4 907	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	- 146	143	188	57	89	34	- 187	- 243	-1.4	- 148	2.3	39	- 116	21	31	24	27	43	- 27	- 45	- 387	- 81	71	- 12	Stock change
Exports of goods and services	844	898	944	1 000	1 187	1 320	1 770	1 732	1 816	1 983	2 113	2 377	2 616	2 691	2 575	2 454	2 952	2 929	3 061	3 122	3 501	3 849	4 204	4 935	5 519	5 664	4 750	5 130	5 692	5 768	Exports of goods and services
Imports of goods and services	1 044	1 034	1 124	1 247	1 417	1 631	2 103	2 284	2 446	2 576	2 661	2 760	2 771	2 764	2 897	2 829	3 416	3 384	3 612	3 865	4 248	4 885	5 804	6 683	7 662	7 841	6 151	6 939	7 912	7 994	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	16.8	17.2	17.2	17.1	16.8	16.2	15.2	15.4	15.3	15.3	15.0	14.8	14.7	14.6	14.4	14.2	13.4	13.3	12.9	12.4	11.9	11.3	10.4	10.1	9.7	9.2	10.2	9.6	8.9	8.6	Agriculture, Fishery and Forestry
Industry	33.2	32.5	32.2	32.1	32.5	33.1	32.0	31.4	31.4	31.4	30.8	30.8	30.3	29.9	30.2	29.3	30.0	29.4	29.6	29.6	29.9	30.0	30.3	30.3	30.6	30.4	29.2	29.9	29.6	29.1	Industry
Services, etc.	49.9	50.3	50.6	50.8	50.7	50.7	52.8	53.2	53.2	53.3	54.2	54.4	55.0	55.6	55.4	56.4	56.6	57.3	57.5	58.0	58.2	58.8	59.3	59.6	59.8	60.4	60.7	60.5	61.4	62.3	Services, etc.
Manufacturing Production Index (2010=100) ¹²	N.A.	N.A.	57.6	66.4	82.1	81.5	72.0	75.9	76.0	77.0	83.1	86.1	91.9	99.7	104.4	90.5	100.0	105.9	105.2	104.4	108.2	135.0	150.8	150.3	107.6	98.1	58.4	89.1	102.6	N.A.	Manufacturing Production Index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	8.1	8.8	9.8	11.1	13.3	17.5	38.1	32.2	35.2	36.2	39.7	41.3	47.4	50.5	49.1	38.4	51.5	48.3	52.1	56.7	62.1	58.8	56.3	68.7	67.5	70.3	63.9	74.6	78.9	73.5	Exports, f.o.b.
Imports, c.i.f.	13.0	12.9	15.5	18.7	22.6	28.3	37.0	34.9	41.1	42.6	46.1	49.5	54.1	58.0	60.4	45.9	58.5	64.1	65.8	65.7	68.7	74.8	85.9	101.9	115.1	112.9	90.8	124.4	145.9	133.8	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	-4.0	-3.2	-4.7	-6.2	-7.9	-8.9	-8.2	-8.1	-7.6	-8.1	-8.3	-12.1	-11.5	-14.0	-18.6	-13.9	-16.9	-20.4	-18.9	-17.7	-17.3	-23.3	-35.5	-40.2	-51.0	-49.3	-33.8	-52.8	-69.7	0.0	Trade balance
Current account	-2.7	-1.0	-1.0	-3.0	-3.0	-2.0	-2.2	-1.8	-0.3	0.3	1.6	2.0	7.0	8.1	0.1	8.4	7.2	5.6	6.9	11.4	10.8	7.3	-1.2	-2.1	-8.9	-3.0	11.6	-5.9	-18.3	0.0	Current account
Overall balance	-0.6	1.9	2.2	0.3	2.2	3.3	1.1	-1.3	0.2	0.8	0.0	-0.5	6.9	8.4	-1.1	7.4	21.0	11.1	13.8	9.3	1.2	5.0	-1.3	0.7	0.5	5.1	18.5	0.6	-4.3	0.0	Overall balance
Foreign exchange rate (PHP/USD) ¹¹	24.31	27.48	25.51	27.12	26.42	25.71	44.19	50.99	51.60	54.20	56.04	55.09	51.31	46.15	44.32	47.68	45.11	43.31	42.23	42.45	44.40	45.50	47.49	50.40	52.66	51.80	49.62	49.25	54.48	55.63	Foreign exchange rate (PHP/USD) ¹¹
PPP conversion factor, GDP (PHP/USD) ¹¹	7.49	8.43	8.89	9.28	10.00	10.54	13.80	14.25	14.63	14.80	15.26	15.67	15.98	16.05	16.88	17.24	17.77	18.10	18.12	18.52	19.03	19.21	19.20	19.70	19.96	19.74	19.44	19.38	19.08	19.26	PPP conversion factor, GDP (PHP/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2018=100) ¹³	23.4	27.3	29.4	31.4	34.6	37.2	52.9	55.9	58.3	60.1	63.7	67.4	70.9	73.1	78.4	80.5	84.0	87.3	89.1	90.9	93.7	93.0	94.2	96.4	100.0	100.7	102.4	104.7	110.4	115.5	GDP Deflator (2018=100) ¹³
Producer Price Index (2010=100) ¹²	N.A.	N.A.	38.2	N.A.	39.7	41.4	59.5	68.6	70.0	76.0	85.1	92.8	103.2	102.5	106.6	105.2	100.0	100.9	100.3	92.7	91.9	85.7	81.6	80.9	60.8	59.4	56.7	55.7	59.2	N.A.	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	28.6	34.1	37.0	39.5	43.6	46.6	63.7	67.1	68.9	70.5	73.9	78.7	83.0	85.4	92.4	96.3	100.0	104.7	107.9	110.7	114.7	115.4	116.9	120.2	126.6	129.6	132.7	137.9	146.0	154.7	Consumer Price Index (2010=100) ¹²
Growth rate (%) ^{13</}																															

Energy prices in the Philippines
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	PHP / US Dollar	45.11	43.31	42.23	42.45	44.40	45.50	47.49	50.40	52.66	51.80	49.62	49.25	54.50	55.63
Coal and Coal Products															
Coking Coal															
Anthracite											355.40	124.03	121.66		
Other bituminous coal													114.47		
Sub-bituminous Coal	USD/tonne			102.57			87.85	87.85	94				98.96		
Lignite													95.93		
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil	USD/BBL	78	106.19	109.0	105.0	97.0	50.91	42.16	54	69	66.76	49.82	76.52	101.03	
Natural Gas Liquids															
Ethane															
LPG	USD/BBL			90.05			39.50	37.78			44.36	43.18	60.54	113.88	99.18
Naphtha	USD/BBL							43.25			58.59	42.41	194.01	75.15	91.20
Motor Gasoline	USD/BBL			119.99			64.62	55.36			71.57	48.07	79.12	110.11	101.94
Aviation Gasoline	USD/BBL			204.94			183.91	111.41			71.63	125.50	83.28	192.24	155.52
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	USD/BBL			128.38			55.74	52.46			77.07	56.92	70.32	127.49	106.17
Other Kerosene	USD/BBL			126.71			47.71	54.42			77.82	48.37	69.60	126.83	189.59
Gas/Diesel Oil	USD/BBL			127.16			51.05	51.49			75.89	49.14	74.32	128.73	111.94
Fuel Oil	USD/BBL			113.44			55.97	36.28			64.65	46.75	65.81	87.51	82.24
White Spirit SBP	USD/BBL										101.65	77.03	213.67	131.22	170.89
Lubricants															
Bitumen	USD/BBL			111.96			26.83	38.03			69.34	69.68	82.17	90.34	109.50
Paraffin Waxes															
Petroleum Coke	USD/BBL											2.36			22.12
Natural Gas															
Natural Gas															
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	PHP / US Dollar	45.11	43.31	42.23	42.45	44.40	45.50	47.49	50.40	52.66	51.80	49.62	49.25	54.50	55.63
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal	PHP/tonne			2,175			2,990	3,213	3,494						
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	PHP/L			38.12			49.18	46.61	56.44						
Naphtha															
Motor Gasoline	PHP/L			58.77			50.13	49.49	57.45						
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	PHP/L			56.99			56.45	38.72	44.27						
Other Kerosene	PHP/L			49.18			33.58	30.51	36.06						
Gas/Diesel Oil	PHP/L			47.77			34.06	32.38	40.11						
Fuel Oil	PHP/L			40.05			31.78	32.00	37.20						
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	USD/GJ			12.10			8.20		7.01		8.20	6.99			
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity	PHP/kWh		4.82	7	7.93	5.58	4.46	3.33	3.37	3.69	5.43	2.45	5.21		

Energy prices in the Philippines
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	PHP / US Dollar	45.11	43.31	42.23	42.45	44.40	45.50	47.49	50.40	52.66	51.80	49.62	49.25	54.50	55.63
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal	PHP/tonne						3 900						3,263		
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG (household)	PHP/KG	57.22	63.97	66.56	65.84	66.66	51.92	47.37	54.77	61.22	60.38	62.49	77.83	86.38	83.06
LPG (transport)	PHP/L	26.54	30.04	31.81	31.02	31.99							34.17	40.26	37.78
Naphtha															
Motor Gasoline (regular)	PHP/L	43.51	54.29	54.34	51.96	52.15	42.23	39.80	45.89	54.41	53.11	48.25	54.34	72.45	66.43
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	PHP/L		56.96				41.77	38.72							
Other Kerosene	PHP/L	41.44	50.27	50.42	50.34	48.90	34.84	31.78	37.32	50.25	47.55	37.59	47.60	74.52	72.77
Gas/Diesel Oil	PHP/L	33.89	44.32	44.45	42.06	41.64	27.54	25.36	32.14	43.02	42.44	35.12	42.89	72.12	60.07
Fuel Oil	PHP/L		40.05				31.78	32.00							
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	USD/GJ							6.06							
Liquefied Natural Gas (export)															
Compressed Natural Gas	PHP/dL		14.52												
Electricity															
Industrial	PHP/kWh	7.48	7.84	7.66	6.78	6.82	5.99	5.80	6.98	7.90	7.13	6.39	10.29		
Commercial	PHP/kWh	9.07	9.86	9.43	10.41	8.72	7.60	7.32	8.12	9.00	8.38	7.79	9.32		
Residential	PHP/kWh	10.17	11.14	10.78	12.85	10.05	8.87	8.65	9.55	10.45	9.66	8.97	9.32		
Others	PHP/kWh		10.74												

* Average of low and high prices.

Russia

Energy balance table of Russia

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	10 030	3.3	23 052								22 119	719	2 381	4.6	9.8	17	106	349		58 791	857	Production
Import	541	6.5									144						0.4	0.2	5.8	698	0.4	Import
Export	-4 645	- 23	-11 255	-4 469	- 260	- 91	-1 696	-1 432		- 989	-4 786						-1.5	-0.6	- 65	-25 246	-1.5	Export
International marine bunkers				- 291			- 243	- 48												- 291		International marine bunkers
International aviation bunkers				- 78		- 78														- 78		International aviation bunkers
Stock changes	294	- 177																		116		Stock changes
Total primary energy supply	6 220	- 191	11 797	-4 838	- 260	- 169	-1 939	-1 481		- 989	17 477	719	2 381	4.6	9.8	17	105	348	- 60	33 991	856	Total primary energy supply
Transfers																						Transfers
Total transformation sector	-5 481	1 337	-11 559	10 604	1 936	410	3 584	1 543	1 049	2 082	-9 737	- 729	-2 375	-4.6	-9.8	- 17	- 22	- 195	9 856	-8 334	- 783	Total transformation sector
Main activity producers	-2 292			- 27				- 27			-6 220	- 724	-2 375	-4.6	-9.8	- 17		-4.9	6 488	-5 186	- 756	Main activity producers
Autoproducers	- 756	- 158	- 24	- 212			- 74	- 102	-1.0	- 35	-3 012	-4.4					- 20	- 190	3 368	-1 008	- 24	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-11 535	10 843	1 936	410	3 658	1 672	1 050	2 117										- 692		Petroleum refineries
Coal transformation	-2 433	1 494																-0.1		- 939		Coal transformation
Other transformation											- 505						-2.6		-1.2	- 509	-2.6	Other transformation
Losses & own use	- 30	- 55	- 237	- 189			- 173	- 14	-2.5		- 812							-6.3	-2 252	-3 581		Losses & own use
Discrepancy	- 461	10		99			99				28	9.9	-6.6				0.3	-0.2	35	- 285	10	Discrepancy
Total final consumption	247	1 101	0.6	5 677	1 676	241	1 572	49	1 047	1 093	6 957						83	147	7 580	21 792	83	Total final consumption
Total final energy consumption	238	1 101	0.6	4 265	1 676	241	1 572	49	629	98	5 256						83	147	7 580	18 670	83	Total final energy consumption
Industry sector	134	1 101	0.1	445			310	21	15	98	1 424						9.1	139	3 056	6 308	9.1	Industry sector
Mining and quarrying	0.8	1.4		99			96	2.6	0.1		65						0.3	0.4	216	383	0.3	Mining and quarrying
Construction	0.4			124			122	0.4	1.3		134						0.2		67	326	0.2	Construction
Iron and steel	95	1 095		10				9.7	0.6		441							64	482	2 186		Iron and steel
Chemical & petrochemical	6.5	0.8		19			7.8	1.3	9.6		303						0.7	7.8	836	1 173	0.7	Chemical & petrochemical
Non-ferrous metals																			346	346		Non-ferrous metals
Non-metallic minerals	25	3.2		25			21	2.7	0.8		299							3.7	161	517		Non-metallic minerals
Transportation equipment	0.2	0.6		10.0			8.3	0.9	0.7		18								100	130		Transportation equipment
Machinery		0.4		9.0			8.8		0.2		56								135	201		Machinery
Food, beverages and tobacco	5.2		0.1	26			25		1.9		52						1.0	12	289	387	1.0	Food, beverages and tobacco
Pulp, paper and printing				7.6			3.8	3.6	0.1		15						0.1	22	267	311	0.1	Pulp, paper and printing
Wood and wood products	0.2			8.6			8.5	0.1	0.1		9.7						6.4	29	74	128	6.4	Wood and wood products
Textiles and leather				0.8			0.7				2.5							0.2	59	62		Textiles and leather
Non-specified industry	0.2			106			7.4		0.1	98	28						0.2	0.2	24	159	0.2	Non-specified industry
Transport sector				2 940	1 676	241	953	8.3	62		1 205								314	4 459		Transport sector
Domestic air transport				241		241														241		Domestic air transport
Road				2 416	1 663		692		62		10									2 426		Road
Rail				186	1.3		185	0.1	0.1										210	396		Rail
Inland waterways				17	0.6		11	5.0	0.1											17		Inland waterways
Non-specified transport				80	11		65	3.2	0.3		1 195								104	1 379		Non-specified transport
Other sector	104		0.5	881			309	20	552		2 626						74	7.2	4 209	7 902	74	Other sector
Residential	73			662			113	0.5	548		2 353						36	0.4	2 669	5 793	36	Residential
Commerce and public services	30			67			62	4.5	1.1		201						37	5.1	1 330	1 671	37	Commerce and public services
Agriculture	0.9		0.4	126			124		2.5		73						1.1	1.8	208	411	1.1	Agriculture
Fishery				25			11	15			0.1								2.1	28		Fishery
Non-specified			0.1																	0.1		Non-specified
Non-energy	9.3			1 412					417	995	1 701									3 122		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	206 113	9 402	100	9 386			6 539	1 891			523 621	202 466	217 697	456	2 710	4 777	74	4 197	100	1180 999	210 483	Electricity generated (GWh)
Electricity plants			100	4 811			4 811				16 490	202 466	217 697	456	2 710	4 777			100	449 506	210 408	Electricity plants
CHP plants	206 113	9 402		4 575			1 727	1 891			507 132						74	4 197		731 493	74	CHP plants
Heat generated (PJ)	1 018	64	19	132			8	97	1		3 794		14				17	547	19	5 621	17	Heat generated (PJ)
Heat plants	434	20	19	91			7	73	1		1 495						15	473	19	2 563	15	Heat plants
CHP plants	584	43		41			1	24			2 299		14				2	74		3 059	2	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.
3. Russia's 2023 energy balance is developed by the EGEDA secretariat using its estimates, actual monthly oil and natural gas data, as well as electricity and NRE data from Rosstat.

Energy balance table of Russia

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	10 199	2.9	22 884								23 877	710	2 451	4.5	9.2	20	112	335		60 605	856	Production
Import	537	6.5		29			7.9	3.2	2.6	15	268						0.4	0.3	5.7	847	0.4	Import
Export	-4 906	- 46	-10 718	-4 716	- 234	- 100	-1 492	-1 683	- 113	-1 094	-5 781						-1.5	-1.0	- 65	-26 234	-1.5	Export
International marine bunkers				- 277			- 231	- 46												- 277		International marine bunkers
International aviation bunkers				- 65		- 65														- 65		International aviation bunkers
Stock changes	437	- 97	-0.4	- 39	- 23					- 17	- 472							-0.1		- 172		Stock changes
Total primary energy supply	6 267	- 134	12 166	-5 069	- 257	- 165	-1 716	-1 726	- 111	-1 096	17 892	710	2 451	4.5	9.2	20	111	334	- 59	34 704	855	Total primary energy supply
Transfers																						
Total transformation sector	-5 241	1 225	-11 923	10 954	1 850	425	3 440	1 765	1 197	2 277	-9 096	- 717	-2 440	-4.5	-9.2	- 20	- 25	- 192	9 705	-7 785	- 776	Total transformation sector
Main activity producers	-2 253			- 26				- 26			-5 811	- 713	-2 440	-4.5	-9.2	- 20		-5.4	6 404	-4 878	- 747	Main activity producers
Autoproducers	- 749	- 140	- 24	- 208			- 73	- 100	-1.0	- 35	-2 814	-4.3					- 23	- 187	3 302	- 847	- 27	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-11 899	11 189	1 850	425	3 513	1 891	1 198	2 311										- 711		Petroleum refineries
Coal transformation	-2 239	1 365																-0.1		- 875		Coal transformation
Other transformation											- 471								-0.9	- 475	-2.6	Other transformation
Losses & own use	- 30	- 51	- 242	- 190			- 174	- 13	-2.5		- 794							-6.4	-2 216	-3 529		Losses & own use
Discrepancy	- 752	10		126			78	22		26	- 676	6.9	- 11				1.8	-0.2	4.8	-1 290	8.7	Discrepancy
Total final consumption	244	1 051	0.6	5 821	1 594	260	1 628	48	1 084	1 207	7 326						87	135	7 434	22 100	87	Total final consumption
Total final energy consumption	235	1 051	0.6	4 266	1 594	260	1 628	48	629	107	5 475						87	135	7 434	18 685	87	Total final energy consumption
Industry sector	130	1 051	0.1	463			321	21	15	107	1 550						9.4	128	2 989	6 321	9.4	Industry sector
Mining and quarrying	0.9	1.5		102			100	2.5	0.1		71						0.3	0.4	211	387	0.3	Mining and quarrying
Construction	0.5			128			127	0.4	1.2		146						0.2		66	341	0.2	Construction
Iron and steel	90	1 045		9.9				9.4	0.6		480							59	471	2 155		Iron and steel
Chemical & petrochemical	6.4	0.7		19			8.1	1.3	9.2		329						0.7	7.2	818	1 181	0.7	Chemical & petrochemical
Non-ferrous metals																				337		Non-ferrous metals
Non-metallic minerals	26	3.2		26			22	2.6	0.8		325							3.4	157	541		Non-metallic minerals
Transportation equipment	0.2	0.4		10			8.6	0.9	0.7		20								98	129		Transportation equipment
Machinery	0.1	0.3		9.3			9.1		0.2		61								132	203		Machinery
Food, beverages and tobacco	5.4		0.1	27			25		1.8		57						1.1	11	283	385	1.1	Food, beverages and tobacco
Pulp, paper and printing				7.6			4.0	3.5	0.1		16						0.1	20	261	305	0.1	Pulp, paper and printing
Wood and wood products	0.2			8.9			8.8	0.1	0.1		11						6.5	27	72	125	6.5	Wood and wood products
Textiles and leather				0.8			0.8				2.7							0.2	58	61		Textiles and leather
Non-specified industry	0.2			115			7.7		0.1	107	31						0.2	0.2	24	170	0.2	Non-specified industry
Transport sector				2 911	1 594	260	987	8.8	61		1 140								307	4 357		Transport sector
Domestic air transport				260		260														260		Domestic air transport
Road				2 358	1 581		717		60		9.8									2 368		Road
Rail				193	1.3		191	0.1	0.1										205	398		Rail
Inland waterways				18	0.6		12	5.3	0.1											18		Inland waterways
Non-specified transport				82	11		67	3.4	0.3		1 130								101	1 313		Non-specified transport
Other sector	105		0.5	892			320	19	553		2 786						78	7.1	4 139	8 007	78	Other sector
Residential	75			667			117	0.4	549		2 494						37	0.4	2 618	5 891	37	Residential
Commerce and public services	29			69			64	4.3	1.1		213						39	4.9	1 316	1 672	39	Commerce and public services
Agriculture	0.9		0.4	131			128		2.5		79						1.2	1.8	203	416	1.2	Agriculture
Fishery				25			11	14			0.1								2.0	27		Fishery
Non-specified			0.1																	0.1		Non-specified
Non-energy	9.1			1 555					455	1 100	1 851									3 416		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	204 567	8 448	102	9 204			6 412	1 854			511 727	199 269	223 684	449	2 556	5 548	74	4 155	102	1169 784	207 896	Electricity generated (GWh)
Electricity plants			102	4 718			4 718				16 165	199 269	223 684	449	2 556	5 548			102	452 491	207 821	Electricity plants
CHP plants	204 567	8 448		4 486			1 694	1 854			495 562						74	4 155		717 293	74	CHP plants
Heat generated (PJ)	1 010	56	19	130			8	95	1		3 708		15				20	536	19	5 506	20	Heat generated (PJ)
Heat plants	431	18	19	89			7	72	1		1 458						17	463	19	2 508	17	Heat plants
CHP plants	580	38		41			1	24			2 250		15				3	73		2 998	3	CHP plants

Notes:

- 1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
- 2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.
- 3. Russia's 2022 energy balance is developed by the EGEDA secretariat using its estimates, actual monthly oil and natural gas data, and electricity data from Rosstat.

Major energy indicators of Russia

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																											Total
Primary energy supply	36 816	26 045	25 933	26 208	26 096	27 023	27 112	27 288	28 085	28 164	28 821	27 077	29 027	30 005	30 366	29 622	29 711	29 094	29 971	30 528	32 137	30 953	30 819	34 622	34 704	33 991	Primary energy supply
Production	54 145	39 946	40 952	42 219	43 812	46 876	49 090	50 384	51 379	51 886	52 506	49 855	53 571	54 448	55 118	55 728	55 268	55 870	57 515	59 838	61 856	62 553	58 388	63 261	60 605	58 791	Production
Import	5 043	1 259	1 377	1 102	1 047	1 200	1 043	971	1 013	981	1 212	1 008	706	1 120	1 017	1 049	1 097	1 156	939	1 031	1 037	973	968	905	847	698	Import
Export	-22 318	-14 493	-16 013	-16 585	-18 316	-20 382	-22 577	-23 551	-23 552	-24 108	-23 679	-23 520	-24 773	-25 252	-25 498	-26 602	-25 775	-27 196	-27 894	-28 938	-30 490	-31 526	-28 594	-28 785	-26 234	-25 246	Export
Final energy consumption	24 487	17 739	15 976	16 045	15 609	15 927	15 977	15 395	15 881	15 904	16 192	15 146	15 922	16 409	16 526	15 991	16 607	16 467	16 912	17 525	18 140	18 223	17 387	18 828	18 685	18 670	Final energy consumption
Industry	8 737	6 141	5 352	5 320	5 273	5 206	5 196	5 151	5 357	5 217	5 205	4 834	5 289	5 364	6 032	5 676	5 881	5 833	6 244	6 261	5 800	6 015	5 907	6 276	6 321	6 308	Industry
Transport	4 852	3 188	3 118	3 217	3 293	3 468	3 718	3 708	3 832	3 873	4 070	3 752	4 040	4 121	3 920	3 929	3 967	3 930	3 948	4 013	4 214	4 265	3 898	4 291	4 357	4 459	Transport
Residential	3 496	6 151	5 873	6 027	5 605	5 814	5 650	4 629	4 817	4 708	4 772	4 581	4 667	4 921	4 602	4 492	4 829	4 803	4 793	5 216	6 175	5 865	5 626	6 030	5 891	5 793	Residential
Commerce & public services	1 519	1 068	948	824	812	838	856	1 454	1 454	1 644	1 700	1 592	1 550	1 502	1 501	1 538	1 535	1 524	1 559	1 646	1 549	1 705	1 577	1 815	1 672	1 671	Commerce & public services
Others	5 883	1 191	684	657	626	601	558	453	421	460	446	387	375	501	470	355	395	376	369	389	401	373	379	416	444	439	Others
Coal and peat																											Coal and peat
Primary energy supply	7 955	5 251	5 065	4 891	4 944	5 002	4 885	4 794	4 897	4 737	4 977	4 021	4 488	4 584	4 843	4 502	4 381	4 921	4 755	4 733	4 992	5 304	4 949	5 536	6 277	6 229	Primary energy supply
Production	8 055	5 303	5 382	5 621	5 428	5 855	6 030	6 591	6 672	6 823	7 000	6 433	6 965	6 899	7 753	7 715	7 949	8 385	8 758	9 304	10 065	10 579	9 530	10 523	10 209	10 040	Production
Import	1 330	576	639	699	522	632	559	567	650	590	784	602	383	640	607	633	619	596	538	625	624	600	589	571	537	541	Import
Export	-1 596	-749	-1 021	-1 157	-1 166	-1 436	-1 791	-2 251	-2 453	-2 630	-2 606	-2 821	-3 099	-2 960	-3 501	-3 739	-4 122	-4 126	-4 507	-4 975	-5 508	-5 675	-5 228	-5 359	-4 907	-4 646	Export
Transformation sector	-5 857	-4 354	-4 383	-4 373	-4 368	-4 468	-4 380	-4 369	-4 471	-4 376	-4 260	-3 912	-4 257	-4 494	-4 611	-4 331	-4 038	-4 490	-4 271	-4 272	-4 686	-4 776	-4 618	-4 802	-5 251	-5 490	Transformation sector
Power generation	-4 235	-3 123	-3 175	-3 118	-3 112	-3 142	-2 967	-3 021	-3 130	-2 963	-2 960	-2 497	-2 748	-2 852	-2 940	-2 785	-2 382	-2 575	-2 418	-2 366	-2 735	-2 628	-2 468	-2 589	-3 011	-3 056	Power generation
Final energy consumption	1 730	562	481	518	420	370	356	282	282	246	311	232	212	224	280	224	212	265	264	235	235	244	229	243	235	238	Final energy consumption
Industry	78	73	65	77	80	75	73	45	47	52	51	43	42	55	105	101	103	116	132	128	139	140	130	136	130	134	Industry
Transport																											Transport
Residential	470	328	374	397	278	233	224	118	134	107	126	80	65	65	65	41	60	87	78	64	71	71	69	77	75	73	Residential
Commerce & public services	862	36	16	15	15	14	14	112	95	83	130	105	103	101	107	80	45	58	52	40	23	31	28	30	29	30	Commerce & public services
Others	320	125	27	29	47	48	44	7.3	5.8	3.8	3.7	4.0	3.3	2.9	2.5	2.3	3.6	3.9	2.7	2.2	2.0	2.1	2.1	0.9	0.9	0.9	Others
Coal and peat products																											Coal and peat products
Primary energy supply	47	-13	-41	-71	-80	-97	-108	-80	-51	-92	-85	-44	-61	-68	-52	-69	-73	-65	-65	-80	-76	-80	-58	-64	-134	-191	Primary energy supply
Production	139	11	4.8	2.4	0.1	0.1	5.9	4.4	1.5	4.9	4.8	6.4	5.7	4.6	16	4.7	4.4	2.6	2.1	3.0	3.5	1.9	2.3	3.8	6.5	6.5	Production
Import	-96	-37	-46	-60	-94	-97	-112	-84	-53	-92	-88	-54	-67	-73	-69	-73	-71	-66	-85	-79	-81	-78	-96	-46	-23	-23	Import
Export																											Export
Transformation sector	530	262	302	341	361	338	335	344	356	479	489	453	497	552	899	895	973	983	1 002	1 005	1 039	1 168	1 160	1 199	1 226	1 337	Transformation sector
Power generation	-158	-93	-171	-175	-179	-202	-212	-197	-290	-209	-197	-201	-218	-219	-118	-129	-124	-131	-130	-138	-135	-138	-135	-133	-140	-158	Power generation
Final energy consumption	561	454	241	245	232	210	221	244	267	358	340	349	373	420	805	778	853	873	897	885	907	1 046	1 055	1 096	1 052	1 101	Final energy consumption
Industry	532	439	239	244	231	210	220	243	267	358	338	347	372	420	805	777	852	873	896	884	906	1 046	1 055	1 095	1 051	1 101	Industry
Transport																											Transport
Residential	27	14	1.0	0.7	0.7	0.4	0.4	0.2	0.2	0.1			0.1	0.1	0.6	1.1	0.9	0.6	0.5	0.3	0.4	0.4	0.4	0.7	0.4	0.4	Residential
Commerce & public services			0.2	0.2	0.2	0.2	0.1	0.4	0.2	0.1	1.8	1.8															Commerce & public services
Others	2.0	0.5	0.1	0.2	0.2	0.2	0.1						1.0														Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	13 479	7 924	7 696	7 906	8 161	8 315	8 474	9 079	9 572	9 721	10 238	10 201	10 757	11 180	11 782	11 966	12 598	12 142	12 334	12 443	12 329	12 340	11 779	12 298	12 166	11 797	Primary energy supply
Production	22 033	12 835	13 534	14 550	15 868	17 610	19 195	19 624	20 018	20 517	20 454	20 668	21 208	21 556	21 824	21 947	22 134	22 453	23 043	22 985	23 369	23 600	21 719	22 262	22 884	23 052	Production
Import	778	358	248	215	262	241	177	102	98	113	103	75	46	20	35	36	62	148	32	26	21						Import
Export	-9 333	-5 148	-6 077	-6 821	-7 927	-9 587	-10 840	-10 628	-10 454	-10 880	-10 229	-10 473	-10 394	-10 417	-10 096	-9 956	-9 402	-10 364	-10 724	-10 637	-10 963	-11 326	-9 948	-9 855	-10 718	-11 255	Export
Transformation sector	-12 934	-7 755	-7 610	-7 846	-8 181	-8 338	-8 300	-8 955	-9 452	-9 589	-10 055	-10 090	-10 549	-10 973	-11 572	-11 752	-12 344	-11 893	-12 034	-12 182	-12 055	-12 090	-11 551	-12 060	-11 923	-11 559	Transformation sector
Petroleum refineries	-12 871	-7 740	-7 566	-7 802	-8 139	-8 299	-8 262	-8 923	-9 419	-9 559	-10 024	-10 059	-10 516	-10 939	-11 539	-11 719	-12 318	-11 868	-11 999	-12 161	-12 034	-12 067	-11 531	-12 037	-11 899	-11 535	Petroleum refineries
Petroleum products																											Petroleum products
Primary energy supply	-2 435	-2 002	-2 416	-2 507	-2 957	-2 980	-3 163	-3 669	-3 970	-4 178	-4 246	-4 427	-4 934	-5 033	-5 244	-5 754	-6 241	-6 192	-5 719	-5 879	-6 004	-5 976	-5 366	-5 383	-5 069	-4 838	Primary energy supply
Import	307	126	13	10	0.3	0.1	24	1.1	1.8	1.5	41	34	119	176	72	77	93	82	49	51	46	52	62	43	29	29	Import
Export	-2 691	-1 974	-2 232	-2 337	-2 790	-2 779	-2 986	-3 498	-3 656	-3 949	-4 073	-4 234	-4 689	-4 793	-5 100	-5 478	-5 601	-5 661	-5 200	-5 326	-5 440	-5 430	-5 079	-5 051	-4 716	-4 469	Export
Transformation sector	8 756	5 970	6 604	6 848	7 193	7 301	7 538	8 044	8 505	8 933	9 248	9 186	10 036	9 973	10 207	10 798	11 502	11 391	11 184	11 653	11 395	11 561	10 697	11 133	10 954	10 604	Transformation sector
Power generation	-2 536	-1 522	-928	-891	-837	-806	-707	-670	-669	-555	-496	-504	-432	-664	-663	-412	-427	-369	-274	-272	-303	-249	-217	-232	-234	-239	Power generation
Petroleum refineries	11 293	7 492	7 532	7 739	8 030	8 107	8 245	8 744	9 204	9 513	9 772	9 697	10 469	10 637</													

Major economic indicators of Russia

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Population (million) ¹¹	147.97	148.39	148.54	148.46	148.41	148.38	146.60	145.98	145.31	144.65	144.07	143.52	143.05	142.81	142.74	142.79	142.85	142.96	143.20	143.51	143.82	144.10	144.34	144.50	144.48	144.41	144.07	143.45	144.24	143.83	Population (million) ¹¹	
Gross domestic product ³																															Gross domestic product ³	
Real term, billion USD (constant 2015)	1 161	1 103	943	861	753	721	780	820	859	921	988	1 051	1 137	1 234	1 298	1 197	1 251	1 304	1 357	1 381	1 391	1 363	1 366	1 391	1 430	1 462	1 423	1 503	1 472	1 545	Real term, billion USD (constant 2015)	
GDP, billion USD (PPP, constant 2021)	3 179	3 018	2 580	2 356	2 060	1 975	2 136	2 245	2 350	2 522	2 703	2 877	3 112	3 377	3 553	3 275	3 423	3 570	3 714	3 779	3 807	3 732	3 739	3 807	3 914	4 000	3 894	4 112	5 614	5 835	GDP, billion USD (PPP, constant 2021)	
Nominal, billion USD (current)	517	518	460	435	395	396	260	307	345	430	591	764	990	1 300	1 661	1 223	1 525	2 046	2 208	2 292	2 059	1 363	1 277	1 574	1 657	1 693	1 493	1 837	2 266	2 072	Nominal, billion USD (current)	
GDP per capita ³																															GDP per capita ³	
Real term (constant 2015 USD)	7 849	7 432	6 346	5 799	5 072	4 863	5 324	5 619	5 910	6 370	6 857	7 323	7 950	8 640	9 094	8 382	8 755	9 124	9 476	9 622	9 671	9 462	9 464	9 627	9 899	10 121	9 875	10 475	10 202	10 744	Real term (constant 2015 USD)	
GDP, PPP (constant 2021 USD)	21 483	20 340	17 368	15 871	13 880	13 308	14 570	15 378	16 175	17 435	18 766	20 043	21 757	23 647	24 888	22 940	23 961	24 972	25 933	26 332	26 469	25 897	25 903	26 347	27 090	27 700	27 027	28 668	38 921	40 573	GDP, PPP (constant 2021 USD)	
Nominal (current USD)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Nominal (current USD)	
Nominal GDP & its components (billion of current RUB) ¹¹																															Nominal GDP & its components (billion of current RUB) ¹¹	
Gross domestic product	0.6	1.4	19	172	611	1 429	7 306	8 944	10 831	13 208	17 027	21 610	26 917	33 248	41 277	38 807	46 309	60 114	68 103	72 986	79 030	83 087	85 616	91 843	103 862	109 608	107 658	135 295	155 189	176 414	Gross domestic product	
Household final consumption expenditure	N.A.	0.7	7.1	78	310	744	3 374	4 417	5 542	6 692	8 588	10 792	13 129	16 218	20 184	21 203	23 843	30 288	35 037	38 803	42 489	43 770	45 589	48 559	52 311	56 557	55 439	66 597	75 359	86 901	Household final consumption expenditure	
General government final consumption expenditure	N.A.	0.2	2.6	34	117	273	1 103	1 470	1 942	2 366	2 890	3 646	4 680	5 751	7 360	8 067	8 671	10 595	12 236	13 630	14 247	14 761	15 810	16 731	18 394	19 841	21 500	23 446	26 657	31 681	General government final consumption expenditure	
Gross fixed capital formation	N.A.	0.3	4.6	35	133	301	1 232	1 689	1 939	2 432	3 131	3 837	4 981	6 980	9 201	8 536	10 014	12 817	14 684	16 013	16 926	17 126	18 734	20 189	21 452	22 911	23 211	26 623	31 661	38 810	Gross fixed capital formation	
Stock change	N.A.	0.2	2.0	11	23	62	134	274	230	323	428	502	718	1 054	1 325	-1 191	458	1 767	2 038	972	770	1 277	1 040	1 492	1 312	1 928	2 041	4 772	2 410	8 835	Stock change	
Exports of goods and services	N.A.	0.2	12	66	170	418	3 219	3 300	3 814	4 656	5 860	7 607	9 079	10 029	12 924	10 842	13 529	16 865	18 325	18 863	21 426	23 849	22 136	23 963	31 982	31 165	27 477	40 446	43 493	39 680	Exports of goods and services	
Imports of goods and services	N.A.	0.2	9.2	52	142	370	1 756	2 166	2 646	3 154	3 774	4 648	5 653	7 162	9 111	7 954	9 790	12 011	13 787	14 920	16 352	17 163	17 691	19 090	21 590	22 793	22 010	27 956	23 640	32 357	Imports of goods and services	
Real GDP & its components (billion of 2019 RUB) ¹¹																															Real GDP & its components (billion of 2019 RUB) ¹¹	
Gross Domestic Product	72 791	69 118	59 074	53 953	47 172	45 217	48 910	51 405	53 821	57 750	61 908	65 870	71 271	77 329	81 350	75 005	78 380	81 751	85 040	86 533	87 170	85 451	85 616	87 179	89 627	91 597	89 166	94 172	92 223	96 840	Gross Domestic Product	
Household final consumption expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Household final consumption expenditure
General government final consumption expenditure	19 404	17 211	15 180	14 209	13 797	13 645	13 926	13 814	14 173	14 514	14 818	15 026	15 371	15 786	16 323	16 225	15 982	16 206	16 570	16 579	16 168	15 584	15 810	16 210	16 417	16 806	17 133	17 630	18 126	18 815	General government final consumption expenditure	
Gross fixed capital formation	36 355	30 720	17 971	13 334	9 867	9 127	7 787	8 582	8 822	10 048	11 315	12 514	14 766	17 867	19 761	16 916	17 914	19 544	20 755	21 153	20 701	18 501	18 734	19 606	19 727	19 918	19 116	20 847	21 537	23 217	Gross fixed capital formation	
Stock change	12 068	16 589	11 881	7 741	4 632	3 806	2 569	3 504	2 950	3 407	3 782	4 017	4 690	5 870	6 468	-1 440	1 972	4 518	4 641	2 934	1 848	1 400	1 040	1 435	979	1 274	1 154	2 290	455	3 150	Stock change	
Exports of goods and services	13 116	9 184	6 551	6 689	7 530	8 399	10 743	11 195	12 348	13 903	15 544	16 554	17 763	18 882	18 995	18 102	19 370	19 428	19 692	20 590	20 696	21 456	22 136	23 245	24 537	24 716	23 685	24 462	21 065	N.A.	Exports of goods and services	
Imports of goods and services	14 755	7 906	5 287	4 750	4 950	5 998	5 479	6 503	7 452	8 742	10 778	12 568	15 245	19 239	22 086	15 372	19 338	23 263	25 516	26 419	24 500	18 366	17 691	20 755	21 306	21 973	19 362	23 063	19 606	N.A.	Imports of goods and services	
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹	
Agriculture, Fishery and Forestry	4.6	4.6	4.9	5.2	5.2	5.0	4.8	5.1	5.0	4.6	4.3	4.0	3.8	3.6	3.6	4.0	3.3	3.6	3.5	3.5	3.6	3.8	3.8	3.8	3.8	3.8	3.9	3.7	4.0	3.9	Agriculture, Fishery and Forestry	
Industry	39.4	38.4	35.3	33.5	30.7	30.6	31.4	31.6	31.3	31.8	32.6	31.9	30.8	29.7	28.8	28.0	28.5	29.1	29.0	28.6	28.4	28.7	29.2	29.2	29.2	29.0	29.0	28.9	29.5	29.5	Industry	
Services, etc.	51.3	52.6	56.4	49.7	55.4	52.0	51.2	50.5	50.9	51.0	50.0	50.8	52.0	54.5	55.5	57.0	56.6	56.4	56.7	57.0	57.4	57.4	57.0	57.0	57.0	57.2	57.5	58.2	58.1	58.5	Services, etc.	
Industrial production index (2010=100) ¹²	N.A.	N.A.	N.A.	90.2	70.7	67.5	69.2	71.2	73.5	80.5	86.9	91.4	97.2	103.8	104.4	93.2	100.0	105.0	108.5	110.5	113.2	119.1	121.2	125.7	130.1	134.5	131.7	138.7	N.A.	0.0	Industrial production index (2010=100) ¹²	
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹	
Exports, f.o.b.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Exports, f.o.b.	
Imports, c.i.f.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Imports, c.i.f.	
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²	
Trade balance	N.A.	N.A.	N.A.	N.A.	18.0	20.3	57.1	45.2	43.6	55.8	83.6	116.2	134.3	123.4	177.6	113.2	147.0	196.9	191.7	180.6	188.9	148.4	90.2	114.6	195.1	165.8	93.4	190.3	315.6	0.0	Trade balance	
Current account	N.A.	N.A.	N.A.	N.A.	8.9	7.4	45.4	32.1	27.5	33.1	58.6	84.4	92.3	72.2	103.9	50.4	67.5	97.3	71.3	33.4	57.5	67.8	24.5	32.2	115.7	65.6	35.4	122.1	237.7	0.0	Current account	
Overall balance	N.A.	N.A.	N.A.	N.A.	-1.6	20.7	27.0	20.2	17.8	35.7	52.4	70.0	96.2	158.7	-35.8	9.8	45.9	21.3	40.4	-13.2	-115.5	-1.2	13.6	20.0	36.1	68.4	-17.6	122.1	N.A.	0.0	Overall balance	
Foreign exchange rate (RUB/USD) ¹¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Foreign exchange rate (RUB/USD) ¹¹	
PPP conversion factor, GDP (RUB/USD) ¹¹	0.00	0.00	0.02	0.18	0.72	1.72	7.30	8.32	9.27	9.87	11.56	12.74	12.62	13.98	14.34	14.02	15.82	18.44	19.57	19.51	21.00	23.56	24.19	24.12	24.54	24.84	24.49	27.25	25.83	27.24	PPP conversion factor, GDP (RUB/USD) ¹¹	
Price Indices																															Price Indices	
GDP Deflator (2016=100) ¹³	0.0	0.0	0.0	0.3	1.3	3.2	14.9	17.4	20.1	22.9	27.5	32.8	37.8	43.0	50.7	51.7	59.1	73.5	80.1	84.3	90.7	97.2	100.0	105.3	115.9	119.7	120.7	143.7	168.3	182.2	GDP Deflator (2016=100) ¹³	
Producer Price Index (2010=100) ¹²	N.A.	N.A.	0.0	0.4	1.9	6.3	27.1	32.3	35.6	41.5	51.1	61.7	69.3	79.1	96.0	89.1	100.0	117.7	125.2	129.6	137.6	156.6	163.4	175.6	197.2	201.1	193.6	241.0	270.1	0.0	Producer Price Index (2010=100) ¹²	
Consumer Price Index (2010=100) ¹²	N.A.	N.A.	0.1	0.5	2.1	6.3	30.8	37.4	43.3	49.2	54.5	61.4	67.4	73.5	83.8	93.6	100.0	108.4	113.9	121.6	131.2	151.5	162.2	168.2	173.0	180.8	186.9	199.4	N.A.	0.0	Consumer Price Index (2010=100) ¹²	
Growth rate (%) ¹																																

