



Asia-Pacific
Economic Cooperation

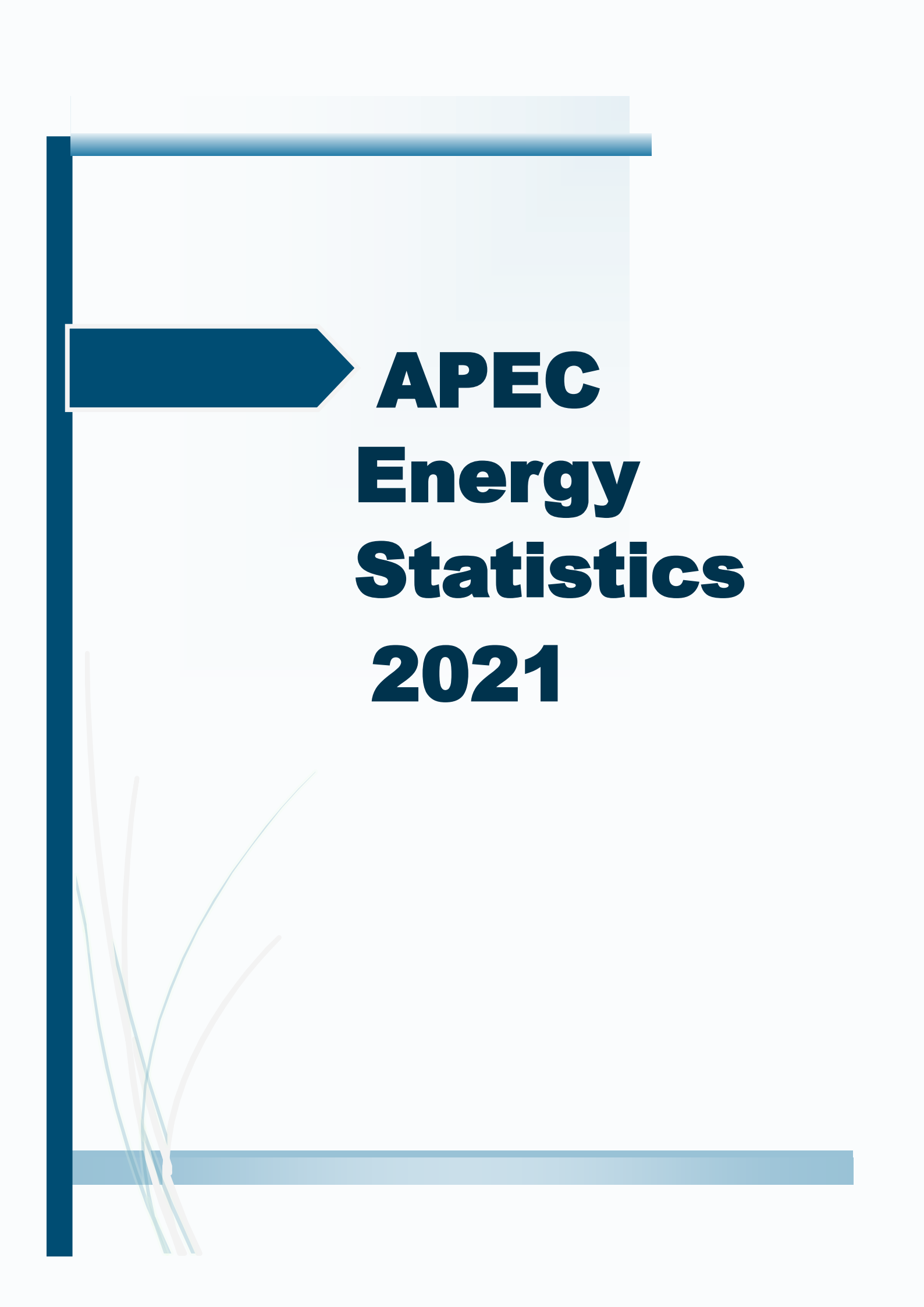
APEC

Energy Statistics 2021



APEC Energy Working Group
April 2024

ENERGY STATISTICS AND TRAINING OFFICE
ASIA PACIFIC ENERGY RESEARCH CENTRE

The cover features a light blue background with a dark blue vertical bar on the left. A dark blue arrow points right from the bar towards the title. The title is in a bold, dark blue sans-serif font. At the bottom left, there are several thin, curved lines in light blue and beige. A horizontal light blue bar is at the bottom.

APEC Energy Statistics 2021

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Preface

The APEC Energy Statistics 2021 consists of the following chapters:

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

The statistics cover 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 Republic of the Philippines; Russia; Singapore; Chinese Taipei; Thailand; The United States and Viet Nam.

Chapter 1 describes the methodology for collecting and standardising the energy data and for producing the secondary data such as the energy balances and other tables. The preparation of socio-economic data is also explained.

Chapter 2 provides an analysis of energy demand and supply in the APEC region and contains figures and tables showing trends of energy demand and supply.

Chapter 3 consists of annual tables of each member economy. The annual tables contain energy balance tables for 2021 and 2020 and energy prices from 2005 to 2020. The annual tables also include major energy indicators such as primary energy supply, final energy consumption, demand and supply by energy sources as well as major economic indicators such as population, GDP, balance of payments, foreign exchange rate, purchasing power parity, price indices and so on. These tables cover the data from 1990 to 2021. The objective is to report the most recently updated data.

APEC Energy Statistics 2021 is derived from the APEC energy database, the purpose of which is to establish a comprehensive and consistent energy database within the APEC region. This database will be used to assist in the identification of significant trends in energy supply and demand consistent with projects and priorities under the APEC Energy Working Group, which include final energy intensity and shares of renewable energy in total primary energy supply and total final energy consumption. It is prepared in close cooperation with member economies.

Inquiries about the data should be addressed to 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

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. The role of the secretariat was 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 description 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.

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.

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).

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.

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:

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	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 pellets/ briquettes
Blast furnace gas	Gas/diesel oil	Bagasse
Other recovered gases	Fuel oil	Rise husks
Patent fuel	LPG	Straw
Coal tar	Refinery gas	Charcoal
BKB/PB	Ethane	Other vegetal and agricul- tural wastes
Gas works gas	White spirit SBP	Other primary solid bio- mass
Peat	Lubricants	Biogases
Peat products	Bitumen	Industrial wastes
Oil shale and tar sands	Paraffin waxes	Municipal solid wastes
Crude Oil & NGL	Petroleum coke	Black liquor
Crude oil	Other petroleum products	Liquid biofuels
Natural gas liquids	Gas	Electricity
Refinery feedstocks	Natural gas	Heat ¹
Additives / oxygenates	LNG	
Other hydrocarbons	Nuclear	

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

Table 1.1b • Energy flows in the APEC energy database

Indigenous production Imports Exports International marine bunkers International aviation bunkers Stock changes Total primary energy supply Transfers <ul style="list-style-type: none"> Recycled products Inter-product transfers Products transferred Gas separation 	Total transformation sector Main activity producer <ul style="list-style-type: none"> Electricity plants CHP plants Heat plants District cooling plants Autoproducer <ul style="list-style-type: none"> Electricity plants CHP plants Heat plants District cooling plants Gas Processing <ul style="list-style-type: none"> Gas works Liquefaction Re-gasification Natural gas blending plants Gas-to-liquid plants Refineries Coal transformation <ul style="list-style-type: none"> Coke ovens Blast furnaces Patent fuel plants BKB/PB plants Liquefaction (coal to oil) Petrochemical industry Biofuel processing Charcoal processing Non-specified transformation Losses and own use <ul style="list-style-type: none"> Own use Transmission and distribution losses 	Total final energy consumption Industry sector <ul style="list-style-type: none"> Iron and steel Chemical including petrochemicals Non-ferrous metals Non-metallic minerals Transportation equipment Machinery Mining and quarrying Food, beverages and tobacco Pulp, paper and printing Wood and wood products Construction Textiles and leather Non-specified Industry Transport sector <ul style="list-style-type: none"> Domestic air transport Road Rail Inland waterways Pipeline transport Non-specified transport Other sector <ul style="list-style-type: none"> Commerce and public services Residential Agriculture Fishing Non-specified others Non-energy use <ul style="list-style-type: none"> Transformation sector Industry sector Transport sector Other sector
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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.

Collection schedule and actual dates of submission

ESTO set the deadline for submission of 2021 data on 31 March 2023. In principle, all 21 APEC members are expected to submit annual data by this deadline. Three economies were able to submit the five energy questionnaires on time. These were Brunei Darussalam; Singapore; 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 2023 with the submission of Hong Kong, China's final data.

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.

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 was not able to submit its annual energy questionnaires, ESTO estimated its energy data using various references. The references include the JODI Oil and JODI Gas data, renewable energy data from the International Renewable Energy Agency (IRENA), 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 2021, 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 2021, 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.

While Singapore submitted the questionnaires, Singapore 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.

Standardisation

The APEC reporting format used in the collection of 2021 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.

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%

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.

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.

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.

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.

Notes on member economies

General notes

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.

Specific notes

Papua New Guinea

ESTO estimated the energy balance tables of Papua New Guinea from 2004 to 2021. Data were taken from the crude oil and natural gas production, refinery intake and output data as well as crude oil exports that PNG submits monthly to Joint Organisations Data Initiative (JODI). Petroleum products imports data from the Customs Office were also used. Data on geothermal electricity production and biomass consumption, especially in the household sector, were obtained from IRENA's data.

Singapore

Singapore is not able to submit its complete energy supply and demand data. For the 2021 data, the Energy Market Authority (EMA) is only able to submit import and export data. Likewise, Singapore was not able to provide refinery inputs and outputs as in the previous year. Final energy consumption was also not provided. In this regard, ESTO used IEA's estimates of these energy flows to have a complete energy balance and have the same disaggregation to fit the format of the APEC energy balances.

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).

Chinese Taipei's GDP in PPP (constant 2017 USD) was estimated using the data from the International Monetary Fund, World Economic Outlook Database, April 2023.

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 the APEC Energy Situation

Background

The 2024 edition of the APEC Energy Statistics covers the energy demand and supply situation in APEC using 2021 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 gross domestic product (GDP in PPP 2017 USD), population 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 2021 and the RE share doubling from 2010 to 2021. 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 the previous publications, regional disaggregation follows the groupings used in the APEC Energy Demand and Supply Outlook. Unless otherwise specified, China; Russia; and the US, 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

◆ South-East Asia

Brunei Darussalam; Indonesia; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam

◆ Oceania

Australia; New Zealand; and Papua New Guinea

◆ Other North-East Asia

Hong Kong, China; Japan; Korea; and Chinese Taipei

◆ China

◆ Russia, and

◆ United States

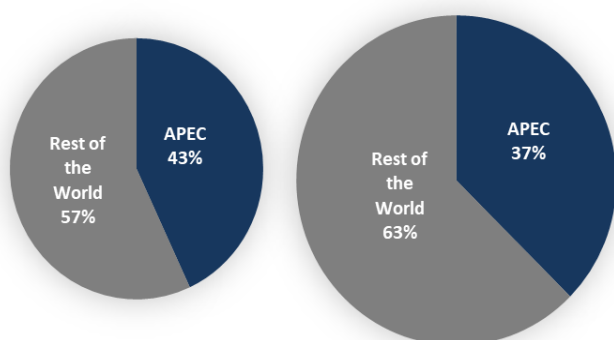


APEC and the rest of the world

The world's population continues to grow but the pace of growth is slowing. In 2021, the world population reached 7.8 billion people, a 0.9% increase from 2020 and the second succeeding year of slower growth (0.1 percentage point slower than the previous year). This represented a compound annual growth rate (CAGR) of 1.3% over the period 1990 to 2021.

APEC's population increased by 0.2% to 2.951 billion people in 2021 which was likewise much slower than the previous years. Between 1990 and 2021, APEC's population grew 0.8% annually. Its share of the world's population has similarly reduced by one percentage point to 37% in 2021. The rest of the world increased by 1.2% to 4.936 billion people in 2021 (Figure 2.1).

Figure 2.1 • World population, 1990 and 2021



Sources: World Bank, ESTO analysis

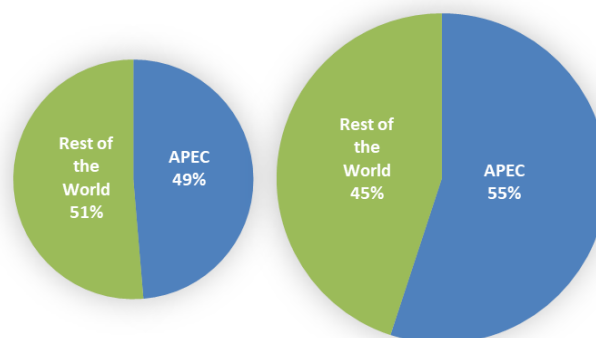
The increase in population in APEC was due largely to the growth of population in South-East Asia and other Americas, growing 0.8% and 0.7%, respectively, from 2020 to 2021. In contrast, other North-East Asia and Russia populations both dropped 0.4% in the same period.

Following the World Health Organization's declaration ending the coronavirus crisis as a "public health emergency of international concern" - its highest level of alert - which has been in place since 2020 (IISD, 2023), travel restrictions were relaxed and activities resumed in 2021. After

declining in 2020, the world's gross domestic product (GDP), measured in terms of purchasing power parities (PPP)¹ rebounded 6.3% to USD 134 535 billion (PPP constant 2017 USD). The rest of the world grew by 6.2% in 2021.

APEC's GDP was likewise seen to recover 6.1% to USD 74 051 billion (PPP constant 2017 USD) in 2021. This is equivalent to 3.6% CAGR between 1990 and 2021. Since 1996, APEC accounted for well over 50% of the world's GDP (Figure 2.2).

Figure 2.2 • World population, 1990 and 2021



Sources: World Bank, ESTO analysis

The top three regions were unchanged in terms of economic output in 2021, namely, China (34%); the United States [US (29%)] and other North-East Asia (12%). Together they accounted for three-quarters of APEC GDP (PPP constant 2017 USD) during the year. China drove the economic growth in APEC GDP (PPP constant 2017 USD), with a staggering 8.4% increase from 2020 to 2021.

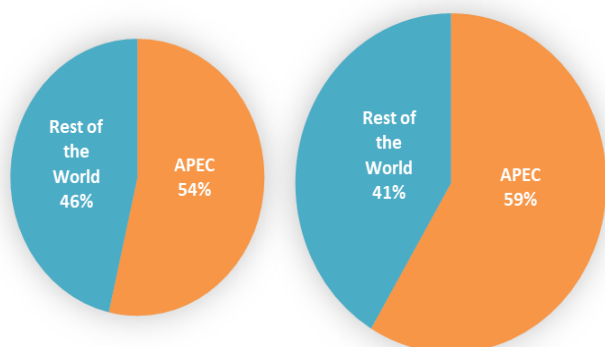
Accordingly, the global primary energy supply bounced back (5.4%) from 2020 to 2021 to meet the surging demand after the COVID-19 pandemic. APEC's total primary energy supply (TPES) grew 5.7% to reach 362 exajoules (EJ) in 2021, or equivalently 2.0% average increase annually between 1990 and 2021. TPES in the rest of the world (4.9%) likewise increased but not as much as APEC (Figure 2.3).

APEC dominated global TPES, accounting for more than 50% of the world's primary energy supply, historically (The region constituted the three largest energy-consuming economies, namely, China; the US; and Russia which made up three-

¹ PPPs convert different currencies to a common currency and, in the process of conversion, equalise their purchasing power by controlling for differences in price levels between economies. They provide a measure of what an economy's local currency can buy in another economy. PPP-based comparisons of economic output differ from market exchange rate-based comparisons as the latter do not distinguish between the relative price levels of different items in economies. PPP-based comparisons are also less impacted by the potential volatility of market exchange rates (World Bank, 2024).

quarters of the APEC TPES). While they likewise contributed largely to the increase in APEC TPES, Russia drove the growth with a huge 9.5% increase from 2020 to 2021.

Figure 2.3 • World TPES, 1990 and 2021



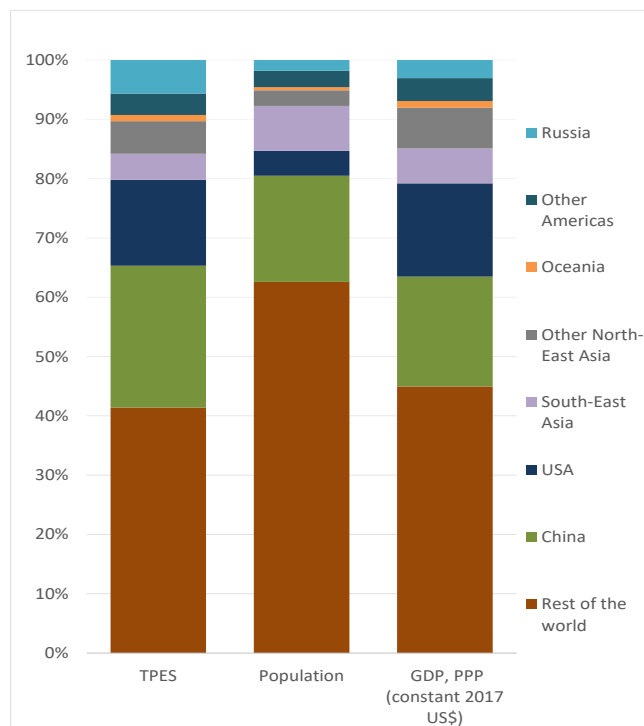
Sources: IEA and APEC (TPES), ESTO analysis

In terms of relative share, the combined TPES of APEC's three largest consuming economies (44%) was three percentage points bigger than the rest of the world's share (41%) of global TPES. The relative share of the combined GDP (PPP constant 2017 USD) of APEC's three largest contributors to the region's economic growth was also just three percentage points away from the rest of the world's 45% share of the world's GDP (PPP constant 2017 USD). Meanwhile, the relative share of APEC's three biggest populations was only half of the rest of the world's share (63%) of the world population (*Figure 2.4*).

Within APEC, the relative shares of the regions varied with each other although China constantly dominated in terms of TPES, GDP and population in 2021. For example, the relative share of the combined TPES of the US; Russia and other North-East Asia was only three percentage points more than China's 41% share of APEC TPES. China's GDP which also largely drove APEC's GDP in 2021, was relatively equal to the combined US and Russia's economic output. Finally, the combined population of APEC's five regions, namely, South-East Asia, the US, other North-

East Asia, other Americas and Oceania (47%) was relatively equal to China's share (48%) of the APEC population in 2021.

Figure 2.4 • Relative shares, APEC and the rest of the world, 2021



Sources: APEC, IEA, World Bank, WEO, ESTO analysis

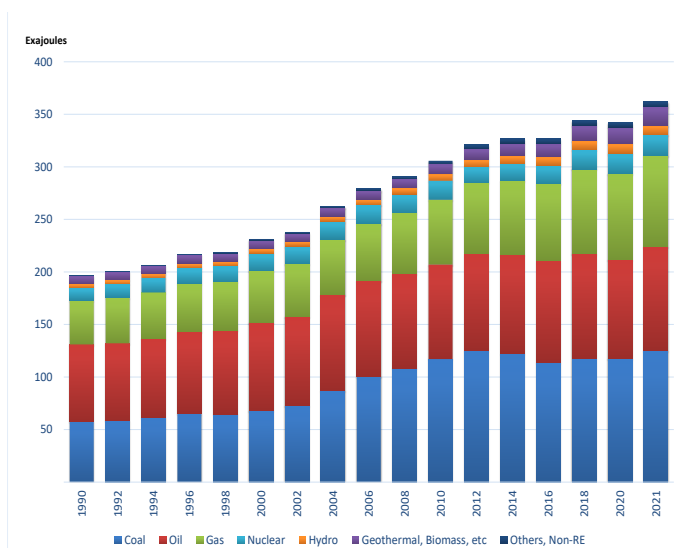
Discussion on key energy trends in APEC is found in the following sections. After restrictions were relaxed following the World Health Organization's declaration ending the coronavirus crisis as a "public health emergency of international concern", economic activity regained momentum. Consequently, increases in energy supply, consumption and production were seen in 2021.

Energy supply trends

Economic activity regained momentum and accordingly, energy supply is seen to recover in 2021.

After dropping from the previous year (2.3% in 2020) primarily attributed to the disruption caused by the COVID-19 pandemic, the total primary energy supply (TPES) in APEC grew 5.7% to 362 051 PJ in 2021 from 2020 (Figure 2.5). The compound annual growth rate (CAGR) between 1990 and 2021 climbed to 2%.

Figure 2.5 • Total primary energy supply, 1990-2021



Sources: APEC data, ESTO analysis

In contrast to this overall increase, Oceania witnessed a 2.2% decline in its total primary energy supply in 2021 from the 2020 level. All other regions within APEC saw an uptick. Russia and China notably marked the highest surges at 9.5% and 6.8%, respectively.

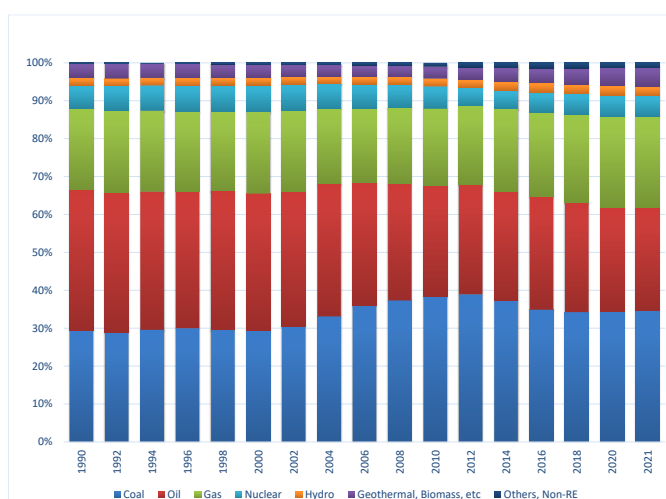
South-East Asia likewise saw a 2.9% rise from its 2020 level, reaching 27 023 PJ. Despite this increase, it remained well below its total primary energy supply in 2019, before the pandemic. Similarly, the TPES in the United States experienced a 5.1% increase from the 2020 level. However, it still fell short of its pre-pandemic level.

Primary energy mix by source

The dominance of fossil fuels in APEC's total primary energy supply (TPES) remains steadfast,

accounting for 86% of TPES or 310 908 PJ. (Figure 2.6). The CAGR of fossil fuels from 1990 to 2021 stood at 1.9%, slightly higher than the CAGR recorded between 1990 and 2020 (1.8%). Among these fuels, coal obtained the largest portion, constituting 35% of APEC's energy supply. Notably, 2021 saw a remarkable surge of 6.4%, marking the most substantial rise since 2011. Oil and gas maintained their positions as the second and third largest fuel sources in 2021, contributing 27% and 24%, respectively. Like coal, both oil and gas rebounded from the previous year's decline, experiencing robust increases of 5.3% and 5.4%, respectively in 2021 (Figure 2.6).

Figure 2.6 • Primary energy mix, 1990-2021



Sources: APEC data, ESTO analysis

In 2021, renewable energy sources maintained a modest share of APEC's total primary energy supply (TPES), comprising 7%. Notably, renewable energy sources comprising of geothermal, biomass, wind and solar altogether witnessed a significant increase of 12.6% compared to the 2020 level. In contrast, hydropower stood out as the only renewable energy source that experienced a decline, dropping by 1.6% in 2021.

Following a decline from the previous year, nuclear energy and all other energy sources similarly rebounded in 2021 showing increases of 3.4% and 2.7%, respectively.

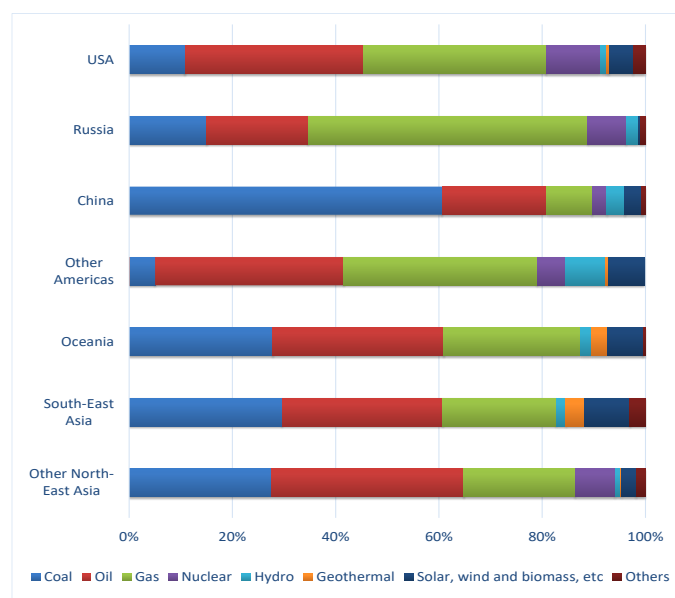
Primary energy mix by region

The structure of energy mixes by region in 2021 remained largely unchanged. China's share of APEC's total primary energy supply (TPES) in-

creased to 41%, further solidifying its dominance within the regions. Meanwhile, the US maintained its position, accounting for 25%—the same as the previous year—and continued to be the second-largest consuming region in APEC for 2021. In this year's assessment, other North-East Asia no longer shared the third spot with Russia. Instead, Russia accounted for 10%—the third largest—of APEC's TPES, whilst other North-East Asia's share remained consistent at 9%, mirroring its proportion in 2020 and became the fourth largest consuming region in APEC.

In 2021, as was the case in 2020, energy mixes across regions were primarily dominated by oil, apart from China and Russia. China's energy mix was predominantly coal-based, constituting a substantial 61% share, while Russia's energy mix continued to be dominated by gas, accounting for 55% (Figure 2.7).

Figure 2.7 • Primary energy mix by region, 2021



Sources: APEC data, ESTO analysis

Within APEC, China and the US consistently dominated the primary energy supply in terms of fuel type.. China accounted for 71% of APEC's total coal supply and 52% of the region's hydro-power supply. Meanwhile, the US accounted for 45% of nuclear supply, 35% gas and 32% oil supplies within APEC. It is worth noting that the US saw slight declines in its share of nuclear, gas, and oil supplies, despite maintaining significant contri-

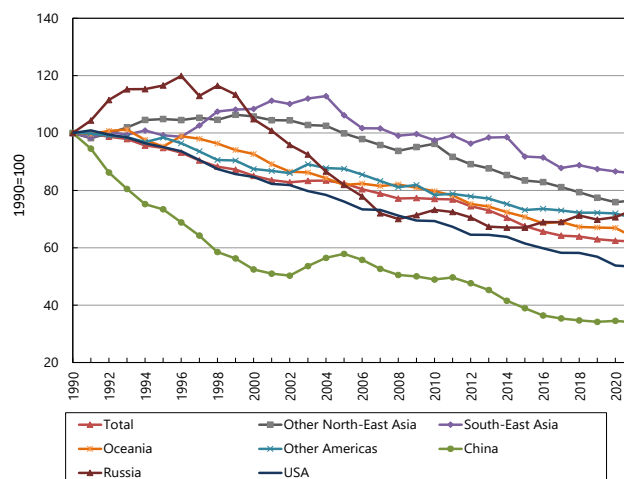
butions across these categories.

South-East Asia retained its position as the primary contributor to geothermal supply within APEC in 2021, maintaining an unaltered share of 53% compared to the 2020 level.

Primary energy intensity

Primary energy intensity is defined as the ratio of total primary energy (petajoules) and GDP (PPP constant 2017 USD). In 2021, primary energy intensity improved slightly compared with 2020. Following a 0.8% reduction in 2020, 2021 saw a 0.4 percentage point lower reduction, resulting in a ratio of 4.9 MJ/USD (PPP constant 2017 USD). The reduction is mostly attributed to the Oceania region, whereas Russia and other North-East Asia showed no improvement in primary energy intensity compared to 2020. Despite these fluctuations, over the years, the primary energy intensity of APEC has improved constantly, registering a 37.8% reduction from 1990 to 2021 (Figure 2.8).

Figure 2.8 • Primary energy intensity by region, 1990-2021



Sources: APEC data (TPES), World Bank (GDP), WEO (CT PPP), ESTO analysis

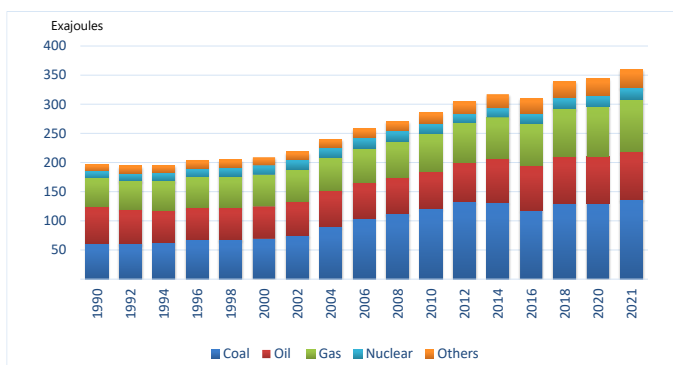
Production

After experiencing a decline in 2020 due to the impact of the COVID-19 pandemic, production rebounded in 2021, marking a 4.6% growth to reach 359 832 PJ (Figure 2.9). The growth was notably influenced by the rise in production of other fuel sources (6.7%) and coal (5.8%). Moreover, while oil production exhibited a 1.5% increase compared to the historic plunge in 2020, it has yet to reach its

pre-pandemic levels, signifying progress albeit not a complete recovery. Analysing production by region reveals a growth trend across all regions except for Oceania, which encountered its first decline of 5.6% since 2011. Notably, other North-East Asia and Russia emerged as the leading regions in production growth, recording 8.4% and 7% growth rates, respectively.

Self-sufficiency

Figure 2.9 • APEC production, 1990-2021

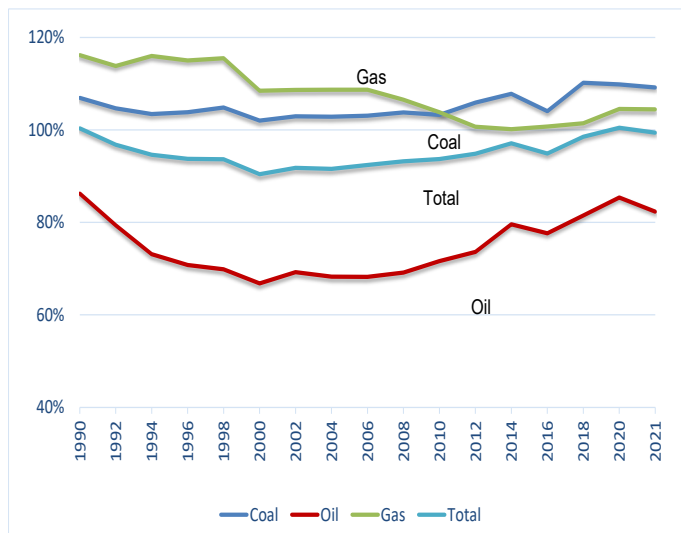


Sources: APEC data, ESTO analysis

Despite the overall production growth, APEC's self-sufficiency level (99%) in 2021 decreased by one percentage point compared to the previous year. APEC is more than self-sufficient in coal (109%) and gas (104%). On the other hand, oil remained below the sufficiency level (84%) in 2021 (Figure 2.10).

Net imports by region

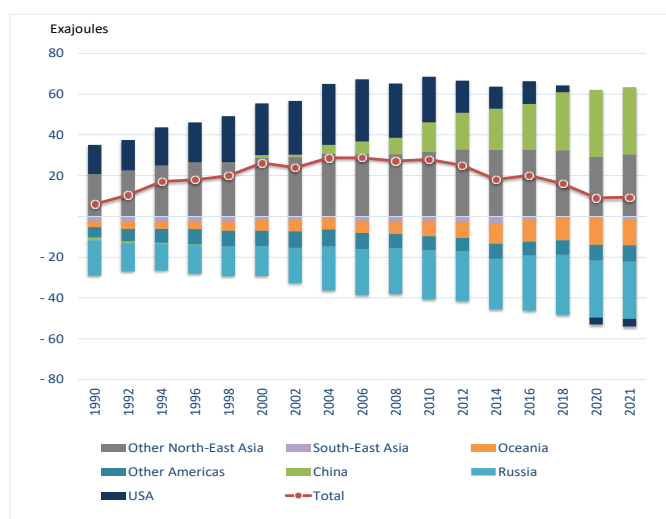
Figure 2.10 • APEC energy self-sufficiency, 1990-2021



Sources: APEC data, ESTO analysis

In 2021, APEC maintained its status as a net importer, with net imports (Imports – Exports) increasing by 3.6% compared to the previous year (Figure 2.11). The import-export structures in 2021 remained unchanged, with China and other North-East Asia acting as net importers, while the other regions functioned as net exporters. Notably, the US and South-East Asia sustained their positions as net exporters for the third consecutive year. Additionally, the CAGR between 1990 and 2021 stood at 1.4%.

Figure 2.11 • Net imports by region, 1990-2021



Sources: APEC data, ESTO analysis

Power generation

Renewables growth remained strong post-pandemic.

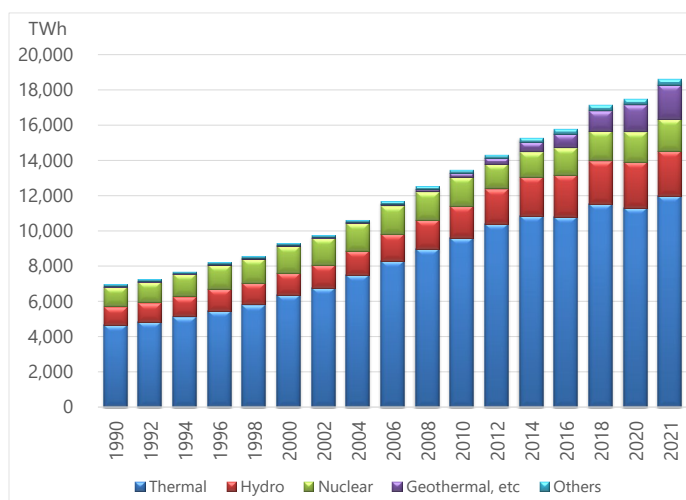
Power generation in APEC grew significantly by 6.4% to 18 604 TWh in 2021. The robust electricity generation from renewables (excluding hydro) and the increase in thermal power generation and all other sources contributed to the growth of total power generation in 2021 (Figure 2.12).

In 2021, as the world recovered from the pandemic, renewable energy sources (including geothermal, wind, solar, solid biomass, etc) maintained a steadfast growth, rising by 25.4% to reach 1 913 TWh. This notable increase may be attributed to the more than twofold surge in wind power generation by Russia. Additionally, South-East

Asia experienced a 43% growth in power generation from renewables (geothermal, etc) driven in part by a remarkable 4.5-fold increase in Brunei Darussalam's solar power generation, and in part by the 190% and 240% increases in Viet Nam's solar and wind power generation, respectively. Despite these advancements, power generation from hydro sources in APEC experienced a marginal decline of 1.3%. Altogether, the total renewables' share (including hydro) to the total electricity generation slightly improved from 24.5% in 2020 to 25.1% (4 665 TWh) in 2021.

Thermal electricity generation spiked 6.1% in 2021 after recovery from the effects of the pandemic (-2.0% in 2020). Coal and oil contributed

Figure 2.12 • Power generation by type, 1990-2021



Sources: APEC data, ESTO analysis

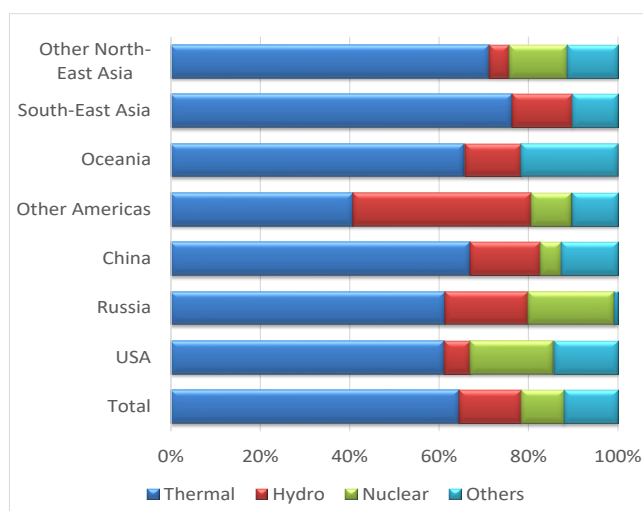
8.1% and 8.6%, respectively, to the total thermal power generation increase. The share of electricity output from thermal in 2021 was 65% which is the same as last year.

In 2021, all the regions in APEC had significant increases in electricity generation after gaining back the momentum after the pandemic. In particular, the top three regions were China, which rose 9.7%, followed by Russia and other Americas which improved 6.4% and 5.6%, respectively. This can be attributed to the strong electricity demand in these regions due largely to the rapid recovery from the impact of the pandemic.

The structure of power generation mixes by region in 2021 was unchanged. Except for other

Americas, electricity output from fossil fuels remained the bulk—over 60%—in most of the regions' respective power generation mixes. In other Americas, the electricity generation mix continued to be dominated by hydropower, accounting for 40% of the region's electricity generation (Figure 2.13).

Figure 2.13 • Power generation mix by region, 2021



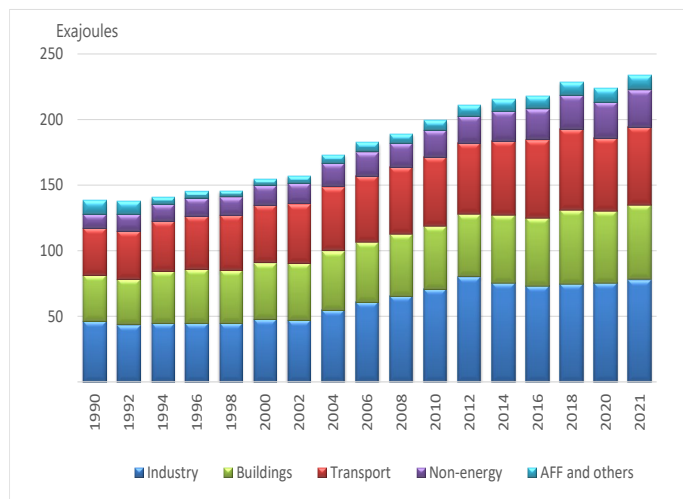
Sources: APEC data, ESTO analysis

Energy demand trends

Transport sector recorded historical surge owing to the back-to-normal situation after the pandemic.

Total final consumption in APEC [TFC (including non-energy use)] increased by 4.4% to 233 850 PJ in 2021. Non-energy use, which drove the final consumption in APEC in 2020, has continued its growth in 2021. Consumption rose 4.8% to 28 939 PJ, the second-highest growth among the consuming sectors in APEC in 2021. China, the US and other North-East Asia accounted for more than 75% of the growth in non-energy demand, increasing by 487 PJ, 467 PJ and 223 PJ, respectively, in 2021. The compound annual growth rate (CAGR) of TFC between 1990-2021 was 1.7%, a rate slightly higher than the CAGR recorded in the previous year (Figure 2.14).

Figure 2.14 • Total final consumption by sector, 1990-2021



Sources: APEC data, ESTO analysis

Total final energy consumption by sector

After experiencing a historic drop in 2020, APEC's total final energy consumption [TFEC (excluding non-energy)] recovered, rising 4.4% to almost 205 exajoules (EJ) in 2021, albeit the rebound was just 0.3% more than the volume of TFEC in 2019.

Given that travel restrictions were relaxed after the pandemic, the transport sector posted the biggest growth among the sectors, with a 7.3% rise in energy consumption to 59 366 PJ in 2021. Accordingly, there were substantial increases in energy consumption by mode of transport within the sector. Specifically, demand for domestic aviation and domestic navigation marked a 16.2% and 11% surge respectively, in 2021. Albeit the increases in energy demand for domestic aviation, rail and road in 2021, they still fell short of the 2019 post-pandemic levels by 18.4%, 5.3% and 4.5% respectively.

The energy consumption of the buildings sector (services and residential sectors combined) in APEC slightly improved by 2.8% to 56 618 PJ in 2021.

Energy consumption in the service sector is gradually recovering and increased 4% in 2021. This was still well below 2% of the 2019 level but exceeded the increase in household energy consumption in 2021. Since 2020, the workforce's place of activity that shifted from offices to residential due to the work-from-home/teleworking

scheme imposed during the Great Lockdown continued in selected economies. This has led to a further increase in household energy consumption by 1.8 percentage points more in 2021 from the 2020 level. Electricity continued to be the primary fuel source of both sectors in 2021, however, comparing the consumption level relative to 2019, 2021 seen a mere 0.3% increase in the services sector and a notable 8% increase in the household sector.

The industry sector, which was the least affected by the pandemic in 2020, grew 3.5% in 2021. This can be attributed to the significant increases –despite the minimal shares to the total manufacturing consumption–posted by transportation equipment and wood and wood products industries.

The energy consumption of the agriculture/fishing sector likewise bounced back by 2.7% in 2021.

Total final energy consumption by region

Accordingly, energy consumption in all regions of APEC regained back in 2021. The top three regions with large increases; were Russia; the US; and China, their respective energy consumption went up by 7.5%, 5.4% and 4.7%, respectively. Energy consumption in the transport sector, which took the biggest hit by the pandemic in 2020, rose steeply in these regions. The US especially posted a record high 10.6% rise to over 25 exajoules, the largest increase among the APEC regions. On the other hand, Oceania's energy consumed for transport (-2%) dropped for the second consecutive year in 2021. This may be attributed to the 3.2% drop on Australia's energy consumption (constituting more than 80% of Oceania) in the transport sector in 2021 (Figure 2.15).

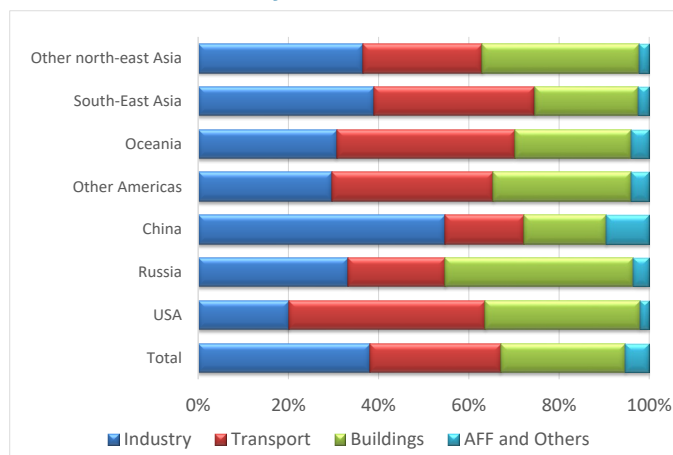
China continued to dominate the energy consumption in the industry sector with over 50% of the APEC industry energy consumption.

Albeit minimal, increases in energy consumption were likewise seen in the rest of the regions, post pandemic.

Final energy consumption by energy source

Notably, heat, constituting only 6.1% of the total final energy consumption, drove the overall in-

Figure 2.15 • Total final energy consumption, by region by sector, 2021

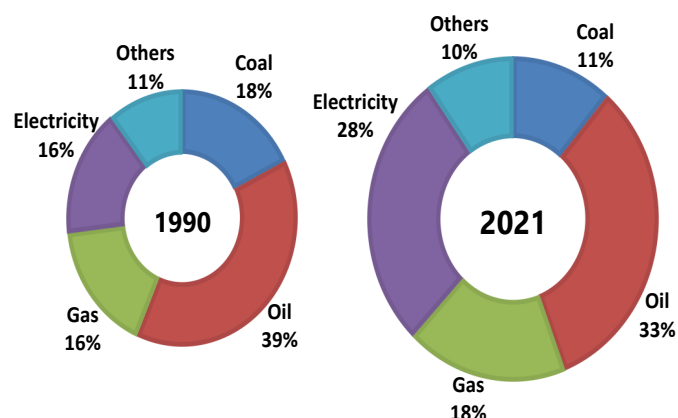


Sources: APEC data, ESTO analysis

crease in APEC energy consumption, recording a substantial growth of 13.9% in 2021. While heat is primarily used for industrial processes and in part for space and water heating in buildings, the high demand in the industry sector has pushed the heat consumption up.

Among fuel sources, oil accounted for one-third of the total final energy consumption (33%), and more than three-quarters of which (77%) was used for transport in 2021. While oil consumption grew significantly (6.2%) in 2021, it fell short (-4.6%) of the 2019 level (Figure 2.16).

Figure 2.16 • Total final energy consumption by source, 1990 and 2021



Sources: APEC data, ESTO analysis

It has been observed that the impact of the pandemic on electricity is minimal. Despite reduced demand during the pandemic, electricity consumption managed to register growth in 2020 and continued to increase (6%) in 2021. Electrici-

ty accounted for 28% of the final energy consumption, and due to its convenient nature, provides mostly the energy needs of the consumers.

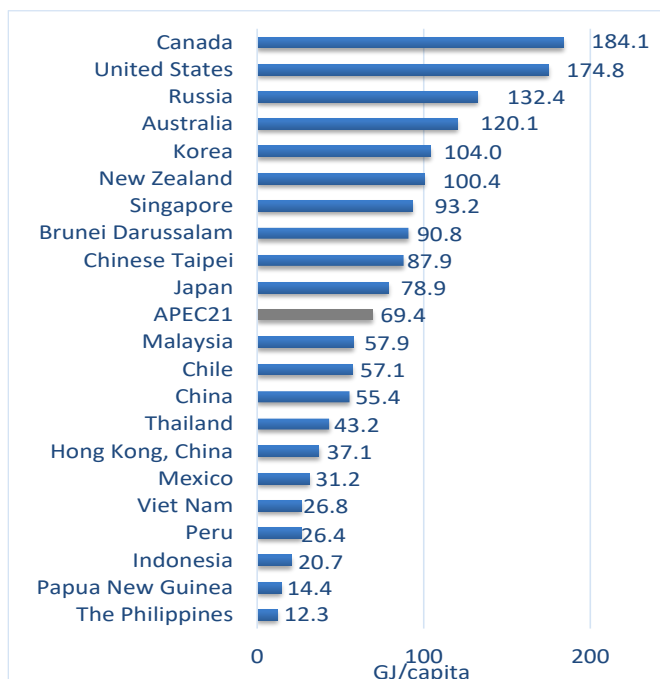
Gas slightly increased by 3% in 2021 as demand for industrial and commercial uses started to pick-up again in the middle of the pandemic.

After the significant decline in 2020, renewables (3% of final energy consumption) slightly grew by 1.8% in 2021. The increase, however, was 5.8% short of the 2019 level. This can be attributed to the slower-than-expected demand for renewables both for industrial activity and transport use (biofuel) after the pandemic.

Final energy consumption per capita

Energy per capita in APEC increased 4.1% to 69.43 GJ in 2021. However, the level was not even on par with the all-time high energy per capita level in 2018 (69.77 GJ). Canada (184.11 GJ); the US (174.76 GJ); and Russia (132.39 GJ) were the top three energy users in 2021. Eleven economies were well below the APEC average energy per capita, including China (in the 14th place with 55.39 GJ) (Figure 2.17).

Figure 2.17 • Energy consumption per capita, 2021

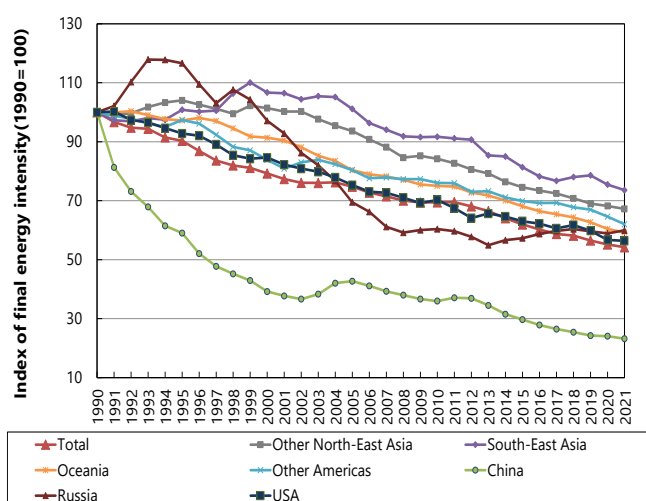


Sources: APEC data, World Bank, ESTO analysis

Final energy intensity

Final energy intensity [Total final energy consumption (PJ)/GDP (PPP, constant 2017 USD)] in APEC continued to show improvement over the last two decades. Between 1990 and 2021, energy intensity reduced by 45.8% to 2.8 MJ/USD (PPP, constant 2017) (*Figure 2.18*). (**Note: this is not the APEC energy intensity goal with 2005 as the base year.**)

Figure 2.18 • Final energy intensity by region, 1990-2021



Sources: APEC data, World Bank, WEO, ESTO analysis

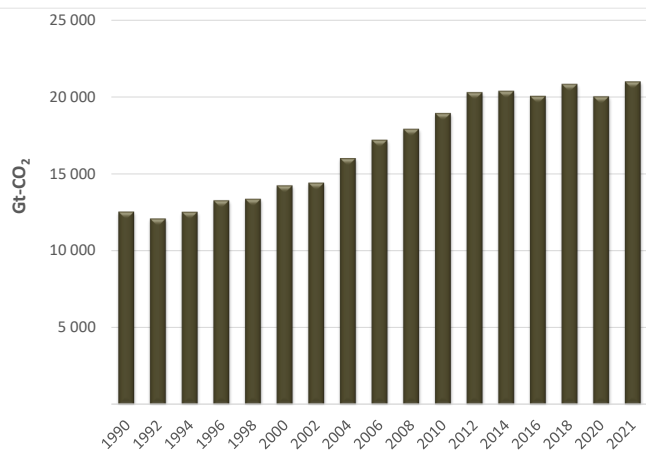
CO₂ emissions

The rebound in energy consumption in 2021 reversed the reduction in CO₂ that resulted from the COVID-19 pandemic in 2020.

The economic activity slowly returned to *normal* and hence the rise in final energy consumption ramped up CO₂ emissions by 4.8% to reach a historic high of 21 015 Gt-CO₂ in 2021 (*Figure 2.19*).

The relaxation of travel restrictions has seen a rebound in transportation consumption that largely drove the growth of CO₂ emissions in APEC. The surge of CO₂ emissions in 2021 was due in part to the growth of CO₂ emissions in the three large energy-consuming regions in APEC, namely the US (7.0%); Russia (5.3%); and China (5.2%).

Figure 2.19 • CO₂ Emission in the APEC region, 1990-2021



Sources: APEC data, ESTO analysis

APEC goals

If the current trends continue, the APEC goals will likely be met.

Energy intensity goal

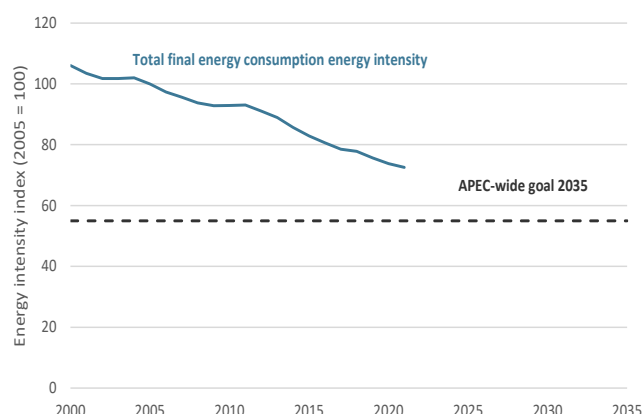
The APEC region made progress toward its goal of improving energy intensity by 45% by 2035 (relative to 2005) over the period 2005 to 2021. Albeit the rebound of energy consumption in APEC in 2021, energy intensity fell 27.5% between 2005 and 2021. In 2021, GDP rose more quickly than final energy consumption (+6.1% versus +4.3%); so final energy intensity declined 1.7%. Given the intensity improvement from 2005 to 2021, the APEC-wide energy intensity will only be less than 20% to meet the 2035 goal (*Figure 2.20*).

Assuming these trends on final energy consumption and GDP continue, the APEC goal of 45% energy intensity reduction will be achieved by 2032.

RE doubling goal

Progress has also been made in doubling the share of modern renewables in the energy mix by 2030 (relative to 2010). With just 56% of the time to the goal, the modern renewable share of final energy consumption increased by 65% in 2021 or equivalently from its 2010 share of 6% to 9.9% in

Figure 2.20 • Progress on APEC energy intensity goal, 2005-2021



Sources : APEC data, World bank, WEO, APERC analysis

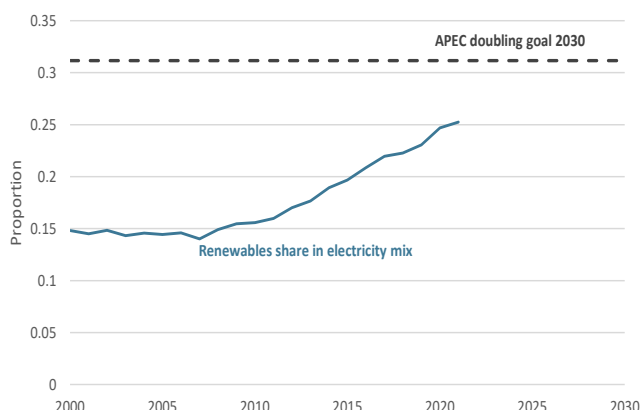
2021. Given this growth of renewables utilisation, the APEC RE share doubling goal in the final energy demand is expected to be achieved in 2030.

In terms of total primary energy supply (TPES), RE share increased from 4.77% in 2010 to 7.46% in 2021. Like in TFEC, with only 30% of the time to 2030, RE share to TPES will likely meet the goal to double from the 2010 level.

The share of renewables in power generation in APEC has likewise been increasing. In 2021, electricity output from renewable energy was well over 25% or equivalent to a rise of more than 60% compared with 2010 (*Figure 2.21*).

Given the increasing utilisation of renewable energy with just 70% of the time to the goal, the doubling goal share to final energy consumption, TPES and power generation will likely be met by 2030.

Progress on RE doubling goal (Power generation mix), 2010-2021



Sources : APEC data, APERC analysis

Energy balance table

New energy products and technologies will hopefully be included in the Energy balance table in the future.

This section presents the 2021 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 maybe included in the EBT.

