

APEC Energy Statistics 2022

Energy Working Group

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APEC Energy Statistics 2022



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Preface

The APEC Energy Statistics 2022 consists of the following chapters:

- 1. Background information on APEC energy statistics
- 2. Overview of the 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 Philippines; Russia; Singapore; Chinese Taipei; Thailand; The United States and Viet Nam.

Chapter 1 outlines the methodology used to collect and standardize energy data, as well as to produce secondary data such as energy balances and other related tables. It also explains the preparation of socio-economic data.

Chapter 2 presents an analysis of energy demand and supply in the APEC region, including figures and tables showing trends in both areas.

Chapter 3 includes annual tables for each member economy, featuring energy balance data for 2021 and 2022, and energy prices from 2010 to 2022. These tables also present major energy indicators—such as primary energy supply, final energy consumption, and energy demand and supply by source—as well as key economic indicators like population, GDP, balance of payments, foreign exchange rates, purchasing power parity, and price indices. The data spans from 1990 to 2022, focusing on the most up-to-date figures.

The APEC Energy Statistics 2022 is based on the APEC energy database, which aims to establish a comprehensive and consistent energy database within the APEC region. This database supports the identification of key trends in energy supply and demand, aligned with APEC Energy Working Group priorities, such as energy intensity and the share of renewable energy in total primary energy supply and consumption. The database is prepared in close collaboration with member economies.

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

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Background Information on APEC Energy Statistics

Background

ata 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

PEC 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 APEC, 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 pro-

gress 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

A PEC 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 as follows:

Collection format for original energy data

Most of the items found in the APEC Energy Statistics are based on data submitted by the APEC member economies using a set of questionnaires for oil, coal, natural gas, electricity and heat, as well as new and renewable energy (NRE). These questionnaires were developed in 2005 for the collection of annual data for the year 2004.

These are simplified forms of the annual energy questionnaires of the International Energy Agency (IEA) through the harmonisation efforts of the secretariat with IEA. Slight revisions are made to the questionnaires from time to time to catch up with the developments in the energy sector. *Tables 1.1a* and 1.1b show the energy products and flows to be reported in the questionnaires. The definition of energy products and flows can be found in the Appendices.

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

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

The data are reported in the following required units:

Coal and solid coal products
Gaseous coal products

Oil and oil products Natural gas

LNG

Solid and liquid biofuels

Biogas

Electricity

Heat

1000 Metric tons 10¹⁰ kcal (gross)

1000 Metric tons

Million cubic meters

1000 Metric tons 1000 Metric tons 10¹⁰ kcal (gross)

GWh

10¹⁰ 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).

Background information on APEC energy statistics

Page 4

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 agricultura
Gas works gas	White spirit SBP	wastes
Peat	Lubricants	Other primary solid biomass
Peat products	Bitumen	Biogases
Oil shale and tar sands	Paraffin waxes	Industrial wastes
Crude Oil & NGL	Petroleum coke	Municipal solid wastes
Crude oil	Other petroleum products	Black liquor
Natural gas liquids	Gas	Liquid biofuels
Refinery feedstocks	Natural gas	Electricity
Additives / oxygenates	LNG	Heat ¹
Other hydrocarbons	Nuclear	
•		

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

Table 1.1b → Energy flows in the APEC energy database

Indigenous production

Imports

Exports

International marine bunkers

International aviation bunkers

Stock changes

Total primary energy supply

Transfers

Recycled products

Inter-product transfers

Products transferred

Gas separation

Total transformation sector

Main activity producer

Electricity plants

CHP plants

Heat plants

District cooling plants

Autoproducer

Electricity plants

CHP plants

Heat plants

District cooling plants

Gas Processing

Gas works

Liquefaction

Re-gasification

Natural gas blending plants

Gas-to-liquid plants

Refineries

Coal transformation

Coke ovens

Blast furnaces

Patent fuel plants

BKB/PB plants

Liquefaction (coal to oil)

Petrochemical industry

Biofuel processing

Charcoal processing

Non-specified transfor-

mation

Losses and own use

Own use

Transmission and distribu-

tion losses

Total final energy consumption

Industry sector

Iron and steel

Chemical including petrochemi-

cals

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

Domestic air transport

Road

Rail

Inland waterways

Pipeline transport

Non-specified transport

Other sector

Commerce and public services

Residential

Agriculture

Fishing

Non-specified others

Non-energy use

Transformation sector

Industry sector

Transport sector

Other sector

In 2017, ESTO decided to allow member economies to report data in the original units used by the respective economies. Primary and secondary oil products can be reported in litres, barrels and cubic meters or in any other volume or mass units. For example, gaseous products can be reported in joules, BTU, kilocalorie, etc. Calorific values can be reported in joules, BTU and kilocalorie per unit of volume or mass. The purpose of this flexibility is to minimise data errors resulting from the 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 the IEA, ESTO accepts data submissions using the IEA format and downloads the revised questionnaires from the IEA's Energy Validation Outlet (EVO). Computer programs were developed to transfer data from the IEA format to the APEC format and generate energy balance tables. This reduces the reporting burden of these economies to the IEA, APEC and other international energy organisations.

Collection schedule and actual dates of submission

ESTO set 31 March 2024 as the deadline for submitting 2022 data. In principle, all 21 APEC members are expected to submit annual data by this deadline. Two economies, Brunei Darussalam and Chinese Taipei, were able to submit the five energy questionnaires on time. 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 September 2024 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 to improve the data such as checking for consistency and accuracy, was 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 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 2022, 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 2022. 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 will be able to produce its own energy statistics and balances in the future.

For Russia, the economy provided the secretariat with its annual energy resource balances from 2005 to 2021. These balances were highly aggregated such that crude oil and natural gas liquids and the different types of primary coal products are aggregated into "dehydrated, desalted and stabilised oil including natural gas condensates" and "hard and brown coal", respectively. Petroleum products and secondary coal products are aggregated into "fuel processing products" and "combustible secondary energy resources".

these data to be consistent with energy balances in the previous years, the secretariat used the shares of secondary coal and petroleum products in the energy balances produced by IEA in its disaggregation of the data. In addition, Russia did not submit the 2022 data.

Therefore, the secretariat estimated the energy balance for this year using the JODI Oil, JODI Gas and electricity data submitted by Russia's Federal State Statistics Service (Rosstat).

For Singapore, while the

economy submitted the questionnaires, it could not provide a complete set of the energy balance due to data unavailability. Hence, ESTO used the IEA's energy statistics and energy balance as a reference to bridge these data gaps.

Standardisation

he APEC reporting format used in the collection of 2022 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

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 conversion coefficients. standardisation is required. APEC adopted the following 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 upon at 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%

efficiency of primary electricity generation for compatibility

with the 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.