Energy prices in Russia
WHOLESALE PRICES ¹

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	RUB / US Dollar	30.37	29.38	30.84	31.84	38.38	60.94	67.06	58.34	62.67	64.74	72.10	73.65	69.77	85.48
Coal and Coal Products															
Coking Coal	RUB/tonne	5 920	6 505	4 523	4 045	4 225	5 524	8 524	9 552	11 029	7 716	6 587	22 584	11 185	17 350
Anthracite	RUB/tonne					7 165	7 262	9 375	11 019	11 849	14 389	9 231	13 865	12 325	14 713
Other bituminous coal															
Sub-bituminous Coal															
Lignite	RUB/tonne	895	907	915	1 015	1 019	1 114	1 181	1 227	1 301	1 462	1 545	1 619	1 554	1 832
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil	RUB/tonne	11 045	12 417	12 797	14 414	9 832	12 325	18 180	22 697	19 869	25 402	24 554	38 010	21 032	42 992
Natural Gas Liquids															
Ethane															
LPG ²	RUB/tonne			29 752	20 731	24 285	16 666	17 409	19 589	22 476	25 962	28 888	47 052	24 323	41 163
Naphtha															
Motor Gasoline	RUB/tonne	24 814	28 775	34 523	35 539	38 496	40 470	43 170	46 131	49 428	54 999	56 038	59 386	57 664	66 513
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	RUB/tonne	21 378	31 587	30 517	31 509	32 031	35 097	35 428	42 054	49 310	50 640	42 799	62 619	77 736	92 223
Other Kerosene															
Gas/Diesel Oil	RUB/tonne	24 157	30 488	34 075	36 275	36 622	40 015	39 721	46 998	57 707	56 908	53 316	65 067	71 801	78 491
Fuel Oil	RUB/tonne	12 058	13 856	12 716	12 357	11 462	7 099	12 431	16 997	22 154	11 923	17 749	31 221	15 316	30 062
White Spirit SBP															
Lubricants ³	RUB/tonne	43 633	51 201	50 014	53 246	61 600	87 691	65 834	84 119	78 569	71 545	85 550	117 724	120 035	101 417
Bitumen ⁴	RUB/tonne	8 494	16 989	12 850	7 645	12 546	5 499	8 287	10 018	12 255	11 602	15 722	29 196	15 380	...
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	RUB/1000 m ³	3 081	3 562	4 062	4 638	4 666	5 205	5 055	5 137	5 319	5 339	5 466	5 969	6 588	6 730
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity	RUB/MWh	1 539	1 914	1 933	2 149	2 103	2 189	2 253	2 579	2 582	2 640	2 661	2 867	3 207	3 232
Other energy															
Charcoal															

1) The purchase price by industrial organizations, at the end of the period, rubles.
2) Propane and butane are liquefied.
3) Lubricating oils.
4) Road oil bitumen.
... The data is not posted in order to ensure the confidentiality of primary statistical data received from organizations, in accordance with Federal Law No. 282-FZ of November 29, 2007
"On Official Statistical Accounting and the System of State Statistics in the Russian Federation" (par. 5 of art.4; Part 1 of art.9)

CONSUMER PRICES ¹

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	RUB / US Dollar	30.37	29.38	30.84	31.84	38.38	60.94	67.06	58.34	62.67	64.74	72.10	73.65	69.77	85.48
Coal and Coal Products															
Coking Coal															
Anthracite	RUB/tonne		1 920												
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel ²	RUB/tonne	3 036	1 920	2 177	2 322	2 214	2 760	3 070	3 109	2 900	2 970	2 927	3 311	3 753	3 801
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG															
LPG (transport)															
Naphtha															
Motor Gasoline (regular) ³	RUB/L	25.29	28.45	30.69	32.66	35.21	36.91	38.34	41.01	44.83	45.74	47.01	50.98	51.35	54.87
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil	RUB/L	23.10	27.83	30.85	33.34	34.44	35.56	36.66	40.24	46.68	47.73	48.72	53.87	58.37	64.37
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	RUB/month - person	43.81	48.32	55.36	63.63	63.89	67.56	68.24	73.04	75.59	77.94	80.58	83.87	93.45	92.96
Liquefied Natural Gas	RUB/month - person	165.79	182.05	210.85	241.51	242.74	254.52	275.23	278.02	273.55	291.32	300.28	306.22	360.06	350.21
Compressed natural gas	RUB/50 L	466.26	494.37	544.28	614.80	651.44	665.59	668.55	674.27						
Electricity															
Industrial															
Commercial															
Residential ⁴	RUB/100 kWh	232.03	249.69	269.02	302.64	314.95	333.42	359.02	371.44	387.16	400.64	415.72	425.42	481.45	479.10
Others ⁵	RUB/100 kWh	166.83	184.99	190.65	214.32	226.63	245.82	260.29	269.04	280.42	294.45	301.25	320.83	361.77	357.49

1) At the end of the period, rubles.
2) Coal.
3) Gasoil AI-95 and higher.
4) In apartments without electric stoves.
5) In apartments with electric stoves.

Singapore

Energy balance table of Singapore

2023

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production															5.2		13	13		30	18
Import	14		1 999	3 611	686	25	368	1 827	38	667	443						3.8			6 071	3.8
Export			- 34	-3 154	-1 284	- 120	- 760	- 538	-1.7	- 451										-3 188	
International marine bunkers				-1 530			- 159	-1 371												-1 530	
International aviation bunkers				- 298		- 298														- 298	
Stock changes			11	28	13		1.8	14			-2.2									37	
Total primary energy supply	14		1 976	-1 343	- 584	- 393	- 550	- 68	36	216	440				5.2		16	13		1 121	22
Transfers			183	- 183			- 26	- 12		- 146											
Total transformation sector	-9.3		-1 777	1 707	300	393	465	104	28	416	- 385				-5.2		- 16	- 13	207	- 292	- 22
Main activity producers	-9.3			-0.7				-0.6			- 337				-5.2		- 16	- 13	190	- 191	- 22
Autoproducers				-3.2				-2.3		-0.9	- 47								16	- 34	
Gas processing																					
Petroleum refineries			-1 777	1 711	300	393	465	107	28	417										- 66	
Coal transformation																					
Other transformation																					
Losses & own use				- 64						- 64	-0.5								-6.0	- 70	
Discrepancy			- 382	275	322		167	- 15	- 59	- 139	7.0								-1.1	- 101	
Total final consumption	4.8			391	37		56	8.4	5.9	283	62								200	658	
Total final energy consumption	4.8			206	37		56	8.4	5.9	98	62								200	472	
Industry sector	4.8			113			5.4	8.4	1.4	98	56								74	248	
Mining and quarrying																					
Construction											0.2								1.5	1.8	
Iron and steel																					
Chemical & petrochemical				99				4.7		94										99	
Non-ferrous metals																					
Non-metallic minerals																					
Transportation equipment																					
Machinery																					
Food, beverages and tobacco																					
Pulp, paper and printing																					
Wood and wood products																					
Textiles and leather																					
Non-specified industry	4.8			14			5.4	3.7	1.4	3.5	55								73	147	
Transport sector				88	37		51				0.1								11	99	
Domestic air transport																					
Road				83	37		46				0.1								1.2	85	
Rail																			9.7	9.7	
Inland waterways				5.1			5.1													5.1	
Non-specified transport																					
Other sector				4.5					4.5		6.5								114	125	
Residential				1.1					1.1		2.6								29	33	
Commerce and public services				3.4					3.4		3.9								85	92	
Agriculture																					
Fishery																					
Non-specified																			0.6	0.6	
Non-energy				185						185										185	
Electricity and heat output																					
Electricity generated (GWh)	540			156							53 687				1 438		945	618		57 384	2 383
Electricity plants	540			156							53 687				1 438		945	618		57 384	2 383
CHP plants																					
Heat generated (PJ)																					
Heat plants																					
CHP plants																					

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

3. Data are based on Singapore Energy Statistics publications, but disaggregations were estimated by ESTO using the IEA energy balances.

Energy balance table of Singapore

2022

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production															3.6		13	13		29	16
Import	17		2 081	3 539	677	19	376	1 860	17	589	441						3.5			6 082	3.5
Export			- 41	-3 001	-1 189	- 144	- 706	- 577	-3.9	- 380										-3 042	
International marine bunkers				-1 501			- 163	-1 338												-1 501	
International aviation bunkers				- 218		- 218														- 218	
Stock changes			- 14	- 23	- 18		1.3	-6.1			-0.8									- 37	
Total primary energy supply	17		2 026	-1 204	- 529	- 343	- 492	- 61	13	209	441				3.6		16	13		1 313	20
Transfers			189	- 189			- 31	- 15		- 143											
Total transformation sector	- 11		-1 800	1 734	315	343	488	101	30	456	- 366				-3.6		- 16	- 13	206	- 269	- 20
Main activity producers	- 11			-9.8			-0.5	-9.3			- 321				-3.6		- 16	- 13	190	- 184	- 20
Autoproducers				-3.2				-2.3		-0.9	- 45								16	- 32	
Gas processing																					
Petroleum refineries			-1 800	1 747	315	343	489	113	30	457										- 53	
Coal transformation																					
Other transformation																					
Losses & own use				- 67						- 67	-0.5								-6.2	- 74	
Discrepancy			- 415	139	254		96	- 16	- 37	- 159	-8.2								-1.7	- 286	
Total final consumption	6.7			413	40		61	9.0	5.7	297	66								198	683	
Total final energy consumption	6.7			216	40		61	9.0	5.7	100	66								198	486	
Industry sector	6.7			116			5.5	9.0	1.4	100	59								76	258	
Mining and quarrying																					
Construction											0.2								1.7	1.9	
Iron and steel																					
Chemical & petrochemical				101				5.0		96										101	
Non-ferrous metals																					
Non-metallic minerals																					
Transportation equipment																					
Machinery																					
Food, beverages and tobacco																					
Pulp, paper and printing																					
Wood and wood products																					
Textiles and leather																					
Non-specified industry	6.7			15			5.5	4.0	1.4	3.7	59								75	155	
Transport sector				96	40		56				0.1								10	106	
Domestic air transport																					
Road				91	40		50				0.1								0.9	92	
Rail																			9.5	9.5	
Inland waterways				5.3			5.3													5.3	
Non-specified transport																					
Other sector				4.3					4.3		6.5								111	122	
Residential				1.1					1.1		2.8								29	32	
Commerce and public services				3.2					3.2		3.8								82	89	
Agriculture																					
Fishery																					
Non-specified																			0.7	0.7	
Non-energy				197						197										197	
Electricity and heat output																					
Electricity generated (GWh)	596			1 407							52 250				989		1 089	784	57 114	2 078	Electricity generated (GWh)
Electricity plants	596			1 407							52 250				989		1 089	784	57 114	2 078	Electricity plants
CHP plants																					CHP plants
Heat generated (PJ)																					Heat generated (PJ)
Heat plants																					Heat plants
CHP plants																					CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.
3. Data are based on Singapore Energy Statistics publications, but disaggregations were estimated by ESTO using the IEA energy balances.

Major energy indicators of Singapore

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																										Total	
Primary energy supply	483	789	782	892	886	1 071	1 286	1 006	1 056	942	926	912	826	839	1 121	1 100	1 179	1 193	1 173	1 265	1 255	1 197	1 384	1 366	1 313	1 121	Primary energy supply
Production	2.9	8.5	8.5	16	16	17	17						25	25	25	27	27	26	28	27	26	27	25	25	29	30	Production
Import	2 571	3 387	3 455	3 599	3 717	4 060	4 692	4 818	5 113	5 299	5 797	6 114	6 463	6 707	6 602	6 704	6 817	7 257	7 406	7 951	7 343	6 897	6 345	6 256	6 082	6 071	Import
Export	-1 544	-2 030	-1 746	-1 738	-1 879	-2 030	-2 248	-2 701	-2 822	-3 028	-3 335	-3 522	-3 726	-3 952	-3 549	-3 573	-3 627	-3 855	-4 159	-4 297	-3 839	-3 670	-3 202	-3 173	-3 042	-3 188	Export
Final energy consumption	130	160	234	240	249	262	274	298	309	324	332	339	374	386	386	405	424	449	444	464	448	467	450	474	486	472	Final energy consumption
Industry	25	31	91	93	99	113	122	135	141	148	152	150	178	183	183	206	219	224	214	241	225	240	236	242	258	248	Industry
Transport	57	79	73	75	74	75	76	82	85	88	90	98	101	108	105	99	102	119	122	114	114	112	102	113	106	99	Transport
Residential	12	15	26	27	27	28	27	25	25	25	25	26	27	27	27	28	28	30	31	30	30	31	34	34	32	33	Residential
Commerce & public services	34	33	40	42	46	45	46	51	56	61	63	62	65	67	69	72	73	75	76	77	79	82	78	83	89	92	Commerce & public services
Others	1.4	1.8	2.9	3.0	2.8	2.7	2.7	4.8	2.0	1.8	1.7	1.5	1.9	1.3	1.1	1.0	0.9	1.1	1.1	1.1	1.1	1.0	1.0	0.8	0.7	0.6	Others
Coal and peat																											Coal and peat
Primary energy supply							0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	1.0	11	16	17	18	38	20	19	18	19	17	14	Primary energy supply
Production																											Production
Import							0.2	0.3	0.2	0.3	0.2	0.1	0.3	0.3	1.0	11	17	17	18	38	20	19	18	19	17	14	Import
Export															-0.1	-0.3											Export
Transformation sector															-0.1	-5.6	-9.5	-10	-11	-12	-12	-12	-10	-12	-11	-9.3	Transformation sector
Power generation															-0.1	-5.6	-9.5	-10	-11	-12	-12	-10	-12	-11	-11	-9.3	Power generation
Final energy consumption								0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.9	5.4	6.8	6.8	7.0	25	7.6	7.4	7.6	7.6	6.7	4.8	Final energy consumption
Industry								0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.9	5.4	6.8	6.8	7.0	25	7.6	7.4	7.6	7.6	6.7	4.8	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply	0.9	0.5		0.3	0.4	0.3														0.1	0.2		0.1				Primary energy supply
Production																											Production
Import	1.5	1.0		0.3	0.4	0.3															0.1	0.2		0.1			Import
Export	-0.6	-0.5																									Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption	0.9	0.5		0.3	0.4	0.3															0.1	0.2		0.1			Final energy consumption
Industry	0.9	0.5		0.3	0.4	0.3															0.1	0.2		0.1			Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	1 745	2 199	1 786	1 743	1 736	1 992	2 363	2 483	2 403	2 336	2 293	1 996	1 890	1 947	2 148	1 977	2 004	2 045	2 198	2 380	2 358	2 231	1 934	1 980	2 026	1 976	Primary energy supply
Production																											Production
Import	1 823	2 199	1 786	1 743	1 736	1 992	2 363	2 520	2 440	2 371	2 329	2 055	1 929	1 971	2 185	2 041	2 058	2 094	2 236	2 452	2 394	2 278	1 970	2 014	2 081	1 999	Import
Export	-0.8	-0.3		-0.3				-37	-37	-35	-36	-39	-36	-37	-40	-49	-47	-48	-44	-53	-44	-40	-40	-52	-41	-34	Export
Transformation sector	-1 745	-2 199	-1 786	-1 743	-1 736	-1 992	-2 363	-2 483	-2 403	-2 336	-2 293	-1 973	-2 231	-2 358	-2 373	-2 183	-1 985	-2 078	-2 137	-2 294	-2 270	-2 126	-1 771	-1 831	-1 800	-1 777	Transformation sector
Petroleum refineries	-1 745	-2 199	-1 786	-1 743	-1 736	-1 992	-2 363	-2 483	-2 403	-2 336	-2 293	-1 973	-2 231	-2 358	-2 373	-2 183	-1 985	-2 078	-2 137	-2 294	-2 270	-2 126	-1 771	-1 831	-1 800	-1 777	Petroleum refineries
Petroleum products																											Petroleum products
Primary energy supply	-1 266	-1 472	-1 060	-942	-988	-1 123	-1 314	-1 711	-1 599	-1 663	-1 643	-1 381	-1 392	-1 438	-1 384	-1 288	-1 261	-1 296	-1 481	-1 593	-1 570	-1 508	-1 026	-1 107	-1 204	-1 343	Primary energy supply
Import	747	1 133	1 622	1 781	1 860	1 883	2 108	2 064	2 421	2 658	3 192	3 781	4 231	4 431	4 085	4 278	4 346	4 748	4 744	5 046	4 509	4 172	3 926	3 775	3 539	3 611	Import
Export	-1 543	-2 030	-1 746	-1 738	-1 879	-2 030	-2 248	-2 663	-2 785	-2 993	-3 299	-3 483	-3 690	-3 914	-3 509	-3 524	-3 580	-3 807	-4 115	-4 243	-3 795	-3 630	-3 162	-3 120	-3 001	-3 154	Export
Transformation sector	1 545	1 790	1 466	1 374	1 455	1 832	2 205	2 306	2 225	2 167	2 136	1 826	2 027	2 155	2 216	2 105	1 931	2 018	2 094	2 208	2 203	2 081	1 730	1 788	1 734	1 707	Transformation sector
Power generation	-185	-228	-276	-249	-203	-133	-106	-82	-86	-79	-68	-74	-93	-93	-68	-30	-10	-84	-5.1	-7.2	-4.2	-3.6	-3.9	-8.1	-13	-3.9	Power generation
Petroleum refineries	1 733	2 021	1 747	1 628	1 663	1 971	2 316	2 388	2 311	2 246	2 205	1 900	2 120	2 249	2 284	2 135	1 941	2 026	2 099	2 215	2 207	2 085	1 734	1 796	1 747	1 711	Petroleum refineries
Final energy consumption	79	90	131	135	139	141	145	149	155	162	167	163	175	182	179	183	193	215	205	200	197	211	191	205	216	206	Final energy consumption
Industry	4.6	5.5	53	56	59	62	65	67	71	74	77	66	77	79	79	89	96	101	89	91	90	106	96	98	116	113	Industry
Transport	56	78	72	74	73	74	75	78	81	83	85	92	93	99	96	90	93	110	112	104	103	101	92	103	96	88	Transport
Residential	1.8		3.9	3.6	2.4	2.2	1.9	1.6	1.5	1.3	1.3	1.1	0.9	1.0	1.0	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	Residential
Commerce & public services		6.8	1.9	2.1	4.4	3.5	3.8	2.6	2.5	4.0	3.9	3.3	3.5	2.9	2.9	3.7	3.3	3.3	3.2	3.1	3.1	2.9	2.9	3.1	3.2	3.4	Commerce & public services
Others	17																										Others
Gas																											Gas
Primary energy supply		53	47	74	121	184	220	233	252	269	276	279	302	305	331	372	391	398	407	410	418	425	429	446	441	440	Primary energy supply
Production																											Production
Import		53	47	74	121	184	220	233	252	269	276	279	302	305	331	372	394	396	405	413	417	425	427	445	441	443	Import
Export																											Export
Transformation sector	2.6	-49	-42	-70	-116	-171	-202	-199	-212	-227	-235	-239	-250	-257	-282	-318	-338	-342	-350	-352	-354	-364	-360	-373	-366	-385	Transformation sector
Power generation		-53	-47	-74	-121	-176	-207	-199	-212	-227	-235																

Major economic indicators of Singapore

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	3.05	3.14	3.23	3.31	3.42	3.52	4.03	4.14	4.18	4.11	4.17	4.27	4.40	4.59	4.84	4.99	5.08	5.18	5.31	5.40	5.47	5.54	5.61	5.61	5.64	5.70	5.69	5.45	5.64	5.92	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	71	76	81	90	100	107	141	139	144	151	166	178	194	212	216	216	248	263	275	288	299	308	319	334	346	350	336	366	383	392	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	114	121	129	144	160	172	225	223	232	242	266	286	312	340	346	347	397	422	440	462	480	494	512	535	554	562	540	588	747	767	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	36	45	52	61	74	88	96	90	93	98	115	128	149	181	194	194	240	279	295	308	315	308	319	343	377	377	348	424	498	505	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	23 273	24 133	24 973	27 140	29 220	30 380	34 890	33 598	34 599	36 710	39 857	41 798	44 159	46 179	44 602	43 332	48 752	50 714	51 679	53 299	54 682	55 646	56 907	59 440	61 277	61 386	59 176	67 176	67 949	66 167	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	37 326	38 706	40 054	43 529	46 865	48 725	55 959	53 886	55 492	58 878	63 925	67 039	70 826	74 065	71 535	69 499	78 192	81 338	82 887	85 484	87 703	89 248	91 271	95 334	98 280	98 455	94 910	107 741	132 469	129 555	GDP, PPP (constant 2021 USD)
Nominal (current USD)	11 862	14 502	16 136	18 290	21 552	24 915	23 853	21 700	22 160	23 730	27 608	29 961	33 768	39 433	40 009	38 927	47 237	53 891	55 548	56 967	57 565	55 646	56 896	61 165	66 837	66 070	61 274	77 710	88 429	85 412	Nominal (current USD)
Nominal GDP & its components (billion of current SGD) ¹¹																															Nominal GDP & its components (billion of current SGD) ¹¹
Gross domestic product	70	79	85	98	113	124	166	161	166	170	194	213	236	273	274	282	327	351	369	385	399	423	441	474	508	514	481	569	687	679	Gross domestic product
Household final consumption expenditure	31	34	37	43	48	51	69	74	77	77	82	85	90	100	109	110	119	129	138	144	150	157	161	167	175	182	155	168	194	214	Household final consumption expenditure
General government final consumption expenditure	6.7	7.3	7.5	8.8	9.2	10	17	19	20	19	20	21	23	25	28	28	32	32	33	38	38	43	45	48	51	53	59	61	65	68	General government final consumption expenditure
Gross fixed capital formation	22	26	30	34	38	41	54	50	44	42	47	49	55	66	77	81	84	89	97	106	112	115	115	120	114	117	100	122	142	152	Gross fixed capital formation
Stock change	2.8	0.7	0.3	2.5	-0.5	0.9	4.7	-5.3	-2.8	- 13	-2.7	-3.6	-1.7	-3.6	6.0	-4.1	6.8	5.0	10	9.4	5.2	-7.9	1.9	9.7	12	9.1	8.7	9.2	11	-7.8	Stock change
Exports of goods and services	125	132	137	158	187	225	312	294	305	345	416	479	539	580	627	539	647	714	725	751	766	755	726	813	902	903	875	1 049	1 277	1 232	Exports of goods and services
Imports of goods and services	118	122	127	149	169	205	292	268	274	297	365	415	466	495	571	473	561	618	636	662	672	640	610	687	752	751	725	849	1 012	978	Imports of goods and services
Real GDP & its components (billion of 2019 SGD) ¹¹																															Real GDP & its components (billion of 2019 SGD) ¹¹
Gross Domestic Product	97	104	111	124	137	147	193	191	199	208	228	245	267	291	297	297	340	361	377	396	411	423	439	459	475	481	463	504	527	538	Gross Domestic Product
Household final consumption expenditure	45	48	51	56	61	63	87	94	97	98	103	107	112	120	125	125	130	135	140	144	150	157	162	167	174	179	156	166	182	192	Household final consumption expenditure
General government final consumption expenditure	9.4	10	10	12	12	13	22	23	24	25	25	26	28	30	32	32	35	35	35	39	40	43	45	46	48	49	56	58	57	58	General government final consumption expenditure
Gross fixed capital formation	25	29	32	35	39	43	60	57	52	49	54	56	61	71	79	83	88	94	102	108	113	115	116	122	116	118	101	119	129	130	Gross fixed capital formation
Stock change	2.5	0.6	0.2	2.1	-0.4	0.7	3.5	-4.0	-2.1	-9.5	-2.0	-3.3	-1.5	-3.6	5.8	-4.1	6.0	4.2	8.9	8.0	4.4	-7.9	1.7	8.5	10.0	7.8	7.6	7.6	8.7	-6.6	Stock change
Exports of goods and services	98	106	114	134	158	192	273	263	282	321	383	432	480	521	548	509	599	645	654	694	720	755	755	812	876	878	882	985	988	1 059	Exports of goods and services
Imports of goods and services	89	95	103	122	142	174	256	239	252	277	340	379	418	449	498	448	521	551	565	602	619	640	641	693	744	744	735	824	832	892	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Agriculture, Fishery and Forestry
Industry	26.2	26.3	25.9	25.4	26.2	26.8	27.5	25.3	25.6	24.8	25.1	25.3	25.8	25.4	24.7	24.8	26.9	27.0	26.4	25.7	25.7	24.3	24.1	24.6	25.1	24.5	25.4	26.5	26.5	25.5	Industry
Services, etc.	64.9	65.0	65.5	66.1	65.3	64.7	64.4	67.3	67.2	68.1	67.8	67.6	67.0	67.1	68.8	68.7	66.8	67.1	67.7	68.9	69.1	70.0	69.6	69.0	68.8	69.4	69.1	68.0	68.5	69.3	Services, etc.
Industrial production index (2010=100) ¹²	27.4	28.9	29.6	32.6	36.9	40.7	57.6	50.8	55.1	56.8	64.7	70.8	79.3	84.0	80.5	77.1	100.0	107.8	108.2	110.0	112.9	107.1	111.1	122.6	131.3	129.4	139.1	157.6	161.8	155.0	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	52.7	59.0	63.5	74.0	96.8	118.3	137.8	121.8	125.2	159.9	198.6	229.6	271.8	299.3	338.2	269.8	351.9	409.5	408.4	410.3	415.4	351.6	330.5	373.4	413.0	390.8	362.5	457.4	515.8	476.3	Exports, f.o.b.
Imports, c.i.f.	60.9	66.3	72.2	85.2	102.7	124.5	134.5	116.0	116.4	136.2	173.6	200.0	238.7	263.2	319.8	245.8	310.8	365.8	379.7	373.0	377.9	297.1	283.3	327.9	370.9	359.3	329.8	406.2	475.6	423.4	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	-1.6	-0.1	-1.8	-2.7	1.4	10.5	15.8	20.6	22.5	36.8	40.6	47.6	52.3	58.1	41.4	47.9	63.2	75.6	75.0	78.8	86.7	92.6	89.9	100.9	104.4	97.8	106.4	125.7	136.5	157.2	Trade balance
Current account	3.1	4.9	5.9	4.2	11.4	14.5	10.6	13.0	13.8	23.7	22.2	29.7	40.0	49.1	29.2	31.8	55.0	62.1	52.1	48.3	56.5	57.6	56.7	62.3	59.2	60.9	57.3	76.4	90.2	89.4	Current account
Overall balance	7.0	7.2	7.7	2.9	2.5	8.9	4.8	-0.1	2.7	9.4	14.1	14.1	23.1	20.7	16.0	9.0	37.7	17.0	27.7	16.2	9.2	5.2	-2.0	29.3	12.9	-11.1	74.8	67.9	-112.4	60.1	Overall balance
Foreign exchange rate (SGD/USD) ¹¹	1.81	1.73	1.63	1.62	1.53	1.42	1.72	1.79	1.79	1.74	1.69	1.66	1.59	1.51	1.41	1.45	1.36	1.26	1.25	1.25	1.27	1.37	1.38	1.38	1.35	1.36	1.38	1.34	1.38	1.34	Foreign exchange rate (SGD/USD) ¹¹
PPP conversion factor, GDP (SGD/USD) ¹¹	0.97	0.98	0.97	0.98	1.00	1.01	0.94	0.90	0.88	0.85	0.86	0.85	0.84	0.86	0.84	0.86	0.85	0.85	0.85	0.86	0.86	0.88	0.88	0.89	0.90	0.88	0.84	0.88	0.86	0.80	PPP conversion factor, GDP (SGD/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2015=100) ¹³	72.3	75.5	76.6	79.2	81.9	84.5	85.7	84.2	83.4	81.9	85.2	86.8	88.4	93.6	92.3	95.0	96.1	97.2	97.7	97.3	97.0	100.0	100.5	103.4	107.0	106.8	103.9	113.0	130.5	126.1	GDP Deflator (2015=100) ¹³
Wholesale Price Index (2010=100) ¹²	92.9	89.1	85.2	81.5	81.1	81.1	87.5	86.0	83.3	85.0	89.3	97.9	102.8	103.1	110.9	95.5	100.0	108.4	108.9	106.0	102.5	86.8	80.7	86.4	92.0	89.0	81.3	N.A.	111.1	103.6	Wholesale Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	71.8	74.3	76.0	77.7	80.1	81.5	85.2	86.0	85.7	86.1	87.6	88.0	88.8	90.7	96.7	97.3	100.0	105.2	110.1	112.7	113.8	113.2	112.6	113.3	113.8	114.4	114.2	116.8	124.0	130.0	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																															Growth rate (%) ¹³
Real GDP	9.8	6.7	6.6	11.5	11.1	7.2	9.0	-1.1	3.9	4.5	9.9	7.4	9.0	9.0	1.9	0.1	14.5	6.2	4.4	4.8	3.9	3.0	3.6	4.5	3.6	1.3	-3.9	8.9	3.8	1.8	Real GDP
Population	4.0	2.9	3.0	2.6	3.2	3.1	1.7	2.7	0.9	-1.5	1.3	2.4	3.2	4.3	5.5	3.1	1.8	2.1	2.5	1.6	1.3	1.2	1.3	0.1	0.5	1					

Energy prices in Singapore
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	SGD / US Dollar	1.36	1.26	1.25	1.25	1.27	1.37	1.38	1.38	1.35	1.36	1.38	1.34	1.34	1.34
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG															
LPG (transport)															
Naphtha															
Motor Gasoline (regular)															
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil															
Fuel Oil															
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Town Gas	SGD cents/kWh	18.73	18.93	21.61	21.11	21.02	18.37	16.62	17.68	18.80	18.85	16.99	18.20	21.92	21.96
Compressed natural gas															
Electricity															
Industrial															
Commercial															
Residential	SGD cents/kWh	23.48	26.00	27.95	26.25	25.59	21.73	18.90	20.65	22.87	23.56	22.07	22.70	28.30	28.20
Others															

Chinese Taipei

Energy balance table of Chinese Taipei

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production			0.1								3.0	14	194	0.8	46	22	41	27		350	125	Production
Import	1 425	4.3	1 777	390	6.3	3.0	0.8	22	52	306	1 003									4 599		Import
Export		-1.4	- 27	- 589	- 129	- 27	- 321	- 47		- 64										- 618		Export
International marine bunkers				- 52			-5.0	- 47												- 52		International marine bunkers
International aviation bunkers				- 108		- 108														- 108		International aviation bunkers
Stock changes	30	0.7	4.1	-6.7	4.2	-1.7	-7.0	-7.0	1.0	3.8	- 13									16		Stock changes
Total primary energy supply	1 455	3.6	1 754	- 366	- 119	- 134	- 332	- 79	53	245	993	14	194	0.8	46	22	41	27		4 187	125	Total primary energy supply
Transfers			34	- 11	86	-3.9	0.9	- 20	0.1	- 74										23		Transfers
Total transformation sector	-1 342	108	-1 782	1 792	346	159	535	113	41	597	- 769	- 14	- 194	-0.8	- 46	- 22	- 33	- 23	1 097	-1 230	- 117	Total transformation sector
Main activity producers	- 802			- 33			-2.2	- 31			- 770	- 14	- 194	-0.6	- 15	- 22		-2.2	940	- 913	- 52	Main activity producers
Autoproducers	- 283	- 30	-2.2	-6.4			-0.1	-2.0	-0.2	-4.1	-7.8			-0.2	- 31		- 33	- 20	157	- 256	- 65	Autoproducers
Gas processing											9.3									9.3		Gas processing
Petroleum refineries			-1 780	1 832	346	159	537	146	42	601										52		Petroleum refineries
Coal transformation	- 258	138																		- 120		Coal transformation
Other transformation											-1.3									-1.3		Other transformation
Losses & own use		- 44	-0.8	- 91	-0.1				-6.9	- 84	- 24								- 111	- 271		Losses & own use
Discrepancy	-5.5	-0.8	2.0	-8.7	4.1	- 10	5.9	9.5	-4.2	- 14	-0.2						-0.9	0.9	4.6	-8.6	-0.9	Discrepancy
Total final consumption	107	67	6.9	1 315	317	11	210	23	84	670	200						7.1	5.7	991	2 700	7.1	Total final consumption
Total final energy consumption	106	63		616	317	11	210	23	54	0.6	200						7.1	5.7	991	1 988	7.1	Total final energy consumption
Industry sector	106	63		28	0.2	0.1	4.2	16	7.2	0.4	151						1.3	1.5	603	954	1.3	Industry sector
Mining and quarrying				0.2			0.1	0.1	0.1										1.0	1.2		Mining and quarrying
Construction				0.6			0.4	0.2											4.3	4.9		Construction
Iron and steel	0.1	63		3.0			0.2	1.8	0.6	0.4	25								56	147		Iron and steel
Chemical & petrochemical	48			10			2.1	5.6	2.7		42								163	264		Chemical & petrochemical
Non-ferrous metals				1.2				0.9	0.3		3.2								9.9	14		Non-ferrous metals
Non-metallic minerals	32			5.2			0.5	4.5	0.3		13								19	69		Non-metallic minerals
Transportation equipment				1.0	0.1		0.2	0.2	0.4		1.4								9.1	12		Transportation equipment
Machinery	0.5			1.6		0.1	0.2	0.3	1.0		23								264	289		Machinery
Food, beverages and tobacco	0.3			2.0			0.5	0.6	0.8		12						0.7		19	34	0.7	Food, beverages and tobacco
Pulp, paper and printing	17			1.2				1.0	0.2		2.6						0.6	1.5	15	38	0.6	Pulp, paper and printing
Wood and wood products				0.1				0.1			0.2								1.3	1.5		Wood and wood products
Textiles and leather	7.3			1.2				0.9	0.3		8.1								16	33		Textiles and leather
Non-specified industry				0.9				0.5	0.4		20								26	47		Non-specified industry
Transport sector				488	315	2.9	167	1.8	0.4										6.7	494		Transport sector
Domestic air transport				2.9		2.9														2.9		Domestic air transport
Road				481	315		165		0.4										1.0	482		Road
Rail				0.3			0.3												5.6	5.9		Rail
Inland waterways				3.6			1.8	1.8												3.6		Inland waterways
Non-specified transport																			0.1	0.1		Non-specified transport
Other sector				100	1.8	8.1	38	5.1	47	0.1	49						5.8	4.2	381	540	5.8	Other sector
Residential				37					37		31								184	252		Residential
Commerce and public services				42	1.4	8.1	19	4.3	9.6	0.1	18						5.8	4.2	185	255	5.8	Commerce and public services
Agriculture				2.7	0.3		2.3				0.2								8.2	11		Agriculture
Fishery				18			17	0.8											3.6	21		Fishery
Non-specified																						Non-specified
Non-energy	1.3	4.6	6.9	699					29	670										712		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	119 173			3 776							111 630	7 014	17 802	23	12 910	6 238	2 099	1 762		282 428	28 284	Electricity generated (GWh)
Electricity plants	91 054			3 149							110 465	7 014	17 802	23	12 910	6 238	192			248 847	26 377	Electricity plants
CHP plants	28 120			627							1 164						1 907	1 762		33 580	1 907	CHP plants
Heat generated (PJ)	69			7							1						1	1		80	1	Heat generated (PJ)
Heat plants																						Heat plants
CHP plants	69			7							1						1	1		80	1	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Chinese Taipei

2022

	Petajoules																				
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products											
Production			0.1								3.2	21	259	0.9	38	13	35	29		400	108
Import	1 562	6.1	1 791	514	6.7	3.1	1.7	35	39	429	1 007									4 881	
Export		-1.5	- 29	- 669	- 142	- 37	- 357	- 65		- 67										- 700	
International marine bunkers				- 59			-5.7	- 53												- 59	
International aviation bunkers				- 76		- 76														- 76	
Stock changes	- 19	0.9	6.8	2.6	-0.1	1.8	4.4	-1.4	-0.1	-2.1	-2.3									- 12	
Total primary energy supply	1 543	5.5	1 769	- 287	- 136	- 108	- 357	- 85	38	360	1 008	21	259	0.9	38	13	35	29		4 435	108
Transfers			35	- 12	85	-0.5	-2.8	- 13	-1.7	- 79										23	
Total transformation sector	-1 377	122	-1 801	1 831	363	141	555	111	48	613	- 785	- 21	- 259	-0.9	- 38	- 13	- 24	- 22	1 127	-1 263	- 97
Main activity producers	- 833			- 37			-2.5	- 35		- 787	- 787	- 21	- 259	-0.8	-8.2	- 13		-2.1	982	- 980	- 43
Autoproducers	- 266	- 33	-2.6	-8.8			-0.1	-2.9	-0.2	-5.7	-6.8			-0.1	- 30		- 24	- 20	145	- 246	- 54
Gas processing											11									11	
Petroleum refineries			-1 799	1 877	363	141	558	149	48	619										78	
Coal transformation	- 279	155																		- 124	
Other transformation											-2.3									-2.3	
Losses & own use		- 48	-1.1	- 100	-0.1			-0.1	-7.9	- 92	- 22								- 124	- 295	
Discrepancy	- 45	-1.1	5.3	-8.0	3.2	- 22	12	17	-4.3	- 14	-2.3								1.7	- 49	
Total final consumption	120	78	7.4	1 423	315	10	208	30	73	787	199						11	6.8	1 005	2 851	11
Total final energy consumption	119	69		620	315	10	208	30	56	0.6	199						11	6.8	1 005	2 030	11
Industry sector	119	69		34	0.2	0.1	4.1	22	7.3	0.4	149						5.4	2.0	624	1 004	5.4
Mining and quarrying				0.3			0.1	0.1	0.1										1.0	1.3	
Construction				0.6			0.5	0.1											4.2	4.8	
Iron and steel	1.2	69		3.3			0.2	2.2	0.4	0.4	23								58	155	
Chemical & petrochemical	52			12			2.0	7.2	2.6		44								175	282	
Non-ferrous metals				1.5				1.2	0.3		3.5								8.1	13	
Non-metallic minerals	37			6.8			0.5	6.0	0.3		12								20	76	
Transportation equipment				0.8	0.1		0.1	0.1	0.4		1.6								10	13	
Machinery	0.4			2.0		0.1	0.2	0.5	1.2		23								265	290	
Food, beverages and tobacco	0.3			2.2			0.5	0.8	0.8		12						0.8		18	33	0.8
Pulp, paper and printing	19			1.6				1.4	0.2		2.5						4.5	2.0	15	45	4.5
Wood and wood products				0.1							0.2								1.4	1.6	
Textiles and leather	8.8			2.5				2.0	0.5		8.5								20	39	
Non-specified industry	0.1			1.1				0.6	0.5		19								30	49	
Transport sector				489	313	2.9	170	2.0	0.4										6.0	495	
Domestic air transport				2.9		2.9														2.9	
Road				481	313		167		0.4										0.7	481	
Rail				0.5			0.5												5.2	5.7	
Inland waterways				4.4			2.4	2.0												4.4	
Non-specified transport																			0.1	0.1	
Other sector				97	1.8	7.1	33	5.9	49	0.2	49						5.6	4.8	375	532	5.6
Residential				39					39		32								180	251	
Commerce and public services				40	1.4	7.1	16	5.1	9.9	0.2	17						5.6	4.8	183	250	5.6
Agriculture				2.8	0.3		2.4	0.1			0.2								8.1	11	
Fishery				15			15	0.7											3.7	19	
Non-specified																					
Non-energy	1.6	8.7	7.4	803					16	787										821	
Electricity and heat output																					
Electricity generated (GWh)	121 029			4 450							112 006	8 899	23 755	25	10 675	3 577	1 963	1 806		288 185	25 140
Electricity plants	94 128			3 613							111 060	8 899	23 755	25	10 675	3 577	37			255 769	23 213
CHP plants	26 901			836							946						1 927	1 806		32 416	1 927
Heat generated (PJ)	79			7							1						1	1		89	1
Heat plants																					
CHP plants	79			7							1						1	1		89	1