Table 2.1 • APEC Energy balance table (PJ), 2021

	Coal	Coal products	Peat	Peat products	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	136 673		10		76 656		72 185	16 603	8 002	1 581	633	2	1 587	9 003	4 707		2	359 832	29 927
2 Import	19 542	453			55 376	21 589	15 324							95	176	442		121 094	271
3 Export	-29 335	- 423	- 1		-24 515	-25 218	-15 941							- 71	- 164	- 445		-111 679	- 235
4 International marine bunkers						-4 411									- 5			-4 127	- 5
5 International aviation bunkers						-3 286												-2 112	
6 Stock change	-1 827	- 56	1		- 653	- 182	- 788							1	22			- 958	23
7 Total primary energy supply	125 053	- 25	10		106 865	-11 507	70 780	16 603	8 002	1 581	633	2	1 587	9 028	4 735	- 3	2	362 051	29 981
8 Transfers					-4 247	1 036												-5 180	
9 Main activity producer	-73 095	-1 676	- 6		- 211	-1 931	-25 875	-16 603	-7 805	-1 532	- 305	- 2	-1 542	-1 620	-1 419	60 267	9 716	-71 921	-16 592
10 Autoproducer	-1 318	- 410	- 3		- 25	- 929	-4 589		- 197	- 18	- 186		- 45	- 643	- 387	2 514	1 925	-4 158	-1 321
11 Gas processing	- 899	- 4				- 15	- 45											- 348	
12 Petroleum refineries					-101 867	103 311												2 664	
13 Coal transformation	-23 580	13 340	- 1	1		- 20									- 5			-10 023	
14 Other transformation					999	- 436	- 669							- 205		- 15	17	- 589	- 205
15 Losses & own-use	-1 204	- 722			- 541	-5 432	-7 135							- 29	- 9	-9 614	-2 253	-27 993	- 32
16 Discrepancy	-2 687	- 778			- 397	789	- 431							12	- 66	- 149	- 67	-7 025	- 64
17 Total final consumption	17 208	9 725		1	577	84 864	32 036			31	141			5 924	2 999	57 184	11 270	233 850	8 791
18 Total final energy consumption	14 097	8 935		1	113	68 551	29 022			31	141			5 924	2 999	57 184	11 270	204 910	8 791
19 Industry sector	11 325	8 725			110	6 196	11 846			5	1			3 023	391	26 484	6 219	78 084	3 130
20 Transport sector	64	1				52 496	3 045								2 519	1 131		62 485	2 519
21 Other sector	2 745	210		1	3	9 858	14 131			25	141			2 901	126	29 481	5 051	67 460	3 179
21.1 Residential & commercial	1 839	190		1		5 548	13 811			23	137			2 577	88	25 077	4 709	56 618	2 826
21.2 Agriculture	406	14				2 349	149			2				286	10	1 085	128	4 313	296
21.3 Other	499	6			2	1 962	171				3			38	29	3 320	214	6 529	56
22 Non-energy	3 111	790			464	16 314	3 014											28 939	

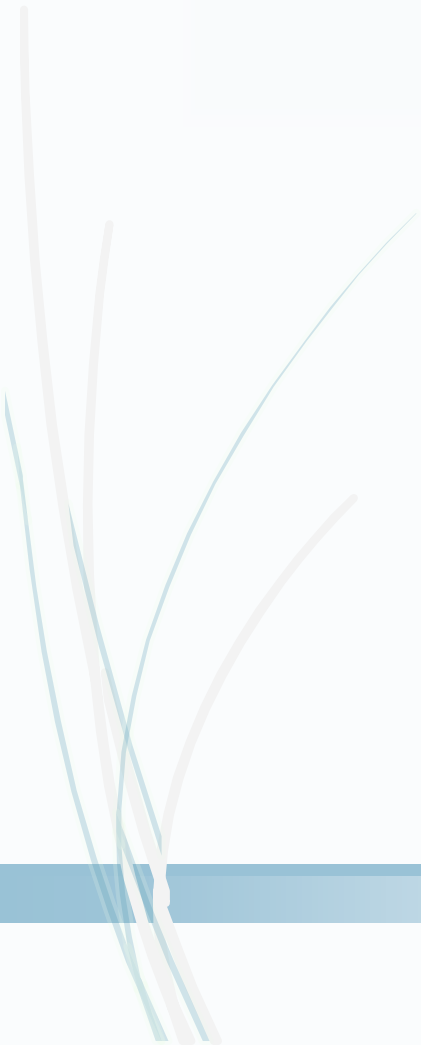


3

Energy Balances and Other Tables by Member Economy



Australia



Energy balance table of Australia

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																							2021
Production	11 468		785											5 140	53		208	201		17 855	458		Production
Import	3.9	8.6	492	1 275	252		94	0.2	816	13	16		83	187						1 966			Import
Export	-9 847	- 19	- 564	- 149	-0.4				-1.0	- 17	- 122		-8.8	-3 817						-14 395			Export
International marine bunkers				- 17					-1.8	- 15										- 17			International marine bunkers
International aviation bunkers				- 53			- 53													- 53			International aviation bunkers
Stock changes	70		17	-8.0	-4.7		0.8		-1.7	-0.2	-0.3		-1.9	19						98			Stock changes
Total primary energy supply	1 694	- 10	730	1 047	247		42	0.2	812	- 20	- 107		73	1 530	53		208	201		5 453	458		Total primary energy supply
Transfers			- 91	220							140		80							129			Transfers
Total transformation sector	-1 584	65	- 775	712	286		30		221	17	24	30	104	- 471	- 53		- 188	- 43	954	-1 383	- 285		Total transformation sector
Main activity producers	-1 467			-84					-6.5	-1.0			-0.9	- 279	- 53		- 121	- 19	797	-1 152	- 194		Main activity producers
Autoproducers				- 36					- 35	-0.6			-0.9	- 192			- 67	- 24	158	- 161	- 91		Autoproducers
Gas processing																							Gas processing
Petroleum refineries			- 775	757	286		30		262	19	24	30	106							- 18			Petroleum refineries
Coal transformation	- 117	65																		- 52			Coal transformation
Other transformation																							Other transformation
Losses & own use		- 35	-1.3	- 181				-0.1	- 126	-1.4	-0.3	- 30	- 22	- 389					- 175	- 781			Losses & own use
Discrepancy	- 17		137	- 88	- 11	0.1	-5.6	0.3	- 14	13	- 17		- 54	- 143						- 111			Discrepancy
Total final consumption	94	20		1 710	521	0.1	66	0.3	893	9.3	40		180	527			20	157	779	3 307	173		Total final consumption
Total final energy consumption	94	20		1 541	521		66	0.2	893	9.3	33		17	474			20	157	779	3 084	173		Total final energy consumption
Industry sector	93	20		188	0.5			0.2	159	3.2	7.9		17	266				106	283	956	102		Industry sector
Iron and steel	0.2	11		0.9					0.5	0.1			0.2	9.0					12	33			Iron and steel
Chemical & petrochemical	4.8	0.6		5.0				0.1	4.7	0.2				38				4.0	13	66	0.4		Chemical & petrochemical
Non-metallic minerals	15	0.1		6.8					0.9	0.5	3.8		1.5	44				2.7	11	80	2.7		Non-metallic minerals
Other industries	73	8.3		175	0.5			0.1	153	2.4	4.0		16	175				99	247	778	99		Other industries
Transport sector				1 205	514		66		612	6.1	7.1			18				3.7	23	1 250	3.7		Transport sector
Domestic air transport				68	2.0		66													68			Domestic air transport
Road				1 050	500				544		6.9			2.3				3.7	0.2	1 056	3.7		Road
Rail				49					49											61			Rail
Inland waterways				29	12				11	6.1										29			Inland waterways
Other transport				8.6	0.2				8.2		0.2			16					11	35			Other transport
Other sector	0.2			148	7.2				122		18			191				48	473	878	67		Other sector
Residential				15							15			149				19	47	466	66		Residential
Commerce and public services	0.2			28					28		0.5			40			0.4	1.0	229	299	1.4		Commerce and public services
Agriculture				103	7.2				93		2.7			1.1					7.5	112			Agriculture
Non-specified others				1.3					1.2											1.3			Non-specified others
Non-energy				169		0.1		0.2			6.2		163	53						222			Non-energy
2020																							2020
Production	12 335		875											5 329	53		168	198		18 958	415		Production
Import	8.0	11	631	1 276	193		171	0.2	789	26	19		79	162						2 088			Import
Export	-10 483	- 22	- 595	- 165	-3.3		-5.5		-3.0	- 11	- 134		-8.3	-3 905						-15 169			Export
International marine bunkers				- 29					-4.3	- 24										- 29			International marine bunkers
International aviation bunkers				- 162			- 162													- 162			International aviation bunkers
Stock changes	- 67		-0.2	26	5.0		7.9		7.0	4.1	-0.5		2.3	- 29						- 70			Stock changes
Total primary energy supply	1 793	- 11	911	946	194		11	0.2	789	-5.8	- 115		73	1 557	53		168	198		5 615	415		Total primary energy supply
Transfers			- 97	234							154		80							137			Transfers
Total transformation sector	-1 633	65	- 930	878	319		104		260	30	25	34	106	- 529	- 53		- 149	- 45	953	-1 443	- 247		Total transformation sector
Main activity producers	-1 515			-83					-5.9	-0.9			-1.4	- 327	- 53		- 98	- 19	810	-1 210	- 170		Main activity producers
Autoproducers				- 35					- 33	-0.7			-0.8	- 202			- 52	- 26	143	- 171	- 77		Autoproducers
Gas processing																							Gas processing
Petroleum refineries			- 930	921	319		104		299	32	25	34	108							-9.3			Petroleum refineries
Coal transformation	- 118	65																		- 52			Coal transformation
Other transformation																							Other transformation
Losses & own use		- 35	-1.5	- 187				-0.1	- 129	-2.8	-0.2	- 34	- 20	- 397					- 173	- 793			Losses & own use
Discrepancy	- 69		118	- 154	9.0	0.1	- 17	0.2	- 56	- 13	- 22		- 55	- 115						- 220			Discrepancy
Total final consumption	92	20		1 717	523	0.1	97	0.3	863	8.6	42		183	516			18	153	780	3 296	168		Total final consumption
Total final energy consumption	92	20		1 544	523		97	0.1	863	8.6	35		16	467			18	153	780	3 074	168		Total final energy consumption
Industry sector	91	20		181	0.5			0.1	153	3.2	7.6		16	258				101	280	930	97		Industry sector
Iron and steel	0.1	11		0.9					0.5	0.1			0.2	8.7					12	32			Iron and steel
Chemical & petrochemical	5.1	0.6		4.8				0.1	4.5	0.2				36				4.0	14	65	0.4		Chemical & petrochemical
Non-metallic minerals	17	0.1		6.8					1.0	0.5	3.8		1.5	43				2.7	11	80	2.7		Non-metallic minerals
Other industries	69	8.8		168	0.5			0.1	147	2.3	3.7		15	169				94	243	753	94		Other industries
Transport sector				1 245	517		97		615	5.4	10			19				4.4	23	1 292	4.4		Transport sector
Domestic air transport				99			97													99			Domestic air transport
Road				1 062	504				548		10			2.9				4.4	0.1	1 069	4.4		Road
Rail				47					47											59			Rail
Inland waterways				30	11				13	5.4										30			Inland waterways
Other transport				7.3	0.3				6.7		0.2			16					11	35			Other transport
Other sector	0.8			118	5.3				95		17			190				48	477	852	66		Other sector
Residential				15							15			150				18	47	457	65		Residential
Commerce and public services	0.8			27					27		0.5			39			0.4	0.5	243	311	0.9		Commerce and public services
Agriculture				74	5.2				67		2.0			1.1					7.3	83			Agriculture
Non-specified others				1.3					1.3											1.3			Non-specified others
Non-energy				174		0.1		0.2			6.5		167	49						223			Non-energy

Major energy indicators of Australia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules	
Total																									Total	
Primary energy supply	3 606	3 873	4 526	4 427	4 473	4 637	4 717	4 751	4 938	5 073	5 265	5 272	5 285	5 316	5 258	5 333	5 301	5 297	5 284	5 482	5 521	5 617	5 615	5 453	Primary energy supply	
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	16 971	17 553	18 656	18 958	17 855	Production	
Import	603	873	1 105	1 148	1 178	1 177	1 302	1 377	1 495	1 657	1 669	1 669	1 754	1 901	2 049	2 054	2 039	2 002	2 040	2 090	2 216	2 088	1 966	1 966	Import	
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	-13 366	-13 929	-14 944	-15 169	-14 395	Export	
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	3 161	3 209	3 180	3 074	3 084	Final energy consumption	
Industry	809	882	996	1 022	975	975	942	933	942	955	970	947	946	947	937	996	989	947	937	950	940	930	956	956	Industry	
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	1 250	Transport	
Residential	314	348	379	386	399	399	396	389	393	408	411	425	429	439	438	439	432	429	428	437	433	440	457	466	Residential	
Commerce & public services	146	174	211	211	236	255	261	261	265	278	282	291	292	296	297	306	312	339	323	321	326	320	311	299	Commerce & public services	
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	Others	
Coal																									Coal	
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	Primary energy supply	
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	Production	
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	Import	
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	Export	
Transformation sector	-1 391	-1 535	-1 868	-1 922	-1 955	-1 919	-2 007	-2 042	-2 078	-2 097	-2 074	-2 121	-2 126	-2 037	-1 999	-1 865	-1 760	-1 819	-1 880	-1 850	-1 770	-1 721	-1 633	-1 584	Transformation sector	
Power generation	-1 206	-1 354	-1 722	-1 790	-1 825	-1 771	-1 854	-1 885	-1 923	-1 941	-1 918	-2 002	-1 959	-1 868	-1 855	-1 733	-1 639	-1 704	-1 753	-1 723	-1 647	-1 609	-1 515	-1 467	Power generation	
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	Final energy consumption	
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	Industry	
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										Transport	
Residential	0.3	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													Residential	
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	Commerce & public services	
Others																									Others	
Coal products																									Coal 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	Primary energy supply	
Production																									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	12	11	8.6	Import
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	Export	
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	Transformation sector	
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	-4.7	-0.5	-0.2					Power generation	
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	Final energy consumption	
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	Industry	
Transport																									Transport	
Residential	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1															Residential	
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													Commerce & public services	
Others																									Others	
Crude oil & NGL																									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	Primary energy supply	
Production	1 215	1 188	1 420	1 466	1 380	1 347	1 195	1 075	972	1 085	999	1 026	1 069	1 025	961	840	804	757	735	641	609	722	875	785	Production	
Import	427	737	934	971	1 007	972	808	895	838	869	899	832	925	1 087	1 009	1 025	969	847	682	697	767	745	631	492	Import	
Export	- 245	- 434	- 811	- 985	- 896	- 737	- 616	- 552	- 458	- 561	- 562	- 583	- 634	- 690	- 613	- 554	- 521	- 533	- 489	- 450	- 458	- 518	- 595	- 564	Export	
Transformation sector	-1 284	-1 453	-1 572	-1 514	-1 571	-1 574	-1 488	-1 427	-1 354	-1 400	-1 363	-1 374	-1 340	-1 501	-1 440	-1 407	-1 329	-1 176	-1 008	- 978	-1 042	-1 039	- 930	- 775	Transformation sector	
Petroleum refineries	-1 284	-1 453	-1 572	-1 514	-1 571	-1 574	-1 488	-1 427	-1 354	-1 400	-1 363	-1 374	-1 340	-1 501	-1 440	-1 411	-1 333	-1 180	-1 008	- 978	-1 042	-1 039	- 930	- 775	Petroleum refineries	
Petroleum products																									Petroleum products	
Primary energy supply	- 78	- 114	- 102	- 131	- 147	- 100	68	123	185	162	310	375	406	368	477	565	602	695	855	906	922	904	946	1 047	Primary energy supply	
Import	175	136	170	177	171	204	377	407	501	460	602	653	667	622	762	842	869	967	1 147	1 199	1 281	1 272	1 276	1 275	Import	
Export	- 144	- 120	- 145	- 161	- 204	- 192	- 162	- 138	- 147	- 134	- 131	- 107	- 102	- 92	- 98	- 96	- 87	- 80	- 74	- 96	- 96	- 111	- 165	- 149	Export	
Transformation sector	1 301	1 485	1 578	1 517	1 509	1 499	1 460	1 404	1 289	1 319	1 324	1 333	1 288	1 364	1 316	1 296	1 216	1 068	906	874	919	982	878	712	Transformation sector	
Power generation	- 40	- 33	- 22	- 25	- 24	- 27	- 33	- 35	- 37	- 35	- 50	- 38	- 58	- 56	- 36	- 63	- 46	- 57	- 51	- 51	- 48	- 43	- 45	- 45	Power generation	
Petroleum refineries	1 342	1 521	1 602	1 544	1 536	1 527	1 495	1 439	1 327	1 355	1 375	1 372	1 347	1 420	1 352	1 358	1 263	1 125	957	925	967	1 030	921	757	Petroleum refineries	
Final energy consumption	1 067	1 150	1 282	1 265	1 285	1 313	1 350	1 350	1 378	1 403	1 442	1 436	1 476	1 542	1 576	1 606	1 603	1 577	1 594	1 620	1 663	1 641	1 544	1 541	Final energy consumption	
Industry	121	124	149	142	117	129	126	129	133	127	144	136	162	132	157	163	189	162	157	157	170	175	181	188	Industry	
Transport	874	948	1 049	1 038	1 065	1 067	1 106	1 100	1 129	1 158	1 179	1 177	1 219	1 251	1 259	1 281	1 283	1 278	1 295	1 315	1 344	1 338	1 245	1 205	Transport	
Residential	16	15	15	14	14	15	14	12	11	13	12	16	15	16	16	16	16	15	17	15	15	15	15	15	Residential	
Commerce & public services	11	12	13	13	20	19	21	21	24	24	25	26	26	28	30	31	32	33	30	31	31	27	27	28	Commerce & public services	
Others	46	51	57	57	68	83	83	88	82	81	81	81	83	82	84	85	84	89	95	102	103	85	76	104	Others	
Gas																									Gas	
Primary energy supply	619	701	807	850	789	857	860	794	958	1 065	1 155	1 177	1 146	1 201	1 150	1 293	1 372	1 384	1 276	1 313	1 363	1 423	1 557	1 530	Primary energy supply	
Production	718	1 047	1 195	1 219	1 270	1 240	1 247	1 313	1 510	1 602	1 669	1 750	1 862	1 995	1 911	2 261	2 321	2 436	2 894	3 696	4 237					

Major economic indicators of Australia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹¹	17.07	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	24.97	25.34	25.66	25.69	Population (millions) ¹¹
Gross domestic product ¹³																									Gross domestic product ¹³
Real term, billion USD (constant 2015)	631	709	873	891	927	956	996	1 027	1 055	1 095	1 134	1 156	1 181	1 209	1 256	1 289	1 322	1 351	1 387	1 419	1 460	1 492	1 491	1 524	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	529	595	733	747	777	802	835	862	885	919	951	969	991	1 014	1 054	1 081	1 109	1 133	1 164	1 190	1 225	1 251	1 251	1 279	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	311	368	416	379	396	467	614	695	748	854	1 056	929	1 149	1 398	1 547	1 576	1 468	1 351	1 207	1 326	1 428	1 392	1 327	1 553	Nominal, billion USD (current)
GDP per capita ¹³																									GDP per capita ¹³
Real term (constant 2015 USD)	36 965	39 395	45 893	46 232	47 535	48 453	49 959	50 911	51 605	52 586	53 382	53 272	53 607	54 131	55 270	55 728	56 319	56 709	57 355	57 702	58 480	58 868	58 116	59 340	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	31 006	33 045	38 495	38 780	39 872	40 643	41 906	42 704	43 287	44 110	44 777	44 684	44 965	45 405	46 361	46 745	47 240	47 568	48 109	48 400	49 053	49 379	48 748	49 774	GDP, PPP (constant 2017 USD)
Nominal (current USD)	18 250	20 447	21 853	19 682	20 291	23 706	30 820	34 461	36 571	41 024	49 681	42 810	52 132	62 599	68 047	68 156	62 515	56 709	49 877	53 934	57 207	54 941	51 722	60 445	Nominal (current USD)
Nominal GDP & its components (billions of current AUD) ¹¹																									Nominal GDP & its components (billions of current AUD) ¹¹
Gross domestic product	405	496	662	707	756	803	864	925	999	1 088	1 179	1 261	1 304	1 418	1 500	1 536	1 599	1 623	1 658	1 759	1 843	1 947	1 979	2 080	Gross domestic product
Households and NPISHs final consumption expenditure	221	284	380	410	433	464	495	526	560	610	659	681	722	765	805	840	877	911	945	977	1 017	1 050	1 034	1 054	Households and NPISHs final consumption expenditure
General government final consumption expenditure	71	92	122	131	138	147	158	169	182	197	213	231	245	264	282	288	299	310	329	349	367	394	430	464	General government final consumption expenditure
Gross fixed capital formation	112	124	172	164	184	209	230	250	278	298	333	348	353	369	411	428	430	426	420	422	449	454	448	467	Gross fixed capital formation
Stock change	5.2	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	-7.7	6.5	Stock change
Exports of goods and services	61	89	128	157	157	153	148	169	198	220	238	290	258	304	323	307	337	326	319	373	403	470	475	459	Exports of goods and services
Imports of goods and services	69	98	143	156	157	170	171	194	217	238	268	287	270	289	325	327	342	350	357	364	396	422	400	370	Imports of goods and services
Real GDP & its components (billions of 2019 AUD) ¹¹																									Real GDP & its components (billions of 2019 AUD) ¹¹
Gross Domestic Product	861	968	1 192	1 216	1 265	1 304	1 359	1 402	1 440	1 495	1 548	1 577	1 612	1 650	1 715	1 759	1 804	1 843	1 894	1 937	1 993	2 036	2 035	2 080	Gross Domestic Product
Households and NPISHs final consumption expenditure	431	484	594	614	632	660	695	726	750	790	827	830	858	893	918	935	956	981	1 006	1 030	1 057	1 074	1 042	1 054	Households and NPISHs final consumption expenditure
General government final consumption expenditure	165	189	225	230	237	244	255	263	271	279	288	300	305	314	326	328	333	341	357	374	387	407	436	464	General government final consumption expenditure
Gross fixed capital formation	168	183	249	229	250	281	306	324	351	367	399	405	412	427	477	491	481	464	447	446	468	462	450	467	Gross fixed capital formation
Stock change	8.5	5.1	3.0	2.6	1.3	-1.7	6.2	8.6	-3.1	1.9	5.6	-5.8	-2.8	5.5	6.7	0.1	-4.0	1.2	1.0	2.0	3.7	-0.9	-8.0	6.5	Stock change
Exports of goods and services	115	171	245	266	264	266	269	279	287	299	311	318	333	336	352	370	393	420	447	471	490	510	501	459	Exports of goods and services
Imports of goods and services	75	98	147	145	147	167	189	213	231	255	292	281	300	332	369	372	361	366	365	384	411	412	383	370	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																									Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	3.0	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	2.7	2.6	2.4	2.6	2.4	2.1	1.9	2.3	Agriculture, Fishery and Forestry
Industry	29	27	25	24	24	24	24	25	26	26	26	27	25	26	26	25	26	24	22	23	24	25	26	26	Industry
Services, etc.	59	62	64	64	64	64	64	64	64	64	64	64	66	65	65	66	66	67	68	67	67	66	66	66	Services, etc.
Industrial production index (2010=100) ¹²	56.8	62.8	73.7	76.9	77.3	78.5	83.4	86.7	92.1	99.2	103.0	91.8	100.0	104.9	103.0	103.0	104.3	103.1	107.8	110.9	110.9	112.1	117.5	113.1	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	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	Exports, f.o.b.
Imports, c.i.f.	42.0	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	Imports, c.i.f.
Balance of payments (billions of current USD) ¹²																									Balance of payments (billions of current USD) ¹²
Trade balance	0.5	-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	39.8	87.0	Trade balance
Current account	-15.5	-18.7	-15.5	-8.0	-16.0	-29.3	-41.3	-43.3	-46.3	-64.6	-51.5	-48.5	-45.8	-45.4	-68.5	-50.9	-44.8	-57.0	-41.3	-35.8	-31.6	5.1	31.4	49.9	Current account
Overall balance	1.3	0.3	-2.1	0.6	-0.1	6.2	0.3	6.0	7.9	-35.7	3.9	12.5	-0.5	9.9	5.6	5.6	6.4	7.5	7.9	13.0	-11.2	3.8	-21.0	23.0	Overall balance
Foreign exchange rate (AUD/USD) ¹¹	1.28	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	Foreign exchange rate (AUD/USD) ¹¹
PPP conversion factor, GDP (AUD/USD) ¹¹	1.36	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	1.48	1.45	1.45	PPP conversion factor, GDP (AUD/USD) ¹¹
Price Indices																									Price Indices
GDP Deflator (2021=100) ¹³	47.0	51.2	55.6	58.1	59.8	61.6	63.5	66.0	69.3	72.8	76.2	80.0	80.9	85.9	87.5	87.3	88.6	88.1	87.5	90.8	92.5	95.6	97.3	100.0	GDP Deflator (2019=100) ¹³
Producer Price Index (2010=100) ¹²	63.3	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	N.A.	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	59.8	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	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																									Growth rate (%) ¹³
Real GDP	3.6	3.9	3.9	2.0	4.0	3.1	4.2	3.2	2.7	3.8	3.6	1.9	2.2	2.4	3.9	2.6	2.6	2.2	2.7	2.3	2.9	2.2	-0.1	2.2	Real GDP
Population	1.5	1.1	1.2	1.3	1.1	1.2	1.1	1.2	1.4	1.8	2.0	2.1	1.6	1.4	1.8	1.7	1.5	1.4	1.6	1.7	1.5	1.5	1.2	0.1	Population
Price																									Price
Producer prices	6.0	3.6	7.1	3.1	0.2	-1.2	7.7	6.0	6.1	2.3	8.1	-5.5	7.1	8.9	3.7	-0.5	-3.5	-4.9	-1.4	8.5	5.2	1.0	-3.7	N.A.	Producer prices
Consumer prices	7.3	4.6	4.5	4.4	3.0	2.7	2.3	2.7	3.6	2.3	4.4	1.8	2.9	3.3	1.8	2.4	2.5	1.5	1.3	1.9	1.9	1.6	0.8	2.9	Consumer prices

Source ¹¹: World Development Indicators, World Bank¹²: International Financial Statistics, International Monetary Fund¹³: Calculated from ¹¹ and ¹² by ESTO

Note : N.A. means "not available"

: AUD means Australian Dollar, 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)

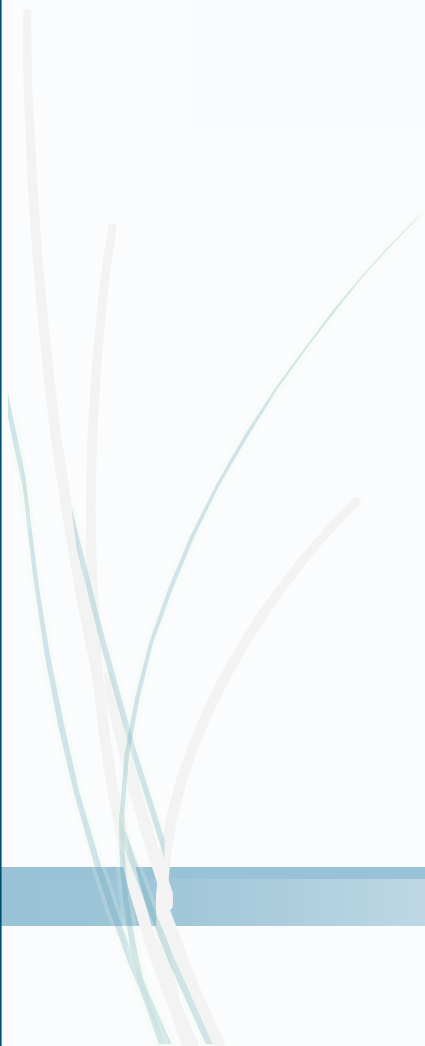
Energy prices in Australia

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
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

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production			219											378						598		Production	
Import	29		332	23	23								0.3						385		Import		
Export			- 169	- 348	- 55	- 46	- 3.4		- 102		- 29		- 113	- 270					- 787		Export		
International marine bunkers																					International marine bunkers		
International aviation bunkers				-0.8			-0.8												-0.8		International aviation bunkers		
Stock changes			-1.0	0.5	0.2				0.3				-0.1	0.9					0.3		Stock changes		
Total primary energy supply	29		381	- 325	- 32	- 46	-4.2		- 101		- 29		- 113	109					195		Total primary energy supply		
Transfers				22	21	0.6							1.1						22		Transfers		
Total transformation sector	-6.7		- 384	365	67	47	4.0	0.2	110		30		107	- 64			21		- 69		Total transformation sector		
Main activity producers				-0.4					-0.4					- 51			15		- 37		Main activity producers		
Autoproducers	-6.7													-5.5			5.9		-6.2		Autoproducers		
Gas processing				0.8							0.8			12					13		Gas processing		
Petroleum refineries			- 395	365	67	47	4.0	0.2	110		29		107						- 30		Petroleum refineries		
Coal transformation																					Coal transformation		
Other transformation			11											- 20					-8.3		Other transformation		
Losses & own use	- 22													- 36				-3.6		- 61	Losses & own use		
Discrepancy	-0.5		2.4	- 40	- 44	-2.0	0.2		1.6		-0.2		4.3	-8.8				0.5		- 47	Discrepancy		
Total final consumption				22	11			0.2	9.9		0.8		0.2	0.8			17		41		Total final consumption		
Total final energy consumption				22	11			0.2	9.9		0.8			0.8			17		40		Total final energy consumption		
Industry sector				5.3				0.2	5.1								5.1		10		Industry sector		
Iron and steel																					Iron and steel		
Chemical & petrochemical																	4.6		4.6		Chemical & petrochemical		
Non-metallic minerals																					Non-metallic minerals		
Other industries				5.3				0.2	5.1								0.5		5.8		Other industries		
Transport sector				16	11				4.8										16		Transport sector		
Domestic air transport																					Domestic air transport		
Road				16	11				4.8										16		Road		
Rail																					Rail		
Inland waterways																					Inland waterways		
Other transport																					Other transport		
Other sector				0.8							0.8			0.8			12		14		Other sector		
Residential				0.8							0.8			0.8			5.1		6.7		Residential		
Commerce and public services																	7.2		7.2		Commerce and public services		
Agriculture																					Agriculture		
Non-specified others																					Non-specified others		
Non-energy				0.2									0.2						0.2		Non-energy		
2020																					2020		
Production			225											415					640		Production		
Import	27		312	18	9.9		5.2		2.9				0.1						358		Import		
Export			- 175	- 349	- 58	- 30	- 14		- 109		- 24		- 114	- 306					- 829		Export		
International marine bunkers																					International marine bunkers		
International aviation bunkers				-3.4			-3.4												-3.4		International aviation bunkers		
Stock changes			2.2	- 16	-7.1	-1.4	-2.7		1.1		-0.9		-4.9	2.2					- 12		Stock changes		
Total primary energy supply	27		365	- 350	- 55	- 31	- 15		- 105		- 25		- 119	111					153		Total primary energy supply		
Transfers																					Transfers		
Total transformation sector	-6.5		- 365	374	67	31	15	0.2	116		26	0.2	119	- 69			21		- 45		Total transformation sector		
Main activity producers				-0.5					-0.5					- 49			15		- 35		Main activity producers		
Autoproducers	-6.5													-6.4			6.0		-6.9		Autoproducers		
Gas processing				0.8							0.8			11					12		Gas processing		
Petroleum refineries			- 379	373	67	31	15	0.2	116		25	0.2	119						-5.3		Petroleum refineries		
Coal transformation																					Coal transformation		
Other transformation			14											- 24					- 10		Other transformation		
Losses & own use	- 21			-0.1								-0.1		- 38			-3.5		- 62		Losses & own use		
Discrepancy				0.1										-3.2			-0.3		-3.4		Discrepancy		
Total final consumption				24	12			0.2	11		0.8	0.1	0.2	0.8			17		42		Total final consumption		
Total final energy consumption				24	12			0.2	11		0.8	0.1		0.8			17		42		Total final energy consumption		
Industry sector				5.1				0.2	4.7				0.1				5.0		10		Industry sector		
Iron and steel																					Iron and steel		
Chemical & petrochemical				0.1								0.1					4.5		4.6		Chemical & petrochemical		
Non-metallic minerals																					Non-metallic minerals		
Other industries				5.0				0.2	4.7								0.5		5.4		Other industries		
Transport sector				17	12				5.1										17		Transport sector		
Domestic air transport																					Domestic air transport		
Road				17	12				5.1										17		Road		
Rail																					Rail		
Inland waterways																					Inland waterways		
Other transport																					Other transport		
Other sector				1.5					0.7		0.8			0.8			12		14		Other sector		
Residential				0.8							0.8			0.8			4.9		6.5		Residential		
Commerce and public services																	7.0		7.0		Commerce and public services		
Agriculture																					Agriculture		
Non-specified others				0.7					0.7										0.7		Non-specified others		
Non-energy				0.2									0.2						0.2		Non-energy		

Major energy indicators of Brunei Darussalam

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
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	187	153	195	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	640	598	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	99	358	385	Import
Export	-605	-670	-734	-736	-772	-800	-782	-797	-823	-751	-739	-659	-690	-660	-661	-615	-572	-585	-554	-545	-518	-595	-829	-787	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	40	42	40	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	8.1	10	10	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	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	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	Commerce & public services
Others																0.7	1.2			1.0	1.3		0.7		Others
Coal																									Coal
Primary energy supply																						7.7	27	29	Primary energy supply
Production																									Production
Import																						7.7	27	29	Import
Export																									Export
Transformation sector																						-3.1	-6.5	-6.7	Transformation sector
Power generation																						-3.1	-6.5	-6.7	Power generation
Final energy consumption																									Final energy consumption
Industry																									Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Coal products																									Coal 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	7.1	365	381	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	225	219	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	7.1	312	332	Import
Export	-334	-375	-428	-424	-442	-447	-438	-462	-465	-404	-393	-338	-347	-334	-345	-286	-271	-276	-270	-250	-237	-271	-175	-169	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	-7.1	-365	-384	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	-8.5	-379	-395	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	-3.2	-350	-325	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	20	18	23	Import
Export	-0.2													-1.1	-0.6	-0.4	-0.6	-0.4				-3.7	-349	-348	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	Transformation sector
Power generation	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.6	-0.5	-0.4	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	Petroleum refineries
Final energy consumption	10	15	14	14	15	16	16	17	18	19	20	20	16	24	26	25	25	25	23	26	26	25	24	22	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	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	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	0.7	0.8	0.8	0.8	0.8	0.8	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	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	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	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	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	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	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	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	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	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	14			

Major economic indicators of Brunei Darussalam

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	0.26	0.30	0.33	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.38	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43	0.44	0.44	0.45	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	9.1	11	11	12	12	12	13	13	13	13	13	13	13	13	14	13	13	13	13	13	13	13	13	13	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	18	22	23	24	25	25	25	25	27	27	26	26	26	27	28	27	26	26	26	26	26	27	27	27	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	3.5	4.7	6.0	5.6	5.8	6.6	7.9	9.5	11	12	14	11	14	19	19	18	17	13	11	12	14	13	12	14	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	34 723	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	70 359	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	13 441	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	Nominal (current USD)
Nominal GDP & its components (billions of current BND) ¹																									Nominal GDP & its components (billions of current BND) ¹
Gross domestic product	6.4	6.7	10	10	10	11	13	16	18	18	20	16	19	23	24	23	22	18	16	17	18	18	17	19	Gross domestic product
Households and NPISHs final consumption expenditure	1.7	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	1.4	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	General government final consumption expenditure
Gross fixed capital formation	1.2	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	Gross fixed capital formation
Stock change																									Stock change
Exports of goods and services	3.9	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	Exports of goods and services
Imports of goods and services	2.4	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	Imports of goods and services
Real GDP & its components (billions of 2010 BND) ¹																									Real GDP & its components (billions of 2010 BND) ¹
Gross Domestic Product	13	15	16	17	17	18	18	18	19	19	19	18	19	19	20	19	19	19	18	18	18	19	19	19	Gross Domestic Product
Households and NPISHs final consumption expenditure	1.4	1.7	1.8	1.8	1.8	2.1	2.4	2.4	2.5	2.5	2.6	2.7	2.7	2.9	3.1	3.3	3.2	3.4	3.3	3.5	3.6	3.8	4.0	4.9	Households and NPISHs final consumption expenditure
General government final consumption expenditure	2.2	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	General government final consumption expenditure
Gross fixed capital formation	2.8	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	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	15	15	15	16	17	17	16	17	15	14	14	13	12	12	12	12	10	10	10	10	12	13	14	Exports of goods and services
Imports of goods and services	2.8	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																									Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	0.6	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	Agriculture, Fishery and Forestry
Industry	82.7	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	Industry
Services, etc.	25.2	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	Services, etc.
Industrial production 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.	N.A.	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) ²
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	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	Exports, f.o.b.
Imports, c.i.f.	1.0	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	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	Trade balance
Current account	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	Current account
Overall balance	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	Overall balance
Foreign exchange rate (BND/USD) ¹	1.81	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	Foreign exchange rate (BND/USD) ¹
PPP conversion factor, GDP (BND/USD) ¹	0.44	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	PPP conversion factor, GDP (BND/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2010=100) ³	48.8	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	GDP Deflator (2010=100) ³
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.	189.6	N.A.	N.A.	186.9	201.7	221.7	221.7	221.7	221.7	Producer Price Index
Consumer Price Index (2010=100) ²	78.0	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	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	1.1	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	Real GDP
Population	3.2	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	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.	7.9	9.9	0.0	0.0	0.0	Producer prices
Consumer prices	2.1	6.0	1.6	0.6	-2.3	0.3	0.8	1.2	0.2	1.0	2.1	1.0	0.4	0.1	0.1	0.4	-0.2	-0.5	-0.3	-1.3	1.0	-0.4	1.9	1.7	Consumer prices

Sources ¹: World Development Indicators, World Bank
²: International Financial Statistics, International Monetary Fund
³: Calculated from ¹ and ² by ESTO
: N.A. means "not available"
: BND means Brunei Dollar, 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)

Energy prices in Brunei Darussalam

IMPORT PRICES

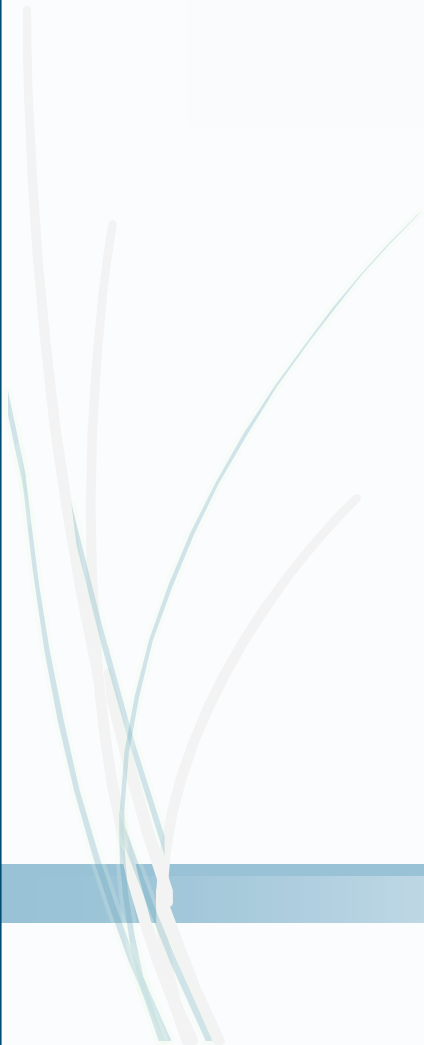
	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	BND / US Dollar				1.25	1.27	1.41	1.40	1.38	1.38	1.36	1.38	1.34
Coal and Coal Products													
Coking Coal													
Anthracite													
Other bituminous coal													
Sub-bituminous Coal													
Lignite	USD/tonne										63.73	54.18	109.26
Peat													
Patent Fuel													
Coke													
Coal Tar													
BKB/PB													
Oil and Oil Products													
Crude Oil	USD/tonne										513.71	305.09	554.95
Natural Gas Liquids													
Ethane													
LPG	USD/tonne										527.90		
Naphtha	USD/tonne										595.27	461.88	
Motor Gasoline	USD/tonne					0.79						381.02	725.55
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	
Other Kerosene	USD/L				0.77								
Gas/Diesel Oil	USD/L				0.78	0.76						0.39	
Fuel Oil	USD/tonne											298.62	
White Spirit SBP													
Lubricants	USD/L											2.16	2.61
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
Currency Exchange Rate	BND / US Dollar				1.25	1.27	1.41	1.40	1.38	1.38	1.36	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	53.88	44.63	55.93	73.17	68.45	43.33	72.07
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
Cylinder 44 kg	BND/cylinder				34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56
Naphtha													
Motor Gasoline RON97	BND/L				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
RON85	BND/L				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
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
SVP Diesel	BND/L											0.82	0.81
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	6.66	9.80
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
Next 100 units	BND/kVA				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
Remaining units	BND/kVA				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
Residential - 1-600 kWh	BND/kWh				0.25		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
2001-4000 kWh	BND/kWh				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
Others (Government)	BND/kWh				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

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Napththa	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																							
Production	1 051		11 712											6 743	1 378	1 010	149	529		22 572	2 045	Production	
Import	164	34	1 500	419	229		40	13	44	16			77	856				49	47	3 069	49	Import	
Export	- 796	-2.6	-8 587	- 994	- 294	-8.7	- 18		- 316	- 54			- 303	-2 813				- 79	- 217	-13 488	- 79	Export	
International marine bunkers				-9.1					-2.3	-6.8										-9.1		International marine bunkers	
International aviation bunkers				- 91			- 91													- 91		International aviation bunkers	
Stock changes	- 24	-0.6	20	6.9	4.9	0.3	-0.1	0.2	4.6	1.6	-0.2		-4.4	100				2.0		104	2.0	Stock changes	
Total primary energy supply	395	31	4 645	- 668	- 60	-8.3	- 69	13	- 269	- 44	-0.2		- 230	4 885	1 378	1 010	149	502	- 171	12 156	2 017	Total primary energy supply	
Transfers			- 267	347		-1.2	-3.0		89	-9.2	243	209	- 181							80		Transfers	
Total transformation sector	- 388	35	-4 257	4 132	1 317	41	137	8.5	1 331	134	70	134	961	- 882	-1 378	-1 010	- 147	- 109	2 314	23	-1 667	-1 630	Total transformation sector
Main activity producers	- 315			- 38	-1.0				-8.1	- 16			- 13	- 472	-1 303	-1 010	- 138	- 40	2 121	22	-1 173	-1 476	Main activity producers
Autoproducers		-1.4		- 16					-5.1	-2.1		-6.5	-2.1	- 267	- 75		-9.3	- 69	193	0.7	- 244	- 153	Autoproducers
Gas processing																						Gas processing	
Petroleum refineries			-4 416	4 201	1 318	41	137	8.5	1 344	152	70	140	991								- 215		Petroleum refineries
Coal transformation	- 73	36																			- 37		Coal transformation
Other transformation			159	- 15									- 15	- 142							1.6		Other transformation
Losses & own use				- 533	-0.6			-0.1	- 92	-0.3	-2.8	- 333	- 105	-1 750				-0.1	- 263		-2 546	-0.1	Losses & own use
Discrepancy	27	-9.4	- 120	186	100	65	11	-5.4	- 13	- 38	- 102	- 11	180	- 123					12	7.5	- 21	12	Discrepancy
Total final consumption	33	56		3 464	1 356	96	75	16	1 045	43	208		625	2 131			1.8	404	1 889	23	8 002	399	Total final consumption
Total final energy consumption	29	55		2 635	1 356		75	16	1 045	43	76		24	2 000			1.8	404	1 889	23	7 038	399	Total final energy consumption
Industry sector	29	55		236	37			1.0	145	20	9.1		24	676				234	666	22	1 917	227	Industry sector
Iron and steel	7.2	51		1.2					1.0				0.2	67				0.1	27	0.1	153	0.1	Iron and steel
Chemical & petrochemical				2.2				0.1	0.9	0.2			1.0	141					75	12	230		Chemical & petrochemical
Non-metallic minerals	12			20						0.1			19	40				7.7	19		97	0.8	Non-metallic minerals
Other industries	10	4.5		213	37			0.9	143	20	9.1		3.2	429				226	545	10	1 437	226	Other industries
Transport sector				2 085	1 270		75		712	17	11			157				90	29		2 360	90	Transport sector
Domestic air transport				75	1.9		73														75		Domestic air transport
Road				1 864	1 267				586		11			2.0				90	4.6		1 961	90	Road
Rail				86					86												86		Rail
Inland waterways				54					38	17											54		Inland waterways
Other transport				5.8	1.5		2.8		1.6					155					24		185		Other transport
Other sector	0.5			315	49			15	188	5.9	56			1 167			1.8	80	1 194	1.2	2 760	82	Other sector
Residential				55				2.0	38		15			566				80	633		1 334	80	Residential
Commerce and public services				51				13	5.9	0.2	32			561				0.6	523	0.4	1 136	0.6	Commerce and public services
Agriculture	0.5			208	49			0.3	144	5.7	8.8			40					38		287		Agriculture
Non-specified others																1.8				0.8	2.6	1.8	Non-specified others
Non-energy	3.4	0.8		829		96					132		601	131							964		Non-energy
2020																							
Production	1 024		11 093											6 488	1 391	1 071	148	513		21 728	2 041	Production	
Import	160	35	1 701	390	186		49	13	35	22			86	836				47	35	3 206	47	Import	
Export	- 793	-2.2	-8 197	- 929	- 291	-9.6	- 19		- 319	- 33			- 257	-2 508				- 73	- 242		-12 744	- 73	Export
International marine bunkers				- 12					-5.3	-6.8											- 12		International marine bunkers
International aviation bunkers				- 91			- 91														- 91		International aviation bunkers
Stock changes	-9.5	2.9	- 73	3.3	-3.1	0.2	1.9	-0.2	-3.0	-0.1	-0.1		7.7	- 115				-1.1			- 193	-1.1	Stock changes
Total primary energy supply	381	36	4 525	- 639	- 108	-9.4	- 59	13	- 293	- 18	-0.1		- 164	4 701	1 391	1 071	148	486	- 206		11 894	2 015	Total primary energy supply
Transfers			- 314	394		-0.5	-2.9		90	-9.8	233	211	- 128								80		Transfers
Total transformation sector	- 435	49	-4 097	4 011	1 287	43	116	9.6	1 338	130	66	134	887	- 823	-1 391	-1 071	- 146	- 108	2 345	22	-1 644	-1 641	Total transformation sector
Main activity producers	- 352			- 42	-1.0				-8.1	- 15			- 18	- 429	-1 291	-1 071	- 137	- 38	2 125	22	-1 214	-1 462	Main activity producers
Autoproducers		-1.6		- 18					-4.5	-1.7		-9.6	-2.0	- 247	- 100		-9.3	- 70	219	0.7	- 226	- 179	Autoproducers
Gas processing																							

Major energy indicators of Canada

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules	
Total																									Total	
Primary energy supply	8 857	9 804	10 562	10 407	10 422	10 994	11 186	11 307	11 485	11 464	11 183	10 772	10 776	11 017	11 082	11 303	11 601	11 518	12 003	12 497	12 665	12 760	11 894	12 156	Primary energy supply	
Production	11 586	14 747	15 638	15 811	16 102	16 194	16 710	16 769	17 470	17 577	17 058	16 391	16 616	17 242	17 807	18 686	19 569	19 703	20 286	21 614	22 506	22 562	21 728	22 572	Production	
Import	1 943	1 896	3 018	3 218	3 076	3 355	3 412	3 465	3 465	3 446	3 760	3 553	3 533	3 765	3 888	3 619	3 453	3 682	3 800	3 600	3 544	3 782	3 206	3 069	Import	
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	-13 038	-13 489	-12 744	-13 488	Export	
Final energy consumption	6 005	6 522	6 762	6 527	6 911	7 108	7 098	7 009	6 810	7 049	6 961	6 688	6 763	6 995	6 901	7 104	7 209	7 115	7 113	7 360	7 600	7 513	6 848	7 038	Final energy consumption	
Industry	1 977	2 146	2 267	2 123	2 239	2 319	2 380	2 197	1 749	1 830	1 782	1 849	1 782	1 851	1 849	1 871	1 969	1 871	1 913	1 989	1 979	1 822	1 917	1 917	Industry	
Transport	1 805	2 000	2 183	2 149	2 312	2 342	2 304	2 359	2 343	2 435	2 434	2 379	2 466	2 478	2 489	2 558	2 547	2 540	2 535	2 599	2 689	2 648	2 233	2 360	Transport	
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	1 360	1 334	Residential	
Commerce & public services	770	859	827	817	919	959	943	970	918	951	968	947	991	954	986	1 037	1 037	1 017	1 016	1 092	1 151	1 190	1 149	1 136	Commerce & public services	
Others	136	160	176	160	147	151	151	217	219	227	233	202	237	261	257	269	281	287	287	295	307	297	284	290	Others	
Coal																									Coal	
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	381	395	Primary energy supply	
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	Production	
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	Import	
Export	-892	-978	-799	-738	-669	-718	-645	-703	-691	-771	-805	-722	-842	-848	-870	-978	-857	-764	-760	-774	-801	-887	-793	-796	Export	
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	-435	-388	Transformation sector	
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	-352	-315	Power generation	
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	28	29	Final energy consumption	
Industry	41	43	53	50	48	49	51	57	63	61	59	51	58	57	55	48	46	48	39	43	37	34	27	29	Industry	
Transport																									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					Residential	
Commerce & public services	0.2		0.1	0.3								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	Commerce & public services	
Others																									Others	
Coal products																									Coal 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	Primary energy supply	
Production																									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	Import	
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	-1.2	-0.8	-1.7	-2.1	-1.2	-0.1	-1.1	-1.1	-2.2	-2.6	Export	
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	Transformation sector	
Power generation	-0.5	-1.4	-3.3	-3.2	-3.6	-4.0	-5.1	-0.8	-3.3	-0.7	-0.5	-0.4	-0.3	-0.4	-0.3	-0.3	-0.3	-1.8	-1.8	-2.1	-1.6	-1.7	-1.6	-1.4	Power generation	
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	56	55	Final energy consumption	
Industry	77	88	85	77	74	75	82	85	85	79	76	64	68	79	76	61	62	58	63	65	69	66	56	55	Industry	
Transport																									Transport	
Residential																									Residential	
Commerce & public services																									Commerce & public services	
Others																									Others	
Crude oil & NGL																									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	4 965	4 525	4 645	Primary energy supply	
Production	3 942	4 750	5 377	5 452	5 714	6 038	6 251	5 985	6 652	6 811	6 704	6 662	6 999	7 441	8 010	8 547	9 206	9 475	9 446	10 413	11 188	11 581	11 093	11 712	Production	
Import	1 136	1 276	1 965	1 955	1 873	1 916	1 975	2 056	1 903	1 918	1 910	1 881	1 773	1 673	1 920	1 863	1 879	2 159	2 173	1 898	1 827	1 892	1 701	1 500	Import	
Export	-1 583	-2 534	-3 284	-3 210	-3 420	-3 563	-3 732	-3 636	-4 018	-4 132	-4 211	-4 201	-4 350	-4 929	-5 364	-5 849	-6 345	-6 781	-7 149	-7 468	-8 212	-8 576	-8 197	-8 587	Export	
Transformation sector	-3 582	-3 525	-3 992	-4 076	-4 139	-4 301	-4 406	-4 209	-4 124	-4 222	-4 057	-3 911	-3 991	-3 788	-3 844	-3 755	-3 775	-3 770	-3 822	-4 037	-3 931	-4 579	-4 097	-4 257	Transformation sector	
Petroleum refineries	-3 596	-3 525	-3 989	-4 094	-4 158	-4 323	-4 429	-4 284	-4 222	-4 322	-4 157	-4 021	-4 108	-3 908	-3 981	-3 886	-3 908	-3 911	-3 953	-4 165	-4 076	-4 744	-4 260	-4 416	Petroleum refineries	
Petroleum products																									Petroleum products	
Primary energy supply	-263	-294	-401	-502	-569	-456	-569	-431	-456	-567	-410	-433	-405	-314	-619	-690	-676	-585	-493	-742	-603	-631	-639	-668	Primary energy supply	
Import	321	278	308	418	364	472	515	657	611	543	678	555	542	644	509	501	472	501	560	484	566	628	390	419	Import	
Export	-496	-516	-624	-806	-867	-885	-922	-914	-872	-908	-915	-867	-857	-798	-964	-964	-947	-952	-902	-1 013	-929	-1 051	-929	-994	Export	
Transformation sector	3 469	3 522	3 931	3 988	4 148	4 250	4 324	4 179	4 141	4 095	3 960	4 324	4 179	4 241	4 067	3 967	3 846	3 637	3 716	3 778	3 942	3 806	4 462	4 011	4 132	Transformation sector
Power generation	-159	-85	-101	-157	-131	-194	-199	-148	-125	-130	-102	-109	-87	-74	-73	-81	-81	-87	-81	-78	-79	-70	-60	-54	Power generation	
Petroleum refineries	3 628	3 607	4 032	4 145	4 280	4 444	4 522	4 327	4 266	4 370	4 197	4 070	4 155	3 941	3 999	3 927	3 718	3 804	3 859	4 020	3 885	4 546	4 086	4 201	Petroleum refineries	
Final energy consumption	2 267	2 317	2 541	2 514	2 670	2 772	2 734	2 790	2 734	2 855	2 833	2 737	2 858	2 889	2 881	2 902	2 858	2 876	2 863	2 952	3 029	2 982	2 523	2 635	Final energy consumption	
Industry	284	241	270	276	245	258	267	248	219	226	212	202	210	221	227	216	203	207	216	236	258	261	223	236	Industry	
Transport	1 672	1 774	1 962	1 946	2 099	2 159	2 131	2 157	2 148	2 239	2 251	2 213	2 299	2 294	2 298	2 337	2 297	2 288	2 277	2 345	2 420	2 380	1 984	2 085	Transport	
Residential	195	144	136	125	121	127	111	131	123	135	124	119	114	112	100	87	82	80	77	71	70	67	59	55	Residential	
Commerce & public services	31	52	56	63	113	133	130	92	78	79	70	58	59	68	71	67	68	66	62	58	55	59	53	51	Commerce & public services	
Others	84	106	117	104	92	94	95	162	165	175	177	145	176	193	186	195	207	211	212	220	228	216	205	208	Others	
Gas																									Gas	
Primary energy supply	2 292	2 810	3 109	3 009	3 071	3 338	3 267	3 398	3 327	3 312	3 213	3 220	3 169	3 450	3 504	3 669	3 713	3 577	4 336	4 659	4 889	4 923	4 701	4 885	Primary energy supply	
Production	3 709	5 453	6 212	6 376	6 420	6 329	6 315	6 473	6 485	6 312	6 018	5 606	5 419	5 4												

Major economic indicators of Canada

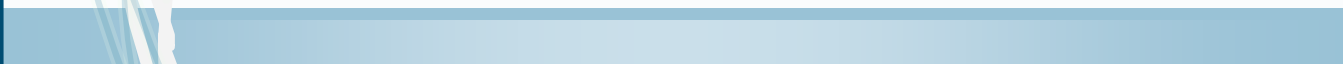
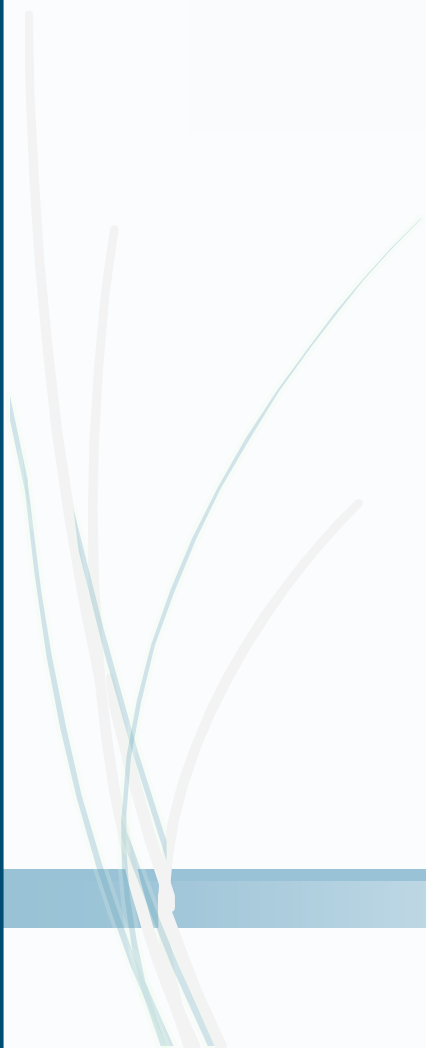
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ^{*1}	27.69	29.30	30.69	31.02	31.36	31.64	31.94	32.24	32.57	32.89	33.25	33.63	34.00	34.34	34.71	35.08	35.44	35.70	36.11	36.55	37.07	37.60	38.01	38.23	Population (millions) ^{*1}
Gross domestic product ^{*3}																									Gross domestic product ^{*3}
Real term, billion USD (constant 2015)	878	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	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	957	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	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	596	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	Nominal, billion USD (current)
GDP per capita ^{*3}																									GDP per capita ^{*3}
Real term (constant 2015 USD)	31 707	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	34 563	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	21 526	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	Nominal (current USD)
Nominal GDP & its components (billions of current CAD) ^{*1}																									Nominal GDP & its components (billions of current CAD) ^{*1}
Gross domestic product	696	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	Gross domestic product
Households and NPISHs final consumption expenditure	388	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	157	180	211	223	236	250	259	271	288	304	327	345	358	375	385	394	404	416	426	443	462	478	504	549	General government final consumption expenditure
Gross fixed capital formation	151	153	217	231	238	251	279	310	342	368	389	351	391	417	448	460	487	475	461	486	507	522	520	603	Gross fixed capital formation
Stock change	-2.8	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	Stock change
Exports of goods and services	174	300	489	481	478	463	499	524	530	540	570	448	486	544	555	577	633	634	638	673	723	749	656	776	Exports of goods and services
Imports of goods and services	173	274	426	416	426	414	439	468	489	506	541	471	517	565	589	607	651	683	686	720	766	782	705	777	Imports of goods and services
Real GDP & its components (billions of 2015 CAD) ^{*1}																									Real GDP & its components (billions of 2015 CAD) ^{*1}
Gross Domestic Product	891	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	583	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	296	299	314	324	332	341	348	351	361	370	384	394	403	408	411	408	410	416	423	432	446	450	456	485	General government final consumption expenditure
Gross fixed capital formation	233	225	303	317	321	337	366	399	424	438	445	395	440	460	483	490	501	475	453	468	480	483	472	507	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.	Stock change
Exports of goods and services	245	364	554	538	544	535	565	577	582	589	562	489	522	547	563	577	613	634	643	652	677	695	634	643	Exports of goods and services
Imports of goods and services	227	302	449	427	435	453	492	528	556	588	593	520	591	625	648	661	678	683	683	715	739	741	672	725	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.	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	Agriculture, Fishery and Forestry
Industry	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	Industry
Services, etc.	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	Services, etc.
Industrial production index (2010=100) ^{*2}	80.8	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	Industrial production index (2010=100) ^{*2}
External trade (billions of current USD) ^{*1}																									External trade (billions of current USD) ^{*1}
Exports, f.o.b.	127.6	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	Exports, f.o.b.
Imports, c.i.f.	123.2	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	Imports, c.i.f.
Balance of payments (billions of current USD) ^{*2}																									Balance of payments (billions of current USD) ^{*2}
Trade balance	9.4	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	Trade balance
Current account	-20.3	-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	Current account
Overall balance	2.5	-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	Overall balance
Foreign exchange rate (CAD/USD) ^{*1}	1.17	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	N.A.	Foreign exchange rate (CAD/USD) ^{*1}
PPP conversion factor, GDP (CAD/USD) ^{*1}	1.24	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	PPP conversion factor, GDP (CAD/USD) ^{*1}
Price Indices																									Price Indices
GDP Deflator (2015=100) ^{*3}	61.9	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	GDP Deflator (2015=100) ^{*3}
Producer Price Index (2010=100) ^{*2}	71.2	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.	Producer Price Index (2010=100) ^{*2}
Consumer Price Index (2010=100) ^{*2}	67.3	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	Consumer Price Index (2010=100) ^{*2}
Growth rate (%) ^{*3}																									Growth rate (%) ^{*3}
Real GDP	0.2	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	1.8	2.3	2.9	0.7	1.0	3.0	2.8	1.9	-5.1	5.0	Real GDP
Population	1.5	1.0	0.9	1.1	1.1	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.0	1.1	1.1	1.0	0.7	1.1	1.2	1.4	1.4	1.1	0.6	Population
Price																									Price
Producer prices	9.6	0.3	8.5	5.7	5.7	5.7	3.9	4.6	6.2	5.4	7.6	5.6	3.7	4.8	2.6	2.4	2.7	2.8	2.6	4.0	4.3	3.4	5.4	8.9	Producer prices
Consumer prices	-8.0	3.1	8.3	-3.2	2.3	9.5	8.7	11.1	5.7	3.0	1.7	-13.8	12.3	8.0	3.6	3.6	0.8	-6.7	-4.8	7.3	1.8	0.2	-9.5	12.9	Consumer prices

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"
: CAD means Canadian Dollar, 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)