The 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 do not have biomass consumption in the residential sector.

The reporting period may differ in the APEC and IEA surveys.

Other tables

ther 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 ta-

ble 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

ost of the member economies' annual data are calculated by calendar year (1 January—31 December) except for Australia and Japan. These economies account for 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 ac-

cepts submissions 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.

Chile's data from 1980 to 2021 were taken from the energy balances published by the

IEA. The 2022 data are obtained from the Balance Nacional de Energia (NEB) that was provided by the economy. However, the NEB does not have data on international marine and aviation bunkers. ES-TO used the bunkers data of the IEA and subtracted the corresponding amounts to the final energy consumption of domestic aviation and inland waterways.

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 Fi-

nancial 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 downloaded from Chinese Taipei's statistics website (DGBAS). In addition to downloading GDP in Chinese Taipei's local currency and constant dollar values, the GDP PPP (2017 USD) was from IMF-World Economic Outlook and recalculated to PPP 2021 USD by ESTO.

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
- Monthly oil and gas supply and demand

Overview of the APEC Energy Situation



Background

he 2024 edition of the APEC Energy Statistics covers the energy demand and supply situation in APEC using 2022 data. It would be worth noting that this edition of the publication has the latest data officially submitted by EGEDA members. including 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 2021 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 2022 and the RE share doubling from 2010 to 2022. To better understand 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 member economies. The groupings are as follows:

Other Americas

Canada; Chile; Mexico; and Peru

Southeast Asia

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

Oceania

Australia; New Zealand; and Papua New Guinea

Other Northeast Asia

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

China

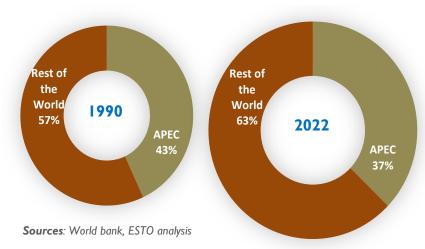
- Russia, and
- United States

APEC and the rest of the world

The world's population increased modestly by 0.8% from 2021 to reach 7.951 billion people in 2022. This was largely driven by a slow increase in the population in APEC in 2022.

The population in APEC reached 2.961 billion people in 2022, just 0.2% increase from 2021. The compound annual growth rate (CAGR) over the period 1990 to 2022 remained at 1.3%. The rest of the world's population, on the other hand, increased by 1.1% to reach 4.991 billion inhabitants during the same year. The share of

Figure 2.1 ♦ World population, 1990 and 2022

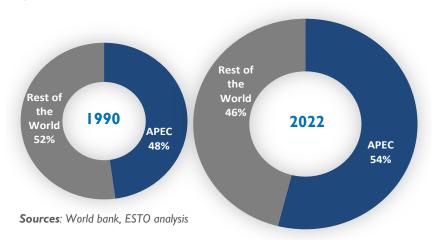


APEC's population from the world was the same in the last

two years (37%) (Figure 2.1).

Three regions recorded de-

Figure 2.2 ♦ World GDP, 1990 and 2022



clines in their respective population from 2021 to 2022, namely, other Northeast Asia (0.5%), (0.4%)and China Russia (0.01%). However, these were offset by the increase in Oceania (1.3%), which drove largely the increase in population in APEC in 2022, as well as increases in other Americas (0.9%), Southeast Asia (0.8%) and the US (0.4%).

In view of growing geopolitical unrest and high interest rates, among others, the world's gross domestic product (GDP), measured in terms of purchasing power parity (PPP)¹, grew three percentage points lower than the previous year to reach almost USD161 trillion (PPP constant 2021 USD) in 2022. This was also translated to a 3.5% CAGR from 1990 to 2022. The rest of the world increased by 4.2% to just over USD74 trillion (PPP constant 2021 USD) in 2022.

A similar slower trend was seen in APEC's GDP. Following

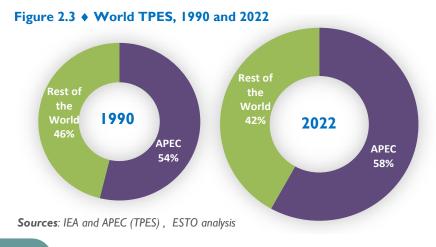
the significant increase of 6.2% in 2021, GDP in APEC was almost four percentage points (3.7%) slower in 2022 than in 2021, reaching almost USD87 trillion (PPP constant 2021 USD). The rate was even lower than the rest of the world's 4.2%), however, APEC's share (54%) of the global GDP remained dominant in 2022. The growth of APEC GDP was driven mainly by Southeast Asia with 6.3% and in part by Oceania with 4.1% and other Americas with 3.6%. The largest economic output continued to be China (34%), the US (28% and other Northeast Asia (12%)(Figure 2.2).

The world's total primary energy supply (TPES) reached 622 exajoules (EJ) in 2022, a 1.3% increase from the 2021 levels. The rest of the world increased just by 0.1% (258 EJ) in the same year.

APEC's TPES, albeit slower than the previous year's, grew by 2.1% to 364 EJ in 2022 or equivalently 2% CAGR between 1990 to 2022. The increase in APEC TPES was largely due to significant increase TPES in Southeast Asia (6.2%) and in part by China (4.5%). APEC's share of the global TPES remained significant at almost 60% in 2022 (Figure 2.3).

PPPs are both currency conversion factors and spatial price indexes. They convert different currencies to a common currency and, in the process of conversion, equalise their purchasing power by controlling for the differences in price levels between economies. They show, with reference to a base economy, the relative price of a given basket of goods and services in each of the economies being compared. The common currency used for global ICP comparisons is the United States dollar

(WB, 2025))



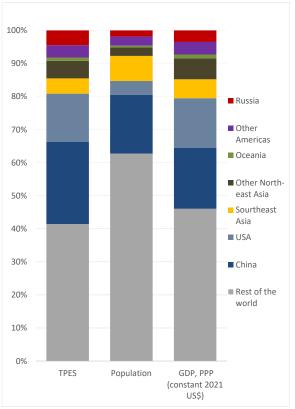
In 2022, the top three regions in APEC in terms of TPES, namely China (25%), the US (15%) and other Northeast Asia (5%) accounted for almost half of the world's primary energy supply. In relative terms, this was over four percentage points than the rest of the world in 2022 (*Figure 2.4*). In terms of GDP, the same regions, with the inclusion of Southeast Asia (which tied the spot with other Northeast Asia), comprised 46% of the world's GDP (PPP constant 2021 USD) in 2022. This was equivalent to the share of the rest of the world's GDP in 2022. APEC's share of the world's population in 2022 was 37%. This was more than half of the rest of the world's share of the population.