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Chinese Taipei

	Petajoules																									
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total																										
Primary energy supply	1 955	2 606	3 447	3 613	3 794	3 945	4 130	4 167	4 278	4 488	4 315	4 217	4 501	4 497	4 460	4 543	4 634	4 580	4 617	4 600	4 643	4 522	4 413	4 609	4 435	4 187
Production	447	451	502	483	525	526	534	533	531	541	544	548	551	560	552	564	566	504	471	363	420	478	454	422	400	350
Import	1 717	2 492	3 330	3 523	3 675	3 977	4 464	4 513	4 618	4 878	4 669	4 546	4 783	4 625	4 741	4 815	4 975	4 950	5 012	5 118	5 135	5 059	4 698	4 948	4 881	4 599
Export	- 23	- 72	- 99	- 185	- 258	- 419	- 561	- 652	- 623	- 737	- 718	- 787	- 679	- 584	- 712	- 734	- 731	- 708	- 727	- 717	- 771	- 820	- 546	- 599	- 700	- 618
Final energy consumption	1 063	1 398	1 744	1 745	1 826	1 868	1 940	1 978	2 003	2 008	1 920	1 860	1 989	2 015	1 986	2 008	2 009	2 000	2 045	2 041	2 036	2 017	2 027	2 076	2 030	1 988
Industry	511	649	835	822	874	889	926	933	968	995	932	874	982	1 003	992	1 012	1 000	979	1 000	1 000	1 018	995	989	1 061	1 004	954
Transport	277	407	470	471	488	489	508	522	520	502	474	479	496	503	494	493	497	507	521	516	502	505	509	483	495	494
Residential	120	171	225	225	231	238	247	257	259	260	260	255	259	257	255	252	253	256	260	260	251	249	250	245	251	252
Commerce & public services	109	127	175	186	191	206	211	223	224	226	225	227	228	227	219	223	231	230	236	238	234	236	249	256	250	255
Others	45	45	40	41	42	47	49	44	32	24	30	25	25	25	27	27	28	28	28	27	31	31	30	30	30	32
Coal and peat																										
Primary energy supply	440	670	1 142	1 200	1 299	1 385	1 447	1 478	1 540	1 613	1 548	1 485	1 594	1 652	1 611	1 648	1 661	1 609	1 629	1 653	1 661	1 630	1 529	1 634	1 543	1 455
Production	12	5.8	2.0																							
Import	471	728	1 129	1 216	1 285	1 358	1 498	1 492	1 543	1 616	1 578	1 450	1 586	1 655	1 596	1 655	1 651	1 629	1 616	1 659	1 640	1 662	1 560	1 666	1 562	1 425
Export																-0.1	-0.1									
Transformation sector	- 331	- 525	- 939	- 1 014	- 1 080	- 1 183	- 1 237	- 1 285	- 1 341	- 1 399	- 1 352	- 1 301	- 1 375	- 1 419	- 1 396	- 1 425	- 1 439	- 1 382	- 1 415	- 1 460	- 1 502	- 1 434	- 1 408	- 1 456	- 1 377	- 1 342
Power generation	- 208	- 389	- 745	- 810	- 874	- 976	- 1 026	- 1 084	- 1 135	- 1 193	- 1 152	- 1 128	- 1 136	- 1 148	- 1 140	- 1 127	- 1 129	- 1 076	- 1 099	- 1 153	- 1 192	- 1 142	- 1 129	- 1 157	- 1 098	- 1 084
Final energy consumption	107	128	163	171	183	174	183	185	192	191	176	168	184	214	209	215	204	207	210	196	148	150	150	150	119	106
Industry	107	128	163	171	183	174	183	185	192	191	176	168	184	214	209	215	204	207	210	196	148	150	150	150	119	106
Transport																										
Residential																										
Commerce & public services																										
Others	0.2																									
Coal and peat products																										
Primary energy supply	3.0	6.6	10	8.9	12	12	6.6	1.6	14	14	10	1.2	-0.1	0.7	4.5	0.2	4.7	6.5	6.1	6.9	8.1	5.9	-0.2	7.5	5.5	3.6
Production																										
Import	4.8	8.1	9.0	8.6	13	11	9.0	5.9	10	16	12	2.2	5.7	3.0	6.9	5.1	5.1	5.5	5.9	8.0	8.8	7.6	7.3	5.9	6.1	4.3
Export	-0.7		-0.3	-0.2	-0.3	-0.3	-1.3	-0.6	-0.3	-0.3	-2.6	-1.1	-3.4	-2.9	-3.3	-0.4	-2.1			-1.3	-0.7	-0.6	-3.4	-1.3	-1.5	-1.4
Transformation sector	53	63	83	82	86	83	89	86	85	86	93	82	118	111	108	122	108	120	125	116	120	121	121	124	122	108
Power generation	- 17	- 11	- 16	- 18	- 19	- 19	- 20	- 18	- 17	- 17	- 11	- 11	- 16	- 25	- 21	- 24	- 36	- 36	- 36	- 36	- 38	- 38	- 37	- 39	- 33	- 30
Final energy consumption	30	35	53	52	53	53	53	52	56	56	60	52	69	62	63	74	67	64	65	62	66	64	60	69	69	63
Industry	30	35	53	52	53	53	53	52	56	56	60	52	69	62	63	74	67	64	65	62	66	64	60	69	69	63
Transport																										
Residential																										
Commerce & public services																										
Others																										
Crude oil & NGL																										
Primary energy supply	904	1 273	1 595	1 665	1 730	1 948	2 181	2 278	2 181	2 154	1 978	2 094	1 922	1 786	1 971	1 867	1 866	1 842	1 897	1 858	1 952	1 940	1 583	1 669	1 769	1 754
Production	6.9	2.3	1.4	1.5	1.9	1.7	1.7	1.2	0.9	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Import	930	1 264	1 625	1 670	1 725	1 956	2 215	2 293	2 193	2 175	2 004	2 078	1 928	1 755	1 951	1 847	1 900	1 851	1 891	1 875	1 938	1 951	1 627	1 677	1 791	1 777
Export												</														

Major economic indicators of Chinese Taipei

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹⁾	20.28	20.50	20.70	20.90	21.09	21.27	22.18	22.34	22.46	22.56	22.65	22.73	22.82	22.92	23.00	23.08	23.14	23.19	23.27	23.34	23.40	23.46	23.52	23.56	23.58	23.60	23.58	23.47	23.32	23.34	Population (million) ¹⁾
Gross domestic product ³⁾																															Gross domestic product ³⁾
Real term, billion USD (constant 2015)	161	174	188	201	216	231	307	303	319	333	356	375	397	424	427	420	463	480	491	503	527	535	546	566	583	601	621	663	681	688	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	195	218	241	264	290	315	456	460	492	523	575	625	681	747	768	760	848	898	934	974	1 038	1 063	1 096	1 156	1 183	1 242	1 366	1 512	1 663	1 744	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	166	187	223	235	256	279	331	299	307	317	347	374	386	407	416	391	444	484	496	513	535	535	543	591	609	611	673	776	766	758	Nominal, billion USD (current)
GDP per capita ³⁾																															GDP per capita ³⁾
Real term (constant 2015 USD)	7 919	8 488	9 104	9 634	10 265	10 839	13 835	13 545	14 210	14 745	15 712	16 497	17 377	18 492	18 574	18 211	20 022	20 710	21 101	21 556	22 516	22 788	23 229	24 039	24 712	25 450	26 335	28 242	29 184	29 483	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD) ⁴⁾	9 591	10 628	11 660	12 631	13 745	14 818	20 548	20 571	21 916	23 190	25 375	27 479	29 838	32 612	33 389	32 936	36 653	38 696	40 157	41 724	44 340	45 292	46 608	49 096	50 171	52 646	57 944	64 447	71 330	74 731	GDP, PPP (constant 2021 USD) ⁴⁾
Nominal (current USD)	8 205	9 129	10 767	11 245	12 153	13 126	14 910	13 401	13 688	14 067	15 321	16 463	16 933	17 756	18 094	16 939	19 202	20 870	21 299	21 973	22 875	22 788	23 099	25 081	25 841	25 913	28 551	33 057	32 864	32 452	Nominal (current USD)
Nominal GDP & its components (billion of current TWD) ¹⁾																															Nominal GDP & its components (billion of current TWD) ¹⁾
Gross domestic product	4 474	5 018	5 609	6 200	6 779	7 391	10 329	10 119	10 631	10 924	11 596	12 037	12 573	13 364	13 115	12 919	14 060	14 262	14 678	15 271	16 258	17 055	17 555	17 983	18 375	18 909	19 915	21 739	22 820	23 597	Gross domestic product
Private Final Consumption	2 341	2 622	2 970	3 301	3 715	3 969	5 706	5 756	5 953	6 098	6 488	6 780	6 943	7 191	7 250	7 163	7 481	7 775	8 016	8 242	8 603	8 788	9 082	9 326	9 610	9 883	9 601	9 697	10 462	11 482	Private Final Consumption
Government Final Consumption	806	909	977	1 037	1 074	1 250	1 625	1 710	1 756	1 772	1 812	1 857	1 876	1 948	2 011	2 076	2 122	2 192	2 284	2 259	2 361	2 364	2 482	2 487	2 623	2 653	2 773	2 938	3 178	3 232	Government Final Consumption
Gross Fixed Capital Formation	1 109	1 237	1 489	1 713	1 841	2 025	2 719	2 235	2 282	2 362	2 851	2 923	3 062	3 219	3 049	2 763	3 330	3 333	3 314	3 466	3 631	3 664	3 808	3 796	4 001	4 527	4 817	5 676	6 406	6 048	Gross Fixed Capital Formation
Changes in Inventories	31	64	92	63	55	45	93	- 63	- 44	13	101	34	44	16	178	- 183	197	34	17	- 25	38	42	- 10	- 25	85	- 26	5.5	184	- 11	- 265	Changes in Inventories
Exports	2 021	2 309	2 364	2 674	2 898	3 448	5 444	5 099	5 667	6 249	7 404	7 841	8 994	10 169	10 171	8 733	11 198	11 529	11 635	11 854	12 559	12 157	11 808	12 096	12 191	11 923	11 568	14 440	15 377	14 537	Exports
Imports	1 834	2 123	2 282	2 589	2 803	3 346	5 258	4 617	4 982	5 570	7 060	7 399	8 347	9 180	9 545	7 632	10 268	10 600	10 588	10 527	10 934	9 959	9 615	9 696	10 136	10 050	8 849	11 196	12 592	11 437	Imports
Real GDP & its components (billion of 2019 TWD) ¹⁾																															Real GDP & its components (billion of 2019 TWD) ¹⁾
Gross Domestic Product	5 161	5 717	6 192	6 614	7 111	7 573	10 083	9 941	10 486	10 929	11 689	12 318	13 029	13 922	14 033	13 806	15 221	15 780	16 131	16 531	17 311	17 565	17 945	18 602	19 143	19 727	20 402	21 773	22 358	22 608	Gross Domestic Product
Private Final Consumption	3 231	3 481	3 827	4 139	4 499	4 667	6 327	6 417	6 640	6 830	7 188	7 428	7 561	7 742	7 608	7 605	7 887	8 126	8 282	8 493	8 808	9 060	9 299	9 579	9 797	10 039	9 795	9 789	10 183	10 987	Private Final Consumption
Government Final Consumption	1 383	1 486	1 529	1 577	1 586	1 801	2 098	2 158	2 197	2 185	2 211	2 222	2 211	2 259	2 297	2 371	2 399	2 452	2 510	2 476	2 569	2 566	2 660	2 650	2 755	2 771	2 846	2 952	3 104	3 117	Government Final Consumption
Gross Fixed Capital Formation	1 651	1 831	2 041	2 243	2 452	2 633	3 615	2 986	3 038	3 074	3 502	3 613	3 668	3 729	3 303	3 010	3 583	3 533	3 487	3 733	3 863	3 967	4 103	4 110	4 233	4 691	4 984	5 704	6 157	5 679	Gross Fixed Capital Formation
Changes in Inventories	- 26	59	101	57	47	-2.5	65	- 38	- 42	20	90	36	49	18	178	- 171	209	49	34	- 35	55	52	-8.4	- 49	80	- 65	23	243	-5.3	- 156	Changes in Inventories
Exports	1 869	2 121	2 274	2 451	2 580	2 898	4 540	4 225	4 747	5 264	6 123	6 637	7 453	8 292	8 528	7 801	9 957	10 344	10 540	10 879	11 530	11 572	11 464	11 806	11 776	11 779	11 721	13 491	13 864	13 298	Exports
Imports	2 348	2 708	2 975	3 210	3 341	3 665	5 651	4 917	5 280	5 724	6 755	7 001	7 416	7 753	7 657	6 676	8 687	8 670	8 706	8 991	9 497	9 622	9 527	9 465	9 469	9 449	8 959	10 405	10 944	10 344	Imports
Sectoral shares of Real GDP (%) ²⁾																															Sectoral shares of Real GDP (%) ²⁾
Agriculture	7.3	6.9	6.2	6.1	5.4	5.2	3.7	3.6	3.7	3.5	3.1	2.8	3.0	2.8	2.7	2.7	2.5	2.5	2.4	2.4	2.3	2.1	1.9	2.0	1.9	1.8	1.6	1.6	1.3	Agriculture	
Industry	28.8	28.3	27.7	27.3	27.1	26.8	26.0	24.5	25.7	27.0	28.0	28.7	29.1	30.7	30.5	30.2	33.3	34.0	34.8	35.0	36.5	36.3	36.9	37.4	37.3	36.7	38.0	40.4	40.2	37.5	Industry
Services	65.1	65.9	66.6	67.9	68.7	69.2	71.4	72.9	71.3	70.4	69.3	68.4	67.6	66.2	66.0	66.3	63.9	63.6	63.0	62.9	61.9	61.8	61.3	61.0	61.1	61.4	60.2	58.1	58.1	60.2	Services
Industrial production index (2016=100) ¹⁾	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Industrial production index (2016=100) ¹⁾
External trade (billions of current USD) ¹⁾																															External trade (billions of current USD) ¹⁾
Exports, f.o.b.	67.4	76.6	82.1	86.0	94.3	113.3	151.9	126.3	135.3	150.6	182.4	199.8	225.9	248.7	257.8	205.2	277.4	312.2	305.3	310.9	319.4	284.4	279.2	315.5	334.0	329.2	345.1	446.4	479.4	432.4	Exports, f.o.b.
Imports, c.i.f.	54.8	63.1	72.4	77.4	85.7	104.0	140.7	108.0	113.2	128.0	168.8	185.4	206.4	223.0	244.2	177.1	255.7	287.3	276.5	277.4	281.1	236.4	229.2	257.2	284.8	285.7	286.1	382.0	428.1	351.6	Imports, c.i.f.
Balance of payments (billion of current USD) ²⁾																															Balance of payments (billion of current USD) ²⁾
Balance on Goods and Services	7.1	7.3	3.6	3.6	4.0	4.2	6.4	14.2	19.9	21.5	10.1	10.2	17.5	25.7	30.3	25.8	28.4	30.9	39.4	48.9	62.3	60.5	60.5	72.5	60.3	52.4	79.0	100.4	81.2	0.0	Balance on Goods and Services
Current account	10.9	12.5	8.6	7.0	6.5	5.5	8.2	17.1	24.3	28.3	17.3	14.9	23.2	32.0	40.7	36.7	37.9	42.9	49.9	60.6	72.7	71.3	71.3	83.1	70.7	66.4	97.5	118.0	101.3	0.0	Current account
Overall balance	-3.9	9.7	1.4	1.5	4.6	-3.9	2.5	17.4	33.7	37.1	26.6	20.1	6.1	-4.0	54.1	40.2	6.2	15.5	11.3	13.0	15.0	10.7	10.7	12.5	12.5	16.7	48.3	21.0	10.9	0.0	Overall balance
Foreign exchange rate (TWD/USD) ¹⁾	26.89	26.81	25.16	26.38	26.46	26.48	31.23	33.80	34.58	34.42	33.42	32.17	32.53	32.84	31.52	33.05	31.64	29.46	29.61	29.77	30.37	31.90	32.32	30.44	30.16	30.93	29.58	28.02	29.78	31.15	Foreign exchange rate (TWD/USD) ¹⁾
PPP conversion factor, GDP (TWD/USD) ⁴⁾	23.00	23.03	23.24	23.49	23.39	23.45	22.66	22.02	21.59	20.88	20.18	19.27	18.46	17.88	17.08	17.00	16.58	15.89	15.71	15.68	15.67	16.05	16.02	15.58	15.57	15.27	14.65	14.40	13.72	13.53	PPP conversion factor, GDP (TWD/USD) ⁴⁾
Price Indices																															Price Indices
GDP Deflator (2016=100) ²⁾	84.8	87.8	90.6	93.7	95.3	97.6	102.4	101.8	101.4	100.0	99.2	97.7	96.5	96.0	93.5	93.6	92.4	90.4	91.0	92.4	93.9	97.1	97.8	96.8	96.2	96.2	98.2	100.0	102.1	104.4	GDP Deflator (2016=100) ²⁾
Wholesale Price Index (2016=100) ²⁾	87.2	87.4	84.1	86.3	88.1	94.6	91.2	90.0	90.0	92.2	98.7	99.3	104.9	111.7	117.4	107.2	113.0	117.9	116.6	113.7	113.1	103.1	100.0	100.9	104.6	102.2	94.3	103.2	116.0	116.0	Wholesale Price Index (2016=100) ²⁾
Consumer Price Index (2021=100) ²⁾	61.6	64.7	67.1	69.6																											

Energy prices in Chinese Taipei
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	TWD / US Dollar	31.64	29.36	29.68	29.63	30.18	31.56	32.32	30.63	30.63	30.95	29.68	27.98	29.39	31.13
Coal and Coal Products															
Coking Coal	USD/tonne	197.40	292.19	218.96	167.07	133.32	108.32	131.80	219.87	217.02	196.06	131.18	196.97	380.33	285.67
Anthracite	USD/tonne	183.07	219.37	179.08	154.70	151.37	98.95	101.72	151.30	175.89	176.85	157.62	182.62	359.82	310.89
Other bituminous coal	USD/tonne	103.79	128.03	119.15	102.24	91.72	74.57	67.47	94.88	111.68	97.97	73.90	119.28	270.55	203.17
Sub-bituminous Coal	USD/tonne	80.98	92.54	90.59	75.34	69.10	56.14	46.94	69.65	77.77	71.99	59.01	72.35	164.90	156.86
Lignite															
Peat															
Patent Fuel															
Coke	USD/tonne	346.76	494.12	332.05	289.19	249.45	206.30	217.01	280.70	346.58	287.67	241.91	381.03	504.23	348.72
Coal Tar															
BKB/PB															
Oil and Oil Products															
Crude Oil	USD/BBL	76.63	106.92	111.12	106.83	101.57	51.72	39.53	52.02		63.85	45.14	68.67	101.05	83.38
Natural Gas Liquids															
Ethane															
LPG	USD/tonne	16.45	997.88	890.82	875.83	853.57	464.66	351.10	443.74	550.87	455.14	359.30	647.93	780.99	780.99
Naphtha	USD/tonne	726.94	946.29	981.26	931.97	906.0	507.0	394.97	494.13	640.68	533.79	405.10	644.54	838.21	838.21
Motor Gasoline															
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene															
Gas/Diesel Oil															
Fuel Oil	USD/kL	508.64	741.40	780.78	702.19	671.24	382.49	305.60	371.59	527.09	496.82	357.10	531.37	872.63	872.63
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas															
Liquefied Natural Gas	USD/tonne		683.46	778.14	761.02	730.91	443.59	326.01	387.66	387.66	452.61	312.99	574.88	988.84	628.98
Compressed Natural Gas															

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	TWD / US Dollar	31.64	29.36	29.68	29.63	30.18	31.56	32.32	30.63	30.63	30.95	29.68	27.98	29.39	31.13
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	TWD/kg	28.46	27.86	30.06	34.91	28.46	24.86	18.76	26.96	22.36	20.46	16.86	16.86	16.86	16.86
LPG (transport)															
Naphtha															
Motor Gasoline (regular)	TWD/L	29.12	28.92	32.32	33.32	24.02	18.92	23.45	24.95	22.93	26.13	22.31	25.81	27.41	27.71
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	TWD/L	39.00	41.50	41.50	41.80	29.50	22.60	35.30	38.30	35.30	37.60	25.80	33.60	44.10	42.30
Gas/Diesel Oil	TWD/L	27.22	27.42	30.72	31.82	21.62	16.02	20.97	22.57	20.51	24.01	17.64	23.74	26.14	26.14
Fuel Oil	TWD/L	17.78	20.65	20.87	20.85	20.01	13.83	12.15	12.81	17.37	16.03	12.62	19.13	25.24	21.86
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	TWD/m³	14.64	17.25	20.35	19.15	17.38	11.01	9.70	11.66	12.68	10.96	8.35	8.60	8.60	8.60
Liquefied Natural Gas (export)	TWD/m³	16.29	19.00	22.17	20.87	18.94	12.00	10.57	12.71	13.82	11.95	9.10	9.37	9.37	9.37
Compressed natural gas															
Electricity	TWD/kWh	2.61	2.60	2.72	2.89	3.07	2.93	2.62	2.55	2.60	2.62	2.60	2.59	2.72	3.07
Industrial															
Commercial															
Residential															
Others															

Energy prices in Chinese Taipei
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	TWD / US Dollar	31.64	29.36	29.68	29.63	30.18	31.56	32.32	30.63	30.63	30.95	29.68	27.98	29.39	31.13
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	TWD/kg	28.46	27.86	30.06	34.91	28.46	24.86	18.76	26.96	22.36	20.46	16.86	16.86	16.86	16.86
Naphtha															
Motor Gasoline	TWD/L	31.77	31.57	34.97	35.97	26.67	21.57	26.57	28.07	26.17	29.37	25.67	29.17	30.77	31.27
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	TWD/L	39.0	41.50	41.50	41.80	29.50	22.60	35.30	38.30	35.30	37.60	27.60	33.60	44.10	42.30
Gas/Diesel Oil	TWD/L	28.60	28.80	32.10	33.20	23.0	17.40	22.60	24.20	22.20	25.70	21.30	25.50	27.90	28.0
Fuel Oil	TWD/L	17.75	20.65	20.87	20852.0	20.01	13.83	12.15	12.81	17.37	16.03	12.62	19.13	25.24	21.86
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	TWD/m ³	15.83	18.44	20.45	20.34	18.56	12.19	10.89	12.85	13.86	12.14	9.54	9.76	9.76	9.76
Liquefied Natural Gas															
Compressed Natural Gas															
Electricity															
Industrial	TWD/kWh	2.46	2.45	2.62	2.80	3.03	2.86	2.54	2.48	2.54	2.56	2.53	2.53	2.71	3.17
Commercial	TWD/kWh	3.10	3.10	3.10	3.10	4.27	3.69	3.57	3.45	3.46	3.46	3.42	3.38	2.71	3.17
Residential	TWD/kWh	2.10	2.10	2.10	2.10	2.99	2.50	2.53	2.42	2.47	2.48	2.51	2.47	2.76	2.83
Others															

Thailand

Energy balance table of Thailand

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	134		276								990	24			20	13	1 036			2 493	1 093	Production
Import	478	1.0	2 090	117	26	1.1	8.5	0.3	81		750								118	3 554		Import
Export	-2.5		- 24	- 388	- 55	- 30	- 185	- 109	-7.7										-8.1	- 423		Export
International marine bunkers				- 56				- 56												- 56		International marine bunkers
International aviation bunkers				- 143		- 143														- 143		International aviation bunkers
Stock changes											- 26									- 26		Stock changes
Total primary energy supply	609	1.0	2 342	- 469	- 28	- 172	- 177	- 165	73		1 714	24			20	13	1 036		110	5 400	1 093	Total primary energy supply
Transfers																						Transfers
Total transformation sector	- 253		-2 270	2 113	389	185	969	200	250	120	-1 278	- 24			- 20	- 13	- 551		728	-1 568	- 607	Total transformation sector
Main activity producers	- 253			-6.9			-6.8	-0.1			-1 036	- 24			- 20	- 13	- 502		728	-1 127	- 558	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-2 273	1 901	389	185	976	200	82	69										- 372		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation			2.6	219						168	51	- 241					- 49			- 69	- 49	Other transformation
Losses & own use			-8.6	-5.8						-5.8	- 155								- 40	- 209		Losses & own use
Discrepancy	- 60	-0.5	128	- 27	- 28	17	66	- 12	-0.3	- 69	42						-2.8		-10.0	70	-2.8	Discrepancy
Total final consumption	295	0.5	192	1 611	333	30	858	23	317	51	324				0.4		482		787	3 693	483	Total final consumption
Total final energy consumption	295	0.5		1 424	333	30	858	23	180	0.1	324				0.4		482		787	3 314	483	Total final energy consumption
Industry sector	295	0.5		162	1.0		102	23	36	0.1	279						267		298	1 303	267	Industry sector
Mining and quarrying				0.4			0.4												4.9	5.3		Mining and quarrying
Construction				5.8			3.4	2.4												5.8		Construction
Iron and steel	0.5			12			5.5	0.7	5.6		25						0.2		26	64	0.2	Iron and steel
Chemical & petrochemical	6.6	0.1		22			8.5	1.2	12	0.1	129						12		48	217	12	Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	237	0.3		12	0.1		7.5	0.4	4.1		62						28		22	362	28	Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery				8.4	0.3		5.9	0.1	2.2		22								61	92		Machinery
Food, beverages and tobacco	17			46	0.2		39	3.6	2.8		15						202		97	377	202	Food, beverages and tobacco
Pulp, paper and printing	29			5.5			3.8	1.5	0.3		9.1						13		11	68	13	Pulp, paper and printing
Wood and wood products				4.1			4.0										7.4		10	22	7.4	Wood and wood products
Textiles and leather	4.5			2.2			0.7	0.9	0.6		4.6						4.7		15	31	4.7	Textiles and leather
Non-specified industry	0.3			44	0.4		23	12	8.7		11						0.6		4.6	61	0.6	Non-specified industry
Transport sector				1 065	332	30	663		41		44						86		1.7	1 197	86	Transport sector
Domestic air transport				30		30														30		Domestic air transport
Road				1 022	332		650		41		44						86		0.4	1 153	86	Road
Rail				3.3			3.3												1.4	4.6		Rail
Inland waterways				9.3			9.3													9.3		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				197			94		103						0.4		129		487	814	129	Other sector
Residential				79					79								129		209	416	129	Residential
Commerce and public services				24					24						0.4				277	301	0.4	Commerce and public services
Agriculture				94			94												1.7	96		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy			192	187					137	51										379		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	28 665			3 244							125 833	6 592		1	5 436	3 519	28 857			202 147	44 405	Electricity generated (GWh)
Electricity plants	28 665			3 244							125 833	6 592		1	5 436	3 519	28 857			202 147	44 405	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Thailand

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	143		290								989	24		0.1	19	11	967		2 442	1 021	Production	
Import	566	0.6	1 996	134	16	2.0	38	1.1	76		606							128	3 431		Import	
Export	-5.0		- 28	- 339	- 58	- 29	- 125	- 117	-9.0	-0.8								-7.4	- 380		Export	
International marine bunkers				- 66				- 66											- 66		International marine bunkers	
International aviation bunkers				- 92		- 92													- 92		International aviation bunkers	
Stock changes											-4.4								-4.4		Stock changes	
Total primary energy supply	704	0.6	2 257	- 363	- 42	- 119	- 86	- 182	67	-0.8	1 591	24		0.1	19	11	967	120	5 330	1 021	Total primary energy supply	
Transfers																					Transfers	
Total transformation sector	- 298		-2 169	1 912	376	129	817	228	245	116	-1 160	- 24		-0.1	- 19	- 11	- 481	689	-1 561	- 535	Total transformation sector	
Main activity producers	- 298			- 13			- 12	-1.0			- 922	- 24		-0.1	- 19	- 11	- 429	689	-1 026	- 483	Main activity producers	
Autoproducers																					Autoproducers	
Gas processing																					Gas processing	
Petroleum refineries			-2 195	1 722	376	129	829	229	92	66									- 473		Petroleum refineries	
Coal transformation																					Coal transformation	
Other transformation			26	203					154	50	- 238						- 53		- 62	- 53	Other transformation	
Losses & own use			-8.0	-3.3					-3.3		- 138							- 60	- 209		Losses & own use	
Discrepancy	- 52	1.4	135	18	- 18	13	102	- 19	5.5	- 66	43						-1.0	0.7	145	-1.0	Discrepancy	
Total final consumption	354	2.0	215	1 564	316	23	832	28	315	50	336			0.5			484	749	3 705	485	Total final consumption	
Total final energy consumption	354	2.0		1 379	316	23	832	28	179	0.2	336			0.5			484	749	3 304	485	Total final energy consumption	
Industry sector	354	2.0		164	0.8		99	28	37	0.2	290						265	295	1 370	265	Industry sector	
Mining and quarrying				0.2			0.2											4.8	5.0		Mining and quarrying	
Construction				6.1			3.5	2.6											6.1		Construction	
Iron and steel	1.4			12			5.4	0.7	5.7		27							28	68		Iron and steel	
Chemical & petrochemical	7.0	0.2		22			8.3	1.6	12	0.1	133						27	50	240	27	Chemical & petrochemical	
Non-ferrous metals																					Non-ferrous metals	
Non-metallic minerals	249	1.4		12			7.4	0.6	4.1		65						19	24	372	19	Non-metallic minerals	
Transportation equipment																					Transportation equipment	
Machinery				8.5	0.2		5.7	0.3	2.2		23							62	93		Machinery	
Food, beverages and tobacco	35	0.2		46	0.1		38	4.6	2.9		15						193	84	374	193	Food, beverages and tobacco	
Pulp, paper and printing	42	0.2		5.1			3.7	1.1	0.3		9.5						2.4	10	70	2.4	Pulp, paper and printing	
Wood and wood products				3.9			3.9										20	10	35	20	Wood and wood products	
Textiles and leather	18			2.4			0.6	1.1	0.6		4.7						0.9	16	42	0.9	Textiles and leather	
Non-specified industry	1.4			46	0.4		22	15	8.8		13						1.3	4.2	66	1.3	Non-specified industry	
Transport sector				1 022	315	23	644		39		46						81	1.0	1 149	81	Transport sector	
Domestic air transport				23		23													23		Domestic air transport	
Road				987	315		632		39		46						81	0.1	1 113	81	Road	
Rail				3.0			3.0											0.9	3.9		Rail	
Inland waterways				8.8			8.8												8.8		Inland waterways	
Non-specified transport																					Non-specified transport	
Other sector				193			90		103					0.5			138	453	785	139	Other sector	
Residential				78					78								138	194	411	138	Residential	
Commerce and public services				25					25					0.5				258	283	0.5	Commerce and public services	
Agriculture				90			90											1.2	91		Agriculture	
Fishery																					Fishery	
Non-specified																					Non-specified	
Non-energy			215	185					136	50									401		Non-energy	
Electricity and heat output																						
Electricity generated (GWh)	34 396			10 895							107 020	6 449		1	5 152	3 036	24 367		191 316	39 006	Electricity generated (GWh)	
Electricity plants	34 396			10 895							107 020	6 449		1	5 152	3 036	24 367		191 316	39 006	Electricity plants	
CHP plants																					CHP plants	
Heat generated (PJ)																					Heat generated (PJ)	
Heat plants																					Heat plants	
CHP plants																					CHP plants	

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Thailand

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																											Total
Primary energy supply	1 640	2 932	3 151	3 208	3 427	3 704	4 019	4 129	4 211	4 380	4 515	4 562	5 011	5 115	5 121	5 484	5 589	5 499	5 722	5 507	5 582	5 651	5 343	5 183	5 330	5 400	Primary energy supply
Production	958	1 632	1 804	1 761	1 868	1 993	2 084	2 235	2 295	2 416	2 608	2 701	3 017	2 993	3 146	3 299	3 348	3 205	3 350	3 158	3 068	3 152	2 781	2 641	2 442	2 493	Production
Import	791	1 421	1 678	1 901	2 005	2 168	2 439	2 423	2 483	2 489	2 512	2 620	2 751	2 688	2 897	2 967	2 926	3 166	3 146	3 326	3 510	3 281	3 262	3 318	3 431	3 554	Import
Export	- 34	- 50	- 228	- 316	- 346	- 336	- 354	- 380	- 436	- 396	- 495	- 530	- 511	- 473	- 543	- 655	- 453	- 506	- 461	- 512	- 534	- 430	- 457	- 480	- 380	- 423	Export
Final energy consumption	1 143	1 951	1 934	1 947	2 088	2 223	2 402	2 440	2 465	2 516	2 571	2 616	2 759	2 774	2 900	2 976	2 997	3 058	3 153	3 162	3 279	3 354	3 151	2 950	3 304	3 314	Final energy consumption
Industry	364	668	716	724	804	859	945	973	1 004	1 005	1 032	1 017	1 080	1 050	1 137	1 149	1 189	1 182	1 246	1 203	1 286	1 314	1 218	1 125	1 370	1 303	Industry
Transport	408	695	681	642	675	725	774	792	761	773	759	817	830	869	912	936	925	978	1 035	1 116	1 130	1 154	1 138	1 059	1 149	1 197	Transport
Residential	236	414	311	319	329	340	372	377	382	403	421	426	463	466	435	480	484	482	483	459	465	472	429	409	411	416	Residential
Commerce & public services	59	108	135	142	152	159	162	160	176	190	213	209	237	233	257	245	231	252	263	273	277	289	268	262	283	301	Commerce & public services
Others	76	66	91	120	128	140	151	138	142	146	146	147	148	156	159	165	167	164	126	112	122	124	98	94	91	96	Others
Coal and peat																											Coal and peat
Primary energy supply	156	296	327	371	388	396	445	482	517	584	630	600	626	662	618	583	546	494	561	584	604	609	646	570	704	609	Primary energy supply
Production	151	233	218	239	240	222	237	253	224	208	200	202	210	253	201	188	195	163	182	173	159	149	139	149	143	134	Production
Import	4.8	61	109	130	149	188	199	227	296	376	422	431	445	437	491	458	556	584	574	586	657	569	630	633	566	478	Import
Export							-0.1				-2.0	-0.8	-0.5	-0.2	-0.1	-0.3	-0.8	-0.7	-1.1	-1.5	-2.5	-1.7	-1.9	-4.3	-5.0	-2.5	Export
Transformation sector	- 103	- 144	- 176	- 188	- 183	- 187	- 197	- 199	- 202	- 291	- 304	- 284	- 285	- 362	- 346	- 332	- 356	- 313	- 339	- 360	- 316	- 310	- 311	- 302	- 298	- 253	Transformation sector
Power generation	- 103	- 144	- 176	- 188	- 183	- 187	- 197	- 199	- 202	- 291	- 304	- 284	- 285	- 362	- 346	- 332	- 356	- 313	- 339	- 360	- 316	- 310	- 311	- 302	- 298	- 253	Power generation
Final energy consumption	52	152	151	183	204	209	248	284	315	293	326	316	341	299	273	250	191	181	223	223	288	299	335	268	354	295	Final energy consumption
Industry	52	152	151	183	204	209	248	284	315	293	326	316	341	299	273	250	191	181	223	223	288	299	335	268	354	295	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Coal and peat products																											Coal and peat products
Primary energy supply	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	0.3	7.5	4.6	6.0	1.1	5.1	4.6	1.8	1.6	1.7	1.9	2.1	1.5	0.6	1.0	Primary energy supply
Production																											Production
Import	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	3.3	5.8	3.0	1.0	1.1	1.1	0.6	0.8	2.5	0.5	0.5	0.5	0.4	0.6	1.0	Import
Export															0.2												Export
Transformation sector																											Transformation sector
Power generation																											Power generation
Final energy consumption	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	0.3	7.5	4.6	5.6	1.1	5.1	4.6	1.8	1.6	1.7	1.9	2.1	1.5	2.0	0.5	Final energy consumption
Industry	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	0.3	7.5	4.6	5.6	1.1	5.1	4.6	1.8	1.6	1.7	1.9	2.1	1.5	2.0	0.5	Industry
Transport																											Transport
Residential																											Residential
Commerce & public services																											Commerce & public services
Others																											Others
Crude oil & NGL																											Crude oil & NGL
Primary energy supply	512	1 052	1 657	1 686	1 754	1 912	2 088	2 043	2 123	2 131	2 200	2 222	2 227	2 186	2 295	2 492	2 376	2 583	2 568	2 630	2 633	2 383	2 338	2 302	2 257	2 342	Primary energy supply
Production	88	108	223	230	263	324	313	374	416	435	474	481	507	467	505	502	475	507	525	487	463	456	411	361	290	276	Production
Import	459	965	1 426	1 504	1 536	1 636	1 840	1 746	1 749	1 684	1 712	1 807	1 784	1 744	1 881	1 882	1 749	1 877									