Chile



Energy balance table of Chile

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																					2021		
Production	0.7		16											42	70		81	333		543	484	Production	
Import	273		348	380	35	6.7	21		254	1.5	59		2.0	178						1 180		Import	
Export		-1.7		-37	-1.7				-10	-14	-10		-1.4							-39		Export	
International marine bunkers				-3.0							-3.0									-3.0		International marine bunkers	
International aviation bunkers				-19			-19													-19		International aviation bunkers	
Stock changes	-7.9	0.2	-1.5	2.0	-1.1	-0.6		-0.2	6.0	0.1	-1.6		-0.7	0.9			0.9			-5.3	0.9	Stock changes	
Total primary energy supply	266	-1.5	363	322	32	6.1	1.6	-0.2	250	-15	47			221	70		81	334		1 656	485	Total primary energy supply	
Transfers			50	-49	-8.1	-16	-0.3	-1.4	-7.8	-3.1	-1.4		-11							1.0		Transfers	
Total transformation sector	-268	8.9	-416	378	126	10	16	7.8	112	41	23	9.2	33	-120	-70		-78	-212	317	-460	-360	Total transformation sector	
Main activity producers	-253			-21					-16	-0.1	-0.1		-4.8	-116	-69		-78	-25	293	-270	-172	Main activity producers	
Autoproducers				-6.0					-3.6	-2.4				-3.9	-0.6		-0.2	-186	24	-173	-187	Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			-416	406	126	10	16	7.8	132	44	23	9.2	38							-10		Petroleum refineries	
Coal transformation	-15	8.9																		-6.5		Coal transformation	
Other transformation																						Other transformation	
Losses & own use		-7.0		-14						-0.2	-4.4	-9.2		-14					-24	-60		Losses & own use	
Discrepancy	8.7	0.1	2.6	5.5	4.9	-0.4	-0.1	0.2	-1.9	-0.6	3.4			5.2			9.4	-18		14	9.4	Discrepancy	
Total final consumption	6.6	0.4		643	155		17	6.3	353	22	68		22	92			3.1	132	275	1 152	135	Total final consumption	
Total final energy consumption	6.6	0.4		629	155		17	6.3	353	22	68		7.5	68			3.1	132	275	1 114	135	Total final energy consumption	
Industry sector	6.6	0.4		153			1.9	0.6	118	14	11		7.5	39			55	162		415	55	Industry sector	
Iron and steel	0.1	0.3		0.4					0.4		0.1			0.8					2.5	4.1		Iron and steel	
Chemical & petrochemical														4.3					0.1	4.5		Chemical & petrochemical	
Non-metallic minerals	0.5			7.2									7.1	0.5					2.1	10		Non-metallic minerals	
Other industries	6.0	0.1		145			1.9	0.6	118	14	11		0.4	34			55	157		397	55	Other industries	
Transport sector				386	155		15	0.3	209	4.8	0.8			0.3					4.5	390		Transport sector	
Domestic air transport				16	0.1		15													16		Domestic air transport	
Road				355	155			0.3	199	0.2	0.8			0.3					2.8	358		Road	
Rail				1.8					1.8										1.7	3.5		Rail	
Inland waterways				13					8.8	4.7										13		Inland waterways	
Other transport																						Other transport	
Other sector				90				5.4	25	3.3	57			29			3.1	77	109	308	80	Other sector	
Residential				50				5.4			45			22				76	54	202	76	Residential	
Commerce and public services				26					16	0.1	10			5.9				0.6	46	78	0.6	Commerce and public services	
Agriculture				5.1					2.9	0.4	1.8			0.7				0.5	8.4	15	0.5	Agriculture	
Non-specified others				9.0					6.1	2.8	0.2			0.1			3.1		0.5	13	3.1	Non-specified others	
Non-energy				14									14	24						38		Non-energy	
2020																					2020		
Production	8.0		17											41	79		60	320		525	458	Production	
Import	266		318	339	15	1.3	9.4		252	0.5	53		7.2	159						1 082		Import	
Export		-3.7		-25	-0.4				-0.7	-9.5	-11		-3.9							-29		Export	
International marine bunkers				-1.3							-1.3									-1.3		International marine bunkers	
International aviation bunkers				-17			-17													-17		International aviation bunkers	
Stock changes	11	0.6	2.5	3.3	0.7	0.5	1.0	0.1		-0.1	0.6		0.6	1.6						19		Stock changes	
Total primary energy supply	285	-3.1	337	299	15	1.8	-6.8	0.1	252	-10	43		3.9	202	79		60	320		1 578	458	Total primary energy supply	
Transfers			36	-34	-2.7	-4.5		-0.7	-7.6	-6.7	-1.3		-11							1.3		Transfers	
Total transformation sector	-309	9.8	-362	350	118	2.7	22	6.7	99	38	22	8.4	34	-106	-79		-57	-187	302	-437	-322	Total transformation sector	
Main activity producers	-295			-11					-6.8				-4.5	-101	-79		-57	-25	279	-289	-160	Main activity producers	
Autoproducers				-5.2					-3.3	-1.9				-4.4	-0.2		-0.1	-155	24	-141	-156	Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			-362	367	118	2.7	22	6.7	109	40	22	8.4	38							4.3		Petroleum refineries	
Coal transformation	-15	9.8																		-4.8		Coal transformation	
Other transformation																		-6.5		-6.5		Other transformation	
Losses & own use		-6.6		-8.6						-0.1	-0.1	-8.4		-14					-23	-52		Losses & own use	
Discrepancy	30	0.1	-11	1.0	-4.6		1.4	0.1	3.3	-1.1	1.7		0.2	5.9				24	-12	39	24	Discrepancy	
Total final consumption	5.9	0.2		607	126		16	6.2	347	20	65		27	88			2.9	157	268	1 130	160	Total final consumption	
Total final energy consumption	5.9	0.2		589	126		16	6.2	347	20	65		9.2	64			2.9	157	268	1 087	160	Total final energy consumption	
Industry sector	5.8	0.2		151			2.4	0.6	115	14	9.8		9.2	36				76	161	431	76	Industry sector	
Iron and steel				0.6					0.5		0.1			0.6					2.2	3.4		Iron and steel	
Chemical & petrochemical														4.2					0.1	4.3		Chemical & petrochemical	
Non-metallic minerals	0.1			8.4							0.1		8.3	0.4					2.1	11		Non-metallic minerals	
Other industries	5.8	0.2		142			2.4	0.6	114	14	9.6		0.9	31			76	157		413	76	Other industries	
Transport sector				352	126		14	0.3	209	2.1	0.6			0.3					4.6	357		Transport sector	
Domestic air transport				14	0.2		14													14		Domestic air transport	
Road				322	126			0.3	196	0.1	0.6			0.3					2.8	325		Road	
Rail				1.7					1.7										1.8	3.5		Rail	
Inland waterways				14					12	2.0										14		Inland waterways	
Other transport																						Other transport	
Other sector	0.1			86				5.3	23	3.4	55			27	</								

Major energy indicators of Chile

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total																									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	Primary energy supply
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	Production
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	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	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	Final energy consumption
Industry	143	202	278	285	284	289	302	305	336	349	354	343	365	399	380	416	438	444	444	424	443	442	431	415	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	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	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	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	Others
Coal																									Coal
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	Primary energy supply
Production	61	29	10	16	12	16	53	11	11	4.4	11	10	11	10	12	51	70	53	42	41	38	24	8.0	0.7	Production
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	Import
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	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	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	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	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		Others
Coal products																									Coal 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	Primary energy supply
Production																									Production
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							Import
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	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	Transformation sector
Power generation																									Power generation
Final energy consumption	3.5	9.0	4.4	5.6	5.0	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	Final energy consumption
Industry	3.5	9.0	4.4	5.6	5.0	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	Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Crude oil & NGL																									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	Primary energy supply
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	Production
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	Import
Export																									Export
Transformation sector	-263	-341	-419	-425	-417	-454																			

Major economic indicators of Chile

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹¹	13.34	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	Population (millions) ¹¹
Gross domestic product ¹³																									Gross domestic product ¹³
Real term, billion USD (constant 2015)	72	105	131	135	140	146	156	165	175	184	191	189	200	213	226	233	237	242	247	250	260	262	246	275	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	129	189	237	244	252	264	281	298	316	332	345	341	361	383	407	420	428	437	445	451	469	472	443	495	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	33	73	78	72	70	77	99	122	154	173	180	171	217	251	267	277	259	242	249	276	295	278	254	317	Nominal, billion USD (current)
GDP per capita ¹³																									GDP per capita ¹³
Real term (constant 2015 USD)	5 381	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 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.	GDP, PPP (constant 2017 USD)
Nominal (current USD)	2 482	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	Nominal (current USD)
Nominal GDP & its components (billions of current CLP) ¹¹																									Nominal GDP & its components (billions of current CLP) ¹¹
Gross domestic product	10 096	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	Gross domestic product
Households and NPISHs final consumption expenditure	6 246	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	985	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	General government final consumption expenditure
Gross fixed capital formation	2 421	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	Gross fixed capital formation
Stock change	199	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	Stock change
Exports of goods and services	3 281	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	Exports of goods and services
Imports of goods and services	2 953	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	Imports of goods and services
Real GDP & its components (billions of 2013 CLP) ¹¹																									Real GDP & its components (billions of 2013 CLP) ¹¹
Gross Domestic Product	52 300	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	24 516	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	10 019	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	General government final consumption expenditure
Gross fixed capital formation	6 699	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	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.	2 185	N.A.	N.A.	N.A.	Stock change
Exports of goods and services	12 597	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	Exports of goods and services
Imports of goods and services	6 554	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																									Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	3.9	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	Agriculture, Fishery and Forestry
Industry	44.5	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	Industry
Services, etc.	51.5	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	Services, etc.
Industrial production index (2010=100) ¹²	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.	Industrial production index (2010=100) ¹²
External trade (billions of current USD) ¹¹																									External trade (billions of current USD) ¹¹
Exports, f.o.b	8.4	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	Exports, f.o.b
Imports, c.i.f	7.9	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	Imports, c.i.f
Balance of payments (billions of current USD) ¹²																									Balance of payments (billions of current USD) ¹²
Trade balance	1.3	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	N.A.	Trade balance
Current account	-0.5	-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	N.A.	Current account
Overall balance	2.4	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	N.A.	Overall balance
Foreign exchange rate (CLP/USD) ¹¹	304.90	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	Foreign exchange rate (CLP/USD) ¹¹
PPP conversion factor, GDP (CLP/USD) ¹¹	170.54	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	PPP conversion factor, GDP (CLP/USD) ¹¹
Price Indices																									Price Indices
GDP Deflator (2018=100) ¹³	19.3	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	GDP Deflator (2018=100) ¹³
Producer Price Index (2010=100) ¹²	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.	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	30.0	57.3	73.7	76.3	78.2	80.4	81.2	83.7	86.6	90.4	98.3	98.6	100.0	103.3	106.4	108.4	113.5	118.4	122.9	125.6	128.6	131.9	135.9	142.1	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																									Growth rate (%) ¹³
Real GDP	3.3	8.9	5.0	3.2	3.2	4.7	6.7	5.8	6.0	5.2	3.8	-1.1	5.9	6.2	6.2	3.3	1.8	2.2	1.8	1.4	4.0	0.7	-6.1	11.7	Real GDP
Population	1.6	1.5	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.6	1.8	1.8	1.4	1.0	Population
Price																									Price
Producer prices	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	393.8	4.2	-144.3	-2558.1	23.0	12.2	-6.6	-3.9	-7.8	-1.2	-0.7	9.7	4.9	1.9	N.A.	N.A.	Producer prices
Consumer prices	26.0	8.2	3.8	3.6	2.5	2.8	1.1	3.1	3.4	4.4	8.7	0.4	1.4	3.3	3.0	1.8	4.7	4.3	3.8	2.2	2.4	2.6	3.0	4.5	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"
: CLP means Chilean Peso, 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)

Energy prices in Chile

IMPORT PRICES

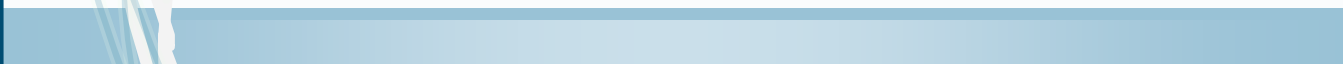
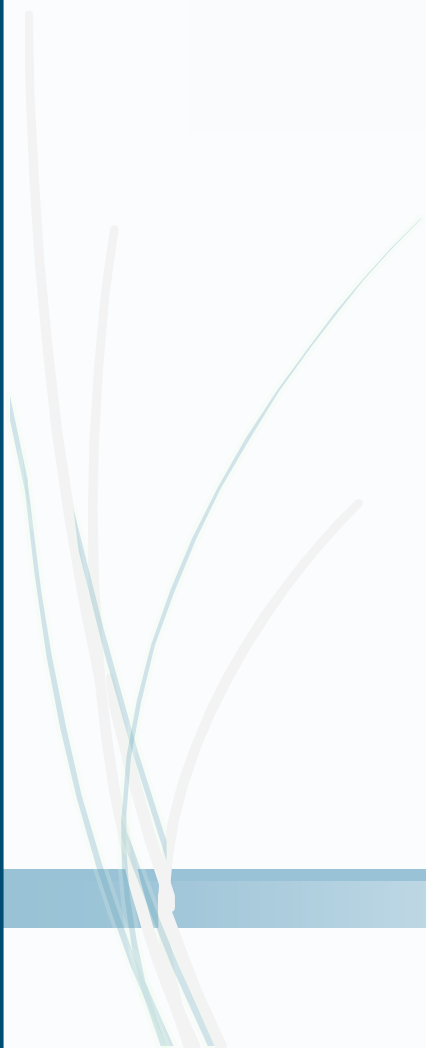
	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	CHP / US Dollar	510.25	483.67	486.47	495.27	570.35	654.12	676.96	648.83	641.28	702.90	792.73	744.04
Coal and Coal Products													
Coking Coal	USD/tonne		269.22	222.36	122.52	150.01	108.00	95.92	202.17	214.05	230.69	140.59	166.49
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
Sub-bituminous Coal													
Lignite													
Peat													
Patent Fuel													
Coke													
Coal Tar													
BKB/PB													
Oil and Oil Products													
Crude Oil	USD/m ³		651.19	647.92	638.07	587.40	298.50	238.41	310.73	407.48	379.80	238.14	417.05
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
Currency Exchange Rate	CHP / 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
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	CHP/L		563.00	565.14	606.42	634.30	541.60	556.76	637.40	703.01	689.14	740.66	912.76
Naphtha													
Motor Gasoline (regular)	CHP/L		733.80	786.11	801.44	876.15	751.36	706.92	737.88	805.45	805.62	786.94	876.34
Aviation Gasoline													
Gasoline Type Jet Fuel													
Kerosene Type Jet Fuel													
Other Kerosene	CHP/L		585.74	609.35	625.61	705.41	623.36	559.23	555.11	656.09	666.88	584.04	692.07
Gas/Diesel Oil	CHP/L		579.58	606.73	614.19	667.77	511.08	432.44	485.97	580.84	592.56	547.78	627.74
Fuel Oil													
White Spirit SBP													
Lubricants													
Bitumen													
Paraffin Waxes													
Petroleum Coke													
Natural Gas													
Natural Gas	CHP/MWh		66 649	60 753	55 443	58 585	54 890	53 660	63 506	71 672	75 592	78 339	85 573
Liquefied Natural Gas (export)													
Compressed Natural Gas													
Electricity													
Industrial	CHP/MWh		74 614	61 573	58 452	59 255	75 009	84 320	97 192	101 835	112 181	130 287	130 281
Commercial	CHP/MWh		105 632	95 068	92 716	92 439	110 488	122 630	138 872	145 449	156 277	160 163	160 090
Residential	CHP/MWh		101 902	90 093	85 340	86 417	103 284	114 779	129 299	126 441	137 982	142 813	142 809
Others													
Other Energy Products													



China



Energy balance table of China

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																					2021		
Production	84 784		8 327											7 735	4 689	4 446	3 535	3 214		116 729	10 945	Production	
Import	5 764	38	21 475	2 853	15	292	68		33	578	1 245		622	6 242				21		36 393		Import	
Export	- 65	- 184	- 109	- 2 727	- 627		- 370		- 735	- 821	- 50		- 124	- 206				- 73		- 3 363		Export	
International marine bunkers				- 287					- 19	- 268										- 287		International marine bunkers	
International aviation bunkers				- 94			- 94													- 94		International aviation bunkers	
Stock changes	- 908	63	582	- 1 345	- 114	- 16	9.1		84	23	- 29		- 1 303							- 1 607		Stock changes	
Total primary energy supply	89 575	- 83	30 275	- 1 600	- 726	277	- 387		- 636	- 488	1 166		- 805	13 771	4 689	4 446	3 535	3 214	- 51	147 771	10 945	Total primary energy supply	
Transfers				- 5 974	- 19	- 874			- 33	- 1 098	- 425	- 124	- 3 401							- 5 974		Transfers	
Total transformation sector	-72 177	8 119	-30 072	34 774	6 929	3 220	1 644	100	7 181	2 417	2 397	1 020	9 867	-1 475	-4 689	-4 446	-3 535	-1 620	30 723	7 159	-37 238	-9 342	Total transformation sector
Main activity producers	-53 608	-2 107	-5.2	- 378					- 14	- 112	-4.6	- 108	- 139	-2 536	-4 689	-4 446	-3 535	-1 620	30 723	8 524	-33 677	-9 342	Main activity producers
Autoproducers																				-1 365	-1 365		Autoproducers
Gas processing	- 826	- 145		- 24							-2.4	- 14	-8.1	1 061							66		Gas processing
Petroleum refineries			-30 066	35 176	6 929	3 220	1 644	100	7 195	2 529	2 404	1 142	10 014								5 110		Petroleum refineries
Coal transformation	-17 743	10 372																			-7 371		Coal transformation
Other transformation																							Other transformation
Losses & own use	-1 134	- 388	- 189	- 2 210	- 12	- 562		-0.5	- 114	-0.7	- 696	- 797	- 29	-1 254				- 29	-4 558	- 986	-10 748	- 29	Losses & own use
Discrepancy	-2 005	64	- 13	- 978	- 61	- 79	49		- 90	14	- 141	- 12	- 658	-1 312				8.8		- 69	-4 304	-0.3	Discrepancy
Total final consumption	14 259	7 712	1.0	24 012	6 110	1 981	1 305	100	6 308	844	2 302	88	4 974	9 730			1 574	26 114	6 105	89 507	1 574	Total final consumption	
Total final energy consumption	11 192	6 816	1.0	16 939	6 110	22	1 305	99	6 304	829	1 742	41	486	9 493			1 574	26 114	6 105	78 234	1 574	Total final energy consumption	
Industry sector	8 553	6 733	1.0	1 700	294	22		2.6	557	81	216	41	486	5 317				312	15 934	4 202	42 753	312	Industry sector
Iron and steel	2 146	5 061		26	0.9				20	0.1	4.1	0.3	0.2	573				11	2 562	178	10 558	11	Iron and steel
Chemical & petrochemical		662	0.6	696	4.5	22		0.4	13	19	166	41	431	1 443			113	2 568	2 505	7 989	113	Chemical & petrochemical	
Non-metallic minerals	5 014	500	0.2	192	4.7			0.1	107	49	23	0.1	8.7	1 094				29	1 495	57	8 381	29	Non-metallic minerals
Other industries	1 393	509	0.2	786	284			2.0	417	13	24		46	2 207			159	9 309	1 461	15 825	159	Other industries	
Transport sector	27			11 316	4 615		1 305		4 597	741	58			1 336				358	717		13 754	358	Transport sector
Domestic air transport				1 305			1 305														1 305		Domestic air transport
Road				7 723	4 175				3 486	4.3	58			1 336				358	155		9 572	358	Road
Rail	27			179	6.3				170	2.3									404		610		Rail
Inland waterways				1 458	99				634	725											1 458		Inland waterways
Other transport				651	335				307	9.4									158		809		Other transport
Other sector	2 612	83		3 923	1 200			97	1 150	7.7	1 468			2 840			904	9 462	1 902	21 726	904	Other sector	
Residential	1 335	61		1 374				1.2			1 373			2 267			644	4 420	1 580	11 681	644	Residential	
Commerce and public services	375	14		65				6.0	5.6	4.8	48			339			14	1 693	104	2 604	14	Commerce and public services	
Agriculture	403	6.1		848	121			5.3	717	0.4	3.4			6.2			208	575	6.0	2 052	208	Agriculture	
Non-specified others	499	1.6		1 636	1 079			84	427	2.5	43			227			38	2 774	212	5 389	38	Non-specified others	
Non-energy	3 067	897		7 073	0.7	1 958		0.4	4.3	14	560	47	4 488	237							11 273		Non-energy
2020																					2020		
Production	79 809		8 155											7 172	4 768	3 996	2 618	3 004		109 522	9 819	Production	
Import	5 414	85	22 693	2 642	21	303	115		51	525	1 007		621	5 210				17		36 061		Import	
Export	- 80	- 100	- 69	- 2 785	- 690		- 430		- 844	- 663	- 48		- 110	- 192				- 78		- 3 304		Export	
International marine bunkers				- 245					- 15	- 230										- 245		International marine bunkers	
International aviation bunkers				- 99			- 99													- 99		International aviation bunkers	
Stock changes	-1 279	49	-1 484	- 823	54	-6.2	-2.1		- 84	- 27	-8.9		- 749							- 3 537		Stock changes	
Total primary energy supply	83 864	34	29 295	- 1 310	- 616	297	- 416		- 892	- 395	951		- 238	12 190	4 768	3 996	2 618	3 004	- 61	138 399	9 819	Total primary energy supply	
Transfers				- 5 885	- 10	- 603			- 50	- 1 160	- 280	- 102	- 3 681							- 5 885		Transfers	
Total transformation sector	-66 522	8 160	-28 906	33 299	6 148	2 763	1 677	104	7 046	2 311	2 250	975	10 026	-1 258	-4 768	-3 996	-2 618	-1 378	28 005	5 968	-34 014	-8 180	Total transformation sector
Main activity producers	-48 022	-2 185	-6.9	- 371					- 13	- 109	-3.9	- 99	- 146	-2 172	-4 768	-3 996	-2 618	-1 378	28 005	7 247	-30 267	-8 180	Main activity producers
Autoproducers																				-1 278	-1 278		Autoproducers
Gas processing	- 745	- 77		- 12							-1.9	-7.3	-2.8	914							81		Gas processing
P																							

Major energy indicators of China

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total																									Total
Primary energy supply	28 172	36 860	39 841	41 955	45 156	52 989	61 462	70 165	76 227	82 182	86 482	93 670	101 401	112 716	116 599	119 428	117 716	118 097	118 019	122 596	128 422	134 064	138 399	147 771	Primary energy supply
Production	30 548	37 588	39 361	41 858	43 906	50 617	57 824	63 943	69 152	74 182	78 282	83 264	88 794	98 428	100 529	102 764	99 226	98 214	92 665	96 381	101 797	106 661	109 522	116 729	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	22 258	22 191	25 611	28 538	31 875	34 239	36 061	36 393	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	-2 012	-2 440	-3 068	-3 235	-3 398	-3 627	-3 304	-3 363	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	69 251	69 841	69 987	71 164	72 904	73 741	74 729	78 234	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	41 476	40 221	39 042	38 888	39 731	40 210	41 283	42 753	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	11 240	11 966	12 320	12 932	13 365	13 521	12 875	13 754	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	8 712	9 274	9 945	10 475	10 803	10 745	11 231	11 681	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	2 125	2 222	2 320	2 357	2 391	2 527	2 466	2 604	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	5 697	6 158	6 359	6 513	6 615	6 738	6 874	7 441	Others
Coal																									Coal
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	80 913	78 832	75 952	77 157	79 618	81 741	83 864	89 575	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	76 788	74 753	68 742	68 742	71 438	75 305	78 453	79 809	84 784	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	5 193	3 639	4 557	4 831	5 030	5 345	5 414	5 764	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	-133	-219	-202	-123	-150	-80	-65	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	-58 015	-55 691	-56 713	-59 100	-62 905	-65 563	-66 522	-72 177	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	-41 064	-39 427	-40 480	-43 116	-45 936	-47 279	-48 022	-53 608	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	20 480	20 113	18 247	16 167	13 629	11 733	11 837	11 192	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	15 924	15 420	13 596	11 760	9 986	8 549	8 764	8 553	Industry
Transport	464	283	189	181	183	206	179	175	167	151	144	138	130	135	123	122	126	111	91	79	72	64	54	27	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	2 094	2 167	2 137	2 090	1 737	1 474	1 414	1 335	Residential
Commerce & public services	241	222	331	360	401	474	546	596	634	671	699	722	689	783	799	835	867	888	880	794	622	566	518	375	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	1 469	1 527	1 544	1 444	1 212	1 081	1 086	902	Others
Coal products																									Coal 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	Primary energy supply
Production							0.2	0.2				4.5	3.1	3.3	2.2	1.0	0.7	1.0	0.5	2.6	1.5	85	38		Production
Import							-427	-364	-413	-437	-348	-16	-95	-94	-29	-133	-245	-277	-291	-231	-279	-186	-100	-184	Import
Export	-37	-252	-433	-394	-386	-419	-62	-86	-171	-146	-250	-250	-822	-965	-1 040	-1 233	-1 347	-1 340	-1 404	-1 438	-1 694	-1 866	-2 185	-2 107	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	9 791	8 860	8 975	8 209	8 484	8 913	8 160	8 119	Transformation sector
Power generation	-26	-30	-32	-28	-29	-25	-62	-86	-171	-146	-250	-250	-822	-965	-1 040	-1 233	-1 347	-1 340	-1 404	-1 438	-1 694	-1 866	-2 185	-2 107	Power generation
Final energy consumption	1 724	1 514	1 472	1 434	1 464	1 565	1 739	2 593	2 631	2 884	3 238	3 468	5 451	6 404	6 993	6 950	7 386	6 916	7 016	6 925	7 105	7 560	7 241	6 816	Final energy consumption
Industry	1 660	1 377	1 197	1 159	1 182	1 261	1 423	2 272	2 322	2 582	3 015	3 265	5 215	6 188	6 781	6 746	7 180	6 736	6 844	6 786	6 953	7 405	7 129	6 733	Industry
Transport	1.2	2.9	3.3	3.4	3.3	3.2	0.5	0.3	0.2	0.2	0.1					0.6	0.8	0.9	0.9	1.7	0.1	0.1			Transport
Residential	39	81	228	228	232	253	269	271	259	250	194	177	205	183	180	158	159	134	129	99	95	93	79	61	Residential
Commerce & public services	3.0	8.5	14	16	16	18	20	25	25	28	74	7.1	8.6	8.3	8.6	18	28	25	23	23	22	40	24	14	Commerce & public services
Others	21	44	29	28	30	29	26	26	24	24	21	19	22	25	24	28	18	20	20	15	35	22	9.0	7.8	Others
Crude oil & NGL																									Crude oil & NGL
Primary energy supply	4 928	6 194	8 953	9 017	9 533	10 545	12 147	12 598	13 502	14 250	14 863	15 964	17 952	18 406	19 546	20 378	21 664	22 857	24 004	25 108	26 732	28 473	29 295	30 275	Primary energy supply
Production	5 791	6 282	6 824	6 865	6 992	7 101	7 363	7 593	7 736	7 801	7 973	7 934	8 500	8 494	8 687	8 789	8 852	8 983	8 360	8 018	7 927	7 997	8 155	8 327	Production
Import	122	716	2 942	2 523	2 906	3 811	5 138	5 310	6 078	6 831	7 490	8 527	9 951	10 625	11 347	11 796	12 911	14 046	15 952	17 562	19 338	21 172	22 693	21 475	Import
Export	-1 004	-763	-431	-316	-321	-341	-331	-438	-265	-163	-177	-212	-127	-105	-102	-68	-25	-120	-123	-204	-110	-34	-69	-109	Export
Transformation sector	-4 650	-6 037	-8 543	-8 612	-9 136	-10 135	-11 730	-12 177	-13 008	-13 753	-14 454	-15 540	-17 533	-18 115	-19 237	-20 017	-21 196	-22 572	-23 637	-24 699	-26 221	-28 013	-28 906	-30 072	Transformation sector
Petroleum refineries	-4 589	-6 009	-8 501	-8 572	-9 098	-10 091	-11 722	-12 159	-12 998	-13 746	-14 450	-15 537	-17 530	-18 108	-19 231	-20 012	-21 193	-22 567	-23 631	-24 693	-26 215	-28 006	-28 899	-30 066	Petroleum refineries
Petroleum products																									Petroleum products
Primary energy supply	-136	330	299	451	617	762	1 029	706	740	563	316	-218	-48	197	-138	-83	-203	47	-253	-102	-533	-913	-1 310	-1 600	Primary energy supply
Import	196	730	1 042	1 182	1 264	1 609	1 983	1 732	1 882	1 797	1 927	1 976	2 021	2 239	2 152	2 179	1 924	2 203	2 298	2 595	2 836	2 723	2 642	2 853	Import
Export	-294	-217	-421	-473	-508	-556	-694	-629	-675	-810	-840	-1 171	-1 275	-1 270	-1 186	-1 372	-1 436	-1 722	-2 241	-2 397	-2 686	-3 044	-2 785	-2 727	Export
Transformation sector	3 867	5 147	7 574	7 635	8 071	8 910	10 317	10 945	11 868	12 710	13 291	14 452	16 163	16 846	17 853	18 720	23 301	25 044	26 299	27 872	29 393	31 571	33 299	34 774	Transformation sector
Power generation	-607	-713	-633	-654	-649	-717	-864	-691	-553	-462	-375	-318	-389	-326	-302	-275	-298	-285	-302	-262	-278	-287	-371	-378	Power generation
Petroleum refineries	4 491	5 881	8 218	8 299	8 728	9 636	11 186	11 641	12 427	13 174	13 667	14 770	16 552	17 172	18 155	18 995	23 599	25 329	26 604	28 137	29 673	31 860	33 68		

Major economic indicators of China

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Population (millions) ^{*1}	1 135.19	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	Population (millions) ^{*1}	
Gross domestic product ^{*3}																									Gross domestic product ^{*3}	
Real term, billion USD (constant 2015)	1 027	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	Real term, billion USD (constant 2015)	
GDP, billion USD (PPP, constant 2017)	1 616	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	GDP, billion USD (PPP, constant 2017)	
Nominal, billion USD (current)	361	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	Nominal, billion USD (current)	
GDP per capita ^{*3}																									GDP per capita ^{*3}	
Real term (constant 2015 USD)	905	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	Real term (constant 2015 USD)	
GDP, PPP (constant 2017 USD)	1 424	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	GDP, PPP (constant 2017 USD)	
Nominal (current USD)	318	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	Nominal (current USD)	
Nominal GDP & its components (billions of current CNY) ^{*1}																									Nominal GDP & its components (billions of current CNY) ^{*1}	
Gross domestic product	1 887	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	Gross domestic product	
Households and NPISHs final consumption expenditure	944	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	Households and NPISHs final consumption expenditure	
General government final consumption expenditure	258	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	General government final consumption expenditure	
Gross fixed capital formation	453	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	Gross fixed capital formation	
Stock change	192	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	Stock change	
Exports of goods and services	235	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	Exports of goods and services	
Imports of goods and services	184	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	Imports of goods and services	
Real GDP & its components (billions of 2015 CNY) ^{*1}																									Real GDP & its components (billions of 2015 CNY) ^{*1}	
Gross Domestic Product	6 398	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	Gross Domestic Product	
Households and NPISHs final consumption expenditure	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	Households and NPISHs 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.	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.	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.	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.	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.	Imports of goods and services
Sectoral shares of Real GDP (%) ^{*1}																									Sectoral shares of Real GDP (%) ^{*1}	
Agriculture, Fishery and Forestry	34.4	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	7.4	Agriculture, Fishery and Forestry
Industry	28.3	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	39.5	Industry
Services, etc.	47.0	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	53.1	Services, etc.
Industrial production index (2010=100) ^{*4}	9.3	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	0.0	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	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	Exports, f.o.b.	
Imports, c.i.f.	53.3	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	Imports, c.i.f.	
Balance of payments (billions of current USD) ^{*2}																									Balance of payments (billions of current USD) ^{*2}	
Trade balance	9.2	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	Trade balance	
Current account	12.0	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	Current account	
Overall balance	15.3	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	Overall balance	
Foreign exchange rate (CNY/USD) ^{*1}	4.78	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	Foreign exchange rate (CNY/USD) ^{*1}	
PPP conversion factor, GDP (CNY/USD) ^{*1}	1.69	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	PPP conversion factor, GDP (CNY/USD)	

Source ^{*1}: World Development Indicators, World Bank
^{*2}: International Financial Statistics, International Monetary Fund
^{*3}: Calculated from ^{*1} and ^{*2} by ESTO
^{*4}: Calculated from ^{*1}, ^{*2} and ^{*3} by ESTO

Note
: N.A. means "not available"
: 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)



Hong Kong, China

Energy balance table of Hong Kong, China

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products								Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/diesel oil	Fuel oil	LPG	Refinery gas	Other products									
2021																						2021
Production																0.4	4.9			5.3	5.3	Production
Import	172			552	21	11	126	0.1	144	236	14			192			0.2	45		961	0.2	Import
Export				-2.5	-0.3				-2.1	-0.1										-2.6		Export
International marine bunkers				-269					-47	-222										-269		International marine bunkers
International aviation bunkers				-129			-129													-129		International aviation bunkers
Stock changes	-20			-12	0.1	1.5	3.1		-2.9	-14	0.4									-32		Stock changes
Total primary energy supply	153			139	21	12	0.1	0.1	92		14			192		0.4	5.0	45		534	5.5	Total primary energy supply
Transfers																						Transfers
Total transformation sector	-153			-16		-12			-2.5		-12			-166		-0.4	-3.0	134	0.5	-203	-3.4	Total transformation sector
Main activity producers	-153			-3.7					-2.5		-12			-178			-0.4	133	0.5	-201	-0.4	Main activity producers
Autoproducers																-0.4	-2.1	1.3		-1.3	-2.6	Autoproducers
Gas processing				-12		-12							12									Gas processing
Petroleum refineries																						Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-0.5			-0.5	-0.5	Other transformation
Losses & own use																		-13		-13		Losses & own use
Discrepancy				-39	4.0		0.2		-44					-1.5				-1.4		-42		Discrepancy
Total final consumption				84	25		0.3	0.1	45		13			25			2.0	164	0.5	275	2.0	Total final consumption
Total final energy consumption				84	25		0.3	0.1	45		13			25			2.0	164	0.5	275	2.0	Total final energy consumption
Industry sector				3.2	0.2		0.2		2.8		0.1			1.2			0.1	7.1		12	0.1	Industry sector
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-metallic minerals																						Non-metallic minerals
Other industries				3.2	0.2		0.2		2.8		0.1			1.2			0.1	7.1		12	0.1	Other industries
Transport sector				77	24		0.2		42		99						0.2	3.0		80	0.2	Transport sector
Domestic air transport				0.2			0.2													0.2		Domestic air transport
Road				69	23				37		99						0.2	0.2		70	0.2	Road
Rail																		2.8		2.8		Rail
Inland waterways				7.2	1.8				5.4											7.2		Inland waterways
Other transport																						Other transport
Other sector				3.7				0.1	0.4		3.3			23			1.7	154	0.5	184	1.7	Other sector
Residential				2.9							2.9			14				47		65		Residential
Commerce and public services				0.8					0.3		0.4			9.1			1.7	107	0.5	119	1.7	Commerce and public services
Agriculture																		0.1		0.1		Agriculture
Non-specified others																						Non-specified others
Non-energy																						Non-energy
2020																						2020
Production																0.2	4.4			4.6	4.6	Production
Import	145			632	20	11	139	0.1	200	248	14			192			0.2	46		1 014	0.2	Import
Export				-64	-0.2				-2.1	-4.1										-6.4		Export
International marine bunkers				-302					-80	-222										-302		International marine bunkers
International aviation bunkers				-142			-142													-142		International aviation bunkers
Stock changes	-7.1			-26	0.2		3.7		-94	-21	0.9									-33		Stock changes
Total primary energy supply	138			155	20	11	0.2	0.1	109		15			192		0.2	4.6	46		535	4.8	Total primary energy supply
Transfers																						Transfers
Total transformation sector	-138			-15		-11			-2.1		-1.5			-167		-0.2	-2.7	127	0.5	-195	-2.9	Total transformation sector
Main activity producers	-138			-3.6					-2.1		-1.5			-178			-0.3	126	0.5	-193	-0.3	Main activity producers
Autoproducers																-0.2	-1.9	1.0		-1.1	-2.1	Autoproducers
Gas processing				-11		-11							11									Gas processing
Petroleum refineries																						Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-0.5			-0.5	-0.5	Other transformation
Losses & own use																		-12		-12		Losses & own use
Discrepancy				-59	3.9		0.2		-63									-1.7		-61		Discrepancy
Total final consumption				81	24		0.3	0.1	44		13			25			1.9	159	0.5	267	1.9	Total final consumption
Total final energy consumption				81	24		0.3	0.1	44		13			25			1.9	159	0.5	267	1.9	Total final energy consumption
Industry sector				3.2	0.2		0.2		2.8		0.1			1.2			0.1	7.3		12	0.1	Industry sector
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-metallic minerals																						Non-metallic minerals
Other industries				3.2	0.2		0.2		2.8		0.1			1.2			0.1	7.3		12	0.1	Other industries
Transport sector				74	24		0.2		40		10.0						0.2	2.9		77	0.2	Transport sector
Domestic air transport				0.2			0.2													0.2		Domestic air transport
Road				67	22				35		10.0						0.2	0.1		67	0.2	Road
Rail																		2.7		2.7		Rail
Inland waterways				7.1	1.7				5.4											7.1		Inland waterways
Other transport																						Other transport
Other sector				3.5				0.1	0.3		3.1			24			1.6	148	0.5	178	1.6	Other sector
Residential				2.7							2.7			15				47		64		Residential
Commerce and public services				0.8					0.3		0.4			8.8			1.6	102	0.5	113	1.6	Commerce and public services
Agriculture																		0.1		0.1		Agriculture
Non-specified others																						Non-specified others
Non-energy																						Non-energy

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total																								Total	
Primary energy supply	392	457	579	580	554	571	548	590	570	585	575	560	559	581	579	590	601	591	605	600	600	599	535	534	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	53	Production
Import	567	973	896	931	959	983	1 086	1 055	1 119	1 188	1 103	1 274	1 333	1 266	1 215	1 231	1 186	1 304	1 318	1 347	1 365	1 313	1 014	961	Import
Export	- 93	- 345	- 68	- 55	- 54	- 60	- 68	- 74	- 66	- 55	- 48	- 46	- 30	- 37	- 41	- 32	- 25	- 34	- 20	- 17	- 11	- 12	- 64	- 26	Export
Final energy consumption	214	277	374	354	323	323	285	282	288	299	311	278	280	275	277	275	278	284	275	272	274	275	267	275	Final energy consumption
Industry	65	59	74	67	53	52	29	24	23	27	47	16	16	14	13	13	13	12	12	12	12	12	12	12	Industry
Transport	64	103	159	144	119	117	99	98	101	102	98	88	90	89	88	88	86	87	87	85	84	84	77	80	Transport
Residential	31	40	47	47	49	51	53	54	52	54	53	58	58	57	58	57	60	64	58	57	58	58	64	65	Residential
Commerce & public services	51	72	91	94	98	100	104	106	112	116	113	116	116	115	117	117	118	122	118	118	120	120	113	119	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	Others
Coal																								Coal	
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	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	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	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	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.																			

Major economic indicators of Hong Kong, China

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	5.70	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	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	122	158	180	181	184	189	206	221	236	252	257	251	268	280	285	294	302	309	316	328	337	332	310	330	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	164	213	242	243	247	255	277	298	319	339	346	338	361	378	385	396	407	417	426	442	455	447	418	445	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	77	145	172	169	166	161	169	182	194	212	219	214	229	249	263	276	291	309	321	341	362	363	345	369	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	21 357	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	28 798	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	13 486	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	Nominal (current USD)
Nominal GDP & its components (billions of current HKD) ¹																									Nominal GDP & its components (billions of current HKD) ¹
Gross domestic product	599	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	Gross domestic product
Households and NPISHs final consumption expenditure	344	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	41	90	125	135	138	138	136	131	132	139	148	153	157	169	185	199	214	231	248	261	281	309	341	364	General government final consumption expenditure
Gross fixed capital formation	157	338	355	341	295	272	287	302	337	340	351	340	387	455	517	516	531	537	535	576	612	521	456	483	Gross fixed capital formation
Stock change	5.7	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	Stock change
Exports of goods and services	703	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	Exports of goods and services
Imports of goods and services	652	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	Imports of goods and services
Real GDP & its components (billions of 2019 HKD) ¹																									Real GDP & its components (billions of 2019 HKD) ¹
Gross Domestic Product	1 058	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	664	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	122	165	189	201	207	212	215	209	211	218	222	228	235	241	250	256	264	273	283	291	303	318	343	364	General government final consumption expenditure
Gross fixed capital formation	241	366	385	395	380	385	398	414	444	458	464	448	482	532	568	583	582	563	563	580	590	502	446	483	Gross fixed capital formation
Stock change	11	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	Stock change
Exports of goods and services	917	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	Exports of goods and services
Imports of goods and services	880	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	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.	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	Agriculture, Fishery and Forestry
Industry	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	Industry
Services, etc.	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	Services, etc.
Manufacturing production index (2010=100) ²	162.5	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	Manufacturing production index (2010=100) ²
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	82.4	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	Exports, f.o.b.
Imports, c.i.f.	84.7	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	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	Trade balance
Current account	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	Current account
Overall balance	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	Overall balance
Foreign exchange rate (HKD/USD) ¹	7.79	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	Foreign exchange rate (HKD/USD) ¹
PPP conversion factor, GDP (HKD/USD) ¹	5.76	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	PPP conversion factor, GDP (HKD/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2021=100) ³	56.6	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	GDP Deflator (2021=100) ³
Producer Price Index (2010=100) ²	N.A.	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	Producer Price Index (2010=100) ²
Consumer Price Index (2010=100) ²	57.0	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	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	3.8	2.4	7.7	0.6	1.7	3.1	8.7	7.4	7.0	6.5	2.1	-2.5	6.8	4.8	1.7	3.1	2.8	2.4	2.2	3.8	2.8	-1.7	-6.5	6.4	Real GDP
Population	0.3	2.0	0.9	0.7	0.4	-0.2	0.8	0.4	0.6	0.9	0.6	0.2	0.7	0.7	1.1	0.4	0.7	0.9	0.6	0.8	0.8	0.7	-0.4	-0.9	Population
Price																									Price
Producer prices	N.A.	2.8	0.2	-1.6	-2.7	-0.3	2.3	0.8	2.3	3.0	5.6	-1.7	6.0	8.3	0.1	-3.1	-1.7	-2.7	1.3	3.8	2.0	1.0	2.3	1.2	Producer prices
Consumer prices	10.4	9.1	-3.7	-1.7	-3.0	-2.7	-0.3	0.8	2.0	2.0	4.3	0.6	2.3	5.3	4.1	4.3	4.4	3.0	2.4	1.5	2.4	2.9	0.3	1.6	Consumer prices

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"
: HKD means Hong Kong Dollar, 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)

Energy prices in Hong Kong, China

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	HKD / 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
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		
Other bituminous coal	HKD/tonne	594	726	654	572	519	447	397	584	683	535	419	845
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
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
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
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
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
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
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
Liquefied Natural Gas													
Compressed Natural Gas													
Electricity													
Other energy													

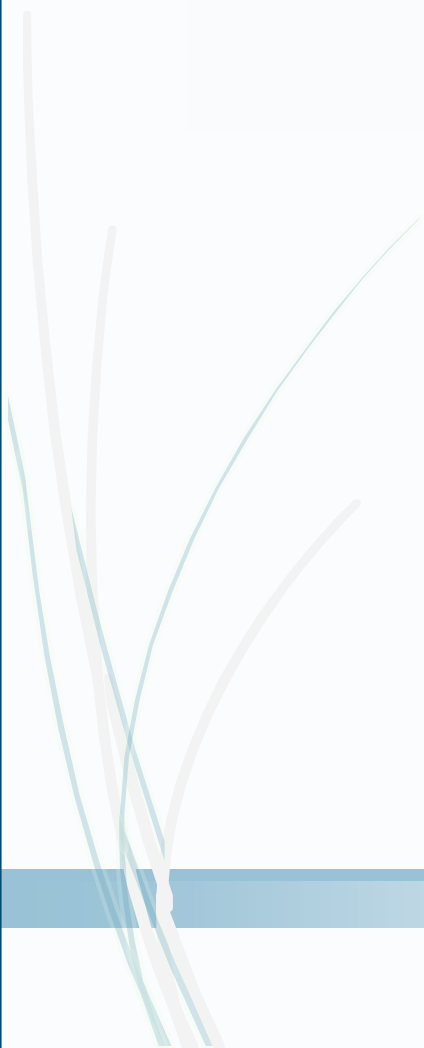
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	HKD / 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
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
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
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
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

	Coal	Coal products	Crude oil & NGL	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
				Total	Gasoline	Naphtha	Jet fuel	Kerosene	Gas/diesel oil	Fuel oil	LPG	Refinery gas	Other products									
2021																						2021
Production	15 115		1 491											2 483	89		575	1 198		20 951	1 862	Production
Import	356		612	1 178	738			15	121	6.3	297									2 146		Import
Export	-10 714		- 257	- 69				-0.1		- 69				- 765				-5.0		-11 810	-5.0	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	-1 482		34	95	- 23			- 12	2.6	57	65	5.6						8.2		-1 345	8.2	Stock changes
Total primary energy supply	3 275		1 880	1 205	715			3.8	2.6	178	2.5	303		1 718	89		575	1 202		9 943	1 865	Total primary energy supply
Transfers																						Transfers
Total transformation sector	-2 761		-1 842	1 727	510			111	15	705	113	89	184	- 459	- 89		- 575	- 301	1 114	-3 186	- 965	Total transformation sector
Main activity producers	-2 761			- 106						- 98	-7.8			- 432	- 71		- 575	- 301	1 114	-3 132	- 947	Main activity producers
Autoproducers															- 18					- 18	- 18	Autoproducers
Gas processing				49								49		- 27						22		Gas processing
Petroleum refineries			-1 842	1 786	510	1.4	111	15	804	121	40		184							- 56		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation				-1.4		-1.4														-1.4		Other transformation
Losses & own use			- 38	-5.4	-2.4				-2.7	-0.2				- 199					- 115	- 357		Losses & own use
Discrepancy				11					1.8		9.5			- 380					-1.0	- 370		Discrepancy
Total final consumption	515			2 938	1 223			115	18	882	116	401	184	680				900	998	6 031	900	Total final consumption
Total final energy consumption	515			2 754	1 223			115	18	882	116	401		509				900	998	5 676	900	Total final energy consumption
Industry sector	515			183				1.0	79	98	5.8			503				384	361	1 946	384	Industry sector
Iron and steel	280													20						300		Iron and steel
Chemical & petrochemical														198						198		Chemical & petrochemical
Non-metallic minerals	115													35						150		Non-metallic minerals
Other industries	119			183				1.0	79	98	5.8			250				384	361	1 298	384	Other industries
Transport sector				2 093	1 223			115	753	1.9				0.4				353	1.1	2 447	353	Transport sector
Domestic air transport				115				115												115		Domestic air transport
Road				1 976	1 223				753					0.4				353		2 330	353	Road
Rail																			1.1	1.1		Rail
Inland waterways																						Inland waterways
Other transport				1.9						1.9										1.9		Other transport
Other sector				478				17	50	16	395			5.7				162	636	1 282	162	Other sector
Residential				400				15			385			4.0				138	416	958	138	Residential
Commerce and public services				23				0.8	11		11			1.7				12	220	256	12	Commerce and public services
Agriculture																						Agriculture
Non-specified others				56				0.7	39	16								12		68	12	Non-specified others
Non-energy				184									184	171						355		Non-energy
2020																						2020
Production	13 878		1 534											2 132	82		563	1 087		19 277	1 732	Production
Import	216		467	984	553				122	8.8	300								5.6	1 672		Import
Export	-9 972		- 184	- 120				- 17	-4.1				- 99	- 716				-1.4		-10 993	-1.4	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	- 875		5.3	- 26	- 24			-1.0	-9.5	35	- 13	- 14						30		- 866	30	Stock changes
Total primary energy supply	3 247		1 822	838	529			- 18	-9.5	153	-3.7	286	- 99	1 417	82		563	1 116	5.6	9 091	1 761	Total primary energy supply
Transfers																						Transfers
Total transformation sector	-2 582	1.1	-1 787	1 694	538			114	28	655	57	90	213	- 491	- 82		- 563	- 253	1 045	-3 017	- 898	Total transformation sector
Main activity producers	-2 581			- 83						- 76	-6.7			- 408	- 82		- 563	- 253	1 045	-2 924	- 898	Main activity producers
Autoproducers																						Autoproducers
Gas processing				50								50		- 84						- 34		Gas processing
Petroleum refineries			-1 787	1 823	538	96	114	28	731	64	40		213							36		Petroleum refineries
Coal transformation	-1.3	1.1																		-0.2		Coal transformation
Other transformation				- 96		- 96														- 96		Other transformation
Losses & own use			- 35	-4.5	-2.1				-2.2	-0.1				- 192					- 125	- 357		Losses & own use
Discrepancy														- 40					27	- 13		Discrepancy
Total final consumption	665	1.1		2 528	1 065			96	18	805	53	376	115	694				863	952	5 703	863	Total final consumption
Total final energy consumption	665	1.1		2 414	1 065			96	18	805	53	376		554				863	952	5 449	863	Total final energy consumption
Industry sector	665	1.1		117				1.0	65	45	5.4			548				374	318	2 022	374	Industry sector
Iron and steel	325													22						347		Iron and steel
Chemical & petrochemical														216						216		Chemical & petrochemical
Non-metallic minerals	160													38						199		Non-metallic minerals
Other industries	179	1.1		117				1.0	65	45	5.4			272				374	318	1 261	374	Other industries
Transport sector				1 851	1 056			96	698	0.9				0.4				319	1.1	2 172	319	Transport sector
Domestic air transport				96				96												96		Domestic air transport
Road				1 755	1 056				698					0.4				319		2 074	319	Road
Rail																			1.1	1.1		Rail
Inland waterways																						Inland waterways
Other transport				0.9						0.9										0.9		Other transport
Other sector				446	8.8			17	42	7.3	371			5.7				170	633	1 254	170	Other sector
Residential				376				16			361			4.2				147	424	951	147	Residential
Commerce and public services				20				0.9	9.2		10.0			1.5				12	209	243	12	Commerce and public services
Agriculture																						Agriculture
Non-specified others				49	8.8			0.7	33	7.3								11		60	11	Non-specified others
Non-energy				115									115	140						254		Non-energy

Major energy indicators of Indonesia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total	3 138	3 866	5 107	5 549	5 733	6 048	6 096	6 212	6 214	6 767	6 432	6 921	7 218	8 048	7 919	8 327	9 000	8 376	8 667	8 724	9 407	9 811	9 091	9 943	Total
Primary energy supply	6 317	7 911	8 602	8 707	9 014	9 148	9 336	9 844	10 748	11 091	11 826	12 282	13 078	14 780	15 342	17 417	16 947	16 879	16 950	16 890	19 565	20 818	19 277	20 951	Primary energy supply
Production	426	661	1 066	1 245	1 458	1 564	1 887	1 674	1 471	1 567	1 500	1 556	1 609	1 786	1 830	2 031	2 115	2 075	2 008	2 178	2 137	1 843	1 672	2 146	Production
Import	-3 468	-4 626	-4 590	-4 653	-4 920	-5 081	-5 254	-5 453	-6 042	-6 275	-7 147	-7 237	-7 612	-9 088	-9 688	-10 875	-11 406	-10 977	-10 050	-8 758	-10 355	-12 277	-10 993	-11 810	Import
Export	2 282	3 162	3 841	3 900	3 866	4 155	4 270	4 262	4 262	4 427	4 384	4 409	4 753	5 227	5 566	5 124	5 273	5 126	4 836	4 988	5 539	6 013	5 449	5 676	Export
Final energy consumption	872	1 360	1 625	1 622	1 598	1 875	1 822	1 843	1 949	2 114	2 032	1 966	2 196	2 346	2 319	1 808	1 887	1 848	1 584	1 629	1 945	2 306	2 022	1 946	Final energy consumption
Industry	432	656	849	903	917	932	1 066	1 065	1 024	1 022	1 086	1 226	1 350	1 627	1 931	2 001	2 037	2 025	2 000	2 132	2 343	2 460	2 172	2 447	Industry
Transport	830	922	1 071	1 069	1 046	1 048	1 047	1 025	980	983	954	897	898	901	908	910	934	901	899	884	921	910	951	958	Transport
Residential	54	90	124	126	128	132	149	155	155	160	165	171	178	194	210	223	233	224	237	243	251	264	243	256	Residential
Commerce & public services	94	135	172	180	176	167	186	174	155	148	147	148	131	160	198	182	182	127	116	100	80	72	60	68	Commerce & public services
Others																									Others
Coal	144	228	565	834	868	1 158	1 073	1 235	1 421	1 784	1 565	1 756	1 916	2 395	2 027	2 330	2 916	2 724	2 234	2 659	2 978	3 408	3 247	3 275	Coal
Primary energy supply	266	1 030	1 897	2 278	2 544	2 813	3 258	3 760	4 770	5 341	5 915	6 307	6 774	8 697	9 505	11 678	11 278	11 363	11 231	11 355	13 731	15 169	13 878	15 115	Primary energy supply
Production	15	16	3.4	0.8	0.5	0.9	2.4	2.4	2.7	1.7	2.6	1.7	1.4	1.0	1.9	15	60	75	101	116	135	182	216	356	Production
Import	-106	-771	-1 439	-1 607	-1 826	-2 109	-2 308	-2 727	-3 536	-4 013	-4 713	-4 883	-5 121	-6 713	-7 485	-8 773	-9 404	-9 007	-8 152	-7 064	-8 774	-11 189	-9 972	-10 714	Import
Export	-110	-138	-339	-481	-493	-567	-564	-633	-684	-799	-765	-902	-848	-1 112	-1 301	-1 524	-1 553	-1 726	-1 857	-2 044	-2 244	-2 426	-2 582	-2 761	Export
Transformation sector	-109	-138	-338	-480	-493	-566	-563	-632	-683	-798	-764	-900	-847	-1 111	-1 300	-1 523	-1 552	-1 725	-1 856	-2 043	-2 244	-2 426	-2 581	-2 761	Transformation sector
Power generation	34	89	212	218	228	400	324	385	522	715	551	484	806	844	721	250	323	412	372	345	589	981	665	515	Final energy consumption
Final energy consumption	34	89	212	218	228	400	324	385	522	715	551	484	806	844	721	250	323	412	372	345	589	981	665	515	Final energy consumption
Industry																									Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Coal products			-0.1							0.1															Coal products
Primary energy supply																									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	1 672	1 994	2 188	2 192	2 173	2 167	2 210	2 138	2 023	2 010	1 968	2 013	1 824	1 959	1 831	1 835	1 894	1 672	2 511	1 985	2 043	2 046	1 822	1 880	Crude oil & NGL
Primary energy supply	3 162	3 472	3 067	2 899	2 706	2 481	2 370	2 265	2 182	2 079	2 131	2 067	2 057	1 969	1 886	1 804	1 732	1 731	1 889	1 766	1 696	1 638	1 534	1 491	Primary energy supply
Production	271	406	461	687	728	804	870	693	681	679	569	704	593	568	563										

Major economic indicators of Indonesia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	182.16	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	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	270	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	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	823	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	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	106	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	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	1 484	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	4 520	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	583	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	Nominal (current USD)
Nominal GDP & its components (quadrillions of current IDR) ¹																									Nominal GDP & its components (quadrillions of current IDR) ¹
Gross domestic product	196	454 514	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	Gross domestic product
Households and NPISHs final consumption expenditure	124	279 876	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	19	35 584	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	General government final consumption expenditure
Gross fixed capital formation	60	129 218	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	Gross fixed capital formation
Stock change	4.2	9 090	33	47	36	123	37	40	42	- 1	6	- 7	129	131	203	178	220	144	159	211	339	227	98	111	Stock change
Exports of goods and services	53	119 593	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	Exports of goods and services
Imports of goods and services	50	125 657	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	Imports of goods and services
Real GDP & its components (quadrillions of 2010 IDR) ¹																									Real GDP & its components (quadrillions of 2010 IDR) ¹
Gross Domestic Product	2 820	3 974 421	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	1 510	2 141 923	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	261	306 313	286	307	347	382	397	424	464	482	533	616	618	652	682	728	736	775	774	791	829	856	874	911	General government final consumption expenditure
Gross fixed capital formation	871	1 333 805	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	Gross fixed capital formation
Stock change	5 270	8 170 047	- 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	Stock change
Exports of goods and services	458	794 926	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	Exports of goods and services
Imports of goods and services	477	902 592	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																									Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	19.5	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	Agriculture, Fishery and Forestry
Industry	42.2	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	Industry
Services, etc.	391.4	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	Services, etc.
Industrial production index (2010=100) ²	43.3	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.	Industrial production index (2010=100) ²
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	25.7	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	Exports, f.o.b.
Imports, c.i.f.	21.8	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	5.4	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	N.A.	Trade balance
Current account	-3.0	-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	N.A.	Current account
Overall balance	1.5	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	N.A.	Overall balance
Foreign exchange rate (IDR/USD) ¹	1 843	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	Foreign exchange rate (IDR/USD) ¹
PPP conversion factor, GDP (IDR/USD) ¹	350	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	PPP conversion factor, GDP (IDR/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2010=100) ³	6.9	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	GDP Deflator (2010=100) ³
Producer Price Index (2010=100) ²	29.0	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	N.A.	Producer Price Index (2010=100) ²
Consumer Price Index (2010=100) ²	12.7	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	142.2	146.7	151.2	154.1	156.5	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	7.2	8.2	4.9	3.6	4.5	4.8	5.0	5.7	5.5	6.3	6.0	4.6	6.2	6.2	6.0	5.6	5.0	4.9	5.0	5.1	5.2	5.0	-2.1	3.7	Real GDP
Population	1.8	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.0	0.9	0.8	0.7	Population
Price																									Price
Producer prices	8.5	5.5	5.8	7.8	5.0	4.9	8.4	11.3	8.4	3.2	11.8	-4.1	5.9	8.7	1.1	1.7	3.5	1.6	0.9	1.9	1.9	1.6	2.4	N.A.	Producer prices
Consumer prices	7.8	9.4	3.7	11.5	11.9	6.8	6.1	10.5	13.1	6.4	10.2	4.4	5.1	5.4	4.3	6.4	6.4	6.4	3.5	3.8	3.2	3.0	1.9	1.6	Consumer prices

Source ¹: World Development Indicators, World Bank²: International Financial Statistics, International Monetary Fund³: Calculated from ¹ and ² by ESTO

Note : N.A. means "not available"

: IDR means Rupiah, 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)

Energy prices in Indonesia

WHOLESALE PRICES

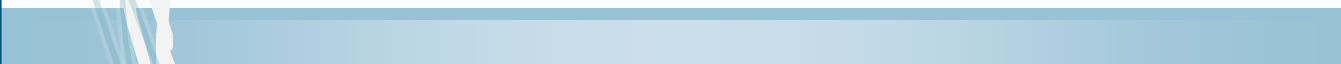
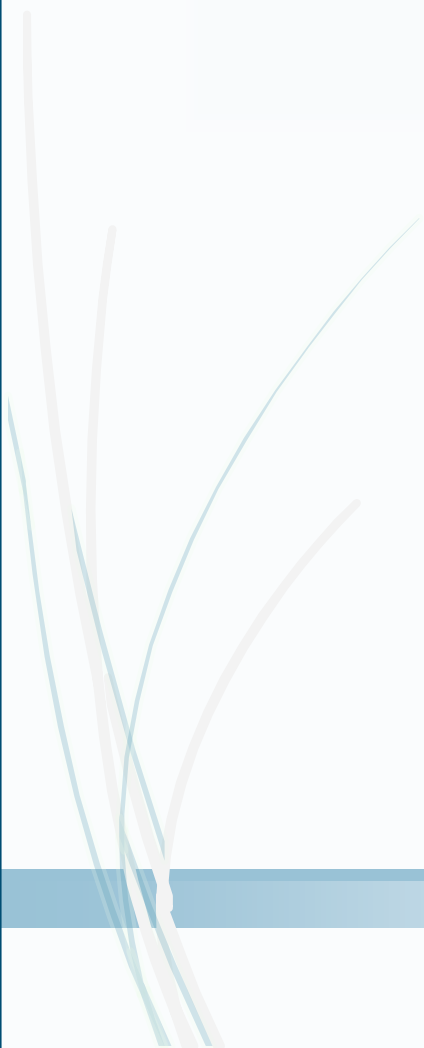
	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	IDR / US Dollar	9 090	8 770	9 387	10 461	11 865	13 389	13 308	13 381	14 237	14 148	14 582	14 308
Coal and Coal Products													
Coking Coal													
Anthracite													
Other bituminous coal	USD/tonne						60.13	66.30	85.92	98.96	77.89	58.17	121.47
Sub-bituminous Coal													
Lignite													
Peat													
Patent Fuel													
Coke													
Coal Tar													
BKB/PB													
Gas Works Gas													
Oil and Oil Products													
Crude Oil	USD/BBL						49.21	40.13	51.19	67.47	62.37	40.39	68.47
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
Currency Exchange Rate	IDR / US Dollar	9 090	8 770	9 387	10 461	11 865	13 389	13 308	13 381	14 237	14 148	14 582	14 308
Coal and Coal Products													
Coking Coal													
Anthracite													
Other bituminous coal	USD/BOE			18.00	18.00	19.00	11.23	10.64	13.51	12.78	15.00	12.90	13.00
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	102.00
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
RON92	USD/BOE			178.00	185.00	205.00	167.00	144.00	156.00	178.00	187.00	171.00	170.00
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	118.00	117.00
Other Kerosene	USD/BOE			35.00	35.00	34.00	31.00	31.00	31.00	30.00	30.00	30.00	30.00
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
CN 53	USD/BOE			176.00	190.00	212.00	184.00	142.00	145.00	179.00	199.00	173.00	179.00
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
Commercial	USD/BOE			163.00	149.00	166.00	152.00	146.00	150.00	145.00	148.00	143.00	141.00
Residential	USD/BOE			107.00	93.00	99.00	98.98	102.44	127.15	128.11	131.00	129.00	126.00
Others													
Other Energy Products													