The relative shares of the regions within APEC varied in

2022. China's total primary energy supply was equivalent to the combined TPES of the US. other Northeast Asia and Southeast Asia. China's share of the GDP (PPP constant 2021 USD) was almost close to the US and other Northeast Asia's combined GDP (PPP constant 2021 USD) in 2022.

The top three regions in APEC in terms of TPES accounted for almost 40% of the world's population and 50% of the world's GDP (measured in PPP 2021 USD) and consumed 42% of the total world energy.

Figure 2.4 ♦ Relative shares, APEC and the rest of the world, 2022

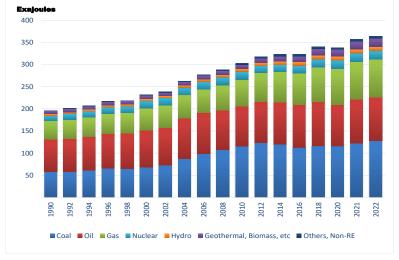


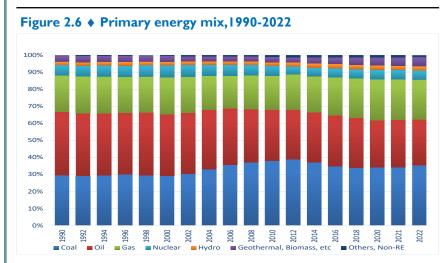
Sources: APEC, IEA, World Bank, WEO, ESTO analysis

Energy supply trends

he total primary energy supply (TPES) in APEC increased by 2.1% to 364 exajoules (EJ) in 2022, just 0.6% over its ten-year average and 0.4% above the pre-pandemic level. However, this was lower than expected after the significant rebound of the global economy from COVID-19 in 2021 (5.4%) (Figure 2.5). Nevertheless, the compound annual growth rate (CAGR) between 1990 and 2022 was maintained at 2.0%. Southeast Asia drove the overall expansion of TPES with the region's 6.2% increase to a historic level of more than 28 EJ in 2022.

Figure 2.5 ♦ Total primary energy supply, 1990-2022





Sources: APEC data, ESTO analysis

China's primary energy supply grew by 4.5% to more than 154 EJ in 2022. This growth is over two percentage points lower than the previous year but at the same rate as before the pandemic.

Two other regions posted similar increases in primary energy supply in 2022. Other Americas' TPES was 2.5% more than in 2021 while the US grew modestly by 1.6% but has started to pick up to the level seen before the pandemic.

The remaining regions registered a drop in TPES from 2021 to 2022. As the geopolitical unrest continued, Russia's TPES fell significantly by 6% to almost 28 EJ in 2022. Both other Northeast Asia and Oceania's TPES fell by 2.4% in 2022. Oceania's primary energy supply in 2022 was at the same level as ten years ago.

Primary energy mix by source

The dominance of fossil fuels in APEC's TPES remained in 2022. accounting for 86% of

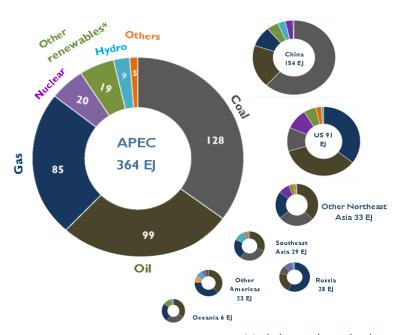
TPES or over 311 EJ. (*Figure 2.6*). The CAGR of fossil fuels from 1990 to 2022 stood at 1.9%. Coal continued to be the majority among fossil fuels, constituting 35% of APEC's energy supply and grew by more than 4% in 2022. Oil and gas maintained their positions as the second and third largest fuel sources in 2022, contributing

27% and 23% of the primary energy supply, respectively. While both fuel sources posted significant increases in 2021, the oil supply fell by over 500 petajoules (PJ): the gas supply, on the other hand, increased by just less than 500 PJ in 2022.

Comprising just over 5% of TPES, the combined solar, wind and biomass maintained strong growth with a more than 11% increase from the 2021 level and driving the overall primary energy supply in 2022. Geothermal recovered from its decline in the previous year and grew by 3.3% (58 PJ), while hydro grew by just over 1% (116 PJ) in 2022. In contrast, although miniscule, nuclear supply declined by just about 0.2% (40 PJ) in 2022, after a significant recovery in 2021.

Primary energy mix by region

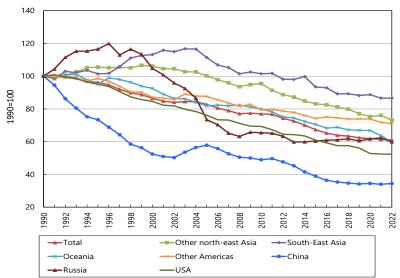
Figure 2.7 ♦ Primary energy mix by region 2022



Sources: APEC data, ESTO analysis

* includes geothermal, solar, biomass, wind, tidal/ocean

Figure 2.8 ♦ Primary energy intensity by region 1990-2022



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

The structure of energy mixes by region remained largely unchanged in 2022. The primary energy supply sources within APEC continued to be mainly from China and the US. China comprised more than 40% of APEC's primary energy supply and was responsible for more than 70% of APEC's coal supply, more than half of hydropower sources and 40% of solar, wind and biomass supply combined in 2022. (Figure 2.7). The US maintained its position as the second-largest primary energy-consuming region in APEC in 2022. It comprised a quarter of APEC TPES and was responsible for 45% of the nuclear supply, over 30% of gas and oil sources and 50% of all other primary supplies in APEC. other Northeast Asia (10%) regained its position and overtook Russia at the third spot of APEC's primary energy supply in 2022. Russia slid to

the fourth-largest primary energy consumption in APEC and was sharing the slot with Southeast Asia in 2022. Southeast Asia continued its role as the main contributor of geothermal sources, with more than 50% of APEC's geothermal sources followed by the US (22%).

Fossil fuels continued to underpin each region's respective energy mixes in 2022. China is by far the largest primary consumer of coal in APEC and reached a historic level of 95 EJ (62% of its TPES) in 2022. Russia's energy mix was comprised of more than 50% gas. In the US, oil and gas were equally distributed, each occupying a third of its energy mix. Other regions similarly have more than 30% oil in their energy mixes.