Major economic indicators of Thailand

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	55.23	56.10	56.94	57.78	58.61	59.42	63.07	63.65	64.22	64.78	65.31	65.82	66.32	66.83	67.33	67.81	68.27	68.71	69.16	69.58	69.96	70.29	70.61	70.90	71.13	71.31	71.48	71.60	71.70	71.70	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	144	156	169	183	198	214	221	229	243	261	277	289	303	319	325	323	347	350	375	385	389	401	415	432	451	460	432	439	450	459	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	402	436	471	510	551	596	618	639	678	727	773	805	845	891	906	900	968	976	1 046	1 074	1 085	1 119	1 157	1 206	1 257	1 283	1 205	1 223	1 488	1 519	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	85	98	111	129	147	169	126	120	134	152	173	189	222	263	291	282	341	371	398	420	407	401	413	456	507	544	500	506	496	516	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	2 608	2 787	2 968	3 167	3 371	3 595	3 511	3 599	3 786	4 024	4 242	4 385	4 569	4 780	4 827	4 759	5 082	5 092	5 426	5 538	5 562	5 709	5 879	6 099	6 336	6 454	6 048	6 128	6 276	6 408	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	7 273	7 773	8 277	8 831	9 401	10 025	9 792	10 036	10 558	11 221	11 829	12 229	12 740	13 330	13 459	13 271	14 172	14 199	15 130	15 442	15 509	15 919	16 393	17 008	17 669	17 997	16 866	17 087	20 753	21 191	GDP, PPP (constant 2021 USD)
Nominal (current USD)	1 545	1 751	1 957	2 231	2 503	2 849	2 004	1 890	2 091	2 351	2 647	2 876	3 344	3 935	4 328	4 154	4 996	5 397	5 749	6 041	5 822	5 709	5 854	6 437	7 125	7 629	7 002	7 061	6 913	7 195	Nominal (current USD)
Nominal GDP & its components (billion of current THB) ¹¹																															Nominal GDP & its components (billion of current THB) ¹¹
Gross domestic product	2 184	2 507	2 831	3 263	3 689	4 218	5 070	5 345	5 770	6 317	6 954	7 614	8 401	9 076	9 707	9 659	10 808	11 307	12 357	12 915	13 230	13 743	14 590	15 489	16 373	16 889	15 661	16 167	17 378	17 955	Gross domestic product
Household final consumption expenditure	1 235	1 378	1 550	1 696	1 923	2 164	2 744	2 993	3 211	3 514	3 886	4 252	4 574	4 769	5 207	5 125	5 639	5 988	6 583	6 787	6 959	7 057	7 297	7 579	8 005	8 406	8 308	8 455	9 481	10 321	Household final consumption expenditure
General government final consumption expenditure	205	231	280	359	408	475	688	720	760	817	912	1 040	1 134	1 264	1 392	1 543	1 708	1 825	2 021	2 113	2 238	2 353	2 461	2 524	2 648	2 731	2 787	2 952	3 080	2 983	General government final consumption expenditure
Gross fixed capital formation	882	1 044	1 111	1 275	1 476	1 743	1 094	1 202	1 264	1 455	1 729	2 110	2 255	2 310	2 567	2 232	2 593	2 921	3 336	3 278	3 263	3 371	3 460	3 579	3 731	3 812	3 635	3 805	4 060	4 117	Gross fixed capital formation
Stock change	21	30	20	19	33	65	36	34	48	50	57	206	14	3.6	173	- 239	147	108	127	268	- 98	- 299	- 381	- 27	398	210	82	823	776	- 85	Stock change
Exports of goods and services	745	901	1 047	1 202	1 411	1 752	3 287	3 381	3 499	3 887	4 588	5 208	5 769	6 251	6 932	6 224	7 186	8 011	8 521	8 675	9 049	9 296	9 786	10 327	10 616	10 052	8 065	9 480	11 359	11 750	Exports of goods and services
Imports of goods and services	909	1 065	1 160	1 336	1 587	2 034	2 862	3 048	3 134	3 485	4 273	5 288	5 495	5 537	6 700	5 296	6 567	7 781	8 492	8 432	8 270	7 862	7 806	8 398	9 170	8 473	7 252	9 475	11 729	11 380	Imports of goods and services
Real GDP & its components (billion of 2019 THB) ¹¹																															Real GDP & its components (billion of 2019 THB) ¹¹
Gross Domestic Product	3 418	3 710	4 010	4 341	4 688	5 069	5 254	5 435	5 770	6 184	6 573	6 849	7 189	7 580	7 710	7 657	8 232	8 302	8 903	9 142	9 232	9 521	9 849	10 260	10 693	10 919	10 257	10 410	10 676	10 902	Gross Domestic Product
Household final consumption expenditure	1 899	2 002	2 176	2 360	2 545	2 756	2 855	3 023	3 211	3 447	3 703	3 859	3 967	4 014	4 128	4 091	4 314	4 393	4 715	4 760	4 785	4 910	5 051	5 207	5 446	5 661	5 617	5 651	5 999	6 412	Household final consumption expenditure
General government final consumption expenditure	414	440	468	492	533	570	716	735	760	799	830	896	917	995	1 044	1 153	1 256	1 302	1 396	1 417	1 457	1 494	1 526	1 530	1 571	1 596	1 617	1 677	1 679	1 600	General government final consumption expenditure
Gross fixed capital formation	1 547	1 744	1 859	2 032	2 266	2 535	1 169	1 190	1 264	1 424	1 650	1 885	1 935	1 969	2 015	1 796	2 004	2 102	2 327	2 303	2 253	2 351	2 419	2 463	2 560	2 611	2 486	2 563	2 621	2 653	Gross fixed capital formation
Stock change	39	54	34	26	43	82	37	34	48	50	54	188	11	3.1	139	- 183	107	68	93	183	- 64	- 112	- 341	- 69	258	117	126	283	238	- 7.9	Stock change
Exports of goods and services	1 178	1 356	1 544	1 744	1 973	2 276	3 305	3 304	3 499	3 819	4 377	4 717	5 226	5 691	6 047	5 313	6 068	6 645	6 889	7 062	7 086	7 175	7 368	7 750	8 010	7 773	6 243	6 936	7 362	7 537	Exports of goods and services
Imports of goods and services	1 449	1 636	1 783	2 019	2 371	2 916	2 908	2 951	3 134	3 482	4 189	4 867	5 011	5 221	5 816	4 608	5 666	6 368	6 727	6 840	6 478	6 478	6 414	6 813	7 377	6 995	6 022	7 091	7 349	7 158	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	12.5	12.6	12.3	8.0	8.6	9.1	8.5	8.6	8.7	9.4	9.3	9.2	9.4	9.3	10.1	9.8	10.5	11.6	11.5	11.3	10.1	8.9	8.5	8.4	8.2	8.1	8.7	8.5	6.4	0.0	Agriculture, Fishery and Forestry
Industry	37.2	38.7	38.1	36.9	37.0	37.3	36.7	36.3	36.9	37.9	37.9	38.5	39.1	39.4	39.5	38.6	39.9	38.0	37.3	36.9	36.8	36.2	35.6	35.0	34.7	33.6	33.2	34.8	34.6	0.0	Industry
Services, etc.	N.A.	N.A.	N.A.	55.1	54.4	53.6	54.8	55.1	54.4	52.6	52.8	52.3	51.5	51.2	50.4	51.6	49.6	50.4	51.2	51.8	53.1	54.9	55.9	56.6	57.1	58.3	58.1	56.7	60.1	0.0	Services, etc.
Industrial Production Index (2010=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	100.0	97.8	107.6	109.7	105.3	105.4	106.8	108.7	112.7	N.A.	N.A.	N.A.	N.A.	N.A.	Industrial Production Index (2010=100)
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	23.1	28.4	32.5	37.0	45.3	56.4	69.0	65.0	68.1	80.3	96.2	110.9	129.7	153.9	177.8	152.4	193.3	222.6	229.1	228.5	227.5	214.3	215.4	236.6	253.0	246.3	231.6	272.0	287.4	285.1	Exports, f.o.b.
Imports, c.i.f.	33.0	37.6	40.7	46.1	54.5	70.8	61.9	62.0	64.6	75.8	94.4	118.2	128.8	140.0	179.2	133.7	182.9	228.8	249.1	250.4	227.7	202.7	194.2	221.5	248.2	236.3	206.2	266.9	301.0	288.5	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	-6.8	-6.0	-4.2	-4.3	-3.7	-8.0	11.7	8.5	9.0	11.2	10.8	3.4	13.7	26.6	17.3	31.2	26.7	12.2	0.0	0.0	17.2	26.1	35.8	32.6	22.4	26.7	40.4	32.4	13.5	19.2	Trade balance
Current account	-7.3	-7.6	-6.3	-6.4	-8.1	-13.6	9.3	5.1	4.7	4.8	2.8	-7.6	2.3	15.6	0.9	22.2	11.5	9.4	-4.9	-8.8	11.6	27.8	43.4	44.0	28.5	38.3	20.9	-10.3	-15.7	8.5	Current account
Overall balance	1.8	4.2	3.2	4.1	4.1	8.4	-1.1	2.6	4.1	0.4	6.4	0.2	9.7	15.4	18.2	23.6	35.3	1.1	8.1	-11.0	-4.2	11.0	23.3	33.4	15.6	23.5	9.3	-15.2	-8.6	-2.7	Overall balance
Foreign exchange rate (THB/USD) ¹¹	25.59	25.52	25.40	25.32	25.15	24.92	40.11	44.43	42.96	41.48	40.22	40.22	37.88	34.52	33.31	34.29	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05	31.29	31.98	35.06	34.80	Foreign exchange rate (THB/USD) ¹¹
PPP conversion factor, GDP (THB/USD) ¹¹	8.96	9.17	9.37	9.74	9.99	10.34	11.04	11.00	11.02	11.04	11.13	11.34	11.57	11.54	11.90	11.85	12.19	12.39	12.25	12.30	12.49	12.64	12.73	12.84	12.72	12.62	12.30	11.97	10.91	10.65	PPP conversion factor, GDP (THB/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2002=100) ¹³	63.9	67.6	70.6	75.2	78.7	83.2	96.5	98.3	100.0	102.1	105.8	111.2	116.9	119.7	125.9	126.1	131.3	136.2	138.8	141.3	143.3	144.3	148.1	151.0	153.1	154.7	152.7	155.3	162.8	164.7	GDP Deflator (2002=100) ¹³
Producer Price Index (2010=100) ¹²	42.5	45.4	45.5	45.3	47.1	51.0	60.6	62.1	63.1	65.7	70.1	76.5	81.9	84.5	95.0	91.4	100.0	105.4	106.5	106.8	107.0	102.6	101.4	102.1	102.5	101.5	N.A.	N.A.	N.A.	110.2	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	49.8	52.6	54.8	56.6	59.4	62.9	77.4	78.6	79.2	80.6	82.8	86.6	90.6	92.6	97.7	96.9	100.0	103.8	106.9	109.3	111.3	110.3	110.6	111							

Energy prices in Thailand
IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	THB / US Dollar	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05	31.29	32.15	35.22	34.96
Coal and Coal Products															
Coking Coal	THB/tonne	13 999	15 417	17 980	13 193	12 902	12 181	11 224	6 506	18 565	17 183	13 565	18 793	21 093	12 028
Anthracite	THB/tonne	4 186	6 679	5 853	5 180	4 526	4 022	4 279	4 145	4 398	4 506	3 761	4 360	12 661	6 733
Other bituminous coal	THB/tonne	2 349								2 685					
Sub-bituminous Coal	THB/tonne	2 349	2 916	2 711	2 583	2 684	2 360	2 267	2 599	2 734	2 685	2 377	2 751	4 512	3 898
Lignite	THB/tonne	15 493	17 155	15 156	13 860	13 751	14 502	1 329	1 028	942	907	972	963	1 153	1 362
Peat															
Patent Fuel															
Coke	THB/tonne	13 999		17 980	12 902	12 902	11 252	11 252	13 824	17 183	17 183	13 565	18 793	21 093	12 028
Coal Tar															
BKB/PB	THB/tonne	1 978		19 163	1 759	1 759	1 572	1 572	1 912	1 707	1 707	1 401	2 245	4 373	1 000
Oil and Oil Products															
Crude Oil	USD/BBL	79.47	110.19	113.94	109.69	102.25	54.28	43.84	55.49	73.31	67.58	46.04	71.53	107.21	88.87
Natural Gas Liquids															
Ethane															
LPG	USD/BBL				107.53	75.39									
Naphtha															
Motor Gasoline	USD/BBL				120.68	119.96									
Aviation Gasoline	USD/BBL				127.19	196.82									
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	THB/L	37.91													
Other Kerosene															
Gas/Diesel Oil	USD/BBL*	21.66			114.0	121.18									
Fuel Oil	USD/BBL*	15.66			109.48	121.42									
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	THB/scf	7.16			11.17			5.72							
Liquefied Natural Gas	THB/tonne									416.01					
Compressed natural gas															
Electricity	THB/kWh	1.0			1.28	1.51									
Other Energy Products															
Charcoal	THB/tonne	3 030	3 210	3 473	3 297	3 561	3 847	4 551	4 531	4 676	4 600	4 030	4 585		
Agricutural waste **	THB/tonne	947	3 964	2 498	3 459	2 250	2 889	3 431	1 997	1 860	1 939	2 085	1 984		

*THB/L in 2010
** Including : Fuel Woods,Wood Pellets, Other; Sawdust and Wood Waste and Scrap, not Agglomerated, Chipwood

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency Exchange Rate	THB / US Dollar	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05	31.29	32.15	35.22	34.96
Coal and Coal Products															
Coking Coal															
Anthracite	THB/tonne				4 886										
Other bituminous coal															
Sub-bituminous Coal	THB/tonne				2 533										
Lignite	THB/tonne	523			1 328										
Peat															
Patent Fuel															
Coke	THB/tonne				13 608										
Coal Tar															
BKB/PB	THB/tonne				1 980										
Oil and Oil Products															
LPG	THB/kg	13.69	13.69	13.69	13.69	13.69	18.14	16.99	17.27	17.77	18.38	16.07	15.38	18.63	22.22
Motor Gasoline	THB/L	31.62		35.94		46.73	27.60	31.80	27.15	28.96	25.53				
Unleaded premium 95	THB/L	36.06	28.99	41.03	44.52	44.28	31.50	28.75	31.29	33.33	31.98	25.38	32.54	42.96	40.81
Unleaded premium 91	THB/L	34.47	37.76	39.61	37.07										
Gasohol 95 (E10)	THB/L	30.57	34.80	36.51	37.40	37.29		22.72	25.23	26.89	25.53	19.45	25.98	34.72	33.11
Gasohol 95 (E20)	THB/L	26.49	29.60	31.45	31.72	32.41		19.78	22.0	23.46	22.44	16.83	22.71	32.62	30.71
Gasohol 91 (E10)	THB/L	28.62	31.89	34.06	35.65	35.95		22.44	25.02	26.51	25.11	19.03	25.55	34.26	32.43
Gasohol 95 (E85)	THB/L							13.57	15.48	15.83	15.79	14.70	18.26	27.56	30.78
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel	THB/L	27.50													
Other Kerosene	THB/L	23.03	29.56	30.31	29.23	28.39	18.74	16.68	19.05	22.65	20.32	13.55	20.35	34.0	28.73
Gas/Diesel Oil	THB/L	26.77	27.84	28.36	27.90	27.34	22.0	21.38	23.96	26.47	24.47	20.34	26.08	31.53	30.10
Low sulphur diesel					27.04										
Fuel Oil	THB/L	16.80	22.15	23.31	21.39	20.59	11.65	9.84	12.87	15.32	12.95	9.18	15.0	20.54	17.97
Lubricants															
Natural Gas															
Natural Gas	THB/million Btu	321.00			394.00										
Liquefied Natural Gas															
Compressed Natural Gas	THB/kg	8.50		10.50											
Electricity															
Industrial	THB/kWh	2.72													
Commercial	THB/kWh	3.65													
Residential	THB/kWh	3.34													
Others	THB/kWh	4.32			3.79	3.93									
Other energy products															
Fuel Wood *	THB/kg	4.00	4.0	4.0	4.0	4.0	4.0	4.0	4.80	4.80	4.80	4.80	4.80		
Charcoal	THB/kg	7.00	7.0	7.0	7.0	7.0	7.0	7.0	8.44	8.44	8.44	8.44	8.44		
Paddy Husk	THB/kg	2.00	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Bagasse	THB/kg	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74		
Agricultural waste**	THB/kg	1.47	1	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47		

* Including : Fuel Woods,Wood Pellets
** Including : Straw,Cop Maize,Saw Dust,Fiber /Shell /Empty bunches Palm,Root Para Rubber, Cassava Pulp,Shell /Husk Coconuts

Energy prices in Thailand
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Currency	THB														
Exchange Rate	/ US Dollar	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05	31.29	32.15	35.22	34.96
Coal and Coal Products															
Coking Coal															
Anthracite															
Other bituminous coal															
Sub-bituminous Coal															
Lignite															
Peat															
Patent Fuel															
Coke															
Coal Tar															
BKB/PB															
Gas Works Gas															
Oil and Oil Products															
Crude Oil															
Natural Gas Liquids															
Ethane															
LPG	THB/kg	18.13	18.13	18.13	18.40	22.35	23.39	20.47	20.77	21.28	21.87	19.53	18.87	22.12	25.70
Naphtha															
Motor Gasoline	THB/L	31.24	26.89				31.50	28.75	31.29	26.89	25.53				
Unleaded Premium 95	THB/L	41.26	44.64	46.42	46.66	46.73	34.34	31.80	34.54	36.32	35.33	29.29	35.94	45.42	44.69
Unleaded premium 91	THB/L	36.10	39.72	41.96	45.19										
Gasohol 95 (E10)	THB/L	32.35	36.52	37.96	38.89	38.85	27.60	24.50	27.15	28.96	27.68	21.94	28.52	37.76	36.81
Gasohol 95 (E20)	THB/L	29.96	32.94	34.35	33.82	34.35	25.20	21.98	24.64	26.22	24.67	19.99	26.90	36.38	34.54
Gasohol 91 (E10)	THB/L	30.85	33.96	35.94	36.43	36.55	26.76	24.13	26.88	28.69	27.41	21.66	28.21	37.40	36.30
Aviation Gasoline															
Gasoline Type Jet Fuel															
Kerosene Type Jet Fuel															
Other Kerosene	THB/L	37.51	38.21	36.15	35.46	35.26	29.36	22.93	19.05	22.65	20.32	N/A		N/A	N/A
Gas/Diesel Oil	THB/L	28.69	29.45	30.42	29.97	26.69	24.54	23.26	25.64	28.35	26.46	22.56	28.02	33.07	32.17
Low sulphur diesel	THB/L				30.22										
Fuel Oil	THB/L	16.80	15.32		21.39	20.59	11.65	9.84	12.87	15.32	12.95	N/A		N/A	N/A
White Spirit SBP															
Lubricants															
Bitumen															
Paraffin Waxes															
Petroleum Coke															
Natural Gas															
Natural Gas	THB/million Btu	199.66	221.13	272.32	284.37	291.69	266.67	206.72	201.68	224.75	239.60	211.21	232.82	456.77	390.82
Liquefied Natural Gas (export)															
Compressed natural gas	THB/kg	8.50	8.50	10.25	10.50	10.83	13.17	12.77	13.16	14.53	15.88	14.65	14.55	16.01	18.51
Electricity															

The United States

Energy balance table of the United States

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	11 847		35 132								37 267	888	8 815	405	941	1 533	4 588	168		101 586	8 356	Production
Import	87	5.4	15 187	2 990	1 483	281	390	284	227	326	2 938						124		140	21 472	124	Import
Export	-2 491	- 40	-9 442	-9 708	-1 769	- 362	-2 351	- 266	-2 948	-2 013	-7 638						- 159		- 72	-29 549	- 159	Export
International marine bunkers				- 676			- 235	- 442									-5.3			- 682	-5.3	International marine bunkers
International aviation bunkers				-1 024		-1 024														-1 024		International aviation bunkers
Stock changes	- 965	4.0	- 655	84	- 91	- 17	- 56	43	211	-5.5	- 523						- 14			-2 070	- 14	Stock changes
Total primary energy supply	8 478	- 30	40 223	-8 334	- 377	-1 122	-2 252	- 380	-2 510	-1 693	32 043	888	8 815	405	941	1 533	4 534	168	68	89 734	8 303	Total primary energy supply
Transfers			-6 540	6 976	327	5.5	- 149	0.6	3 819	2 973										436		Transfers
Total transformation sector	-7 802	209	-34 894	33 362	15 337	3 508	9 334	481	499	4 203	-13 501	- 888	-8 815	- 390	- 801	-1 533	- 593	- 142	16 366	-19 424	-4 206	Total transformation sector
Main activity producers	-7 230	-6.4		- 251		-0.3	- 70	- 115		- 66	-12 736	- 884	-8 815	- 390	- 618	-1 532	- 349	- 78	15 582	-17 308	-3 774	Main activity producers
Autoproducers	- 30	- 15		- 59			-1.9	-1.0		- 56	- 668	-4.2			- 183	-0.9	- 207	- 64	784	- 447	- 395	Autoproducers
Gas processing	- 55										72						- 37			- 20	- 37	Gas processing
Petroleum refineries			-35 104	33 672	15 337	3 509	9 406	597	499	4 325										-1 432		Petroleum refineries
Coal transformation	- 488	230																		- 257		Coal transformation
Other transformation			210								- 170									40		Other transformation
Losses & own use		- 40		-1 153	- 28	-1.7	- 76	- 14	-7.7	-1 025	-2 951						-5.9		-2 187	-6 337	-5.9	Losses & own use
Discrepancy	- 301	0.5	1 211								4.7						49			964	49	Discrepancy
Total final consumption	375	139		30 852	15 260	2 390	6 857	88	1 800	4 457	15 596			15	140		3 985	27	14 247	65 374	4 140	Total final consumption
Total final energy consumption	375	139		24 990	15 260	2 390	6 816	88	369	67	14 905			15	140		3 985	27	14 247	58 822	4 140	Total final energy consumption
Industry sector	363	139		750	5.7		594	61	42	48	5 821						1 353	15	3 225	11 665	1 353	Industry sector
Mining and quarrying				61	5.7		44	12			123						2.3		141	327	2.3	Mining and quarrying
Construction				475			458		18		227						24		277	1 002	24	Construction
Iron and steel	5.3	116		7.2			3.4	3.5	0.3		313						0.2		212	654	0.2	Iron and steel
Chemical & petrochemical	59			70			37	16	4.6	13	2 301						3.0	7.7	523	2 964	3.0	Chemical & petrochemical
Non-ferrous metals				5.6			0.6		0.4	4.6	161								148	315		Non-ferrous metals
Non-metallic minerals	154			34			11	2.3	0.9	19	409						20		154	771	20	Non-metallic minerals
Transportation equipment				13			2.0	9.8	0.9		171						0.1		189	372	0.1	Transportation equipment
Machinery	1.0			15			5.1		6.9	2.8	233						0.3		369	618	0.3	Machinery
Food, beverages and tobacco	101			18			9.5	4.6	3.5		794						29		395	1 337	29	Food, beverages and tobacco
Pulp, paper and printing	18			15			2.6	11	1.4	0.5	642						1 119	7.6	258	2 060	1 119	Pulp, paper and printing
Wood and wood products				14			8.1	2.5	3.4		56						145		77	292	145	Wood and wood products
Textiles and leather	0.2										29								42	72		Textiles and leather
Non-specified industry	25	23		23			13		1.8	8.2	360						11		441	883	11	Non-specified industry
Transport sector				22 688	15 026	2 390	5 256	14	2.7		1 285						1 880		73	25 926	1 880	Transport sector
Domestic air transport				2 411	20	2 390														2 411		Domestic air transport
Road				19 564	14 864		4 697		2.7		61						1 812		46	21 483	1 812	Road
Rail				420			420										51		27	498	51	Rail
Inland waterways				294	141		139	14									17			311	17	Inland waterways
Non-specified transport											1 224									1 224		Non-specified transport
Other sector	11			1 552	228		967	13	324	19	7 799			15	140		752	11	10 949	21 230	907	Other sector
Residential				609			373		218	18	4 450			15	65		595		5 324	11 058	675	Residential
Commerce and public services	11			497	125		276	13	81	1.3	3 287				74		50	11	4 815	8 746	125	Commerce and public services
Agriculture				447	103		318	0.4	26		62						107		269	885	107	Agriculture
Fishery																						Fishery
Non-specified																			540	540		Non-specified
Non-energy				5 862			41		1 432	4 390	691									6 553		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	737 758	4 208		33 107		20	6 751	11 670		6 385	1865 300	246 757	808 076	19 500	217 532	425 941	52 346	19 882		4430 407	962 076	Electricity generated (GWh)
Electricity plants	724 859	45		21 210		20	6 556	10 121		4 278	1631 715	246 757	808 076	19 500	217 532	425 941	24 696	15 960		4136 290	934 426	Electricity plants
CHP plants	12 899	4 163		11 898			195	1 548		2 107	233 585						27 650	3 921		294 116	27 650	CHP plants
Heat generated (PJ)	11			31				2		3	332						37	7		417	37	Heat generated (PJ)
Heat plants																						Heat plants
CHP plants	11			31				2		3	332						37	7		417	37	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of the United States

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/diesel oil	Fuel oil	LPG	Other products												
Production	12 072	if(	32 330								35 785	924	8 767	398	820	1 581	4 303	176		97 156	8 026	Production
Import	137	1.8	14 699	3 051	1 306	259	416	476	243	351	2 944						79		205	21 116	79	Import
Export	-2 127	- 61	-8 395	-9 525	-1 832	- 376	-2 499	- 227	-2 677	-1 914	-6 720						- 147		- 57	-27 031	- 147	Export
International marine bunkers				- 676			- 241	- 435									-5.5			- 682	-5.5	International marine bunkers
International aviation bunkers				- 960		- 960														- 960		International aviation bunkers
Stock changes	-8.9	1.3	1 200	-2.1	45		58	- 31	- 92	18	283						- 10			1 463	- 10	Stock changes
Total primary energy supply	10 074	- 58	39 834	-8 113	- 481	-1 075	-2 267	- 217	-2 526	-1 545	32 292	924	8 767	398	820	1 581	4 220	176	148	91 064	7 942	Total primary energy supply
Transfers			-6 161	6 584	313	4.3	95	-0.1	3 629	2 543										423		Transfers
Total transformation sector	-9 489	226	-35 242	33 696	15 374	3 311	9 784	405	509	4 312	-12 632	- 924	-8 767	- 383	- 688	-1 581	- 632	- 150	16 521	-20 044	-4 208	Total transformation sector
Main activity producers	-8 896	-6.0		- 344		-0.8	- 97	- 150		- 96	-11 886	- 919	-8 767	- 383	- 535	-1 580	- 380	- 78	15 759	-18 016	-3 798	Main activity producers
Autoproducers	- 34	- 14		- 62			-2.5	-1.3		- 58	- 655	-4.3			- 153	-1.1	- 222	- 71	762	- 454	- 380	Autoproducers
Gas processing	- 72										77						- 30			- 25	- 30	Gas processing
Petroleum refineries			-35 453	34 101	15 374	3 312	9 884	556	509	4 466										-1 352		Petroleum refineries
Coal transformation	- 486	246																		- 240		Coal transformation
Other transformation			211								- 168									43		Other transformation
Losses & own use		- 39		-1 179	- 28	-1.7	- 87	- 23	-6.9	-1 032	-2 891						-1.2		-2 018	-6 129	-1.2	Losses & own use
Discrepancy	- 161		1 569	97			97				- 627						- 36			841	- 36	Discrepancy
Total final consumption	424	129		31 085	15 177	2 239	7 622	165	1 605	4 277	16 142			15	131		3 550	26	14 651	66 154	3 696	Total final consumption
Total final energy consumption	424	129		25 567	15 177	2 239	7 574	165	329	84	15 469			15	131		3 550	26	14 651	59 963	3 696	Total final energy consumption
Industry sector	410	129		905	5.7		668	121	37	74	5 815						1 266	15	3 222	11 762	1 266	Industry sector
Mining and quarrying				79	5.7		49	24			88						0.7		140	307	0.7	Mining and quarrying
Construction				531			515		16		234						7.2		275	1 046	7.2	Construction
Iron and steel	4.6	105		9.7			3.8	5.6	0.3		241						0.1		217	577	0.1	Iron and steel
Chemical & petrochemical	59			105			42	41	4.1	18	2 396						3.3	8.0	526	3 097	3.3	Chemical & petrochemical
Non-ferrous metals				5.3			0.7		0.3	4.2	159								146	311		Non-ferrous metals
Non-metallic minerals	180			47			13	3.8	0.8	30	401						16		161	806	16	Non-metallic minerals
Transportation equipment				19			2.2	16	0.8		159						0.2		179	357	0.2	Transportation equipment
Machinery	2.2			14			5.7		6.1	2.5	227						0.1		361	605	0.1	Machinery
Food, beverages and tobacco	107			21			11	7.4	3.1		766						24		389	1 308	24	Food, beverages and tobacco
Pulp, paper and printing	28			23			2.9	19	1.2	0.4	649						1 088	6.9	259	2 054	1 088	Pulp, paper and printing
Wood and wood products				16			9.1	4.0	3.0		61						118		79	274	118	Wood and wood products
Textiles and leather	0.3										29								43	73		Textiles and leather
Non-specified industry	29	24		35			14		1.6	19	404						7.9		447	947	7.9	Non-specified industry
Transport sector				23 029	14 945	2 239	5 820	23	2.4		1 257						1 612		60	25 958	1 612	Transport sector
Domestic air transport				2 261	22	2 239														2 261		Domestic air transport
Road				19 985	14 783		5 200		2.4		64						1 571		34	21 654	1 571	Road
Rail				463			463										32		26	522	32	Rail
Inland waterways				320	140		157	23									8.6			329	8.6	Inland waterways
Non-specified transport											1 193									1 193		Non-specified transport
Other sector	14			1 633	227		1 086	21	289	9.3	8 398			15	131		672	11	11 369	22 243	818	Other sector
Residential				622			419		194	8.6	4 884			15	57		546		5 431	11 554	618	Residential
Commerce and public services	14			528	125		311	21	72	0.8	3 452				74		47	11	4 896	9 022	121	Commerce and public services
Agriculture				483	102		357	0.6	23		62						79		263	887	79	Agriculture
Fishery																						Fishery
Non-specified																			780	780		Non-specified
Non-energy				5 518			48		1 276	4 194	673									6 191		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	909 427	3 875		42 513		57	10 083	15 044		8 854	1740 421	256 601	803 669	19 142	187 071	439 270	57 147	13 766		4472 902	959 232	Electricity generated (GWh)
Electricity plants	892 779			30 292		57	9 718	13 507		6 607	1518 032	256 601	803 669	19 142	187 071	439 270	27 006	9 560		4183 423	929 091	Electricity plants
CHP plants	16 648	3 875		12 221			365	1 537		2 247	222 389						30 141	4 206		289 479	30 141	CHP plants
Heat generated (PJ)	15			30				2		3	331						37	6		419	37	Heat generated (PJ)
Heat plants																						Heat plants
CHP plants	15			30				2		3	331						37	6		419	37	CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of the United States

	Petajoules																										
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total																											Total
Primary energy supply	80 155	86 522	95 160	93 352	94 417	94 635	96 584	97 044	96 123	97 818	95 295	90 593	92 777	91 519	89 762	91 345	92 439	91 482	90 490	90 126	92 684	92 646	85 260	89 625	91 064	89 734	Primary energy supply
Production	69 169	69 442	69 771	70 662	69 288	68 385	68 856	68 248	69 221	69 831	71 207	70 544	72 160	74 596	75 885	78 298	84 038	84 572	80 084	83 302	90 225	96 599	90 361	92 780	97 156	101 586	Production
Import	18 946	22 448	29 394	30 656	29 932	31 661	34 162	35 252	35 288	35 232	33 571	30 256	30 372	28 954	26 610	24 333	22 948	23 481	24 959	25 063	24 465	22 576	19 851	21 262	21 116	21 472	Import
Export	-4 631	-4 303	-4 006	-3 662	-3 593	-3 962	-4 283	-4 432	-4 747	-5 347	-6 966	-6 782	-8 026	-10 028	-10 885	-11 149	-12 136	-12 742	-13 829	-17 763	-21 136	-23 409	-23 231	-25 018	-27 031	-29 549	Export
Final energy consumption	49 173	51 790	58 332	57 221	57 241	58 071	58 842	58 890	58 708	59 569	58 278	55 342	57 678	56 290	54 685	57 028	57 413	57 540	57 719	57 522	60 313	59 786	55 111	58 071	59 963	58 822	Final energy consumption
Industry	11 880	11 422	13 912	12 974	11 588	11 568	11 969	11 572	12 090	11 954	11 692	10 339	11 322	10 997	11 111	11 078	11 087	11 027	11 147	10 945	11 518	11 221	11 075	11 634	11 762	11 665	Industry
Transport	20 414	22 088	24 629	24 665	25 014	25 399	25 766	26 079	26 184	26 319	25 162	24 072	24 943	24 352	23 983	24 825	24 719	25 619	25 915	26 067	26 603	26 576	22 900	25 327	25 958	25 926	Transport
Residential	8 788	10 371	11 056	10 813	10 964	11 355	11 150	11 374	10 614	11 193	11 215	10 993	11 309	10 974	10 053	11 067	11 333	10 714	10 352	10 254	11 344	11 334	11 049	11 147	11 554	11 058	Residential
Commerce & public services	6 668	7 256	8 083	8 092	8 212	8 341	8 411	8 390	8 266	8 571	8 658	8 595	8 681	8 609	8 206	8 642	8 853	8 713	8 750	8 685	9 110	9 068	8 407	8 725	9 022	8 746	Commerce & public services
Others	1 424	654	654	677	1 464	1 407	1 545	1 474	1 554	1 531	1 551	1 344	1 423	1 358	1 333	1 417	1 421	1 468	1 555	1 571	1 737	1 587	1 680	1 239	1 667	1 425	Others
Coal and peat																											Coal and peat
Primary energy supply	19 236	19 793	22 253	21 918	22 229	22 182	22 943	23 293	22 947	23 152	22 764	20 295	21 001	20 002	17 730	18 120	18 093	15 695	14 299	13 877	13 448	11 535	9 295	10 683	10 074	8 478	Primary energy supply
Production	22 683	22 151	22 438	23 631	22 829	22 022	23 161	23 623	24 134	23 753	24 205	22 151	22 220	22 412	20 704	19 979	20 307	18 057	14 589	15 624	15 449	14 482	10 788	11 743	12 072	11 847	Production
Import	69	179	320	523	451	632	685	728	864	865	789	525	447	308	214	208	264	250	212	169	128	142	107	116	137	87	Import
Export	-2 831	-2 368	-1 574	-1 229	-992	-1 062	-1 138	-1 187	-1 192	-1 414	-1 967	-1 425	-1 981	-2 628	-3 081	-2 828	-2 370	-1 818	-1 490	-2 378	-2 841	-2 309	-1 702	-2 097	-2 127	-2 491	Export
Transformation sector	-17 728	-19 605	-21 838	-21 788	-20 950	-21 309	-21 458	-21 786	-21 428	-21 778	-21 402	-18 900	-20 019	-18 904	-16 639	-17 273	-17 226	-14 914	-13 800	-13 523	-12 899	-10 954	-8 831	-10 230	-9 489	-7 802	Transformation sector
Power generation	-16 580	-18 562	-20 909	-20 933	-18 071	-17 737	-17 758	-17 818	-18 124	-17 594	-20 673	-18 374	-19 331	-18 200	-15 962	-16 584	-16 538	-14 233	-13 204	-12 894	-12 251	-10 326	-8 311	-9 620	-8 930	-7 259	Power generation
Final energy consumption	1 795	955	1 074	1 125	1 078	1 069	1 076	1 047	1 032	1 005	1 041	843	904	811	737	749	747	671	562	537	512	477	403	418	424	375	Final energy consumption
Industry	1 392	838	981	1 025	977	971	947	941	967	932	969	777	841	756	699	717	711	643	540	517	494	461	389	403	410	363	Industry
Transport																											Transport
Residential	62	71	56	52																							Residential
Commerce & public services	101	46	37	48	91	83	104	88	64	71	72	66	63	54	38	32	36	28	23	20	18	16	14	14	14	11	Commerce & public services
Others	240				10	15	24	18	1.0	2.0																	Others
Coal and peat products																											Coal and peat products
Primary energy supply	5.1	18	64	61	66	55	146	40	62	28	40	- 21	-4.6	11	7.8	- 25	- 21	- 35	1.6	- 30	- 21	- 25	- 15	- 48	- 58	- 30	Primary energy supply
Production																											Production
Import	20	48	99	66	85	72	180	92	106	64	94	9.1	32	37	30	3.6	2.0	3.7	6.0	1.5	3.1	3.0	4.2	3.1	1.8	5.4	Import
Export	- 15	- 20	- 30	-7.2	- 21	- 19	- 34	- 46	- 42	- 38	- 51	- 34	- 38	- 25	- 25	- 22	- 25	- 22	- 26	- 32	- 30	- 25	- 18	- 55	- 61	- 40	Export
Transformation sector	578	324	283	246	387	396	486	487	385	494	254	205	282	273	243	278	266	235	215	251	259	238	189	242	226	209	Transformation sector
Power generation		- 99	- 91	- 106	-2 082	-2 787	-2 892	-3 244	-2 594	-3 436	- 56	- 36	- 44	- 47	- 49	- 40	- 42	- 35	- 25	- 22	- 25	- 25	- 22	- 23	- 20	- 22	Power generation
Final energy consumption	534	316	289	258	242	291	375	265	296	293	217	142	220	217	180	189	183	146	171	175	189	168	138	150	129	139	Final energy consumption
Industry	534	316	289	258	242	291	375	265	296	293	217	142	220	217	180	189	183	146	171	175	189	168	138	150	129	139	Industry
Transport																											