Japan



Energy balance table of Japan

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production	15		16											80	284	772	464	604		2 236	1 106	Production	
Import	4 558	63	5 347	1 861	92	934	32	53	67	48	480		154	3 520				100		15 449	100	Import	
Export	-0.1	- 66		- 549	- 131		- 59	- 13	- 227	- 86	-1.8		- 31							- 615		Export	
International marine bunkers				- 204									-0.8							- 204		International marine bunkers	
International aviation bunkers				- 168			- 168													- 168		International aviation bunkers	
Stock changes		-1.7	- 10	14	-2.1	0.6	-1.7	12	3.7	4.6	-0.3		-2.8	31						33		Stock changes	
Total primary energy supply	4 574	-4.7	5 353	955	- 41	935	- 196	52	- 159	- 234	478		120	3 631	284	772	464	703		16 731	1 206	Total primary energy supply	
Transfers			- 56	61		31	-1.5	-2.6	1.3	-5.0	- 24		62							5.7		Transfers	
Total transformation sector	-4 114	633	-5 290	4 893	1 492	281	299	416	1 651	426	0.2	154	173	-2 407	- 284	- 772	- 452	- 439	3 740	21	-4 471	-1 008	Total transformation sector
Main activity producers	-2 368	- 125	-8.3	- 271				-3.2	- 13	- 141	-2.9	- 54	- 57	-2 343	- 273	- 772	- 177	- 303	3 119	15	-3 508	- 625	Main activity producers
Autoproducers	- 167	- 96		- 143				-2.9	-8.9	- 38	-6.7	- 48	- 39	- 143	- 10		- 275	- 130	624		- 341	- 383	Autoproducers
Gas processing				- 83							- 78	-4.9		79				-0.1			-4.0	-0.1	Gas processing
Petroleum refineries			-5 472	5 603	1 492	426	299	422	1 673	606	141	260	284								132		Petroleum refineries
Coal transformation	-1 579	854		- 15									- 15					-5.3			- 744		Coal transformation
Other transformation			190	- 198		- 145					- 53							-0.3	-3.2	6.5	-5.2	-0.3	Other transformation
Losses & own use	- 22	- 105		- 240		-1.0		-1.5	-5.7	- 38	-4.2	- 161	- 28	- 35							- 789		Losses & own use
Discrepancy	- 58	- 60	-3.1	- 159	- 21	- 155	15	4.8	7.9	11	-0.3	7.7	- 30	-7.1				-3.4	2.6		- 288	-3.4	Discrepancy
Total final consumption	380	463	4.0	5 510	1 430	1 092	115	468	1 496	161	450		297	1 182			12	261	3 355	21	11 189	194	Total final consumption
Total final energy consumption	380	433		4 284	1 430	247	115	443	1 491	143	317		97	1 172			12	261	3 355	21	9 918	194	Total final energy consumption
Industry sector	380	424		700		247		45	172	60	79		96	459				153	1 230		3 346	105	Industry sector
Iron and steel	95	376		40				4.2	8.6	3.1	11		12	97				1.4	240		849	0.2	Iron and steel
Chemical & petrochemical	106	28		364		247		5.4	20	20	23		48	85				7.5	204		794	1.2	Chemical & petrochemical
Non-metallic minerals	117	12		74				2.4	22	16	4.5		30	33				32	62		331	6.2	Non-metallic minerals
Other industries	62	8.7		222				33	122	21	40		6.5	244				112	724		1 372	97	Other industries
Transport sector				2 567	1 430		96		943	82	16			0.9				19	62		2 649	19	Transport sector
Domestic air transport				96	0.1		96														96		Domestic air transport
Road				2 334	1 430				887		16			0.9				19			2 354	19	Road
Rail				6.7					6.7										62		69		Rail
Inland waterways				131					49	82											131		Inland waterways
Other transport																							Other transport
Other sector		8.5		1 017			20	398	376	1.1	221		0.6	713			12	89	2 062	21	3 922	70	Other sector
Residential				433				254			179			386			8.2	0.2	894	1.1	1 722	8.4	Residential
Commerce and public services		8.5		397			20	128	206	1.1	42			327			2.8	72	1 155	20	1 983	61	Commerce and public services
Agriculture				116				16	99		0.1		0.3				0.3		9.9		127	0.4	Agriculture
Non-specified others				70				0.1	70				0.4				0.4	17	3.3		91	0.8	Non-specified others
Non-energy		30	4.0	1 227		845		26	5.2	18	133		200	9.8							1 271		Non-energy
2020																						2020	
Production	18		18											81	284	423	437	557		1 817	1 037	Production	
Import	4 322	26	4 905	1 841	99	919	25	95	56	23	482		142	3 761				85		14 940	85	Import	
Export	-0.1	- 94		- 403	- 81		- 33	- 45	- 148	- 58	-2.7		- 35							- 497		Export	
International marine bunkers				- 205					-2.5	- 201			-0.7							- 205		International marine bunkers	
International aviation bunkers				- 120			- 120													- 120		International aviation bunkers	
Stock changes		-0.2	153	20	5.5	2.0	4.5	-1.4	3.2	-0.7	2.2		5.1	16						189		Stock changes	
Total primary energy supply	4 340	- 69	5 075	1 133	24	921	- 125	48	- 91	- 237	481		112	3 858	284	423	437	642		16 124	1 121	Total primary energy supply	
Transfers			- 53	57	-0.2	45	-7.3	-4.8	0.2	-6.0	- 29		58							4.1		Transfers	
Total transformation sector	-3 954	615	-4 989	4 644	1 427	258	224	443	1 552	410	13	140	177	-2 663	- 284	- 423	- 425	- 389	3 628	21	-4 217	- 933	Total transformation sector
Main activity producers	-2 340	- 109	- 11	- 216				-7.4	- 18	- 86	-2.6	- 48	- 54	-2 594	- 273	- 423	- 169	- 273	3 057	15	-3 336	- 588	Main activity producers
Autoproducers	- 164	- 94		- 143		-0.1		-6.3	-9.9	- 41	-6.4	- 48	- 31	- 138	- 11		- 256	- 111	574		- 342	- 345	Autoproducers
Gas processing				- 73							- 68	-4.8		70				-0.1			-3.5	-0.1	Gas processing
Petroleum refineries			-5 150	5 269	1 427	393	224	457	1 580	536	136	240	276								119		Petroleum refineries
Coal transformation	-1 45																						

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	
Total																								Total	
Primary energy supply	18 293	20 570	21 599	21 241	21 306	21 159	21 854	21 754	21 757	21 547	20 731	19 886	20 914	19 376	18 898	19 035	18 363	18 100	17 946	18 045	17 769	17 315	16 124	16 731	Primary energy supply
Production	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	2 225	1 260	1 231	1 157	1 318	1 444	1 704	2 081	2 093	1 817	2 236	Production
Import	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	17 645	17 575	17 034	16 527	14 940	15 449	Import
Export	- 213	- 483	- 266	- 276	- 259	- 247	- 257	- 426	- 481	- 652	- 851	- 758	- 751	- 613	- 590	- 747	- 678	- 796	- 805	- 776	- 784	- 845	- 497	- 615	Export
Final energy consumption	10 800	12 085	12 569	12 467	12 626	12 453	12 594	12 703	12 599	12 515	11 823	11 387	11 668	11 496	11 321	11 325	11 013	10 778	10 635	10 729	10 526	10 295	9 792	9 918	Final energy consumption
Industry	4 528	4 537	4 333	4 204	4 254	4 181	4 214	4 275	4 293	4 272	3 873	3 674	3 841	3 860	3 787	3 788	3 679	3 547	3 472	3 478	3 498	3 366	3 185	3 346	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	2 893	2 624	2 649	Transport
Residential	1 575	1 900	2 043	1 995	2 064	2 013	2 035	2 107	2 030	2 038	1 979	1 959	2 090	2 009	2 030	1 977	1 897	1 847	1 849	1 925	1 776	1 760	1 844	1 722	Residential
Commerce & public services	1 412	1 805	2 188	2 225	2 318	2 296	2 372	2 397	2 424	2 450	2 380	2 211	2 194	2 180	2 091	2 205	2 173	2 103	2 051	2 086	2 085	2 049	1 925	1 983	Commerce & public services
Others	258	247	274	282	288	291	299	287	270	273	236	273	251	235	234	212	208	232	247	248	213	228	215	218	Others
Coal																								Coal	
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	4 340	4 574	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	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	4 558	Import
Export	-0.1	-0.1	-0.1	-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	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	-4 488	-4 419	-4 407	-4 431	-4 311	-4 252	-3 954	-4 114	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	-2 744	-2 735	-2 695	-2 729	-2 621	-2 572	-2 504	-2 535	Power generation
Final energy consumption	419	439	427	424	430	448	453	448	445	461	438	402	423	422	426	443	435	428	408	419	411	394	366	380	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	380	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 products																								Coal products	
Primary energy supply	- 40	- 92	- 3.9	- 3.4	- 3.2	- 6.9	32	15	17	26	- 12	- 7.0	14	- 7.2	- 12	28	82	57	27	3.8	3.2	- 2.5	- 6.9	- 4.7	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	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	Import
Export																									Export
Transformation sector	888	793	629	639	626	656	650	693	702	691	681	614	666	693	692	649	582	564	612	635	635	654	615	633	Transformation sector
Power generation	- 333	- 347	- 325	- 333	- 341	- 335	- 312	- 289	- 291	- 301	- 257	- 249	- 305	- 262	- 276	- 292	- 295	- 278	- 264	- 254	- 250	- 203	- 203	- 221	Power generation
Final energy consumption	655	534	416	403	409	421	414	459	481	493	462	428	489	488	482	468	452	445	439	454	441	440	391	433	Final energy consumption
Industry	653	533	416	403	409	421	414	459	481	492	460	426	487	485	479	465	449	442	435	450	437	435	383	424	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	8.5	Commerce & public services
Others																									Others
Crude oil & NGL																								Crude oil & NGL	
Primary energy supply	8 500	9 520	9 127	8 689	8 708	8 854	8 733	8 937	8 632	8 767	8 417	7 700	7 698	7 522											

Major economic indicators of Japan

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ^{*1}	123.48	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	Population (millions) ^{*1}
Gross domestic product ^{*3}																									Gross domestic product ^{*3}
Real term, billion USD (constant 2015)	3 510	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	4 369	4 463	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	4 056	4 375	4 607	4 625	4 627	4 698	4 801	4 887	4 954	5 028	4 966	4 684	4 876	4 877	4 944	5 043	5 058	5 137	5 176	5 262	5 296	5 275	5 049	5 157	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	3 133	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	5 049	5 006	Nominal, billion USD (current)
GDP per capita ^{*3}																									GDP per capita ^{*3}
Real term (constant 2015 USD)	28 422	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	34 603	35 508	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	32 846	34 868	36 323	36 376	36 306	36 785	37 576	38 251	38 751	39 281	38 781	36 578	38 070	38 150	38 736	39 570	39 740	40 403	40 728	41 444	41 764	41 654	39 990	41 035	GDP, PPP (constant 2017 USD)
Nominal (current USD)	25 371	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	39 987	39 827	Nominal (current USD)
Nominal GDP & its components (billions of current JPY) ^{*1}																									Nominal GDP & its components (billions of current JPY) ^{*1}
Gross domestic product	453 609	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	539 082	549 379	Gross domestic product
Households and NPISHs final consumption expenditure	232 791	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	291 149	293 986	Households and NPISHs final consumption expenditure
General government final consumption expenditure	61 441	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	117 711	General government final consumption expenditure
Gross fixed capital formation	161 251	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	137 560	140 608	Gross fixed capital formation
Stock change	2 285	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	-1 370	26	Stock change
Exports of goods and services	46 361	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	99 996	Exports of goods and services
Imports of goods and services	42 834	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	102 948	Imports of goods and services
Real GDP & its components (billions of 2015 JPY) ^{*1}																									Real GDP & its components (billions of 2015 JPY) ^{*1}
Gross Domestic Product	424 806	458 229	482 573	484 436	484 639	492 079	502 837	511 907	518 933	526 633	520 186	490 570	510 674	510 795	517 817	528 200	529 765	538 032	542 088	551 170	554 716	552 485	528 847	540 177	Gross Domestic Product
Households and NPISHs final consumption expenditure	230 754	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	286 740	287 894	Households and NPISHs final consumption expenditure
General government final consumption expenditure	63 081	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	113 109	117 047	General government final consumption expenditure
Gross fixed capital formation	149 170	145 620	145 351	143 390	136 456	135 596	135 993	140 029	140 587	137 561	132 304	119 042	117 490	120 098	123 428	128 504	131 358	134 355	135 912	138 101	138 927	139 688	134 622	134 495	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.	Stock change
Exports of goods and services	32 988	39 916	52 290	48 821	52 674	57 746	66 045	70 747	78 038	84 830	86 177	66 026	82 441	82 342	82 462	83 131	90 897	93 815	95 334	101 644	105 465	103 927	91 877	102 620	Exports of goods and services
Imports of goods and services	44 684	53 030	63 081	63 815	64 317	66 500	72 155	76 446	80 042	81 859	82 459	69 628	77 486	81 925	86 392	89 130	96 372	96 796	95 658	98 821	102 590	103 604	96 609	101 497	Imports of goods and services
Sectoral shares of Real GDP (%) ^{*1}																									Sectoral shares of Real GDP (%) ^{*1}
Agriculture, Fishery and Forestry	N.A.	1.5	1.7	1.5	1.6	1.4	1.3	1.2	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	Agriculture, Fishery and Forestry
Industry	N.A.	32.0	31.0	29.7	29.1	29.1	29.3	29.8	30.1	30.2	30.3	27.2	29.1	28.2	27.8	27.7	28.3	28.6	28.6	29.3	29.9	29.5	29.3	30.1	Industry
Services, etc.	N.A.	66.8	68.3	69.2	70.1	70.2	70.1	70.1	69.7	69.6	69.5	71.7	69.6	70.3	70.3	70.4	69.9	69.8	69.8	69.5	69.0	69.1	68.8	68.9	Services, etc.
Industrial production index (2010=100) ^{*2}	103.9	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	101.1	98.5	88.5	93.2	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	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	Exports, f.o.b.
Imports, c.i.f.	235.4	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	Imports, c.i.f.
Balance of payments (billions of current USD) ^{*2}																									Balance of payments (billions of current USD) ^{*2}
Trade balance	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	Trade balance
Current account	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	197.2	Current account
Overall balance	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	Overall balance
Foreign exchange rate (JPY/USD) ^{*1}	144.79	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	Foreign exchange rate (JPY/USD) ^{*1}
PPP conversion factor, GDP (JPY/USD) ^{*1}	187.61	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	103.47	105.52	105.10	104.16	104.23	102.43	102.05	PPP conversion factor, GDP (JPY/USD) ^{*1}
Price Indices																									Price Indices
GDP Deflator (2015=100) ^{*3}	106.8	113.8	111.0	109.7	108.2	106.5	105.3	104.0	103.1	102.4	101.5	100.9	99.0	97.4	96.7	96.3	97.9	100.0	100.4	100.3	100.3	101.0	101.9	101.7	GDP Deflator (2015=100) ^{*3}
Producer Price Index (2010=100) ^{*2}	107.7	103.6	99.5	97.3	95.2	94.4	95.6	97.2	99.3	101.1	105.7	100.1	100.0	101.4	100.6	101.8	105.1	102.7	99.1	101.4	103.9	N.A.	N.A.	0.0	Producer Price Index (2010=100) ^{*2}
Consumer Price Index (2010=100) ^{*2}	94.5	101.1	102.7	101.9	101.0	100.7	100.7	100.4	100.7	100.7	102.1	100.7	100.0	99.7	99.7	100.0	102.8	103.6	103.5	104.0	105.0	105.5	105.5	105.2	Consumer Price Index (2010=100) ^{*2}
Growth rate (%) ^{*3}																									Growth rate (%) ^{*3}
Real GDP	4.8	2.6	2.8	0.4	0.0	1.5	2.2	1.8	1.4	1.5	-1.2	-5.7	4.1	0.0	1.4	2.0	0.3	1.6	0.8	1.7	0.6	-0.4	-4.3	2.1	Real GDP
Population	0.3	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.3	-0.5	Population
Price																									Price
Producer prices	1.5	-0.8	0.0	-2.3	-2.1	-0.8	1.3	1.7	2.2	1.7	4.6	-5.3	-0.1	1.4	-0.9	1.2	3.2	-2.3	-3.5	2.3	2.5	N.A.	N.A.	N.A.	Producer prices
Consumer prices	3.1	-0.1	-0.7	-0.7	-0.9	-0.3	0.0	-0.3	0.2	0.1	1.4	-1.4	-0.7	-0.3	0.0	0.3	2.8	0.8	-0.1	0.5	1.0	0.5	0.0	-0.2	Consumer prices

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 de facto definition of population, which

Energy prices in Japan

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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	11 034	21 550
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
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	39 822	50 272	46 388	28 862	54 513
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	47 273	82 200
Naphtha	JPY/kL	45 484	52 957	55 253	65 454	61 155	40 843	33 110	40 135	47 764	40 906	29 648	54 228
Motor Gasoline	JPY/kL	49 112	62 378	63 093	74 638	70 623	48 319	37 539	46 167	55 432	47 978	31 259	58 234
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
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
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	62 059
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	71 243
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	41 212	70 021
Compressed Natural Gas													
Electricity													

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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	131.6	126.7	162.8
Naphtha	JPY/kL	44 542	51 352	54 685	64 788	62 614	41 951	34 183	42 338	51 182	44 886	32 749	62 048
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
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
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
Fuel Oil	JPY/kL	61 192	61 192	61 944	69 446	64 150	41 106	36 208	42 191	50 336	47 426	32 233	52 470
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
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
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/m ³	713.2	728.6	750.6	762.8	798.6	774.9	755.0	762.4	773.4	780.9	786.9	813.7
Naphtha													
Motor Gasoline (regular)	JPY/L	136	149	149	157	158	131	125	137	150	147	135	162
Aviation Gasoline													
Gasoline Type Jet Fuel													
Kerosene Type Jet Fuel													
Other Kerosene	JPY/L	87.7	98.3	100.7	107.9	108.1	84.8	74.4	88.4	100.6	100.2	89.3	110.9
Gas/Diesel Oil	JPY/L	116	128	129	137	137	112	105	115	129	128	115	142
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
Others													
Other Energy Products													



Korea



Energy balance table of Korea

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production	17		48											2.1	11	1 724	110	281		2.2	2 195	254	Production
Import	3 088	9.5	5 548	1 933	1.6	1 284		1.2	2.7	234	383		26	2 292							12 870		Import
Export			- 11	-2 453	- 514	- 159	- 353	- 44	-1 035	- 54	- 13		- 282								-2 464		Export
International marine bunkers				- 441					- 76	- 365											- 441		International marine bunkers
International aviation bunkers				- 111			- 111														- 111		International aviation bunkers
Stock changes	25		147	11	-1.3	13	6.4	-2.4	-3.0	-3.3	3.9		-3.0	- 16							167		Stock changes
Total primary energy supply	3 130	9.5	5 732	-1 061	- 514	1 139	- 458	- 45	-1 111	- 189	374		- 258	2 278	11	1 724	110	281		2.2	12 216	254	Total primary energy supply
Transfers			413	- 368	89	- 259	13	- 155	86	- 215	2.4	63	8.2								45		Transfers
Total transformation sector	-2 776	282	-5 920	5 652	871	919	545	297	1 924	461	61	130	443	-1 314	- 11	-1 724	- 97	- 131	2 189	234	-3 616	- 186	Total transformation sector
Main activity producers	-1 685	- 81		- 25						-4.8	- 21			-1 271	- 11	-1 724	- 92	- 77	2 077	97	-2 792	- 164	Main activity producers
Autoproducers	- 126	- 96		- 65		- 36							- 29	- 53			-5.7	- 53	111	139	- 150	- 22	Autoproducers
Gas processing				- 11							- 10	-0.7		9.6							-1.6		Gas processing
Petroleum refineries			-6 595	6 381	871	1 452	545	297	1 929	481	121	195	490								- 213		Petroleum refineries
Coal transformation	- 965	459																			- 505		Coal transformation
Other transformation			674	- 627		- 497					- 49	- 64	- 17						0.4	-1.1	46		Other transformation
Losses & own use		- 131		- 230				-0.1	-3.9	-4.7	-3.9	- 204	- 14	-7.8					- 245	-6.5	- 620		Losses & own use
Discrepancy	- 217	-1.2	- 225	82	-2.0	1.6	- 13	-4.3	2.5	- 12	-2.5	64	48	- 42					- 15	1.7	- 417		Discrepancy
Total final consumption	137	159		4 074	444	1 800	87	92	898	41	431	54	228	913			13	150	1 929	232	7 607	68	Total final consumption
Total final energy consumption	137	139		1 870	444		87	92	898	41	249	54	5.5	913			13	150	1 929	232	5 382	68	Total final energy consumption
Industry sector	137	130		184				4.6	46	25	49	54	5.5	310			0.3	93	992	136	1 983	14	Industry sector
Iron and steel	28	121		2.7					0.2		2.5			68				0.8	160	0.2	380		Iron and steel
Chemical & petrochemical	3.0			74				0.3	0.4	8.9	10	54		49				18	196	90	430	0.2	Chemical & petrochemical
Non-metallic minerals	83			20					5.3	8.7	0.7		5.5	24				30	45	0.1	203	0.2	Non-metallic minerals
Other industries	23	9.5		87				4.2	40	7.3	36			169			0.3	45	592	45	970	13	Other industries
Transport sector				1 409	444		68	0.2	769	6.6	122			43				27	13		1 493	27	Transport sector
Domestic air transport				68			68		0.1												68		Domestic air transport
Road				1 321	444				755		122			43				27	2.3		1 395	27	Road
Rail				3.0					3.0											11	14		Rail
Inland waterways				17				0.2	10	6.6											17		Inland waterways
Other transport																							Other transport
Other sector		8.7		277	0.1		19	88	83	9.2	77			559			12	29	924	96	1 906	27	Other sector
Residential		8.7		116				66	11	7.2	31			407			2.6	4.4	267	84	890	7.0	Residential
Commerce and public services				70	0.1		0.4	13	10	1.0	45			152			8.4	25	591	12	858	19	Commerce and public services
Agriculture				18				8.0	9.8	0.5	0.2			0.1			1.3	0.3	54		75	1.6	Agriculture
Non-specified others				72			19	0.5	52	0.5	0.6								11		84		Non-specified others
Non-energy		21		2 204		1 800					183		222								2 225		Non-energy
2020																						2020	
Production	20		41											6.9	14	1 747	90	286		2.2	2 206	247	Production
Import	3 045	7.7	5 636	1 692		1 095		0.4	5.3	189	398		3.6	2 012							12 392		Import
Export			-2.7	-2 582	- 388	- 186	- 450	- 35	-1 140	- 85	- 23		- 275								-2 585		Export
International marine bunkers				- 417					- 64	- 354											- 417		International marine bunkers
International aviation bunkers				- 126			- 126														- 126		International aviation bunkers
Stock changes	37		-5.3	6.4	6.4	- 28	14	5.6	15	0.1	-3.9		-3.3	53				-1.4			89	-1.4	Stock changes
Total primary energy supply	3 101	7.7	5 669	-1 427	- 381	881	- 561	- 29	-1 183	- 249	371		- 275	2 072	14	1 747	90	284		2.2	11 560	246	Total primary energy supply
Transfers			287	- 253	59	- 190	8.7	- 117	72	- 153	6.3	52	10								34		Transfers
Total transformation sector	-2 783	290	-6 039	5 827	748	1 054	632	246	2 007	457	73	187	424	-1 148	- 14	-1 747	- 78	- 129	2 071	235	-3 515	- 174	Total transformation sector
Main activity producers	-1 712	- 77		- 24						-3.0	- 21			-1 093	- 14	-1 747	- 73	- 80	1 961	96	-2 763	- 154	Main activity producers
Autoproducers	- 133	- 92		- 57		- 32							- 25	- 59			-4.9	- 50	110	140	- 146	- 21	Autoproducers
Gas processing				-4.9					-0.2		-4.0	-0.7		4.2							-0.7		Gas processing

Major energy indicators of Korea

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules	
Total																									Total	
Primary energy supply	3 890	6 061	7 811	7 918	8 319	8 489	8 722	8 804	8 949	9 305	9 509	9 599	10 468	10 907	11 031	11 046	11 236	11 414	11 820	11 814	11 805	11 726	11 560	12 216	Primary energy supply	
Production	947	885	1 442	1 463	1 461	1 591	1 604	1 799	1 832	1 784	1 873	1 856	1 882	1 968	1 936	1 825	2 054	2 150	2 150	2 052	1 890	2 021	2 206	2 195	Production	
Import	3 096	6 301	8 587	8 497	8 548	8 632	9 027	8 847	9 424	9 615	10 052	10 150	11 173	11 818	12 034	12 183	12 221	12 552	13 012	13 237	13 542	13 235	12 392	12 870	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	Export	
Final energy consumption	2 436	3 671	4 274	4 366	4 517	4 548	4 586	4 609	4 620	4 710	4 695	4 640	4 996	5 084	5 121	5 213	5 146	5 271	5 391	5 472	5 503	5 402	5 238	5 382	Final energy consumption	
Industry	806	1 223	1 611	1 632	1 640	1 628	1 676	1 635	1 703	1 742	1 780	1 673	1 883	1 995	1 982	2 016	2 008	2 013	2 002	2 028	2 069	1 968	1 910	1 983	Industry	
Transport	610	1 016	1 100	1 147	1 222	1 249	1 259	1 222	1 223	1 265	1 208	1 227	1 254	1 233	1 268	1 314	1 334	1 418	1 462	1 492	1 472	1 535	1 433	1 493	Transport	
Residential	542	403	630	667	737	751	724	771	787	773	787	780	832	843	850	849	799	797	868	895	899	861	874	890	Residential	
Commerce & public services	364	776	721	710	716	731	749	805	747	768	716	774	804	858	844	848	854	842	876	903	891	898	875	859	858	Commerce & public services
Others	114	253	213	211	202	190	178	176	160	162	145	156	169	168	174	179	162	167	155	166	165	164	163	158	Others	
Coal																									Coal	
Primary energy supply	1 063	1 114	1 690	1 824	1 964	2 027	2 083	2 070	2 203	2 338	2 614	2 710	3 057	3 349	3 217	3 250	3 409	3 373	3 401	3 449	3 363	3 342	3 101	3 130	Primary energy supply	
Production	317	103	152	140	62	61	59	53	53	56	53	49	40	40	39	34	33	33	32	29	22	21	20	17	Production	
Import	658	1 179	1 572	1 587	1 879	1 944	2 086	1 956	2 102	2 266	2 555	2 627	3 036	3 316	3 175	3 229	3 318	3 385	3 397	3 410	3 332	3 343	3 045	3 088	Import	
Export																									Export	
Transformation sector	-991	-912	-1 593	-1 632	-1 736	-1 795	-1 967	-2 034	-2 098	-2 138	-2 396	-2 615	-2 851	-3 082	-3 062	-3 016	-3 120	-3 199	-3 187	-3 303	-3 305	-3 179	-2 783	-2 776	Transformation sector	
Power generation	-164	-388	-1 006	-1 052	-1 160	-1 204	-1 362	-1 421	-1 483	-1 488	-1 688	-1 986	-2 051	-2 144	-2 131	-2 104	-2 085	-2 181	-2 178	-2 313	-2 307	-2 200	-1 845	-1 811	Power generation	
Final energy consumption	113	200	267	310	247	215	195	174	195	205	220	175	189	222	194	201	187	201	211	170	183	157	150	137	Final energy consumption	
Industry	111	200	267	310	247	215	195	174	195	205	220	175	189	222	194	201	187	201	211	170	183	157	150	137	Industry	
Transport																									Transport	
Residential																									Residential	
Commerce & public services																									Commerce & public services	
Others	1.1																								Others	
Coal products																									Coal products	
Primary energy supply					8.0	12	19	9.3	8.5	16	21	7.5	18	12	11	11	12	11	10	10	9.4	8.9	7.7	9.5	Primary energy supply	
Production																									Production	
Import					8.0	12	19	9.3	8.5	16	21	7.5	18	12	11	11	12	11	10	10	9.4	8.9	7.7	9.5	Import	
Export																									Export	
Transformation sector	439	187	202	206	185	190	192	175	198	229	262	237	293	303	309	350	343	371	308	311	329	303	290	282	Transformation sector	
Power generation	-86	-108	-93	-93	-92	-97	-108	-100	-99	-109	-117	-97	-144	-183	-155	-139	-183	-179	-176	-181	-182	-176	-169	-177	Power generation	
Final energy consumption	378	110	113	121	159	167	176	150	173	154	180	151	194	185	189	195	192	228	160	171	191	150	136	139	Final energy consumption	
Industry	16	53	89	97	135	143	149	110	127	112	136	114	158	150	155	159	161	201	137	151	172	137	127	130	Industry	
Transport																									Transport	
Residential	362	57	24	24	23	23	28	40	46	42	44	37	36	35	34	36	30	27	23	21	19	12	10	8.7	Residential	
Commerce & public services																									Commerce & public services	
Others																									Others	
Crude oil & NGL																									Crude oil & NGL	
Primary energy supply	1 810	3 764	5 296	5 060	4 648	4 563	4 942	4 974	5 101	5 111	5 026	4 815	5 066	5 360	5 464	5 312	5 380	5 903	6 218	6 407	6 504	6 084	5 669	5 732	Primary energy supply	
Production																										

Major economic indicators of Korea

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ^{*1}	42.87	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	Population (millions) ^{*1}
Gross domestic product ^{*3}																									Gross domestic product ^{*3}
Real term, billion USD (constant 2015)	401	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	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	543	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	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	283	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	Nominal, billion USD (current)
GDP per capita ^{*3}																									GDP per capita ^{*3}
Real term (constant 2015 USD)	9 365	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	12 656	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	6 610	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	Nominal (current USD)
Nominal GDP & its components (billions of current KRW) ^{*1}																									Nominal GDP & its components (billions of current KRW) ^{*1}
Gross domestic product	200 556	436 989	651 634	707 021	784 741	837 365	908 439	957 448	1 005 602	1 089 660	1 154 217	1 205 348	1 322 611	1 388 937	1 440 111	1 500 819	1 562 929	1 658 020	1 740 780	1 835 698	1 898 193	1 924 498	1 940 726	2 071 658	Gross domestic product
Households and NPISHs final consumption expenditure	100 738	227 070	355 141	391 692	440 207	452 737	468 701	500 911	533 278	571 810	606 356	622 809	667 061	711 119	738 312	758 005	780 463	804 812	834 805	872 791	911 576	935 934	900 321	955 780	Households and NPISHs final consumption expenditure
General government final consumption expenditure	22 008	43 871	71 028	83 111	92 142	101 757	112 531	123 149	134 455	146 482	162 151	176 712	187 875	199 627	211 493	224 771	237 959	250 088	265 295	283 046	304 693	328 663	350 094	376 219	General government final consumption expenditure
Gross fixed capital formation	74 874	162 201	206 895	217 426	238 401	261 797	281 906	291 800	306 642	328 572	357 760	372 056	399 786	418 825	425 614	436 628	452 590	481 002	517 350	578 457	576 587	579 002	607 455	654 034	Gross fixed capital formation
Stock change	4 452	8 004	7 451	6 013	5 598	8 502	13 787	19 449	25 139	32 079	30 829	-17 684	30 752	43 961	25 381	11 897	13 014	8 600	7 368	14 255	21 100	27 117	11 338	10 760	Stock change
Exports of goods and services	50 128	112 412	221 159	224 746	233 639	262 915	333 891	337 817	358 260	407 448	549 891	544 641	622 999	740 828	779 015	769 801	747 571	712 776	698 621	751 429	791 799	755 863	705 640	870 832	Exports of goods and services
Imports of goods and services	51 655	116 850	209 540	215 189	224 281	249 340	302 159	316 357	352 217	397 534	552 575	493 569	585 862	725 422	739 703	700 283	668 668	599 257	582 659	664 279	707 562	702 082	634 122	796 694	Imports of goods and services
Real GDP & its components (billions of 2015 KRW) ^{*1}																									Real GDP & its components (billions of 2015 KRW) ^{*1}
Gross Domestic Product	454 146	683 940	903 551	947 395	1 020 582	1 052 703	1 107 416	1 155 130	1 215 940	1 286 459	1 325 219	1 335 724	1 426 618	1 479 198	1 514 737	1 562 674	1 612 718	1 658 020	1 706 880	1 760 812	1 812 005	1 852 666	1 839 523	1 915 778	Gross Domestic Product
Households and NPISHs final consumption expenditure	279 924	422 297	511 607	541 244	589 833	587 600	589 947	617 417	647 804	682 032	693 103	694 615	725 119	746 491	758 839	772 014	787 410	804 812	825 676	848 589	875 578	894 075	850 957	882 460	Households and NPISHs final consumption expenditure
General government final consumption expenditure	77 174	96 152	115 735	123 200	131 262	137 910	144 259	151 963	163 566	174 245	182 641	194 787	205 739	211 013	220 490	231 036	240 901	250 088	261 162	271 429	285 893	304 190	319 678	337 685	General government final consumption expenditure
Gross fixed capital formation	175 602	286 337	306 030	312 806	336 087	353 958	363 826	369 229	383 896	403 309	400 827	402 485	425 635	431 261	430 686	442 806	456 558	481 002	512 635	562 777	550 387	538 654	557 727	573 144	Gross fixed capital formation
Stock change	6 575	5 370	10 058	8 346	9 436	7 449	13 828	17 797	26 174	26 877	30 420	-8 059	17 171	32 599	27 990	5 280	6 203	8 600	7 662	13 945	18 509	20 531	11 046	8 253	Stock change
Exports of goods and services	55 318	111 243	218 958	215 018	242 568	275 508	333 378	359 712	403 039	453 838	488 340	486 109	549 438	634 146	670 885	696 514	711 110	712 776	729 685	747 784	777 515	779 368	766 066	849 147	Exports of goods and services
Imports of goods and services	84 743	172 055	231 805	223 779	257 103	284 045	318 370	343 052	385 837	429 758	443 781	413 126	485 464	555 914	570 188	579 538	586 859	599 257	630 267	686 089	697 841	684 517	663 103	729 825	Imports of goods and services
Sectoral shares of Real GDP (%) ^{*1}																									Sectoral shares of Real GDP (%) ^{*1}
Agriculture, Fishery and Forestry	4.9	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	Agriculture, Fishery and Forestry
Industry	31.2	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	Industry
Services, etc.	53.4	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	Services, etc.
Industrial production index (2010=100) ^{*2}	40.0	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	N.A.	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	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	Exports, f.o.b.
Imports, c.i.f.	69.8	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	Imports, c.i.f.
Balance of payments (billions of current USD) ^{*2}																									Balance of payments (billions of current USD) ^{*2}
Trade balance	-3.7	-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	N.A.	Trade balance
Current account	-2.8	-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	Current account
Overall balance	-0.5	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	N.A.	Overall balance
Foreign exchange rate (KRW/USD) ^{*1}	707.77	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	Foreign exchange rate (KRW/USD) ^{*1}
PPP conversion factor, GDP (KRW/USD) ^{*1}	559.92	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	PPP conversion factor, GDP (KRW/USD) ^{*1}
Price Indices																									Price Indices
GDP Deflator (2015=100) ^{*3}	44.2	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	GDP Deflator (2015=100) ^{*3}
Producer Price Index (2010=100) ^{*2}	56.4	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	N.A.	Producer Price Index (2010=100) ^{*2}
Consumer Price Index (2010=100) ^{*2}	44.6	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	N.A.	Consumer Price Index (2010=100) ^{*2}
Growth rate (%) ^{*3}																									Growth rate (%) ^{*3}
Real GDP	9.9	9.6	9.1	4.9	7.7	3.1	5.2	4.3	5.3	5.8	3.0	0.8	6.8	3.7	2.4	3.2	3.2	2.8	2.9	3.2	2.9	2.2	-0.7	4.1	Real GDP
Population	1.0	1.0	0.8	0.8	0.6	0.5	0.4	0.2	0.5	0.5	0.8	0.5	0.5	0.8	0.5	0.5	0.6	0.5	0.4	0.3	0.4	0.3	0.1	-0.2	Population
Price																									Price
Producer prices	4.2	4.7	2.1	-0.5	-0.3	2.2	6.1	2.1	0.9	1.4	8.6	-0.2	3.8	6.7	0.7	-1.6	-0.5	-4.0	-1.8	3.5	1.9	0.0	-0.5	N.A.	Producer prices
Consumer prices	8.6	4.5	2.3	4.1	2.8	3.5	3.6	2.8	2.2	2.5	4.7														

Energy prices in Korea

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
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
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
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
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
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
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
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
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
Compressed Natural Gas													
Electricity													

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
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
Fuel Oil	KRW/L	710.49	918	1 054	919	853	542	443	565	659	678.23	518.28	688.66
White Spirit SBP	KRW/L			829	782								
Lubricants													
Bitumen	KRW/kg	592.50	723	796	717	611	380	293	404	533	547.31	427.08	610.41
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
Liquefied Natural Gas													
Compressed Natural Gas													
Electricity													

Energy prices in Korea

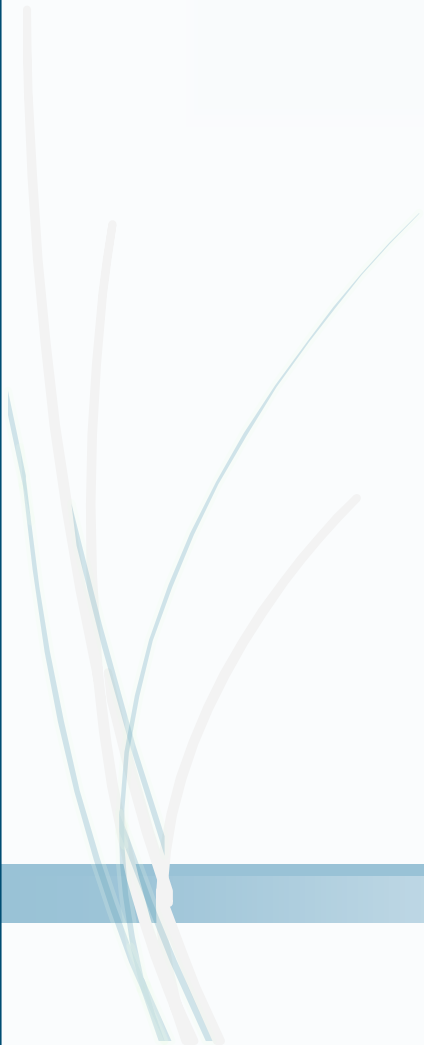
CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
Fuel Oil	KRW/L	772.27	987	1 089	935	886	604	524	620	724	733.62	570.06	731.58
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
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
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
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
Others													
Other Energy Products													

* KRW/m³ in 2011



Malaysia



Energy balance table of Malaysia

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products								Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/diesel oil	Fuel oil	LPG	Refinery gas	Other products									
2021																						2021
Production	82		1 063										2 617	112		7.7	52			3 935	172	Production
Import	852		278	767	466		18	0.1	239	1.1	15		28	337				0.1		2 235		Import
Export			- 374	- 806	- 327		- 64	-1.8	- 223	- 25	- 33		- 132	-1 188			- 10	-3.5		-2 382	- 10	Export
International marine bunkers				- 27					-44	- 23										- 27		International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	24		33	124	19		-9.3	0.3	102	0.8	4.0		7.5				3.0			184	3.0	Stock changes
Total primary energy supply	958		1 000	58	159		- 55	-1.3	113	- 46	- 15		- 97	1 767	112		7.7	45	-3.4	3 944	165	Total primary energy supply
Transfers				51							51									51		Transfers
Total transformation sector	- 901		-1 002	911	283		100	2.2	251	62	78	6.5	129	- 889	- 112		-7.7	- 10	643	-1 368	- 130	Total transformation sector
Main activity producers	- 901			- 10					-9.9	-0.3				- 416	- 112		-7.7	-5.5	620	- 832	- 125	Main activity producers
Autoproducers				-1.5					-1.5					- 50			-4.9	22		- 34	-5.0	Autoproducers
Gas processing				24				1.8	4.9		4.2			- 423						- 400		Gas processing
Petroleum refineries			-1 002	899	283		100	0.4	258	63	73	6.5	116							- 103		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																						Other transformation
Losses & own use			-0.7	-72									-6.5	-0.8	- 49				- 66	- 122		Losses & own use
Discrepancy	1.5		2.8	- 12	-1.1		-3.2	1.6	4.4	-2.3	-3.5		-8.1	- 83					- 14	- 106		Discrepancy
Total final consumption	58			1 001	441		41	2.5	368	14	110		23	746			35	559		2 399	35	Total final consumption
Total final energy consumption	58			927	441		41	2.5	368	14	60			365			35	559		1 944	35	Total final energy consumption
Industry sector	58			105	3.9			2.3	79	13	6.5			363				279		804		Industry sector
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-metallic minerals																						Non-metallic minerals
Other industries	58			105	3.9			2.3	79	13	6.5			363				279		804		Other industries
Transport sector				720	435		41		244					1.5			35	1.3		758	35	Transport sector
Domestic air transport				41			41													41		Domestic air transport
Road				679	435				244					1.5			35			715	35	Road
Rail																		1.3		1.3		Rail
Inland waterways																						Inland waterways
Other transport																						Other transport
Other sector				102	2.4			0.1	45	1.4	53			0.5				280		382		Other sector
Residential				42				0.1			41							133		175		Residential
Commerce and public services				19					6.2	1.4	12			0.5				144		164		Commerce and public services
Agriculture				16					16									2.5		18		Agriculture
Non-specified others				26	2.4				23											26		Non-specified others
Non-energy				74							51		23	381						455		Non-energy
2020																						2020
Production	79		1 205										2 322	98		7.4	54			3 766	160	Production
Import	931		295	527	289		32		118	9.0	23		56	354				0.1		2 107		Import
Export			- 444	- 443	- 74		- 49	-1.7	- 162	- 19	- 11		- 128	-1 144			- 12	-5.7		-2 050	- 12	Export
International marine bunkers				- 23					-5.5	- 17										- 23		International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	30		-1.0	54	38		- 35	0.3	24	-7.7	15		19				7.4			90	7.4	Stock changes
Total primary energy supply	1 039		1 055	115	253		- 52	-1.3	- 25	- 35	27		- 52	1 532	98		7.4	49	-5.6	3 890	155	Total primary energy supply
Transfers				- 83	84						84									0.9		Transfers
Total transformation sector	- 982		- 965	880	213		103	2.0	380	50	30	6.5	95	- 799	- 98		-7.4	- 16	627	-1 361	- 122	Total transformation sector
Main activity producers	- 982			-6.9					-6.4	-0.5				- 412	- 98		-7.4	-8.1	604	- 910	- 114	Main activity producers
Autoproducers				-2.4					-2.4					- 59			-0.1	-7.8	23	- 47	-7.9	Autoproducers
Gas processing				21				1.5	3.9		2.1		13	- 328						- 307		Gas processing
Petroleum refineries			- 965	869	213		103	0.5	385	50	28	6.5	82							- 96		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																						Other transformation
Losses & own use				-7.3									-6.5	-0.7	- 37				- 49	- 93		Losses & own use
Discrepancy	-1.4		-7.2	- 11	2.4		-0.9	0.7	1.8	-1.3	2.3		- 16						- 25	- 44		Discrepancy
Total final consumption	56			1 060	468		50	1.3	357	14	143		26	696			33	548		2 393	33	Total final consumption
Total final energy consumption	56			950	468		50	1.3	357	14	60			311			33	548		1 898	33	Total final energy consumption
Industry sector	56			110	4.2			1.3	84	12	7.5			308				267		741		Industry sector
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-metallic minerals																						Non-metallic minerals
Other industries	56			110	4.2			1.3	84	12	7.5			308				267		741		Other industries
Transport sector				744	462		50		232					2.7			33	1.4		781	33	Transport sector
Domestic air transport				50			50													50		Domestic air transport
Road				694	462				232					2.7			33			730	33	Road
Rail																		1.4		1.4		Rail
Inland waterways																						Inland waterways
Other transport																						Other transport
Other sector				97	2.4			0.1	40	1.8	52			0.6				279		376		Other sector
Residential				40				0.1			40							131		171		Residential
Commerce and public services				23					9.0	1.7	12			0.6				146		169		Commerce and public services
Agriculture				11					11									2.5		13		Agriculture
Non-specified others				23	2.4				21											23		Non-specified others
Non-energy				109							84		26	385						494		Non-energy

Major energy indicators of Malaysia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total	857	1 391	1 999	2 110	2 187	2 421	2 615	2 745	2 708	2 860	3 073	2 958	2 848	3 184	3 386	4 183	3 777	3 748	3 905	3 948	4 021	4 137	3 890	3 944	Total
Primary energy supply	1 948	2 605	3 170	3 201	3 339	3 478	3 780	3 926	3 702	3 706	3 853	3 670	3 493	3 608	3 588	3 771	3 906	4 087	4 176	4 302	4 114	4 173	3 766	3 935	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	2 659	2 010	1 946	2 101	2 078	2 376	2 331	2 107	2 235	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	Import
Export	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	1 944	Export
Final energy consumption	221	337	478	496	538	564	624	652	638	689	678	599	541	507	583	565	551	585	671	731	797	792	741	804	Final energy consumption
Industry	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	Industry
Transport	31		69	72	78	79	86	91	99	101	112	106	111	116	119	126	125	132	138	157	140	140	171	175	Transport
Residential	37	107	93	97	106	105	113	124	128	158	147	159	180	177	177	184	187	186	200	170	186	195	169	164	Residential
Commerce & public services		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	Commerce & public services
Others																									Others
Coal	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	Coal
Primary energy supply	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	Primary energy supply
Production	60	66	81	112	144	221	314	277	334	353	407	382	547	558	595	582	574	672	716	803	868	822	931	852	Production
Import	-1.2	-2.1	-0.8	-1.4	-1.5	-1.5	-3.6	-1.9	-3.0	-1.1	-8.6	-5.0	-2.6	-5.9	-1.0	-1.4	-4.8	-6.5	-0.6	-1.6		-0.1			Import
Export	-34	-40	-63	-83	-107	-172	-223	-232	-250	-313	-338	-377	-542	-545	-592	-566	-571	-654	-710	-794	-857	-810	-982	-901	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	Transformation sector
Power generation	21	30	41	41	45	51	55	56	56	57	72	68	76	74	73	64	72	74	75	76	76	71	56	58	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	Final energy consumption
Industry																									Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Coal products																									Coal 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	420	811	947	1 069	1 029	1 145	1 133	1 120	1 099	1 166	1 226	1 142	1 046	1 125	1 257	1 196	1 181	1 086	1 237	1 244	1 165	1 165	1 055	1 000	Crude oil & NGL
Primary energy supply	1 282	1 549	1 353	1 430	1 522	1 583	1 614	1 568	1 483	1 484	1 489	1 413	1 443	1 288	1 304	1 246	1 289	1 407	1 475	1 456	1 424	1 339	1 205	1 063	Primary energy supply
Production	94	89	323	383	306	336	343	342	340	399	359	244	340	390	419	381	411	351	456	428	388	435	295	278	Production
Import	-961	-830	-722	-754	-758	-785	-806	-795	-728	-710	-628	-513	-723	-482	-506	-453	-498	-675	-697	-627	-629	-523	-444	-374	Import
Export	-418	-710	-928	-998	-958	-1 066	-1 071	-1 025	-1 046	-1 116	-1 123	-1 109	-951	-1 037	-1 158	-1 117	-1 108	-1 030	-1 152	-1 144	-1 071	-1 058	-965	-1 002	Export
Transformation sector	-418	-710	-928	-998	-958	-1 066	-1 071	-1 025	-1 046	-1 116	-1 123	-1 109	-95												

Major economic indicators of Malaysia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹⁾	17.52	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	Population (millions) ¹⁾
Gross domestic product ³⁾																									Gross domestic product ³⁾
Real term, billion USD (constant 2015)	75	117	148	149	157	166	177	187	197	210	220	217	233	245	258	271	287	301	315	333	349	365	344	355	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	186	292	369	371	391	414	442	465	491	522	548	539	579	610	643	674	714	750	784	829	869	908	858	884	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	44	89	94	93	101	110	125	144	163	194	231	202	255	298	314	323	338	301	301	319	359	365	337	373	Nominal, billion USD (current)
GDP per capita ³⁾																									GDP per capita ³⁾
Real term (constant 2015 USD)	4 260	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	10 608	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	2 513	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	Nominal (current USD)
Nominal GDP & its components (billions of current MYR) ¹⁾																									Nominal GDP & its components (billions of current MYR) ¹⁾
Gross domestic product	119	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	Gross domestic product
Households and NPISHs final consumption expenditure	62	107	156	163	172	187	209	240	265	300	344	348	395	437	482	528	580	635	685	760	831	904	863	895	Households and NPISHs final consumption expenditure
General government final consumption expenditure	16	28	36	42	50	54	60	62	67	77	89	93	103	121	134	140	147	154	157	167	173	176	185	196	General government final consumption expenditure
Gross fixed capital formation	39	97	90	89	90	94	99	121	131	149	158	157	184	202	246	270	287	304	319	344	350	347	297	298	Gross fixed capital formation
Stock change	-0.8	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	Stock change
Exports of goods and services	89	209	427	389	415	448	547	614	670	706	766	652	714	777	770	770	816	817	834	961	993	987	873	1 064	Exports of goods and services
Imports of goods and services	86	218	359	328	349	365	450	494	539	574	594	507	583	635	666	683	714	729	751	867	895	874	783	954	Imports of goods and services
Real GDP & its components (billions of 2015 MYR) ¹⁾																									Real GDP & its components (billions of 2015 MYR) ¹⁾
Gross Domestic Product	291	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	137	203	236	244	253	274	300	328	350	386	420	422	451	482	522	560	599	635	672	719	776	836	801	815	Households and NPISHs final consumption expenditure
General government final consumption expenditure	31	46	53	61	68	74	80	85	90	96	103	108	111	127	133	141	147	154	156	164	170	173	181	191	General government final consumption expenditure
Gross fixed capital formation	78	179	142	139	140	144	149	157	167	185	189	185	205	218	259	280	294	304	312	331	336	329	281	279	Gross fixed capital formation
Stock change	5.3	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	Stock change
Exports of goods and services	163	344	523	487	514	540	627	679	725	757	769	685	756	788	774	776	815	817	828	900	917	908	830	958	Exports of goods and services
Imports of goods and services	135	321	398	365	388	405	485	528	571	605	620	541	625	664	683	695	723	729	739	815	827	807	743	875	Imports of goods and services
Sectoral shares of Real GDP (%) ¹⁾																									Sectoral shares of Real GDP (%) ¹⁾
Agriculture, Fishery and Forestry	20.2	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	Agriculture, Fishery and Forestry
Industry	48.5	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	Industry
Services, etc.	31.6	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	Services, etc.
Industrial production index (2010=100) ²⁾	31.6	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	Industrial production index (2010=100) ²⁾
External trade (billions of current USD) ¹⁾																									External trade (billions of current USD) ¹⁾
Exports, f.o.b.	29.5	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	Exports, f.o.b.
Imports, c.i.f.	29.3	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²⁾																									Balance of payments (billions of current USD) ²⁾
Trade balance	2.5	-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	Trade balance
Current account	-0.9	-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	Current account
Overall balance	0.9	-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	Overall balance
Foreign exchange rate (MYR/USD) ¹⁾	2.70	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	Foreign exchange rate (MYR/USD) ¹⁾
PPP conversion factor, GDP (MYR/USD) ¹⁾	0.97	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	PPP conversion factor, GDP (MYR/USD) ¹⁾
Price Indices																									Price Indices
GDP Deflator (2015=100) ³⁾	40.9	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	GDP Deflator (2015=100) ³⁾
Producer Price Index (2010=100) ²⁾	50.4	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.	Producer Price Index (2010=100) ²⁾
Consumer Price Index (2010=100) ²⁾	56.8	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	Consumer Price Index (2010=100) ²⁾
Growth rate (%) ³⁾																									Growth rate (%) ³⁾
Real GDP	9.0	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	Real GDP
Population	2.9	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	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.2	1.2	1.1	Population
Price																									Price
Producer prices	0.7	5.5	3.1	0.5	-0.8	4.6	7.0	6.9	6.7	5.5	10.2	-7.3	5.6	12.3	-0.5	-2.7	1.5	-7.5	-1.1	6.7	-1.1	N.A.	N.A.	N.A.	Producer prices
Consumer prices	2.6	3.5	1.5	1.4	1.8	1.1	1.4	3.0	3.6	2.0	5.4	0.6	1.6	3.2	1.7	2.1	3.1	2.1	2.1	3.9	0.9	0.7	-1.1	2.5	Consumer prices

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"
: MYR means Malaysian Ringgit, 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)

Energy prices in Malaysia

IMPORT PRICES

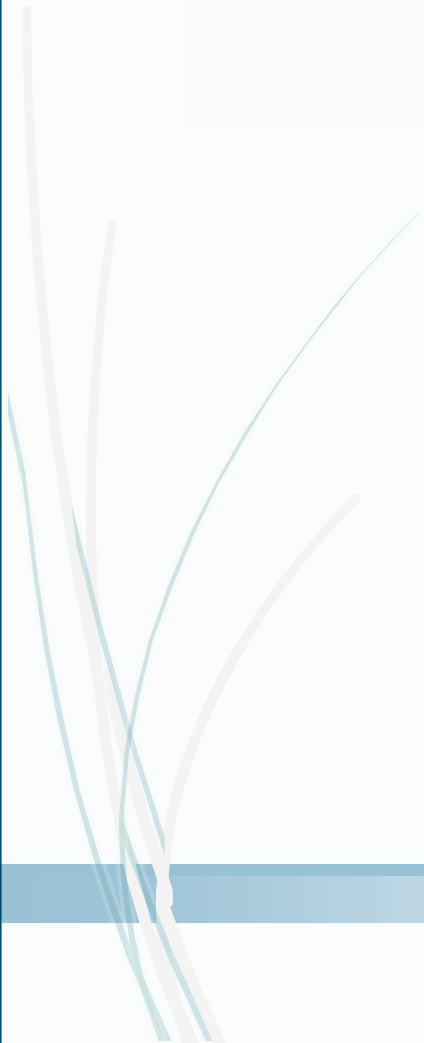
	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	MYR / US Dollar	3.22	3.06	3.09	3.15	3.27	3.91	4.15	4.30	4.04	4.14	4.20	4.14
Coal and Coal Products													
Coking Coal	MYR/tonne	1 485										481	1 493
Anthracite	MYR/tonne	1 295										557	699
Other bituminous coal	MYR/tonne	295										243	452
Sub-bituminous Coal	MYR/tonne							248	332	336	383	877	1 090
Lignite	MYR/tonne	865											
Peat												1 699	1 752
Patent Fuel													
Coke													
Coal Tar													
BKB/PB													
Oil and Oil Products													
Crude Oil	MYR/tonne	2 029						1 184	1 627	2 169	1 976	1 551	2 198
Natural Gas Liquids	MYR/tonne	24 510											
Ethane	MYR/tonne	8 114											
LPG	MYR/tonne	3 000								5 708	2 977	2 580	3 478
Naphtha	MYR/tonne	1 963										1 627	2 710
Motor Gasoline	MYR/tonne	2 463								5 708		1 803	2 683
Aviation Gasoline											2 977	1 444	1 307
Gasoline Type Jet Fuel													
Kerosene Type Jet Fuel	MYR/tonne	7 380								2 806	2 662	1 452	2 453
Other Kerosene										2 772	5 091	1 626	3 778
Gas/Diesel Oil	MYR/tonne	2 240								2 469	2 424	1 667	2 134
Fuel Oil	MYR/tonne	1 625								1 580	1 729	1 330	1 649
White Spirit SBP													
Lubricants	MYR/tonne	13 678								5 162	5 162	5 812	6 361
Bitumen	MYR/tonne	1 471										1 256	1 687
Paraffin Waxes	MYR/tonne	7 569										3 316	5 888
Petroleum Coke	MYR/tonne	2 910										2 957	5 664
Natural Gas													
Natural Gas	MYR/tonne	492						1 377	1 525	1 436	1 526	1 566	1 585
Liquefied Natural Gas	MYR/tonne							1 540	1 844	2 258	2 222	1 860	1 716
Compressed Natural Gas													
Electricity													

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	MYR / US Dollar	3.22	3.06	3.09	3.15	3.27	3.91	4.15	4.30	4.04	4.14	4.20	4.14
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	MYR/L	1.85											1.9
Naphtha													
Motor Gasoline	MYR/L	1.90											
RON97	MYR/L								2.43	2.55	2.50	2.58	
RON95	MYR/L								2.15	2.22	2.04	2.08	
Aviation Gasoline													
Gasoline Type Jet Fuel													
Kerosene Type Jet Fuel													
Other Kerosene													
Gas/Diesel Oil	MYR/L	1.75							2.09	2.20	2.17	2.18	
Fuel Oil													
White Spirit SBP													
Lubricants													
Bitumen													
Paraffin Waxes													
Petroleum Coke													
Natural Gas													
Natural Gas													
Liquefied Natural Gas													
Compressed Natural Gas													
Electricity													
Industrial	MYR/kWh	0.2546											
Commercial	MYR/kWh	0.3284											
Residential	MYR/kWh	0.2726											
Others													