Primary energy intensity

Primary energy intensity is defined as the ratio of total primary energy (petajoules) and GDP (PPP constant 2021 USD billion). Primary energy intensity in 2022 improved slightly compared with 2021. Following a 0.8% reduction in 2021, 2022 saw a 0.4 percentage point lower reduction, resulting in a ratio of 4.2 MJ/USD (PPP constant 2021 USD). The reduction is mostly attributed to the Oceania region improving by 6.2% from 2021 to 2022. Primary energy intensity in Russia Northeast and other Asia showed improvement in 2022 with a 4% and 3.8% reduction,

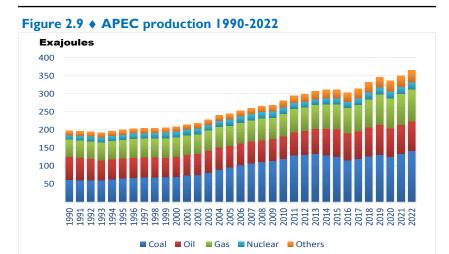
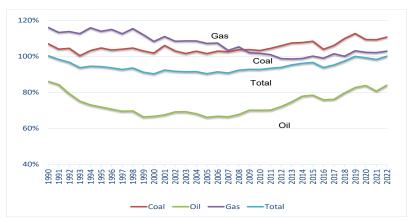


Figure 2.10 ◆ APEC energy self-sufficiency, 1990-2022



Sources: APEC data, ESTO analysis

respectively. Despite the fluctuations within the region over the years, the primary energy intensity of APEC has improved constantly, registering an over 39% reduction from 1990 to 2022 (Figure 2.8).

Production

While 0.4 percentage points short of the previous year's growth, APEC's total production reached a record-high level of almost 365 EJ in 2022 (Figure 2.9). The growth was primarily attributed to China's 9.4% increase to a record-high production level of around 128 EJ in 2022. The overall growth was also due in part to the US' over 4% production increase from the 2021 level, reaching a historic level of production of just over 97 EJ in 2022. Other Americas production expanded by almost 4% as well, offsetting the low production in other Northeast Asia (0.8%) and the reduction in production

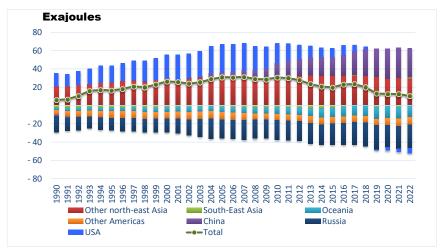
experienced by Southeast Asia (-5.1%) and Russia (-2.3%).

In 2022, APEC's self-sufficiency level was back to its pre-pandemic level and a little over 100%. APEC is more than self-sufficient in coal (111%), gas (103%), and all other fuel sources. On the other hand, oil remained below the sufficiency level (84%) in 2022 (*Figure 2.10*).

Net imports by region

APEC maintained its status as a net importer in 2022, with net imports (Imports – Exports) declining by more than 17% compared to the previous year 2.11). The import-(Figure export structure in 2022 changed a bit. Southeast Asia was back to being a net importer in 2022 after three consecutive years of acting as a net exporter from 2019 to 2021. China and other Northeast Asia remained to be net importers in 2022. The other regions functioned as net exporters together with the US which remained a net exporter since 2019.

Figure 2.11 ♦ Net imports by region, 1990-2022



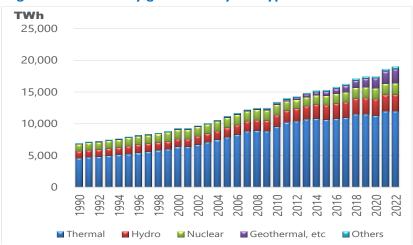
Power generation

by 2.4% to a historic level of 19 058 TWh in 2022. The continued upsurges of electricity output from renewables and all other fuel sources bolstered electricity generation in 2022. This is equivalent to a CAGR of 3.2% between 1990 and 2022. Its share of total power generation rose from 11% to 13% in 2022 (Figure 2.12).

Southeast Asia spurred the growth of electricity generation in APEC with its 5.4% increase from 2021 to 2022. On the other hand, China's share of the overall electricity output was dominant, even exceeding its previous year's generation output with a historic 8 849 TWh in 2022.

Electricity output from renewable energy (excluding hydro), in particular, the combined so-

Figure 2.12 ♦ Primary generation by fuel type. 1990- 2022



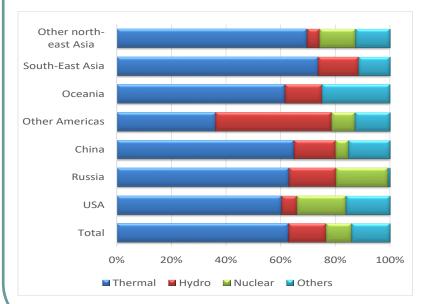
Sources: APEC data, ESTO analysis

lar, wind, biomass and ocean surged by over 19% to a neverbefore-seen 2 558 TWh level, exceeding the 2021 electricity generation from renewable energy. This was likely in view of the record-high increases in the electricity generation for renewable energy in most of the APEC regions, an indication of

the increasing race to the energy transition. In particular, Russia's electricity output from renewables (solar, wind, biomass and tide combined) expanded by almost twice the 2021 level (63%) to a historic 6 025 GWh in 2022. In other regions, such as other Northeast Asia (24%.0),Southeast Asia (17.4%) and Oceania (17.2%), electricity generation from renewables expanded by either more than or almost 20%, respectively, in 2022 (Figure 2.13).

Despite the expansion in electricity generation from solar, wind, biomass and other renewables, electricity output from hydro (1.6%) and geothermal (2.7%) did not grow much in 2022. While the APEC region has the largest geothermal potential in the world, financial cost was the main hurdle especially for projects of this scale. Hydro, on the other hand, depends highly on weather

Figure 2.13 ♦ Power energy mix by region 2022



events (hurricanes, droughts, etc) or water sources, for example, droughts would reduce the power generation from hydro sources. The hydropower fleet grew in particular in Southeast Asia (15.8%) while the 6.7% geothermal electricity output increase, was in other Americas.

Although electricity output from fossil fuels dropped by just 0.1% in 2022, their share of total power generation was unceasingly dominant (63%). The decline was due, in particular, to the 7% reduction in electricity generation from oil in 2022. Despite the spike recorded by electricity output from oil in Southeast Asia (57%), this was

offset by the decreases experienced by other Americas (42.7%) and China (23.4%). Electricity output from coal likewise dropped by 0.7%, however, the level was even higher than before the COVID-19 pandemic. The decline in coal for power generation was especially evident in the US (7.9%) and other Americas (7.5%).