Major economic indicators of the United States

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹¹	249.62	252.98	256.51	259.92	263.13	266.28	282.16	284.97	287.63	290.11	292.81	295.52	298.38	301.23	304.09	306.77	309.33	311.58	313.88	316.06	318.39	320.74	323.07	325.12	326.84	328.33	331.51	332.03	333.27	336.81	Population (million) ¹¹
Gross domestic product ¹³																															Gross domestic product ¹³
Real term, billion USD (constant 2015)	9 811	9 800	10 146	10 425	10 845	11 136	13 754	13 886	14 121	14 516	15 075	15 600	16 034	16 357	16 377	15 951	16 383	16 637	17 016	17 330	17 726	18 206	18 510	18 925	19 482	19 929	19 377	20 529	21 236	22 063	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	10 098	10 087	10 442	10 729	11 162	11 461	14 156	14 291	14 534	14 940	15 515	16 056	16 503	16 835	16 855	16 417	16 862	17 123	17 513	17 836	18 244	18 738	19 050	19 477	20 051	20 511	19 943	21 129	24 051	24 977	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	5 963	6 158	6 520	6 859	7 287	7 640	10 251	10 582	10 929	11 456	12 217	13 039	13 816	14 474	14 770	14 478	15 049	15 600	16 254	16 843	17 551	18 206	18 695	19 477	20 533	21 381	21 060	23 315	25 744	27 721	Nominal, billion USD (current)
GDP per capita ¹³																															GDP per capita ¹³
Real term (constant 2015 USD)	39 303	38 740	39 552	40 108	41 215	41 821	48 746	48 727	49 095	50 036	51 485	52 790	53 738	54 300	53 854	51 996	52 963	53 395	54 213	54 831	55 675	56 763	57 293	58 208	59 607	60 698	58 452	61 830	63 721	65 505	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	40 451	39 871	40 707	41 280	42 419	43 042	50 170	50 150	50 529	51 498	52 989	54 332	55 308	55 886	55 427	53 515	54 510	54 954	55 797	56 432	57 302	58 421	58 966	59 908	61 348	62 471	60 159	63 636	72 165	74 159	GDP, PPP (constant 2021 USD)
Nominal (current USD)	23 889	24 342	25 419	26 387	27 695	28 691	36 330	37 134	37 998	39 490	41 725	44 123	46 302	48 050	48 570	47 195	48 651	50 066	51 784	53 291	55 124	56 763	57 867	59 908	62 823	65 120	63 529	70 219	77 247	82 305	Nominal (current USD)
Nominal GDP & its components (billion of current USD) ¹¹																															Nominal GDP & its components (billion of current USD) ¹¹
Gross domestic product	5 963	6 158	6 520	6 859	7 287	7 640	10 251	10 582	10 929	11 456	12 217	13 039	13 816	14 474	14 770	14 478	15 049	15 600	16 254	16 843	17 551	18 206	18 695	19 477	20 533	21 381	21 060	23 315	25 744	27 721	Gross domestic product
Household final consumption expenditure	3 809	3 943	4 198	4 452	4 721	4 963	6 767	7 074	7 349	7 741	8 232	8 769	9 277	9 747	10 050	9 891	10 260	10 699	11 047	11 364	11 848	12 263	12 693	13 234	13 905	14 393	14 116	15 903	17 512	18 823	Household final consumption expenditure
General government final consumption expenditure	948	1 005	1 048	1 073	1 108	1 142	1 438	1 538	1 646	1 746	1 852	1 962	2 073	2 199	2 353	2 433	2 511	2 511	2 515	2 533	2 566	2 609	2 663	2 727	2 867	3 009	3 138	3 354	3 570	3 724	General government final consumption expenditure
Gross fixed capital formation	1 269	1 239	1 293	1 378	1 487	1 594	2 373	2 385	2 354	2 477	2 703	2 990	3 183	3 231	3 136	2 723	2 756	2 923	3 172	3 322	3 563	3 723	3 809	4 022	4 295	4 485	4 489	4 940	5 476	5 930	Gross fixed capital formation
Stock change	15	-0.4	16	21	64	31	55	- 38	20	14	64	58	69	34	- 29	- 151	54	46	71	105	84	137	36	32	59	73	- 56	- 19	157	42	Stock change
Exports of goods and services	552	595	633	655	721	813	1 096	1 027	998	1 035	1 176	1 302	1 470	1 659	1 835	1 583	1 857	2 116	2 218	2 287	2 377	2 269	2 232	2 388	2 538	2 538	2 149	2 540	2 995	3 052	Exports of goods and services
Imports of goods and services	630	624	668	720	813	903	1 477	1 404	1 438	1 557	1 811	2 041	2 257	2 395	2 576	2 002	2 390	2 695	2 769	2 766	2 887	2 795	2 738	2 925	3 131	3 117	2 776	3 401	3 966	3 850	Imports of goods and services
Real GDP & its components (billion of 2019 USD) ¹¹																															Real GDP & its components (billion of 2019 USD) ¹¹
Gross Domestic Product	9 811	9 800	10 146	10 425	10 845	11 136	13 754	13 886	14 121	14 516	15 075	15 600	16 034	16 357	16 377	15 951	16 383	16 637	17 016	17 330	17 726	18 206	18 510	18 925	19 482	19 929	19 377	20 529	21 236	22 671	Gross Domestic Product
Household final consumption expenditure	6 212	6 223	6 452	6 677	6 935	7 140	8 936	9 157	9 390	9 687	10 052	10 408	10 710	10 970	10 987	10 843	11 050	11 238	11 392	11 561	11 874	12 263	12 567	12 867	13 237	13 500	13 096	14 182	14 683	15 622	Household final consumption expenditure
General government final consumption expenditure	2 001	2 036	2 049	2 048	2 059	2 064	2 245	2 325	2 414	2 455	2 493	2 514	2 545	2 585	2 649	2 762	2 762	2 677	2 638	2 588	2 568	2 609	2 658	2 655	2 688	2 778	2 839	2 877	2 856	3 012	General government final consumption expenditure
Gross fixed capital formation	1 727	1 636	1 726	1 819	1 983	2 040	2 991	2 872	2 885	3 004	3 239	3 421	3 526	3 469	3 253	2 713	2 997	3 123	3 363	3 520	3 674	3 860	3 841	3 989	4 201	4 320	4 155	4 444	4 784	5 002	Gross fixed capital formation
Stock change	21	-2.3	23	28	88	40	78	- 53	24	20	82	63	87	40	- 32	- 176	57	46	71	108	86	137	35	36	66	73	- 54	- 19	134	33	Stock change
Exports of goods and services	660	704	752	777	845	932	1 313	1 240	1 216	1 241	1 361	1 455	1 593	1 733	1 833	1 681	1 897	2 033	2 115	2 178	2 263	2 269	2 278	2 375	2 442	2 453	2 128	2 257	2 426	2 524	Exports of goods and services
Imports of goods and services	719	718	768	834	934	1 008	1 752	1 709	1 771	1 862	2 067	2 201	2 342	2 402	2 351	2 054	2 325	2 437	2 496	2 527	2 657	2 795	2 835	2 963	3 088	3 123	2 843	3 245	3 535	3 457	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																															Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1.2	1.1	1.0	1.1	1.1	1.2	1.1	0.9	0.9	1.1	1.0	0.9	0.9	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.2	0.9	N.A.	98.7	Agriculture, Fishery and Forestry
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	21.7	20.8	20.5	20.5	20.8	20.5	20.8	20.8	20.0	18.9	18.9	18.7	18.6	18.7	18.6	18.6	18.4	18.6	18.6	18.6	18.4	18.0	N.A.	N.A.	Industry
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	75.1	76.0	76.3	76.1	75.6	76.0	75.8	75.7	76.3	77.4	77.2	77.3	77.3	76.7	76.7	76.7	76.9	76.7	76.7	76.7	77.0	77.5	N.A.	1.5	Services, etc.
Industrial production index (2010=100) ¹²	68.2	67.2	69.1	71.4	75.2	79.0	101.2	98.0	98.4	99.7	102.4	105.8	108.2	110.9	107.1	94.8	100.0	103.1	106.2	108.3	111.6	110.0	107.6	109.0	112.5	111.7	103.7	108.2	111.9	112.2	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																															External trade (billions of current USD) ¹¹
Exports, f.o.b.	393.6	421.7	448.2	464.8	512.6	584.7	781.9	729.1	693.1	724.8	814.9	901.1	1026.0	1148.2	1287.4	1056.0	1 278.5	1 482.5	1 545.7	1 579.6	1 620.5	1 502.6	1 451.0	1 546.3	1 664.0	1 643.2	1 424.9	1 754.3	2 065.2	2 018.1	Exports, f.o.b.
Imports, c.i.f.	517.0	508.4	553.9	603.4	689.2	770.9	1 259.3	1 179.2	1 200.2	1 303.1	1 525.7	1 732.7	1918.1	2020.4	2169.5	1605.3	1 969.2	2 266.0	2 336.5	2 329.1	2 412.5	2 315.3	2 250.2	2 408.5	2 614.2	2 567.4	2 406.9	2 935.3	3 371.8	3 168.2	Imports, c.i.f.
Balance of payments (billion of current USD) ¹²																															Balance of payments (billion of current USD) ¹²
Trade balance	-111.0	-76.9	-96.9	-132.5	-165.8	-174.2	-446.8	-422.4	-475.2	-541.6	-664.8	-782.8	-837.3	-821.2	-832.5	-509.7	-648.7	-741.0	-741.1	-700.5	-749.9	-761.9	-749.8	-799.3	-878.7	-857.3	-912.9	-1083.5	-1183.0	-1057.5	Trade balance
Current account	-79.0	2.9	-51.6	-84.8	-121.6	-113.6	-401.9	-394.1	-456.1	-522.3	-635.9	-749.2	-816.6	-736.6	-696.5	-379.7	-432.0	-455.3	-418.1	-339.5	-370.0	-408.4	-396.2	-367.6	-439.9	-441.7	-597.1	-831.5	-971.6	-928.0	Current account
Overall balance	-26.0	35.8	39.9	-4.9	-3.9	-21.2	72.5	25.0	46.4	8.2	-100.8	-48.3	-0.9	-109.7	55.2	-94.1	9.3	77.5	35.3	51.0	-83.0	-36.3	-38.3	16.3	-136.2	114.8	75.2	69.1	-165.6	138.1	Overall balance
Foreign exchange rate (USD/USD) ¹¹	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Foreign exchange rate (USD/USD) ¹¹
PPP conversion factor, GDP (USD/USD) ¹¹	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	PPP conversion factor, GDP (USD/USD) ¹¹
Price Indices																															Price Indices
GDP Deflator (2015=100) ¹³	60.8	62.8	64.3	65.8	67.2	68.6	74.5	76.2	77.4	78.9	81.0	83.6	86.2	88.5	90.2	90.8	91.9	93.8	95.5	97.2	99.0	100.0	101.0	102.9	105.4	107.3	108.7	113.6	121.2	122.3	GDP Deflator (2015=100) ¹³
Producer Prices Index (2010=100) ¹²	6																														

Viet Nam

Energy balance table of Viet Nam

2023

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	970		378								271	290			98	42	397			2 446	826	Production
Import	1 181		478	565	90	79	237	26	84	50							0.1		15	2 239	0.1	Import
Export	- 19		- 118	- 113	-4.7	- 55	- 29	- 12	- 11	-1.0							-7.4		-2.7	- 260	-7.4	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	- 59		- 103	-0.3	-1.2	-0.1	1.3	-0.2												- 163		Stock changes
Total primary energy supply	2 072		635	452	84	23	210	13	72	49	271	290			98	42	389		13	4 262	819	Total primary energy supply
Transfers			-9.8	9.8					9.8													Transfers
Total transformation sector	-1 214		- 625	591	237	27	274	7.6	22	23	- 190	- 290			- 98	- 42	- 102		1 001	- 970	- 532	Total transformation sector
Main activity producers	-1 214			- 27			- 21	-5.6			- 190	- 290			- 98	- 42	- 49		1 001	- 909	- 479	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 625	617	237	27	295	13	22	23										-7.9		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	- 53			- 53	- 53	Other transformation
Losses & own use																			- 116	- 116		Losses & own use
Discrepancy	- 49																			- 49		Discrepancy
Total final consumption	810			1 052	321	50	484	21	104	73	81						287		898	3 128	287	Total final consumption
Total final energy consumption	791			980	321	50	484	21	104	0.1	38						287		898	2 994	287	Total final energy consumption
Industry sector	791			139			114	6.7	17		38						215		442	1 625	215	Industry sector
Mining and quarrying	18			28			28												19	65		Mining and quarrying
Construction	0.6			11			11		0.3										10	22		Construction
Iron and steel	59			43			38	1.3	3.4		12								63	176		Iron and steel
Chemical & petrochemical	44			6.8			4.8	1.0	1.0		16								41	108		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	513			18			12	2.9	3.0		7.1						11		36	585	11	Non-metallic minerals
Transportation equipment				4.9			2.1	0.2	2.5		0.6								3.1	8.5		Transportation equipment
Machinery				8.3			3.1	0.7	4.5		1.1								46	56		Machinery
Food, beverages and tobacco	23			6.7			5.6	0.5	0.5		0.9						36		70	136	36	Food, beverages and tobacco
Pulp, paper and printing	32			1.7			1.4		0.3		0.2						18		14	65	18	Pulp, paper and printing
Wood and wood products	0.3			2.3			2.3										13		20	36	13	Wood and wood products
Textiles and leather	64			4.7			3.8		0.9		0.2						30		52	151	30	Textiles and leather
Non-specified industry	38			2.7			1.9		0.9		0.1						108		68	216	108	Non-specified industry
Transport sector				646	314	50	268	14			0.2						0.9			647	0.9	Transport sector
Domestic air transport				50		50														50		Domestic air transport
Road				546	314		232				0.2						0.9			547	0.9	Road
Rail				1.4			1.4													1.4		Rail
Inland waterways				49			35	14												49		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				195	6.7		101		87	0.1							71		455	721	71	Other sector
Residential				79					79	0.1							49		308	437	49	Residential
Commerce and public services				9.9			2.2		7.7								2.1		114	126	2.1	Commerce and public services
Agriculture				106	6.7		99										20		22	148	20	Agriculture
Fishery																			11	11		Fishery
Non-specified																						Non-specified
Non-energy	19			73						73	42									134		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	130 191			1 277							26 372	80 595			27 222	11 583	867			278 107	120 267	Electricity generated (GWh)
Electricity plants	130 191			1 277							26 372	80 595			27 222	11 583	867			278 107	120 267	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.

2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Energy balance table of Viet Nam

2022

	Petajoules																					
	Coal	Coal products	Crude oil & NGL	Petroleum products							Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
				Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products												
Production	1 023		400								287	345			102	33	398			2 589	878	Production
Import	743		437	515	84	62	206	25	90	48							0.1		12	1 708	0.1	Import
Export	- 28		- 111	- 93	-8.7	- 34	- 23	- 16	- 10	-1.6							-5.0		-3.4	- 241	-5.0	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	70		-6.6	20	2.2	-3.0	21	0.2												84		Stock changes
Total primary energy supply	1 808		720	442	78	25	204	9.8	79	46	287	345			102	33	393		8.4	4 139	873	Total primary energy supply
Transfers			- 16	16					16													Transfers
Total transformation sector	-1 101		- 703	608	228	22	276	16	23	44	- 209	- 345			- 102	- 33	- 98		964	-1 019	- 578	Total transformation sector
Main activity producers	-1 101			-1.4			-1.0	-0.4			- 209	- 345			- 102	- 33	- 54		964	- 882	- 535	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 703	610	228	22	277	16	23	44										- 94		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	- 43			- 43	- 43	Other transformation
Losses & own use																			- 115	- 115		Losses & own use
Discrepancy	-1.3																		-1.1	-2.4		Discrepancy
Total final consumption	706			1 067	306	47	480	26	119	90	78						296		857	3 003	296	Total final consumption
Total final energy consumption	693			977	306	47	480	26	119	0.1	41						296		857	2 864	296	Total final energy consumption
Industry sector	687			152			120	13	19		41						214		451	1 545	214	Industry sector
Mining and quarrying	15			30			30												20	65		Mining and quarrying
Construction	0.5			12			11		0.3										10	22		Construction
Iron and steel	51			47			40	2.4	3.8		13								67	177		Iron and steel
Chemical & petrochemical	38			8.0			5.0	1.8	1.2		17								42	106		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	446			21			13	5.5	3.3		7.6						11		41	527	11	Non-metallic minerals
Transportation equipment				5.5			2.3	0.4	2.8		0.6								3.2	9.3		Transportation equipment
Machinery				9.6			3.2	1.4	5.0		1.1								45	55		Machinery
Food, beverages and tobacco	20			7.5			5.9	1.0	0.6		1.0						34		68	130	34	Food, beverages and tobacco
Pulp, paper and printing	28			1.8			1.5		0.3		0.3						17		13	60	17	Pulp, paper and printing
Wood and wood products	0.2			2.4			2.3										12		22	36	12	Wood and wood products
Textiles and leather	56			5.0			3.9	0.1	1.0		0.2						29		55	145	29	Textiles and leather
Non-specified industry	33			3.0			2.0		1.0		0.1						112		64	212	112	Non-specified industry
Transport sector				624	299	47	264	13			0.5						0.8			625	0.8	Transport sector
Domestic air transport				47		47														47		Domestic air transport
Road				528	299		228				0.5						0.8			529	0.8	Road
Rail				1.4			1.4													1.4		Rail
Inland waterways				47			34	13												47		Inland waterways
Non-specified transport																						Non-specified transport
Other sector	5.7			202	6.4		96		99	0.1							81		406	694	81	Other sector
Residential	5.6			83					83	0.1							59		274	422	59	Residential
Commerce and public services	0.1			18			1.0		17								2.1		101	121	2.1	Commerce and public services
Agriculture				101	6.4		95										19		19	140	19	Agriculture
Fishery																			11	11		Fishery
Non-specified																						Non-specified
Non-energy	13			89						89	37									139		Non-energy
Electricity and heat output																						
Electricity generated (GWh)	104 541			78			29 410	95 929			29 410	95 929			28 397	9 090	378			267 823	133 794	Electricity generated (GWh)
Electricity plants	104 541			78							29 410	95 929			28 397	9 090	378			267 823	133 794	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

1. Other renewables include ocean energy (tide, wave, ocean thermal energy conversion), solid biomass, biogases, liquid biofuels, and renewable municipal solid wastes.
2. Others include, peat and peat products, oil shale and tar sands, industrial waste, non-renewable municipal waste and other non-specified energy.

Major energy indicators of Viet Nam

	Petajoules																											
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Total	227	382	608	677	791	853	1 030	1 051	1 179	1 312	1 447	1 625	2 013	2 020	2 060	2 100	2 535	2 579	2 882	2 969	3 523	3 956	4 009	3 936	4 139	4 262	Total	
Primary energy supply	243	568	1 066	1 130	1 243	1 353	1 753	1 864	1 997	2 031	1 939	2 125	2 320	2 416	2 457	2 426	2 659	2 447	2 460	2 429	2 464	2 433	2 211	2 444	2 589	2 446	Primary energy supply	
Production	123	214	372	387	425	438	489	516	516	646	646	654	563	563	500	451	524	718	931	1 032	1 346	1 910	2 244	1 715	1 708	2 239	Production	
Import	- 131	- 411	- 781	- 847	- 877	- 924	- 1 169	- 1 259	- 1 297	- 1 450	- 1 093	- 1 233	- 886	- 849	- 828	- 719	- 620	- 492	- 458	- 483	- 392	- 341	- 321	- 282	- 241	- 260	Import	
Export																											Export	
Final energy consumption	175	321	494	552	636	704	841	861	937	1 010	1 139	1 281	1 538	1 629	1 657	1 711	1 935	1 820	2 015	2 137	2 414	2 581	2 633	2 616	2 864	2 994	Final energy consumption	
Industry	72	130	195	220	251	276	358	343	379	424	517	572	658	704	727	772	943	820	847	910	1 139	1 265	1 440	1 461	1 545	1 625	Industry	
Transport	59	106	158	171	208	233	244	289	317	340	363	430	422	453	448	441	449	471	522	568	596	620	521	481	625	647	Transport	
Residential	20	45	80	93	104	120	154	137	151	157	168	185	365	367	379	389	416	369	451	438	437	437	427	433	422	437	Residential	
Commerce & public services	14	26	44	52	54	54	64	70	67	65	66	69	69	79	77	85	89	80	87	97	111	119	109	95	121	126	Commerce & public services	
Others	10	15	17	17	19	20	21	23	24	24	25	25	24	26	26	25	38	80	108	124	132	140	136	147	151	159	Others	
Coal and peat																											Coal and peat	
Primary energy supply	93	139	183	210	231	275	349	297	379	403	500	527	617	653	661	722	836	944	1 071	1 086	1 502	1 878	2 083	1 864	1 808	2 072	Primary energy supply	
Production	109	196	272	304	373	445	641	760	912	1 013	933	1 025	1 032	1 093	994	962	963	852	807	796	885	937	890	991	1 023	970	Production	
Import									2.4	2.7	16	16	19	27	32	40	53	73	162	309	344	533	1 027	1 285	853	743	1 181	Import
Export	- 18	- 66	- 76	- 101	- 142	- 170	- 273	- 422	- 500	- 748	- 454	- 586	- 465	- 402	- 357	- 300	- 170	- 41	- 29	- 52	- 56	- 27	- 21	- 42	- 28	- 19	Export	
Transformation sector	- 37	- 30	- 48	- 54	- 63	- 93	- 70	- 89	- 147	- 150	- 156	- 154	- 203	- 231	- 256	- 280	- 356	- 613	- 711	- 703	- 938	- 1 227	- 1 230	- 1 188	- 1 101	- 1 214	Transformation sector	
Power generation	- 37	- 30	- 48	- 54	- 63	- 93	- 70	- 89	- 147	- 150	- 156	- 154	- 203	- 231	- 256	- 280	- 356	- 613	- 711	- 703	- 938	- 1 227	- 1 230	- 1 188	- 1 101	- 1 214	Power generation	
Final energy consumption	55	109	135	157	168	182	279	207	231	252	343	373	414	423	405	442	480	313	342	361	539	623	829	690	693	791	Final energy consumption	
Industry	43	81	98	118	123	130	199	156	175	195	283	312	348	358	347	375	416	271	307	334	517	606	815	684	687	791	Industry	
Transport	0.6	0.1																									Transport	
Residential	7.9	20	30	32	36	42	66	36	42	42	45	46	50	48	45	50	47	39	33	25	21	16	13	6.7	5.6	Residential		
Commerce & public services	1.6	4.2	6.1	6.4	7.4	8.5	13	14	14	14	15	15	15	16	12	17	16	2.7	2.5	1.8	1.5	1.1	0.3	0.2	0.1		Commerce & public services	
Others	2.7	3.2	1.0	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8										Others	
Coal and peat products																											Coal and peat products	
Primary energy supply																											Primary energy supply	
Production																											Production	
Import																											Import	
Export																											Export	
Transformation sector																											Transformation sector	
Power generation																											Power generation	
Final energy consumption																											Final energy consumption	
Industry																											Industry	
Transport																											Transport	
Residential																											Residential	
Commerce & public services																											Commerce & public services	
Others																											Others	
Crude oil & NGL																											Crude oil & NGL	
Primary energy supply			0.9	0.6		6.0						83	278	254	264	290	345	296	314	296	535	679	691	709	720	635	Primary energy supply	
Production	115	326	694	714	708	750	855	793	733	679	635	695	639	648	715	713	743	721	645	591	526	486	394	403	400	378	Production	
Import																		7.8	19	27	230	338	503	430	437	478	Import	
Export	- 112	- 326	- 657	- 713	- 708	- 731	- 831	- 766	- 733	- 642	- 586	- 570	- 341	- 352	- 395	- 359	- 397	- 392	- 346	- 316	- 197	- 159	- 196	- 130	- 111	- 118	Export	
Transformation sector												- 83	- 278	- 254	- 264	- 290	- 345	- 296	- 314	- 281	- 516	- 662	- 674	- 693	- 703	- 625	Transformation sector	
Petroleum refineries		</																										

Major economic indicators of Viet Nam

	1990	1991	1992	1993	1994	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Population (million) ¹	67.99	69.44	70.88	72.30	73.65	74.91	79.91	80.74	81.53	82.30	83.06	83.83	84.62	85.42	86.24	87.09	87.97	88.87	89.80	90.75	91.71	92.68	93.64	94.60	95.55	96.46	96.65	97.47	99.47	100.35	Population (million) ¹
Gross domestic product ³																															Gross domestic product ³
Real term, billion USD (constant 2015)	45	48	52	56	61	67	94	99	106	113	121	131	140	150	158	167	177	189	199	210	224	239	255	273	293	315	324	332	359	379	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2021)	140	149	162	175	190	208	292	310	329	352	378	407	435	466	493	519	553	588	621	655	697	746	796	851	915	982	1 010	1 036	1 289	1 359	GDP, billion USD (PPP, constant 2021)
Nominal, billion USD (current)	6	10	10	13	16	21	31	33	35	40	45	58	66	77	99	106	147	173	196	214	233	239	257	281	310	334	347	366	410	434	Nominal, billion USD (current)
GDP per capita ³																															GDP per capita ³
Real term (constant 2015 USD)	663	688	732	775	828	892	1 170	1 230	1 295	1 372	1 461	1 557	1 650	1 752	1 833	1 913	2 016	2 123	2 217	2 315	2 438	2 582	2 726	2 886	3 070	3 265	3 352	3 409	3 612	3 775	Real term (constant 2015 USD)
GDP, PPP (constant 2021 USD)	2 066	2 144	2 281	2 417	2 583	2 782	3 649	3 835	4 038	4 276	4 556	4 855	5 146	5 461	5 715	5 965	6 285	6 620	6 912	7 219	7 602	8 049	8 499	8 996	9 572	10 179	10 451	10 628	12 958	13 546	GDP, PPP (constant 2021 USD)
Nominal (current USD)	95	138	139	182	221	277	390	405	430	481	547	687	784	906	1 149	1 217	1 673	1 942	2 178	2 355	2 545	2 582	2 746	2 974	3 246	3 466	3 586	3 756	4 125	4 323	Nominal (current USD)
Nominal GDP & its components (billion of current VND) ¹																															Nominal GDP & its components (billion of current VND) ¹
Gross domestic product	42	77	111	140	179	229	442	481	536	613	715	914	1 062	1 247	1 616	1 809	2 740	3 540	4 074	4 474	4 937	5 191	5 639	6 294	7 009	7 707	8 044	8 480	9 549	10 320	Gross domestic product
Household final consumption expenditure	N.A.	63	89	106	133	168	294	312	349	406	466	599	691	849	1 145	1 239	1 436	1 844	2 093	2 346	2 591	2 850	3 086	3 406	3 745	4 115	4 502	4 701	5 231	5 605	Household final consumption expenditure
General government final consumption expenditure	N.A.	6	6	10	15	19	28	30	33	39	46	50	59	69	91	105	129	164	192	221	247	266	293	326	359	390	763	815	853	913	General government final consumption expenditure
Gross fixed capital formation	N.A.	N.A.	N.A.	N.A.	43	58	122	140	167	205	238	286	333	438	514	613	704	745	785	847	938	1 034	1 066	1 190	1 322	1 463	2 436	2 686	2 940	3 107	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	2	4	9	10	11	13	16	23	34	56	76	60	66	82	99	109	118	127	131	140	149	158	132	152	170	159	Stock change
Exports of goods and services	15	24	38	40	61	75	238	265	293	348	427	582	719	879	1 137	1 133	1 554	2 207	2 597	2 997	3 402	3 764	4 216	5 086	5 866	6 448	6 788	7 911	8 958	8 924	Exports of goods and services
Imports of goods and services	19	28	43	53	78	96	254	274	332	415	524	613	749	1 048	1 357	1 304	1 731	2 322	2 484	2 920	3 274	3 731	4 100	4 945	5 679	6 255	6 344	7 901	8 592	8 086	Imports of goods and services
Real GDP & its components (billion of 2019 VND) ¹																															Real GDP & its components (billion of 2019 VND) ¹
Gross Domestic Product	696	738	801	866	943	1 033	1 445	1 535	1 632	1 744	1 876	2 017	2 158	2 312	2 443	2 574	2 740	2 916	3 076	3 247	3 455	3 697	3 944	4 218	4 533	4 866	5 006	5 134	5 551	5 854	Gross Domestic Product
Household final consumption expenditure	N.A.	N.A.	N.A.	N.A.	535	574	733	765	824	890	953	1 022	1 098	1 206	1 298	1 328	1 436	1 495	1 568	1 649	1 750	1 914	2 053	2 204	2 364	2 538	2 819	2 874	3 102	3 214	Household final consumption expenditure
General government final consumption expenditure	N.A.	N.A.	N.A.	N.A.	48	53	60	64	67	72	78	84	91	100	107	115	129	139	148	159	170	182	196	210	224	237	467	489	506	525	General government final consumption expenditure
Gross fixed capital formation	N.A.	N.A.	N.A.	N.A.	134	154	243	269	304	340	376	412	453	563	584	635	704	649	662	697	761	832	915	1 008	1 095	1 186	1 758	1 824	1 909	2 002	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	7	11	15	17	19	21	24	31	43	67	85	62	66	68	73	78	83	88	94	100	104	108	92	99	105	100	Stock change
Exports of goods and services	74	96	119	130	151	181	462	542	598	717	901	1 061	1 180	1 328	1 509	1 433	1 554	1 721	1 992	2 338	2 608	2 938	3 345	3 905	4 462	4 761	4 607	5 245	5 572	5 428	Exports of goods and services
Imports of goods and services	91	86	102	144	190	220	456	531	614	754	920	1 050	1 176	1 492	1 716	1 599	1 731	1 802	1 966	2 307	2 602	3 073	3 543	4 163	4 696	5 088	4 689	5 431	5 607	5 366	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																															Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	26.8	25.8	25.4	24.3	23.0	22.0	19.6	19.0	18.6	18.1	17.5	17.0	16.5	16.0	15.9	15.3	14.5	14.2	13.8	13.4	13.1	12.5	11.9	11.4	11.0	10.5	11.3	11.4	10.9	10.8	Agriculture, Fishery and Forestry
Industry	19.6	20.0	20.7	21.6	22.5	23.3	27.6	28.2	28.5	29.1	29.8	30.0	30.1	30.2	29.7	29.9	25.3	25.6	26.0	25.9	25.9	26.6	26.8	27.1	27.4	27.8	36.4	36.8	36.6	36.1	Industry
Services, etc.	32.9	33.4	33.0	33.2	33.4	33.5	31.6	31.5	31.7	31.6	31.4	31.7	32.2	32.6	33.2	33.5	29.1	29.4	29.7	30.0	30.0	29.8	29.9	30.0	29.9	29.9	42.9	42.5	43.3	44.1	Services, etc.
Industrial Production Index (2010=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	100.0	106.8	105.8	105.9	107.6	109.8	107.4	111.3	110.1	109.1	103.3	104.7	0.0	0.0	Industrial Production Index (2010=100)
External trade (billions of current USD) ¹																															External trade (billions of current USD) ¹
Exports, f.o.b.	2.4	2.1	2.6	3.0	4.1	5.4	14.5	15.0	16.7	20.1	26.5	32.4	39.8	48.6	62.7	57.1	72.2	96.9	114.5	132.0	150.2	162.1	176.6	215.0	243.7	264.3	282.6	335.9	371.3	353.8	Exports, f.o.b.
Imports, c.i.f.	2.8	2.3	2.5	3.5	5.8	8.2	15.6	16.2	19.7	25.3	32.0	36.8	45.0	62.7	80.7	69.9	84.8	106.8	113.8	132.0	147.8	165.6	174.8	212.9	236.9	253.4	262.7	331.6	359.1	325.8	Imports, c.i.f.
Balance of payments (billion of current USD) ²																															Balance of payments (billion of current USD) ²
Trade balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.4	0.5	-1.1	-2.6	-2.3	-2.4	-2.8	-10.4	-12.8	-7.6	-5.1	-0.5	9.9	8.7	12.1	7.4	11.0	10.8	16.5	21.5	30.7	17.5	25.7	44.0	Trade balance
Current account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1.1	0.7	-0.6	-1.9	-1.0	-0.6	-0.2	-7.0	-10.8	-6.6	-4.3	0.2	9.4	7.7	9.4	-2.0	0.6	-1.6	5.9	13.1	15.1	-4.6	-1.1	25.8	Current account
Overall balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.8	1.1	1.5	1.3	1.9	2.5	2.9	10.8	1.5	0.6	1.9	6.6	17.4	7.5	14.9	-1.1	11.4	18.4	14.4	32.5	23.5	26.2	8.4	23.0	Overall balance
Foreign exchange rate (VND/USD) ¹	6 538	10 122	11 202	10 641	10 966	11 038	14 168	14 725	15 280	15 510	15 746	15 859	15 994	16 105	16 302	17 065	18 613	20 510	20 828	20 933	21 148	21 698	21 935	22 370	22 602	23 050	23 208	23 160	23 271	23 787	Foreign exchange rate (VND/USD) ¹
PPP conversion factor, GDP (VND/USD) ¹	N.A.					3 761	3 985	3 859	3 944	3 981	4 178	4 376	4 553	4 796	5 687	6 090	6 544	7 528	7 568	7 953	8 013	7 789	7 716	7 808	7 891	7 967	8 124	7 902	7 174	7 114	PPP conversion factor, GDP (VND/USD) ¹
Price Indices																															Price Indices
GDP Deflator (2010=100) ³	6.0	10.4	13.8	16.2	18.9	22.2	30.6	31.4	32.8	35.2	38.1	45.3	49.2	53.9	66.2	70.3	100.0	121.4	132.4	137.8	142.9	140.4	143.0	149.2	154.6	158.4	160.7	165.2	172.0	176.3	GDP Deflator (2010=100) ³
Producer Price Index (2010=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	88.8	100.0	118.4	122.5	128.9	133.1	132.4	131.5	135.2	139.4	141.2	140.3	144.4	150.5	0.0	#
Consumer Price Index (2010=100)	N.A.	N.A.	N.A.	N.A.	N.A.	40.2	48.1	47.9	49.7	51.3	55.3	59.9	64.3	69.7	85.8	91.6	100.0	118.7	129.5	138.0	143.6	144.6	148.4	153.6	159.1	163.5	168.8	171.9	177.3	183.1	#
Growth rate (%) ³																															Growth rate (%) ³
Real GDP	5.1	6.0	8.6	8.1	8.8	9.5	6.8	6.2	6.3	6.9	7.5	7.5	7.0	7.1	5.7	5.4	6.4	6.4	5.5	5.6	6.4	7.0	6.7	6.9	7.5	7.4	2.9	2.6	8.1	5.1	Real GDP
Population	2.2	2.1	2.1	2.0	1.9	1.7	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.2	0.8	1.0</		

Total APEC

Primary energy supply table in 2023

	Petajoules																					Total	
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam		
Primary energy																							Primary energy
Production	17 676	521	23 793	658	127 030	6.9	21 422	2 405	2 478	4 148	6 753	592	585	1 081	1 322	58 791	30	350	2 493	101 586	2 446	376 168	Production
Import	2 139	335	3 044	1 102	38 906	981	2 323	14 381	12 520	2 977	4 110	323	102	528	1 760	698	6 071	4 599	3 554	21 472	2 239	124 163	Import
Export	- 13 936	- 686	- 14 078	- 57	- 3 541	-1.9	- 11 416	- 552	- 2 745	- 2 302	- 2 784	- 71	- 477	- 399	- 207	- 25 246	- 3 188	- 618	- 423	- 29 549	- 260	- 112 535	Export
International marine bunkers	- 30		-8.2	-1.4	- 204	- 255	- 14	- 180	- 452	- 28	- 22	-7.8		-5.3	-2.2	- 291	- 1 530	- 52	- 56	- 682		- 3 819	International marine bunkers
International aviation bunkers	- 133	-2.7	- 188	- 29	122	- 194	- 65	- 307	- 226		- 103	- 40		- 24	- 68	- 78	- 298	- 108	- 143	- 1 024		- 2 911	International aviation bunkers
Stock change	- 216	-2.1	- 250	22	- 2 126	- 24	- 1 155	97	- 21	17	16	1.0	2.4	52	- 16	116	37	16	- 26	- 2 070	- 163	- 5 692	Stock change
Total	5 500	165	12 312	1 695	160 186	513	11 095	15 844	11 555	4 813	7 969	797	212	1 234	2 788	33 991	1 121	4 187	5 400	89 734	4 262	375 373	Total
Coal, peat, and coal & peat products																							Coal, peat, and coal & peat products
Production	10 815		1 131	0.7	92 192		15 578	15	11	107	121	62		6.1	337	10 043			134	11 847	970	143 371	Production
Import	15	28	195	121	5 193	155	291	4 158	2 729	963	286	5.1		10	785	548	14	1 429	479	92	1 181	18 677	Import
Export	- 9 147		- 980	-1.1	- 352		- 10 411	- 15			-0.1	- 35		- 40	- 166	- 4 669		-1.4	-2.5	- 2 531	- 19	- 28 369	Export
Stock change	- 217		8.4	9.2	- 1 993	-8.3	- 1 180	0.4	37	-5.9	17	3.9		51	0.4	116		31		- 961	- 59	- 4 150	Stock change
Total	1 466	28	355	130	95 040	147	4 278	4 159	2 778	1 065	424	36		27	957	6 038	14	1 459	610	8 448	2 072	129 528	Total
Crude oil, NGL & petroleum products																							Crude oil, NGL & petroleum products
Production	747	183	12 326	20	8 752		1 296	13	49	1 036	4 280	42	22	215	11	23 052		0.1	276	35 132	378	87 831	Production
Import	2 081	307	1 847	794	27 641	583	2 029	6 905	7 617	1 650	2 055	318	102	500	939		5 610	2 167	2 207	18 178	1 043	84 574	Import
Export	- 702	- 460	- 9 925	- 54	- 2 874	-1.9	- 330	- 537	- 2 745	- 1 002	- 2 773	- 36	- 34	- 155	- 41	- 15 724	- 3 188	- 616	- 412	- 19 150	- 231	- 60 992	Export
International marine bunkers	- 30		-8.2	-1.4	- 204	- 255	- 14	- 180	- 451	- 28	- 22	-7.8		-5.3	-2.2	- 291	- 1 530	- 52	- 56	- 676		- 3 814	International marine bunkers
International aviation bunkers	- 133	-2.7	- 188	- 29	122	- 194	- 65	- 307	- 226		- 103	- 40		- 24	- 68	- 78	- 298	- 108	- 143	- 1 024		- 2 911	International aviation bunkers
Stock change	-0.3	-2.7	- 12	10	- 54	- 15	26	22	- 22	10	-1.1	-3.8	2.4	1.2	- 18		39	-2.6		- 571	- 104	- 695	Stock change
Total	1 964	24	4 039	740	33 382	117	2 941	5 916	4 223	1 667	3 436	272	91	532	821	6 959	632	1 388	1 873	31 889	1 087	103 993	Total
Gas																							Gas
Production	5 562	338	7 361	58	8 507		2 469	70		2 808	1 491	133	479	592	79	22 119		3.0	990	37 267	271	90 596	Production
Import	43		805	187	6 054	201		3 196	2 174	363	1 761				27	144	443	1 003	750	2 938		20 088	Import
Export	- 4 087	- 226	- 2 916	-1.4	- 236		- 668			- 1 290	-0.3		- 442	- 203		- 4 786				- 7 638		- 22 493	Export
Stock change	0.8	0.6	- 246	3.1	- 79			75	- 37			0.8					-2.2	- 13	- 26	- 523		- 845	Stock change
Total	1 519	113	5 004	246	14 246	201	1 801	3 341	2 137	1 881	3 252	134	37	389	106	17 477	440	993	1 714	32 043	271	87 346	Total
Nuclear power																							Nuclear power
Production			971		4 742			917	1 969		135					2 381		194		8 815		20 126	Production
Hydro power																							Hydro power
Production	57		1 299	85	4 436		89	271	13	115	75	96	3.8	105	37	719		14	24	888	290	8 615	Production
Geothermal, solar, etc																							Geothermal, solar, etc
Production	495		705	495	8 401	6.9	1 990	1 119	435	82	651	260	81	164	858	477	30	138	1 068	7 636	536	25 629	Production

Primary energy supply table in 2022

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Primary energy																							Primary energy
Production	18 248	563	23 516	582	123 176	6.3	19 587	2 068	2 420	4 111	6 602	587	588	1 061	1 315	60 605	29	400	2 442	97 156	2 589	367 652	Production
Import	2 000	361	2 932	1 202	35 332	862	2 197	15 487	12 776	2 499	3 918	308	108	473	1 619	847	6 082	4 881	3 431	21 116	1 708	120 139	Import
Export	- 14 613	- 721	- 13 987	- 43	- 3 118	-3.3	- 10 297	- 736	- 2 765	- 2 226	- 2 635	- 78	- 493	- 326	- 188	- 26 234	- 3 042	- 700	- 380	- 27 031	- 241	- 109 857	Export
International marine bunkers	- 25		-8.2	-1.9	- 218	- 242	- 13	- 200	- 485	- 35	- 24	-5.9		- 11	-4.5	- 277	- 1 501	- 59	- 66	- 682		- 3 859	International marine bunkers
International aviation bunkers	- 74	-1.6	- 158	- 26	74	- 112	- 36	- 205	- 139		- 98	- 23		- 20	- 51	- 65	- 218	- 76	- 92	- 960		- 2 280	International aviation bunkers
Stock change	- 152	-1.3	58	-8.4	301	- 19	- 313	- 20	- 98	33	1.3	13		18	- 72	- 172	- 37	- 12	-4.4	1 463	84	1 062	Stock change
Total	5 384	201	12 353	1 704	155 546	491	11 124	16 395	11 708	4 382	7 765	801	203	1 195	2 618	34 704	1 313	4 435	5 330	91 064	4 139	372 856	Total
Coal & coal products																							Coal & coal products
Production	11 416		1 097	0.4	90 056		13 815	16	15	90	129	62		5.2	319	10 212			143	12 072	1 023	140 471	Production
Import	15	28	172	216	5 519	164	249	4 548	2 855	894	254	15		15	723	544	17	1 568	567	139	743	19 246	Import
Export	- 9 688		- 926	-0.8	- 320		- 9 351	- 23			-0.1	- 36		-2.3	- 157	- 4 953		-1.5	-5.0	- 2 188	- 28	- 27 679	Export
Stock change	- 176		-7.7	4.6	163	- 14	- 377	-3.9	- 13	6.2	0.4	0.1		12	- 87	340		- 19		-7.6	70	- 109	Stock change
Total	1 567	28	335	221	95 417	150	4 335	4 537	2 856	990	384	41		30	799	6 143	17	1 548	704	10 016	1 808	131 928	Total
Crude oil, NGL & petroleum products																							Crude oil, NGL & petroleum products
Production	807	203	12 115	18	8 571		1 310	14	52	1 044	4 157	39	23	219	15	22 884		0.1	290	32 330	400	84 492	Production
Import	1 848	333	1 885	792	24 269	466	1 945	7 349	7 634	1 169	2 079	293	108	440	890	29	5 620	2 305	2 130	17 749	952	80 286	Import
Export	- 752	- 490	- 9 728	- 43	- 2 512	-3.3	- 265	- 713	- 2 765	- 913	- 2 626	- 41	- 46	- 131	- 31	- 15 435	- 3 042	- 698	- 368	- 17 920	- 204	- 58 727	Export
International marine bunkers	- 25		-8.2	-1.9	- 218	- 242	- 13	- 200	- 485	- 35	- 24	-5.9		- 11	-4.5	- 277	- 1 501	- 59	- 66	- 676		- 3 853	International marine bunkers
International aviation bunkers	- 74	-1.6	- 158	- 26	74	- 112	- 36	- 205	- 139		- 98	- 23		- 20	- 51	- 65	- 218	- 76	- 92	- 960		- 2 280	International aviation bunkers
Stock change	-1.1	-1.2	8.3	-8.9	173	-5.4	64	65	- 27	18	0.9	9.2		5.6	12	- 40	- 37	9.3		1 198	14	1 459	Stock change
Total	1 802	43	4 114	731	30 358	103	3 005	6 312	4 270	1 283	3 488	271	84	503	830	7 097	822	1 482	1 894	31 722	1 162	101 377	Total
Gas																							Gas
Production	5 515	360	7 201	46	8 062		2 418	75		2 785	1 391	129	483	555	109	23 877		3.2	989	35 785	287	90 071	Production
Import	137		737	194	5 518	187		3 474	2 287	437	1 577					268	441	1 007	606	2 944		19 814	Import
Export	- 4 173	- 231	- 3 020		- 214		- 667			- 1 303	-0.3		- 446	- 192		- 5 781		-2.3	-4.4	- 6 720		- 22 747	Export
Stock change	25	-0.1	59	-4.9	- 35			- 82	- 60			3.4		-0.7		- 472	-0.8	-2.3		283		- 291	Stock change
Total	1 504	130	4 978	234	13 331	187	1 751	3 467	2 227	1 919	2 968	132	36	362	109	17 892	441	1 008	1 591	32 292	287	86 847	Total
Nuclear power																							Nuclear power
Production			952		4 558			612	1 921		118					2 451		259		8 767		19 638	Production
Hydro power																							Hydro power
Production	59		1 432	74	4 694		98	277	13	115	129	95	3.4	107	36	710		21	24	924	345	9 158	Production
Geothermal, solar, etc																							Geothermal, solar, etc
Production	452		719	443	7 235	6.3	1 946	1 074	420	76	678	262	79	175	835	470	29	116	997	7 278	533	23 823	Production