Mexico



Energy balance table of Mexico

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																							
Production	129		4 139											1 327	118	130	231	368		6 442	700	Production	
Import	153	38	22	1 992	926	14	90		410		413		139	1 695				6.3		3 906		Import	
Export	-0.1		-2 352	- 384		- 12			- 12	- 360	-0.2			-0.3				-9.7		-2 745		Export	
International marine bunkers				- 18					- 16	-2.1										- 18		International marine bunkers	
International aviation bunkers				- 125	-0.4		- 125													- 125		International aviation bunkers	
Stock changes	-0.9		- 13	12	7.4		-1.3		-3.7	8.3	0.6		0.9	13						11		Stock changes	
Total primary energy supply	281	38	1 795	1 478	933	2.6	- 36		379	- 354	413		140	3 034	118	130	231	368	-3.4	7 470	700	Total primary energy supply	
Transfers			- 137	161		- 14					118		56							23		Transfers	
Total transformation sector	- 222	10.0	-1 693	1 145	425	68	58		216	185	- 13	130	76	-1 779	- 118	- 130	- 214	- 75	1 367	-1 709	- 390	Total transformation sector	
Main activity producers	- 185			- 388					- 30	- 358				-1 353	- 116	- 130	- 167	- 28	1 151	-1 217	- 305	Main activity producers	
Autoproducers		-1.5		- 55					-8.4	- 15			- 32	- 434	-2.8		- 47	- 47	216	- 371	- 85	Autoproducers	
Gas processing				- 25							- 25			8.6						- 17		Gas processing	
Petroleum refineries			-1 696	1 616	425	70	58		254	558	13	130	108							- 80		Petroleum refineries	
Coal transformation	- 37	11																		- 25		Coal transformation	
Other transformation			2.7	-2.2		-2.2														0.5		Other transformation	
Losses & own use		- 13		- 160						- 26		- 130	-3.7	- 528					- 191	- 892		Losses & own use	
Discrepancy	- 35	-7.7	35	- 302	- 246	- 12	- 22		- 153	205	- 44		- 31	- 345					- 111	- 765		Discrepancy	
Total final consumption	24	28		2 321	1 113	44			441	9.9	475		238	383			17	293	1 062	4 127	310	Total final consumption	
Total final energy consumption	24	25		2 161	1 113	0.9			441	9.9	472		124	376			17	293	1 062	3 958	310	Total final energy consumption	
Industry sector	24	25		226		0.9			48	8.3	45		124	339			1.3	47	617	1 279	48	Industry sector	
Iron and steel		25		3.7					0.8	0.7	0.4		1.8	114					18	161		Iron and steel	
Chemical & petrochemical				11		0.9			5.5	1.4	0.9		2.7	60					19	91		Chemical & petrochemical	
Non-metallic minerals	5.1			111					0.2	1.1	0.1		110	39					42	198		Non-metallic minerals	
Other industries	19			99					41	5.0	43		9.7	126			1.3	47	538	830	48	Other industries	
Transport sector				1 502	1 113				317	1.6	71			1.6					5.7	1 510		Transport sector	
Domestic air transport				0.6	0.6															0.6		Domestic air transport	
Road				1 471	1 112				288		71			1.6						1 473		Road	
Rail				15					15										5.7	21		Rail	
Inland waterways				16					14	1.6										16		Inland waterways	
Other transport																						Other transport	
Other sector				433					77		357			36			16	246	439	1 170	261	Other sector	
Residential				279							279			25			9.2	246	250	809	255	Residential	
Commerce and public services				74					1.9		72			11			6.6		65	156	6.6	Commerce and public services	
Agriculture				80					75		5.1								49	129		Agriculture	
Non-specified others																			76	76		Non-specified others	
Non-energy		2.4		160		43					2.3		114	7.0						169		Non-energy	
2020																							
Production	184		4 099											1 309	97	123	225	367		6 404	688	Production	
Import	149	29	18	1 846	864	19	54		400	19	372		118	1 629				36		3 707		Import	
Export	-0.1		-2 590	- 306		- 21			- 33	- 250	-1.2			-0.3				- 21		-2 917		Export	
International marine bunkers				-6.6					-5.8	-0.8										-6.6		International marine bunkers	
International aviation bunkers				- 79	-0.4		- 78													- 79		International aviation bunkers	
Stock changes	7.2		72	- 27	- 13		-0.6		0.5	- 16	0.7		1.4	6.9						58		Stock changes	
Total primary energy supply	340	29	1 599	1 428	851	-1.8	- 25		361	- 248	371		119	2 945	97	123	225	367	14	7 167	688	Total primary energy supply	
Transfers			- 166	194		- 14					136		73							28		Transfers	
Total transformation sector	- 231	15	-1 427	903	358	76	36		239	39	- 21	104	72	-1 285	- 97	- 123	- 209	- 80	1 144	-1 389	- 384	Total transformation sector	
Main activity producers	- 184			- 382					- 30	- 352				- 977	- 94	- 123	- 163		903	-1 020	- 257	Main activity producers	
Autoproducers		-2.6		- 54					-4.5	- 12			- 37	- 318	-2.9		- 46	- 80	240	- 263	- 128	Autoproducers	
Gas processing				- 29							- 29			9.8						- 19		Gas processing	
Petroleum refineries			-1 430	1 370	358	79	36		274	403	8.1	104	109							- 60		Petroleum refineries	
Coal transformation	- 46	18																		- 28		Coal transformation	
Other transformation			2.9	-2.4		-2.4														0.5		Other transformation	
Losses & own use		- 15		- 131						- 24		- 104	-3.6	- 552					- 166	- 864		Losses & own use	
Discrepancy	- 34	0.9	-5.4	- 35	- 100	- 18	- 10		- 124	243	-3.9		- 21	- 668			- 16		88	- 669	- 16	Discrepancy	
Total final consumption	76	30		2 359	1 108	42			477	9.8	483		240	439			16	271	1 080	4 272	287	Total final consumption	
Total final energy consumption	76	27		2 190	1 108	0.9			477	9.8	480		114	428			16	271	1 080	4 089	287	Total final energy consumption	
Industry sector	76	27		224		0.9			55	7.8	46		114	395			1.3	53	631	1 406	54	Industry sector	
Iron and steel		27		3.3					0.7	0.7	0.3		1.6	134					19	183		Iron and steel	
Chemical & petrochemical				11		0.9			5.6	1.2	0.8		2.6	117					30	159		Chemical & petrochemical	
Non-metallic minerals	2.2			101					0.3	1.0	0.1		99	37					35	175		Non-metallic minerals	
Other industries	74			108					48	4.9	45		11	107			1.3	53	546	890	54	Other industries	
Transport sector				1 527	1 108				344	2.0	72			1.6					3.4	1 532		Transport sector	
Domestic air transport				0.5	0.5															0.5		Domestic air transport	
Road				1 492	1 108				312		72			1.6									

Major energy indicators of Mexico

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules	
Total																									Total	
Primary energy supply	5 179	5 518	6 315	6 501	6 570	7 040	7 169	7 561	7 685	7 653	7 697	7 532	7 475	7 827	8 027	8 035	7 879	7 741	7 742	7 565	7 735	7 680	7 167	7 470	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	7 556	6 928	6 698	6 298	6 404	6 442	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	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	Export	
Final energy consumption	3 108	3 268	3 683	3 598	3 679	3 838	4 025	4 190	4 402	4 489	4 633	4 387	4 602	4 751	4 764	4 769	4 705	4 793	4 872	4 928	4 712	4 706	4 089	3 958	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	1 416	1 480	1 468	1 589	1 410	1 404	1 406	1 279	Industry	
Transport	1 185	1 271	1 501	1 534	1 563	1 657	1 747	1 852	1 951	2 062	2 146	2 099	2 139	2 153	2 164	2 141	2 147	2 139	2 217	2 153	2 097	2 136	1 532	1 510	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	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	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	Others	
Coal																									Coal	
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	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	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	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	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	-222	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	-185	Power generation	
Final energy consumption				2.0	12	61	59	78	122	74	111	59	131	171	88	117	68	126	131	44	110	72	71	76	24	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	24	Industry
Transport																									Transport	
Residential																									Residential	
Commerce & public services																									Commerce & public services	
Others																									Others	
Coal products																									Coal 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	Primary energy supply	
Production	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	34	29	38	Production	
Import																									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	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	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	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	25	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	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	Production	

Major economic indicators of Mexico

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	81.72	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	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	621	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	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	1 244	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	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	261	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	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	7 595	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	15 218	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	3 197	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	Nominal (current USD)
Nominal GDP & its components (billions of current MXN) ¹																									Nominal GDP & its components (billions of current MXN) ¹
Gross domestic product	735	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	Gross domestic product
Households and NPISHs final consumption expenditure	514	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	62	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	General government final consumption expenditure
Gross fixed capital formation	132	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	Gross fixed capital formation
Stock change	39	107	98	64	107	104	145	90	136	135	116	93	162	148	165	202	153	164	165	178	164	135	- 29	138	Stock change
Exports of goods and services	137	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	Exports of goods and services
Imports of goods and services	146	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	Imports of goods and services
Real GDP & its components (billions of 2013 MXN) ¹																									Real GDP & its components (billions of 2013 MXN) ¹
Gross Domestic Product	9 159	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	5 779	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	1 300	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	General government final consumption expenditure
Gross fixed capital formation	1 810	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	Gross fixed capital formation
Stock change	90	208	156	103	144	164	214	123	176	161	124	103	172	140	161	202	157	156	146	143	130	102	- 27	89	Stock change
Exports of goods and services	1 349	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	Exports of goods and services
Imports of goods and services	1 132	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																									Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	3.9	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	Agriculture, Fishery and Forestry
Industry	37.2	34.7	36.3	35.7	35.1	35.3	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	28.3	28.5	Industry
Services, etc.	55.7	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	Services, etc.
Industrial production index (2010=100) ²	68.0	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.	Industrial production index (2010=100) ²
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	40.7	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	Exports, f.o.b.
Imports, c.i.f.	43.5	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	-4.4	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	Trade balance
Current account	-7.5	-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	Current account
Overall balance	1.0	-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	Overall balance
Foreign exchange rate (MXN/USD) ¹	2.81	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	Foreign exchange rate (MXN/USD) ¹
PPP conversion factor, GDP (MXN/USD) ¹	1.35	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	PPP conversion factor, GDP (MXN/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2013=100) ³	8.0	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	GDP Deflator (2013=100) ³
Producer Price Index (2010=100) ²	11.9	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.	Producer Price Index (2010=100) ²
Consumer Price Index (2010=100) ²	11.8	26.4	63.3	67.3	70.7	73.9	77.4	80.5	83.4	86.7	91.2	96.0	100.0	103.4	107.7	111.8	116.2	119.4	122.8	130.2	136.6	141.5	146.4	154.7	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP ³	5.2	-6.3	4.9	-0.4	0.0	1.4	3.9	2.3	4.5	2.3	1.1	-5.3	5.1	3.7	3.6	1.4	2.8	3.3	2.6	2.1	2.2	-0.2	-8.0	4.7	Real GDP ³
Population ³	1.9	1.9	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.3	1.4	1.4	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.7	0.6	Population ³
Price ²																									Price ²
Producer prices	21.7	38.6	7.8	5.0	5.1	7.5	8.6	4.7	5.6	4.4	7.1	4.5	4.2	5.2	4.6	1.4	2.7	2.9	5.7	6.9	5.5	N.A.	N.A.	N.A.	Producer prices
Consumer prices	26.7	35.0	9.5	6.4	5.0	4.5	4.7	4.0	3.6	4.0	5.1	5.3	4.2	3.4	4.1	3.8	4.0	2.7	2.8	6.0	4.9	3.6	3.4	5.7	Consumer prices

Source ¹: World Development Indicators, World Bank²: International Financial Statistics, International Monetary Fund³: Calculated from ¹ and ² by ESTO

Note: N.A. means "not available"

: MXN means Mexican Nuevo Peso, USD means United States Dollar

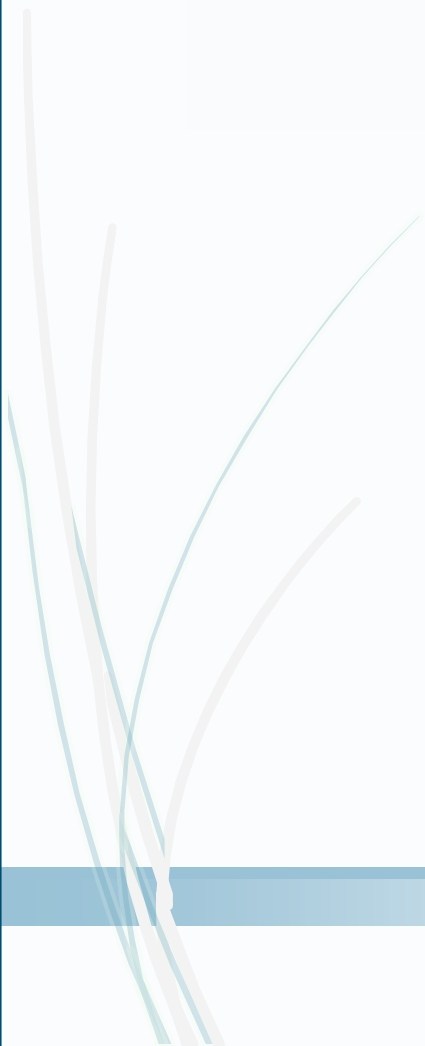
: PPP means Purchasing Power Parity

: 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)



New Zealand



Energy balance table of New Zealand

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production	67		43											143	87		214	39			593	339	Production
Import	37		145	131	51		3.1		61	1.6	1.3		12					2.9			315	2.9	Import
Export	- 35		- 25	-8.8	-1.8		-2.0		-0.2	-4.1	-0.7										- 69		Export
International marine bunkers				-4.5					-3.1	-1.4											-4.5		International marine bunkers
International aviation bunkers				- 13			- 13														- 13		International aviation bunkers
Stock changes	-5.3		9.2	7.9	-1.7		1.5		2.6	0.2			5.4	-3.7							8.2		Stock changes
Total primary energy supply	63		171	112	48		- 10		60	-3.8	0.5		17	139	87		214	42			829	342	Total primary energy supply
Transfers			25	- 23	-7.3		-1.3		-5.5	-0.9	7.2		- 15								1.9		Transfers
Total transformation sector	- 42	4.6	- 189	185	56		24		81	6.6		5.9	12	- 39	- 87		- 207	- 21	161		- 235	- 314	Total transformation sector
Main activity producers	- 24			-0.3					-0.3					- 37	- 87		- 205	-1.9	155		- 200	- 294	Main activity producers
Autoproducers	-0.1	-7.9												-1.5			-2.0	- 19	6.1	1.1	- 24	- 20	Autoproducers
Gas processing																							Gas processing
Petroleum refineries			- 189	185	56		24		81	6.6		5.9	12								-4.1		Petroleum refineries
Coal transformation	- 18	12																			-5.6		Coal transformation
Other transformation																				-1.1		Other transformation	
Losses & own use	-0.3	-2.7		-5.9								-5.9		-6.6					- 18	-1.1	- 33		Losses & own use
Discrepancy	-0.6		-7.1	1.5	1.0		-0.8		0.8		1.5		-1.0	0.6			5.5	-2.9			-3.1	5.5	Discrepancy
Total final consumption	20	1.8		270	97		11		137	1.9	9.2		13	94			7.7	26	140		560	34	Total final consumption
Total final energy consumption	20	1.8		257	97		11		137	1.9	9.2			60			7.7	26	140		513	34	Total final energy consumption
Industry sector	18	1.8		19	0.1				16			3.6		46			4.4	17	47		154	21	Industry sector
Iron and steel		1.8												0.2					4.7		6.6		Iron and steel
Chemical & petrochemical														22					1.4		23		Chemical & petrochemical
Non-metallic minerals	2.0													1.9					1.0		4.9		Non-metallic minerals
Other industries	16			19	0.1				16		3.6			22			4.4	17	40		119	21	Other industries
Transport sector				204	95		11		97	0.9	0.1							0.1	0.4		205	0.1	Transport sector
Domestic air transport				12	0.3		11														12		Domestic air transport
Road				175	81				93		0.1							0.1	0.1		175	0.1	Road
Rail																			0.2		0.2		Rail
Inland waterways				18	13				4.1	0.9											18		Inland waterways
Other transport																							Other transport
Other sector	2.1			33	2.5				24	1.0	5.5			15			3.4	9.0	93		155	12	Other sector
Residential	0.2			3.7					0.1		3.6			6.5			0.6	8.8	48		68	9.4	Residential
Commerce and public services	0.5			10	1.2				6.2	1.0	1.7			6.9			2.4	0.2	33		54	2.6	Commerce and public services
Agriculture	1.4			16	1.2				15		0.1			1.2			0.4		9.2		29	0.4	Agriculture
Non-specified others				2.8					2.8										2.2		5.0		Non-specified others
Non-energy				13									13	34							47		Non-energy
2020																							2020
Production	65		49											163	87		210	38			612	334	Production
Import	22		160	128	49		4.6		62	0.9	0.4		11					3.0			312	3.0	Import
Export	- 32		- 39																		- 72		Export
International marine bunkers				-74					-5.0	-2.4											-74		International marine bunkers
International aviation bunkers				- 22			- 22														- 22		International aviation bunkers
Stock changes	4.5		-3.8	-6.3	-0.9		-0.8		0.4	0.7			-5.7	-0.5							-6.1		Stock changes
Total primary energy supply	59		166	92	48		- 18		58	-0.8	0.4		5.3	162	87		210	41			817	337	Total primary energy supply
Transfers			29	- 27	-9.3		-0.9		-6.9	-0.3	8.1		- 18								2.1		Transfers
Total transformation sector	- 33	4.2	- 201	199	55		28		75	3.4		8.8	28	- 48	- 87		- 202	- 22	160		- 230	- 310	Total transformation sector
Main activity producers	- 16			-1.3					-1.3					- 47	- 87		- 200	-2.0	155		- 199	- 289	Main activity producers
Autoproducers	-0.1	-7.1												-1.6			-2.0	- 20	5.6	1.0	- 24	- 20	Autoproducers
Gas processing																							Gas processing
Petroleum refineries			- 201	200	55		28		77	3.4		8.8	28								-0.7		Petroleum refineries
Coal transformation	- 17	11																			-5.3		Coal transformation
Other transformation																				-1.0		Other transformation	
Losses & own use	-0.4	-2.6		- 11					0.3	1.2	0.4	-8.8	-2.3	-7.5					- 18	-1.0	- 40		Losses & own use
Discrepancy	-4.9		6.2	4.4	2.2		0.4				0.4		-0.1	2.2				5.8	-2.8		11	5.8	Discrepancy
Total final consumption	20	1.7		257	96		9.5		126	3.4	8.8		13	109			8.1	25	140		561	33	Total final consumption
Total final energy consumption	20	1.7		244	96		9.5		126	3.4	8.8			67			8.1	25	140		506	33	Total final energy consumption
Industry sector	18	1.7		18	0.1				14	0.4	3.5			52			4.7	16	48		159	21	Industry sector
Iron and steel		1.7												0.1					4.4		6.2		Iron and steel
Chemical & petrochemical														26					1.5		28		Chemical & petrochemical
Non-metallic minerals	1.8													0.8					0.9		3.5		Non-metallic minerals
Other industries	16			18	0.1				14	0.4	3.5			25			4.7	16	41		122	21	Other industries
Transport sector				193	93																		

Major energy indicators of New Zealand

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total																									Total
Primary energy supply	536	622	708	709	708	697	715	698	698	709	717	722	748	747	788	798	838	847	838	838	824	851	817	829	Primary energy supply
Production	481	528	590	593	602	547	544	527	544	581	615	627	684	654	654	662	687	675	657	646	630	638	612	593	Production
Import	160	214	249	253	270	294	314	311	315	318	318	315	302	311	314	335	329	330	355	350	362	363	312	315	Import
Export	-71	-86	-108	-113	-115	-109	-92	-104	-113	-135	-195	-172	-180	-167	-156	-139	-137	-125	-111	-104	-92	-95	-72	-69	Export
Final energy consumption	370	416	455	465	485	485	493	483	486	492	487	477	488	484	488	497	516	521	525	536	534	547	506	513	Final energy consumption
Industry	139	150	159	166	176	163	164	152	149	154	150	143	155	150	149	158	171	168	170	169	166	174	159	154	Industry
Transport	124	153	170	171	178	185	189	190	192	194	195	191	191	192	190	192	194	202	206	219	224	226	193	205	Transport
Residential	51	53	58	60	59	61	62	61	63	63	61	64	62	63	63	62	63	63	63	63	64	65	66	68	Residential
Commerce & public services	34	35	39	39	40	43	46	48	48	48	47	47	48	47	50	49	51	52	52	52	50	52	53	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	30	35	34	Others
Coal																									Coal
Primary energy supply	50	48	46	59	48	77	90	92	82	70	82	61	54	58	69	62	53	57	48	48	52	55	59	63	Primary energy supply
Production	60	90	87	99	113	129	130	132	143	119	119	110	130	119	121	115	94	81	68	69	78	71	65	67	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	Import
Export	-10	-41	-47	-52	-58	-66	-57	-70	-81	-60	-75	-64	-71	-64	-66	-63	-52	-41	-36	-35	-37	-42	-32	-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	-32	-33	-42	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	-15	-16	-24	Power generation
Final energy consumption	28	25	19	24	25	30	23	22	23	26	27	21	24	22	24	26	24	25	22	23	25	23	20	20	Final energy consumption
Industry	22	21	17	22	22	27	20	19	20	22	23	18	20	18	18	21	21	21	20	19	22	21	18	18	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	0.5	0.7	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.2	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	0.5	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.2	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	0.8	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	1.8	2.0	3.4	3.1	1.5	2.0	1.1	2.6	2.0	1.8	1.5	1.4	Others
Coal products																									Coal 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	4.2	4.2	3.9	3.9	4.0	3.8	3.6	4.1	3.5	3.7	4.0	3.9	4.0	3.7	3.9	3.8	4.6	4.2	4.6	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	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	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	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	236	238	235	166	171	Primary energy supply
Production	82	79	81	77	71	55	49	45	44	87	123	116	115	100	89	78	87	90	77	70	55	56	49	43	Production
Import	138	174	198	196	209	218	202	202	200	197	208	205	219	225	235	229	220	228	233	230	227	219	160	145	Import
Export	-40	-44	-53	-55	-47	-39	-31	-27	-28	-70	-111	-99	-103	-90	-77	-64	-73	-76	-66	-59	-47	-4			

Major economic indicators of New Zealand

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹⁾	3.33	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	Population (millions) ¹⁾
Gross domestic product ³⁾																									Gross domestic product ³⁾
Real term, billion USD (constant 2015)	88	103	119	123	129	135	140	145	149	154	152	152	154	157	161	165	172	178	185	191	198	202	200	209	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	93	109	126	131	137	143	149	154	158	163	161	161	164	167	171	176	182	189	196	203	210	215	212	222	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	45	64	53	54	67	88	104	115	112	137	133	121	147	168	176	191	201	178	189	207	212	213	212	250	Nominal, billion USD (current)
GDP per capita ³⁾																									GDP per capita ³⁾
Real term (constant 2015 USD)	26 399	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	28 032	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	13 663	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	Nominal (current USD)
Nominal GDP & its components (billions of current NZD) ¹⁾																									Nominal GDP & its components (billions of current NZD) ¹⁾
Gross domestic product	76	96	120	129	135	145	155	163	172	187	189	194	203	213	217	233	243	255	271	291	306	323	328	361	Gross domestic product
Households and NPISHs final consumption expenditure	46	56	69	73	78	83	89	95	100	106	109	113	118	124	128	134	139	146	157	167	177	185	186	206	Households and NPISHs final consumption expenditure
General government final consumption expenditure	14	16	20	22	23	24	26	29	32	34	37	38	40	42	44	46	47	49	52	56	61	67	75	75	General government final consumption expenditure
Gross fixed capital formation	16	22	25	28	30	34	37	40	41	45	43	39	40	43	45	50	55	58	61	67	72	76	76	89	Gross fixed capital formation
Stock change	-0.2	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	Stock change
Exports of goods and services	20	28	43	46	44	43	46	46	51	55	61	56	62	65	63	67	68	71	72	80	85	88	71	80	Exports of goods and services
Imports of goods and services	20	26	39	41	40	41	45	48	52	54	61	51	57	61	61	63	66	69	70	77	86	88	73	94	Imports of goods and services
Real GDP & its components (billions of 2015 NZD) ¹⁾																									Real GDP & its components (billions of 2015 NZD) ¹⁾
Gross Domestic Product	126	147	171	176	185	193	201	208	214	220	218	218	221	226	231	237	246	255	265	274	284	291	289	304	Gross Domestic Product
Households and NPISHs final consumption expenditure	69	77	90	92	97	103	108	113	116	121	120	121	124	128	131	136	141	146	156	163	171	175	174	185	Households and NPISHs final consumption expenditure
General government final consumption expenditure	26	28	31	32	33	34	36	38	39	41	43	42	43	44	44	45	46	47	48	50	52	55	59	64	General government final consumption expenditure
Gross fixed capital formation	21	27	30	33	36	41	44	46	46	49	46	41	43	45	48	52	56	58	60	64	67	69	68	75	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.	Stock change
Exports of goods and services	26	36	46	48	52	53	55	54	56	58	57	59	61	62	64	64	67	71	73	75	77	77	63	64	Exports of goods and services
Imports of goods and services	20	27	34	35	38	42	48	50	50	55	53	48	54	57	58	63	67	69	72	78	81	82	69	80	Imports of goods and services
Sectoral shares of Real GDP (%) ¹⁾																									Sectoral shares of Real GDP (%) ¹⁾
Agriculture, Fishery and Forestry	5.9	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	Agriculture, Fishery and Forestry
Industry	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	Industry
Services, etc.	59.9	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	Services, etc.
Manufacturing production index (2010=100) ²⁾	74.5	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	Manufacturing production index (2010=100) ²⁾
External trade (billions of current USD) ¹⁾																									External trade (billions of current USD) ¹⁾
Exports, f.o.b.	9.4	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	Exports, f.o.b.
Imports, c.i.f.	9.5	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²⁾																									Balance of payments (billions of current USD) ²⁾
Trade balance	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	Trade balance
Current account	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	Current account
Overall balance	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	Overall balance
Foreign exchange rate (NZD/USD) ¹⁾	1.68	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	Foreign exchange rate (NZD/USD) ¹⁾
PPP conversion factor, GDP (NZD/USD) ¹⁾	1.54	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	PPP conversion factor, GDP (NZD/USD) ¹⁾
Price Indices																									Price Indices
GDP Deflator (2015=100) ³⁾	60.5	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	GDP Deflator (2015=100) ³⁾
Producer Price Index (2010=100) ²⁾	61.4	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	Producer Price Index (2010=100) ²⁾
Consumer Price Index (2010=100) ²⁾	64.7	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	Consumer Price Index (2010=100) ²⁾
Growth rate (%) ³⁾																									Growth rate (%) ³⁾
Real GDP	0.2	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	Real GDP
Population	0.9	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	Population
Price																									Price
Producer prices	4.6	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	2.2	0.1	5.7	Producer prices
Consumer prices	6.1	3.8	2.6	2.6	2.7	1.8	2.3	3.0	3.4	2.4	4.0	2.1	2.3	4.0	1.1	1.1	1.2	0.3	0.6	1.9	1.6	1.6	1.7	3.9	Consumer prices

Source ¹⁾: World Development Indicators, World Bank²⁾: International Financial Statistics, International Monetary Fund³⁾: Calculated from ¹⁾ and ²⁾ by ESD

Note : N.A. means "not available"

: NZD means New Zealand Dollar, 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)

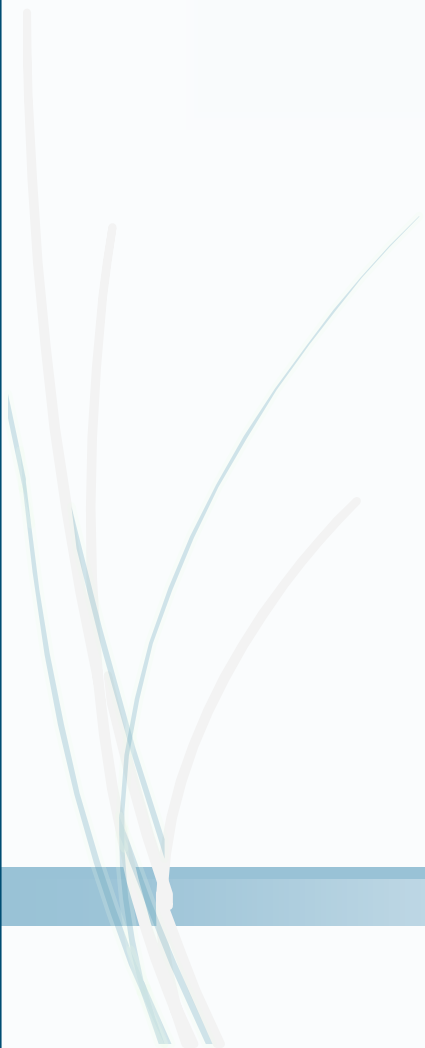
Energy prices in New Zealand

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	NZD / US Dollar	1.39	1.27	1.23	1.22	1.21	1.43	1.44	1.41	1.45	1.52	1.54	1.41
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
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
Fuel Oil	NZD/L	0.76	0.77	0.87	0.81	0.78	0.55	0.42	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
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	8.85
Electricity													
Industrial	NZD/MWh	97.76	103.12	105.90	114.82	120.57	114.97	107.12	122.21	142.22	138.06	152.76	167.83
Commercial	NZD/MWh	153.62	168.18	173.57	171.09	169.17	166.85	166.02	167.09	168.57	171.15	173.40	182.24
Residential	NZD/MWh	247.14	260.55	268.94	278.28	286.11	281.13	287.11	289.60	290.81	291.09	293.61	302.20
Others													
Other Energy Products													



Papua New Guinea



Energy balance table of Papua New Guinea

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules	
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products											
2021																							2021	
Production	50													465	3.6		3.5	74		597	81	Production		
Import	52			52	1.5		2.4		28	20	0.2									103		Import		
Export	- 49			- 25		- 25								- 430						- 505		Export		
International marine bunkers																						International marine bunkers		
International aviation bunkers																						International aviation bunkers		
Stock changes																						Stock changes		
Total primary energy supply	53			27	1.5	- 25	2.4		28	20	0.2			35	3.6		3.5	74		196	81	Total primary energy supply		
Transfers				-1.4	1.3	-3.2	0.4													-1.4		Transfers		
Total transformation sector	- 53			30	1.6	29	2.9	2.4	12	- 18	0.6			- 23	-3.6		-3.5	-1.2	16	- 38	-8.3	Total transformation sector		
Main activity producers				-2.2					-2.2					-4.7	-2.5			-0.4	5.3	-4.6	-2.9	Main activity producers		
Autoproducers				- 25					-4.2	- 21				-5.5	-1.1		-3.5	-0.2	10	- 25	-4.7	Autoproducers		
Gas processing				1.9		1.9								- 13						- 11		Gas processing		
Petroleum refineries	- 53			56	1.6	27	2.9	2.4	18	2.7	0.6									3.0		Petroleum refineries		
Coal transformation																						Coal transformation		
Other transformation																		-0.6		-0.6	-0.6	Other transformation		
Losses & own use														- 12					-1.3	- 13		Losses & own use		
Discrepancy														0.1						0.1		Discrepancy		
Total final consumption				56	4.5	0.5	5.7	2.4	40	1.6	0.8							73	14	143	73	Total final consumption		
Total final energy consumption				56	4.5	0.5	5.7	2.4	40	1.6	0.8							73	14	143	73	Total final energy consumption		
Industry sector				24		0.5			22	1.4	0.6							3.9	10	38	3.9	Industry sector		
Iron and steel																						Iron and steel		
Chemical & petrochemical																						Chemical & petrochemical		
Non-metallic minerals																						Non-metallic minerals		
Other industries				24		0.5			22	1.4	0.6							3.9	10	38	3.9	Other industries		
Transport sector				25	4.5		5.7		14	0.3										25		Transport sector		
Domestic air transport				5.7			5.7													5.7		Domestic air transport		
Road				19	4.5				14											19		Road		
Rail																						Rail		
Inland waterways				0.3						0.3										0.3		Inland waterways		
Other transport																						Other transport		
Other sector				6.9				2.4	43		0.2							69	4.3	80	69	Other sector		
Residential				1.5				1.4			0.1							59	1.7	62	59	Residential		
Commerce and public services				1.0				1.0			0.1							10	2.3	14	10	Commerce and public services		
Agriculture				4.3					43										0.3	4.6		Agriculture		
Non-specified others																						Non-specified others		
Non-energy																							Non-energy	
2020																							2020	
Production	58													474	3.5		3.5	72		611	79	Production		
Import	59			45	3.2		2.4		21	19										104		Import		
Export	- 58			- 29		- 28						-0.8	- 438							- 525		Export		
International marine bunkers																						International marine bunkers		
International aviation bunkers																						International aviation bunkers		
Stock changes	2.5			1.4		0.5		0.2	1.0	-0.4										3.9		Stock changes		
Total primary energy supply	62			18	3.2	- 28	2.4	0.2	22	19		-0.8	35	3.5		3.5	72			194	79	Total primary energy supply		
Transfers				2.2	3.0	-0.8	0.7	-0.6												2.2		Transfers		
Total transformation sector	- 62			37		29	2.9	2.8	17	- 16	0.8	0.8		- 23	-3.5		-3.5	-1.1	15	- 40	-8.1	Total transformation sector		
Main activity producers				-2.5					-2.5					-4.6	-2.4			-0.4	5.4	-4.5	-2.8	Main activity producers		
Autoproducers				- 24					-4.0	- 20				-5.5	-1.1		-3.5	-0.2	10	- 24	-4.7	Autoproducers		
Gas processing				1.9		1.9								- 13						- 11		Gas processing		
Petroleum refineries	- 62			62		27	2.9	2.8	23	4.1	0.8	0.8								-0.1		Petroleum refineries		
Coal transformation																						Coal transformation		
Other transformation																		-0.6		-0.6	-0.6	Other transformation		
Losses & own use														- 12					-1.3	- 14		Losses & own use		
Discrepancy				-1.7	-1.6				1.3	-1.4				0.1					0.1	-1.5		Discrepancy		
Total final consumption				55	4.6	0.5	6.0	2.3	40	1.7	0.8							71	14	141	71	Total final consumption		
Total final energy consumption				55	4.6	0.5	6.0	2.3	40	1.7	0.8							71	14	141	71	Total final energy consumption		
Industry sector				24		0.5			22	1.5	0.6							3.8	10	38	3.8	Industry sector		
Iron and steel																						Iron and steel		
Chemical & petrochemical																						Chemical & petrochemical		
Non-metallic minerals																						Non-metallic minerals		
Other industries				24		0.5			22	1.5	0.6							3.8	10	38	3.8	Other industries		
Transport sector				25	4.6		6.0		14	0.3										25		Transport sector		
Domestic air transport				6.0			6.0													6.0		Domestic air transport		
Road				18	4.6				14											18		Road		
Rail																						Rail		
Inland waterways				0.3						0.3										0.3		Inland waterways		
Other transport																						Other transport		
Other sector				6.8				2.3	43		0.2							67	4.2	78	67	Other sector		
Residential				1.5				1.4			0.1							57	1.7	61	57	Residential		
Commerce and public services				1.0				0.9			0.1							10	2.2	13	10	Commerce and public services		
Agriculture				4.3					43										0.3	4.6		Agriculture		
Non-specified others																						Non-specified others		
Non-energy																							Non-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	Petajoules
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	185	194	196	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	595	611	597	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	Import
Export	-189	-208	-154	-129	-108	-102	-91	-116	-130	-69	-91	-85	-47	-49	-57	-67	-248	-419	-489	-510	-459	-520	-525	-505	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	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	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	25	25	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	62	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	14	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	Others
Coal																									Coal
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 products																									Coal 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		0.4					19	42	44	34	35	38	40	40	44	56	44	26	60	59	53	55	62	53	Primary energy supply
Production	188	209	154	129	108	102	89	102	119	82	87	84	41	40	46	52	47	26	57	58	55	54	58	50	Production
Import							5.4	38	42	33	36	32	41	41	46	53	48	27	58	59	56	55	59	52	Import
Export	-188	-208	-154	-129	-108	-102	-85	-98	-104	-62	-86	-81	-41	-40	-46	-52	-47	-27	-56	-54	-56	-53	-58	-49	Export
Transformation sector		-2.4					-19	-42	-44	-34	-34	-35	-40	-40	-44	-56	-44	-26	-60	-59	-53	-55	-62	-53	Transformation sector
Petroleum refineries		-2.4					-19	-42	-44	-34	-34	-35	-40	-40	-44	-56	-44	-26	-60	-59	-53	-55	-62	-53	Petroleum refineries
Petroleum products																									Petroleum products
Primary energy supply	32	28	49	57	60	65	45	22	21	34	34	34	36	33	32	23	38	54	24	29	36	34	18	27	Primary energy supply
Import	33	28	49	57	60	65	50	40	47	41	41	40	45	42	42	38	50	59	42	51	53	54	45	52	Import
Export	-0.5						-5.8	-18	-27	-7.3	-5.5	-3.5	-6.7	-8.6	-11	-15	-10	-5.0	-20	-22	-17	-21	-29	-25	Export
Transformation sector	-14	-4.6	-14	-17	-19	-24	-6.1	18	20	4.3	5.4	6.2	8.7	5.4	8.1	19	6.7	-7.2	21	17	13	22	37	30	Transformation sector
Power generation	-14	-4.6	-14	-17	-19	-24	-24	-23	-24	-25	-24	-24	-26	-30	-30	-30	-32	-30	-33	-34	-31	-26	-26	-27	Power generation
Petroleum refineries							18	41	44	29	29	30	35	35	38	50	39	23	52	50	48	52	62	56	Petroleum refineries
Final energy consumption	17	24	30	34	34	35	36	37	38	41	41	42	44	45	46	47	50	52	54	55	55	57	55	56	Final energy consumption
Industry	3.6	8.2	12	15	15	15	15	16	16	17	17	18	19	19	19	20	22	23	24	24	24	25	24	24	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	25	25	Transport
Residential	1.0	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5	Residential
Commerce & public services		0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	Commerce & public services
Others	3.3	3.2	4.1	3.9	3.9	4.1	4.1	4.1	4.2	4.7	4.5	4.6	4.6	4.8	5.1	5.4	4.4	4.2	4.2	4.2	4.3	4.3	4.3	4.3	Others
Gas																									Gas
Primary energy supply	3.0	3.5	5.0	6.0	6.1	5.5	4.5	5.2	4.9	4.6	5.1	5.3	5.1	5.4	5.3	5.3	12	17	20	21	16	18	35	35	Primary energy supply
Production	3.0	3.5	5.0	6.0	6.1	5.5	4.5	5.2	4.9	4.6	5.1	5.3	5.1	5.4	5.3	5.3	204	405	432	454	402	463	474	465	Production
Import																									Import
Export																	-192	-387	-412	-433	-386	-445	-438	-430	Export
Transformation sector	-3.0	-3.5	-5.0	-5.7	-5.8	-5.5	-4.5	-5.0	-4.6	-4.5	-4.9	-4.9	-4.9	-5.1	-5.0	-5.2	-6.2	-6.7	-8.5	-8.8	-6.8	-7.9	-23	-23	Transformation sector
Power generation	-3.0	-3.5	-5.0	-5.7	-5.8	-5.5	-4.5	-5.0	-4.6	-4.5	-4.9	-4.9	-4.9	-5.1	-5.0	-5.2	-6.2	-6.6	-8.4	-8.7	-6.7	-7.8	-10	-10	Power generation
Final energy consumption																									Final energy consumption
Industry																									Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Electricity																									Electricity
Power generation	6.4	5.5	10	11	11	12	12	13	13	14	14	14	15	16	16	17	17	16	16	16	16	16	15	16	Power generation
Thermal	4.8	2.9	6.5	7.4	8.3	9.3	9.4	9.3	9.3	10	10	10	10	11	11	11	12	11	12	13	13	12	11	12	Thermal
Hydro	1.7	2.5	3.1	3.1	3.0	2.9	2.8	3.0	3.1	3.0	3.1	3.2	3.3	3.4	3.7	4.1	3.8	3.3	3.1	2.9	3.1	3.5	3.5	3.6	Hydro
Nuclear																									Nuclear
Others						0.2	0.2	0.4	0.4	1.1	1.4	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.5	Others
Final energy consumption	5.9	4.9	8.5	9.4	10	11	11	12	12	13	13	13	14	14	14	15	15	14	14	15	15	15	14	14	Final energy consumption
Industry	4.3	3.1	5.9	6.7	7.2	7.9	8.0	8.																	

Major economic indicators of Papua New Guinea

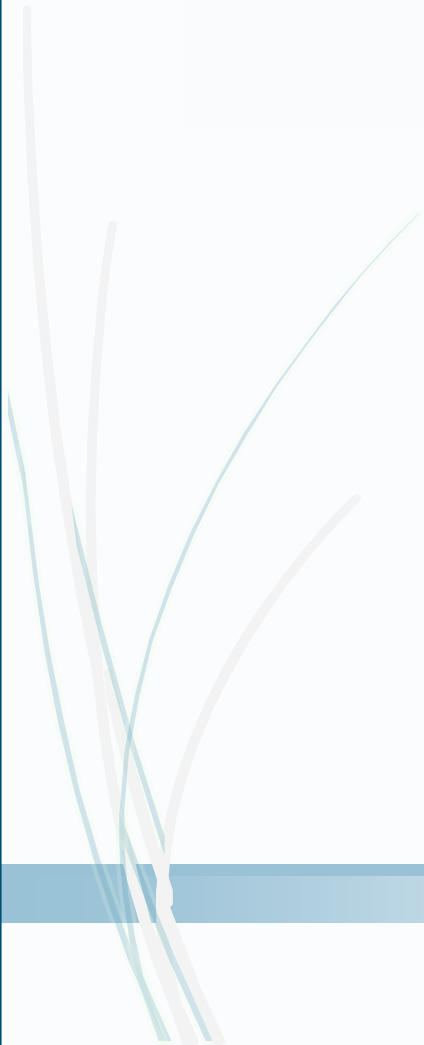
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	3.86	4.62	5.51	5.70	5.89	6.09	6.29	6.50	6.71	6.92	7.14	7.36	7.58	7.81	8.03	8.25	8.46	8.68	8.90	9.11	9.33	9.54	9.75	9.95	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	7	11	11	11	11	11	12	12	13	14	14	15	16	17	17	18	20	22	23	24	24	25	24	24	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	11	17	17	17	17	17	18	19	20	21	21	23	25	25	26	27	31	33	35	36	36	38	36	37	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	3	5	4	3	3	4	4	5	8	10	12	12	14	18	21	21	23	22	21	23	24	25	24	26	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	1 908	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	2 907	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	833	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	Nominal (current USD)
Nominal GDP & its components (billions of current PGK) ¹¹																									Nominal GDP & its components (billions of current PGK) ¹¹
Gross domestic product	3.1	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	Gross domestic product
Households and NPISHs final consumption expenditure	1.8	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.	Households and NPISHs final consumption expenditure
General government final consumption expenditure	0.8	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.	General government final consumption expenditure
Gross fixed capital formation	0.8	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.	Gross fixed capital formation
Stock change		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.	Stock change
Exports of goods and services	1.2	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.	Exports of goods and services
Imports of goods and services	1.5	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.	Imports of goods and services
Real GDP & its components (billions of 2013 PGK) ¹¹																									Real GDP & its components (billions of 2013 PGK) ¹¹
Gross Domestic Product	20	30	29	29	29	30	31	33	34	37	37	39	43	44	46	48	54	58	61	63	63	66	64	64	Gross Domestic Product
Households and NPISHs final consumption expenditure	3.1	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.	Households and NPISHs final consumption expenditure
General government final consumption expenditure	1.1	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.	General government final consumption expenditure
Gross fixed capital formation	1.3	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.	Gross fixed capital formation
Stock change		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.	Stock change
Exports of goods and services	2.5	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.	Exports of goods and services
Imports of goods and services	2.9	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.	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																									Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	10.3	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.	Agriculture, Fishery and Forestry
Industry	6.0	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.	Industry
Services, etc.	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.	Services, etc.
Industrial production 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.	N.A.	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) ²
External trade (billions of current USD) ¹¹																									External trade (billions of current USD) ¹¹
Exports, f.o.b.	1.2	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	Exports, f.o.b.
Imports, c.i.f.	1.2	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	0.1	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	Trade balance
Current account	-0.1	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	Current account
Overall balance	0.1	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	Overall balance
Foreign exchange rate (PGK/USD) ¹¹	0.96	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	Foreign exchange rate (PGK/USD) ¹¹
PPP conversion factor, GDP (PGK/USD) ¹¹	0.73	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	PPP conversion factor, GDP (PGK/USD) ¹¹
Price Indices																									Price Indices
GDP Deflator (2013=100) ³	15.7	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	GDP Deflator (2013=100) ³
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.
Consumer Price Index (2010=100) ²	21.4	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	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	-3.0	-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	Real GDP
Population	2.7	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	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.	Wholesale prices
Consumer prices	7.0	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	Consumer prices

Source ¹¹ : *World Development Indicators* , World Bank
² : *International Financial Statistics* , International Monetary Fund
³ : Calculated from ¹¹ and ² 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

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production	3.9		222											460	115		11	171		983	297	Production	
Import	8.8	1.9	144	266	60	4.0	5.9		170	2.3	25							17	0.2	438	17	Import	
Export	- 24		- 25	- 117	- 73	-1.6			- 12	- 31				- 143				-0.6		- 309	-0.6	Export	
International marine bunkers				- 11					-0.1	- 11										- 11		International marine bunkers	
International aviation bunkers				- 13			- 13													- 13		International aviation bunkers	
Stock changes	38	-0.4	2.0	-0.2	0.1	0.3	-0.5		-1.0	0.9				0.5			1.9			42	1.9	Stock changes	
Total primary energy supply	27	1.5	343	124	- 13	2.7	-8.1		157	- 39	25			318	115		11	189	0.2	1 130	316	Total primary energy supply	
Transfers			- 47	62	18	1.1	-0.2		- 16	-1.0	60									14		Transfers	
Total transformation sector	-4.8		- 293	274	80	15	17		107	50	3.4	2.5		- 178	- 115		-9.6	- 50	207	- 169	- 174	Total transformation sector	
Main activity producers	-0.3			-4.2					-0.9	-3.3				- 169	- 113		-9.4	- 36	201	- 131	- 158	Main activity producers	
Autoproducers	-4.5			-0.5					-0.5					-8.8	-2.3		-0.2	-5.2	6.1	- 15	-7.7	Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			- 293	279	80	15	17		108	53	3.4	2.5								- 14		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation																	-8.4			-8.4	-8.4	Other transformation	
Losses & own use				-2.5								-2.5		- 41					- 28	- 72		Losses & own use	
Discrepancy			-2.7		11	- 12			-1.4	0.2	23			-1.3			-1.5			-5.4	-1.5	Discrepancy	
Total final consumption	22	1.5		458	95	7.4	8.6		246	10	91			98			1.6	138	179	898	140	Total final consumption	
Total final energy consumption	22	1.5		451	95		8.6		246	10	91			98			1.6	138	179	891	140	Total final energy consumption	
Industry sector	22	1.5		46	1.2				25	2.5	17			56				15	104		244	15	Industry sector
Iron and steel																						Iron and steel	
Chemical & petrochemical																						Chemical & petrochemical	
Non-metallic minerals																						Non-metallic minerals	
Other industries	22	1.5		46	1.2				25	2.5	17			56				15	104		244	15	Other industries
Transport sector				346	89		8.6		210	7.6	31			24				15	0.3		385	15	Transport sector
Domestic air transport				8.6			8.6													8.6		Domestic air transport	
Road				330	89				210		31			24				15		369	15	Road	
Rail																			0.3	0.3		Rail	
Inland waterways																						Inland waterways	
Other transport				7.6						7.6										7.6		Other transport	
Other sector				59	5.0				12		42			17			1.6	109	75	261	110	Other sector	
Residential				38							38			8.8			1.0	102	38	188	103	Residential	
Commerce and public services				12	0.1				7.8		3.9			8.1		0.6	5.8	31		57	6.4	Commerce and public services	
Agriculture				3.3	1.1				2.1		0.1						0.2	5.0		8.5	0.2	Agriculture	
Non-specified others				5.8	3.8				1.9					0.2			0.3	0.8		7.0	0.3	Non-specified others	
Non-energy				7.4		7.4														7.4		Non-energy	
2020																						2020	
Production	3.3		232											487	110		11	153		997	274	Production	
Import	8.0	0.9	86	210	45	3.2	7.1		136	1.2	17							15	0.1	320	15	Import	
Export	-0.6		- 24	- 98	- 68	-1.5			- 13	- 13	-2.0			- 220				-0.7		- 342	-0.7	Export	
International marine bunkers				- 10					-0.4	-9.7										- 10		International marine bunkers	
International aviation bunkers				- 11			- 11													- 11		International aviation bunkers	
Stock changes	8.9	0.8	7.6	-8.6	-0.5	-0.5	-1.1		-3.6	-2.8	-0.1			-1.3						7.3		Stock changes	
Total primary energy supply	20	1.7	302	82	- 24	1.2	-5.1		119	- 24	15			266	110		11	168	0.1	961	288	Total primary energy supply	
Transfers			- 86	87	55	1.1			- 25	-4.5	60									1.1		Transfers	
Total transformation sector	-5.3		- 205	215	73	11	9.1		97	21	2.2	2.5		- 150	- 110		-9.6	- 40	190	- 116	- 160	Total transformation sector	
Main activity producers	-0.2			-3.9					-0.9	-3.0				- 140	- 108		-9.4	- 27	182	- 106	- 144	Main activity producers	
Autoproducers	-5.1			-1.5					-0.9	-0.6				- 10	-2.2		-0.2	-6.0	7.7	- 18	-8.4	Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			- 205	220	73	11	9.1		99	24	2.2	2.5								15		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation																		-7.8		-7.8	-7.8	Other transformation	
Losses & own use				-2.8					1.4	11	4.8		-2.5	- 39					- 26	- 68		Losses & own use	
Discrepancy			- 12	- 20	- 32	-8.1	2.3						0.3	-1.3			-0.6	-0.1		- 34	-0.6	Discrepancy	
Total final consumption	14	1.7		361	72	5.0	6.3		192	3.7	82			76			1.5	126	164	745	128	Total final consumption	
Total final energy consumption	14	1.7		356	72		6.3		192	3.7	82			76			1.5	126	164	740	128	Total final energy consumption	
Industry sector	14	1.7		40	1.2				21	3.1	15			41				18	92		207	18	Industry sector
Iron and steel																						Iron and steel	
Chemical & petrochemical																						Chemical & petrochemical	
Non-metallic minerals																						Non-metallic minerals	
Other industries	14	1.7		40	1.2				21	3.1	15			41				18	92		207	18	Other industries
Transport sector				263	71		6.3		161	0.6	24			21				12	0.3		296	12	Transport sector
Domestic air transport				6.3			6.3													6.3		Domestic air transport	
Road				256	71				161		24			21				12		288	12	Road	
Rail																			0.3				

Major energy indicators of Peru

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules	
Total																									Total	
Primary energy supply	418	477	519	501	507	497	555	580	572	605	674	713	752	931	979	955	1 014	1 072	1 081	1 095	1 096	1 137	961	1 130	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	Production	
Import	70	182	226	228	243	279	282	284	286	324	311	279	283	309	346	328	344	307	333	448	519	492	463	320	438	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	Export	
Final energy consumption	363	404	452	434	442	445	480	464	482	506	561	612	637	672	681	731	729	776	804	831	832	858	740	891	Final energy consumption	
Industry	81	92	122	116	125	127	137	141	138	161	166	165	169	182	177	201	201	212	209	230	240	251	207	244	Industry	
Transport	105	128	142	134	125	129	159	146	163	158	210	226	249	272	286	307	307	335	369	378	360	378	296	385	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	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	Commerce & public services	
Others	14	30	27	23	25	24	28	21	21	18	18	19	17	20	21	19	14	19	17	9.3	9.5	10	10	16	Others	
Coal																									Coal	
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	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	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	Import	
Export													-3.1	-5.1	-3.7	-3.7	-7.4	-7.4	-4.8	-10	-19	-18	-0.6	-24	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	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	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	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	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 products																									Coal 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	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	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	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	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	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	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	Import	
Export	-6.3	-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	Export	
Transformation sector	-311	-312	-324	-340	-337	-337	-343	-345	-349	-365	-366	-401	-432	-308	-308	-278	-287	-301	-304	-356	-338	-317	-205	-293	Transformation sector	
Petroleum refineries	-311																									

Major economic indicators of Peru

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹⁾	22.11	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	Population (millions) ¹⁾
Gross domestic product ³⁾																									Gross domestic product ³⁾
Real term, billion USD (constant 2015)	60	77	87	88	93	97	101	108	116	126	137	139	150	160	170	180	184	190	197	202	210	215	192	217	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	116	150	170	171	180	188	197	210	225	244	267	270	292	311	330	349	357	369	384	393	409	418	373	423	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	26	53	52	52	55	59	67	76	89	102	121	121	148	172	193	201	201	190	192	211	223	228	202	224	Nominal, billion USD (current)
GDP per capita ³⁾																									GDP per capita ³⁾
Real term (constant 2015 USD)	2 695	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	5 240	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	1 195	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	Nominal (current USD)
Nominal GDP & its components (billions of current PEN) ¹⁾																									Nominal GDP & its components (billions of current PEN) ¹⁾
Gross domestic product	5.5	120	181	183	193	204	228	251	290	320	353	364	417	473	508	544	570	604	648	688	732	762	706	868	Gross domestic product
Households and NPISHs final consumption expenditure	4.1	86	128	131	138	144	155	163	175	192	220	232	257	286	316	343	368	395	421	441	467	494	452	532	Households and NPISHs final consumption expenditure
General government final consumption expenditure	0.4	12	21	21	22	24	26	29	32	33	37	42	44	49	55	63	71	78	85	91	96	101	113	120	General government final consumption expenditure
Gross fixed capital formation	0.9	29	36	33	32	35	38	43	52	64	83	81	98	110	127	138	140	140	139	142	153	160	140	203	Gross fixed capital formation
Stock change		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	-1.1	-13	Stock change
Exports of goods and services	0.9	15	30	30	33	39	52	67	89	101	105	96	116	144	139	135	129	129	146	170	184	183	160	256	Exports of goods and services
Imports of goods and services	0.8	22	34	34	35	38	43	51	62	77	101	79	99	121	128	136	138	144	148	157	171	175	149	230	Imports of goods and services
Real GDP & its components (billions of 2007 PEN) ¹⁾																									Real GDP & its components (billions of 2007 PEN) ¹⁾
Gross Domestic Product	151	196	222	224	236	246	258	274	295	320	349	353	382	406	431	456	467	483	502	514	535	547	487	553	Gross Domestic Product
Households and NPISHs final consumption expenditure	106	136	143	145	152	155	161	167	177	192	209	216	236	252	271	287	299	311	323	331	344	355	320	360	Households and NPISHs final consumption expenditure
General government final consumption expenditure	16	21	25	25	25	26	27	30	32	33	35	39	41	44	47	51	54	59	62	64	65	68	74	77	General government final consumption expenditure
Gross fixed capital formation	21	40	38	35	35	37	39	44	52	64	82	79	96	106	121	128	125	116	111	113	118	121	102	136	Gross fixed capital formation
Stock change	1.1	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	Stock change
Exports of goods and services	27	39	58	62	67	71	82	93	94	101	109	105	108	114	118	117	113	118	131	143	148	148	124	148	Exports of goods and services
Imports of goods and services	20	42	42	43	45	46	50	57	64	77	97	81	103	117	128	132	131	132	134	144	149	151	128	161	Imports of goods and services
Sectoral shares of Real GDP (%) ¹⁾																									Sectoral shares of Real GDP (%) ¹⁾
Agriculture, Fishery and Forestry	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	Agriculture, Fishery and Forestry
Industry	34.6	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	Industry
Services, etc.	N.A.	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	Services, etc.
Manufacturing Production Index (2010=100) ²⁾	41.2	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.	Manufacturing Production Index (2010=100) ²⁾
External trade (billions of current USD) ¹⁾																									External trade (billions of current USD) ¹⁾
Exports, f.o.b.	3.3	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	464	39.6	59.6	Exports, f.o.b.
Imports, c.i.f.	2.6	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²⁾																									Balance of payments (billions of current USD) ²⁾
Trade balance	0.4	-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	Trade balance
Current account	-1.4	-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	Current account
Overall balance	-2.0	-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	Overall balance
Foreign exchange rate (PEN/USD) ¹⁾	0.19	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	Foreign exchange rate (PEN/USD) ¹⁾
PPP conversion factor, GDP (PEN/USD) ¹⁾	0.07	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	PPP conversion factor, GDP (PEN/USD) ¹⁾
Price Indices																									Price Indices
GDP Deflator (2007=100) ³⁾	3.6	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	GDP Deflator (2007=100) ³⁾
Wholesale Price Index (2010=100) ²⁾	4.7	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.	Wholesale Price Index (2010=100) ²⁾
Consumer Price Index (2010=100) ²⁾	3.1	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	Consumer Price Index (2010=100) ²⁾
Growth rate (%) ³⁾																									Growth rate (%) ³⁾
Real GDP	-5.0	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	Real GDP
Population	2.2	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	Population
Price																									Price
Producer prices	6 737.4	10.5	4.3	1.4	-1.0	1.7	5.2	2.3	3.2	2.5	8.9	-1.8	1.8	6.3	1.8	0.4	1.8	1.8	1.7	1.0	1.7	1.2	N.A.	N.A.	Producer prices
Consumer prices	7 481.7	11.1	3.8	2.0	0.2	2.3	3.7	1.6	2.0	1.8	5.8	2.9	1.5	3.4	3.6	2.8	3.4	3.4	3.6	3.0	1.5	2.3	2.0	4.3	Consumer prices

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"

: PEN means Nuevo Sol, USD means United States Dollar

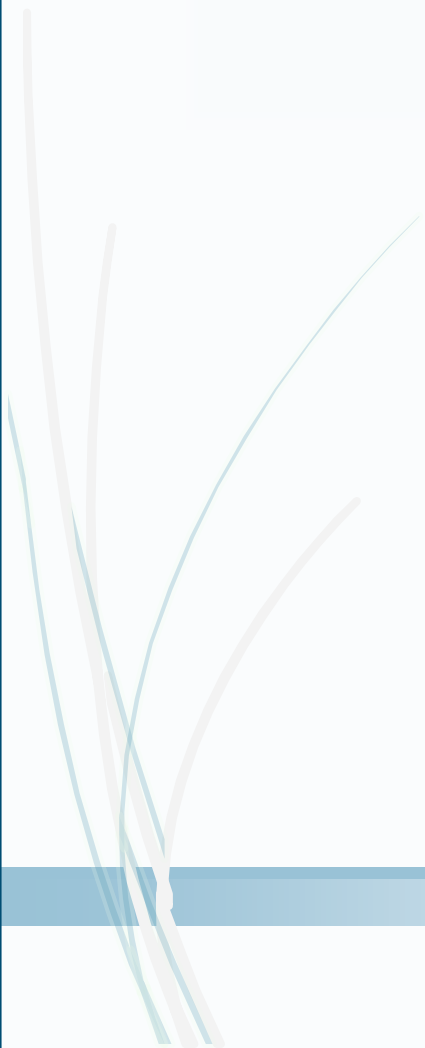
: PPP means Purchasing Power Parity

: 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)