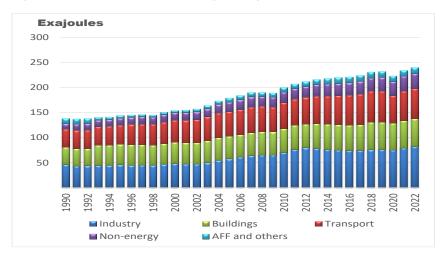
Energy demand trends

otal final consumption (TFC) **APEC** in (including non-energy use) increased by just over 2% to over 240 EJ in 2022 after rebounding from the COVID-19 pandemic by 5% in 2021. The rate was equivalent to the 1.7% compounded annual growth rate (CAGR) between 1990 and 2022. The industry sector was responsible for more than 30% of APEC consumption and drove the overall growth with its 3.3% expansion in 2022 (Figure 2.14). Non-energy consumption grew by 2.7% to over 30 EJ, the most significant level by far historically. China was responsible for more than 40% of the growth in non-energy consumption in 2022.

Total final energy consumption by sector

A similar trend was observed in the total final energy consumption (TFEC-excluding non -energy use) in APEC in 2022, with the same pace as TFC

Figure 2.14 ♦ Total final consumption by sector, 1990-2022



Sources: APEC data, ESTO analysis

(2.3%) after the huge rebound in 2021. Despite the slower pace, the final energy consumption reached its highest level of almost 210 EJ in 2022.

The more than 10% expansion in the manufacturing of non-ferrous metals, such as aluminum, copper, lead, zinc, etc., spurred energy consumption in the industry sector (3.4%) in 2022. These metals are generally used to produce

low-carbon energy sources essential to meeting the requirements of the energy transition.

Consumption in the transport sector grew by just over 1% in 2022. It was almost 6% short of the increase from last year's expansion and even well below (4% less) the pre-COVID-19 level. The reduced growth was due in part to the decline in both air and marine transportation demand in 2022.

The residential sector, the third largest and accounted for 18% of APEC energy consumption in 2022, rose by 1.4%. This was over one percentage point lower than in 2021. Nevertheless, the increase brought the consumption level of the household sector to a historic high level of almost 37 EJ in 2022.

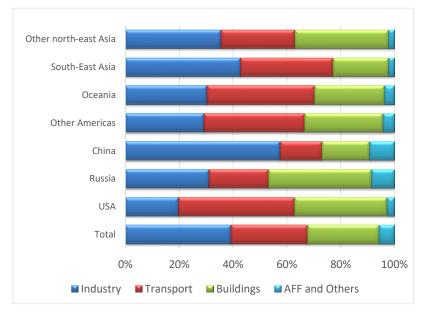
Energy consumption in the services sector (8% of TFEC) saw an unexpectedly slower pace of 2.5% to over 19 EJ in 2022. Similar to the trends in the transport sector, the rate was 0.7 percentage points lower than the previous year's and well below the consumption level before the pandemic.

The growth in energy consumption in the agriculture (with fishery and forestry) sector, the least among the energy sectors (5% of TFEC), was likewise the smallest with less than 1% in 2022.

Total final energy consumption by region

Southeast Asia's (SEA) enconsumption (16.8%)grew eight times more than that of APEC's TFEC. The increase was spurred by the significant increases in energy consumption in six of the seven SEA APEC economies, in particular Indonesia with astounding almost 30% expansion from 2021 to 2022; Malaysia (14%) and Thailand (12%) (Figure 2.15). The overall

Figure 2.15 ♦ Total final consumption by region, 2022



Sources: APEC data, ESTO analysis

growth of energy consumption was also driven by huge growth of the industry sector in SEA with almost 30% in 2022.

Other Americas likewise contributed to the overall growth of energy consumption with an almost 6% increase in 2022. Energy consumption in the transport sector (12%) spurred the overall growth of the region's energy consumption in 2022.

In 2022, the combined energy consumption of China and the US comprised more than 60% of TFEC. While energy consumption in the US grew more than 3% in 2022, China's was surprisingly much slower pace, at less than 1%.

Energy consumption in Oce-

ania grew measly by less than 1%. In contrast, energy consumption in other Northeast Asia fell by 1.6% to a level first seen almost three decades ago.

Final energy consumption by energy source

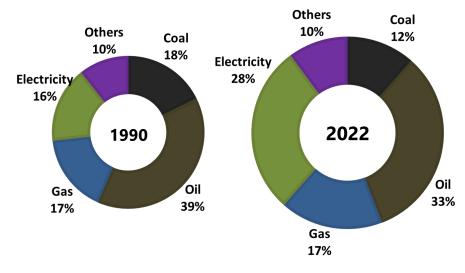
For the second consecutive year, heat drove the overall consumption in APEC in 2022. With just 6% share of TFEC, heat consumption grew by almost 8% in 2022. Heat is primarily used for industrial processes and, in part, for space and water heating in buildings. In 2022, demand for heat in mining and quarrying and manufacturing of non-ferrous metals (both rose by 19%) spurred the total final energy consumption (TFEC) in APEC.

Fossil fuels comprised more than 60% of the APEC TFEC. Oil consumption dominated both the TFEC (more than 30% share) and the total fossil fuel (over 50%) but grew by a slower pace of just over 1% to more than 68 EJ in 2022. This was also more than 2 EJ short of the pre-COVID-19 level. More than 70% of oil demand in 2022 was from the transport sector. Gas, the second largest fossil fuel, grew by just over 10% in 2022 while coal increased by more than 2%.

Electricity was responsible for almost 30% of APEC's final energy consumption, which grew 4% to almost 60 EJ in 2022. It was the primary

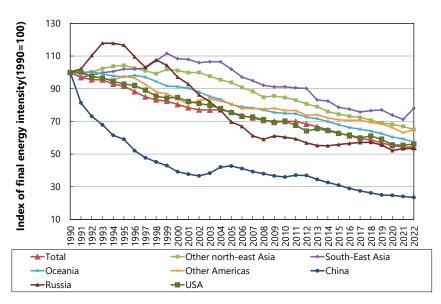
source of energy in both the services and household sectors. In contrast, renewable energy dropped by 2% in 2022 (Figure 2.16).

Figure 2.16 ♦ Total final energy consumption by source. 1990 and 2022



Sources: APEC data, ESTO analysis

Figure 2.17 ♦ Final energy intensity by region, 1990-2022



Sources: World Bank (GDP), DGBAS (CT), APEC data, ESTO analysis

Final energy intensity

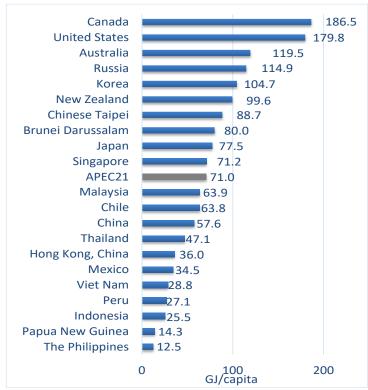
Final energy intensity [Total consumption final energy (PJ)/GDP (PPP, constant 2021 USD)] in APEC continued to show improvement over the last two decades. Between 1990 and 2022, energy intensity reduced by 45.8% to 2.4 MJ/USD (PPP, constant 2021) (Figure 2.17). Final energy intensity improvements were recorded in all the regions ranging from 20 to almost 80% reduction between 1990 and 2022.