Final energy consumption table in 2023

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Total	3 227	38	7 150	1 217	86 794	269	7 034	9 387	5 283	2 459	4 665	511	149	922	1 491	18 670	472	1 988	3 314	58 822	2 994	216 853	Total
Coal, peat, and coal & peat products	106		78	3.2	19 173		1 842	676	317	79	61	19		23	83	1 339	4.8	169	296	513	791	25 573	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 664	25	2 710	652	19 100	78	2 734	4 159	1 759	1 320	2 809	258	58	480	733	4 266	206	616	1 424	24 990	980	71 018	Crude oil, NGL & petroleum products
Gas	454	0.7	2 002	71	10 306	24	434	1 082	863	349	384	62		112		5 256	62	200	324	14 905	38	36 928	Gas
Electricity	808	12	1 908	304	29 192	163	1 153	3 165	1 926	656	1 099	139	15	196	345	3 014	200	926	787	14 019	898	60 926	Electricity
Others	195		452	186	9 024	3.4	871	306	417	56	312	33	76	111	330	4 795		77	483	4 394	287	22 409	Others
Industry	968	6.4	1 908	466	49 473	12	3 165	3 037	1 925	811	1 311	152	40	270	296	6 308	248	954	1 303	11 665	1 625	85 943	Industry
Coal, peat, and coal & peat products	106		77	3.1	17 180		1 842	670	311	79	61	17		23	83	1 235	4.8	169	296	502	791	23 449	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	200	5.8	198	168	2 992	3.4	139	671	91	80	221	19	25	65	67	445	113	28	162	750	139	6 580	Crude oil, NGL & petroleum products
Gas	257		713	40	6 103	1.3	423	432	302	346	348	47		55		1 424	56	151	279	5 821	38	16 836	Gas
Electricity	287	0.7	666	178	17 086	7.2	415	1 108	980	304	635	45	11	114	106	1 351	74	539	298	3 045	442	27 693	Electricity
Others	118		255	77	6 113		345	157	242	1.9	47	23	3.9	13	40	1 854		67	267	1 548	215	11 386	Others
Transport	1 377	18	2 501	400	14 496	76	2 480	2 688	1 524	1 180	2 153	207	26	413	538	4 459	99	494	1 197	25 926	647	62 901	Transport
Coal, peat, and coal & peat products					17																	17	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 330	18	2 180	394	12 160	72	2 121	2 611	1 444	1 122	2 146	206	26	361	515	2 940	88	488	1 065	22 688	646	54 622	Crude oil, NGL & petroleum products
Gas	17		173	0.6	1 284		2.2	0.6	37	1.3	0.7			36		1 205	0.1		44	1 285	0.2	4 087	Gas
Electricity	25		31	4.7	839	3.8	1.4	58	14	2.1	6.0	1.0		0.3	0.6	314	11	6.7	1.7	73		1 393	Electricity
Others	4.6		117		196	0.2	356	19	29	54		0.2		16	23				86	1 880	0.9	2 781	Others
Agriculture	100		313	18	2 074	0.1	10	104	78	16	177	28	4.6	7.5	10	411		11	96	885	148	4 490	Agriculture
Coal, peat, and coal & peat products			0.6		257							1.5				0.9						260	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	90		229	7.2	900		10	94	21	13	128	16	4.3	2.2	1.8	127		2.7	94	447	106	2 291	Crude oil, NGL & petroleum products
Gas	1.9		45	0.9	8.1				0.1			0.9				73		0.2		62		192	Gas
Electricity	7.3		39	10	700	0.1		10	54	3.2	49	8.8	0.3	5.1	7.9	86		8.2	1.7	269	22	1 281	Electricity
Others				0.2	209			0.4	2.6			0.4			0.2	125			107	107	20	466	Others
Residential & commercial	781	13	2 426	319	14 666	181	1 329	3 434	1 691	421	956	120	79	228	639	7 464	125	507	718	19 805	563	56 462	Residential & commercial
Coal, peat, and coal & peat products	0.1				1 285			5.9	6.7			0.6				104				11		1 414	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	42	0.8	103	74	1 399	2.9	428	717	149	73	314	15	2.6	49	145	729	4.5	79	103	1 105	89	5 626	Crude oil, NGL & petroleum products
Gas	178	0.7	1 071	29	2 672	23	8.1	649	524	1.1	35	13		21		2 554	6.5	49		7 737		15 572	Gas
Electricity	488	11	1 173	110	7 103	152	736	1 985	868	346	342	82	4.1	76	228	1 262	114	369	485	10 092	422	26 449	Electricity
Others	73		78	106	2 206	3.1	157	76	143		265	9.3	72	82	267	2 815		10	129	859	51	7 401	Others

Final energy consumption table in 2022

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Total	3 119	36	7 260	1 203	83 078	265	6 956	9 660	5 414	2 212	4 717	514	145	923	1 448	18 685	486	2 030	3 304	59 963	2 864	214 282	Total
Coal, peat, and coal & peat products	113		80	10	20 393		1 740	719	347	65	67	21		26	78	1 286	6.7	188	356	553	693	26 741	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 552	23	2 716	663	17 757	76	2 758	4 261	1 777	1 142	2 878	258	56	467	715	4 267	216	620	1 379	25 567	977	70 125	Crude oil, NGL & petroleum products
Gas	474	0.7	2 079	75	9 451	24	472	1 124	929	350	381	58		109		5 475	66	199	336	15 469	41	37 111	Gas
Electricity	795	12	1 919	286	27 186	161	1 094	3 247	1 950	606	1 080	139	15	188	329	2 962	198	936	749	14 422	857	59 130	Electricity
Others	185		466	170	8 292	3.0	892	309	411	50	311	38	74	134	326	4 694		86	485	3 951	296	21 175	Others
Industry	962	6.1	1 942	443	47 999	12	3 161	3 157	1 992	797	1 326	159	38	271	298	6 321	258	1 004	1 370	11 762	1 545	84 823	Industry
Coal, peat, and coal & peat products	113		80	9.0	17 950		1 740	713	340	65	67	19		26	78	1 181	6.7	188	356	539	687	24 157	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	190	5.5	211	162	3 030	3.2	163	698	86	81	224	20	24	61	76	464	116	34	164	905	152	6 872	Crude oil, NGL & petroleum products
Gas	264		699	44	5 412	1.3	461	443	324	347	347	45		58		1 550	59	149	290	5 815	41	16 350	Gas
Electricity	283	0.6	672	169	16 126	7.0	409	1 140	1 003	304	637	47	10	110	104	1 319	76	556	295	3 041	451	26 761	Electricity
Others	112		280	60	5 481	0.1	388	161	239		50	28	3.9	15	40	1 808		76	265	1 462	214	10 683	Others
Transport	1 271	17	2 478	417	13 048	73	2 462	2 689	1 531	1 009	2 191	205	25	399	516	4 357	106	495	1 149	25 958	625	61 020	Transport
Coal, peat, and coal & peat products					21																	21	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 225	17	2 162	411	10 868	70	2 121	2 612	1 450	956	2 185	204	25	352	494	2 911	96	489	1 022	23 029	624	53 320	Crude oil, NGL & petroleum products
Gas	18		181	0.3	1 227		1.8	0.7	39	1.5	0.6			31		1 140			46	1 257	0.5	3 943	Gas
Electricity	24		30	5.4	735	3.1	1.2	58	13	1.6	5.9	0.7		0.3	0.4	307	10	6.0	1.0	60		1 264	Electricity
Others	4.0		103		198	0.2	338	18	29	50		0.1		15	22				81	1 612	0.8	2 472	Others
Agriculture	104		312	18	2 041	0.1	14	104	74	17	177	27	4.6	7.7	7.2	416		11	91	887	140	4 452	Agriculture
Coal, peat, and coal & peat products			0.5		339							1.4				0.9						342	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	97		228	6.1	866		14	94	17	15	128	15	4.3	2.3	2.5	131		2.8	90	483	101	2 297	Crude oil, NGL & petroleum products
Gas	1.1		45	0.8	8.2				0.1			0.9				79		0.2		62		197	Gas
Electricity	6.4		38	11	632	0.1		10	55	2.4	49	8.6	0.3	5.1	4.7	83		8.1	1.2	263	19	1 197	Electricity
Others				0.3	195			0.4	1.9			0.4		0.2		123			79	79	19	419	Others
Residential & commercial	781	13	2 527	312	14 613	179	1 266	3 589	1 741	356	959	120	77	242	618	7 563	121	502	694	20 577	543	57 394	Residential & commercial
Coal, peat, and coal & peat products	0.1				1 603			5.9	7.3			0.6				105				14	5.7	1 741	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	39	0.7	114	77	1 513	3.2	421	790	159	56	340	17	2.6	49	139	736	4.3	79	103	1 150	101	5 895	Crude oil, NGL & petroleum products
Gas	191	0.7	1 154	29	2 576	23	8.5	680	566	1.7	33	13		19		2 707	6.5	49		8 336		16 393	Gas
Electricity	481	11	1 178	99	6 785	151	683	2 035	868	298	324	80	4.0	71	215	1 253	110	363	452	10 278	375	26 116	Electricity
Others	70		81	107	2 137	2.7	153	77	141		261	9.3	71	103	265	2 763		10	139	798	61	7 248	Others

Demand & supply table of coal, peat, and coal & peat products in 2023

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	10 815		1 131	0.7	92 192		15 578	15	11	107	121	62		6.1	337	10 043			134	11 847	970	143 371	Production
Import	15	28	195	121	5 193	155	291	4 158	2 729	963	286	5.1		10	785	548	14	1 429	479	92	1 181	18 677	Import
Export	- 9 147		- 980	-1.1	- 352		- 10 411	- 15			-0.1	- 35		- 40	- 166	- 4 669		-1.4	-2.5	- 2 531	- 19	- 28 369	Export
Stock change	- 217		8.4	9.2	- 1 993	-8.3	- 1 180	0.4	37	-5.9	17	3.9		51	0.4	116		31		- 961	- 59	- 4 150	Stock change
Primary energy supply	1 466	28	355	130	95 040	147	4 278	4 159	2 778	1 065	424	36		27	957	6 038	14	1 459	610	8 448	2 072	129 528	Primary energy supply
Main activity producers	- 1 384		- 246	- 210	-55 543	- 150	- 2 597	- 2 562	- 1 902	- 925	- 273	-7.3		-1.5	- 717	- 2 258	- 11	- 833	- 298	- 8 902	- 1 101	- 79 921	Main activity producers
Autoproducers	- 12	-6.5	-1.2					- 218	- 247			-1.6	-7.2		-2.8	- 892		- 299		- 48		- 1 736	Autoproducers
Coal transformation	- 57		- 40	-5.1	- 6 073			- 684	- 371		- 24	-4.8				- 875		- 124		- 240		- 8 499	Coal transformation
Refining																							Refining
Gas processing					- 1 259															- 72		- 1 331	Gas processing
Other transformation									- 19													- 19	Other transformation
Energy sector own use	- 34	- 22		-5.0	- 769			- 128	- 123		- 12	-2.6				- 81		- 44		- 39		- 1 261	Energy sector own use
Final energy consumption	106		78	3.2	19 173		1 842	676	317	79	61	19		23	83	1 339	4.8	169	296	513	791	25 573	Final energy consumption

Demand & supply table of crude oil, NGL and petroleum products in 2023

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	747	183	12 326	20	8 752		1 296	13	49	1 036	4 280	42	22	215	11	23 052		0.1	276	35 132	378	87 831	Production
Import	2 081	307	1 847	794	27 641	583	2 029	6 905	7 617	1 650	2 055	318	102	500	939		5 610	2 167	2 207	18 178	1 043	84 574	Import
Export	- 702	- 460	- 9 925	- 54	- 2 874	-1.9	- 330	- 537	- 2 745	- 1 002	- 2 773	- 36	- 34	- 155	- 41	- 15 724	- 3 188	- 616	- 412	- 19 150	- 231	- 60 992	Export
Stock change	-0.3	-2.7	- 12	10	- 54	- 15	26	22	- 22	10	-1.1	-3.8	2.4	1.2	- 18		39	-2.6		- 571	- 104	- 695	Stock change
Primary energy supply	1 964	24	4 039	740	33 382	117	2 941	5 916	4 223	1 667	3 436	272	91	532	821	6 959	632	1 388	1 873	31 889	1 087	103 993	Primary energy supply
Main activity producers	- 11	-0.5	- 54	- 18	- 367	-4.5	- 86	- 271	- 58	- 17	- 198	-0.1	-1.9	-6.9	- 34	- 26	- 10	- 37	- 13	- 344	-1.4	- 1 560	Main activity producers
Autoproducers	- 32		- 18	-4.8			- 51	- 152	- 55	- 23	- 50		- 26	-0.5		- 233	-3.2	- 11		- 62		- 721	Autoproducers
Coal transformation								- 16														- 16	Coal transformation
Refining	-1.5	- 34	- 235	- 18	- 780		- 61	132	- 211	- 97	- 82	-1.2	-5.9	- 27	- 14	- 711	- 53	78	- 473	- 1 352	- 94	- 4 039	Refining
Gas processing		0.8			- 26	- 12	51	- 97	- 18	72			6.6									- 22	Gas processing
Other transformation		11	139	1.6				-8.2	55		0.5								229	211		640	Other transformation
Energy sector own use	- 181		- 583	- 11	- 2 293		- 38	- 256	- 226	- 20	- 176	-2.2		-4.8	- 13	- 194	- 67	- 101	-3.3	- 1 179		- 5 349	Energy sector own use
Final energy consumption	1 664	25	2 710	652	19 100	78	2 734	4 159	1 759	1 320	2 809	258	58	480	733	4 266	206	616	1 424	24 990	980	71 018	Final energy consumption

Demand & supply table of gas in 2023

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	5 562	338	7 361	58	8 507		2 469	70		2 808	1 491	133	479	592	79	22 119		3.0	990	37 267	271	90 596	Production
Import	43		805	187	6 054	201		3 196	2 174	363	1 761				27	144	443	1 003	750	2 938		20 088	Import
Export	- 4 087	- 226	- 2 916	-1.4	- 236		- 668			- 1 290	-0.3		- 442	- 203		- 4 786				- 7 638		- 22 493	Export
Stock change	0.8	0.6	- 246	3.1	- 79			75	- 37			0.8					-2.2	- 13	- 26	- 523		- 845	Stock change
Primary energy supply	1 519	113	5 004	246	14 246	201	1 801	3 341	2 137	1 881	3 252	134	37	389	106	17 477	440	993	1 714	32 043	271	87 346	Primary energy supply
Main activity producers	- 270	- 47	- 536	- 126	- 2 698	- 174	- 231	- 2 220	- 1 144	- 511	- 1 226	- 36	-5.2	- 198	- 106	- 5 811	- 321	- 787	- 922	- 11 886	- 209	- 29 463	Main activity producers
Autoproducers	- 193	-5.5	- 252	-4.9				- 149	- 54	- 50	- 434	-1.8	-5.5	- 11		- 2 814	- 45	-6.8		- 655		- 4 682	Autoproducers
Coal transformation																							Coal transformation
Refining																							Refining
Gas processing		6.2			842	12	- 59	92	15	- 717			- 13					11		77		266	Gas processing
Other transformation	- 270	- 47	- 536	- 126	- 2 698	- 174	- 231	- 2 220	- 1 144	- 511	- 1 226	- 36	-5.2	- 198	- 106	- 5 811	- 321	- 787	- 922	- 11 886	- 209	- 29 463	Other transformation
Energy sector own use	- 395	- 33	- 1 529	- 11	- 1 082		- 205	- 30	- 73	- 44	- 627	-3.5	- 13	- 43	-3.5	- 565	-0.5	- 22	- 138	- 2 891		- 7 709	Energy sector own use
Final energy consumption	454	0.7	2 002	71	10 306	24	434	1 082	863	349	384	62		112		5 256	62	200	324	14 905	38	36 928	Final energy consumption

Note: Gas = Natural gas/ LNG

Demand & supply table of coal, peat, and coal & peat products in 2022

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	11 416		1 097	0.4	90 056		13 815	16	15	90	129	62		5.2	319	10 212			143	12 072	1 023	140 471	Production
Import	15	28	172	216	5 519	164	249	4 548	2 855	894	254	15		15	723	544	17	1 568	567	139	743	19 246	Import
Export	- 9 688		- 926	-0.8	- 320		- 9 351	- 23			-0.1	- 36		-2.3	- 157	- 4 953		-1.5	-5.0	- 2 188	- 28	- 27 679	Export
Stock change	- 176		-7.7	4.6	163	- 14	- 377	-3.9	- 13	6.2	0.4	0.1		12	- 87	340		- 19		-7.6	70	- 109	Stock change
Primary energy supply	1 567	28	335	221	95 417	150	4 335	4 537	2 856	990	384	41		30	799	6 143	17	1 548	704	10 016	1 808	131 928	Primary energy supply
Main activity producers	- 1 455		- 315	- 253	- 54 315	- 153	- 2 837	- 2 583	- 1 911	- 901	- 194	- 24		-0.3	- 701	- 1 939	- 12	- 833	- 302	- 9 592	- 1 188	- 79 508	Main activity producers
Autoproducers	- 13	-6.7	-1.4					- 268	- 304		-1.5	-8.0		-4.5		- 783		- 364		- 51		- 1 803	Autoproducers
Coal transformation	- 52		- 37	-6.5	- 5 922			- 761	- 395		- 25	-5.6				- 881		- 136		- 272		- 8 494	Coal transformation
Refining																							Refining
Gas processing					- 971															- 74		- 1 045	Gas processing
Other transformation									- 16													- 16	Other transformation
Energy sector own use	- 35	- 22		-6.0	- 867			- 122	- 133		- 13	-2.7				- 77		- 49		- 44		- 1 371	Energy sector own use
Final energy consumption	113		80	10	20 393		1 740	719	347	65	67	21		26	78	1 286	6.7	188	356	553	693	26 741	Final energy consumption

Demand & supply table of crude oil, NGL and petroleum products in 2022

	Petajoules																							
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total		
Production	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	Production
Import	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	Import
Export	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	Export
Stock change	-1.1	-1.2	8.3	-8.9	173	-5.4	64	65	- 27	18	0.9	9.2		5.6	12	- 40	- 37	9.3		1 198	14	1 459	Stock change	
Primary energy supply	1 802	43	4 114	731	30 358	103	3 005	6 312	4 270	1 283	3 488	271	84	503	830	7 097	822	1 482	1 894	31 722	1 162	101 377	Primary energy supply	
Main activity producers	-8.4	-0.4	- 41	- 21	- 383	-3.7	- 85	- 266	- 25	- 10	- 388	-0.3	-2.2	-4.2	- 17	- 27	-2.7	- 42	-6.3	- 288	-2.2	- 1 624	Main activity producers	
Autoproducers	- 36		- 13	-6.0			- 56	- 141	- 65	-1.5	- 60		- 25	-0.5		- 229	-5.4	- 16		- 75		- 730	Autoproducers	
Coal transformation								- 15														- 15	Coal transformation	
Refining	- 18	- 30	- 215	- 10	- 1 133		- 241	129	- 213	- 103	- 80	-4.1	3.0	- 14	-8.8	- 672	- 34	131	- 291	- 1 608	- 91	- 4 503	Refining	
Gas processing		0.8			- 24	- 12	49	- 83	- 11	75	- 25		1.9									- 30	Gas processing	
Other transformation		11	145					-7.5	47		0.5								300	201		697	Other transformation	
Energy sector own use	- 182		- 551	- 14	- 1 929		- 35	- 243	- 230	- 21	- 160	-5.9		-2.5	-1.6	- 174	- 68	- 96	-5.0	- 1 133		- 4 851	Energy sector own use	
Final energy consumption	1 552	23	2 716	663	17 757	76	2 758	4 261	1 777	1 142	2 878	258	56	467	715	4 267	216	620	1 379	25 567	977	70 125	Final energy consumption	

Demand & supply table of gas in 2022

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	5 515	360	7 201	46	8 062		2 418	75		2 785	1 391	129	483	555	109	23 877		3.2	989	35 785	287	90 071	Production
Import	137		737	194	5 518	187		3 474	2 287	437	1 577					268	441	1 007	606	2 944		19 814	Import
Export	- 4 173	- 231	- 3 020		- 214		- 667			- 1 303	-0.3		- 446	- 192		- 5 781				- 6 720		- 22 747	Export
Stock change	25	-0.1	59	-4.9	- 35			- 82	- 60			3.4		-0.7		- 472	-0.8	-2.3	-4.4	283		- 291	Stock change
Primary energy supply	1 504	130	4 978	234	13 331	187	1 751	3 467	2 227	1 919	2 968	132	36	362	109	17 892	441	1 008	1 591	32 292	287	86 847	Primary energy supply
Main activity producers	- 279	- 51	- 492	- 116	- 2 678	- 179	- 253	- 2 343	- 1 168	- 416	- 1 135	- 37	-4.7	- 169	- 113	- 6 067	- 327	- 761	- 1 045	- 11 073	- 188	- 28 896	Main activity producers
Autoproducers	- 187	-5.5	- 248	-3.9				- 145	- 61	- 50	- 470	-1.5	-5.5	-8.8		- 2 982	- 46	-4.2		- 641		- 4 859	Autoproducers
Coal transformation																							Coal transformation
Refining																							Refining
Gas processing		12			500	12	- 30	79	9.2	- 511	8.6		- 13					10		73		151	Gas processing
Other transformation		- 20	- 142		- 157		- 189		- 19							- 504		-2.7	- 234	- 161		- 1 428	Other transformation
Energy sector own use	- 386	- 34	- 1 511	- 13	- 932		- 207	- 34	- 75	- 49	- 626	-5.8	- 12	- 41	-5.1	- 591	-0.4	- 22	- 291	- 2 859		- 7 695	Energy sector own use
Final energy consumption	474	0.7	2 079	75	9 451	24	472	1 124	929	350	381	58		109		5 475	66	199	336	15 469	41	37 111	Final energy consumption

Note: Gas = Natural gas/ LNG

Power generation table in 2023

	Gigawatt-hours																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Total	273 579	5 611	632 891	90 324	9 456 442	37 595	350 608	992 805	606 901	187 262	380 359	44 662	4 769	62 209	118 004	1 180 999	57 384	282 428	202 147	4 430 407	278 107	19 675 494	Total
Thermal	181 363	5 606	124 531	32 896	6 259 007	37 158	285 383	644 532	373 540	149 427	292 303	5 492	3 590	28 401	91 726	748 622	54 383	234 579	157 742	2 640 373	157 840	12 508 493	Thermal
Coal	127 633	1 144	23 548	14 502	5 928 372	12 561	217 819	283 838	205 380	81 210	32 972	1 103		233	73 754	215 515	540	119 173	28 665	741 966	130 191	8 240 120	Coal
Oil	4 864	42	4 684	1 631	8 807	208	6 558	30 155	7 345	1 231	27 818	4.8	2 712	1 580	1 304	9 486	156	3 776	3 244	33 107	1 277	149 990	Oil
Gas	48 865	4 420	96 299	16 763	321 828	24 388	61 006	330 539	160 815	66 986	231 513	4 384	878	26 588	16 668	523 621	53 687	111 630	125 833	1 865 300	26 372	4 118 382	Gas
Hydro	15 770		360 699	23 524	1 285 848	0.9	24 590	75 154	3 716	31 896	20 796	26 572	1 044	29 088	10 287	202 466		7 014	6 592	246 757	80 595	2 452 409	Hydro
Nuclear			89 047		434 725			84 055	180 494		12 386					217 697		17 802		808 076		1 844 282	Nuclear
Geothermal				368			16 936	3 400			4 321	8 224	96		10 730	456		23	1.3	19 500		64 055	Geothermal
Others	76 446	5.6	58 614	33 536	1 476 862	437	23 699	185 664	49 151	5 939	50 553	4 374	40	4 720	5 261	11 758	3 001	23 009	37 812	715 701	39 672	2 806 255	Others
Main activity producers	219 537	4 082	569 321	83 012	9 456 442	37 208	323 320	825 238	572 025	179 218	324 326	43 032	1 438	60 194	118 004	1 096 122	52 887	239 443	202 147	4 212 580	278 107	18 897 684	Main activity producers
Thermal	156 499	4 082	97 346	31 497	6 259 007	37 158	285 383	589 513	342 685	142 190	251 341	4 866	694	27 509	91 726	668 924	49 886	204 007	157 742	2 510 986	157 840	12 070 881	Thermal
Coal	126 465		23 333	14 502	5 928 372	12 561	217 819	262 040	185 514	81 210	32 884	540			73 754	195 338	540	90 281	28 665	733 545	130 191	8 137 556	Coal
Oil	969	42	3 163	1 071	8 807	208	6 558	17 334	2 653	919	23 717	4.8	216	1 548	1 304	1 587	38	3 150	3 244	26 228	1 277	104 037	Oil
Gas	29 065	4 040	70 850	15 924	321 828	24 388	61 006	310 139	154 518	60 061	194 740	4 321	478	25 961	16 668	471 999	49 308	110 575	125 833	1 751 213	26 372	3 829 288	Gas
Hydro	15 669		333 996	23 389	1 285 848		19 932	72 562	3 716	31 888	20 252	26 568	744	28 510	10 287	201 237		7 009	6 592	245 602	80 595	2 414 396	Hydro
Nuclear			89 047		434 725			84 055	180 494		12 386					217 697		17 802		808 076		1 844 282	Nuclear
Geothermal				368			16 936	2 332			4 222	8 172			10 730	456		18	1.3	19 500		62 735	Geothermal
Others	47 369	0.7	48 932	27 758	1 476 862	50	1 069	76 775	45 129	5 140	36 125	3 427	0.6	4 175	5 261	7 486	3 001	10 607	37 812	628 416	39 672	2 505 068	Others
Autoproducers	54 042	1 529	63 570	7 312		387	27 288	167 567	34 877	8 044	56 033	1 630	3 331	2 014		84 878	4 497	42 985		217 827		777 811	Autoproducers
Thermal	24 863	1 524	27 185	1 399				55 019	30 855	7 237	40 962	626	2 896	892		79 698	4 497	30 572		129 387		437 612	Thermal
Coal	1 168	1 144	215					21 797	19 866		88	563		233		20 177		28 892		8 421		102 565	Coal
Oil	3 895		1 521	560				12 821	4 692	312	4 101		2 496	32		7 899	118	626		6 879		45 953	Oil
Gas	19 801	380	25 449	839				20 400	6 296	6 925	36 773	63	400	627		51 622	4 379	1 054		114 087		289 094	Gas
Hydro	101		26 703	135		0.9	4 658	2 592		8.0	544	3.8	300	578		1 229		5.1		1 155		38 013	Hydro
Nuclear																							Nuclear
Geothermal								1 067			99	52	96					5.3				1 320	Geothermal
Others	29 078	4.8	9 682	5 778		386	22 630	108 889	4 022	799	14 428	948	39	544		3 950		12 402		87 285		300 866	Others

Power generation table in 2022

	Gigawatt-hours																							
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total		
Total	265 115	5 700	647 180	88 019	8 534 248	37 061	309 078	1 039 685	622 802	178 578	350 364	44 613	4 365	57 517	106 115	1 159 416	55 788	291 033	188 943	4 354 059	255 328	18 595 006	Total	
Thermal	194 756	5 695	118 008	45 029	5 801 816	36 798	252 871	720 586	421 432	144 124	249 605	8 234	3 223	22 394	82 728	710 427	53 517	242 530	155 650	2 661 776	145 319	12 076 519	Thermal	
Coal	140 311	1 242	34 448	26 065	5 491 619	13 497	189 958	321 314	221 820	84 730	18 098	3 232		130	62 052	187 221	694	128 840	38 938	991 561	119 000	8 074 771	Coal	
Oil	4 662	36	4 246	3 061	15 686	200	6 648	39 908	8 166	975	45 636	27	2 392	631	1 616	8 541	440	5 331	4 797	36 125	7.0	189 132	Oil	
Gas	49 783	4 417	79 314	15 902	294 510	23 100	56 265	359 364	191 446	58 419	185 871	4 975	831	21 633	19 060	514 665	52 384	108 359	111 915	1 634 090	26 312	3 812 615	Gas	
Hydro	14 761		382 391	19 348	1 338 999	1.5	24 697	78 792	3 055	31 105	35 031	24 232	1 004	31 926	9 185	216 143		6 659	4 682	253 479	78 553	2 554 042	Hydro	
Nuclear			92 629		407 523			70 805	158 015		11 923					222 530		27 788		811 551		1 802 764	Nuclear	
Geothermal				324			15 899	3 008			4 260	8 446	96		10 016	430		9.1	1.5	19 077		61 567	Geothermal	
Others	55 599	4.4	54 152	23 318	985 911	262	15 611	166 493	40 301	3 349	49 545	3 700	42	3 198	4 185	9 887	2 271	14 047	28 609	608 176	31 456	2 100 114	Others	
Main activity producers	223 428	4 074	591 344	77 369	7 779 060	35 029	274 851	849 122	551 511	167 833	262 697	42 968	1 501	50 673	101 756	1 018 583	48 410	237 676	185 602	4 038 892	243 518	16 785 895	Main activity producers	
Thermal	169 944	4 047	95 069	43 636	5 801 816	36 798	252 871	655 733	384 596	138 513	205 462	7 477	755	21 533	82 728	634 979	48 919	207 173	155 650	2 533 910	145 319	11 626 927	Thermal	
Coal	138 887		34 261	26 065	5 491 619	13 497	189 958	291 927	197 488	84 730	17 967	2 543		25	62 052	169 951	694	95 187	38 938	982 075	119 000	7 956 865	Coal	
Oil	846	36	3 057	2 404	15 686	200	6 648	25 390	2 509	807	40 463	27	324	457	1 616	1 596	196	4 102	4 797	29 393	7.0	140 562	Oil	
Gas	30 211	4 011	57 751	15 167	294 510	23 100	56 265	338 416	184 599	52 976	147 032	4 907	431	21 051	19 060	463 432	48 030	107 883	111 915	1 522 441	26 312	3 529 500	Gas	
Hydro	14 679		355 981	19 180	1 338 999		19 764	75 751	3 055	31 101	34 248	24 228	704	31 294	9 185	214 836		6 658	4 682	252 261	78 553	2 515 159	Hydro	
Nuclear			92 629		407 523			70 805	158 015		11 923					222 530		27 788		811 551		1 802 764	Nuclear	
Geothermal				324			15 899	2 216			4 157	8 393			10 016	430		9.1	1.5	18 457		59 903	Geothermal	
Others	35 186	0.9	44 683	18 250	985 911	42	938	61 930	36 782	2 726	33 790	2 824	4.5	2 997	4 185	5 536	2 271	4 428	28 609	536 714	31 456	1 839 263	Others	
Autoproducers	45 306	1 652	58 818	6 628		222	19 606	173 248	40 354	6 238	60 784	1 690	2 902	1 694		80 728	4 599	44 978		201 166		750 612	Autoproducers	
Thermal	24 812	1 648	22 939	1 392				64 853	36 835	5 611	44 143	757	2 468	861		75 448	4 599	35 358		127 867		449 591	Thermal	
Coal	1 424	1 242	187					29 388	24 332		131	689		105		17 270		33 653		9 486		117 906	Coal	
Oil	3 816		1 189	657				14 517	5 657	168	5 173	0.1	2 068	174		6 945	244	1 229		6 732		48 570	Oil	
Gas	19 572	406	21 563	735				20 948	6 846	5 443	38 839	68	400	582		51 233	4 354	475		111 649		283 115	Gas	
Hydro	81		26 410	168		1.5	4 933	3 041		4.0	783	3.8	300	632		1 307		1.2		1 218		38 883	Hydro	
Nuclear																							Nuclear	
Geothermal								792			103	54	96							620		1 664	Geothermal	
Others	20 413	3.6	9 469	5 068		221	14 673	104 563	3 518	623	15 755	875	37	201		3 973		9 619		71 461		260 474	Others	

Fuel consumption table for heat and power generation in 2023

	Petajoules																						
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Main activity producers	1 855	48	3 256	480	78 755	328	3 522	6 465	5 108	1 586	2 444	349	9.4	373	1 463	11 674	381	1 853	1 855	32 890	1 910	156 606	Main activity producers
Coal	1 332		223	119	56 605	147	2 436	2 307	1 746	980	356	5.4			870	2 292	9.3	802	253	7 230	1 214	78 926	Coal
Coke					86			0.5														87	Coke
Coke oven gas					617			32	13													663	Coke oven gas
Blast furnace gas					1 344			74	32											6.4		1 457	Blast furnace gas
Other coal products					341			4.3	24													369	Other coal products
Peat																4.9						4.9	Peat
Crude oil & NGL					0.2			1.6														1.8	Crude oil & NGL
LPG				0.1	10	2.3		1.2	1.8													15	LPG
Refinery gas					130			27														157	Refinery gas
Naphtha																							Naphtha
Diesel oil	9.4	0.5	9.3	7.1	9.1	2.6	82	16	5.3	8.3	51	0.1	0.4	8.6	16			2.2	6.8	70	21	325	Diesel oil
Fuel oil	0.9		16		47		10	104	2.2	3.8	185			3.7	13	27	0.6	31	0.1	115	5.6	564	Fuel oil
Other petroleum products	0.1		15	5.0	195			27	9.3											67		318	Other petroleum products
Natural gas	274	48	606	128	3 004	176	258	2 154	1 083	457	1 411	37	5.8	214	103	6 220	337	770	1 036	12 736	190	31 248	Natural gas
Others	238		2 387	221	16 367	0.6	737	1 716	2 190	138	441	307	3.1	147	460	3 131	34	249	558	12 667	479	42 471	Others
Autoproducers	349	12	469	186		2.5	383	864	383	76	563	27	40	25		4 189	51	369		1 103		9 090	Autoproducers
Coal	11	6.2						119	148					3.8		756		283		30		1 356	Coal
Coke								0.1														0.2	Coke
Coke oven gas			1.6					11	10			1.7				78		11		2.8		116	Coke oven gas
Blast furnace gas								74	84		1.0	4.8				80		15		13		270	Blast furnace gas
Other coal products								2.2	15									3.7				21	Other coal products
Peat																3.1						3.1	Peat
Crude oil & NGL																24		2.2				26	Crude oil & NGL
LPG				0.1				5.2								1.0		0.2				6.5	LPG
Refinery gas			10					53									0.9	3.8		52		119	Refinery gas
Naphtha									32													32	Naphtha
Diesel oil	33		5.3	3.4			53	10		2.9	6.5		5.1	0.5		74		0.1		1.9		196	Diesel oil
Fuel oil	0.6		2.3	0.6			4.4	32			8.7		25			102	2.3	2.0		1.0		181	Fuel oil
Other petroleum products	0.9							28	24		30					35		0.3		4.3		123	Other petroleum products
Natural gas	190	5.3	283	4.4				148	54	65	432	1.9	5.5	11		3 012	47	7.8		668		4 936	Natural gas
Others	113		167	178		2.5	325	381	16	7.3	85	18	4.7	10		24		40		332		1 703	Others

Fuel consumption table for heat power generation in 2022

	Petajoules																							
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total		
Main activity producers	1 886	47	3 333	559	73 909	329	3 643	6 438	5 232	1 588	2 222	346	10	355	1 301	11 282	374	1 961	1 715	33 775	1 846	152 151	Main activity producers	
Coal	1 384		246	210	53 391	150	2 597	2 456	1 832	925	273	7.3		1.5	717	2 253	11	833	298	8 896	1 101	77 581	Coal	
Coke					88			0.5														88	Coke	
Coke oven gas					529			26	15													570	Coke oven gas	
Blast furnace gas					1 222			74	32											6.0		1 334	Blast furnace gas	
Other coal products					314			4.4	23													341	Other coal products	
Peat																5.4						5.4	Peat	
Crude oil & NGL					0.6			6.6														7.2	Crude oil & NGL	
LPG				0.1	22	1.9		5.1	8.7													38	LPG	
Refinery gas					105			40														146	Refinery gas	
Naphtha																							Naphtha	
Diesel oil	9.5	0.5	8.6	15	14	2.4	79	12	7.5	13	51	0.1	1.9	3.5	26		0.5	2.5	12	97	1.0	356	Diesel oil	
Fuel oil	1.1		21		108		6.7	169	34	4.0	147			3.4	8.7	26	9.3	35	1.0	150	0.4	724	Fuel oil	
Other petroleum products	0.1		24	3.8	117			38	8.1											97		288	Other petroleum products	
Natural gas	270	47	536	126	2 698	174	231	2 220	1 144	511	1 226	36	5.2	198	106	5 811	321	787	922	11 886	209	29 463	Natural gas	
Others	221		2 498	204	15 300	0.5	729	1 386	2 128	134	524	303	2.8	149	444	3 187	33	304	483	12 644	535	41 208	Others	
Autoproducers	336	12	429	177		2.2	349	874	372	82	568	27	36	23		3 965	48	348		1 078		8 726	Autoproducers	
Coal	12	6.5						131	140					2.8		749		266		34		1 342	Coal	
Coke								0.2														0.2	Coke	
Coke oven gas			1.2					12	11		0.2	2.1				66		12		3.2		106	Coke oven gas	
Blast furnace gas								72	82		1.4	5.1				74		18		11		263	Blast furnace gas	
Other coal products								2.7	15									4.1				21	Other coal products	
Peat																3.4						3.4	Peat	
Crude oil & NGL																24		2.6				27	Crude oil & NGL	
LPG								6.3								1.0		0.2				7.5	LPG	
Refinery gas			10					58									0.9	5.6		52		126	Refinery gas	
Naphtha								0.1	36													36	Naphtha	
Diesel oil	30		5.2	3.9			46	10		23	7.2		4.3	0.5		73		0.1		2.5		206	Diesel oil	
Fuel oil	0.6		2.7	0.9			5.2	38			8.0		21			100	2.3	2.9		1.3		183	Fuel oil	
Other petroleum products	0.7							40	20		35					35				5.6		135	Other petroleum products	
Natural gas	193	5.5	252	4.9				149	54	50	434	1.8	5.5	11		2 814	45	6.8		655		4 682	Natural gas	
Others	99		158	168		2.2	298	355	15	8.3	81	18	4.7	8.4		27		31		313		1 588	Others	