The Philippines



Energy balance table of the Philippines

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																				2021			
Production	310		3.6											118	33		394	439		1 299	867	Production	
Import	690		167	615	130	46	18	2.1	286	43	76		14					5.3		1 477	5.3	Import	
Export	- 205		-3.6	- 23	-4.4								- 19							- 232		Export	
International marine bunkers				-3.0					-1.5	-1.5										-3.0		International marine bunkers	
International aviation bunkers				- 22			- 22													- 22		International aviation bunkers	
Stock changes	-3.4		4.2	1.9	0.1	0.2	-0.3	-0.3	2.7	-2.1	0.4		1.3				2.4			5.0	2.4	Stock changes	
Total primary energy supply	792		171	568	126	46	-5.1	1.8	287	39	77		-3.2	118	33		394	447		2 523	874	Total primary energy supply	
Transfers																				Transfers			
Total transformation sector	- 701		- 162	136	37		11	0.9	61	-6.6	6.8		26	- 113	- 33		- 394	- 125	382	-1 011	- 553	Total transformation sector	
Main activity producers	- 701			- 17					-9.1	-7.8				- 113	- 33		- 394	- 19	382	- 896	- 447	Main activity producers	
Autoproducers																						Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			- 162	153	37		11	0.9	70	1.2	6.8		26							-8.8		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation																	- 106			- 106	- 106	Other transformation	
Losses & own use			-1.6											-5.1					- 63	- 70		Losses & own use	
Discrepancy			-7.6	37	37	-2.8	1.9	0.3	9.9	0.6	-3.8		-5.7							30		Discrepancy	
Total final consumption	91			741	200	43	8.0	3.0	358	33	79		17					322	319	1 473	322	Total final consumption	
Total final energy consumption	82			682	200		8.0	3.0	358	33	79							322	319	1 404	322	Total final energy consumption	
Industry sector	82			65				0.8	37	19	8.4						39	99		286	39	Industry sector	
Iron and steel	16			6.8					0.5	5.5	0.8							20		43		Iron and steel	
Chemical & petrochemical	1.9			4.1				0.8	1.6	1.0	0.7							6.0		12		Chemical & petrochemical	
Non-metallic minerals	38			8.9					2.9	5.2	0.8						0.1	7.6		54	0.1	Non-metallic minerals	
Other industries	26			45					32	7.1	6.1						39	66		176	39	Other industries	
Transport sector				442	199		8.0		226	8.1	0.1							20	0.4	462	20	Transport sector	
Domestic air transport				8.1	0.1		8.0													8.1		Domestic air transport	
Road				398	193				205		0.1							19		418	19	Road	
Rail				0.1					0.1										0.4	0.4		Rail	
Inland waterways				35	6.3				21	8.1								0.3		35	0.3	Inland waterways	
Other transport																						Other transport	
Other sector				175	0.7			2.2	94	6.5	71							263	219	657	263	Other sector	
Residential				53				2.2			51							247	126	426	247	Residential	
Commerce and public services				111					85	6.5	20							15	76	203	15	Commerce and public services	
Agriculture				5.0	0.6				4.4									0.1	15	20	0.1	Agriculture	
Non-specified others				5.2	0.1				5.0	0.1								0.1	2.1	7.3	0.1	Non-specified others	
Non-energy	8.9			60		43							17							69		Non-energy	
2020																				2020			
Production	286		3.9											138	26		396	430		1 280	852	Production	
Import	652		185	537	131	39	18	1.6	237	39	66		6.0					5.6		1 380	5.6	Import	
Export	- 166		- 14	- 40	-5.7	-4.1	-0.6		-6.2	- 10			- 13							- 220		Export	
International marine bunkers				-4.2					-0.8	-3.4										-4.2		International marine bunkers	
International aviation bunkers				- 24			- 24													- 24		International aviation bunkers	
Stock changes	- 46		41	21	3.8	2.2	1.8	0.2	13	2.6			-2.1				2.5			19	2.5	Stock changes	
Total primary energy supply	726		216	491	129	37	-4.4	1.8	242	28	66		-9.0	138	26		396	438		2 430	860	Total primary energy supply	
Transfers																				Transfers			
Total transformation sector	- 658		- 195	165	42	3.9	14	1.0	72	5.1	6.8		20	- 129	- 26		- 396	- 122	366	- 994	- 544	Total transformation sector	
Main activity producers	- 658			- 21					- 12	-9.1				- 129	- 26		- 396	- 21	366	- 884	- 442	Main activity producers	
Autoproducers																						Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			- 195	186	42	3.9	14	1.0	84	14	6.8		20							-8.3		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation																		- 102		- 102	- 102	Other transformation	
Losses & own use			-5.2											-7.4					- 67	- 79		Losses & own use	
Discrepancy			- 16	16	5.0	-1.9	-0.7	0.1	13	-1.8	3.8		-1.4							-0.2		Discrepancy	
Total final consumption	68			672	176	39	9.0	2.9	327	32	77		9.8	1.6				316	300	1 357	316	Total final consumption	
Total final energy consumption	63			623	176		9.0	2.9	327	32	77			1.6				316	300	1 303	316	Total final energy consumption	
Industry sector	63			64				0.7	35	21	7.5			1.6				38	92	259	38	Industry sector	
Iron and steel	9.8			4.8				0.1	0.5	3.6	0.7								19	33		Iron and steel	
Chemical & petrochemical	1.6			7.8				0.6	1.8	4.6	0.8								5.6	15		Chemical & petrochemical	
Non-metallic minerals	29			9.4					3.0	5.6	0.8							0.1	7.0	46	0.1	Non-metallic minerals	
Other industries	22			42					30	7.4	5.2			1.6				38	61	165	38	Other industries	
Transport sector				395	175		9.0		206	5.2	0.2							18	0.3	413	18	Transport sector	
Domestic air transport				9.2	0.1		9.0													9.2		Domestic air transport	
Road				355	169				185		0.2							17		372	17	Road	
Rail				0.1					0.1										0.3	0.3		Rail	
Inland waterways				31	5.8				20	5.2								0.3		32	0.3	Inland waterways	
Other transport																						Other transport	
Other sector				164	0.4			2.2	87	5.2	69							260	207	631	260	Other sector	
Residential				52				2.1			50							245	123	420	245	Residential	
Commerce and public services				103																			

Major energy indicators of the Philippines

	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	
Total																								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	2 430	2 523	Primary energy supply
Production	685	627	790	740	799	809	828	860	876	920	969	1 004	1 029	1 059	1 084	1 059	1 116	1 135	1 246	1 245	1 269	1 321	1 280	1 299	Production
Import	496	790	916	919	837	836	832	799	815	826	845	743	908	881	915	971	1 079	1 242	1 347	1 448	1 580	1 532	1 380	1 477	Import
Export	- 28	- 37	- 76	- 57	- 64	- 66	- 40	- 57	- 77	- 93	- 93	- 78	- 143	- 120	- 104	- 109	- 171	- 138	- 213	- 203	- 186	- 267	- 220	- 232	Export
Final energy consumption	780	908	955	947	944	952	955	942	927	958	966	991	1 042	1 046	1 068	1 125	1 169	1 249	1 351	1 419	1 438	1 472	1 303	1 404	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	259	286	Industry
Transport	197	301	348	345	358	350	362	345	324	337	314	332	337	335	351	368	384	443	480	497	514	534	413	462	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	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	206	193	203	Commerce & public services
Others	5.6	5.5	15	15	16	17	17	16	15	14	15	14	15	13	13	15	15	17	19	22	18	20	18	28	Others
Coal																								Coal	
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	726	792	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	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	Import
Export										- 18	- 20	- 44	- 90	- 60	- 70	- 75	- 127	- 68	- 150	- 136	- 111	- 221	- 166	- 205	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	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	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	63	82	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	63	82	Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Coal products																								Coal 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	422	665	643	617	544	524	413	445	437	432	377	311	372	385	364	317	344	437	435	447	483	337	216	171	Primary energy supply
Production	10	54	23	27	11	08	08	12	10	10	54	16	17	13	92	11	17	14	11	89	71	44	39	36	Production
Import	413	664	639	627	528	514	411	437	439	417	389	282	375	391	358	316	365	438	442	436	482	341	185	167	Import
Export											- 28	- 50	- 15	- 14	- 79	- 78	- 16	- 14	- 10	- 79	- 60	- 56	- 14	- 36	Export
Transformation sector	- 436	- 643	- 626	- 593	- 512	- 497	- 394	- 424	- 421	- 406	- 365	- 291	- 358	- 379	- 339	- 315	- 334	- 426	- 440	- 428	- 484	- 335	- 195	- 162	Transformation sector
Petroleum refineries	- 436	- 643	- 626	- 593	- 512	- 497	- 394	- 424	- 421	- 406	- 365	- 291	- 358	- 379	- 339	- 315	- 334	- 426	- 440	- 428	- 484	- 335	- 195	- 162	Petroleum refineries
Petroleum products																								Petroleum products	
Primary energy supply	- 15	26	23	24	88	90	176	126	99	110	160	219	198	150	206	259	260	284	342	376	354	461	491	568	Primary energy supply
Import	53	88	126	124	178	191	280	215	216	238	256	304	288	243	288	329	370	414	456	514	511	573	537	615	Import
Export	- 28	- 37	- 76	- 57	- 64	- 66	- 40	- 57	- 77	- 75	- 70	- 29	- 38	- 46	- 26	- 26	- 28	- 55	- 52	- 59	- 69	- 41	- 40	- 23	Export
Transformation sector	326	460	532	481	435	421	310	359	374	361	315	232	285	334	288	261	266	347	366	366	428	287	165	136	Transformation sector
Power generation	- 107	- 182	- 88	- 103	- 68	- 68	- 81	- 59	- 41	- 40	- 42	- 49	- 62	- 33	- 41	- 45	- 58	- 59	- 52	- 41	- 30	- 33	- 21	- 17	Power generation
Petroleum refineries	433	642	620	584	503	488	390	418	414	402	357	282	347	367	328	306	324	406	417	407	459	320	186	153	Petroleum refineries
Final energy consumption	330	473	527	517	525	519	524	492	462	467	445</														

Major economic indicators of the Philippines

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	61.56	69.25	77.96	79.63	81.29	82.94	84.61	86.26	87.90	89.56	91.25	92.95	94.64	96.34	98.03	99.70	101.33	103.03	104.88	106.74	108.57	110.38	112.19	113.88	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	107	119	143	147	153	160	171	179	189	201	210	213	229	237	254	271	288	306	328	351	373	396	359	379	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	261	291	347	358	371	390	416	436	460	489	511	518	556	578	617	659	701	745	799	854	908	964	872	922	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	51	85	84	79	84	87	95	107	128	156	182	176	208	234	262	284	297	306	319	328	347	377	362	394	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	1 740	1 726	1 832	1 848	1 878	1 934	2 020	2 079	2 149	2 247	2 301	2 292	2 416	2 465	2 589	2 718	2 844	2 974	3 131	3 289	3 439	3 590	3 196	3 328	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	4 232	4 197	4 456	4 495	4 567	4 704	4 914	5 058	5 228	5 465	5 597	5 574	5 876	5 995	6 298	6 611	6 918	7 235	7 616	8 002	8 366	8 732	7 773	8 096	GDP, PPP (constant 2017 USD)
Nominal (current USD)	820	1 222	1 073	991	1 037	1 049	1 123	1 245	1 452	1 742	1 990	1 893	2 202	2 431	2 672	2 848	2 936	2 974	3 038	3 077	3 195	3 414	3 224	3 461	Nominal (current USD)
Nominal GDP & its components (billions of current PHP) ¹																									Nominal GDP & its components (billions of current PHP) ¹
Gross domestic product	1 228	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	Gross domestic product
Households and NPISHs final consumption expenditure	834	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	118	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	General government final consumption expenditure
Gross fixed capital formation	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	Gross fixed capital formation
Stock change	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	Stock change
Exports of goods and services	238	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	Exports of goods and services
Imports of goods and services	289	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	Imports of goods and services
Real GDP & its components (billions of 2018 PHP) ¹¹																									Real GDP & its components (billions of 2018 PHP) ¹¹
Gross Domestic Product	5 240	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	3 732	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	715	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	General government final consumption expenditure
Gross fixed capital formation	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	Gross fixed capital formation
Stock change	N.A.	N.A.	- 146	143	188	57	89	34	- 187	- 243	- 14	- 148	2.3	39	- 116	21	31	24	27	43	- 27	- 45	- 387	- 81	Stock change
Exports of goods and services	844	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	Exports of goods and services
Imports of goods and services	1 044	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹¹																									Sectoral shares of Real GDP (%) ¹¹
Agriculture, Fishery and Forestry	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	Agriculture, Fishery and Forestry
Industry	33.2	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	Industry
Services, etc.	49.9	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	Services, etc.
Manufacturing Production Index (2010=100) ¹²	N.A.	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	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.	8.1	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	Exports, f.o.b.
Imports, c.i.f.	13.0	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	Imports, c.i.f.
Balance of payments (billions of current USD) ¹²																									Balance of payments (billions of current USD) ¹²
Trade balance	-4.0	-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	Trade balance
Current account	-2.7	-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	Current account
Overall balance	-0.6	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	Overall balance
Foreign exchange rate (PHP/USD) ¹¹	24.31	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	Foreign exchange rate (PHP/USD) ¹¹
PPP conversion factor, GDP (PHP/USD) ¹¹	7.49	10.54	13.80	14.25	14.63	14.80	15.27	15.68	15.98	16.06	16.89	17.24	17.78	18.10	18.07	18.43	18.88	19.00	18.95	19.39	19.64	19.43	19.49	19.08	PPP conversion factor, GDP (PHP/USD) ¹¹
Price Indices																									Price Indices
GDP Deflator (2018=100) ¹³	23.4	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	GDP Deflator (2018=100) ¹³
Producer Price Index (2010=100) ¹²	N.A.	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	Producer Price Index (2010=100) ¹²
Consumer Price Index (2010=100) ¹²	28.6	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	Consumer Price Index (2010=100) ¹²
Growth rate (%) ¹³																									Growth rate (%) ¹³
Real GDP	3.1	4.6	4.4	3.0	3.7	5.1	6.6	4.9	5.3	6.5	4.3	1.4	7.3	3.9	6.9	6.8	6.3	6.3	7.1	6.9	6.3	6.1	-9.5	5.7	Real GDP
Population	2.4	2.4	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.6	1.7	1.8	1.8	1.7	1.7	1.6	1.5	Population
Price																									Price
Producer prices	N.A.	4.2	12.5	15.1	2.0	8.6	12.0	9.0	11.2	-0.7	4.1	-1.4	-4.9	0.9	-0.6	-7.6	-0.9	-6.7	-4.8	-0.9	-24.8	-2.3	-4.6	-1.8	Producer prices
Consumer prices	12.2	6.8	4.0	5.3	2.7	2.3	4.8	6.5	5.5	2.9	8.3	4.2	3.8	4.7	3.0	2.6	3.6	0.7	1.3	2.9	5.3	2.4	2.4	3.9	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"
: PHP means Philippine Peso, 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)

Energy prices in the Philippines

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
Natural Gas Liquids													
Ethane													
LPG	USD/BBL			90.05			39.50	37.78			44.36	43.18	60.54
Naphtha	USD/BBL							43.25			58.59	42.41	194.01
Motor Gasoline	USD/BBL			119.99			64.62	55.36			71.57	48.07	79.12
Aviation Gasoline	USD/BBL			204.94			183.91	111.41			71.63	125.50	83.28
Gasoline Type Jet Fuel													
Kerosene Type Jet Fuel	USD/BBL			128.38			55.74	52.46			77.07	56.92	70.32
Other Kerosene	USD/BBL			126.71			47.71	54.42			77.82	48.37	69.60
Gas/Diesel Oil	USD/BBL			127.16			51.05	51.49			75.89	49.14	74.32
Fuel Oil	USD/BBL			113.44			55.97	36.28			64.65	46.75	65.81
White Spirit SBP	USD/BBL										101.65	77.03	213.67
Lubricants													
Bitumen	USD/BBL			111.96			26.83	38.03			69.34	69.68	82.17
Paraffin Waxes													
Petroleum Coke	USD/BBL											2.36	
Natural Gas													
Natural Gas													
Liquefied Natural Gas													
Compressed Natural Gas													
Electricity													

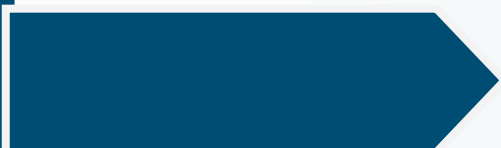
WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
Coal and Coal Products													
Coking Coal													
Anthracite													
Other bituminous coal													
Sub-bituminous Coal	PHP/tonne			2 175			2 990	3,212.50	3,494.28				
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													
Electricity	PHP/kWh		4.82	7	7.93	5.58	4.46	3.33	3.37	3.69	5.43	2.45	5.21

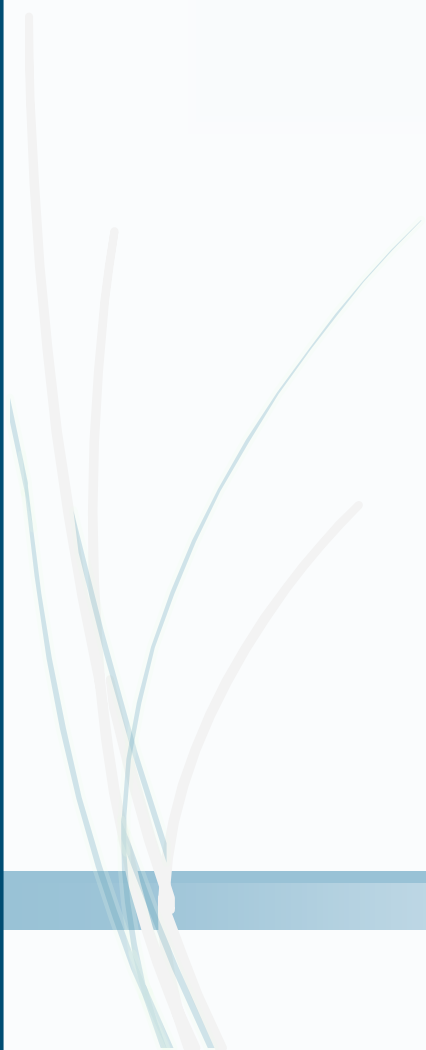
Energy prices in the Philippines

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
Coal and Coal Products													
Coking Coal													
Anthracite													
Other bituminous coal													
Sub-bituminous Coal	PHP/tonne						3 900						3,263.27
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		41.02				30.40	28.96	61.63				31.74
LPG (transport)	PHP/L						30.00	28.64	34.19				
Naphtha													
Motor Gasoline (regular)	PHP/L		59.23				50.05	39.80	45.89				54.79
Aviation Gasoline													
Gasoline Type Jet Fuel													
Kerosene Type Jet Fuel	PHP/L		56.96				41.77	38.72					
Other Kerosene	PHP/L		50.42				34.84	31.78	37.32				47.60
Gas/Diesel Oil	PHP/L		49.19				33.32	25.36	32.14				44.26
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										



Russia



Energy balance table of Russia

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules	
					Gasoline	Napththa	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products											
2021																					2021			
Production	10 746		22 262											27 310	772	2 451		24	472		64 037	925	Production	
Import	590	3.8		43	0.1		1.2		2.2	2.4	4.3		33	281					0.8	5.6		924	0.4	Import
Export	-5 506	- 96	-9 855	-5 051	- 170	- 783	- 102		-1 625	-1 854	- 128		- 389	-8 342					-3.1	- 82		-28 934	-1.5	Export
International marine bunkers				- 253					- 205	- 48												- 253		International marine bunkers
International aviation bunkers				- 239			- 239															- 239		International aviation bunkers
Stock changes	- 413	27	- 109	- 51	- 41	5.9							- 16	- 102				0.1				- 649		Stock changes
Total primary energy supply	5 417	- 64	12 298	-5 551	- 211	- 777	- 340		-1 828	-1 900	- 123		- 373	19 146	772	2 451	24	469	- 77			34 886	924	Total primary energy supply
Transfers				-0.1			- 10		10													-0.1		Transfers
Total transformation sector	-4 803	1 199	-12 060	11 342	1 773	1 146	554		3 369	1 932	1 283		1 285	-9 468	- 772	-2 451	- 24	- 228	4 155	5 619		-7 494	- 825	Total transformation sector
Main activity producers	-1 937			- 27						- 27				-6 010	- 767	-2 451	- 24	-5.8	3 877	2 552		-4 794	- 792	Main activity producers
Autoproducers	- 654	- 133	- 24	- 205					- 63	- 105	-1.0		- 37	-2 957	-4.7			- 220	290	3 054		- 854	- 31	Autoproducers
Gas processing																								Gas processing
Petroleum refineries			-12 037	11 574	1 773	1 146	554		3 432	2 063	1 284		1 322									- 463		Petroleum refineries
Coal transformation	-2 212	1 331																-0.1				- 881		Coal transformation
Other transformation														- 500				-2.6	- 12	13		- 502	-2.6	Other transformation
Losses & own use	- 26	- 50	- 237	- 170					- 154	- 14	-2.4			-1 026				-6.4	-1 170	-1 042		-3 728		Losses & own use
Discrepancy	- 334	11		172		15	35		45	33	44			- 712				-0.1				- 863		Discrepancy
Total final consumption	253	1 095	0.6	5 792	1 562	385	239		1 442	51	1 202		913	7 941				235	2 907	4 576		22 800	99	Total final consumption
Total final energy consumption	243	1 095	0.6	3 996	1 562		239		1 442	51	597		106	5 937				235	2 907	4 576		18 991	99	Total final energy consumption
Industry sector	136	1 095	0.1	426					284	22	14		106	1 612				137	1 307	1 596		6 309	9.3	Industry sector
Iron and steel	94	1 089		10						9.8	0.5			514				59	231	244		2 240		Iron and steel
Chemical & petrochemical	6.9	0.8		17					7.1	1.3	8.8			342				7.9	191	576		1 141	0.7	Chemical & petrochemical
Non-metallic minerals	27	3.3		23					20	2.7	0.8			349				3.4	63	89		558		Non-metallic minerals
Other industries	7.6	2.4	0.1	375					257	7.7	4.1		106	407				68	822	687		2 369	8.5	Other industries
Transport sector				2 742	1 562		239		874	9.2	58			1 053					295			4 090		Transport sector
Domestic air transport				239			239															239		Domestic air transport
Road				2 241	1 549				635		57			7.8								2 249		Road
Rail				171	1.2				169	0.1	0.1								194			365		Rail
Inland waterways				17	0.6				10	5.6	0.1											17		Inland waterways
Other transport				74	11				60	3.6	0.3			1 045					101			1 221		Other transport
Other sector	107		0.5	829					284	20	525			3 272				97	1 305	2 981		8 592	90	Other sector
Residential	77			626					104	0.5	522			2 699				44	633	2 006		6 085	43	Residential
Commerce and public services	30			62					57	4.5	1.0			230				50	595	851		1 819	45	Commerce and public services
Agriculture	0.9		0.4	116					113		2.4			72				3.2	76	122		390	1.4	Agriculture
Non-specified others			0.1	25					9.8	15				271					1.2	0.7		297		Non-specified others
Non-energy	9.8			1 795		385					604		807	2 004								3 809		Non-energy
2020																					2020			
Production	9 713		21 719											24 843	765	2 368	16	444			59 868	901	Production	
Import	607	2.3		62	0.8	0.8	1.2		17	4.8	5.3		32	309				0.9	5.0		986	0.4	Import	
Export	-5 536	- 78	-9 948	-5 079	- 230	- 738	- 85		-1 708	-1 784	- 143		- 392	-8 216				-4.2	- 44		-28 905	-1.5	Export	
International marine bunkers				- 285					- 229	- 56												- 285		International marine bunkers
International aviation bunkers				- 201			- 201															- 201		International aviation bunkers
Stock changes	60	17	8.1	-5.4	-9.0	8.8							-5.2	319				3.2				403	2.0	Stock changes
Total primary energy supply	4 844	- 58	11 779	-5 509	- 238	- 728	- 285		-1 920	-1 835	- 138		- 365	17 255	765	2 368	16	444	- 39			31 865	902	Total primary energy supply
Transfers				-0.1			- 10		10													-0.1		Transfers
Total transformation sector	-4 608	1 159	-11 551	10 956	1 668	1 100	470		3 317	1 900	1 270		1 230	-8 599	- 765	-2 368	- 16	- 212	3 906	5 114		-6 984	- 808	Total transformation sector
Main activity producers	-1 845			- 27						- 27				-5 454	- 761	-2 368	- 16	-6.0	3 660	2 316		-4 500	- 777	Main activity producers
Autoproducers	- 614	- 135	- 20	- 190					- 53	- -														

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	
Total																									Total
Primary energy supply	36 816	26 660	25 932	26 207	26 096	27 022	27 110	27 287	28 084	28 164	28 820	27 076	29 027	29 965	30 352	29 484	29 557	28 978	29 857	30 410	32 302	32 349	31 865	34 886	Primary energy supply
Production	54 145	40 515	40 952	42 217	43 811	46 875	49 088	50 383	51 378	51 886	52 505	49 854	53 571	54 409	55 104	55 728	55 243	55 870	57 513	59 840	62 138	64 056	59 868	64 037	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	986	924	Import
Export	-22 318	-14 446	-16 013	-16 585	-18 316	-20 382	-22 577	-23 551	-23 552	-24 108	-23 679	-23 520	-24 773	-25 254	-25 348	-26 602	-25 775	-27 196	-27 894	-28 938	-30 490	-31 526	-28 905	-28 934	Export
Final energy consumption	24 487	17 740	15 976	16 045	15 609	15 927	15 977	15 395	15 881	15 904	16 193	15 146	15 922	16 410	16 526	15 991	16 607	16 467	16 912	17 525	18 206	18 373	17 666	18 991	Final energy consumption
Industry	8 737	6 141	5 352	5 320	5 273	5 206	5 196	5 151	5 358	5 218	5 205	4 834	5 289	5 364	6 032	5 676	5 881	5 833	6 244	6 261	5 818	6 108	5 985	6 309	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	3 967	3 930	3 948	4 013	4 229	4 151	3 786	4 090	4 090	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	6 207	6 020	5 760	6 085	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	1 550	1 718	1 587	1 819	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	402	376	549	688	Others
Coal																									Coal
Primary energy supply	7 955	5 419	5 065	4 890	4 944	5 002	4 884	4 794	4 896	4 737	4 977	4 020	4 488	4 575	4 840	4 502	4 376	4 921	4 755	4 733	4 992	5 304	4 855	5 427	Primary energy supply
Production	8 055	5 471	5 382	5 620	5 428	5 855	6 029	6 591	6 671	6 823	6 999	6 433	6 965	6 890	7 750	7 715	7 944	8 385	8 757	9 304	10 065	10 579	9 726	10 758	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	608	590	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	-5 539	-5 507	Export
Transformation sector	-5 857	-4 521	-4 383	-4 372	-4 367	-4 468	-4 380	-4 369	-4 470	-4 376	-4 260	-3 912	-4 257	-4 485	-4 608	-4 331	-4 032	-4 490	-4 271	-4 272	-4 686	-4 776	-4 618	-4 814	Transformation sector
Power generation	-4 235	-3 291	-3 174	-3 118	-3 112	-3 141	-2 966	-3 021	-3 129	-2 963	-2 960	-2 497	-2 748	-2 843	-2 936	-2 785	-2 377	-2 575	-2 418	-2 366	-2 735	-2 628	-2 469	-2 601	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	244	229	243	243	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	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	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	Commerce & public services
Others	320	125	27	29	47	48	44	73	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	Others
Coal products																									Coal products
Primary energy supply	47	-10	-41	-71	-80	-97	-108	-80	-51	-92	-85	-44	-61	-69	-52	-69	-74	-65	-65	-80	-76	-80	-58	-64	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	Production
Import	-96	-37	-46	-60	-94	-97	-112	-84	-53	-92	-88	-54	-67	-73	-69	-73	-73	-71	-66	-85	-79	-81	-78	-96	Import
Export																									Export
Transformation sector	530	259	302	341	361	338	335	345	356	479	489	454	497	553	899	895	974	983	1 002	1 005	1 039	1 168	1 160	1 199	Transformation sector
Power generation	-1 58	-97	-171	-175	-179	-202	-212	-179	-290	-209	-197	-201	-218	-219	-118	-129	-124	-131	-130	-138	-135	-135	-135	-133	Power generation
Final energy consumption	561	454	241	245	233	211	221	244	267	358	340	349	373	420	805	778	853	873	897	885	907	1 047	1 055	1 096	Final energy consumption
Industry	532	439	240	244	232	210	220	243	267	358	339	347	372	420	805	777	852	873	896	884	906	1 046	1 055	1 095	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	Residential
Commerce & public services			0.2	0.2	0.2	0.2	0.1	0.4	0.2	0.1	1.8	1.8	1.0												

Major economic indicators of Russia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Population (millions) ¹⁾	147.97	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	Population (millions) ¹⁾	
Gross domestic product ³⁾																									Gross domestic product ³⁾	
Real term, billion USD (constant 2015)	1 161	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	Real term, billion USD (constant 2015)	
GDP, billion USD (PPP, constant 2017)	3 179	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	GDP, billion USD (PPP, constant 2017)	
Nominal, billion USD (current)	517	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	Nominal, billion USD (current)	
GDP per capita ³⁾																									GDP per capita ³⁾	
Real term (constant 2015 USD)	7 849	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	Real term (constant 2015 USD)	
GDP, PPP (constant 2017 USD)	21 483	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	GDP, PPP (constant 2017 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.	Nominal (current USD)	
Nominal GDP & its components (billions of current RUB) ¹⁾																									Nominal GDP & its components (billions of current RUB) ¹⁾	
Gross domestic product	0.6	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	Gross domestic product	
Households and NPISHs final consumption expenditure	N.A.	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	Households and NPISHs final consumption expenditure	
General government final consumption expenditure	N.A.	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	General government final consumption expenditure	
Gross fixed capital formation	N.A.	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	Gross fixed capital formation	
Stock change	N.A.	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	Stock change	
Exports of goods and services	N.A.	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	Exports of goods and services	
Imports of goods and services	N.A.	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	Imports of goods and services	
Real GDP & its components (billions of 2016 RUB) ¹⁾																									Real GDP & its components (billions of 2016 RUB) ¹⁾	
Gross Domestic Product	72 791	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	Gross Domestic Product	
Households and NPISHs 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.	Households and NPISHs final consumption expenditure
General government final consumption expenditure	19 404	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	General government final consumption expenditure	
Gross fixed capital formation	36 355	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	Gross fixed capital formation	
Stock change	12 068	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	Stock change	
Exports of goods and services	13 116	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	Exports of goods and services	
Imports of goods and services	14 755	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	Imports of goods and services	
Sectoral shares of Real GDP (%) ¹⁾																									Sectoral shares of Real GDP (%) ¹⁾	
Agriculture, Fishery and Forestry	4.6	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	Agriculture, Fishery and Forestry	
Industry	39.4	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	Industry	
Services, etc.	51.3	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	Services, etc.	
Industrial production index (2010=100) ²⁾	N.A.	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	Industrial production index (2010=100) ²⁾	
External trade (billions of current USD) ¹⁾																									External trade (billions of current USD) ¹⁾	
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.	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.	Imports, c.i.f.	
Balance of payments (billions of current USD) ²⁾																									Balance of payments (billions of current USD) ²⁾	
Trade balance	N.A.	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	Trade balance	
Current account	N.A.	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	Current account	
Overall balance	N.A.	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	Overall balance	
Foreign exchange rate (RUR/USD) 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.	N.A.	N.A.	N.A.	N.A.	N.A.	Foreign exchange rate (RUR/USD) ¹⁾	
PPP conversion factor, GDP (RUR/USD) ¹⁾	0.00	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	PPP conversion factor, GDP (RUR/USD) ¹⁾	
Price Indices																									Price Indices	
GDP Deflator (2016=100) ³⁾	0.0	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	GDP Def	

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"
:- means "very small number"
: RUB means Russian Ruble, 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)



Singapore

Energy balance table of Singapore

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naptha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production															2.7	22			25	14	Production		
Import	19	0.1											124	445		3.5			6 256	3.4	Import		
Export			- 52	- 3 120	- 1 006	- 49	- 123	- 6.9	- 794	- 687	- 8.1	- 447							- 3 173		Export		
International marine bunkers				- 1 792					- 177	- 1 615									- 1 792		International marine bunkers		
International aviation bunkers				- 89			- 89												- 89		International aviation bunkers		
Stock changes			18	20	13				9.5	- 2.8				- 6.7					31		Stock changes		
Total primary energy supply	19	0.1	1 980	- 1 206	- 329	293	- 171	- 5.7	- 512	- 155	- 3.7	- 323	438		2.7	25			1 259	17	Total primary energy supply		
Transfers																						Transfers	
Total transformation sector	- 12		- 1 831	1 788	263	130	411	3.6	377	183	28	130	262	- 373	- 2.7	- 25	201		- 255	- 17	Total transformation sector		
Main activity producers	- 12			- 2.7					- 0.2	- 2.6				- 327	- 2.7	- 25	184		- 185	- 17	Main activity producers		
Autoproducers				- 5.4						- 5.4				- 46			17		- 35		Autoproducers		
Gas processing																					Gas processing		
Petroleum refineries			- 1 831	1 796	263	130	411	3.6	378	191	28	130	262						- 34		Petroleum refineries		
Coal transformation																					Coal transformation		
Other transformation																					Other transformation		
Losses & own use				- 67								- 51	- 16	- 0.4			- 10		- 78		Losses & own use		
Discrepancy			- 149	3.9	102	- 163	- 240	2.1	191	- 16	- 18	41	106	8.4			2.1		- 135		Discrepancy		
Total final consumption	7.6	0.1		519	35	260	0.1		57	12	6.1	120	29	73			193		792		Total final consumption		
Total final energy consumption	7.6	0.1		235	35		0.1		57	12	6.1	120	4.9	73			193		508		Total final energy consumption		
Industry sector	7.6	0.1		146					6.9	12	1.8	120	4.9	65			80		299		Industry sector		
Iron and steel																					Iron and steel		
Chemical & petrochemical				127						6.6		120							127		Chemical & petrochemical		
Non-metallic minerals																					Non-metallic minerals		
Other industries	7.6	0.1		19					6.9	5.3	1.8		4.9	65			80		172		Other industries		
Transport sector				85	35		0.1		50					0.1			10		95		Transport sector		
Domestic air transport				0.1			0.1												0.1		Domestic air transport		
Road				81	35				45					0.1			0.7		82		Road		
Rail																	9.5		9.5		Rail		
Inland waterways				4.3					4.3										4.3		Inland waterways		
Other transport																					Other transport		
Other sector				4.3							4.3			7.4			102		114		Other sector		
Residential				1.1							1.1			3.0			30		34		Residential		
Commerce and public services				3.2							3.2			4.2			71		79		Commerce and public services		
Agriculture																					Agriculture		
Non-specified others														0.1			0.8		1.0		Non-specified others		
Non-energy				284		260						24							284		Non-energy		
2020																						2020	
Production															1.8	23			25	13	Production		
Import	18		1 970	3 926	744	345	89	2.8	550	2 059	16		121	427		3.0			6 345	2.9	Import		
Export			- 40	- 3 162	- 1 038	- 56	- 139	- 8.4	- 856	- 627	- 12	- 424							- 3 202		Export		
International marine bunkers				- 1 779					- 203	- 1 576									- 1 779		International marine bunkers		
International aviation bunkers				- 87			- 87												- 87		International aviation bunkers		
Stock changes			4.4	- 24	- 17				- 2.0	- 5.1				1.8					- 18		Stock changes		
Total primary energy supply	18		1 934	- 1 126	- 311	288	- 138	- 5.6	- 512	- 148	4.0	- 303	429		1.8	26			1 284	16	Total primary energy supply		
Transfers																						Transfers	
Total transformation sector	- 10		- 1 771	1 730	249	131	401	3.5	369	176	28	125	247	- 360	- 1.8	- 26	191		- 248	- 16	Total transformation sector		
Main activity producers	- 10			- 0.3						- 0.3				- 311	- 1.8	- 26	166		- 184	- 16	Main activity producers		
Autoproducers				- 3.6						- 3.6				- 49			25		- 27		Autoproducers		
Gas processing																					Gas processing		
Petroleum refineries			- 1 771	1 734	249	131	401	3.5	369	180	28	125	247						- 37		Petroleum refineries		
Coal transformation																					Coal transformation		
Other transformation																					Other transformation		
Losses & own use				- 66								- 50	- 16	- 0.5			- 9.5		- 76		Losses & own use		
Discrepancy			- 162	- 42	98	- 173	- 264	2.1	200	- 16	- 26	37	101	- 0.2			1.2		- 204		Discrepancy		
Total final consumption	7.6			497	35	247			57	12	5.9	112	29	69			183		756		Total final consumption		
Total final energy consumption	7.6			226	35				57	12	5.9	112	4.9	69			183		485		Total final energy consumption		
Industry sector	7.6			136					6.4	12	1.5	112	4.9	62			76		281		Industry sector		
Iron and steel																					Iron and steel		
Chemical & petrochemical				118						6.2		112							118		Chemical & petrochemical		
Non-metallic minerals																					Non-metallic minerals		
Other industries	7.6			18					6.4	5.5	1.5		4.9	62			76		163		Other industries		
Transport sector				86	35				50					0.1			10		96		Transport sector		
Domestic air transport																					Domestic air transport		
Road				82	35				46					0.1			0.5		82		Road		
Rail																	9.6		9.6		Rail		
Inland waterways				4.0					4.0										4.0		Inland waterways		
Other transport																					Other transport		
Other sector				4.4							4.4			6.6			97		108		Other sector		
Residential				1.1							1.1			3.2			30		34		Residential		
Commerce and public services				3.3							3.3			3.2			67		73		Commerce and public services		
Agriculture																					Agriculture		
Non-specified others														0.1			0.8		1.0		Non-specified others		
Non-energy				270		247						24							270		Non-energy		

Major energy indicators of Singapore

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules	
Total																									Total	
Primary energy supply	483	789	782	892	886	1 071	1 286	880	945	872	1 005	844	775	799	1 081	1 055	1 129	1 157	1 134	1 231	1 186	1 115	1 284	1 259	Primary energy supply	
Production	2.9	8.5	8.5	16	16	17	17	17	16	17	18	18	25	25	25	27	27	26	28	27	26	27	25	25	25	Production
Import	2 571	3 387	3 455	3 599	3 717	4 060	4 692	4 739	5 044	5 348	5 886	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	6 256	Import
Export	-1 544	-2 030	-1 746	-1 738	-1 879	-2 030	-2 248	-2 660	-2 781	-2 983	-3 252	-3 522	-3 726	-3 952	-3 549	-3 573	-3 694	-3 855	-4 159	-4 297	-3 839	-3 670	-3 202	-3 173	-3 173	Export
Final energy consumption	130	160	234	240	249	262	274	299	309	324	332	380	415	434	431	451	476	490	478	501	486	490	485	508	508	Final energy consumption
Industry	25	31	91	93	99	113	122	135	141	148	152	192	221	234	231	256	276	280	263	296	282	284	281	299	299	Industry
Transport	57	79	73	75	74	75	76	82	85	88	90	99	102	108	105	99	102	109	112	102	99	98	96	95	95	Transport
Residential	12	15	26	27	27	28	27	25	25	25	25	27	27	27	27	28	29	30	31	30	30	31	34	34	34	Residential
Commerce & public services	34	33	40	42	46	45	46	51	56	61	63	60	63	64	66	68	68	70	71	72	74	76	73	79	79	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	1.4	1.3	1.1	1.0	0.9	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	Others
Coal																									Coal	
Primary energy supply							0.2					0.1	0.2	0.2	1.0	1.1	1.6	1.7	1.8	3.8	2.0	1.9	1.8	1.9	1.9	Primary energy supply
Production																										Production
Import							0.2					0.1	0.3	0.3	1.0	1.1	1.7	1.7	1.8	3.8	2.0	1.9	1.8	1.9	1.9	Import
Export																-0.1	-0.3									Export
Transformation sector															-0.1	-5.6	-9.5	-1.0	-1.1	-1.2	-1.2	-1.2	-1.0	-1.2	-1.2	Transformation sector
Power generation															-0.1	-5.6	-9.5	-1.0	-1.1	-1.2	-1.2	-1.2	-1.0	-1.2	-1.2	Power generation
Final energy consumption												0.1	0.2	0.2	1.0	5.4	6.8	6.8	7.2	2.5	7.6	7.4	7.6	7.6	7.6	Final energy consumption
Industry												0.1	0.2	0.2	1.0	5.4	6.8	6.8	7.2	2.5	7.6	7.4	7.6	7.6	7.6	Industry
Transport																										Transport
Residential																										Residential
Commerce & public services																										Commerce & public services
Others																										Others
Coal products																									Coal products	
Primary energy supply	0.9	0.5			0.3	0.4	0.3	0.1	0.2	0.3	0.2										0.1	0.2		0.1	0.1	Primary energy supply
Production																										Production
Import	1.5	1.0			0.3	0.4	0.3	0.1	0.2	0.3	0.2										0.1	0.2		0.1	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	0.3	0.2										0.1	0.2		0.1	0.1	Final energy consumption
Industry	0.9	0.5			0.3	0.4	0.3	0.1	0.2	0.3	0.2										0.1	0.2		0.1	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	2 496	2 439	2 465	2 470	1 996	1 890	1 947	2 148	1 977	1 937	2 045	2 198	2 380	2 358	2 231	1 934	1 980	1 980	Primary energy supply
Production																										Production
Import	1 823	2 199	1 786	1 743	1 736	1 992	2 363	2 503	2 447	2 469	2 470	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	2 014	Import
Export	-0.8	-0.3		-0.3				-7.1	-8.2	-4.0	-0.3	-3.9	-3.6	-3.7	-4.0	-4.9	-1.14	-4.8	-4.4	-5.3	-4.4	-4.0	-4.0	-5.2	-5.2	Export
Transformation sector	-1 745	-2 199	-1 786	-1 743	-1 736	-1 992	-2 363	-2 496	-2 439	-2 465	-2 470	-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	-1 831	Transformation sector
Petroleum refineries	-1 745	-2 199	-1 786	-1 743	-1 736	-1 992	-2 363	-2 496	-2 439	-2 465	-2 470	-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	-1 831	Petroleum refineries
Petroleum products																									Petroleum products	
Primary energy supply	-1 266	-1 472	-1 060	-942	-988	-1 123	-1 314	-1 843	-1 737	-1 853	-1 732	-1 449	-1 442	-1 479	-1 423	-1 333	-1 244	-1 332	-1 521	-1 626	-1 640	-1 589	-1 126	-1 206	-1 206	Primary energy supply
Import	747	1 133	1 622	1 781	1 860	1 883	2 108	2 026	2 371	2 636	3 167	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	3 775	Import
Export	-1 543	-2 030	-1 746	-1 738	-1 879	-2 030	-2 248	-2 653	-2 773	-2 979	-3 251	-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	-3 120	Export
Transformation sector	1 545	1 790	1 466	1 374	1 455	1 832	2 205	2 383	2 365	2 438	2 420	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	1 788	Transformation sector
Power generation	-185	-228	-276	-249	-203	-133	-106	-93	-81	-79	-72	-74	-93	-93	-68	-30	-10	-84	-5.1	-7.2	-4.2	-3.6	-3.9	-8.1	-8.1	Power generation
Petroleum refineries	1 733	2 021	1 747	1 628	1 663	1 971	2 316	2 481	2 451	2 517	2 492	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	1 796	Petroleum refineries
Final energy consumption	79	90	131	135	139	141	145	150	155	163	167	204	215	230	224	229	245	256	239	237	235	235	226	235	235	Final energy consumption
Industry	4.6	5.5	53	56	59	62	65	68	71	74	77	106	117	126	123	135	148	152	133	141	142	143	136	146	146	Industry
Transport	56	78	72	74	73	74	75	78	81	83	85	92	93	99	96	90	92	99	102	92	88	87	86	85	85	Transport
Residential	1.8		3.9	3.6	2.4	2.2	1.9	1.6	1.5	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1	Residential
Commerce & public services	17	6.8	1.9	2.1	4.4	3.5	3.8	2.6	2.5	4.0	3.9	4.0	4.0	3.7	3.7	3.7	3.4	3.4	3.3	3.2	3.2	3.0	3.3	3.2	3.2	Commerce & public services
Others																										Others
Gas																									Gas	
Primary energy supply		53	47	74	121	184	220	210	226	242	248	279	302	305	331	372	391	398	407	410	418	425	429	438	438	Primary energy supply
Production																										Production
Import		53	47	74	121	184	220	210	226	242	248	279	302	305	331	372	394	396	405	413	417	425	427	445	445	Import
Export																										Export
Transformation sector	2.6	-49	-42	-70	-116	-171	-202	-189	-205	-219	-224	-239	-250	-257	-282	-318	-338	-342	-350	-352	-354	-364	-360	-373	-373	Transformation sector
Power generation		-53	-47	-74	-121	-176	-207	-193	-210	-219	-224	-239	-250	-257	-282	-318	-338	-342	-350	-352	-354	-364	-360	-373	-373	Power generation
Final energy consumption	2.6	3.4	4.4	4.5	4.5	13	18	21	21	23	25	36	47	50	47	55	57	56	57	60	62	62	69	73	73	Final energy consumption
Industry						8.5	13	17	17	19	19	30	41	43	40	48	50	49	50	54	55	55	62	65	65	Industry
Transport	</																									

Major economic indicators of Singapore

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	3.05	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	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	71	107	141	139	144	151	166	178	194	212	216	216	248	263	275	288	299	308	319	334	346	350	336	366	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	114	172	225	223	232	242	266	286	312	340	346	347	397	422	440	462	480	494	512	535	554	562	540	588	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	36	88	96	90	93	98	115	128	149	181	194	194	240	279	295	308	315	308	319	343	377	377	348	424	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	23 273	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	37 326	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	11 862	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	Nominal (current USD)
Nominal GDP & its components (billions of current SGD) ¹																									Nominal GDP & its components (billions of current SGD) ¹
Gross domestic product	70	124	166	161	166	170	194	213	236	273	274	282	327	351	369	385	399	423	441	474	508	514	481	569	Gross domestic product
Households and NPISHs final consumption expenditure	31	51	69	74	77	77	82	85	90	100	109	110	119	129	138	144	150	157	161	167	175	182	155	168	Households and NPISHs final consumption expenditure
General government final consumption expenditure	6.7	10	17	19	20	19	20	21	23	25	28	28	32	32	33	38	38	43	45	48	51	53	59	61	General government final consumption expenditure
Gross fixed capital formation	22	41	54	50	44	42	47	49	55	66	77	81	84	89	97	106	112	115	115	120	114	117	100	122	Gross fixed capital formation
Stock change	2.8	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	Stock change
Exports of goods and services	125	225	312	294	305	345	416	479	539	580	627	539	647	714	725	751	766	755	726	813	902	903	875	1 049	Exports of goods and services
Imports of goods and services	118	205	292	268	274	297	365	415	466	495	571	473	561	618	636	662	672	640	610	687	752	751	725	849	Imports of goods and services
Real GDP & its components (billions of 2015 SGD) ¹																									Real GDP & its components (billions of 2015 SGD) ¹
Gross Domestic Product	97	147	193	191	199	208	228	245	267	291	297	297	340	361	377	396	411	423	439	459	475	481	463	504	Gross Domestic Product
Households and NPISHs final consumption expenditure	45	63	87	94	97	98	103	107	112	120	125	125	130	135	140	144	150	157	162	167	174	179	156	166	Households and NPISHs final consumption expenditure
General government final consumption expenditure	9.4	13	22	23	24	25	25	26	28	30	32	32	35	35	35	39	40	43	45	46	48	49	56	58	General government final consumption expenditure
Gross fixed capital formation	25	43	60	57	52	49	54	56	61	71	79	83	88	94	102	108	113	115	116	122	116	118	101	119	Gross fixed capital formation
Stock change	2.5	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	Stock change
Exports of goods and services	98	192	273	263	282	321	383	432	480	521	548	509	599	645	654	694	720	755	755	812	876	878	882	985	Exports of goods and services
Imports of goods and services	89	174	256	239	252	277	340	379	418	449	498	448	521	551	565	602	619	640	641	693	744	744	735	824	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																									Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	0.2	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	Agriculture, Fishery and Forestry
Industry	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	Industry
Services, etc.	64.9	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	Services, etc.
Industrial production index (2010=100) ²	27.4	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	Industrial production index (2010=100) ²
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	52.7	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	Exports, f.o.b.
Imports, c.i.f.	60.9	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	-1.6	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	Trade balance
Current account	3.1	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	Current account
Overall balance	7.0	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	Overall balance
Foreign exchange rate (SGD/USD) ¹	1.81	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	Foreign exchange rate (SGD/USD) ¹
PPP conversion factor, GDP (SGD/USD) ¹	0.97	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	PPP conversion factor, GDP (SGD/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2015=100) ³	72.3	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	GDP Deflator (2015=100) ³
Wholesale Price Index (2010=100) ²	92.9	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.	Wholesale Price Index (2010=100) ²
Consumer Price Index (2010=100) ²	71.8	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	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	9.8	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	Real GDP
Population	4.0	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	1.2	-0.3	-4.1	Population
Price																									Price
Wholesale prices	1.7	0.0	10.1	-1.7	-3.2	2.0	5.2	9.6	5.0	0.3	7.5	-13.9	4.7	8.4	0.4	-2.7	-3.3	-15.3	-7.0	7.1	6.4	-3.3	-8.7	N.A.	Wholesale prices
Consumer prices	3.5	1.7	1.4	1.0	-0.4	0.5	1.7	0.4	1.0	2.1	6.6	0.6	2.8	5.2	4.6	2.4	1.0	-0.5	-0.5	0.6	0.4	0.6	-0.2	2.3	Consumer prices

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"
: SGD means Singapore Dollar, 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)

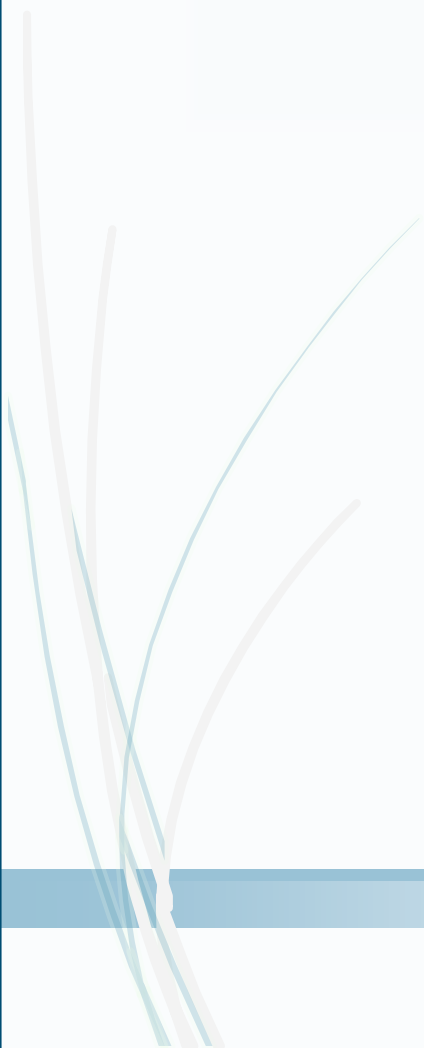
Energy prices in Singapore

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Currency Exchange Rate	SGP / 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
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/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
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
Others													



Chinese Taipei



Energy balance table of Chinese Taipei

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																					2021		
Production			0.1											3.7	12	303	40	62			422	88	Production
Import	1 581	5.6	1 593	588	4.0	500	1.4		1.4	33	24		25	979							4 746		Import
Export		-1.3	- 27	- 536	- 128		- 15		- 267	- 75	-0.1		- 52								- 565		Export
International marine bunkers				- 59					-6.4	- 53											- 59		International marine bunkers
International aviation bunkers				- 73			- 73														- 73		International aviation bunkers
Stock changes	- 31	2.8	21	-7.1	2.7	6.0	-1.8		-5.7	-1.5	1.7		-8.5	-9.9							- 25		Stock changes
Total primary energy supply	1 549	7.1	1 586	- 87	- 122	506	- 88		- 277	- 96	26		- 36	973	12	303	40	62			4 446	88	Total primary energy supply
Transfers			44	- 12	73	- 67	-4.1		-3.2	- 14	0.8		2.2								32		Transfers
Total transformation sector	-1 384	117	-1 610	1 694	334	363	117	0.2	472	130	47	91	140	- 755	- 12	- 303	- 37	- 46	1 047	100	-1 190	- 74	Total transformation sector
Main activity producers	- 791			- 40					-2.8	- 37				- 761	- 12	- 303	- 14	-1.6	884	98	- 942	- 27	Main activity producers
Autoproducers	- 309	- 45		- 13					-0.1	-3.9	-0.1	-8.4	-0.4	-3.4			- 23	- 45	163	2.4	- 272	- 48	Autoproducers
Gas processing														10							10		Gas processing
Petroleum refineries			-1 610	1 747	334	363	117	0.2	474	171	47	100	140								137		Petroleum refineries
Coal transformation	- 284	162																			- 123		Coal transformation
Other transformation																							Other transformation
Losses & own use		- 53		- 71	-0.1						-2.7	- 63	-4.8	- 24					- 100	- 23	- 270		Losses & own use
Discrepancy	- 22	0.4	- 18	-1.5	5.1	-1.3	- 16		3.1	19	-0.3		- 11	-2.0					4.5		- 39		Discrepancy
Total final consumption	143	72	2.2	1 523	291	801	8.6	0.2	194	38	71	28	91	192			3.0	16	952	78	2 980	13	Total final consumption
Total final energy consumption	141	63		619	291		8.6	0.2	194	38	58	28	0.5	192			3.0	16	952	78	2 063	13	Total final energy consumption
Industry sector	141	63		73	0.2				4.4	28	12	28	0.5	144				16	572	78	1 086	10	Industry sector
Iron and steel	5.5	63		3.8					0.2	2.6	0.5		0.5	23					62	0.2	157		Iron and steel
Chemical & petrochemical	65			46					2.3	8.8	7.4	28		41					126	70	348		Chemical & petrochemical
Non-metallic minerals	40			7.8					0.5	7.0	0.3			11					21		79		Non-metallic minerals
Other industries	31			15	0.1				1.4	9.8	3.9			69				16	363	7.2	501	10	Other industries
Transport sector				454	289		2.0		160	1.9	0.4									5.6	459		Transport sector
Domestic air transport				2.0			2.0														2.0		Domestic air transport
Road				448	289				158		0.4									0.5	448		Road
Rail																				5.0	5.0		Rail
Inland waterways																				0.1	0.1		Inland waterways
Other transport				3.8					1.9	1.9											3.8		Other transport
Other sector				92	1.7		6.6	0.2	30	8.3	46			48			3.0		375		518	3.0	Other sector
Residential				41							41			31			2.9		190		265	2.9	Residential
Commerce and public services				34	1.3		6.6	0.2	14	7.1	4.1			17			0.1		173		224	0.1	Commerce and public services
Agriculture				2.7	0.4				2.3					0.2					8.2		11		Agriculture
Non-specified others				14					13	1.1									3.7		18		Non-specified others
Non-energy	1.8	9.2	2.2	904		801					13		91								917		Non-energy
2020																					2020		
Production			0.1											3.5	11	343	35	62			454	83	Production
Import	1 480	6.9	1 545	640	7.6	452	2.9			22	71		85	892					0.2		4 566	0.2	Import
Export		-3.3	- 21	- 494	- 72	-6.7	- 31		- 261	- 63	-1.3		- 58								- 519		Export
International marine bunkers				- 48					-5.6	- 42											- 48		International marine bunkers
International aviation bunkers				- 74			- 74														- 74		International aviation bunkers
Stock changes	- 31	-3.8	- 20	-6.0	-0.5	-7.4	0.2		6.7	-1.9			-3.2	-1.9							- 62		Stock changes
Total primary energy supply	1 449	-0.2	1 504	18	- 65	438	- 103		- 260	- 85	69		24	894	11	343	35	62			4 317	83	Total primary energy supply
Transfers			2.6	- 16	112	- 94	-5.7		1.0	- 35	0.8		4.9								- 14		Transfers
Total transformation sector	-1 339	115	-1 523	1 574	267	337	128	0.2	451	146	37	88	121	- 701	- 11	- 343	- 31	- 47	1 008	94	-1 203	- 68	Total transformation sector
Main activity producers	- 776			- 32					-2.2	- 30				- 706	- 11	- 343	- 12	-1.3	855	92	- 933	- 22	Main activity producers
Autoproducers	- 299	- 41		- 13					-0.1	-3.2		-8.6	-0.6	-3.2			- 19	- 45	152	2.3	- 266	- 46	Autoproducers
Gas processing														8.2							8.2		Gas processing
Petroleum refineries			-1 523	1 619	267	337	128	0.2	453	178	37	96	121								96		Petroleum refineries
Coal transformation	- 265	157																			- 108		Coal transformation
Other transformation																							Other transformation
Losses & own use		- 50		- 70	-0.1						-4.8	- 61	-4.1	- 22					- 104	- 22	- 267		Losses & own use
Discrepancy	32	-1.5	16	-6.4	2.1	-1.8	- 10		1.4	12	0.2		-9.8	2.5					2.7		45		Discrepancy
Total final consumption	142	64		1 500	315	678	9.7	0.2	194	38	102	27	136	173			3.9	16	907	73	2 878	14	Total final consumption
Total final energy consumption	140	54		642	315		9.7	0.2	194	38	59	27	0.4	173			3.9	16	907	73	2 009	14	Total final energy consumption
Industry sector	140	54		70	0.2				4.1	28	10	27	0.4	125				15	534	73	1 011	10	Industry sector
Iron and steel	7.6	54		3.6					0.2	2.6	0.4		0.4	17					57	0.2	140		Iron and steel
Chemical & petrochemical	64			44					2.2	8.5	6.3	27		35					117	65	324		Chemical & petrochemical
Non-metallic minerals	38																						

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Total																								Total	
Primary energy supply	1 880	2 508	3 316	3 473	3 647	3 791	3 970	4 009	4 145	4 317	4 174	4 095	4 505	4 369	4 331	4 413	4 508	4 455	4 482	4 456	4 510	4 404	4 317	4 446	Primary energy supply
Production	446	451	502	483	525	526	534	533	530	541	544	547	551	560	552	558	566	504	456	350	407	466	454	422	Production
Import	1 634	2 378	3 179	3 344	3 505	3 794	4 257	4 308	4 344	4 659	4 486	4 383	4 745	4 466	4 574	4 651	4 809	4 784	4 849	4 952	4 972	4 905	4 566	4 746	Import
Export	- 21	- 69	- 94	- 169	- 245	- 398	- 529	- 616	- 589	- 682	- 748	- 748	- 647	- 556	- 679	- 698	- 700	- 675	- 691	- 689	- 734	- 779	- 519	- 565	Export
Final energy consumption	1 026	1 344	1 681	1 676	1 759	1 803	1 877	1 914	1 942	1 947	1 859	1 805	1 932	1 957	1 929	1 951	1 954	1 945	1 978	1 976	2 005	1 989	2 009	2 063	Final energy consumption
Industry	495	622	808	791	845	865	904	912	949	975	910	859	966	986	975	997	985	964	974	977	1 028	1 007	1 011	1 086	Industry
Transport	263	386	446	447	464	464	482	496	494	478	450	456	471	478	469	468	472	482	496	490	477	480	484	459	Transport
Residential	123	166	212	213	218	224	228	240	237	240	238	240	238	241	235	233	237	237	247	246	245	245	259	265	Residential
Commerce & public services	102	127	177	186	192	205	215	225	231	231	231	227	233	228	224	228	232	234	234	237	226	225	227	224	Commerce & public services
Others	43	43	38	39	40	45	47	43	30	23	29	24	24	24	26	26	28	27	27	26	30	30	29	29	Others
Coal																								Coal	
Primary energy supply	417	635	1 086	1 140	1 233	1 317	1 374	1 404	1 462	1 533	1 470	1 410	1 517	1 569	1 531	1 565	1 578	1 529	1 548	1 570	1 578	1 548	1 449	1 549	Primary energy supply
Production	11	5.5	1.9																						Production
Import	447	692	1 072	1 155	1 220	1 290	1 423	1 417	1 466	1 535	1 499	1 377	1 507	1 572	1 516	1 572	1 568	1 548	1 535	1 576	1 558	1 579	1 480	1 581	Import
Export																-0.1	-0.1								Export
Transformation sector	- 314	- 500	- 901	- 973	-1 035	-1 137	-1 179	-1 225	-1 276	-1 332	-1 288	-1 239	-1 309	-1 351	-1 330	-1 358	-1 370	-1 317	-1 347	-1 391	-1 429	-1 364	-1 339	-1 384	Transformation sector
Power generation	- 198	- 371	- 717	- 780	- 840	- 941	- 978	-1 033	-1 081	-1 136	-1 098	-1 074	-1 081	-1 094	-1 087	-1 075	-1 076	-1 026	-1 046	-1 100	-1 135	-1 086	-1 075	-1 100	Power generation
Final energy consumption	102	120	150	156	168	160	170	172	180	179	163	157	173	200	194	199	190	193	197	183	138	140	140	141	Final energy consumption
Industry	102	120	150	156	168	160	170	172	180	179	163	157													