(Note: this is not the APEC energy intensity goal with 2005 as the base year.)

TFEC per capita

Energy per capita in APEC increased by 2% to 70.9 gigajoules (GJ) in 2022, an all-time high per capita level. Canada 186.5 GJ); the US (179.8 GJ); and Australia [(119.5 GJ dislodging Russia (114.9 GJ), now in the fourth slot] were the top three energy users in 2022. Eleven economies were well below the APEC average energy per capita, including China (in the 14th place with 57.6 GJ). Southeast Asia's average energy consumption per capita, despite contributing to the growth of final energy consumption in APEC in 2022, was well below APEC average (Figure 2.18).

Figure 2.18 ♦ Energy consumption per capita, 2022

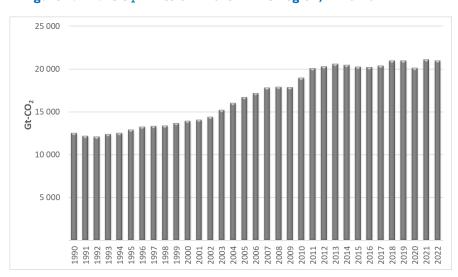


Sources: World Bank, DGBAS (CT), APEC data, ESTO analysis

CO₂ emissions

lbeit at a slower magnitude, CO_2 emissions in 2022 were reduced by 0.6%. The slower pace of fossil demand in 2022 and, consequently, the transport sector, redounded to lower CO₂ emissions in 2022. Similarly, the decreases in CO₂ emissions posted in Russia (9.3%), the Oceania (4.3%) and other Northeast Asia (0.5%), contributed to lower CO₂ emissions in 2022 (Figure 2.19).

Figure 2.19 ♦ CO₂ Emission in the APEC region, 1990-2022



APEC goals

Energy intensity goal

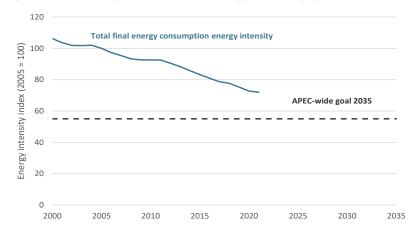
he APEC region made progress toward its goal of improving energy intensity by 45% by 2035 (relative to 2005) over the period 2005 to 2022. Both final energy consumption and GDP in APEC in 2022 grew at a slower pace resulting tor the energy intensity to fall 28.2% between 2005 and 2022. Given the intensity improvement from 2005 to 2022, the APEC-wide energy intensity will only need 1.5% reduction on average each year 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

Figure 2.20 ♦ Progress on APEC energy intensity goal,2005-2022



Sources: World Bank, APEC data, ESTO analysis

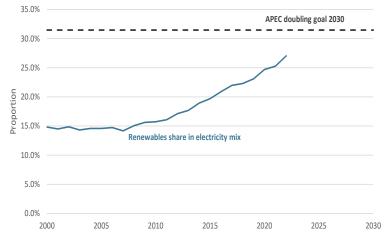
modern renewables in the energy mix by 2030 (relative to 2010). With just 40% of the time to the goal, the modern renewable share of final energy consumption increased by 76% in 2022 or equivalently from its 2010 share of 6.02% to 10.57% in 2022. Given this growth of renewables utilisation, the APEC 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 4.81% in 2010 to 8.03% in 2022. Like in TFEC, with only 40% 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 2022, electricity output from renewable energy was well over 27% or equivalent to a rise of more than 70% compared with 2010 (Figure 2.21). Given the increasing utilisation of renewable energy with just 40% of the time to the goal, the doubling goal share to final energy consumption, TPES and power generation will likely be met by 2030.

Figure 2.21 ♦ Progress on APEC RE doubling goal (Power generation mix),2010-2022



Energy balance table

his section presents the 2022 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 nonenergy.

New energy products and technologies such

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

Table 2.1 * APEC Energy balance table (PJ), 2022

	Coal	Coal products	Peat	Peat products	Oil shale and oil sands	Crude Oil, NGL and condensate	Petroleum products	Gas	Nuclear	Hydro	Geothermal	Solar	Tide, Wave, Ocean	Wind	Solid Biomass	Others	Electricity	Heat	Total	Total Renewables
1 Indigenous production	141 802					82 836		87 566	19 667	9 157	1 838	3 319	2	4 807	9 331	4 539		2	364 864	31 754
2 Import	18 334	135				57 762	22 500	19 983							107	185	486		119 491	292
3 Export	-27 034	- 867				-31 049	-26 715	-22 710							- 75	- 181	- 484		-109 116	- 257
4 International marine bunkers							-4 182									- 6			-4 188	- 6
5 International aviation bunkers							-2 685												-2 685	
6 Stock change	-4 147	- 183				929	- 866	202							1	3			-4 061	3
7 Total primary energy supply	128 956	- 915				110 477	-11 949	85 041	19 667	9 157	1 838	3 319	2	4 807	9 364	4 540	2	2	364 305	31 787
8 Transfers						-6 170	1 630												-4 541	
9 Main activity producer	-79 067	-2 222				- 7	-1 460	-31 546	-19 637	-9 053	-1 765	-2 569	- 2	-4 744	-3 014	-1 188	65 928	12 989	-77 358	-21 572
10 Autoproducer	- 589	- 388				- 29	- 610	-1 710		- 104	- 34	- 568		- 62	- 521	- 382	2 680	2 632	314	-1 419
11 Gas processing	-1 132	- 148					- 47	- 370											-1 698	,
12 Petroleum refineries						-105 286	107 535												2 249	·
13 Coal transformation	-23 501	13 941					- 16									- 5			-9 581	
14 Other transformation	- 21					1 377	- 728	-1 772							- 215	- 1	- 3	4	-1 360	- 216
15 Losses & own-use	- 498	- 423				- 448	-6 351	-7 950							- 38	- 1	-9 083	-1 541	-26 333	- 39
16 Discrepancy	-4 474	- 308				1 419	643	-1 569	- 30						56	- 138	70	-1 561	-5 891	- 89
17 Total final consumption	19 674	9 537				1 332	88 646	40 123			39	182			5 631	2 825	59 593	12 524	240 107	8 452
18 Total final energy consumption	16 131	8 019				30	68 476	36 500			39	182			5 631	2 825	59 593	12 524	209 950	8 452
19 Industry sector	13 583	7 897				29	6 604	16 518			5	2			3 103	259	26 800	7 383	82 180	3 207
20 Transport sector	24						52 186	3 758								2 434	1 299		59 701	2 434
21 Other sector	2 524	122				1	9 687	16 225			35	181			2 529	132	31 494	5 141	68 069	2 812
21.1 Residential & commercial	1 666	119					5 607	15 599			32	179			2 216	90	26 122	4 359	55 990	2 476
21.2 Agriculture	392	1					2 281	176			2				287	6	1 197	128	4 469	295
21.3 Other	466	2					1 798	451				1			25	36	4 175	654	7 610	41
22 Non-energy	3 543	1 519				1 303	20 170	3 623											30 157	