Power generation capacity - total

	Megawatts																									
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Australia	37 521	45 274	46 073	48 739	49 983	50 247	49 878	50 389	53 141	54 066	56 934	60 797	61 863	63 720	64 975	66 909	73 638	72 849	72 139	77 759	83 398	91 328	96 698	102 847	105 258	Australia
Brunei Darussalam	307	772	732	732	747	759	761	760	876	879	879	888	894	915	917	920	923	923	993	1 007	1 261	1 142	1 233	1 234	1 234	Brunei Darussalam
Canada	104 121	111 317	112 528	114 969	118 259	120 486	123 490	125 022	126 048	127 229	131 715	132 427	132 971	133 168	133 595	136 227	143 688	146 156	146 932	147 924	148 369	149 650	151 793	152 682	154 896	Canada
Chile	5 099	9 383	9 777	9 932	10 351	11 216	11 649	11 842	12 203	12 923	15 731	16 231	17 549	18 153	18 474	20 513	21 436	24 530	26 208	27 534	27 644	30 001	32 452	36 047	35 041	Chile
China	137 891	319 330	338 500	356 560	391 410	442 500	516 790	623 140	708 598	784 758	865 938	966 420	1 062 430	1 146 750	1 257 680	1 378 880	1 525 270	1 650 506	1 777 094	1 900 120	2 010 050	2 200 710	2 376 940	2 567 950	2 922 240	China
Hong Kong, China	8 342	11 568	11 568	11 606	11 683	9 703	11 804	12 380					10 645	10 645	10 645	10 645	10 645	10 713	10 557	10 353	10 386	10 834	10 967	10 876	10 961	Hong Kong, China
Indonesia	9 135	20 761	21 039	21 517	25 139	26 424	27 241	29 688	30 854	31 463	31 959	33 980	39 916	45 246	50 988	53 064	54 688	58 416	62 233	64 955	69 679	72 794	74 533	83 789	91 167	Indonesia
Japan	194 459	260 359	263 398	268 012	270 827	275 698	277 905	279 583	280 170	281 568	285 654	288 331	293 576	296 730	304 290	317 124	323 945	338 555	343 506	349 104	346 638	357 845	361 628	369 021	363 018	Japan
Korea	13 406	53 700	56 736	58 964	60 698	64 534	66 622	70 097	73 376	79 852	80 594	84 683	84 650	87 869	91 493	99 808	103 049	111 012	122 682	126 968	131 000	136 579	140 493	144 884	149 398	Korea
Malaysia	5 582	13 762	14 813	15 671	20 119	24 634	23 626	22 067	24 821	24 608	27 700	27 179	28 433	28 824	29 729	30 875	32 842	32 872	33 528	33 991	36 121	35 037	37 663	39 799	39 491	Malaysia
Mexico	26 677	40 345	42 514	45 716	49 706	52 268	52 497	55 352	57 839	58 264	59 574	61 389	62 049	64 089	64 107	66 255	67 512	72 574	74 409	87 131	94 805	95 982	105 310	114 520	118 266	Mexico
New Zealand	6 915	8 456	8 555	8 570	8 596	8 893	8 903	8 917	9 470	9 405	9 436	9 600	9 969	9 868	9 706	9 909	9 576	9 414	9 435	9 482	9 514	9 683	9 953	10 112	10 471	New Zealand
Papua New Guinea		558	558	558	564	564	250	250	290	703	703	999	1 115	1 123	1 157	950	1 310	1 318	1 224	1 245	1 246	1 239	1 241	1 223	1 295	Papua New Guinea
Peru	4 144	5 555	5 387	5 396	5 422	5 418	5 611	5 873	6 352	6 349	7 256	8 000	8 046	8 939	9 885	10 309	11 270	13 794	14 774	15 220	15 174	15 408	15 348	15 757	14 649	Peru
The Philippines	5 814	13 185	13 402	14 702	15 124	15 548	15 619	15 803	15 941	15 681	15 610	16 358	16 162	17 025	17 325	17 944	18 765	21 423	22 728	23 815	25 542	26 297	26 882	28 258	28 291	The Philippines
Russia	213 400	196 602	199 135	198 258	201 548	202 454	204 186	205 901	208 661	208 475	208 842	205 964	206 013	214 624	239 423	259 020	257 075	264 828	266 519	271 600	275 786	270 210	269 764	269 725	271 486	Russia
Singapore	3 667	6 610	7 522	7 295	7 828	9 509	10 106	10 106	10 606	10 606	10 659	10 265	10 222	10 488	11 221	12 863	13 043	13 599	13 467	13 505	12 306	11 764	11 922	12 462	11 301	Singapore
Chinese Taipei	17 809	34 772	35 532	38 096	40 106	41 958	43 163	45 050	45 879	46 371	47 974	48 897	48 807	48 433	48 877	48 491	48 747	49 960	49 753	52 680	55 915	57 738	59 375	61 944	45 539	Chinese Taipei
Thailand	8 725	20 802	20 929	22 227	22 720	25 907	26 269	26 815	28 285	30 508	30 606	31 485	31 772	33 178	34 973	34 973	34 973	48 276	49 048	50 947	52 298	54 814	59 650	60 198	12 810	Thailand
United States	719 731	811 349	848 322	905 361	948 731	963 345	978 539	986 955	995 876	1 011 254	1 026 869	1 041 009	1 055 280	1 067 878	1 065 293	1 074 544	1 072 470	1 086 849	1 100 333	1 119 130	1 127 771	1 147 892	1 180 315	1 198 174	1 240 843	United States
Viet Nam	2 537	6 250	8 323	8 542	9 002		8 822	11 823				21 542	23 527	26 475	30 662	45 083	38 537	41 463	45 452	48 689	55 206	61 676	77 548	80 133	83 534	Viet Nam

Power generation capacity - thermal power

	Megawatts																									
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Australia	29 014	36 589	37 494	40 030	41 252	41 257	39 946	40 341	42 628	43 541	46 094	48 951	49 616	49 780	49 540	49 977	55 037	53 150	50 354	50 836	50 676	51 955	52 352	52 600	52 281	Australia
Brunei Darussalam	307	772	732	732	747	759	761	760	876	879	879	888	894	914	915	919	922	922	992	1 006	1 260	1 140	1 229	1 229	1 229	Brunei Darussalam
Canada	30 287	33 183	34 703	34 967	36 923	35 088	34 020	33 509	33 664	33 310	35 698	34 787	33 410	31 662	31 522	31 246	32 675	33 172	32 895	33 163	33 342	35 068	35 277	34 232	34 232	Canada
Chile	2 421	4 931	5 326	5 453	5 861	5 970	6 387	6 574	6 783	7 389	9 601	10 050	10 871	11 125	10 797	12 324	12 621	14 501	14 882	15 060	15 015	15 649	15 802	15 802	12 327	Chile
China	101 845	237 540	253 010	265 550	289 770	329 480	391 380	483 820	556 070	602 860	651 080	709 670	768 340	819 680	870 090	932 320	1 005 540	1 060 944	1 104 946	1 144 080	1 189 570	1 245 170	1 296 780	1 333 290	1 390 990	China
Hong Kong, China	8 342	11 568	11 568	11 606	11 683	9 703	11 804	12 380	N.A.	N.A.	N.A.	N.A.	10 643	10 643	10 643	10 643	10 643	10 668	10 510	10 300	10 243	10 701	10 751	10 583	10 583	Hong Kong, China
Indonesia	7 040	17 386	17 573	10 712	14 166	15 555	16 057	17 454	18 473	18 693	19 047	21 450	26 202	30 228	34 562	36 198	35 779	38 991	42 406	43 928	47 711	50 059	63 002	71 227	77 853	Indonesia
Japan	124 984	167 840	169 975	174 254	176 472	179 403	177 849	178 713	179 412	181 859	184 404	185 187	188 327	191 942	194 337	196 664	194 388	197 589	197 088	196 650	193 408	195 380	191 875	191 613	182 299	Japan
Korea	11 065	36 338	38 581	38 871	40 994	43 834	45 282	46 596	49 715	55 805	56 333	60 158	58 005	58 766	61 446	68 549	69 530	74 868	85 641	88 240	87 428	88 756	89 185	89 144	90 527	Korea
Malaysia	4 185	11 708	12 695	13 565	18 004	22 337	21 242	19 397	21 718	21 877	24 154	24 306	24 657	24 691	24 660	24 589	25 622	25 615	26 436	26 325	28 264	26 875	28 854	30 428	29 134	Malaysia
Mexico	18 103	28 399	30 584	33 772	37 636	39 283	39 473	42 043	43 750	44 316	45 253	46 867	47 533	48 304	47 958	48 797	49 325	52 939	54 282	61 943	63 465	63 465	71 083	64 270	64 270	Mexico
New Zealand	2 296	2 705	2 762	2 682	2 672	2 873	2 811	2 822	3 200	2 986	2 844	2 860	3 069	2 927	2 677	2 679	2 299	2 129	2 129	2 132	2 132	2 242	2 242	2 008	2 203	New Zealand
Papua New Guinea		109	109	109	109	109						128	128	292	295	316	886	893	898	920	919	911	912	889	895	Papua New Guinea
Peru	1 744	2 903	2 642	2 620	2 631	2 602	2 621	2 877	3 338	3 320	4 140	4 682	4 716	5 498	6 390	6 503	6 875	8 220	9 004	9 154	9 062	9 072	8 948	9 206	7 717	Peru
The Philippines	3 661	8 953	8 953	10 253	10 325	10 399	10 393	10 542	10 663	10 397	10 301	10 921	10 772	11 504	11 784	12 047	12 435	14 465	15 649	16 588	18 132	18 633	18 969	19 994	19 874	The Philippines
Russia	149 700	130 501	131 685	130 611	133 505	134 116	135 058	136 000	138 015	138 015	137 143	134 143	134 143	139 784	163 926	182 465	179 148	185 913	186 581	190 215	191 948	186 221	183 963	183 435	185 170	Russia
Singapore	3 667	6 610	7 522	7 160	7 368	9 509	10 106	10 106	10 606	10 606	10 657	10 261	10 216	10 478	10 964	12 606	12 726	13 092	13 243	13 236	12 035	11 435	11 435	11 435	10 908	Singapore
Chinese Taipei	10 041	24 764	25 357	27 800	29 827	31 648	32 799	34 579	35 299	35 707	37 183	37 939	37 647	37 078	37 300	36 665	36 654	37 471	36 730	39 310	41 645	41 782	42 302	42 322	34 567	Chinese Taipei
Thailand	6 451	17 865	17 992	19 290	19 746	20 240	20 575	21 023	22 412	24 547	24 444	25 109	25 145	28 859	30 119	30 119	30 119	38 685	38 685	39 365	39 733	41 959	47 088	47 032		Thailand
United States	498 271	425 748	611 621	666 475	707 577	722 380	734 275	738 403	741 519	748 083	751 881	758 595	763 592	757 802	750 718	750 711	735 015	728 233	726 329	730 362	722 281	736 615	737 208	729 415	722 528	United States
Viet Nam	1 362	2 957	4 195	4 414	4 874		4 382	7 137				13 338	13 338	13 778	15 931	29 619	21 815	23 525	26 019	28 015	29 337	31 102	34 422	35 112	36 220	Viet Nam

Power generation capacity - hydro power

	Megawatts																									
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Australia	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 523	8 523	8 523	8 523	8 523	8 523	Australia
Brunei Darussalam																										Brunei Darussalam
Canada	59 381	67 407	67 059	69 206	70 374	70 857	71 978	72 838	73 458	74 407	74 687	75 078	75 573	75 537	75 511	75 474	79 405	80 304	80 831	81 570	81 570	81 383	82 307	83 312	83 312	Canada
Chile	2 678	4 430	4 427	4 455	4 466	5 222	5 224	5 230	5 356	5 433	5 452	5 467	5 946	5 992	6 094	6 445	6 499	6 671	6 656	6 627	6 341	6 818	6 797	7 502	7 409	Chile
China	36 046	79 350	83 010	86 070	94 900	105 240	117 390	130 290	148 230	172 600	196 290	216 060	232 980	249 470	280 440	304 860	319 540	332 070	343 590	352 590	358 040	370 280	390 920	414 060	422 370	China
Hong Kong, China																		0.2	0.5	0.5	0.5	0.5	0.5	0.7	0.6	Hong Kong, China
Indonesia	2 095	3 015	3 106	3 155	3 168	3 200	3 411	3 719	3 695	3 698	3 702	3 734	3 944	4 146	5 166	5 229	5 307	5 651	5 688	5 772	5 976	6 141	6 601	6 689	6 570	Indonesia
Japan	37 830	46 324	46 355	46 403	46 711	46 738	47 291	47 358	47 313	47 341	47 243	47 736	48 419	48 934	48 932	49 597	50 035	50 058	50 014	50 037	50 033	50 033	49 929	50 008	50 066	Japan
Korea	2 340	3 149	3 876	3 876	3 877	3 879	3 884	5 489	5 498	5 504	5 517	5 523	6 419	6 447	6 455	6 469	6 472	6 490	6 494	6 498	6 509	6 507	6 521	6 513	6 517	Korea
Malaysia	1 397	2 054	2 118	2 106	2 115	2 095	2 091	2 096	2 085	2 092	2 105	2 115	3 014	3 318	3 918	4 767	6 038	6 115	5 895	6 168	6 190	6 188	6 217	6 209	6 364	Malaysia
Mexico	7 839	9 653	9 653	9 649	9 658	10 573	10 598	10 800	11 577	11 433	11 474	11 597	11 571	11 626	11 633	12 464	12 223	12 580	12 628	12 628	13 076	13 301	13 303	12 838	12 838	Mexico
New Zealand	4 619	5 193	5 260	5 365	5 365	5 366	5 367	5 367	5 367	5 390	5 338	5 333	5 408	5 422	5 436	5 435	5 435	5 435	5 435	5 443	5 443	5 443	5 443	5 680	5 558	New Zealand
Papua New Guinea		163	163	163	163	163	163	163	163	161	161	254	267	267	295	295	296	296	196	196	196	198	198	261	327	Papua New Guinea
Peru	2 400	2 651	2 745	2 775	2 790	2 815	2 989	2 996	3 013	3 028	3 116	3 317	3 329	3 360	3 414	3 527	4 020	5 086	5 246	5 363	5 397	5 417	5 514	5 514	5 407	Peru
The Philippines	2 153	2 301	2 518	2 518	2 867	3 217	3 222	3 257	3 293	3 291	3 291	3 400	3 491	3 521	3 521	3 543	3 600	3 618	3 627	3 701	3 760	3 779	3 752	3 745	3 799	The Philippines
Russia	43 400	44 345	44 684	44 828	45 222	45 531	45 797	46 062	46 804	47 066	47 308	47 430	47 479	49 445	50 104	50 845	50 998	51 016	51 241	51 333	51 839	51 858	52 087	52 244	52 271	Russia
Singapore																										Singapore
Chinese Taipei	2 562	4 422	4 422	4 511	4 511	4 512	4 512	4 512	4 523	4 540	4 539	4 579	4 643	4 683	4 683	4 683	4 691	4 691	4 691	4 694	4 695	4 695	4 696	4 700	4 704	Chinese Taipei
Thailand	2 274	2 936	2 936	2 936	2 973	3 476	3 476	3 476	3 475	3 481	3 488	3 488	3 500	3 508	3 524	3 524	3 524	3 519	3 586	3 602	4 103	4 106	3 972	4 123	3 132	Thailand
United States	92 360	97 600	98 580	99 727	99 216	98 405	98 887	99 282	99 771	99 788	100 678	101 023	100 944	101 106	101 589	102 162	102 239	102 692	102 703	102 800	102 650	103 039	103 016	103 202	103 224	United States
Viet Nam	1 176	3 292	4 128	4 128	4 128		4 155	4 401				8 180	10 165	12 643	14 661	15 394	16 587	17 824	19 288	20 170	20 632	20 859	22 111	22 999	23 511	Viet Nam

Power generation capacity - nuclear power

	Megawatts																										
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Australia																										Australia	
Brunei Darussalam																										Brunei Darussalam	
Canada	13 538	10 615	10 615	10 615	10 615	12 805	13 345	13 345	13 345	13 345	12 665	12 665	12 665	13 370	14 033	14 033	14 033	14 033	14 033	13 338	13 338	12 513	12 513	11 578	11 578	Canada	
Chile																										Chile	
China		2 100	2 100	4 470	6 190	6 960	6 960	6 960	98	908	908	10 820	12 570	12 570	14 660	20 080	27 170	33 642	35 817	44 660	48 740	49 890	53 260	55 530	56 910	China	
Hong Kong, China																										Hong Kong, China	
Indonesia																										Indonesia	
Japan	31 645	45 248	45 907	45 907	45 742	47 122	49 580	49 467	49 467	47 935	48 847	48 960	48 960	46 148	44 264	44 264	42 048	41 482	39 132	38 042	33 083	33 083	33 083	33 083	33 083	Japan	
Korea		13 716	13 716	15 716	15 716	16 716	17 176	17 716	17 716	17 716	17 716	17 716	18 716	20 716	20 716	20 716	21 716	23 116	22 529	21 850	23 250	23 250	23 250	24 650	24 650	Korea	
Malaysia																										Malaysia	
Mexico	675	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 400	1 400	1 400	1 510	1 608	1 608	1 634	1 721	1 721	1 721	1 608	1 608	Mexico	
New Zealand																										New Zealand	
Papua New Guinea																										Papua New Guinea	
Peru																										Peru	
The Philippines																										The Philippines	
Russia	20 300	21 730	22 742	22 742	22 742	22 742	23 242	23 742	23 742	23 304	24 300	24 300	24 300	25 304	25 304	25 304	26 304	27 189	27 952	29 140	30 339	29 419	29 649	29 649	29 649	Russia	
Singapore																										Singapore	
Chinese Taipei	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	4 508	3 872	3 872	2 887	2 887	1 902	Chinese Taipei	
Thailand																										Thailand	
United States	99 643	97 860	98 159	98 657	99 209	99 628	99 988	100 334	100 266	100 755	101 004	101 167	101 419	101 885	99 240	98 569	98 672	99 565	99 629	99 433	98 119	96 501	95 546	94 659	95 712	United States	
Viet Nam																										Viet Nam	

Power generation capacity - Solar

	Megawatts																									
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Australia		25	29	34	39	46	52	61	73	85	332	1 091	1 421	2 511	3 312	4 137	5 035	5 880	7 242	11 128	15 453	19 772	24 396	28 887	30 675	Australia
Brunei Darussalam														1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	4.5	4.5	4.5	4.5	Brunei Darussalam
Canada		0.3	0.3	0.3	0.3	0.4	1.0	1.3	2.5	4.4	50	188	423	651	1 029	1 567	2 141	2 265	2 493	2 631	2 828	3 068	3 854	4 323	4 833	Canada
Chile														2.0	15	221	576	1 125	1 724	2 298	2 720	3 287	4 712	6 886	8 738	Chile
China											30	260	2 120	3 410	15 890	24 860	42 180	76 310	129 420	174 330	204 180	253 430	306 560	392 680	610 480	China
Hong Kong, China													1.0	1.0	1.0	1.0	1.0	3.9	5.4	6.1	96	76	160	246	331	Hong Kong, China
Indonesia													1.2	4.1	9.0	9.0	37	47	54	60	146	169	201	313	637	Indonesia
Japan		330	453	637	860	1 132	1 422	1 708	1 919	2 144	2 627	3 618	4 914	6 632	13 599	23 339	34 150	42 040	49 500	56 162	63 192	71 868	78 413	85 066	87 068	Japan
Korea	1.0	4.0	5.0	5.0	6.0	9.0	14	36	81	357	524	651	735	1 039	1 559	2 438	3 467	4 338	5 633	7 701	10 847	14 756	17 905	20 525	23 528	Korea
Malaysia														8.7	51	170	228	273	368	797	996	1 419	1 703	2 423	3 047	Malaysia
Mexico	5.0	14	15	16	16	16	16	16	19	19	25	29	39	60	82	116	181	362	620	2 081	5 166	5 612	6 903	9 451	9 632	Mexico
New Zealand									3.0	3.0	3.0	3.0	3.0	4.0	8.6	22	37	53	71	91	115	145	192	260	375	New Zealand
Papua New Guinea			0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9	1.2	1.2	1.3	3.0	3.1	3.6	3.9	3.9	Papua New Guinea
Peru														80	80	96	96	96	283	330	343	289	287	287	401	Peru
The Philippines							1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	23	165	765	885	896	921	1 019	1 317	1 530	1 653	The Philippines
Russia																227	446	536	574	678	1 418	1 739	1 979	2 140	2 140	Russia
Singapore																		126	112	157	271	329	487	634		Singapore
Chinese Taipei		0.1	0.2	0.3	0.5	0.6	1.0	1.4	2.4	5.6	10	35	130	231	410	636	884	1 245	1 768	2 738	4 150	5 817	7 700	9 724	1 693	Chinese Taipei
Thailand											9.2	26	79	372	792	792	792	2 149	2 664	2 928	2 949	2 957	2 949	3 150	3 294	Thailand
United States	339	595	459	457	681	751	881	1 099	1 439	1 618	2 086	3 382	5 644	8 613	13 045	17 651	23 442	34 716	43 115	51 570	60 827	75 794	94 786	112 842	139 927	United States
Viet Nam																				86	4 685	8 852	16 564	16 568	16 672	Viet Nam

Power generation capacity - Wind

	Megawatts																										
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Australia		33	76	106	190	379	740	819	1 249	1 441	1 703	1 864	2 127	2 561	3 221	3 797	4 318	4 683	5 407	6 409	7 881	10 207	10 555	11 966	12 908	Australia	
Brunei Darussalam																										Brunei Darussalam	
Canada	1.0	92	131	161	327	444	677	1 423	1 840	2 336	3 282	3 967	5 265	6 201	7 801	9 694	11 214	11 973	12 250	12 816	13 220	13 532	13 722	15 081	16 785	Canada	
Chile			2.0	2.0	2.0	2.0	2.0	2.0	20	20	163	163	184	202	301	736	910	1 039	1 302	1 692	1 999	2 293	3 140	3 824	4 533	Chile	
China		340	380	470	550	820	1 060	2 070	4 200	8 390	17 600	29 580	46 230	61 420	76 520	96 570	130 750	147 470	163 250	184 270	209 150	281 530	328 480	365 640	441 440	China	
Hong Kong, China													0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.8	1.3	Hong Kong, China	
Indonesia													0.9	0.9	0.6	1.1	1.5	1.5	1.5	144	154	154	154	154	152	Indonesia	
Japan		84	175	277	508	769	1 227	1 805	1 527	1 756	1 997	2 294	2 419	2 562	2 646	2 753	2 808	3 205	3 483	3 498	3 951	4 119	4 262	4 483	5 369	Japan	
Korea		14	22	26	38	31	184	190	193	298	333	367	419	492	583	645	853	1 035	1 143	1 303	1 494	1 645	1 709	1 946	2 165	Korea	
Malaysia																										Malaysia	
Mexico	3.0	17	17	18	18	18	18	101	101	101	425	519	601	1 815	2 122	2 569	3 271	4 051	4 180	4 180	6 541	6 995	7 468	7 633	11 198	Mexico	
New Zealand		36	36	53	72	166	168	169	320	322	513	540	623	623	623	682	689	690	690	690	690	690	913	994	1 146	New Zealand	
Papua New Guinea																										Papua New Guinea	
Peru		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	143	241	240	240	372	372	409	409	539	1 015	Peru	
The Philippines							25	25	25	33	33	33	33	33	33	283	427	427	427	427	427	443	427	427	427	The Philippines	
Russia		3.0	3.0	7.0	9.0	9.0	10	10	10	10	10	10	10	10	10	101	101	96	98	161	161	899	2 012	2 183	2 183	Russia	
Singapore																										Singapore	
Chinese Taipei		2.6	5.0	8.5	8.5	8.5	24	102	186	250	374	476	523	571	614	637	647	682	692	704	845	854	1 062	1 581	2 668	Chinese Taipei	
Thailand											2.5	3.3	7.3	95	185	185	185	507	626	1 100	1 504	1 528	1 510	1 543	1 544	Thailand	
United States	1 911	2 377	3 864	4 417	5 995	6 456	8 706	11 329	16 515	24 651	34 296	39 134	45 676	59 075	59 974	64 232	72 573	81 287	87 598	94 517	103 670	118 478	132 852	141 501	147 520	United States	
Viet Nam																46	90	90	90	243	377	538	4 126	5 059	5 869	Viet Nam	

Power generation capacity - Biomass

	Megawatts																										
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Australia	236	356	203	298	231	294	869	897	920	728	534	620	428	597	631	727	977	864	864	864	864	871	871	871	871	Australia	
Brunei Darussalam																										Brunei Darussalam	
Canada	914					1 272	3 449	3 886	3 719	3 807	5 313	5 722	5 615	5 727	3 679	4 193	4 200	4 389	4 410	4 386	4 051	4 086	4 120	4 156	4 156	Canada	
Chile		22	22	22	22	22	36	36	44	81	490	526	548	832	1 267	787	830	1 194	1 619	1 817	1 530	1 915	1 950	1 950	1 950	Chile	
China																										China	
Hong Kong, China																										Hong Kong, China	
Indonesia				1.5	2.6	3.3	3.5	5.2	6.0	10	11	17	34	43	29	41	1 760	1 820	1 741	1 759	1 764	1 767	2 121	2 895	3 201	Indonesia	
Japan																		3 656	3 818	4 243	2 490	2 875	3 580	4 331	4 676	Japan	
Korea		479	536	470	67	65	83	70	173	172	149	231	298	320	349	573	578	691	736	774	746	800	924	964	741	Korea	
Malaysia								441	521	566	1 330	671	739	767	901	837	744	765	734	552	441	413	436	327	515	Malaysia	
Mexico	52	42	42	53	53	53	67	67	67	67	67	47	53	60	89	96	96	108	106	67	56	56		56	56	Mexico	
New Zealand		104	80	79	86	87	99	101	103	105	102	103	105	105	105	109	110	106	109	109	109	104	104	104	111	New Zealand	
Papua New Guinea		15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	17	17	17	15	15	15	15	Papua New Guinea	
Peru																39	39	137				208	177	196	96	Peru	
The Philippines											30	38	83	119	119	131	221	233	224	258	363	483	294	404	585	The Philippines	
Russia																										Russia	
Singapore																										Singapore	
Chinese Taipei	62	69	69	98	81	81	77	77	77	77	77	77	77	77	77	77	77	77	77	77	71	71	71	71		Chinese Taipei	
Thailand																		2 815	2 939	3 155	3 192	3 505	3 330	3 542	3 870	Thailand	
United States	7 584	10 274	10 149	10 331	10 313	10 256	10 263	10 557	11 202	11 570	11 771	11 913	12 016	12 628	13 976	14 119	14 284	14 506	14 523	14 257	13 732	13 531	12 967	12 592	12 440	United States	
Viet Nam							285	285				24	24	54	70	24	45	24	55	175	175	325	325	395	1 262	Viet Nam	

Power generation capacity - others

	Megawatts																										
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
Australia												0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.3	0.3	0.3	0.3		Australia	
Brunei Darussalam																										Brunei Darussalam	
Canada	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20					Canada	
Chile											25	25							24	40	40	40	51	83	84	Chile	
China											30	30	190	200	80	190	90	70	70	190	370	410	940	6 750	50	China	
Hong Kong, China																		41	41	45	45	55	54	45	45	Hong Kong, China	
Indonesia	140	360	360	7 648	7 803	7 666	7 770	8 510	8 680	9 062	9 199	8 779	9 733	10 823	11 222	11 586	11 802	11 907	12 343	13 293	13 928	14 503	2 453	2 510	2 753	Indonesia	
Japan	270	533	533	533	535	535	535	532	532	532	535	537	537	512	512	508	517	526	471	473	481	487	487	437	456	Japan	
Korea							22	38	58	89	384	419	434	474	506	603	725	866	998	1 141	1 271				1 271	Korea	
Malaysia						202	293	132	496	74	111	87	23	40	199	513	210	103	96	148	230	142	453	412	431	Malaysia	
Mexico	700	855	838	843	960	960	960	960	960	963	965	965	887	824	823	813	906	926	985	4 598	4 780	4 832	4 832	18 664	18 664	Mexico	
New Zealand	261	418	417	391	401	401	458	458	477	599	636	761	761	787	856	982	1 006	1 001	1 001	1 025	1 025	1 059	1 059	1 066	1 078	New Zealand	
Papua New Guinea		272	272	272	278	278	72	72	112	399	399	547	547	549	551	324	111	111	111	111	111	111	54	54	54	Papua New Guinea	
Peru																		15				13	14	14	13	Peru	
The Philippines	1 055	1 931	1 931	1 931	1 932	1 932	1 978	1 978	1 958	1 958	1 953	1 966	1 783	1 848	1 868	1 918	1 917	1 916	1 916	1 944	1 939	1 939	2 123	2 158	1 952	The Philippines	
Russia		23	21	70	70	56	79	87	90	80	81	81	81	81	79	78	78	78	74	74	81	74	74	74	74	74	Russia
Singapore				135	460						2.0	4.0	6.0	10	257	257	317	382	112	112			393	393	393	Singapore	
Chinese Taipei		371	534	534	534	564	606	634	647	647	647	647	643	648	648	648	649	649	649	649	638	647	658	659	5.0	Chinese Taipei	
Thailand		0.6	0.6	0.6	0.6	2 191	2 218	2 316	2 398	2 480	2 662	2 859	3 041	344	353	353	353	601	548	797	817	759	800	809	970	Thailand	
United States	2 669	2 793	2 216	2 252	2 133	2 403	2 761	2 750	2 690	2 651	2 755	2 752	2 764	3 847	4 148	4 523	3 812	3 802	4 524	3 801	3 914	3 936	3 941	3 962	19 493	United States	
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A. Definition of products

Coal

This section includes coal, i.e., solid fossil fuel consisting of carbonized vegetal matter, and coal products derived directly or indirectly from the various classes of coal by carbonization or pyrolysis processes, by the aggregation of finely divided coal or by chemical reactions with oxidizing agents, including water.

Anthracite

A high-rank, hard coal with a gross calorific value (moist, ash-free basis) greater than or equal to 24 MJ/kg and a Vitrinite mean random reflectance greater than or equal to 2.0 per cent.

Coking coal

A medium-rank hard coal with either a gross calorific value (moist, ash-free basis) not less than 24 MJ/kg and with a Vitrinite mean random reflectance less than 2%, or a gross calorific value (moist, ash-free basis) less than 24 MJ/kg provided that the Vitrinite mean random reflectance is equal to or greater than 0.6%.

Bituminous coal

A medium-rank hard coal with either a gross calorific value (moist, ash-free basis) not less than 24 MJ/kg and with a Vitrinite mean random reflectance less than 2%, or a gross calorific value (moist, ash-free basis) less than 24 MJ/kg provided that the Vitrinite mean random reflectance is equal to or greater than 0.6%.

Lignite

A brown coal with a gross calorific value (moist, ash-free basis) less than 20 MJ/kg.

Peat

A solid formed from the partial decomposition of dead vegetation under conditions of high humidity and limited air

access (initial stage of coalification). It is available in two forms for use as a fuel, sod peat and milled peat.

Patent fuel

A composition fuel made by moulding hard coal fines into briquette shapes with the addition of a binding agent.

Coke

Coke comprises coke oven coke and gas coke.

Coke oven coke

The solid product obtained from carbonisation of coking coal at high temperature. Coke oven coke is low in moisture, and volatile matter and has the mechanical strength to support a blast furnace charge. It is used mainly in the iron and steel industry acting as heat source and chemical agent.

Gas coke

A by-product from the carbonisation of bituminous coal for the manufacture of gas works gas. Gas coke is used mainly for heating purposes.

Coal tar

The liquid by-product of the carbonisation of coal in coke ovens.

BKB /PB

BKB is a composition fuel made of brown coal produced by briquetting under high pressure with or without the addition of a binding agent.

PB is a fuel comprising small blocks of dried, highly compressed peat made without a binding agent.

Gas works gas

This group includes gases obtained from the carbonisation or gasification of

carbonaceous material of fossil or biomass origins in gas works. The gases comprise:

- Gases obtained from carbonisation or gasification of coal, cokes, biomass, or waste; and
- Substitute natural gas (a methane-rich gas) made from synthesis gas.

Coke oven gas

It is gas produced from coke ovens during the manufacturing of coke oven coke.

Blast furnace gas

The by-product gas of blast furnace operation consisting mainly of nitrogen, carbon dioxide and carbon monoxide. The gas is recovered as it leaves the furnace. Its calorific value arises mainly from the carbon monoxide produced by the partial combustion of coke and other carbon-bearing products in the blast furnace. It is used to heat blast air and is also used as a fuel in the iron and steel industry. It may also be used by other nearby industrial plants. Note that where carbonised biomass (e.g., charcoal and animal meal) is used in blast furnaces, part of the carbon supply may be considered renewable.

Oxygen steel furnace gas

It is the by-product gas of the production of steel in a basic oxygen furnace. The gas is recovered as it leaves the surface.

Oil

Crude oil

A mineral oil of fossil origin extracted by conventional means from underground reservoirs and comprises either liquid or near-liquid hydrocarbons and associated impurities such as sulphur and metals.

It exists in the liquid phase under normal surface temperature and pressure, and usually flows to the surface under the pressure of the reservoir. This is termed

conventional extraction. Crude oil includes condensate from condensate fields, and 'field' or 'lease' condensate extracted with the crude oil.

Natural gas liquids (NGLs)

A mixture of ethane, propane, butane (normal and iso), (iso) pentane and a few higher alkanes collectively referred to as pentanes plus.

NGLs are produced in association with oil or natural gas. They are removed in field facilities or gas separation plants before sale of the gas. All the components of NGL except ethane are either liquid at the surface or are liquefied for disposal.

Refinery feedstocks

Oils or gases from crude oil refining or the processing of hydrocarbons in the petrochemical industry which are destined for further processing in the refinery excluding blending. Typical feedstocks include naphtha, middle distillates, pyrolysis gasoline and heavy oils from vacuum distillation and petrochemical plants.

Additives and Oxygenates

Compounds added to or blended with oil products to modify their properties (octane, cetane, cold properties, etc.). Examples of these products include:

- Oxygenates such as alcohols (methanol, ethanol).
- Ethers such as methyl tertiary butyl ether (MTBE), ethyl tertiary butyl (ETBE), and tertiary amyl methyl ether (TAME).
- Esters such as (e.g., rapeseed or dimethyl ester, etc.)
- Chemical compounds such as tetramethyl lead (TML), tetraethyllead (TEL) and detergents.

Some additives and oxygenates may be

derived from biomass while others may be of hydrocarbon origin.

Biofuels

Fuels derived directly or indirectly from biomass.

Biogasoline

Liquid fuels derived from biomass and used in spark-ignition internal combustion engines.

Biodiesel

Liquid biofuels derived from biomass and used in diesel engines.

Bio-jet kerosene

Liquid biofuels derived from biomass and blended with or replacing jet kerosene.

Bioethanol

Ethanol produced from biomass and/or biodegradable fraction of waste.

Biomethanol

Methanol produced from biomass and/or the biodegradable fraction of waste.

Bio-oil

A pyrolysis oil fuel produced from biomass.

Other hydrocarbons

These are non-conventional oil and hydrogen. Non-conventional oils refer to oils obtained through non-conventional production techniques. Oils are extracted from reservoirs containing extra heavy oils or oil sands which need heating or treatment (e.g., emulsification) in situ before they can be brought to the surface for refining/processing. They also include oils extracted from oil sands, extra heavy oils, coal, and oil shale which are at, or can be brought to the surface without treatment and require processing after mining (ex situ processing). Non-conventional oils may also be produced from natural gas.

Hydrogen, although not a hydrocarbon, is included unless it is a component of another gas.

Refinery gas (not liquefied)

A mixture of non-condensable gases mainly consisting of hydrogen, methane, ethane, and olefins obtained during distillation of crude oil or treatment of oil products (e.g., cracking) in refineries or from nearby petrochemical plants. It is used mainly as a fuel within the refinery.

Ethane

A naturally gaseous straight-chain hydrocarbon (C_2H_6). Ethane is obtained at gas separation plants or from the refining of crude oil. It is a valuable feedstock for petrochemical manufacture.

Liquefied petroleum gases (LPG)

Refers to liquefied propane (C_3H_8) and butane (C_4H_{10}) or mixtures of both. Commercial grades are usually mixtures of the gases with small amounts of propylene, butylene, isobutene, and isobutylene stored under pressure in containers.

Naphtha

Refers to light or medium oils distilling between $30^{\circ}C$ and $210^{\circ}C$ which do not meet the specification for motor gasoline. The main uses for naphtha are as feedstock for high octane gasolines and the manufacture of olefins in the petrochemical industry.

Gasolines

Complex mixtures of volatile hydrocarbons distilling between approximately $25^{\circ}C$ and $220^{\circ}C$ and consisting of compounds in the C_4 to C_{12} range.

Motor gasoline

Motor gasoline is a mixture of some aromatics (for example, benzene and toluene) and aliphatic hydrocarbons in the

C5 to C12 range. The distillations range is 25°C to 220°C. Motor gasoline may also contain biogasoline products.

Aviation gasoline

Aviation gasoline is gasoline prepared especially for aviation piston engines with additives which assure performance under flight conditions. Aviation gasolines are predominantly alkylates (obtained by combining C4 and C5 isoparaffins with C3, C4 and C5 olefins) with the possible addition of more aromatic components including toluene. The distillation range is 25°C to 170°C.

Gasoline-type jet fuel

This includes all light hydrocarbon oils for use in aviation turbine power units, distilling between 100°C and 250°C. They are obtained by blending kerosene and gasoline or naphtha in such a way that the aromatic content does not exceed 25% in volume and the vapor pressure is between 13.7 kilopascal (kPa) and 20.6 kPa.

Kerosene

Comprise kerosene-type jet fuel and other kerosene. This is a mixture of hydrocarbons in the range C9 to C16 distilling over the temperature interval 145°C to 300°C, but not usually above 250°C, and with a flash point above 38°C.

Kerosene-type jet fuel

This is a blend of kerosene suited to flight conditions with particular specifications, such as freezing point. The specifications are set down by a small number of standards committees from certain economies, most notably, ASTM (US), MOD (UK), GOST (Russia).

Other kerosene

Kerosene used for heating, cooking, lighting, solvents, and internal combustion engines. Other names of this product are

burning oil, vaporising oil, power kerosene and illuminating oil.

Gas/Diesel oil (Distillate fuel oil)

Middle distillates, predominantly of carbon number range C11 to C25 and with a distillation range of 160°C to 420°C. This product comprises road diesel and heating or other gas oil.

Fuel oil

This comprises residual fuel oil and heavy fuel oil which is usually a blended product based on the residues from various refinery, distillation, and cracking processes. Residual fuel oils A-5 have a distillation range of 350°C to 650°C and a kinematic viscosity in the range 6 to 55 centistokes (cSt) at 100°C. Their flash point is always above 60°C and their specific gravity is above 0.95.

White spirit and SBP

White spirit and special boiling point industrial spirits (SBP) are refined distillate intermediates with a distillation in the naphtha/kerosene range. They are mainly used for non-fuel purposes.

White spirit

An industrial spirit with a flash point above 30°C and a distillation range of 135°C to 200°C.

SBP

Light oils distilling between 30°C and 200°C.

Lubricants

Oils, produced from crude oil, for which the principal use is to reduce friction between sliding surfaces and during metal cutting operations.

Bitumen

A solid, semi-solid or viscous hydrocarbon with a colloidal structure, being brown to

black in color. It is obtained as a residue in the distillation of crude oil and by vacuum distillation of oil residues from atmospheric distillation. It should not be confused with the nonconventional primary extra heavy oils which may also be referred to as bitumen.

Paraffin waxes

Residues extracted when dewaxing lubricant oils. The waxes have a crystalline structure which varies in fineness according to the grade, and are colourless, odourless and translucent, with a melting point above 45°C.

Petroleum coke

A black solid obtained mainly by cracking and carbonising heavy hydrocarbon oils, tars, and pitches. It consists mainly of carbon (90 to 95 per cent) and has a low ash content. The two most important categories are 'green coke' and 'calcined coke'. Green coke (raw coke) is the primary solid carbonisation product from high boiling hydrocarbon fractions obtained at temperatures below 630°C. It contains 4-15 per cent by weight of matter that can be released as volatiles during subsequent heat treatment at temperatures up to approximately 1330°C. Calcined coke is a petroleum coke or coal-derived pitch coke obtained by heat treatment of green coke to about 1330°C. It will normally have a hydrogen content of less than 0.1 per cent by weight.

Other products

Other products include products (including partly refined products) from the refining of crude oil and feedstocks which are not specified above.

Gas

Natural gas

A mixture of gaseous hydrocarbons, primarily methane, but generally also including ethane, propane and higher hydrocarbons in much smaller amounts and some non-combustible gases such as nitrogen and carbon dioxide.

Associated gas

Gas produced in association with crude oil.

Non-associated gas

Gas originating from fields producing hydrocarbons only in gaseous form.

Colliery gas

Gas recovered from coal mines.

Shale gas

Natural gas produced from hydrocarbon-rich shale formation. Shale gas is typically a dry gas primarily composed of methane (90 per cent or more), but some formations do produce wet gas.

Coal seam gas

Coal seam gas (also known as coal bed methane) is a form of natural gas extracted from coal seams.

LNG

Liquid natural gas (LNG) is produced by liquefaction of natural gas, liquefied by reducing its temperature to simplify storage and transportation when production sites are remote from centres of consumption and pipeline transportation is not economically practicable.

New and renewable energy

Fuelwood

Fuelwood (in log, brushwood, pellet, or chip form) obtained from natural or managed forests or isolated trees. Also included are

wood residues used as fuel and in which the original composition of wood is retained. Charcoal and black liquor are excluded.

Woodwaste

Yard trash and types of waste typically generated by sawmills, plywood mills, and woodyards associated with the lumber and paper industry, such as wood residue, cut-offs, wood chips, sawdust, wood shavings, bark, wood refuse, wood-fired boiler ash, and plywood or other bonded materials that contain only phenolic-based glues or other glues that are approved specifically by the administrative authority.

Bagasse

The fuel obtained from the fibre which remains after juice extraction in sugar cane processing.

Charcoal

The solid residue from the carbonisation of wood or other vegetal matter through slow pyrolysis.

Other biomass

All other solid biomass products not specifically mentioned above. This includes agricultural wastes such as straw, rice husks, nut shells, poultry litter, crushed grape dregs, palm oil bunches, etc. The quantity of fuel used should be reported on a net calorific value basis.

Biogas

Gases arising from the anaerobic fermentation of biomass and the gasification of solid biomass (including biomass in wastes).

Landfill gas

Biogas from the anaerobic fermentation of organic matter in landfills.

Sewage sludge gas

Biogas from the anaerobic fermentation of waste matter in sewage plants.

Other biogas

Other biogases from anaerobic fermentation not elsewhere specified.

Industrial waste

Non-renewable waste which is combusted with heat recovery in plants other than those used for the incineration of municipal waste.

Municipal solid waste (renewables)

Household waste and waste from companies and public services that resembles household waste, and which is collected at installations specifically designed for the disposal of mixed wastes with recovery of combustible liquids, gases, or heat.

Liquid biofuels

Liquids derived from biomass and used as fuels.

Biogasoline

Refers to liquid fuels derived from biomass and used in spark-ignition internal combustion engines. Biogasoline may be blended with petroleum gasoline or used directly in engines. The blending may take place in refineries or at or near the point of sale.

Bioethanol

Refers to ethanol produced from biomass.