Major economic indicators of Chinese Taipei

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	20.28	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	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	161	230	307	302	319	333	356	375	396	424	427	420	463	480	491	503	527	534	546	564	580	598	618	658	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	325	467	622	613	647	674	721	760	803	858	865	851	939	973	995	1 019	1 067	1 083	1 107	1 143	1 175	1 211	1 252	1 334	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	166	279	331	299	307	317	347	374	386	407	416	391	444	484	496	513	535	534	543	591	609	611	673	776	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	7 916	10 834	13 829	13 540	14 204	14 739	15 705	16 490	17 370	18 484	18 567	18 203	20 014	20 702	21 092	21 547	22 507	22 780	23 220	23 949	24 591	25 327	26 200	28 046	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	16 042	21 956	28 025	27 439	28 786	29 870	31 827	33 417	35 202	37 458	37 626	36 890	40 559	41 954	42 745	43 667	45 612	46 163	47 057	48 533	49 834	51 326	53 095	56 835	GDP, PPP (constant 2017 USD)
Nominal (current USD)	8 205	13 119	14 908	13 397	13 686	14 066	15 317	16 456	16 934	17 757	18 081	16 933	19 197	20 866	21 295	21 973	22 874	22 780	23 091	25 080	25 838	25 908	28 549	33 059	Nominal (current USD)
Nominal GDP & its components (billions of current TWD) ²																									Nominal GDP & its components (billions of current TWD) ²
Gross domestic product	4 474	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	Gross domestic product
Private Final Consumption	2 341	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	Private Final Consumption
Government Final Consumption	806	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	Government Final Consumption
Gross Fixed Capital Formation	1 109	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	Gross Fixed Capital Formation
Changes in Inventories	31	45	93	- 63	- 44	13	101	34	44	16	178	- 183	197	34	17	- 25	38	42	- 10	- 25	85	- 26	5.5	184	Changes in Inventories
Exports	2 021	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	Exports
Imports	1 834	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	Imports
Real GDP & its components (billions of 2016 TWD) ²																									Real GDP & its components (billions of 2016 TWD) ²
Gross Domestic Product	5 161	7 408	9 863	9 725	10 258	10 691	11 435	12 050	12 746	13 619	13 728	13 506	14 890	15 437	15 780	16 172	16 935	17 183	17 555	18 137	18 642	19 213	19 864	21 161	Gross Domestic Product
Private Final Consumption	3 156	4 558	6 179	6 267	6 485	6 670	7 020	7 255	7 384	7 561	7 430	7 427	7 703	7 936	8 088	8 295	8 602	8 849	9 082	9 327	9 519	9 733	9 485	9 451	Private Final Consumption
Government Final Consumption	1 290	1 680	1 958	2 013	2 050	2 039	2 063	2 073	2 063	2 108	2 143	2 212	2 238	2 288	2 342	2 310	2 397	2 394	2 482	2 472	2 571	2 585	2 657	2 755	Government Final Consumption
Gross Fixed Capital Formation	1 532	2 444	3 355	2 771	2 819	2 852	3 250	3 352	3 404	3 460	3 065	2 793	3 325	3 278	3 236	3 464	3 585	3 681	3 808	3 798	3 919	4 355	4 622	5 291	Gross Fixed Capital Formation
Changes in Inventories	- 23	-3.3	64	- 44	- 49	17	92	35	47	15	182	- 179	214	48	33	- 37	55	52	- 10	- 29	112	- 35	8.2	145	Changes in Inventories
Exports	1 925	2 985	4 676	4 352	4 889	5 422	6 307	6 836	7 676	8 541	8 784	8 035	10 255	10 655	10 857	11 205	11 876	11 919	11 808	12 340	12 364	12 449	12 597	14 773	Exports
Imports	2 370	3 698	5 703	4 962	5 329	5 777	6 818	7 066	7 484	7 825	7 728	6 738	8 767	8 750	8 787	9 073	9 585	9 711	9 615	9 771	9 847	9 896	9 546	11 269	Imports
Sectoral shares of Real GDP (%) ²																									Sectoral shares of Real GDP (%) ²
Agriculture	7.3	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	2.0	1.9	1.8	1.6	Agriculture
Industry	28.8	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	Industry
Services	65.1	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	Services
Industrial production index (2016=100) ¹	N.A.	N.A.	N.A.	35.4	38.4	41.9	45.9	47.3	49.4	53.4	52.9	48.9	62.2	63.7	64.3	66.9	71.9	71.1	73.1	76.8	79.4	80.1	87.1	100.0	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	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	Exports, f.o.b.
Imports, c.i.f.	54.8	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	Imports, c.i.f.
Balance of payments (billions of current USD) ³																									Balance of payments (billions of current USD) ³
Balance on Goods and Services	7.1	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	Balance on Goods and Services
Current account	10.9	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	Current account
Overall balance	-3.9	-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	Overall balance
Foreign exchange rate (TWD/USD) ¹	26.89	26.49	31.23	33.81	34.58	34.42	33.43	32.18	32.53	32.84	31.54	33.06	31.65	29.47	29.62	29.77	30.37	31.91	32.33	30.44	30.16	30.93	29.58	28.02	Foreign exchange rate (TWD/USD) ¹
PPP conversion factor, GDP (TWD/USD) ⁴	13.27	13.07	15.41	16.68	17.06	16.98	16.50	15.88	16.05	16.21	15.56	16.31	15.62	14.54	14.62	14.69	14.99	15.75	15.95	15.02	14.88	15.26	14.60	13.83	PPP conversion factor, GDP (TWD/USD) ⁴
Price Indices																									Price Indices
GDP Deflator (2016=100) ²	86.7	99.8	104.7	104.1	103.6	102.2	101.4	99.9	98.6	98.1	95.5	95.7	94.4	92.4	93.0	94.4	96.0	99.3	100.0	99.2	98.6	98.4	100.3	102.7	GDP Deflator (2016=100) ²
Wholesale Price Index (2016=100) ²	87.2	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	Wholesale Price Index (2016=100) ²
Consumer Price Index (2021=100) ²	63.5	76.4	81.9	81.9	81.8	81.5	82.8	84.8	85.3	86.8	89.9	89.1	89.9	91.2	93.0	93.7	94.8	94.5	95.9	96.5	97.8	98.3	98.1	100.0	Consumer Price Index (2021=100) ²
Growth rate (%) ²																									Growth rate (%) ²
Real GDP	5.5	6.5	6.3	-1.4	5.5	4.2	7.0	5.4	5.8	6.9	0.8	-1.6	10.2	3.7	2.2	2.5	4.7	1.5	3.7	5.5	6.2	5.9	6.6	10.1	Real GDP
Population	1.1	0.9	0.8	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.2	0.0	-0.5	Population
Price																									Price
Wholesale prices	-0.6	7.4	1.8	-1.3	0.0	2.5	7.0	0.6	5.6	6.5	5.1	-8.7	5.5	4.3	-1.2	-2.4	-0.6	-8.9	-11.6	-2.1	4.6	1.3	-9.9	1.0	Wholesale prices
Consumer prices	4.1	3.7	1.2	0.0	-0.2	-0.3	1.6	2.3	0.6	1.8	3.5	-0.9	1.0	1.4	1.9	0.8	1.2	-0.3	1.1	2.0	2.0	1.9	0.3	1.7	Consumer prices

Source ¹ : "Taiwan Statistical Data Book", National Development Council (Chinese Taipei)

² : National Statistics of the Directorate-General of Budget, Accounting and Statistics (DGBAS)

³ : "Financial Statistics Monthly" Central Bank, Chinese Taipei

⁴ : Estimation by ESTO (1980-1989 GDP PPP estimated by ESTO)

⁵ : PPP in 2017 APERC estimation

Note : #N/A shows N.A. (not available)

: TWD shows New Taiwan Dollar, USD shows 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)

Energy prices in Chinese Taipei

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
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
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
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
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
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
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
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
Compressed Natural Gas													

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
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
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
White Spirit SBP													
Lubricants													
Bitumen													
Paraffin Waxes													
Petroleum Coke													
Natural Gas													
Natural Gas	TWD/m ³	14.64	17.25	20.35	19.15	17.38	11.01	9.70	11.66	12.68	10.96	8.35	8.60
Liquefied Natural Gas (export)	TWD/m ³	16.29	19.00	22.17	20.87	18.94	12.00	10.57	12.71	13.82	11.95	9.10	9.37
Compressed natural gas													
Electricity													
Industrial													
Commercial													
Residential													
Others													

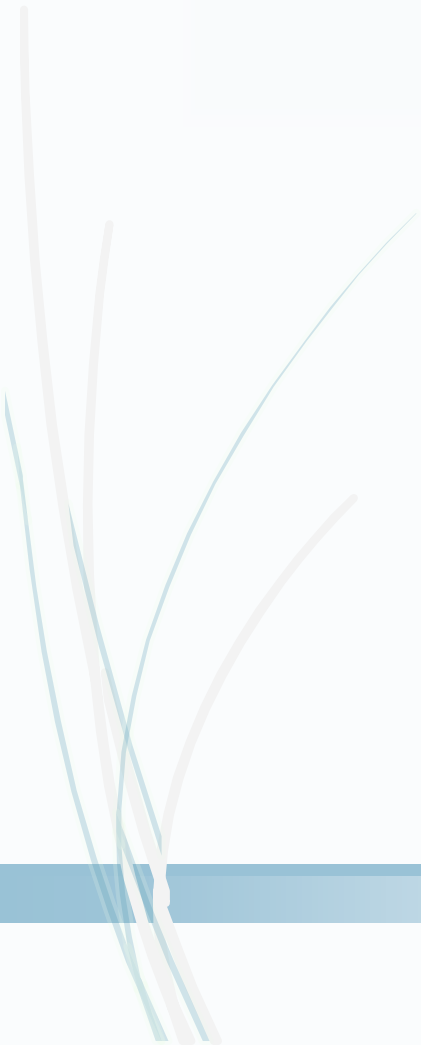
Energy prices in Chinese Taipei

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
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
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
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
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
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
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
Others													



Thailand



Energy balance table of Thailand

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																				2021			
Production	149		361											1 195	17		31	888		2 641	936	Production	
Import	235	397	1 877	60	22			0.5		8.7	2.5	27		626				1.8	120	3 316	1.8	Import	
Export	-1.6	-2.7	- 34	- 433	- 56		- 12	-1.2	- 236	- 120	-9.0						-0.6	-7.2		- 479	-0.6	Export	
International marine bunkers																						International marine bunkers	
International aviation bunkers				- 29			- 29													- 29		International aviation bunkers	
Stock changes	- 73	- 134	100	- 87	- 22		-0.1	- 57	-1.9	- 11	4.5			-2.0			1.1			- 195	1.1	Stock changes	
Total primary energy supply	309	260	2 303	- 488	- 57		- 40	- 58	- 229	- 128	23			1 820	17		31	890	113	5 255	938	Total primary energy supply	
Transfers																				Transfers			
Total transformation sector	- 273	- 29	-2 096	2 137	369		72	58	1 068	209	280		80	-1 272	- 17		- 31	- 444	672	-1 352	- 492	Total transformation sector	
Main activity producers	- 273	- 29		-6.3					-2.5	-3.9				-1 045	- 17		- 31	- 394	672	-1 124	- 442	Main activity producers	
Autoproducers																						Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			-2 096	1 874	369		72	58	1 071	213	91									- 222		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation				269							189		80	- 226			- 50			-6.7	- 50	Other transformation	
Losses & own use			-7.9	-5.0							-5.0			- 291					- 61	- 366		Losses & own use	
Discrepancy			- 199	-1.6	-0.1		-1.4										-0.3			- 201	-0.3	Discrepancy	
Total final consumption	36	231		1 642	313		31	0.2	840	81	297		80	257			0.5	446	724	3 336	446	Total final consumption	
Total final energy consumption	36	231		1 432	313		31	0.2	840	81	167			225			0.5	446	724	3 094	446	Total final energy consumption	
Industry sector	36	231		170	0.7			0.2	107	29	34			183				220	289	1 129	220	Industry sector	
Iron and steel	1.5	1.5		12					5.8	1.0	5.2			17					26	58		Iron and steel	
Chemical & petrochemical	1.9	5.5		22				0.1	9.0	2.1	11			82				13	44	168	13	Chemical & petrochemical	
Non-metallic minerals	16	171		11	0.2				8.0	0.9	2.1			44				19	23	284	19	Non-metallic minerals	
Other industries	16	53		125	0.5			0.1	84	25	15			41				189	195	618	189	Other industries	
Transport sector				1 067	312		31		640	52	31			42				90	0.8	1 200	90	Transport sector	
Domestic air transport				31			31													31		Domestic air transport	
Road				973	312				630		31			42				90		1 105	90	Road	
Rail				2.9					2.9										0.8	3.7		Rail	
Inland waterways				59					7.1	52										59		Inland waterways	
Other transport																						Other transport	
Other sector				195					93		102						0.5	136	434	765	136	Other sector	
Residential				77							77							136	196	409	136	Residential	
Commerce and public services				25							25						0.5		237	262	0.5	Commerce and public services	
Agriculture				93					93										1.4	94		Agriculture	
Non-specified others																						Non-specified others	
Non-energy				211							131		80	31						242		Non-energy	
2020																				2020			
Production	139		427											1 220	17		30	965		2 798	1 012	Production	
Import	223	406	1 857	79	44		5.0		2.0	0.9	26			595				1.9	106	3 268	1.9	Import	
Export	-0.8	-0.8	- 55	- 390	- 41		- 24	-0.3	- 208	- 105	- 11						-0.5	-9.4		- 456	-0.5	Export	
International marine bunkers																						International marine bunkers	
International aviation bunkers				- 75			- 75													- 75		International aviation bunkers	
Stock changes	- 38	- 80	130	- 137	- 48		0.9	- 57	- 17	- 14	-1.5			-3.7			1.5			- 127	1.5	Stock changes	
Total primary energy supply	323	325	2 360	- 523	- 44		- 93	- 58	- 223	- 118	13			1 811	17		30	967	97	5 407	1 014	Total primary energy supply	
Transfers																				Transfers			
Total transformation sector	- 278	- 33	-2 062	2 207	410		113	58	1 088	188	270		80	-1 333	- 17		- 30	- 423	668	-1 301	- 470	Total transformation sector	
Main activity producers	- 278	- 33		-2.2					-1.1	-1.2				-1 046	- 17		- 30	- 364	668	-1 101	- 410	Main activity producers	
Autoproducers																						Autoproducers	
Gas processing																						Gas processing	
Petroleum refineries			-2 119	1 946	410		113	58	1 089	189	87									- 173		Petroleum refineries	
Coal transformation																						Coal transformation	
Other transformation				56	263						183		80	- 288			- 60			- 28	- 60	Other transformation	
Losses & own use			- 16	- 88							- 88			- 233					- 57	- 395		Losses & own use	
Discrepancy	1.6		-8.9	5.6					3.3	2.3							0.8			-0.9	0.8	Discrepancy	
Total final consumption	47	292	272	1 601	366		20	0.2	869	72	195		80	244			0.4	545	708	3 711	546	Total final consumption	
Total final energy consumption	47	292		1 493	366		20	0.2	869	72	167			209			0.4	545	708	3 295	546	Total final energy consumption	
Industry sector	47	292		175	0.9			0.2	113	30	30			157				284	271	1 226	284	Industry sector	
Iron and steel	1.5	2.1		12					6.2	1.1	4.7			15					25	55		Iron and steel	
Chemical & petrochemical	2.5	6.9		22				0.1	9.6	2.2	9.8			70				15	41	158	15	Chemical & petrochemical	
Non-metallic minerals	22	216		12	0.3				8.5	0.9	1.9			38				22	22	331	22	Non-metallic minerals	
Other industries	21	67		129	0.6			0.1	89	26	14			35				247	183	682	247	Other industries	
Transport sector				1 123	365		20		660	42	37			52				100	0.8	1 276	100	Transport sector	
Domestic air transport				20			20													20		Domestic air transport	
Road				1 051	365				649		37			52				100		1 203	100	Road	
Rail				3.0					3.0										0.8	3.8			

Major energy indicators of Thailand

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
Total																									Total
Primary energy supply	1 850	2 898	2 990	3 106	3 276	3 549	4 024	4 005	4 067	4 331	4 431	4 578	4 945	4 995	5 175	5 479	5 684	5 504	5 717	5 556	5 828	5 729	5 407	5 255	Primary energy supply
Production	1 178	1 674	1 655	1 649	1 718	1 823	2 066	2 153	2 089	2 349	2 617	2 700	3 051	3 037	3 169	3 355	3 409	3 195	3 304	3 151	3 105	3 169	2 798	2 641	Production
Import	786	1 352	1 646	1 875	1 943	2 108	2 386	2 380	2 433	2 436	2 475	2 575	2 586	2 629	2 839	2 885	3 285	3 171	3 138	3 328	3 514	3 281	3 268	3 316	Import
Export	-37	-53	-205	-310	-332	-332	-351	-371	-428	-392	-491	-529	-507	-465	-544	-511	-443	-502	-461	-511	-533	-430	-456	-479	Export
Final energy consumption	1 196	1 873	1 903	1 960	2 094	2 262	2 448	2 536	2 559	2 566	2 659	2 719	2 845	2 794	2 919	2 961	2 999	3 214	3 246	3 282	3 408	3 496	3 295	3 094	Final energy consumption
Industry	369	625	695	714	782	866	933	1 002	1 032	1 067	1 100	1 045	1 134	1 123	1 177	1 123	1 127	1 177	1 239	1 198	1 282	1 315	1 226	1 129	Industry
Transport	402	686	671	664	704	758	830	857	826	833	820	870	897	895	933	942	986	1 130	1 152	1 241	1 264	1 297	1 276	1 200	Transport
Residential	286	380	314	323	333	342	372	377	381	402	420	426	463	466	435	480	484	489	468	459	465	472	429	409	Residential
Commerce & public services	64	116	133	140	149	157	161	160	176	187	207	206	235	230	252	245	231	252	263	272	277	289	268	262	Commerce & public services
Others	76	66	91	119	127	139	152	139	144	148	148	149	151	159	164	170	171	167	125	111	121	123	97	94	Others
Coal																									Coal
Primary energy supply	156	233	326	368	389	420	381	398	367	418	401	408	360	374	337	313	368	288	389	336	330	320	323	309	Primary energy supply
Production	151	233	218	239	240	231	235	219	199	208	200	202	210	253	201	184	189	162	178	178	178	147	139	149	Production
Import	5.5	0.2	109	130	149	188	141	179	168	210	200	207	187	127	198	205	294	291	275	266	215	223	223	235	Import
Export												-0.1		-0.1	-0.1	-0.1	-0.7	-0.7	-1.0	-1.4	-2.3	-1.0	-0.8	-1.6	Export
Transformation sector	-103	-144	-176	-188	-183	-187	-195	-198	-202	-287	-304	-283	-286	-283	-290	-295	-351	-265	-317	-297	-289	-279	-278	-273	Transformation sector
Power generation	-103	-144	-176	-188	-183	-187	-195	-198	-202	-287	-304	-283	-286	-283	-290	-295	-351	-265	-317	-297	-289	-279	-278	-273	Power generation
Final energy consumption	53	91	151	183	204	209	190	237	197	131	106	126	70	75	56	61	28	28	74	31	41	41	47	36	Final energy consumption
Industry	53	91	151	183	204	209	190	237	197	131	106	126	70	75	56	61	28	28	74	31	41	41	47	36	Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Coal products																									Coal products
Primary energy supply	2.5	3.1	2.2	1.6	2.0	1.8	59	49	129	168	221	189	278	309	262	253	172	205	170	215	441	286	325	260	Primary energy supply
Production																									Production
Import	2.5	3.1	2.2	1.6	2.0	1.8	59	49	129	168	223	224	263	312	294	254	263	292	299	322	441	343	406	397	Import
Export											-2.0	-0.7	-0.5	-0.1	-0.2	-0.2			-0.1	-0.3	-0.7	-0.8	-2.7	-2.7	Export
Transformation sector										-4.1	-0.6			-7.9	-4.0	-3.7	-5.0	-4.8	-2.4	-2.5	-2.7	-2.7	-3.3	-2.9	Transformation sector
Power generation										-4.1	-0.6			-7.9	-4.0	-3.7	-5.0	-4.8	-2.4	-2.5	-2.7	-2.7	-3.3	-2.9	Power generation
Final energy consumption	2.5	3.1	2.2	1.6	2.0	1.8	59	49	120	164	221	189	278	229	222	189	167	157	146	191	246	255	292	231	Final energy consumption
Industry	2.5	3.1	2.2	1.6	2.0	1.8	59	49	120	164	221	189	278	229	222	189	167	157	146	191	246	255	292	231	Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Crude oil & NGL																									Crude oil & NGL
Primary energy supply	509	1 048	1 565	1 579	1 656	1 790	2 102	2 055	1 998	2 148	2 127	2 246	2 287	2 253	2 377	2 416	2 507	2 608	2 580	2 653	2 656	2 412	2 360	2 303	Primary energy supply
Production	92	113	122	130	159	201	326	388	272	450	516	497	560	521	572	589	588	525	543	509	481	475	427	361	Production
Import	456	959	1 417	1 495	1 527	1 626	1 840	1 746	1 749	1 684	1 712	1 812													

Major economic indicators of Thailand

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	55.23	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	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion USD (constant 2015)	144	214	221	229	243	261	277	289	303	319	325	323	347	350	375	385	389	401	415	432	451	460	432	439	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	402	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	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	85	169	126	120	134	152	173	189	222	263	291	282	341	371	398	420	407	401	413	456	507	544	500	506	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	2 608	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	7 273	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	1 545	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	Nominal (current USD)
Nominal GDP & its components (billions of current THB) ¹																									Nominal GDP & its components (billions of current THB) ¹
Gross domestic product	2 184	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	Gross domestic product
Households and NPISHs final consumption expenditure	1 235	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	205	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	General government final consumption expenditure
Gross fixed capital formation	882	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	Gross fixed capital formation
Stock change	21	65	36	34	48	50	57	206	14	3.6	173	- 239	147	108	127	268	- 98	- 299	- 381	- 27	398	210	82	823	Stock change
Exports of goods and services	745	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	Exports of goods and services
Imports of goods and services	909	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	Imports of goods and services
Real GDP & its components (billions of 2002 THB) ¹																									Real GDP & its components (billions of 2002 THB) ¹
Gross Domestic Product	3 418	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	1 899	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	414	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	General government final consumption expenditure
Gross fixed capital formation	1 547	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	Gross fixed capital formation
Stock change	39	82	37	34	48	50	54	188	11	3.1	139	- 183	107	68	93	183	- 64	- 112	- 341	- 69	258	117	126	283	Stock change
Exports of goods and services	1 178	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	Exports of goods and services
Imports of goods and services	1 449	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																									Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	12.5	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	Agriculture, Fishery and Forestry
Industry	37.2	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	Industry
Services, etc.	N.A.	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	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.	100.0	97.8	107.6	109.7	105.3	105.4	106.8	108.7	112.7	N.A.	N.A.	N.A.	Industrial Production Index (2010=100)
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	23.1	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	Exports, f.o.b.
Imports, c.i.f.	33.0	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	-6.8	-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	Trade balance
Current account	-7.3	-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	Current account
Overall balance	1.8	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	Overall balance
Foreign exchange rate (THB/USD) ¹	25.59	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	Foreign exchange rate (THB/USD) ¹
PPP conversion factor, GDP (THB/USD) ¹	8.96	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	PPP conversion factor, GDP (THB/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2002=100) ³	63.9	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	GDP Deflator (2002=100) ³
Producer Price Index (2010=100) ²	42.5	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.	Producer Price Index (2010=100) ²
Consumer Price Index (2010=100) ²	49.8	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	111.3	112.5	113.3	112.3	113.7	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	11.2	8.1	4.5	3.4	6.1	7.2	6.3	4.2	5.0	5.4	1.7	-0.7	7.5	0.8	7.2	2.7	1.0	3.1	3.4	4.2	4.2	2.1	-6.1	1.5	Real GDP
Population	1.7	1.4	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	Population
Price																									Price
Producer prices	3.5	8.2	3.9	2.5	1.7	4.0	6.7	9.1	7.1	3.2	12.4	-3.8	9.4	5.4	1.0	0.3	0.1	-4.1	-1.2	0.7	0.4	-1.0	N.A.	N.A.	Producer prices
Consumer prices	5.9	5.8	1.6	1.6	0.7	1.8	2.8	4.5	4.6	2.2	5.5	-0.8	3.2	3.8	3.0	2.2	1.9	-0.9	0.2	0.7	1.1	0.7	-0.8	1.2	Consumer prices

Source ¹: World Development Indicators, World Bank²: International Financial Statistics, International Monetary Fund³: Calculated from ¹ and ² by ESTO

Note : N.A. means "not available"

: THB means Baht, 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)

Energy prices in Thailand

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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
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
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
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
Lignite	THB/tonne	15 493	17 155	15 156	13 860	13 751	14 502	1 329	1 028	942	907	972	963
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	13 565
Coal Tar													
BKB/PB	THB/tonne	1 978		19 163	1 759	1 759	1 572	1 572	1 912	1 707	1 707		
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
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
Agricultural 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
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
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
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
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
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
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
Gasohol 95 (E85)	THB/L							13.57	15.48	15.83	15.79	14.70	18.26
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
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
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
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
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
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
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
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
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
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
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	
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
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	
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
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
Electricity													



United States

Energy balance table of the United States

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																						2021	
Production	11 743		30 383											34 005	913	8 853	2 456	4 357			92 710	7 541	Production
Import	116		14 450	3 593	1 617	26	342	1.7	626	442	234		305	2 818				91	191		21 262	91	Import
Export	-2 097	- 55	-7 243	-8 762	-1 754		- 248	- 11	-2 270	- 221	-2 506		-1 753	-6 677				- 133	- 50		-25 018	- 133	Export
International marine bunkers				- 724					- 236	- 489								-54			- 729	-54	International marine bunkers
International aviation bunkers				- 843			- 843														- 843		International aviation bunkers
Stock changes	922	3.4	762	352	60	1.0	21	0.9	171	34	67		-2.2	129				3.8			2 173	3.8	Stock changes
Total primary energy supply	10 683	- 48	38 352	-6 384	- 77	27	- 727	-8.0	-1 709	- 234	-2 205		-1 451	30 275	913	8 853	2 456	4 313	142		89 555	7 497	Total primary energy supply
Transfers			-5 513	5 888	225		3.3	-0.3	74		3 276		2 310								374		Transfers
Total transformation sector	-10 230	242	-33 214	31 885	14 949	330	2 692	18	9 158	393	465	620	3 259	-11 826	- 913	-8 853	-2 319	- 786	15 675	430	-19 909	-3 857	Total transformation sector
Main activity producers	-9 584	-7.3		- 288			-0.9	-1.5	- 80	- 107			- 98	-11 073	- 908	-8 853	-2 178	- 559	14 950	430	-18 071	-3 518	Main activity producers
Autoproducers	- 35	- 15		- 75			-0.1		-2.1	-0.5		- 67	-4.9	- 641	-4.4		- 141	- 227	724		- 413	- 340	Autoproducers
Gas processing	- 74													48							- 26		Gas processing
Petroleum refineries			-33 415	32 247	14 949	330	2 693	19	9 241	501	465	687	3 361								-1 168		Petroleum refineries
Coal transformation	- 536	265																			- 272		Coal transformation
Other transformation			201											- 161							40		Other transformation
Losses & own use		- 44		-1 133	- 28		-1.9		- 86	- 22	-9.9	- 568	- 419	-2 859				-2.9	-1 999	- 195	-6 233	-2.9	Losses & own use
Discrepancy	- 36	0.5	828	85					85					- 114				- 85			679	- 85	Discrepancy
Total final consumption	418	150	453	30 341	15 069	357	1 967	9.5	7 523	138	1 525	52	3 700	15 476			137	3 439	13 818	235	64 465	3 552	Total final consumption
Total final energy consumption	418	150		25 031	15 069		1 967	9.5	7 478	138	312		56	14 799			137	3 439	13 818	235	58 025	3 552	Total final energy consumption
Industry sector	403	150		843	5.6				650	96	35		56	5 678				1 354	3 019	186	11 634	1 336	Industry sector
Iron and steel	5.9	124		9.4					3.7	5.5	0.3			264				0.1	207	6.8	617	0.1	Iron and steel
Chemical & petrochemical	63			84					41	25	3.9		15	2 186				12	414	114	2 874	3.5	Chemical & petrochemical
Non-metallic minerals	166			39					12	3.7	0.8		23	376				24	149	0.1	754	24	Non-metallic minerals
Other industries	168	26		710	5.6				593	62	30		19	2 852				1 318	2 249	65	7 389	1 309	Other industries
Transport sector				22 598	14 838		1 967		5 770	22	2.3			1 166				1 470	46		25 280	1 470	Transport sector
Domestic air transport				1 988	21		1 967														1 988		Domestic air transport
Road				19 832	14 678				5 152		2.3			54				1 439	26		21 351	1 439	Road
Rail				462					462									24	20		506	24	Rail
Inland waterways				317	139				156	22								6.6			323	6.6	Inland waterways
Other transport														1 112							1 112		Other transport
Other sector	14			1 589	225			9.5	1 059	21	275			7 954			137	615	10 752	49	21 111	746	Other sector
Residential				601				8.8	408		185			4 644			63	474	5 365		11 147	537	Residential
Commerce and public services	14			516	124			0.7	303	20	69			3 248			74	76	4 747	49	8 725	144	Commerce and public services
Agriculture				472	102				348	0.6	22			62				65	206		805	65	Agriculture
Non-specified others																			434		434		Non-specified others
Non-energy			453	5 310		357			44		1 213	52	3 644	677							6 440		Non-energy
2020																							2020
Production	10 788		30 208											32 984	1 034	8 980	2 181	4 130			90 304	7 153	Production
Import	107	4.2	13 947	3 021	1 192	29	324	2.1	523	477	214		259	2 471				80	221		19 851	80	Import
Export	-1 702	- 18	-7 555	-8 569	-1 520		- 208	- 12	-2 519	- 326	-2 324		-1 660	-5 203				- 134	- 51		-23 231	- 134	Export
International marine bunkers				- 639					- 215	- 423								- 15			- 654	- 15	International marine bunkers
International aviation bunkers				- 663			- 663														- 663		International aviation bunkers
Stock changes	103	-1.1	- 339	-9.5	37	0.6	1.3	2.0	- 124	-0.7	35		38	- 147				-9.1			- 402	-9.1	Stock changes
Total primary energy supply	9 295	- 15	36 261	-6 860	- 290	30	- 545	-8.4	-2 335	- 273	-2 075		-1 363	30 105	1 034	8 980	2 181	4 052	170		85 203	7 075	Total primary energy supply
Transfers			-5 303	5 635	159		0.9	0.3	66	- 19	3 161		2 267								332		Transfers
Total transformation sector	-8 831	189	-31 398	30 334	13 949	327	2 094	23	9 447	345	399	596	3 154	-12 225	-1 034	-8 980	-2 052	- 79					

Major indicators of the United States

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Petajoules
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	92 770	91 512	89 755	91 337	92 431	91 451	90 468	90 099	92 652	92 603	85 203	89 555	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	72 153	74 589	75 878	78 290	84 030	84 541	80 061	83 275	90 193	96 556	90 304	92 710	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	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	Export
Final energy consumption	49 173	51 790	58 332	57 221	57 242	58 071	58 842	58 890	58 709	59 569	58 278	55 342	57 678	56 290	54 685	57 028	57 413	57 527	57 703	57 503	60 288	59 753	55 070	58 025	Final energy consumption
Industry	11 880	11 422	13 912	12 974	11 588	11 568	11 970	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	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	25 606	25 898	26 047	26 579	26 543	22 859	25 280	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	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	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	Others
Coal																									Coal
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	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	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	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	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	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	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	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	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	Commerce & public services
Others	240				10	15	24	18	1.0	2.0															Others
Coal products																									Coal 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	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	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	Export
Transformation sector	578	324	283	246	388	396	486	487	385	494	254	205	282	273	243	270	266	235	215	251	259	238	189	242	Transformation sector
Power generation	-99	-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	Power generation
Final energy consumption	534	316	289	258	242	292	375	265	296	293	217	142	220	218	181	189	183	146	171	175	189	168	138	150	Final energy consumption
Industry	534	316	289	258	242	292	375	265	296	293	217	142	220	218	181	189	183	146	171	175	189	168	138	150	Industry
Transport																									Transport
Residential																									Residential
Commerce & public services																									Commerce & public services
Others																									Others
Crude oil & NGL																									Crude oil & NGL
Primary energy supply	32 805	34 318	37 139	37 523	37 003	37 781	38 598	38 167	38 432	38 154	37 304	36 046	36 696	36 715	36 681	36 733	38 121	39 085	39 447	40 577	41 485	41 098	36 261	38 352	Primary energy supply
Production	18 110	16 657	15 307	15 171	15 072	14 686	14 197	13 504	13 306	13 291	13 102	14 048	14 553	14 994	17 133	19 479	22 780	24 384	23 452	24 738	28 687	31 940	30 208	30 383	Production
Import	14 697	17 546	21 950	22 651	22 142	23 448	24 865	25 100	25 318	25 049	24 661	22 449	22 599	21 893	20 125	18 032	16 973	17 097	18 304	18 544	18 083	16 073	13 947	14 450	Import
Export	-88	-95	-258	-140	-150	-145	-160	-206	-235	-244	-272	-353	-389	-377	-458	-845	-1 488	-1 896	-2 128	-3 302	-5 242	-7 085	-7 555	-7 243	Export
Transformation sector	-31 622	-32 535	-35 029	-34 934	-34 683	-35 222	-35 843	-35 689	-35 877	-35 760	-35 639	-33 795	-34 315	-34 351	-34 345	-34 568	-35 451	-35 612	-36 032	-36 756	-37 426	-36 530	-31 398	-33 214	Transformation sector
Petroleum refineries	-31 622	-32 535	-35 029	-34 934	-34 683	-35 222	-35 843	-35 689	-35 877	-35 760	-35 639	-33 795	-34 315	-34 519	-34 525	-34 763	-35 651	-35 814	-36 240	-36 968	-37 637	-36 733	-31 595	-33 415	Petroleum refineries
Petroleum products																									Petroleum products
Primary energy supply	-1 118	-1 428	-666	-441	-251	-99	151	735	-163	-317	-1 796	-2 509	-2 929	-4 015	-4 364	-4 344	-5 754	-6 029	-6 609	-7 490	-7 919	-7 804	-6 860	-6 384	Primary energy supply
Import	2 606	1 751	3 175	3 411	3 226	3 560	4 150	4 937	4 716	4 524	3 871	3 415	3 490	3 136	2 932	2 928	2 807	3 129	3 129	3 076	3 194	3 414	3 021	3 593	Import
Export	-1 540	-1 639	-1 858	-1 869	-1 886	-1 998	-2 049	-2 224	-2 496	-2 752	-3 571	-3 837	-4 422	-5 389	-5 642	-5 820	-6 669	-7 184	-7 843	-8 769	-9 263	-9 186	-8 569	-8 762	Export
Transformation sector	30 405	31 976	32 913	32 629	33 874	34 181	34 833	34 669	35 420	35 263	35 438	33 445	34 746	33 392	33 144	33 549	34 308	34 773	35 227	35 720	36 408	35 514	30 334	31 885	Transformation sector
Power generation	-1 141	-634	-2 416	-2 528	-1 110	-1 356	-1 401	-1 396	-752	-764	-553	-475	-454	-366	-314	-356	-393	-372	-316	-294	-398	-324	-358	-362	Power generation
Petroleum refineries	31 561	32 610	35 329	35 157	34 985	35 538	36 234	36 065	36 172	36 027	35 992	33 920	35 200	33 758	33 458	33 905	34 701	35 145	35 542	36 013	36 806	35 838	30 692	32 247	Petroleum refineries
Final energy consumption	24 205	24 930	27 542	27 890	27 870	28 307	29 008	29 179	28 955	28 694	27 161	25 833	26 694	25 926	24 516	25 277	25 070	26 080	26 236	26 224	26 735	26 362	22 773	25 031	Final energy consumption
Industry	1 853	1 121	1 074	1 320	1 197	1 195	1 433	1 472	1 303	1 327	1 157	1 157	1 265	849	843	854	749	811	846	769	826	706	761	843	Industry
Transport	19 753	21 277	23 844	23 883	24 159	24 550	24 883	25 126	25 095	25 063	23 660	22 509	23 258	22 563	22 031	22 638	22 643	23 505	23 648	23 793	24 206	24 078	20 495	22 5	

Major indicators of the United States

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹⁾	249.62	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	Population (millions) ¹⁾
Gross domestic product ²⁾																									Gross domestic product ²⁾
Real term, billion USD (constant 2015)	9 811	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	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	10 098	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	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	5 963	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	Nominal, billion USD (current)
GDP per capita ³⁾																									GDP per capita ³⁾
Real term (constant 2015 USD)	39 303	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	40 451	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	23 889	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	Nominal (current USD)
Nominal GDP & its components (billions of current USD) ¹⁾																									Nominal GDP & its components (billions of current USD) ¹⁾
Gross domestic product	5 963	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	Gross domestic product
Households and NPISHs final consumption expenditure	3 809	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	948	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	General government final consumption expenditure
Gross fixed capital formation	1 269	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	Gross fixed capital formation
Stock change	15	31	55	- 38	20	14	64	58	69	34	- 29	- 151	54	46	71	105	84	137	36	32	59	73	- 56	- 19	Stock change
Exports of goods and services	552	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	Exports of goods and services
Imports of goods and services	630	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	Imports of goods and services
Real GDP & its components (billions of 2015 USD) ¹⁾																									Real GDP & its components (billions of 2015 USD) ¹⁾
Gross Domestic Product	9 811	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	6 212	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	2 001	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	General government final consumption expenditure
Gross fixed capital formation	1 727	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	Gross fixed capital formation
Stock change	21	40	78	- 53	24	20	82	63	87	40	- 32	- 176	57	46	71	108	86	137	35	36	66	73	- 54	- 19	Stock change
Exports of goods and services	660	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	Exports of goods and services
Imports of goods and services	719	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	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.	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	Agriculture, Fishery and Forestry
Industry	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	Industry
Services, etc.	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	Services, etc.
Industrial production index (2010=100) ²⁾	68.2	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	Industrial production index (2010=100) ²⁾
External trade (billions of current USD) ¹⁾																									External trade (billions of current USD) ¹⁾
Exports, f.o.b.	393.6	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	Exports, f.o.b.
Imports, c.i.f.	517.0	770.9	1 259.3	1 179.2	1 200.2	1 303.1	1 525.7	1 732.7	1 918.1	2 020.4	2 169.5	1 605.3	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²⁾																									Balance of payments (billions of current USD) ²⁾
Trade balance	-111.0	-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	Trade balance
Current account	-79.0	-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	Current account
Overall balance	-26.0	-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	Overall balance
Foreign exchange rate (USD/USD) ¹⁾	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) ¹⁾
PPP conversion factor, GDP (USD/USD) ¹⁾	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) ¹⁾
Price Indices																									Price Indices
GDP Deflator (2015=100) ³⁾	60.8	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	GDP Deflator (2015=100) ³⁾
Producer Prices Index (2010=100) ²⁾	62.9	67.5	71.8	72.6	71.0	74.8	79.4	85.2	89.2	93.5	102.6	93.6	100.0	103.8	105.4	106.8	108.0	107.1	108.1	110.9	113.8	115.5	116.3	126.7	Producer Prices Index (2010=100) ²⁾
Consumer Price Index (2010=100) ¹⁾	59.9	69.9	79.0	81.2	82.5	84.4	86.6	89.6	92.4	95.1	98.7	98.4	100.0	103.2	105.3	106.8	108.6	108.7	110.1	112.4	115.2	117.2	118.7	124.3	Consumer Price Index (2010=100) ¹⁾
Growth rate (%) ³⁾																									Growth rate (%) ³⁾
Real GDP	1.9	2.7	4.1	1.0	1.7	2.8	3.9	3.5	2.8	2.0	0.1	-2.6	2.7	1.5	2.3	1.8	2.3	2.7	1.7	2.2	2.9	2.3	-2.8	5.9	Real GDP
Population	1.1	1.2	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	1.0	0.2	Population
Price																									Price
Producer prices	3.6	3.6	5.8	1.1	-2.3	5.3	6.2	7.3	4.7	4.8	9.8	-8.8	6.8	3.8	1.6	1.3	1.1	-0.8	0.9	2.5	2.7	1.5	0.6	9.0	Producer prices
Consumer prices	5.4	2.8	3.4	2.8	1.6	2.3	2.7	3.4	3.2	2.9	3.8	-0.4	1.6	3.2	2.1	1.5	1.6	0.1	1.3	2.1	2.4	1.8	1.2	4.7	Consumer prices

Source ¹⁾ : World Development Indicators, World Bank²⁾ : International Financial Statistics, International Monetary Fund³⁾ : Calculated from ¹⁾ and ²⁾ by ESTO

Note : N.A. means "not available"

: USD means United States Dollar

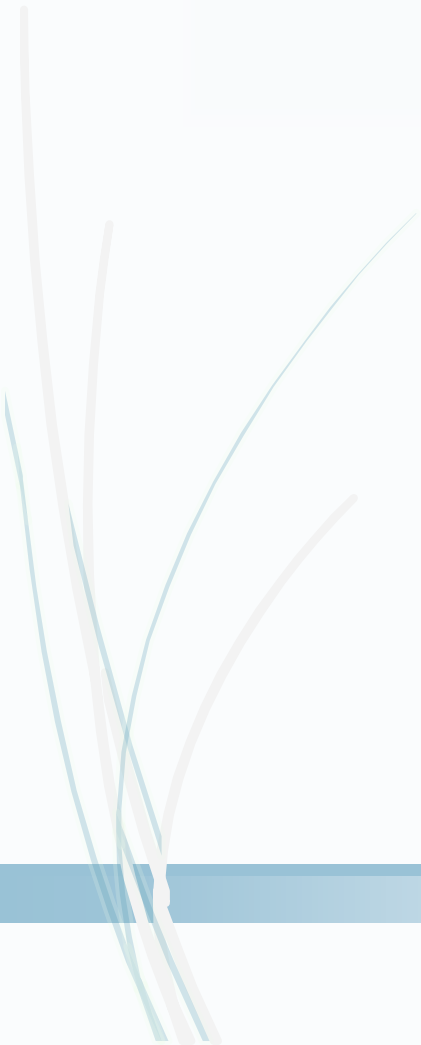
: PPP means Purchasing Power Parity

: 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)



Viet Nam



Energy balance table of Viet Nam

	Coal	Coal products	Crude oil & NGL	Total	Petroleum products									Gas	Hydro	Nuclear	Geothermal, solar, etc.	Others	Electricity	Heat	Total	Total renewables	Petajoules
					Gasoline	Naphtha	Jet fuel	Kerosene	Gas/ diesel oil	Fuel oil	LPG	Refinery gas	Other products										
2021																					2021		
Production	991		387											281	283		112	412		2 465	806	Production	
Import	853		429	410	32		45	1.6	182	25	90		35					0.2	5.1		1 697	0.2	Import
Export	- 42		- 141	- 112	- 18		- 30		- 30	- 17	- 16		-0.5					-4.9	-2.1		- 302	-4.9	Export
International marine bunkers																							International marine bunkers
International aviation bunkers																							International aviation bunkers
Stock changes	62		6.1	- 25	-0.7		-7.9		- 16												43		Stock changes
Total primary energy supply	1 864		681	274	12		7.5	1.6	136	7.5	74		34	281	283		112	407	3.0		3 904	802	Total primary energy supply
Transfers				16							16										16		Transfers
Total transformation sector	-1 152		- 681	600	238		13		262	7.4	25		55	- 188	- 283		- 112	- 87	919		- 983	- 482	Total transformation sector
Main activity producers	-1 152			-2.2					-0.6	-1.6				- 188	- 283		- 112	- 49	919		- 867	- 444	Main activity producers
Autoproducers																							Autoproducers
Gas processing																							Gas processing
Petroleum refineries			- 681	602	238		13		262	9.0	25		55								- 79		Petroleum refineries
Coal transformation																							Coal transformation
Other transformation																		- 38			- 38	- 38	Other transformation
Losses & own use														- 17					- 123		- 140		Losses & own use
Discrepancy				- 29	-9.5				- 20										-3.0		- 32		Discrepancy
Total final consumption	712			861	241		21	1.6	378	15	115		89	77				320	796		2 765	320	Total final consumption
Total final energy consumption	692			771	241		21	0.9	378	15	115			35				320	796		2 614	320	Total final energy consumption
Industry sector	684			117					91	8.4	18			35				227	419		1 482	227	Industry sector
Iron and steel	51			36					31	1.6	3.5			11					68		165		Iron and steel
Chemical & petrochemical	38			6.1					3.8	1.2	1.1			15					38		96		Chemical & petrochemical
Non-metallic minerals	442			16					9.6	3.6	3.1			6.4				9.5	41		515	9.5	Non-metallic minerals
Other industries	153			59					47	1.9	10			2.8				218	273		706	218	Other industries
Transport sector				455	235		21		193	6.6				0.3				0.5			456	0.5	Transport sector
Domestic air transport				21			21														21		Domestic air transport
Road				395	235				160					0.3				0.5			396	0.5	Road
Rail				1.0					1.0												1.0		Rail
Inland waterways				39					32	6.6											39		Inland waterways
Other transport																							Other transport
Other sector	8.4			198	6.0			0.9	94		98							92	377		676	92	Other sector
Residential	8.2			90				0.9			89							72	261		432	73	Residential
Commerce and public services	0.2			9.3					0.9		8.4							1.3	86		97	1.3	Commerce and public services
Agriculture				99	6.0				93									19	19		136	19	Agriculture
Non-specified others																			10		10		Non-specified others
Non-energy	20			90				0.7					89	42							151		Non-energy
2020																					2020		
Production	890		377											327	262		38	318		2 212	618	Production	
Import	1 285		503	445	68		51	1.8	206	28	83		8.0					0.3	11		2 244	0.3	Import
Export	- 21		- 196	- 94	- 13		- 26		- 27	- 15	- 11		-1.8					-4.2	-5.6		- 321	-4.2	Export
International marine bunkers																							International marine bunkers
International aviation bunkers																							International aviation bunkers
Stock changes	- 76		-9.0	- 46	- 27		-2.2		- 15	-2.5			0.6								- 131		Stock changes
Total primary energy supply	2 077		674	306	28		23	1.8	164	10	72		6.8	327	262		38	314	5.4		4 004	614	Total primary energy supply
Transfers				17							17										17		Transfers
Total transformation sector	-1 230		- 674	559	221		10		260	4.8	19		44	- 247	- 262		- 38	- 75	874		- 1 094	- 375	Total transformation sector
Main activity producers	-1 230			-7.7					-3.4	-4.3				- 247	- 262		- 38	- 39	874		- 951	- 339	Main activity producers
Autoproducers																							Autoproducers
Gas processing																							Gas processing
Petroleum refineries			- 674	566	221		10		263	9.1	19		44								- 108		Petroleum refineries
Coal transformation																							Coal transformation
Other transformation																		- 36			- 36	- 36	Other transformation
Losses & own use														- 18					- 110		- 128		Losses & own use
Discrepancy	9.5			- 61	-3.6				- 57										-3.8		- 55		Discrepancy
Total final consumption	856			821	246		33	1.8	367	15	108		51	63				239	766		2 745	239	Total final consumption
Total final energy consumption	831			769	246		33	1.0	367	15	108			33				239	766		2 638	239	Total final energy consumption
Industry sector	815			64					39	7.4	18			32				133	394		1 437	133	Industry sector
Iron and steel	60			7.0					2.1	1.5	3.5			9.9					62		139		Iron and steel
Chemical & petrochemical	45			3.8					1.6	1.1	1.1			13					35		98		Chemical & petrochemical
Non-metallic minerals	469			10					4.1	3.2	3.0			5.9				5.6	41		532	5.6	Non-metallic minerals
Other industries	240			42					31	1.7	10.0			2.6				127	256		668	127	Other industries
Transport sector				517	241		33		237	7.6				0.9				2.7			521	2.7	Transport sector
Domestic air transport				33			33														33		Domestic air transport
Road				440	241				200					0.9				2.7			444	2.7	Road
Rail				1.3																			

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	
Total																								Total	
Primary energy supply	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	2 970	3 527	3 952	4 004	3 904	Primary energy supply
Production	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	2 430	2 464	2 434	2 212	2 465	Production
Import	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	1 697	Import
Export	- 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	- 302	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	2 140	2 418	2 587	2 638	2 614	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	1 262	1 437	1 482	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	456	Transport
Residential	20	45	80	93	104	120	154	137	151	157	168	185	365	367	379	389	416	369	451	442	441	440	430	432	Residential
Commerce & public services	14	26	44	52	54	54	64	70	67	65	66	69	69	79	77	85	89	80	87	96	111	122	111	97	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	143	139	147	Others
Coal																								Coal	
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	1 506	1 874	2 077	1 864	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	Production
Import								2.4	2.7	16	16	19	27	32	40	53	73	162	309	344	533	1 027	1 285	853	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	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	- 1 152	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	- 1 152	Power generation
Final energy consumption	55	109	135	157	168	182	279	207	231	252	343	373	414	423	405	442	480	313	342	364	543	626	831	692	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	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	29	24	18	16	8.2	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	1.6	1.4	1.1	0.3	0.2	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 products																								Coal 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																								Primary energy supply	
Production	115	326	694	714	708	750	855	793	733	679	635	695	639	648	715	713	743	721	645	577	506	469	377	387	Production
Import																		7.8	19	27	230	338	503	429	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	- 141	Export
Transformation sector																								Transformation sector	
Petroleum refineries																								Petroleum refineries	
Petroleum products																								Petroleum products	
Primary energy supply	115	197	325	354	397	414	424	497	510	581	574	597	453	423	381	330	396	457	486	545	430	387	306	274	Primary energy supply
Import	123	214	372	387	425	438	489	514	510	621	618	620	515	513	450	384	444	536	592	652	571	532	445	410	Import
Export	- 0.8	- 19	- 47	- 33	- 27	- 24	- 65	- 17		- 41	- 44	- 76	- 77	- 91	- 72	- 55	- 49	- 54	- 76	- 106	- 130	- 144	- 94	- 112	Export
Transformation sector	- 16	- 15	- 55	- 59	- 53	- 31	- 20	- 28	- 20	- 34	- 25	36	194	211	236	283	245	285	310	295	439	515	559	600	Transformation sector
Power generation	- 16	- 15	- 55	- 59	- 53	- 31	- 20	- 28	- 20	- 34	- 25	- 27	- 49	- 25	- 53	- 6.1	- 7.3	- 8.7	- 14	- 12	- 8.5	- 16	- 7.7	- 2.2	Power generation
Petroleum refineries												63	242	236	241	289	253	293	325	296	447	532	566	602	Petroleum refineries
Final energy consumption	97	171	277	302	359	396	417	484	498	515	528	604	581	619	600	585	602	693	748	803	838	873	769	771	Final energy consumption
Industry	19	31	63	64	81	91	94	105	94	90	85	90	75	78	67	60	69	77	75	68	67				

Major economic indicators of Viet Nam

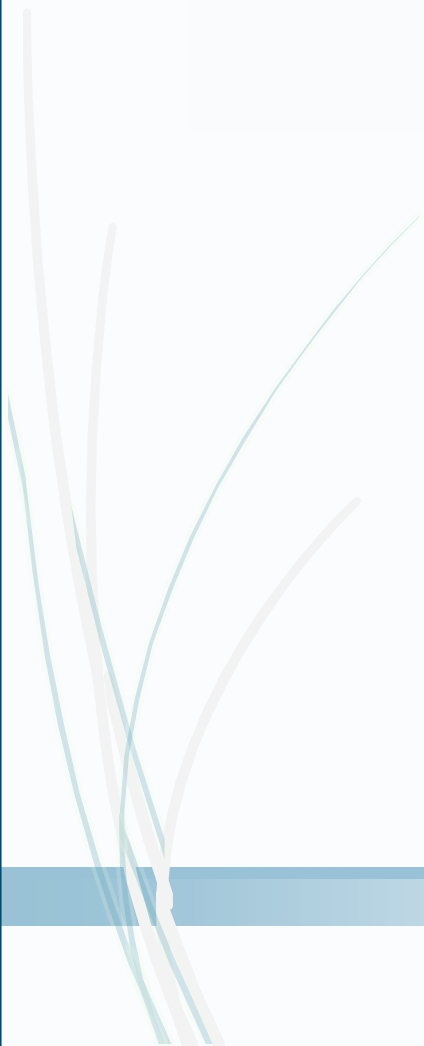
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Population (millions) ¹	55.23	59.42	63.07	63.65	64.22	64.78	65.31	65.82	66.32	66.83	67.33	67.81	68.27	68.71	69.16	69.58	69.96	70.29	70.61	70.90	71.13	71.31	71.48	71.60	Population (millions) ¹
Gross domestic product ³																									Gross domestic product ³
Real term, billion U SD (constant 2015)	144	214	221	229	243	261	277	289	303	319	325	323	347	350	375	385	389	401	415	432	451	460	432	439	Real term, billion U SD (constant 2015)
GDP, billion U SD (PPP, constant 2017)	402	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	GDP, billion U SD (PPP, constant 2017)
Nominal, billion USD (current)	85	169	126	120	134	152	173	189	222	263	291	282	341	371	398	420	407	401	413	456	507	544	500	506	Nominal, billion USD (current)
GDP per capita ³																									GDP per capita ³
Real term (constant 2015 USD)	2 608	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	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	7 273	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	GDP, PPP (constant 2017 USD)
Nominal (current USD)	1 545	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	Nominal (current USD)
Nominal GDP & its components (billions of current THB) ¹																									Nominal GDP & its components (billions of current THB) ¹
Gross domestic product	2 184	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	Gross domestic product
Households and NPISHs final consumption expenditure	1 235	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	205	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	General government final consumption expenditure
Gross fixed capital formation	882	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	Gross fixed capital formation
Stock change	21	65	36	34	48	50	57	206	14	3.6	173	- 239	147	108	127	268	- 98	- 299	- 381	- 27	398	210	82	823	Stock change
Exports of goods and services	745	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	Exports of goods and services
Imports of goods and services	909	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	Imports of goods and services
Real GDP & its components (billions of 2002 THB) ¹																									Real GDP & its components (billions of 2002 THB) ¹
Gross Domestic Product	3 418	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	Gross Domestic Product
Households and NPISHs final consumption expenditure	1 899	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	Households and NPISHs final consumption expenditure
General government final consumption expenditure	414	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	General government final consumption expenditure
Gross fixed capital formation	1 547	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	Gross fixed capital formation
Stock change	39	82	37	34	48	50	54	188	11	3.1	139	- 183	107	68	93	183	- 64	- 112	- 341	- 69	258	117	126	283	Stock change
Exports of goods and services	1 178	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	Exports of goods and services
Imports of goods and services	1 449	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	Imports of goods and services
Sectoral shares of Real GDP (%) ¹																									Sectoral shares of Real GDP (%) ¹
Agriculture, Fishery and Forestry	12.5	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	Agriculture, Fishery and Forestry
Industry	37.2	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	Industry
Services, etc.	N.A.	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	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.	100.0	97.8	107.6	109.7	105.3	105.4	106.8	108.7	112.7	N.A.	N.A.	N.A.	Industrial Production Index (2010=100)
External trade (billions of current USD) ¹																									External trade (billions of current USD) ¹
Exports, f.o.b.	23.1	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	Exports, f.o.b.
Imports, c.i.f.	33.0	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	Imports, c.i.f.
Balance of payments (billions of current USD) ²																									Balance of payments (billions of current USD) ²
Trade balance	-6.8	-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	Trade balance
Current account	-7.3	-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	Current account
Overall balance	1.8	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	Overall balance
Foreign exchange rate (THB/USD) ¹	25.59	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	Foreign exchange rate (THB/USD) ¹
PPP conversion factor, GDP (THB/USD) ¹	8.96	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	PPP conversion factor, GDP (THB/USD) ¹
Price Indices																									Price Indices
GDP Deflator (2002=100) ³	63.9	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	GDP Deflator (2002=100) ³
Producer Price Index (2010=100) ²	42.5	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.	Producer Price Index (2010=100) ²
Consumer Price Index (2010=100) ²	49.8	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	111.3	112.5	113.3	112.3	113.7	Consumer Price Index (2010=100) ²
Growth rate (%) ³																									Growth rate (%) ³
Real GDP	11.2	8.1	4.5	3.4	6.1	7.2	6.3	4.2	5.0	5.4	1.7	-0.7	7.5	0.8	7.2	2.7	1.0	3.1	3.4	4.2	4.2	2.1	-6.1	1.5	Real GDP
Population	1.7	1.4	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	Population
Price																									Price
Producer prices	3.5	8.2	3.9	2.5	1.7	4.0	6.7	9.1	7.1	3.2	12.4	-3.8	9.4	5.4	1.0	0.3	0.1	-4.1	-1.2	0.7	0.4	-1.0	N.A.	N.A.	Producer prices
Consumer prices	5.9	5.8	1.6	1.6	0.7	1.8	2.8	4.5	4.6	2.2	5.5	-0.8	3.2	3.8	3.0	2.2	1.9	-0.9	0.2	0.7	1.1	0.7	-0.8	1.2	Consumer prices

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"
: THB means Baht, 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)