Energy Balances and Other Tables by Member Economy



Australia

Energy balance table of Australia

2022

											Petajoules	;										
						Petrole	eum products															
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	11 416		807								5 453	59		'	146	105	197	3.6	5	18 186	507	Production
Import	2.9	12	359	1 493	288	134	949	18	19	85	137									2 004		lm port
Export	-9 671	- 17	- 593	- 159	-4.9		-0.7	-6.3	- 142	-5.5	-4 173									-14 613		Export
International marine bunkers				- 25			-2.5	- 23												- 25		International marine bunkers
International aviation bunkers				- 74		- 74														- 74		International aviation bunkers
Stock changes	- 176		-3.9	2.9	3.8	3.0	-7.3	0.1	1.8	1.5	25									- 152		Stock changes
Total primary energy supply	1 572	-5.1	570	1 237	287	63	939	- 11	- 121	81	1 442	59			146	105	197	3.6	5	5 326	507	Total primary energy supply
Transfers			- 121	234					161	73										113		Transfers
Total transformation sector	-1 512	59	- 552	509	193	22	167	10	8.9	108	- 468	- 59			- 125	- 105	- 43		975	-1 321	- 332	Total transformation sector
Main activity producers	-1 395			- 11			-9.5	-1.1		-0.1	- 270	- 59			-42	- 105	- 17		800	-1 098	- 222	Main activity producers
Autoproducers				- 32			- 30	-0.6		-0.7	- 198				- 83		- 26		175	- 164	- 109	
Gas processing																						Gas processing
Petroleum refineries			- 552	551	193	22	207	12	8.9	108										-1.5		Petroleum refineries
Coal transformation	- 117	59																		- 57		Coal transformation
Other transformation		-																		0.		Other transformation
Losses & own use		- 34	-1.1	- 180			- 125	-1.9	-0.2	- 53	- 398								- 180	- 792		Losses & own use
Discrepancy	32	01	105	- 97	1.2	0.3		12	- 14	- 46	- 56								100	- 16		Discrepancy
Total final consumption	93	20		1 702	480	85		9.0	34	162	521				21		154	3.6	6 795	3 3 1 0	175	
Total final energy consumption	93	20		1 552	480	85		9.0	28	18	469				21		154			3 108	175	
Industry sector	93	20		190	0.5		161	2.3	8.2	18	259				21		101			950	101	Industry sector
Mining and quarrying	3.9	1.2		133	0.5		127	0.5	1.8	4.5	4.7						101	3.0	82	225	101	Mining and quarrying
0 , , ,	3.3	1.2		25	0.1		24	0.4	0.2	4.3	2.4								7.3	35		Construction
Construction Iron and steel	0.2	11		0.8	0.1		0.5	0.4	0.2	0.2	9.3								12	34		Iron and steel
	5.8	0.5		4.6			4.4	0.2		0.2	3.3						0.4	3.5		65	0.4	
Chemical & petrochemical	1	4.0							0.7								1.7				0.4 1.7	'
Non-ferrous metals Non-metallic minerals	54 17	0.1		10 6.9			1.8 1.2	0.2 0.6	0.7 3.8	7.7 1.4	119 42						2.6		115 11	304 80	2.6	
	17	0.1		0.3			1.2	0.0	3.0	1.4	42						2.0		- 11	00	2.0	
Transportation equipment				0.7			0.5		0.0		0.5								4.0			Transportation equipment
Machinery				0.7			0.5		0.2		0.5								4.8	6.0		Machinery
Food, beverages and tobacco	5.2			5.5	0.4		1.7	0.3	1.0	2.0	30						77			140	77	Food, beverages and tobacco
Pulp, paper and printing	2.0			2.0			0.1		0.1	1.8	8.5						8.1		12	32	8.1	Pulp, paper and printing
Wood and wood products	0.1			0.4			0.3				1.8						11		2.9	17	11	Trood and mood products
Textiles and leather	0.3			0.3				0.1	0.2		4.0								0.5	5.2		Textiles and leather
Non-specified industry	3.9	3.6		0.5			0.1		0.1	0.4	0.1								0.6	8.8		Non-specified industry
Transport sector				1 225	473	85		6.6	7.0		18						4.0		24	1 271	4.0	
Domestic air transport				87	2.0	85														87		Domestic air transport
Road				1 049	460		582		6.7		8.0						4.0		0.5	1 054	4.0	
Rail				48			48												12	60		Rail
Inland waterways				31	11		14	6.1												31		Inland waterways
Non-specified transport				9.8	0.1		8.9	0.6	0.2		17								12	39		Non-specified transport
Other sector	0.1			137	6.9		116		13		192				21		49		488	887	70	
Residential				10					10		148				21		48		249	476	68	
Commerce and public services	0.1			29			28		0.6		43				0.6		1.1		232	306	1.6	'
Agriculture				97	6.9		87		2.6		1.1								6.4	104		Agriculture
Fishery																						Fishery
Non-specified				1.3			1.2													1.3		Non-specified
Non-energy				150					5.8	144	52									202		Non-energy
										Elect	tricity and heat	output										
Electricity generated (GWh)	133 592			4 664			4 405	172		87	49 280	16 297			34 687	29 108	3 190			270 818	83 282	Electricity generated (GWh)
Electricity plants	131 720			4 583			4 405	172		6	37 121	16 297			34 687					254 800	81 375	, ,
CHP plants	1 872			81						81	12 159				2.23	22 .30	1 906			16 018	1 906	
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants
от рино	L																					OTE PIGITO