Biodiesel

Refers to liquid biofuels derived from biomass and used in diesel engines. Biodiesels may be blended with petroleum diesel or used directly in diesel engines.

Bio-jet kerosene

Refers to liquid biofuels derived from biomass and blended with or replacing jet kerosene.

Hydro

Electricity produced from devices that are driven by fresh, flowing or falling water.

Geothermal

Electricity and heat generation produced from geothermal plants.

Solar

Electricity from solar photovoltaics

Refers to electricity produced by the direct conversion of solar radiation through photovoltaic processes in semiconductor devices (solar cells), including concentrating photovoltaic systems.

Heat from concentrating solar thermal

Refers to high temperature heat produced from solar radiation captured by concentrating solar thermal systems. The high temperature heat can be transformed to generate electricity, drive chemical reactions, or be used directly in industrial processes.

Heat from non-concentrating solar thermal

Refers to low temperature heat produced from solar radiation captured by non-concentrating solar thermal systems.

Tide/wave/ocean

Electricity produced from tide/wave/ocean.

Wind

Electricity produced from devices driven by wind.

Electricity and heat

Electricity

Electricity is an energy carrier with a wide range of application. It is used in almost all kinds of human activity ranging from industrial production, household use, agriculture, commerce for running machines, lighting, and heating.

Heat

Heat is an energy carrier primarily used for warming spaces and industrial processes. Heat energy reported in this publication includes district cooling energy. District cooling is the production and delivery of chilled water via insulated pipelines from central water chilling plants to various costumers. Economies that are utilising district cooling energy include China; Hong Kong, China; Japan and Korea.

Sources of electricity and heat:

Thermal

Electricity and heat generation from combustible fuels such as coal, oil, and gas.

Hydro

Electricity generation from hydro plants, including pumped up (pumped storage) plants.

Nuclear

Electricity and heat generation from nuclear plants.

Geothermal

Electricity and heat generation from geothermal plants.

Renewable energy

Electricity and heat generation from solar, biomass, and waste and electricity generation from tide, wave, ocean, and wind.

Solar

- Electricity: quantity of electricity generated by solar photovoltaics and from solar thermal systems.
- Heat: solar energy exploited for hot water production by flat plate collectors which are mainly of the thermosyphon type. This heat is mainly for domestic hot water or for the seasonal heating of swimming pools.

Note: Passive solar energy for the direct heating, cooling, and lighting dwellings or other buildings is not included.

Tide/wave/ocean

Electricity produced from tide/wave/ocean.

Wind

Electricity produced from devices driven by wind.

Biomass

Electricity and heat produced by fuelwood, wood waste, bagasse, other biomass, biogas, and liquid biofuels.

Waste

Electricity and heat produced by industrial waste and municipal solid waste.

Others

Electricity and heat generation from other fuel sources such as fuel cells, etc.

B. Definition of flows

1. Supply

Domestic supply = indigenous production + from other sources + imports – exports – international marine bunkers – international aviation bunkers ± stock changes.

Production

Production is defined as the capture, extraction or manufacture of fuels or energy in forms which are ready for general use. In energy statistics, two types of production are distinguished, primary and secondary.

Primary production

The capture or extraction of fuels or energy from natural energy flows, the biosphere, and natural reserves of fossil fuels within the economy territory in a form suitable for use. Inert matter removed from the extracted fuels and quantities reinjected, flared, or vented are not included. The resulting products are referred to as 'primary' products.

Secondary production

The manufacture of energy products through the process of transformation of primary fuels or energy. The quantities of secondary fuels reported as production include quantities lost through venting and flaring during and after production. In this manner, the mass, energy, and carbon within the primary source(s) from which the fuels are manufactured may be balanced against the secondary fuels produced. Fuels, electricity, and heat produced are usually sold but may be partly or entirely consumed by the producer.

There are a few specificities according to the fuels:

Oil

Production includes only marketable production, and excludes volumes returned to formation. Such production should include all crude oil, NGL, condensates and oil from shale and tar sand, etc. It should also include the receipts of additives/oxygenates by refineries and

blending plants from outside the refinery sector.

Natural gas

All dry marketable production is measured after purification and extraction of NGLs and sulphur. Quantities reinjected, vented, or flared, are not included. Production includes quantities used within the natural gas industry, in gas extraction, pipeline systems and processing plants.

Calculation of production of hydro, geothermal, solar, wind, etc. and nuclear follows some conventions used by selected international organisations.

With regards to the production of secondary energy in the basic energy statistics, production of secondary oil products represents the gross refinery output. Secondary coal products and gases represent the output from coke ovens, gas works, blast furnaces and other transformation processes. In the energy balances production of secondary products is zero and the gross refinery output is included in the transformation sector.

Production from other sources

Refers to both primary energy that has not been accounted for under production and secondary energy that has been accounted for in the production of another fuel. Examples include:

- additives and other hydrocarbons produced from coal, gas, or renewables.
- oil and coal used in natural gas blending plants to adjust calorific value.
- recovered slurries, middling and other low grade coal products which cannot be classified according to the main categories of coal.

Imports and exports

Imports of energy products

Comprise all fuel and other energy products entering the economy territory. Goods simply being transported through an economy (goods in transit) and goods temporarily admitted are excluded but re-imports, which are domestic goods exported but subsequently readmitted, are included. The bunkering of fuel outside the reference territory by economy merchant ships and civil aircraft engaged in international travel is excluded from imports. Fuels delivered to economy merchant ships and civil aircraft which are outside of the economy territory and are engaged in international travel should be classified as 'international marine' or 'aviation bunkers', respectively, in the economy where such bunkering is carried out. Note that the 'economy of origin' of energy products should be recorded as an economy from which goods were imported.

Exports of energy products

Comprise all fuel and other energy products leaving the economy territory with the exception that exports exclude quantities of fuels delivered for use by merchant (including passenger) ships and civil aircraft, of all origins, during international transport of goods and passengers. Goods simply being transported through an economy (goods in transit) and goods temporarily withdrawn are excluded but re-exports, foreign goods exported in the same state as previously imported, are included. Fuels delivered to foreign merchant ships and civil aircraft engaged in international travel are classified as 'international marine' or 'aviation bunkers', respectively. Note that 'economy of destination' of energy products (that is economy of the last known destination as it is known at the time of exportation) should be recorded as an

economy to which these products are exported to.

Quantities of crude oil and products imported or exported under processing agreements (i.e., refining on account) should be included. Crude oil and NGLs should be reported as coming from the economy of ultimate origin; refinery feedstocks and finished products should be reported as coming from the economy of last consignment. Any gas liquids (e.g., LPG) extracted during the regasification of imported liquefied natural gas should be included as imports. Petroleum products imported or exported directly by the petrochemical industry should be included.

Note(s):

- Imports or exports of ethanol (reported in the Additives/Oxygenate column) should relate to the quantities destined for fuel use.
- Re-exports of oil imported for processing within bonded areas should be included as an export of product from the processing economy to the final destination.

International marine bunkers

International marine bunkers are quantities of fuels delivered to merchant (including passenger) ships, of any origin, for consumption during international voyages transporting goods or passengers. International voyages take place when the ports of departure and arrival are in different economy territories. Fuels delivered for consumption by ships during domestic transportation, fishing or military uses are not included here. For the purposes of energy statistics, International marine bunkers are not included in exports. Consumption of warships should be included in final consumption under other sector, not elsewhere specified. Consumption by ships engaged in fishing

and in transport in inland and coastal waters is not included.

International aviation bunkers

International aviation bunkers are quantities of fuels delivered to civil aircraft, of any origin, for consumption during international flights transporting goods or passengers. International flights take place when the ports of departure and arrival are in different economy territories. Fuels delivered for consumption by aircraft undertaking domestic or military flights are not included here. Fuels used by airlines for their road vehicles are excluded. The domestic/international split should be determined based on departure and landing locations and not by the economy origin of the airline.

Stock changes

Stocks are quantities of energy products that can be held and used to:

- Maintain service under conditions where supply and demand are variable in their timing or amount due to normal market fluctuations, or
- Supplement supply in the case of a supply disruption. Stocks used to manage a supply disruption may be called 'strategic' or 'emergency' stocks and are often held separately from stocks designed to meet normal market fluctuations.

Stock changes are defined as the increase (stock build) or decrease (stock draw) in the quantity of stock over the reporting period. They are calculated as a difference between the opening and closing stocks.

Transfers

This refers to products transferred and inter-product transfers. Product transferred refers to the reclassification (renaming) of products which is necessary when finished oil products are used as feedstock in

refineries. Inter-product transfers refer to the movements of fuels between product categories because of reclassification of a product which no longer meets its original specification. The transferred product is often blended with its host. For example, quantities of kerosene may be reclassified as gas oil after blending with the latter to meet its winter diesel specification.

Statistical difference

This is the difference between calculated and observed gross inland deliveries. Administrations of economies sometimes obtain the data components of domestic availability from a variety of sources. Owing to differences in concepts, coverage, timing, and definitions, observed and calculated gross inland deliveries are often not identical.

2. Transformation

Transformation is the process where the movement of part or all the energy content of a product entering a process to one or more different products leaving the process (e.g., coking coal to coke, crude oil to petroleum products, and heavy fuel oil to electricity). The transformation can take place in various plants explained below:

Electricity plants

Electricity plants refer to plants producing only electricity. The electricity may be obtained directly from natural sources such as hydro, geothermal, wind, tidal, marine, solar energy or from fuel cells or from the heat obtained from the combustion of fuels or nuclear reactions.

Combined heat and power plants (CHP)

Combined heat and power plants refer to plants which produce both heat and electricity from at least one generating unit in the plant. They are sometimes referred to as 'co-generation' plants. Both main activity producer (formerly known as

public) and autoproducer plants are included here.

Heat plants

Heat plants refer to plants (including heat pumps and electric boilers) designed to produce heat only for deliveries to third parties. Both main activity producer (formerly known as public) and autoproducer plants are included here. Deliveries of fuels for heat generated by an establishment for its own use are classified within the part of final consumption where they are consumed.

Heat plants also include district cooling plants. District cooling plants produce chilled water for deliveries to third parties. Chilled water is used for air-conditioning.

Blast furnace

Blast furnaces are furnaces which produce blast furnace gas as a by-product when making pig iron from iron ore. During the process, carbon, mainly in the form of coke, is added to the blast furnace to support and reduce the iron oxide charge and provide heat. Blast furnace gas comprises carbon monoxide and other gases formed during the heating and reduction process.

Gas works

Gas works plants are to produce town gas/gas work gas by carbonisation (including gas produced by coke ovens and transferred to gas works gas), by total gasification with or without enrichment with oil products (LPG, residual fuel oil, etc.) and by reforming and simple mixing of gases and/or air.

Coke ovens

Coke ovens are facilities for the carbonisation of coal, principally coking coal, at high temperature. The transformation process provides to

produce coke and by-products such as coke oven gas and coal tar.

Patent fuel plants

Patent fuel plants are for the manufacturing of a composition fuel made of hard coal fines and addition of a binding agent.

BKB plants

BKB (brown coal briquettes) plants are for the manufacturing of a composition fuel made of lignite/brown coal (including dried lignite fines and dust) produced by briquetting under high pressure without the addition of a binding agent. This includes peat briquettes plants which produce a similar composition fuel using peat.

Petroleum refineries

Petroleum refineries are industrial plants which transform crude oil and other hydrocarbons into finished oil products. Typical finished products are liquefied petroleum gases, naphtha, motor gasoline, gas oils, aviation fuels and other kerosene, and fuel oils.

Petrochemical industry

Petrochemical industries are industrial plants which convert hydrocarbon feedstock into organic chemicals, intermediate compounds, and finished products such as plastics, fibres, solvents, and surfactants. Feedstock used by the plant is usually obtained from the refinery and includes naphtha, ethane, propane, and middle distillate oils (for example, gas oil). Quantities of backflows or petroleum products returned from the petrochemical sector, whether returned to refineries for further processing/blending or used directly. Note: energy use in the petrochemical sector is reported in the Energy sector, non-energy use is shown in the chemical/petrochemical industrial sector as non-energy.

Liquefaction plants

Liquefaction plants include diverse liquefaction processes, such as coal liquefaction plants and gas-to-liquid plants. Coal liquefaction plants are facilities where coal is used to produce liquid fuels suitable for transportation applications by the removal of carbon or addition of hydrogen, either directly or indirectly.

Natural gas blending plants

These are plants, separate from gas works, in which substitute natural gas, petroleum gases or biogases are mixed with natural gas for distribution in the gas mains. Where blending of substitute natural gas with natural gas takes place within gas works the blending is considered part of the gas works process.

Charcoal production plants

Charcoal plants are facilities in which wood or other vegetal matter is carbonised through slow pyrolysis to produce charcoal.

Other transformation plants

Other transformation plants represent other energy transformation processes not already covered by the list of definition.

3. Energy sector

The energy sector follows the International Standard Industrial Classification (ISIC) and covers ISIC Divisions 05, 06, 19 and 35. The energy sector includes the manufacture of chemical materials for atomic fission and fusion and the products of these processes. Fuels used in the manufacture of fuel briquettes and packaged fuel from coal or lignite and consumption in coke ovens and other transformation industries should also be reported here.

Fuels used by the energy industry to support the extraction (mining, oil and gas production) or transformation activity are

reported in this category. For example: fuel used for heating, lighting, or operating pumps/compressors, or used as inputs fuel into furnaces or ovens. Note that quantities of fuels transformed into another energy form should be reported under the transformation sector. Consumption used in support of the operation of pipelines (oil, gas and coal slurry) should be reported in the transport sector.

4. Final energy consumption

The term final energy consumption (equal to the sum of the consumption in the end-use sectors: industry, transport, residential, commercial/public services, agriculture/forestry, fishing and non-specified) implies that energy used for transformation and for own use of the energy producing industries is excluded. Final consumption reflects for the most part deliveries to consumers. It does not include consumption for non-energy purposes.

Industry

Industry sector covers all industrial undertakings as enumerated below. Sectors included are iron and steel; chemical including petrochemical; non-ferrous metals; non-metallic mineral products; transport equipment; machinery; mining (excluding energy producing industries) and quarrying; food processing, beverages and tobacco; pulp, paper and printing; wood and wood products (other than pulp and paper); construction; textile and leather; not elsewhere specified.

Iron and steel

Covers ISIC Group 241 and Class 2431. The consumption in coke ovens and blast furnaces are defined as part of transformation processes and energy industry own use.

Chemical including petrochemical

Refers to ISIC Division 20 and 21, excluding ISIC 2011. The consumption by plants manufacturing charcoal or enrichment/production of nuclear fuels is excluded, as these plants are considered part of the energy industries.

- Includes manufacture of basic chemicals, fertilisers and nitrogen compounds, plastics and synthetic rubber in primary forms (ISIC 201)
- Other chemical products (ISIC 202), Man-made fibers (ISIC 203)
- Non-ferrous metals
- Refers to ISIC Group 242 and Class 2432.
- Manufacture of precious and non-ferrous metals (ISIC 242)
- Casting of non-ferrous metals (ISIC Class 2432)

Non-metallic minerals products

Covers ISIC Division 23, i.e.: Glass, ceramic, cement and other building materials industries.

- Manufacture of glass and glass products (ISIC 231)
- Non-metallic mineral products (ISIC 239) such as ceramics, tiles, baked clay products and cement

Transport equipment

Covers ISIC Division 29 and 30, i.e.:

- Manufacture of motor vehicles (ISIC 291) bodies for motor vehicles and semi-trailers (ISIC 292)
- Manufacture of parts and accessories for motor vehicles (ISIC 293)
- Building of ships and boats (ISIC 301)
- Manufacture of railway locomotives and rolling stock (ISIC 302)
- Manufacture of air and spacecraft and related machinery (ISIC 303)
- Manufacture of transport equipment not elsewhere classified (ISIC 309)

Machinery

Refers to Fabrication of metal products, machinery and equipment other than transport equipment. ISIC Division 25, 26, 27 and 28.

Includes manufacture of:

- Structural metal products, tanks, reservoirs and steam generators (ISIC 251)
- Weapons and ammunition (ISIC 252)
- Other fabricated metal products; metalworking service activities (ISIC 259)
- Electronic components and boards (ISIC 261)
- Computers and peripheral equipment (ISIC 262)
- Communication equipment (ISIC 263)
- Consumer electronics (ISIC 264)
- Measuring, testing, navigating and control equipment; watches and clocks (ISIC 265)
- Irradiation, electromedical and electrotherapeutic equipment (ISIC 266)
- Optical instruments and photographic equipment (ISIC 267)
- Magnetic and optical media (ISIC 268)
- Electric motors, generators and transformers and electricity distribution and control apparatus (ISIC 271)
- Batteries and accumulators (ISIC 272)
- Wiring and wiring devices (ISIC 273)
- Electric lighting equipment (ISIC 274)
- Domestic appliances (ISIC 275)
- Other electrical equipment (ISIC 279)
- General purpose machinery (ISIC 281)
- Special purpose machinery (ISIC 282)

Mining (excluding energy producing industries) and quarrying

Refers to ISIC Divisions 13 and 14, i.e.:

- Mining of iron ores (ISIC 131)
- Mining of non-ferrous metal ores (ISIC 132)

- Quarrying of stone, sand and clay (ISIC 141)
- Mining and quarrying not elsewhere classified (ISIC 142)

Food, beverages and tobacco

Refers to ISIC Division 10, 11 and 12, i.e.:

- Processing and preserving of meat, fish, crustaceans and molluscs, fruit and vegetables (ISIC 101, 102, 103)
- Manufacture of vegetable and animal oils fats, dairy products (ISIC 104, 105)
- Manufacture of grain mill products, starches and starch products (ISIC 106)
- Manufacture of other food products (ISIC 107)
- Manufacture of prepared animal feeds (ISIC 108)
- Manufacture of beverages (ISIC 110)
- Manufacture of tobacco products (ISIC 120)

Pulp, paper and printing

Refers to ISIC Division 17 and 18. Includes production of recorded media.

- Manufacture of paper and paper products (ISIC 170)
- Printing and service activities related to printing (ISIC 181)
- Reproduction of recorded media (ISIC 182)

Wood and wood products (other than pulp and paper)

Refers to ISIC Division 16, i.e.:

- Sawmill and planing of wood (ISIC 161)
- Manufacture of products of wood, cork, straw and plaiting materials (ISIC 162)

Construction

Refers to ISIC Division 41, 42 and 43, i.e.:

- Construction of buildings (ISIC 410)

- Construction of roads and railways (ISIC 421)
- Construction of utility projects (ISIC 422)
- Construction of other civil engineering projects (ISIC 429)
- Demolition and site preparation (ISIC 431)
- Electrical, plumbing and other construction installation activities (ISIC 432)
- Building completion and finishing (ISIC 433)
- Other specialised construction activities (ISIC 439)

Textile and leather

Refers to ISIC Divisions 13, 14 and 15, i.e.:

- Spinning, weaving and finishing of textiles (ISIC 131)
- Manufacture of other textiles (ISIC 139)
- Manufacture of wearing apparel except fur apparel (ISIC 141)
- Manufacture of articles of fur (ISIC 142)
- Manufacture of knitted and crocheted fabrics and apparel (ISIC 143)
- Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur (ISIC 151)
- Manufacture of footwear (ISIC 152)

Not elsewhere specified

If your economy's industrial classification does not correspond to the above ISIC, please estimate the breakdown by industry and include in "not elsewhere specified" only consumption in sectors which is not covered above. This covers ISIC Division 22, 31 and 32, i.e.: manufacture of

- Rubber products (ISIC 221)
- Plastic products (ISIC 222)
- Furniture (ISIC 310)

- Jewelry, bijouterie and related articles (ISIC 321)
- Musical instruments (ISIC 322)
- Sports goods (ISIC 323)
- Games and toys (ISIC 324)
- Medical and dental instruments and supplies (ISIC 325)
- Others manufacturing not elsewhere classified (ISIC 329)

Transport

All transport activities irrespective of the economic sector in which the activity occurs. Refers to ISIC Divisions 49, 50 and 51.

Domestic air transport

Refers to domestic aircraft - commercial, private, agricultural, etc. include oil used for purposes other than flying, e.g., bench-testing of engines. Military use of aviation fuels also should be excluded here.

Road

Transport by road vehicles. It includes agricultural highway use but excludes motor gasoline used in stationary engines (included in the other sector) and diesel oil for non-highway use in tractors (included in agriculture). Lubricants for use in road vehicles should be included here. Bitumen for use in road surfacing and gas oil used in engines at construction sites should not be included here but should be included in the industry subsector 'construction' below.

Rail

Refers to rail traffic, including industrial railways.

Inland waterways

Refers to water vessels navigating in inland waterways and coastal shipping. For example: small craft, barges, and those coastal ships which do not travel for international transportation.

Pipeline transport

Refers to transport of goods through pipelines.

Not elsewhere specified

Transport activities not included elsewhere.

Other sectors

Other sector covers commercial and public services, residential, agriculture, fishing and other final consumption not elsewhere classified.

Commercial and public services

These refer to business and offices in the public and private sectors. ISIC Divisions 01, 02, 03, 33, 36-39, 45-99, ISIC Class 8422.

Residential

Refers to all households including 'households with employed persons'. ISIC Divisions 97 and 98.

Agriculture

Refers to agriculture, hunting and forestry by ISIC as follows: ISIC Divisions 01 and 02.

Fishing

Refers to aquaculture and fisheries, covering the use of fishery resources from marine, brackish or freshwater environments, with the goal of capturing or gathering fish, crustaceans, molluscs and other marine organisms and products (e.g.,

aquatic plants, pearls, sponges, etc.) Also included are activities that are normally integrated in the process of production for own account (e.g., seeding oysters for pearl production). ISIC Division 03.

Not elsewhere specified

Report activities not included elsewhere, please specify. This category includes military use.

Non-energy use

Refers to use of energy products as raw materials in the different sectors; that is, not consumed as a fuel or transformed into another fuel. Example: in industry, coal used to make methanol or ammonia.

Non-energy use if further classified into the following:

Chemical (incl. the petrochemical sector)

Non-energy use of coal includes uses as feedstocks to produce fertiliser and as feedstocks for other petrochemical products.

Transport sector

Non-energy use in all transport sub sectors.

Other sector

Non-energy use in commercial and public services, residential, agriculture and not elsewhere specified.

C. Energy prices

Energy prices are in either local currency units or in US dollars.

Import prices

These are import prices based on cost, insurance and freight (CIF). These prices are obtained by dividing the value by the volume in foreign trade. Value and volume are recorded by customs administrations for each tariff position. Values recorded at the import stage include CIF but exclude import duties.

These are import prices of coal and coal products; crude oil, NGL and petroleum products; electricity and other products including biofuels and other renewable energy products.

The average local currency exchange rate to the US dollar and local currency unit are also required in this table.

Wholesale prices

These are the prices that a buyer pays for large volume purchases whether for own consumption or retail. Examples are prices paid by electricity distribution companies to electricity generators or suppliers.

Consumer prices

These are the prices paid by end-use consumers such as motorists purchasing fuels in filling stations, households electricity bills, coal briquette prices in supermarkets, etc. The prices may also be in local currency units or in US dollars.

Electricity prices are prices charged to the industrial, commercial, residential rates and rates to other consumers. Commercial sector includes government services and streetlights

D. Definition of columns and rows of the energy balance table

Unit

For presenting its energy balances, APEC has adopted kcal and Joules. 107 kcal or 41.868 gigajoules (GJ) is equivalent to one ton of oil equivalent (toe). This quantity of energy is, within a few percent, equal to the net heat content of one ton of crude oil.

Conversion (from original to TOE)

The EGEDA secretariat has adopted specific factors supplied by the member economies for each flow or use. The balances are expressed in term of 'net' heat value. The difference between the 'net' and 'gross' heat value for each fuel is the latent heat in condensation of the water vapor produced during combustion of the fuel. For coal and oil, net heat value is 5 percent less than gross, for most forms of natural and manufactured gas the difference is 9-

10 percent, while for electricity there is no difference. The use of net heat value is consistent with the practice of the Statistical Offices of the European Communities and the United Nations.

Layout

The energy balances are presented in tabular format: columns for the various sources of energy and rows for the different origins and uses.

Columns

Across the top of the table from left to right, there are thirteen columns with the following headings:

Column 1: Coal and peat include all primary coal, such as anthracite, coking

coal, other bituminous coal, sub-bituminous coal, lignite and peat.

Column 2: Coal and peat products include all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coal tar, coke oven gas, blast furnace gas, other recovered gases and peat products.

Column 3: Crude Oil & NGL comprise crude oil, refinery feedstocks and natural gas liquids. Natural LPG is included in LPG.

Columns 4 to 13: Petroleum products (column 4) comprise motor gasoline, naphtha, jet fuel, kerosene, gas/diesel oil, residual fuel oil, LPG, refinery gas and other petroleum products such as: aviation gasoline, ethane, white spirit, lubricants, bitumen, paraffin waxes and petroleum coke (columns 5 to 13). The definitions of these products are in Appendix A.

Column 14: Gas includes natural gas and LNG (excluding natural gas liquids).

Column 15: Hydro shows the energy content of the electricity produced in hydro power plants. Hydro output includes output from pumped storage plants.

Column 16: Nuclear shows the primary heat equivalent of the electricity produced by a nuclear power plant with an average thermal efficiency of 33 percent.

Column 17: Geothermal, solar, etc. shows the primary heat equivalent of the electricity produced in geothermal plants with an average thermal efficiency of 10 percent, and the energy content of electricity produced in non-thermal power plants such as photovoltaic, wind, tide wave etc.

Column 18: Others includes wood, wood waste, black liquor, industrial and municipal waste and biomass (power generation from other fuel sources such as defined in 'others' is included here).

Column 19: Electricity shows final consumption and trade in electricity (which is accounted at the same heat value as electricity in final consumption, i.e., 1 GWh = 0.0036 Petajoules (PJ)).

Column 20: Heat includes heat production from public combined heat and power plants (CHP), from autoproducer's heat that is sold to a third party (e.g., to a network).

Column 21: Total = the total of columns 1 to 11.

Column 22: Total renewables = the sum of hydro, geothermal, solar, wind, solid and liquid biofuels, and the renewable portions of industrial wastes and municipal solid wastes.

Rows

The categories on the left-hand side of the table have the following functions.

Row 1: Indigenous production shows only production of primary energy, i.e., hard coal, lignite, crude oil, NGL, natural gas, hydro and nuclear, geothermal, etc. electricity and others.

Row 2/3: Imports and exports comprise amounts having crossed the boundaries of the economy with or without customs clearance.

Row 4/5: International marine and aviation bunkers cover those quantities delivered to sea-going ships and international flights of all flags. Consumption by ships and planes engaged in transport in inland and coastal waters is not included.

Row 6: Stock changes are treated as follows: a decrease in stocks, shown in the table as a positive number, is added to supply and an increase in stocks, shown as a negative number, is deducted from supply. Producers', importers', energy

transformation industries' and large users' stocks are included.

Row 7: Total primary energy supply (TPES) is made up of indigenous production (row 1) + imports (row 2) – exports (row 3) – international marine and aviation bunkers (row 4/5) and $\pm$ stock changes (row 6).

Row 8: Transfers refer to interproduct transfers, product transferred, liquid products from gas separation and recycled products as defined in Appendix B.

Row 9: Total transformation sector is made up of main activity producer (row 10) + autoproducers (row 11) + gas processing (row 12) + petroleum refineries (row 13) + coal transformation (row 14) + other transformation (row 15).

Row 10: Main activity producer, column 1 to 9 show primary and secondary fuel input to public utilities' plants as negative entries. Gross electricity produced (including power stations' own consumption) appears as a positive quantity in column 11, 'electricity'. Transformation losses appear in the 'total', column 12, as a negative number.

Row 11: Autoproducers, columns 1 to 9 show primary and secondary fuel input to electricity generation of autoproducers as negative entries. An autoproducer is an establishment which, in addition to its main activities, generates electricity wholly or partially for its own use, such as industries, railways, refineries etc. Total gross electricity produced appears as a positive quantity in column 10, 'electricity'. Transformation losses appear in the 'total', column 12 as a negative number.

Row 12: Where there is a production of gas at gas-to-liquid facilities, the treatment is similar to that for electricity generation, with the quantity produced appearing as a positive figure in column 5 'gas', input as negative entries in column 1 (coal), 2 (coal products), 4 (petroleum products) and 5

(natural gas input) and conversion losses appearing in the 'total' column.

Row 13: The petroleum refineries row shows the transformation of crude oil, NGL and condensate to petroleum products.

Row 14: Coal transformation shows the transformation of coal from primary to secondary fuels and from secondary to tertiary fuels (hard coal to coke, coke to blast furnace gas, brown coal to BKB, etc.)

Row 15: Other transformation: contains the energy feedstocks and outputs of petrochemical industry, biofuel processing, charcoal processing and other transformation processes that are not classified elsewhere.

Row 16: Loss & own use: own use contains the primary and secondary energy consumed by transformation industries for heating, traction and lighting purposes. These are shown as negative figures. Included here are, for example, the coal mines' own use of energy, energy use in refineries, electricity plants' own consumption (which includes gross electricity consumed for pumped storage), and energy used for oil and gas extraction (which also includes consumption for the pipeline system). Loss includes losses in gas distribution, electricity transmission, and coal transport.

Row 17: Discrepancy is a category which includes the sum of the unexplained statistical differences for individual fuels.

Row 18: Total final consumption (TFC) is the sum of total final energy consumption (TFEC) in row 19 and non-energy use in row 36.

Row 19: Total final energy consumption (TFEC) is the sum of consumption by the different end-use sectors (row 20, 25, 31).

Row 20: Consumption of the industry sector (energy used for transport by

industry is not included here but reported under transport).

Row 21: Iron and steel covers ISIC Group 241 and Class 2431. Report pulverised coal injection (PCI) into blast furnaces under blast furnaces, Transformation sector. To avoid double counting, fuels used in blast furnaces should be reported in the transformation sector.

Row 22: Chemical & petrochemical refers to ISIC Division 20 and 21.

Includes manufacture of basic chemicals (ISIC 201)

Other chemical products (ISIC 202), Man-made fibers (ISIC 203)

Row 23: Non-metallic minerals covers ISIC Division 23, i.e.: Glass, ceramic, cement and other building materials industries.

Manufacture of glass and glass products (ISIC 231)

Non-metallic mineral products (ISIC 239) such as ceramics, tiles, baked clay products and cement

Row 24: Other industries cover consumption of all other manufacturing industries, mining, quarrying and constructions.

Row 25: The transport sector includes all fuels for transport, except international marine bunkers. It includes transport in the industry sector and covers road, railway, domestic air transport, inland waterways (including small craft, fishing vessels and coastal shipping not included under marine bunkers) and non-specified transport.

Row 26: Domestic air transport refers to domestic aircraft - commercial, private, agricultural, etc. include oil used for purposes other than flying, e.g., bench-testing of engines. Military use of aviation fuels also should be excluded here.

Row 27: Road covers transport by road vehicles. It includes agricultural highway use but excludes motor gasoline used in stationary engines (included in the other sector) and diesel oil for non-highway use in tractors (included in agriculture). Lubricants for use in road vehicles should be included here. Bitumen for use in road surfacing and gas oil used in engines at construction sites should not be included here but should be included in the industry subsector 'construction'.

Row 28: Rail refers to rail traffic, including industrial railways.

Row 29: Inland waterways refers to water vessels navigating in inland waterways and coastal shipping. Examples include small craft, barges, and those coastal ships which do not travel for international transportation.

Row 30: Non-specified transport covers pipeline transport and other transport activities not included elsewhere.

Row 31: Other sectors cover agriculture, residential, commercial and public services, and non-specified consumption.

Row 32: Refers to all households including 'households with employed persons.' ISIC Division 97 and 98.

Row 33: These refer to business and offices in the public and private sectors.

Row 34: Consumption of the agriculture sector.

Row 35: Other shows non-specified use which may include military use.

Row 36: Non-energy use covers use of coal, gas, and petroleum products such as white spirit, paraffin waxes, lubricants, bitumen, and other products. Petroleum coke is shown as non-energy use only when there is evidence of such use; otherwise, it is shown under energy use in

industry or other sectors. This covers all oil including naphtha, except the other petroleum products listed above, and gas used as petrochemical feedstock. Gas,

which is specifically used as raw material for chemical products such as methanol and ammonia/urea, is also included.

E Conversion factors

Coal

Coal has separate factors for production, imports, exports, inputs to power plants, coal used in coke ovens, and coal used in industry. Each economy's individual conversion factors are applied.

Crude oil

The conversion factors of each economy are applied as shown in the table of conversion factors.

Petroleum products

The conversion factors of each economy are applied.

Gas

To convert the gross heat content of a gas to its net heat content, the following multiplying factors were used:

Natural gas	0.9
Gas works gas	0.9
Coke oven gas	0.9
Blast furnace gas	1.0

Electricity

Figures for electricity production, trade, and final consumption are calculated using the energy content of the electricity, i.e., at a rate of 1 TWh = 3.6 PJ. Hydro-electricity production (excluding pumped storage) and electricity produced by other non-

thermal means (wind, tide, photovoltaic, etc.) are accounted for similarly using 1 TWh = 3.6 PJ. However, the primary energy value ascribed to nuclear power plants is calculated from the gross generation by assuming that only 33% of the primary energy content appears as electricity, i.e., 1 TWh = (3.6/0.33) PJ. In the case of electricity produced from geothermal heat the primary value is calculated using 1 TWh = (3.6/0.1) PJ.

Heat

Information on heat is supplied in net kilocalories.

$$10^{10} \text{ kilocalories} = 1 \text{ ktoe} = 0.041868 \text{ PJ}$$

Others

The conversion factors used for other energy, such as wood, wood waste, black liquor, etc. are those that are provided by each economy. In cases where the member economies cannot provide a conversion factor, the CA used the following net calorific values in kcal/kg.

Fuelwood and wood waste	3 702
Bagasse	1 959
Charcoal	6 898
Industrial waste	3 344
Municipal solid waste	3 344
Other biomass	2 986

Average net calorific values of energy products in 2023

	kJ/kg (kJ/m ³ for Natural Gas)																				
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam
Coal																					
Anthracite	26 700		26 381	29 650			30 525	27 246	20 304		27 060					29 000		28 240	31 400	30 945	21 695
Coking coal	28 500		24 986	28 638				28 015	28 010		28 765	28 611				28 500		27 882	27 630	28 374	
Other bituminous coal	25 700		27 226	21 436	22 513	26 370	20 096	23 606	23 697	26 394	25 875	28 414		29 308		25 342	25 800	23 685		26 933	
Sub-bituminous coal	18 478	22 666	17 897						19 887		20 348	19 669			22 098			19 528		19 155	
Lignite	9 800		14 019				18 751				11 186	17 274				14 918			13 720	13 837	
Peat							15 572									9 965					
Peat products																17 585					
Coal Products																					
Patent fuels									19 385												
Coke oven coke	27 000		27 457	28 517	28 469				28 889	26 377	28 105	29 500		28 200		29 015		27 842		28 865	
Coal tar	35 714			38 841	33 494			35 393	37 000		37 970										
BKB/PB (Coal briquettes)	21 951				17 796		21 803				18 000										
Gas works gas					41 868																
Coke oven gas					41 868																
Blast furnace gas					41 868																
Oxygen steel furnace gas					41 868																
Crude oil and NGL																					
Crude oil	43 282	45 000	42 790	43 203	41 868		43 199	41 973	42 203	43 333	43 509	42 694	42 370	42 747	41 471	42 077	42 705	41 966	42 257	42 827	42 676
Natural gas liquids	45 410	45 636	45 220	48 127				45 316		44 413	41 397	45 800	42 370	42 747	48 081	41 910			42 239	44 888	
Refinery feedstocks	43 282	45 339	42 500	44 799				42 500	47 164	42 538	42 350	43 884		43 767			42 833	41 966		43 538	
Additives/oxygenates		40 181		22 651					44 079		34 055							41 966			
Other hydrocarbons		19 900	41 868		41 868			23 687		42 119	41 868									51 004	
Petroleum products																					
Refinery gas	48 100		48 100	48 100	46 055		48 100	48 100	48 100	48 100	48 100	48 100		48 100			48 100	49 399		48 100	
Ethane	49 400		49 400								49 400								46 905	49 400	
LPG	47 700	46 151	47 300	47 300	50 242	41 868	46 865	47 700	47 700	45 544	47 300	47 700	47 698	47 300	45 049	46 000	47 300	48 962	49 225	47 300	45 636
Motor gasoline	44 600	44 749	44 800	44 800	43 124	41 868	43 746	44 600	44 600	43 961	44 800	44 600	44 606	44 800	44 255	44 000	44 800	41 868	42 490	44 800	43 932
Aviation gasoline	44 600		44 800	44 800			47 185	44 600	44 600		44 800	44 600			43 508					44 800	
Gasoline-type jet fuel																					
Kerosene-type jet fuel	44 500	44 581	44 600	44 600	43 124	41 868	45 049	44 500	44 500	43 199	44 600	44 500	44 517	44 600	41 687	43 000	44 600	39 626	43 015	44 600	43 095
Other kerosene	42 900	44 581	43 800	43 800	43 124	41 868	46 792	42 900	42 900	43 208		42 900	42 846	43 800	41 262		43 800	41 739	43 167	43 800	43 095
Gas/diesel oil	42 600	43 379	42 600	43 300	42 705	41 868	47 687	42 600	42 600	42 496	42 600	42 600	43 063	43 300	42 072	42 600	43 300	39 586	42 858	42 600	42 676
Fuel oil	42 600		40 200	40 200	41 868	41 868	47 321	42 600	42 600	41 500	40 200	42 600	44 047	40 200	41 111	40 000	40 200	40 449	42 309	40 200	41 422
Naphtha	43 200	45 340	45 000	45 000	38 418	41 868	45 000	43 200	43 200		45 000		43 967		46 183	44 000	45 000	43 944		45 000	
White spirit SBP			43 000		38 418			43 000	43 000			43 000				43 600	43 000	48 179		43 000	
Lubricants	42 900	41 801	42 000		38 418		42 000	42 900	42 900		42 000	42 900			41 914	42 000	42 000	43 048		42 000	42 258
Bitumen	38 800	40 001	40 000		38 418		39 000	38 800	38 800		40 000	38 800			38 718	39 000	39 000	38 430		40 000	41 840
Paraffin wax					38 418			40 000	40 000		40 000	40 000				40 000	40 000	44 691		40 000	
Petroleum coke	33 800		32 000	32 000	30 773			33 800	33 800		32 000	33 800		32 000		32 000	32 000	28 361		32 000	
Other products	40 000	46 151	40 000	40 000	38 979		40 000	40 000	40 000	42 496	40 000	40 000		40 000	41 299	40 000	40 000	41 494	42 309	40 000	41 449
Natural gas																					
Natural gas	35 916	35 144	35 423	35 198	37 260	40 659	37 199	36 662	37 543	39 249	32 431	36 101	38 372	32 750	34 456	34 556	34 200	33 494	36 098	35 111	37 681
New and renewables																					
Fuel wood and wood waste							14 059								13 777				15 990		
Bagasse															17 816				7 530		
Charcoal							30 414	29 300		28 889		29 600		27 214	25 105	30 800			28 880		30 800
Other biomass					29 308										17 690				12 653		
Industrial waste					20 515																
Municipal solid waste																			4 860		
Biogasoline	26 800		26 800		29 308			26 800				26 800		26 800	29 653			22 169		28 795	26 800
Biodiesel	36 800		36 800		29 308		44 154	36 800	41 956	36 800		39 860		36 800	39 421			35 169		42 620	
Other liquid biofuels									36 800											21 583	

Note: The Net Calorific Values are used to convert the unit of each product to thousand tonnes of oil equivalent (ktoe). 1 ktoe = 41.868 TJ
Some economies reported data in energy units (TJ, ktoe, mboe). Therefore, the calorific value were calculated.

F. Currency codes

AUD	Australian Dollar	Australia
BND	Brunei Dollar	Brunei Darussalam
CAD	Canadian Dollar	Canada
CLP	Chilean Peso	Chile
CNY	Yuan Renminbi	China
HKD	Hong Kong Dollar	Hong Kong, China
IDR	Rupiah	Indonesia
JPY	Yen	Japan
KRW	Won	Korea
MYR	Malaysian Ringgit	Malaysia
MXN	Mexican Peso	Mexico
NZD	New Zealand Dollar	New Zealand
PGK	Kina	Papua New Guinea
PEN	Nuevo Sol	Peru
PHP	Philippine Peso	The Philippines
RUB	Russian Ruble	Russia
SGD	Singapore Dollar	Singapore
TWD	New Taiwan Dollar	Chinese Taipei
THB	Baht	Thailand
USD	US Dollar	United States
VND	Dong	Viet Nam

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Energy Statistics 2023

APEC Energy Working Group
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EGEDA Secretariat:
Energy Statistics and Training Office
Asia Pacific Energy Research Centre

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