APEC region



Primary energy supply table in 2021

	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	17 855	598	22 572	543	116 729	5.3	20 951	2 236	2 195	3 935	6 442	593	597	983	1 299	64 037	25	422	2 641	92 710	2 465	359 832	Production
Import	1 966	385	3 069	1 180	36 393	961	2 146	15 449	12 870	2 235	3 906	315	103	438	1 477	924	6 256	4 746	3 316	21 262	1 697	124 074	Import
Export	- 14 395	- 787	- 13 488	- 39	- 3 363	-2.6	- 11 810	- 615	- 2 464	- 2 382	- 2 745	- 69	- 505	- 309	- 232	- 28 934	- 3 173	- 565	- 479	- 25 018	- 302	- 111 679	Export
International marine bunkers	- 17		-9.1	-3.0	- 287	- 269		- 204	- 441	- 27	- 18	-4.5		- 11	-3.0	- 253	- 1 792	- 59		- 729		- 4 127	International marine bunkers
International aviation bunkers	- 53	-0.8	- 91	- 19	- 94	- 129		- 168	- 111		- 125	- 13		- 13	- 22	- 239	- 89	- 73	- 29	- 843		- 2 112	International aviation bunkers
Stock change	98	0.3	104	-5.3	- 1 607	- 32	- 1 345	33	167	184	11	8.2		42	5.0	- 649	31	- 25	- 195	2 173	43	- 958	Stock change
Total	5 453	195	12 156	1 656	147 771	534	9 943	16 731	12 216	3 944	7 470	829	196	1 130	2 523	34 886	1 259	4 446	5 255	89 555	3 904	362 051	Total
Coal, peat, and coal & peat products																							Coal, peat, and coal & peat products
Production	11 468		1 051	0.7	84 784		15 115	15	17	82	129	67		3.9	310	10 758			149	11 743	991	136 685	Production
Import	12	29	198	273	5 802	172	356	4 621	3 097	852	191	37		11	690	594	19	1 586	631	119	853	20 145	Import
Export	- 9 866		- 799	-1.7	- 249		- 10 714	- 66			-0.1	- 35		- 24	- 205	- 5 603		-1.3	-4.3	- 2 152	- 42	- 29 763	Export
Stock change	70		- 25	-7.7	- 844	- 20	- 1 482	-1.7	25	24	-0.9	-5.3		38	-3.4	- 386		- 29	- 207	925	62	- 1 867	Stock change
Total	1 684	29	425	265	89 493	153	3 275	4 569	3 140	958	319	63		28	792	5 363	19	1 556	569	10 635	1 864	125 199	Total
Crude oil, NGL & petroleum products																							Crude oil, NGL & petroleum products
Production	785	219	11 712	16	8 327		1 491	16	48	1 063	4 139	43	50	222	3.6	22 262		0.1	361	30 383	387	81 527	Production
Import	1 766	356	1 920	728	24 328	552	1 790	7 208	7 481	1 046	2 014	275	103	410	782	43	5 788	2 181	1 937	18 043	839	79 590	Import
Export	- 713	- 517	- 9 581	- 37	- 2 836	-2.5	- 325	- 549	- 2 464	- 1 181	- 2 735	- 34	- 75	- 142	- 27	- 14 906	- 3 173	- 563	- 467	- 16 005	- 253	- 56 586	Export
International marine bunkers	- 17		-9.1	-3.0	- 287	- 269		- 204	- 441	- 27	- 18	-4.5		- 11	-3.0	- 253	- 1 792	- 59		- 724		- 4 122	International marine bunkers
International aviation bunkers	- 53	-0.8	- 91	- 19	- 94	- 129		- 168	- 111		- 125	- 13		- 13	- 22	- 239	- 89	- 73	- 29	- 843		- 2 112	International aviation bunkers
Stock change	8.8	-0.5	27	0.6	- 763	- 12	129	3.8	158	157	-1.4	17		1.8	6.1	- 160	38	14	13	1 114	- 19	733	Stock change
Total	1 777	56	3 977	685	28 675	139	3 085	6 308	4 670	1 058	3 273	284	79	467	739	6 746	774	1 499	1 815	31 969	954	99 030	Total
Gas																							Gas
Production	5 140	378	6 743	42	7 735		2 483	80	2.1	2 617	1 327	143	465	460	118	27 310		3.7	1 195	34 005	281	90 528	Production
Import	187		856	178	6 242	192		3 520	2 292	337	1 695					281	445	979	626	2 818		20 646	Import
Export	- 3 817	- 270	- 2 813		- 206		- 765			- 1 188	-0.3		- 430	- 143		- 8 342				- 6 677		- 24 650	Export
Stock change	19	0.9	100	0.9				31	- 16		13	-3.7		0.5		- 102	-6.7	- 10	-2.0	129		154	Stock change
Total	1 530	109	4 885	221	13 771	192	1 718	3 631	2 278	1 767	3 034	139	35	318	118	19 146	438	973	1 820	30 275	281	86 678	Total
Nuclear power																							Nuclear power
Production			1 010		4 446			772	1 724		130					2 451		303		8 853		19 690	Production
Hydro power																							Hydro power
Production	53		1 378	70	4 689		89	284	11	112	118	87	3.6	115	33	772		12	17	913	283	9 040	Production
Geothermal, solar, etc																							Geothermal, solar, etc
Production	409		678	415	6 749	5.3	1 773	1 068	393	60	599	253	78	182	834	484	25	102	919	6 813	524	22 362	Production

Primary energy supply table in 2020

	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	18 958	640	21 728	525	109 522	4.6	19 277	1 817	2 206	3 766	6 404	612	611	997	1 280	59 868	25	454	2 798	90 304	2 212	344 008	Production
Import	2 088	358	3 206	1 082	36 061	1 014	1 672	14 940	12 392	2 107	3 707	312	104	320	1 380	986	6 345	4 566	3 268	19 851	2 244	118 004	Import
Export	- 15 169	- 829	- 12 744	- 29	- 3 304	-6.4	- 10 993	- 497	- 2 585	- 2 050	- 2 917	- 72	- 525	- 342	- 220	- 28 905	- 3 202	- 519	- 456	- 23 231	- 321	- 108 918	Export
International marine bunkers	- 29		- 12	-1.3	- 245	- 302		- 205	- 417	- 23	-6.6	-7.4		- 10	-4.2	- 285	- 1 779	- 48		- 654		- 4 028	International marine bunkers
International aviation bunkers	- 162	-3.4	- 91	- 17	- 99	- 142		- 120	- 126		- 79	- 22		- 11	- 24	- 201	- 87	- 74	- 75	- 663		- 1 998	International aviation bunkers
Stock change	- 70	- 12	- 193	19	- 3 537	- 33	- 866	189	89	90	58	-6.1	3.9	7.3	19	403	- 18	- 62	- 127	- 402	- 131	- 4 580	Stock change
Total	5 615	153	11 894	1 578	138 399	535	9 091	16 124	11 560	3 890	7 167	817	194	961	2 430	31 865	1 284	4 317	5 407	85 203	4 004	342 488	Total
Coal & coal products																							Coal & coal products
Production	12 335		1 024	8.0	79 809		13 878	18	20	79	184	65		3.3	286	9 726			139	10 788	890	129 250	Production
Import	19	27	195	266	5 499	145	216	4 348	3 052	931	178	22		8.9	652	610	18	1 487	629	111	1 285	19 699	Import
Export	- 10 505		- 795	-3.7	- 180		- 9 972	- 94			-0.1	- 32		-0.6	- 166	- 5 617		-3.3	-1.6	- 1 720	- 21	- 29 112	Export
Stock change	- 67		-6.6	12	- 1 230	-7.1	- 875	-0.2	37	30	7.2	4.5		10	- 46	77		- 35	- 118	102	- 76	- 2 182	Stock change
Total	1 783	27	417	282	83 898	138	3 247	4 271	3 109	1 039	369	59		21	726	4 796	18	1 449	648	9 280	2 077	117 654	Total
Crude oil, NGL & petroleum products																							Crude oil, NGL & petroleum products
Production	875	225	11 093	17	8 155		1 534	18	41	1 205	4 099	49	58	232	3.9	21 719		0.1	427	30 208	377	80 335	Production
Import	1 907	330	2 092	657	25 335	632	1 451	6 746	7 328	822	1 864	288	104	296	722	62	5 896	2 186	1 936	16 968	948	78 570	Import
Export	- 759	- 523	- 9 126	- 25	- 2 854	-6.4	- 304	- 403	- 2 585	- 888	- 2 895	- 39	- 87	- 121	- 54	- 15 027	- 3 202	- 516	- 445	- 16 124	- 290	- 56 274	Export
International marine bunkers	- 29		- 12	-1.3	- 245	- 302		- 205	- 417	- 23	-6.6	-7.4		- 10	-4.2	- 285	- 1 779	- 48		- 639		- 4 012	International marine bunkers
International aviation bunkers	- 162	-3.4	- 91	- 17	- 99	- 142		- 120	- 126		- 79	- 22		- 11	- 24	- 201	- 87	- 74	- 75	- 663		- 1 998	International aviation bunkers
Stock change	26	- 14	- 69	5.7	- 2 307	- 26	- 21	173	1.2	53	44	- 10	3.9	-1.0	63	2.7	- 20	- 26	-6.6	- 348	- 55	- 2 532	Stock change
Total	1 857	15	3 886	636	27 985	155	2 661	6 209	4 241	1 169	3 027	258	79	385	707	6 270	808	1 523	1 837	29 401	980	94 090	Total
Gas																							Gas
Production	5 329	415	6 488	41	7 172		2 132	81	6.9	2 322	1 309	163	474	487	138	24 843		3.5	1 220	32 984	327	85 937	Production
Import	162		836	159	5 210	192		3 761	2 012	354	1 629					309	427	892	595	2 471		19 010	Import
Export	- 3 905	- 306	- 2 508		- 192		- 716			- 1 144	-0.3		- 438	- 220		- 8 216				- 5 203		- 22 848	Export
Stock change	- 29	2.2	- 115	1.6				16	53		6.9	-0.5		-1.3		319	1.8	-1.9	-3.7	- 147		101	Stock change
Total	1 557	111	4 701	202	12 190	192	1 417	3 858	2 072	1 532	2 945	162	35	266	138	17 255	429	894	1 811	30 105	327	82 200	Total
Nuclear power																							Nuclear power
Production			1 071		3 996			423	1 747		123					2 368		343		8 980		19 050	Production
Hydro power																							Hydro power
Production	53		1 391	79	4 768		82	284	14	98	97	87	3.5	110	26	765		11	17	1 034	262	9 182	Production
Geothermal, solar, etc																							Geothermal, solar, etc
Production	365		661	380	5 623	4.6	1 650	995	377	62	592	248	76	165	826	447	25	97	995	6 311	356	20 253	Production

Final energy consumption table in 2021

	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	3 084	40	7 038	1 114	78 234	275	5 676	9 918	5 382	1 944	3 958	513	143	891	1 404	18 991	508	2 063	3 094	58 025	2 614	204 910	Total
Coal, peat, and coal & peat products	113		85	7.0	18 008		515	813	276	58	49	22		23	82	1 339	7.7	204	267	568	692	23 128	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 541	22	2 635	629	16 940	84	2 754	4 284	1 870	927	2 161	257	56	451	682	3 997	235	619	1 432	25 031	771	67 375	Crude oil, NGL & petroleum products
Gas	474	0.8	2 000	68	9 493	25	509	1 172	913	365	376	60		98		5 937	73	192	225	14 799	35	36 814	Gas
Electricity	779	17	1 889	275	26 114	164	998	3 355	1 929	559	1 062	140	14	179	319	2 907	193	952	724	13 818	796	57 184	Electricity
Others	177		429	135	7 679	2.5	900	294	394	35	310	34	73	140	322	4 811		97	446	3 811	320	20 409	Others
Industry	956	10	1 917	415	42 753	12	1 946	3 346	1 983	804	1 279	154	38	244	286	6 309	299	1 086	1 129	11 634	1 482	78 084	Industry
Coal, peat, and coal & peat products	113		84	7.0	15 286		515	804	267	58	49	20		23	82	1 231	7.7	204	267	554	684	20 255	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	188	5.3	236	153	1 701	3.2	183	700	184	105	226	19	24	46	65	426	146	73	170	843	117	5 614	Crude oil, NGL & petroleum products
Gas	266		676	39	5 317	1.2	503	459	310	363	339	46		56		1 612	65	144	183	5 678	35	16 092	Gas
Electricity	283	5.1	666	162	15 934	7.1	361	1 230	992	279	617	47	10	104	99	1 307	80	572	289	3 019	419	26 484	Electricity
Others	106		256	55	4 515	0.1	384	153	229		48	21	3.9	15	39	1 733		94	220	1 539	227	9 639	Others
Transport	1 250	16	2 360	390	13 754	80	2 447	2 649	1 493	758	1 510	205	25	385	462	4 090	95	459	1 200	25 280	456	59 366	Transport
Coal, peat, and coal & peat products					27																	27	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 205	16	2 085	386	11 316	77	2 093	2 567	1 409	720	1 502	204	25	346	442	2 742	85	454	1 067	22 598	455	51 794	Crude oil, NGL & petroleum products
Gas	18		157	0.3	1 336		0.4	0.9	43	1.5	1.6			24		1 053	0.1		42	1 166	0.3	3 844	Gas
Electricity	23		29	4.5	717	3.0	1.1	62	13	1.3	5.7	0.4		0.3	0.4	295	10	5.6	0.8	46		1 220	Electricity
Others	3.7		90		358	0.2	353	19	27	35		0.1		15	20				90	1 470	0.5	2 482	Others
Agriculture	112		287	15	2 052	0.1		127	75	18	129	29	4.6	8.5	20	390		11	94	805	136	4 313	Agriculture
Coal, peat, and coal & peat products			0.5		409							1.4				0.9						412	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	103		208	5.1	848			116	18	16	80	16	4.3	3.3	5.0	116		2.7	93	472	99	2 206	Crude oil, NGL & petroleum products
Gas	1.1		40	0.7	6.2				0.1			1.2				72		0.2		62		184	Gas
Electricity	7.5		38	8.4	575	0.1		10	54	2.5	49	9.2	0.3	5.0	15	76		8.2	1.4	206	19	1 085	Electricity
Others				0.5	214			0.4	1.6			0.4		0.2	0.1	125				65	19	426	Others
Residential & commercial	765	14	2 470	280	14 285	183	1 214	3 705	1 748	338	965	121	76	246	629	7 904	113	489	670	19 872	529	56 618	Residential & commercial
Coal, peat, and coal & peat products	0.2				1 785			8.5	8.7			0.7				107				14	8.4	1 933	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	43	0.8	106	76	1 439	3.7	422	830	186	61	353	14	2.6	50	164	688	4.3	75	102	1 117	99	5 838	Crude oil, NGL & petroleum products
Gas	189	0.8	1 127	28	2 606	23	5.7	712	559	0.5	36	13		17		2 930	7.2	48		7 892		16 195	Gas
Electricity	465	12	1 156	100	6 113	154	636	2 049	858	277	315	81	4.0	69	202	1 228	101	363	433	10 112	348	25 077	Electricity
Others	67		81	77	2 342	2.2	150	105	136		261	12	69	110	263	2 951		3.0	136	736	74	7 576	Others

Final energy consumption table in 2020

	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	3 074	42	6 848	1 087	74 729	267	5 449	9 792	5 238	1 898	4 089	506	141	740	1 303	17 666	485	2 009	3 295	55 070	2 638	196 366	Total
Coal, peat, and coal & peat products	112		84	6.1	19 078		666	757	287	56	103	22		16	63	1 284	7.6	194	339	540	831	24 446	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 544	24	2 523	589	16 084	81	2 414	4 345	1 828	950	2 190	244	55	356	623	3 702	226	642	1 493	22 773	769	63 457	Crude oil, NGL & petroleum products
Gas	467	0.8	1 965	64	9 231	25	554	1 118	884	311	428	67		76	1.6	5 531	69	173	209	14 524	33	35 731	Gas
Electricity	780	17	1 865	268	23 643	159	952	3 289	1 846	548	1 080	140	14	164	300	2 691	183	907	708	13 600	766	53 919	Electricity
Others	172		410	160	6 692	2.4	863	284	393	33	287	33	71	128	316	4 458		92	546	3 633	239	18 812	Others
Industry	930	10	1 822	431	41 283	12	2 022	3 185	1 910	741	1 406	159	38	207	259	5 985	281	1 011	1 226	11 075	1 437	75 428	Industry
Coal, peat, and coal & peat products	111		83	6.1	15 893		666	748	277	56	103	20		16	63	1 185	7.6	194	339	527	815	21 109	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	181	5.1	223	151	1 879	3.2	117	705	172	110	224	18	24	40	64	404	136	70	175	761	64	5 525	Crude oil, NGL & petroleum products
Gas	258		633	36	5 283	1.2	548	429	290	308	395	52		41	1.6	1 507	62	125	157	5 697	32	15 854	Gas
Electricity	280	5.0	638	161	14 650	7.3	318	1 163	945	267	631	48	10	92	92	1 199	76	534	271	2 557	394	24 337	Electricity
Others	101		244	76	3 578	0.1	374	140	225		54	21	3.8	18	38	1 689		88	284	1 534	133	8 602	Others
Transport	1 292	17	2 233	357	12 875	77	2 172	2 624	1 433	781	1 532	193	25	296	413	3 786	96	484	1 276	22 859	521	55 342	Transport
Coal, peat, and coal & peat products					54																	54	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 245	17	1 984	352	10 446	74	1 851	2 541	1 349	744	1 527	193	25	263	395	2 512	86	478	1 123	20 495	517	48 218	Crude oil, NGL & petroleum products
Gas	19		139	0.3	1 292		0.4	1.1	45	2.7	1.6			21		995	0.1		52	1 040	0.9	3 610	Gas
Electricity	23		27	4.6	630	2.9	1.1	62	12	1.4	3.4	0.4		0.3	0.3	279	10	5.7	0.8	37		1 101	Electricity
Others	4.4		82		453	0.2	319	19	27	33		0.2		12	18				100	1 288	2.7	2 358	Others
Agriculture	83		282	16	1 986	0.1		119	70	13	134	30	4.6	7.0	11	355		11	97	844	127	4 191	Agriculture
Coal, peat, and coal & peat products			0.7		514							1.5				2.1						518	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	74		205	6.8	759			109	19	11	82	17	4.3	2.0	2.8	108		2.8	96	453	95	2 047	Crude oil, NGL & petroleum products
Gas	1.1		39	0.7	4.8							1.3				57		0.2		62		166	Gas
Electricity	7.3		38	8.6	512	0.1		10	50	2.5	53	10	0.3	4.8	8.2	70		8.1	1.5	265	17	1 065	Electricity
Others				0.4	196			0.4	1.4			0.5		0.2		117				64	14	394	Others
Residential & commercial	768	13	2 508	269	13 697	178	1 194	3 769	1 732	340	953	119	74	227	613	7 347	107	485	696	19 456	541	55 087	Residential & commercial
Coal, peat, and coal & peat products	0.8				2 036			8.6	10			0.8				97				14	16	2 183	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	42	0.8	111	69	1 502	3.5	396	916	206	63	359	13	2.5	49	155	652	4.4	77	100	1 065	93	5 879	Crude oil, NGL & petroleum products
Gas	189	0.8	1 154	26	2 444	24	5.7	689	548	0.6	32	14		14		2 805	6.4	49	0.1	7 725		15 726	Gas
Electricity	470	12	1 162	93	5 505	148	633	2 050	829	276	329	79	3.9	66	198	1 142	96	356	435	9 905	342	24 133	Electricity
Others	66		81	80	2 210	2.1	159	105	140		233	12	67	98	260	2 651		4.0	161	748	90	7 166	Others

Demand and supply table of coal, peat, and coal & peat products in 2021

	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	12 335		1 024	8.0	79 809		13 878	18	20	79	184	65		3.3	286	9 726			139	10 788	890	129 250	Production
Import	19	27	195	266	5 499	145	216	4 348	3 052	931	178	22		8.9	652	610	18	1 487	629	111	1 285	19 699	Import
Export	- 10 505		- 795	-3.7	- 180		- 9 972	- 94			-0.1	- 32		-0.6	- 166	- 5 617		-3.3	-1.6	- 1 720	- 21	- 29 112	Export
Stock change	- 67		-6.6	12	- 1 230	-7.1	- 875	-0.2	37	30	7.2	4.5		10	- 46	77		- 35	- 118	102	- 76	- 2 182	Stock change
Primary energy supply	1 783	27	417	282	83 898	138	3 247	4 271	3 109	1 039	369	59		21	726	4 796	18	1 449	648	9 280	2 077	117 654	Primary energy supply
Main activity producers	- 1 467		- 315	- 253	- 55 716	- 153	- 2 761	- 2 493	- 1 766	- 901	- 185	- 24		-0.3	- 701	- 1 942	- 12	- 791	- 302	- 9 592	- 1 152	- 80 526	Main activity producers
Autoproducers		-6.7	-1.4					- 263	- 222		-1.5	-8.0		-4.5		- 791		- 354		- 51		- 1 703	Autoproducers
Coal transformation	- 52		- 37	-6.5	- 7 371			- 725	- 505		- 25	-5.6				- 881		- 123		- 272		- 10 003	Coal transformation
Refining																							Refining
Gas processing					- 971															- 74		- 1 045	Gas processing
Other transformation																							Other transformation
Final energy consumption	113		85	7.0	18 008		515	813	276	58	49	22		23	82	1 339	7.7	204	267	568	692	23 128	Final energy consumption

Demand and supply table of crude oil, NGL and petroleum products in 2021

	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	875	225	11 093	17	8 155		1 534	18	41	1 205	4 099	49	58	232	3.9	21 719		0.1	427	30 208	377	80 335	Production
Import	1 907	330	2 092	657	25 335	632	1 451	6 746	7 328	822	1 864	288	104	296	722	62	5 896	2 186	1 936	16 968	948	78 570	Import
Export	- 759	- 523	- 9 126	- 25	- 2 854	-6.4	- 304	- 403	- 2 585	- 888	- 2 895	- 39	- 87	- 121	- 54	- 15 027	- 3 202	- 516	- 445	- 16 124	- 290	- 56 274	Export
Stock change	26	- 14	- 69	5.7	- 2 307	- 26	- 21	173	1.2	53	44	- 10	3.9	-1.0	63	2.7	- 20	- 26	-6.6	- 348	- 55	- 2 532	Stock change
Primary energy supply	1 857	15	3 886	636	27 985	155	2 661	6 209	4 241	1 169	3 027	258	79	385	707	6 270	808	1 523	1 837	29 401	980	94 090	Primary energy supply
Main activity producers	-8.4	-0.4	- 38	- 21	- 383	-3.7	- 106	- 279	- 25	- 10	- 388	-0.3	-2.2	-4.2	- 17	- 27	-2.7	- 40	-6.3	- 288	-2.2	- 1 654	Main activity producers
Autoproducers	- 36		- 16	-6.0				- 143	- 65	-1.5	- 55		- 25	-0.5		- 229	-5.4	- 13		- 75		- 671	Autoproducers
Coal transformation								- 15														- 15	Coal transformation
Refining	- 18	- 30	- 215	- 10	5 110		- 56	132	- 213	- 103	- 80	-4.1	3.0	- 14	-8.8	- 463	- 34	137	- 222	- 1 168	- 79	2 664	Refining
Gas processing		0.8			- 24	- 12	49	- 83	- 11	24	- 25		1.9									- 81	Gas processing
Other transformation		11	144				-1.4	-8.1	47		0.5								269	201		663	Other transformation
Final energy consumption	1 541	22	2 635	629	16 940	84	2 754	4 284	1 870	927	2 161	257	56	451	682	3 997	235	619	1 432	25 031	771	67 375	Final energy consumption

Demand and supply table of gas in 2021

	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	5 329	415	6 488	41	7 172		2 132	81	6.9	2 322	1 309	163	474	487	138	24 843		3.5	1 220	32 984	327	85 937	Production
Import	162		836	159	5 210	192		3 761	2 012	354	1 629					309	427	892	595	2 471		19 010	Import
Export	- 3 905	- 306	- 2 508		- 192		- 716			- 1 144	-0.3		- 438	- 220		- 8 216				- 5 203		- 22 848	Export
Stock change	- 29	2.2	- 115	1.6				16	53		6.9	-0.5		-1.3		319	1.8	-1.9	-3.7	- 147		101	Stock change
Primary energy supply	1 557	111	4 701	202	12 190	192	1 417	3 858	2 072	1 532	2 945	162	35	266	138	17 255	429	894	1 811	30 105	327	82 200	Primary energy supply
Main activity producers	- 279	- 51	- 472	- 116	- 2 536	- 178	- 432	- 2 343	- 1 271	- 416	- 1 353	- 37	-4.7	- 169	- 113	- 6 010	- 327	- 761	- 1 045	- 11 073	- 188	- 29 176	Main activity producers
Autoproducers	- 192	-5.5	- 267	-3.9				- 143	- 53	- 50	- 434	-1.5	-5.5	-8.8		- 2 957	- 46	-3.4		- 641		- 4 811	Autoproducers
Coal transformation																							Coal transformation
Refining																							Refining
Gas processing		12			1 061	12	- 27	79	10	- 423	8.6		- 13					10		48		778	Gas processing
Other transformation		- 20	- 142													- 500			- 226	- 161		- 1 049	Other transformation
Final energy consumption	474	0.8	2 000	68	9 493	25	509	1 172	913	365	376	60		98		5 937	73	192	225	14 799	35	36 814	Final energy consumption

Demand and supply table of coal, peat, and coal & peat products in 2020

	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	11 468		1 051	0.7	84 784		15 115	15	17	82	129	67		3.9	310	10 758			149	11 743	991	136 685	Production
Import	12	29	198	273	5 802	172	356	4 621	3 097	852	191	37		11	690	594	19	1 586	631	119	853	20 145	Import
Export	- 9 866		- 799	-1.7	- 249		- 10 714	- 66			-0.1	- 35		- 24	- 205	- 5 603		-1.3	-4.3	- 2 152	- 42	- 29 763	Export
Stock change	70		- 25	-7.7	- 844	- 20	- 1 482	-1.7	25	24	-0.9	-5.3		38	-3.4	- 386		- 29	- 207	925	62	- 1 867	Stock change
Primary energy supply	1 684	29	425	265	89 493	153	3 275	4 569	3 140	958	319	63		28	792	5 363	19	1 556	569	10 635	1 864	125 199	Primary energy supply
Main activity producers	- 1 515		- 352	- 295	- 50 207	- 138	- 2 581	- 2 449	- 1 789	- 982	- 184	- 16		-0.2	- 658	- 1 851	- 10	- 776	- 311	- 8 279	- 1 230	- 73 623	Main activity producers
Autoproducers		-6.5	-1.6					- 257	- 225		-2.6	-7.2		-5.1		- 753		- 340		- 53		- 1 653	Autoproducers
Coal transformation	- 52		- 32	-4.8	- 7 333		-0.2	- 632	- 479		- 28	-5.3				- 854		- 108		- 234		- 9 763	Coal transformation
Refining																							Refining
Gas processing					- 821															- 74		- 896	Gas processing
Other transformation																							Other transformation
Final energy consumption	113		85	7.0	18 008		515	813	276	58	49	22		23	82	1 339	7.7	204	267	568	692	23 128	Final energy consumption

Demand and supply table of crude oil, NGL and petroleum products in 2020

	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	219	11 712	16	8 327		1 491	16	48	1 063	4 139	43	50	222	3.6	22 262		0.1	361	30 383	387	81 527	Production
Import	1 766	356	1 920	728	24 328	552	1 790	7 208	7 481	1 046	2 014	275	103	410	782	43	5 788	2 181	1 937	18 043	839	79 590	Import
Export	- 713	- 517	- 9 581	- 37	- 2 836	-2.5	- 325	- 549	- 2 464	- 1 181	- 2 735	- 34	- 75	- 142	- 27	- 14 906	- 3 173	- 563	- 467	- 16 005	- 253	- 56 586	Export
Stock change	8.8	-0.5	27	0.6	- 763	- 12	129	3.8	158	157	-1.4	17		1.8	6.1	- 160	38	14	13	1 114	- 19	733	Stock change
Primary energy supply	1 777	56	3 977	685	28 675	139	3 085	6 308	4 670	1 058	3 273	284	79	467	739	6 746	774	1 499	1 815	31 969	954	99 030	Primary energy supply
Main activity producers	-8.3	-0.5	- 42	- 11	- 378	-3.6	- 83	- 227	- 24	-6.9	- 382	-1.3	-2.5	-3.9	- 21	- 27	-0.3	- 32	-2.2	- 292	-7.7	- 1 556	Main activity producers
Autoproducers	- 35		- 18	-5.2				- 143	- 57	-2.4	- 54		- 24	-1.5		- 210	-3.6	- 13		- 66		- 631	Autoproducers
Coal transformation					-1.4			- 14														- 15	Coal transformation
Refining	-9.3	-5.3	- 174	4.3	4 785		36	119	- 162	- 96	- 60	-0.7	-0.1	15	-8.3	- 358	- 37	96	- 173	- 903	- 108	2 962	Refining
Gas processing		0.8			- 12	- 11	50	- 73	-4.9	21	- 29		1.9									- 57	Gas processing
Other transformation		14	148				- 96	-7.2	35		0.5								320	196		611	Other transformation
Final energy consumption	1 541	22	2 635	629	16 940	84	2 754	4 284	1 870	927	2 161	257	56	451	682	3 997	235	619	1 432	25 031	771	67 375	Final energy consumption

Demand and supply table of gas in 2020

	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	5 140	378	6 743	42	7 735		2 483	80	2.1	2 617	1 327	143	465	460	118	27 310		3.7	1 195	34 005	281	90 528	Production
Import	187		856	178	6 242	192		3 520	2 292	337	1 695					281	445	979	626	2 818		20 646	Import
Export	- 3 817	- 270	- 2 813		- 206		- 765			- 1 188	-0.3		- 430	- 143		- 8 342				- 6 677		- 24 650	Export
Stock change	19	0.9	100	0.9				31	- 16		13	-3.7		0.5		- 102	-6.7	- 10	-2.0	129		154	Stock change
Primary energy supply	1 530	109	4 885	221	13 771	192	1 718	3 631	2 278	1 767	3 034	139	35	318	118	19 146	438	973	1 820	30 275	281	86 678	Primary energy supply
Main activity producers	- 327	- 49	- 429	- 101	- 2 172	- 178	- 408	- 2 594	- 1 093	- 412	- 977	- 47	-4.6	- 140	- 129	- 5 454	- 311	- 706	- 1 046	- 11 426	- 247	- 28 252	Main activity producers
Autoproducers	- 202	-6.4	- 247	-4.4				- 138	- 59	- 59	- 318	-1.6	-5.5	- 10		- 2 684	- 49	-3.2		- 678		- 4 466	Autoproducers
Coal transformation																							Coal transformation
Refining																							Refining
Gas processing		11			914	11	- 84	70	4.2	- 328	10		- 13					8.2		49		653	Gas processing
Other transformation		- 24	- 146													- 462			- 288	- 169		- 1 089	Other transformation
Final energy consumption	474	0.8	2 000	68	9 493	25	509	1 172	913	365	376	60		98		5 937	73	192	225	14 799	35	36 814	Final energy consumption

Note: Gas = Natural gas/ LNG

Power generation table in 2021

	GWh																						
	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	264 793	5 735	651 785	83 994	7 779 060	35 172	290 403	1 008 544	575 324	174 094	314 549	44 543	4 299	52 803	101 756	1 087 866	53 080	280 127	185 602	4 238 970	242 831	17 475 329	Total
Thermal	194 756	5 695	116 008	45 029	5 707 028	36 798	253 145	720 779	406 705	144 124	291 736	8 234	3 223	22 394	82 344	709 343	53 510	242 536	155 650	2 661 776	145 319	12 006 133	Thermal
Coal	140 311	1 242	34 448	26 065	5 449 548	13 497	190 232	321 904	208 339	84 730	17 167	3 232		130	62 052	186 935	693	128 898	38 938	991 561	119 000	8 018 923	Coal
Oil	4 662	36	4 281	3 061	11 162	200	6 648	39 454	8 166	975	51 817	27	2 392	631	1 616	8 528	440	5 332	4 797	36 125	7.0	190 359	Oil
Gas	49 783	4 417	77 279	15 902	246 318	23 100	56 265	359 420	190 200	58 419	222 752	4 975	831	21 633	18 675	513 880	52 378	108 305	111 915	1 634 090	26 312	3 796 850	Gas
Hydro	14 761		382 756	19 348	1 338 999	1.5	24 697	78 792	3 055	31 105	32 869	24 232	1 004	31 926	9 185	214 476		6 653	4 682	253 479	78 553	2 550 573	Hydro
Nuclear			92 629		407 523			70 805	158 015		11 923					223 372		27 788		811 551		1 803 607	Nuclear
Geothermal				324			15 899	3 008			4 363	8 446	96		10 681	430		9.1	1.5	19 077		62 335	Geothermal
Others	55 276	40.0	60 392	19 293	325 510	-1627	-3338	135 160	7 548	-1135	-26342	3 630	-24	-1516	-455	-59755	-431	3 141	25 269	493 087	18 959	1 052 682	Others
Main activity producers	221 316	4 048	589 183	81 391	8 534 248	36 839	309 352	866 503	577 031	172 340	319 616	42 921	1 463	55 823	106 115	1 076 904	51 191	245 572	188 960	4 152 893	255 328	17 889 036	Main activity producers
Thermal	171 370	4 047	92 845	43 636	5 707 028	36 798	253 145	655 776	379 179	138 513	247 593	7 477	755	21 533	82 344	634 011	48 912	207 173	155 650	2 533 910	145 319	11 567 012	Thermal
Coal	140 311		34 261	26 065	5 449 548	13 497	190 232	292 103	192 070	84 730	17 036	2 543		25	62 052	169 692	693	95 187	38 938	982 075	119 000	7 910 059	Coal
Oil	848	36	2 817	2 404	11 162	200	6 648	25 086	2 509	807	46 644	27	324	457	1 616	1 594	196	4 102	4 797	29 393	7.0	141 674	Oil
Gas	30 211	4 011	55 767	15 167	246 318	23 100	56 265	338 588	184 599	52 976	183 913	4 907	431	21 051	18 675	462 725	48 023	107 883	111 915	1 522 441	26 312	3 515 279	Gas
Hydro	14 761		361 841	19 180	1 338 999		24 697	75 955	3 055	31 101	32 086	24 228	704	31 294	9 185	213 179		6 652	4 682	252 261	78 553	2 522 412	Hydro
Nuclear			92 629		407 523			70 805	158 015		11 923					223 372		27 788		811 551		1 803 607	Nuclear
Geothermal				324			15 899	2 216			4 260	8 393			10 681	430		9.1	1.5	18 457		60 671	Geothermal
Others	35 186	0.9	41 868	18 250	1 080 698	42	15 611	61 751	36 782	2 726	23 754	2 823	4.5	2 997	3 904	5 536	2 279	3 950	28 627	536 714	31 456	1 934 958	Others
Autoproducers	43 799	1 652	53 680	6 628		222		173 374	31 045	6 238	60 080	1 689	2 902	1 694		80 596	4 599	45 364		201 166		714 728	Autoproducers
Thermal	23 386	1 648	23 163	1 392				65 002	27 527	5 611	44 143	757	2 468	861		75 333	4 599	35 363		127 867		439 120	Thermal
Coal		1 242	187					29 801	16 269		131	689		105		17 243		33 711		9 486		108 864	Coal
Oil	3 814		1 464	657				14 368	5 657	168	5 173	0.1	2 068	174		6 934	244	1 230		6 732		48 685	Oil
Gas	19 572	406	21 512	735				20 833	5 601	5 443	38 839	68	400	582		51 155	4 354	422		111 649		281 571	Gas
Hydro			20 915	168		1.5		2 838		4.0	783	3.8	300	632		1 297		12		1 218		28 161	Hydro
Nuclear																							Nuclear
Geothermal								792			103	54	96							620		1 664	Geothermal
Others	20 413	3.6	9 602	5 068		221		104 742	3 518	623	15 051	875	37	201		3 967		10 000		71 461		245 783	Others

Power generation table in 2020

	GWh																						
	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	264 793	5 735	651 785	83 994	7 779 060	35 172	290 403	1 008 544	575 324	174 094	314 549	44 543	4 299	52 803	101 756	1 087 866	53 080	280 127	185 602	4 238 970	242 831	17 475 329	Total
Thermal	205 248	5 734	115 628	43 094	5 245 292	35 004	238 910	737 035	376 825	143 510	243 251	8 672	3 186	19 168	80 147	651 885	51 283	230 221	150 585	2 573 324	159 042	11 317 044	Thermal
Coal	145 522	1 226	38 626	26 071	5 012 954	12 129	180 869	311 077	206 456	88 988	17 366	2 310		133	58 176	175 644	528	125 914	33 708	855 770	123 177	7 416 644	Coal
Oil	4 509	40	4 682	1 731	11 245	150	6 764	31 625	7 294	846	46 074	14	2 368	930	2 474	7 489	211	4 420	3 981	37 411	1 063	175 320	Oil
Gas	55 216	4 469	72 320	15 292	221 093	22 725	51 276	394 334	163 074	53 676	179 811	6 348	818	18 105	19 497	468 752	50 544	99 887	112 896	1 680 143	34 802	3 725 080	Gas
Hydro	14 764		386 506	21 873	1 355 209	1.5	22 874	78 807	3 877	27 299	26 817	24 266	977	30 510	7 192	212 586		6 178	4 681	287 139	72 892	2 584 450	Hydro
Nuclear			98 195		366 255			38 752	160 184		11 262					215 745		31 440		823 150		1 744 982	Nuclear
Geothermal				216			15 563	2 992			5 320	8 304	96		10 757	421		1.9	1.1	18 831		62 502	Geothermal
Others	44 781	1.0	51 456	18 811	812 304	166	13 056	150 958	34 438	3 285	27 899	3 302	39	3 125	3 660	7 228	1 797	12 286	30 335	536 526	10 897	1 766 350	Others
Main activity producers	225 031	4 074	590 403	77 369	7 779 060	35 029	290 403	849 122	544 709	167 833	250 943	42 969	1 501	50 673	101 756	1 016 768	46 058	237 638	185 602	4 038 892	242 831	16 778 662	Main activity producers
Thermal	181 610	4 073	92 167	41 668	5 245 292	35 004	238 910	677 705	349 333	137 906	191 853	7 970	820	17 865	80 147	585 645	44 261	196 713	150 585	2 441 745	159 042	10 880 311	Thermal
Coal	145 522		38 417	26 071	5 012 954	12 129	180 869	283 798	190 258	88 988	17 147	1 686		13	58 176	161 704	528	94 046	33 708	846 112	123 177	7 315 302	Coal
Oil	835	40	3 103	1 139	11 245	150	6 764	18 443	2 245	670	39 835	14	401	431	2 474	1 610		3 180	3 981	30 044	1 063	127 681	Oil
Gas	35 252	4 033	50 647	14 458	221 093	22 725	51 276	375 464	156 829	48 247	134 871	6 271	418	17 420	19 497	422 332	43 719	99 487	112 896	1 565 589	34 802	3 437 327	Gas
Hydro	14 764		358 728	21 816	1 355 209		22 874	75 808	3 877	27 295	26 009	24 262	677	29 895	7 192	211 302		6 178	4 681	285 908	72 892	2 549 366	Hydro
Nuclear			98 195		366 255			38 752	160 184		11 262					215 745		31 440		823 150		1 744 982	Nuclear
Geothermal				216			15 563	2 263			5 224	8 245			10 757	421			1.1	18 303		60 993	Geothermal
Others	28 657	1.0	41 313	13 669	812 304	24	13 056	54 594	31 315	2 633	16 595	2 492	3.7	2 913	3 660	3 263	1 797	3 307	30 335	469 786	10 897	1 542 619	Others
Autoproducers	39 762	1 662	60 944	6 625		144		159 422	30 615	6 262	66 737	1 561	2 798	2 130		71 098	7 022	42 340		200 078		699 199	Autoproducers
Thermal	23 638	1 662	23 461	1 426				59 330	27 492	5 605	51 398	702	2 366	1 303		66 240	7 022	33 509		131 579		436 733	Thermal
Coal		1 226	209					27 279	16 198		219	624				13 941		31 869		9 658		101 342	Coal
Oil	3 674		1 579	592				13 181	5 049	176	6 239	0.3	1 966	498		5 879	197	1 240		7 367		47 638	Oil
Gas	19 964	436	21 673	834				18 870	6 245	5 429	44 940	77	400	685		46 420	6 826	400		114 554		287 753	Gas
Hydro			27 778	58		1.5		2 999			4.1	808	3.9	300	615	1 285		0.3		1 232		35 084	Hydro
Nuclear																							Nuclear
Geothermal								729			96	59	96					1.9		528		1 510	Geothermal
Others	16 123		9 705	5 141		143		96 363	3 122	652	14 435	797	35	212		3 573		8 829		66 740		225 872	Others

Fuel consumption table for power generation in 2021

	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	1 949	52	3 316	563	72 924	335	4 246	6 642	4 966	1 453	2 368	355	10	332	1 278	11 223	369	1 924	1 796	33 451	1 786	151 336	Main activity producers
Coal	1 467		315	253	53 608	153	2 761	2 368	1 685	901	185	24		0.3	701	1 937	12	791	273	9 584	1 152	78 170	Coal
Coke					149			0.5														149	Coke
Coke oven gas					403			29	18											0.3		450	Coke oven gas
Blast furnace gas					1 246			90	57											7.0		1 400	Blast furnace gas
Other coal products					310			5.4	6.6										29			351	Other coal products
Peat																5.8						5.8	Peat
Crude oil & NGL					5.2			8.3														13	Crude oil & NGL
LPG				0.1	4.6	1.2		2.9														8.8	LPG
Refinery gas					108			54														162	Refinery gas
Naphtha																							Naphtha
Diesel oil	6.5	0.4	8.1	16	14	2.5	98	13	4.8	10	30	0.3	2.2	0.9	9.1		0.2	2.8	2.5	80	0.6	302	Diesel oil
Fuel oil	1.0		16	0.1	112		7.8	141	21	0.3	358			3.3	7.8	27	2.6	37	3.9	107	1.6	848	Fuel oil
Other petroleum products	0.9		14	4.8	139			60												100		319	Other petroleum products
Natural gas	279	51	472	116	2 536	178	432	2 343	1 271	416	1 353	37	4.7	169	113	6 010	327	761	1 045	11 073	188	29 176	Natural gas
Others	194		2 491	172	14 290	0.4	947	1 526	1 904	125	441	294	2.9	158	447	3 243	28	331	442	12 499	444	39 980	Others
Autoproducers	315	12	435	197		2.0	18	917	355	56	574	28	35	21		4 008	52	394		1 070		8 489	Autoproducers
Coal		6.7						167	126			0.1		4.5		654		309		35		1 304	Coal
Coke								0.1														0.2	Coke
Coke oven gas			1.4					15	13		0.1	2.3				56		13		3.0		104	Coke oven gas
Blast furnace gas								77	68		1.4	5.6				76		26		12		267	Blast furnace gas
Other coal products								3.9	15									5.8				24	Other coal products
Peat																3.7						3.7	Peat
Crude oil & NGL																24						24	Crude oil & NGL
LPG								6.7								1.0		0.1				7.8	LPG
Refinery gas			6.5					48										8.4		67		130	Refinery gas
Naphtha									36													36	Naphtha
Diesel oil	35		5.1	3.6				8.9		1.5	8.4		4.2	0.5		63		0.1		2.1		132	Diesel oil
Fuel oil	0.6		2.1	2.4				38			15		21			105	5.4	3.9		0.5		193	Fuel oil
Other petroleum products	0.9		2.1					42	29		32					37		0.4		5.0		149	Other petroleum products
Natural gas	192	5.5	267	3.9				143	53	50	434	1.5	5.5	8.8		2 957	46	3.4		641		4 811	Natural gas
Others	87		150	187		2.0	18	367	14	4.9	83	19	4.7	7.7		31		24		304		1 304	Others

Fuel consumption table for power generation in 2020

	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	2 020	49	3 361	567	65 518	320	3 970	6 407	4 820	1 514	1 923	354	10	288	1 250	10 476	350	1 880	1 769	32 509	1 825	141 181	Main activity producers
Coal	1 515		352	295	48 022	138	2 581	2 340	1 712	982	184	16		0.2	658	1 845	10	776	278	8 274	1 230	71 208	Coal
Coke					151			0.5														151	Coke
Coke oven gas					415			32	18											0.7		465	Coke oven gas
Blast furnace gas					1 293			71	53											5.1		1 422	Blast furnace gas
Other coal products					326			5.4	6.2										33			371	Other coal products
Peat																6.0						6.0	Peat
Crude oil & NGL					6.9			11														18	Crude oil & NGL
LPG					3.9	1.5		2.6														8.0	LPG
Refinery gas					99			48														147	Refinery gas
Naphtha																							Naphtha
Diesel oil	5.9	0.5	8.1	6.8	13	2.1	76	18	3.0	6.4	30	1.3	2.5	0.9	12			2.2	1.1	81	3.4	275	Diesel oil
Fuel oil	0.9		15		109		6.7	86	21	0.5	352			3.0	9.1	27	0.3	30	1.2	113	4.3	778	Fuel oil
Other petroleum products	1.4		19	4.5	146			62												98		330	Other petroleum products
Natural gas	327	49	429	101	2 172	178	408	2 594	1 093	412	977	47	4.6	140	129	5 454	311	706	1 046	11 426	247	28 252	Natural gas
Others	170		2 538	160	12 760	0.3	898	1 137	1 914	114	380	289	2.8	144	443	3 144	28	367	410	12 512	339	37 750	Others
Autoproducers	311	13	443	165		1.6		869	354	69	499	28	34	25		3 676	52	376		1 085		8 001	Autoproducers
Coal		6.5						164	133			0.1		5.1		614		299		38		1 259	Coal
Coke								0.2														0.2	Coke
Coke oven gas			1.6					16	12		0.1	2.2				60		11		2.8		107	Coke oven gas
Blast furnace gas								73	65		2.5	4.9				76		25		13		259	Blast furnace gas
Other coal products								3.9	15													24	Other coal products
Peat																3.8						3.8	Peat
Crude oil & NGL																20						20	Crude oil & NGL
LPG								6.4			0.3					0.8						7.5	LPG
Refinery gas			10					48										8.6		57		124	Refinery gas
Naphtha								0.1	32													32	Naphtha
Diesel oil	33		4.5	3.3				10		2.4	4.5		4.0	0.9		53		0.1		2.1		118	Diesel oil
Fuel oil	0.7		1.7	1.9				41			12		20	0.6		106	3.6	3.2		0.4		190	Fuel oil
Other petroleum products	0.8		2.0					38	25		37					31		0.6		5.8		140	Other petroleum products
Natural gas	202	6.4	247	4.4				138	59	59	318	1.6	5.5	10		2 684	49	3.2		678		4 466	Natural gas
Others	73		176	155		1.6		330	13	7.7	125	19	4.7	8.4		28		20		287		1 250	Others

Power generation capacity - total

	MW																							
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Australia	38 014	45 274	46 073	48 739	49 983	50 247	49 878	50 389	53 142	54 067	56 935	60 798	62 916	65 009	66 232	68 060	74 413	73 300	71 656	74 291	79 312	92 394	98 058	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	Brunei Darussalam
Canada	104 632	111 324	112 537	114 979	118 271	120 459	123 423	124 943	126 073	127 266	131 778	132 491	133 178	133 266	133 779	136 511	144 062	146 552	147 373	148 857	149 686	150 485	153 240	Canada
Chile	5 846	9 894	10 493	10 542	10 993	11 870	12 586	12 865	13 180	14 019	15 731	16 231	17 549	18 153	18 515	20 513	21 436	24 530	26 208	27 534	27 644	30 001	32 452	Chile
China	151 473	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	China
Hong Kong, China	8 387	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	Hong Kong, China
Indonesia	9 355	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	Indonesia
Japan	199 973	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	305 625	306 599	307 917	299 968	305 005	304 337	Japan
Korea	13 495	53 700	56 774	58 964	60 698	64 507	66 444	69 917	73 185	79 775	80 269	84 324	84 261	87 404	90 944	99 360	102 600	110 548	122 363	126 907	131 408	139 145	143 886	Korea
Malaysia	5 541	13 762	14 813	15 671	20 119	24 634	23 626	21 088	22 973	23 029	26 637	24 816	25 599	29 143	32 806	31 595	33 509	33 045	34 183	33 991	36 179	34 998	37 422	Malaysia
Mexico	28 872	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	67 504	72 574	74 431	89 351	93 111	95 982	105 310	Mexico
New Zealand	7 088	8 456	8 555	8 568	8 595	8 892	8 902	8 916	9 469	9 404	9 423	9 817	10 186	10 085	9 926	10 129	9 797	9 635	9 656	9 704	9 737	9 682	9 952	New Zealand
Papua New Guinea		544	544	544	544	544	235	235	275	688	688	984	1 100	1 106	1 138	932	1 291	1 299	1 204	1 226	1 225	1 217	1 219	Papua New Guinea
Peru	4 914	5 931	6 095	6 144	6 177	6 256	6 651	6 663	6 699	6 812	7 085	7 601	7 672	7 806	7 960	8 337	9 434	11 647	12 251	12 691	12 718	12 887	13 054	Peru
The Philippines	6 789	13 185	13 402	14 702	8 757	9 116	9 194	9 438	9 490	9 497	9 585	10 304	10 307	11 089	11 109	11 606	12 293	14 376	15 128	16 070	17 816	18 597	19 388	The Philippines
Russia	212 900	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	Russia
Singapore	4 173	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	Singapore
Chinese Taipei	19 766	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	57 737	59 371	Chinese Taipei
Thailand	9 707	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	53 938	Thailand
United States	719 258	675 032	864 963	924 574	970 741	988 643	1 005 105	1 014 925	1 026 048	1 042 964	1 059 251	1 085 024	1 102 598	1 118 463	1 123 050	1 143 749	1 150 792	1 101 220	1 119 439	1 140 902	1 148 160	1 147 892	1 180 315	United States
Viet Nam	2 987	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	Viet Nam

Power generation capacity - thermal power

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
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	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	Brunei Darussalam
Canada	30 287	32 045	33 565	33 829	35 785	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	32 916	32 916	35 071	34 916	Canada
Chile	2 421	5 442	6 042	6 063	6 503	6 624	7 324	7 597	7 760	8 485	9 601	10 050	10 871	11 125	10 838	12 324	12 621	14 501	14 882	15 060	15 015	15 649	15 802	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	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	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	Indonesia
Japan	124 984	166 648	168 729	172 889	174 721	177 472	175 767	176 339	176 894	179 324	181 736	185 187	188 327	191 942	194 337	196 664	194 388	197 589	197 088	196 650	193 408	195 380	191 875	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	Korea
Malaysia	4 185	11 708	12 695	13 565	18 004	22 337	21 242	18 758	20 611	20 745	23 134	22 488	22 515	24 994	24 973	23 520	23 518	25 732	26 849	26 325	28 293	26 875	28 726	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	Mexico
New Zealand	2 296	2 705	2 762	2 681	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	2 130	2 130	2 133	2 133	2 242	2 242	New Zealand
Papua New Guinea		109	109	109	109	109			128	128	183	287	292	295	316	886	893	898	920	919	911	912		Papua New Guinea
Peru	2 400	3 280	3 350	3 368	3 386	3 440	3 661	3 666	3 685	3 783	3 968	4 283	4 342	4 365	4 465	4 531	5 039	6 073	6 481	6 625	6 605	6 551	6 733	Peru
The Philippines	3 661	8 953	8 953	10 253	3 958	3 967	3 967	4 177	4 213	4 213	4 277	4 867	4 917	5 568	5 568	5 708	5 963	7 419	8 049	8 844	10 417	10 944	11 669	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	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	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	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	41 377	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	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	Viet Nam

Power generation capacity - Hydro power

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
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	8 523	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	81 570	82 710	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	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	China
Hong Kong, China																	0.2	0.5	0.5	0.5	0.5	0.5	0.5	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	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	50 009	Japan
Korea	2 340	3 149	3 914	3 876	3 877	3 879	3 883	5 485	5 492	5 505	5 515	5 525	6 418	6 447	6 452	6 467	6 471	6 485	6 489	6 490	6 509	6 506	6 541	Korea
Malaysia	1 397	2 054	2 118	2 106	2 115	2 095	2 091	2 120	2 120	2 120	2 107	2 107	2 856	3 317	3 916	4 773	5 716	6 130	6 128	6 168	6 190	6 188	6 217	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	12 643	13 301	13 301	13 303	Mexico
New Zealand	4 619	5 193	5 260	5 363	5 365	5 366	5 367	5 367	5 367	5 390	5 326	5 324	5 399	5 413	5 427	5 426	5 426	5 426	5 426	5 426	5 434	5 443	5 443	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	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	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	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	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	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	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	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		Viet Nam

Power generation capacity - Nuclear power

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
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	14 033	14 033	12 513	12 513	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	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	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	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	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	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	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	United States
Viet Nam																								Viet Nam

Power generation capacity - Solar

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Australia		25	29	34	39	46	52	61	73	85	332	1 091	2 473	3 799	4 568	5 287	5 946	6 689	7 354	8 626	12 970	20 838	25 757	Australia
Brunei Darussalam														1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	4.5		Brunei Darussalam
Canada		7.0	9.0	10	12	14	18	22	29	38	107	249	628	766	1 210	1 843	2 519	2 665	2 932	3 095	3 327	3 609	4 554	Canada
Chile														2.0	15	221	576	1 125	1 724	2 298	2 720	3 287	4 712	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	China
Hong Kong, China													1.0	1.0	1.0	1.0	1.0	3.9	5.4	6.1	96	76	160	Hong Kong, China
Indonesia													1.2	4.1	9.0	9.0	37	47	54	60	146	169	201	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	9 110	12 592	14 974	16 522	19 028	21 042	Japan
Korea	1.0	4.0	5.0	5.0	6.0	9.0	14	36	81	357	524	650	730	1 024	1 555	2 620	3 845	4 882	6 435	8 921	12 717	17 323	21 264	Korea
Malaysia														75	161	226	290	358	797	1 050	1 380	1 700		Malaysia
Mexico	5.0	14	15	16	16	16	16	16	19	19	25	29	39	60	82	116	173	362	642	2 579	3 663	5 612	6 903	Mexico
New Zealand									3.0	3.0	3.0	3.0	3.0	4.0	9.0	22	38	53	71	92	117	144	191	New Zealand
Papua New Guinea																								Papua New Guinea
Peru														80	80	96	96	96	283	330	343	289	287	Peru
The Philippines						1.0	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	The Philippines
Russia																227	446	536	574	678	1 418	1 739	1 979	Russia
Singapore																		126	112	157	271	329	487	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	Chinese Taipei
Thailand											9.2	26	79	372	792	792	792	2 149	2 664	2 928	2 949	2 957	2 949	Thailand
United States	339	595	459	457	681	751	881	1 099	1 440	1 619	2 087	3 382	5 644	8 613	13 045	17 651	23 442	34 716	43 115	51 570	60 827	75 794	94 786	United States
Viet Nam																				86	4 685	8 852	16 564	Viet Nam

Power generation capacity - Wind

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Australia		33	76	106	190	379	740	819	1 249	1 441	1 703	1 864	2 127	2 561	3 221	3 797	4 181	4 324	4 812	5 442	6 279	10 207	10 555	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	13 413	13 636	14 066	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	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	China
Hong Kong, China													0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8		Hong Kong, China
Indonesia													0.9	0.9	0.6	1.1	1.5	1.5	1.5	144	154	154	154	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	Japan
Korea		14	22	26	38	4.0	6.0	14	8.0	220	10	6.0	36	42	42	16	26	32	28	29	31	1 645	1 724	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	5 887	6 073	6 995	7 468	Mexico
New Zealand		36	36	54	71	165	167	168	319	321	512	539	622	622	622	681	688	689	689	689	689	690	913	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	Peru
The Philippines								25	25	25	33	33	33	33	33	283	427	427	427	427	427	443	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	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	Chinese Taipei
Thailand											2.5	3.3	7.3	95	185	185	185	507	626	1 100	1 504	1 528	1 510	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	United States
Viet Nam																46	90	90	90	243	377	538	4 126	Viet Nam

Power generation capacity - Biomass

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Australia	236	356	203	298	231	294	869	897	920	728	534	620	428	597	631	727	977	864	864	864	864	871	871	Australia
Brunei Darussalam																								Brunei Darussalam
Canada	914	1 138	1 138	1 138	1 138	1 231	3 365	3 786	3 717	3 810	5 319	5 725	5 617	5 710	3 682	4 201	4 196	4 385	4 412	4 407	4 407	4 086	4 481	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	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	Indonesia
Japan																	3 656	3 818	4 243	2 490	2 875	3 580		Japan
Korea		479	536	470	67	65	83	70	173	172	149	231	298	320	349	573	578	691	736	774	746	800	924	Korea
Malaysia														767	729	974	742	752	552	411	413	411		Malaysia
Mexico	52	42	42	53	53	53	67	67	67	67	67	47	53	60	89	96	96	108	106	67	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	New Zealand
Papua New Guinea														1.5	1.5	1.5	1.5	2.0	2.0	2.0	0.8	0.8		Papua New Guinea
Peru															39	39	137				208	97		Peru
The Philippines										30	38	83	119	119	131	221	233	224	258	363	483	294		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	71	71	71		Chinese Taipei
Thailand																	2 815	2 939	3 155	3 192	3 505	3 330		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	United States
Viet Nam						285	285					24	24	54	70	24	45	24	55	175	175	325	325	Viet Nam

Power generation capacity - Others

	MW																							
	1990	2000	2001	2002	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		
Australia								1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1			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			Canada	
Chile										25	25							24	40	40	40	51	Chile	
China										30	30	190	200	80	190	90	70	70	190	370	410	940	China	
Hong Kong, China																	41	41	45	45	55	54	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	Indonesia
Japan	270	1 725	1 779	1 898	2 286	2 466	2 617	2 906	3 050	3 067	3 203	537	537	512	512	508	517	526	471	473	481	487	487	Japan
Korea										22	38	58	89	384	419	434	474	506	603	725	866	998	Korea	
Malaysia						202	293	210	242	164	1 396	221	228	832	3 075	2 411	3 075	152	96	148	235	142	368	Malaysia
Mexico	700	855	838	843	960	960	960	960	960	963	965	965	887	824	823	813	906	926	985	4 598	4 832	4 832	4 832	Mexico
New Zealand	261	418	417	391	401	401	458	458	477	599	636	988	988	1 014	1 086	1 212	1 236	1 231	1 231	1 255	1 255	1 059	1 059	New Zealand
Papua New Guinea		272	272	272	272	272	72	72	112	399	399	547	547	547	547	320	108	108	108	108	108	108	108	Papua New Guinea
Peru																	15				13	14	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	1 928	1 928	1 928	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	Russia
Singapore				135	460					2.0	4.0	6.0	10	257	257	317	382	112	112					Singapore
Chinese Taipei		371	534	534	534	564	606	634	647	647	647	647	643	648	648	648	649	649	649	649	638	647	653	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	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	United States
Viet Nam																								Viet Nam



4

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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.

BKB¹/PB²

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.

¹ BKB stands for Braunkohlenbriketts

² PB stands for Peat briquettes

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 in-

dustry 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°C and 210°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°C and 220°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 C_5 to C_{12} range. The distillation 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 C_4 and C_5 isoparaffins with C_3 , C_4 and C_5 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 C_9 to C_{16} 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 C_{11} to C_{25} 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 pri-

mary 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 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 consump-

tion 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 customers. 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

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.

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.

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.

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

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.

Table 1. 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.

Table 2. Wholesale prices

Table 2 contains 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.

Prices are either in local currency units or in US dollars.

Table 3. 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. 10^7 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) comprises 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 pro-

duction 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 ± 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 for 2021

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				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	26 368	24 618	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	22 448	17 897						19 887		20 348	19 669			22 098			19 528		19 155	
Lignite	9 800		14 019								11 186	17 274				14 918			13 720	13 837	
Peat																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						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			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	45 544	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	42 776	44 800	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			44 800	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	42 966	44 600	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	44 053	43 800	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	42 496	43 300	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	41 500	40 200	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	44 129	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	38 542	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															13 777				15 990		
Bagasse															17 816				7 530		
Charcoal							30 800	29 300		28 889		29 600		27 214	25 105	30 800			28 880		
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	
Biodiesel	36 800		36 800		29 308		36 800	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 tons of oil equivalent (toe). 1 toe = 0.041868 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

APEC

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