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

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

Energy balance table of Australia

2021

											Petajoules											
		01	Out at			Petrole	um products										Other		Florida in a second		Total	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	11 468		785								5 140	53			119	88	197	3.8	l	17 855	i .	Production
Import	3.9	8.8		1 275	252	94	816	13	16	84	187									1 966	:	Import
Export	-9 847	- 19	- 564	- 149	-0.4		-1.0	- 17	- 122	-8.8	-3 817									-14 395	: 1	Export
International marine bunkers				- 17			-1.8	- 15												- 17	i I	International marine bunkers
International aviation bunkers				- 53		- 53														- 53	i	International aviation bunkers
Stock changes	70		17	-8.0	-4.7	0.8	-1.7	-0.2	-0.3	-1.9	19									98	ò	Stock changes
Total primary energy supply	1 694	- 10		1 047	247	42	812	- 20	- 107	73	1 530	53			119	88	197	3.8		5 453		7 9/ 11/
Transfers			- 91	220					140	80										129		Transfers
Total transformation sector	-1 584	65	- 775	712	286	30	221	17	24	135	- 471	- 53			- 100	- 88	- 43		954	-1 383		
Main activity producers	-1 467			-8.4			-6.5	-1.0		-0.9	- 279	- 53			- 33	- 88	- 19		797	-1 152		Main activity producers
Autoproducers				- 36			- 35	-0.6		-0.9	- 192				- 67		- 24		158	- 161	- 91	Autoproducers
Gas processing			775	757	000	20	000	40	0.4	420										40		Gas processing
Petroleum refineries	447		- 775	757	286	30	262	19	24	136										- 18	i .	Petroleum refineries
Coal transformation	- 117	65																		- 52		Coal transformation
Other transformation		25	4.2	404			400	4.4	0.0	52	200								47.	704		Other transformation Losses & own use
Losses & own use Discrepancy	- 17	- 35	-1.3 137	- 181 - 88	- 11	-5.6	- 126 - 14	-1.4 13	-0.3 - 17	- 53 - 54	- 389 - 143						0.6		- 175	- 781 - 110	i I	Discrepancy
Total final consumption	94	20		1 710	521	-5.6	893	9.3	40	181	527				20		154	3.8	779	3 307		
Total final energy consumption	94	20		1 541	521	66	893	9.3	33	17	474				20		154	3.8		3 085		
07	93			188	0.5		159	3.2	7.9	17	266				20		103	3.8		956		Industry sector
Industry sector Mining and quarrying	3.2	0.8		130	0.5		124	0.6	1.4	4.1	5.0						103	3.0	81	219		Mining and quarrying
Construction	3.2	0.0		26	0.1		25	0.4	0.2	4.1	2.4								7.7	36		Construction
Iron and steel	0.2	11		0.9	0.1		0.5	0.4	0.2	0.2	9.0								12	33	: 1	Iron and steel
Chemical & petrochemical	4.8	0.6		5.0			4.7	0.2		0.1	38						0.4	3.6		66	: I	Chemical & petrochemical
Non-ferrous metals	58	3.6		11			1.3	1.1	0.7	7.4	123						1.0		116	312		Non-ferrous metals
Non-metallic minerals	15	0.1		6.8			0.9	0.5	3.8	1.5	44						2.7		11	80	i I	Non-metallic minerals
Transportation equipment		0.1		0.0			0.0	0.0	0.0	1.0							2		•			Transportation equipment
Machinery				0.7			0.5		0.2		0.5								4.6	5.8		Machinery
Food, beverages and tobacco	5.4			5.2	0.4		1.4	0.3	1.1	2.0	30						79	0.2	1	142	i .	Food, beverages and tobacco
Pulp, paper and printing	1.5			2.1			0.1		0.1	1.8	8.4						8.1		11	31		Pulp, paper and printing
Wood and wood products	0.1			0.2			0.2		0.1		1.8						12		2.8	17		Wood and wood products
Textiles and leather	0.4			0.3				0.1	0.2		4.1								0.5	5.3		Textiles and leather
Non-specified industry	4.1	3.9		0.5			0.1		0.1	0.3	0.1								0.7	9.2	: 1	Non-specified industry
Transport sector				1 205	514	66	612	6.1	7.1		18						3.7		23			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	: 1	Road
Rail				49			49												12	61		Rail
Inland waterways				29	12		11	6.1												29		Inland waterways
Non-specified transport				8.6	0.2		8.2		0.2		16								11	35		Non-specified transport
Other sector	0.2			148	7.2		122		18		191				20		48		473	878	67	Other sector
Residential				15					15		149				19		47		236	466	1	Residential
Commerce and public services	0.2			28			28		0.5		40				0.4		1.0		229	299		Commerce and public services
Agriculture				103	7.2		93		2.7		1.1								7.5	112		Agriculture
Fishery																						Fishery
Non-specified				1.3			1.2													1.3		Non-specified
Non-energy				169					6.2											222		Non-energy
	,									Elect	ricity and heat	output										
Electricity generated (GWh)	140 311			4 662			4 290	173		199	49 783	14 761			27 717	24 535	3 346			265 115		Electricity generated (GWh)
Electricity plants	138 226			4 566			4 290	173		103	37 776	14 761			27 717	24 535				249 059		
CHP plants	2 086			96						96	12 007						1 868			16 056	1 868	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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Major energy indicators of Australia

major energy inc	licator	5 UI AU	isti ali									D.	etajoules													
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Total Primary energy supply	3 606	3 873	4 52 6	4 427	4 473	4 637	4 717	4 75 1	4 9 4 5	5 105	5 295	5 307	5 3 1 6	5 330	5 267	5 358	5 31 5	5 3 0 3	5 284	5 482	5 521	5 6 1 7	5 615	5 453	5 326	Total Primary energy supply
P ro ductio n Imp ort	6 595 603	7 825 873	9 779 1 105	10 433 1 148	10 638 1 178	10 568 1 177	10 643 1 185	11 102 1 302	11 298 1 384	11 980 1 526	12 008 1 687	12 364 1 704	13 538 1 785	13 096 1 915	13 437 1 948	14 501 2 079	15 41 1 2 05 3	16 033 2 008	16 204 2 040	16 971 2 090	17 553 2 229	18 656 2 216	18 958 2 088	17 855 1 966	18 186 2 004	Production Import
Export	-3 304 2 207	-4 609 2 430	-6 428 2 728	-6 749 2 752	-7 021 2 773	-6 987 2 770	-7 123 2 830	-7 530 2 815	-7 506 2 844	-8 048 2 931	-8 228 2 979	-8 522 2 974	-9 584 3 016	-9 481 3 091	-9 807 3 117	-10 903 3 154	-11 915 3 149	-12 476 3 132	-12 937 3 141	-13 366 3 161	-13 929 3 209	-14 944 3 180	-15 169 3 074	-14 395 3 085	-14 613 3 108	Export
Final energy consumption Industry	809	882	996	1 022	975	923	942	933	928	955	970	947	946	974	988	996	989	944	947	937	950	940	930	956	950	Final energy consumption Industry
Transport Residential	884 314	966 348	1 074 379	1 0 6 5 3 8 6	1 089 399	1 099 399	1 138 396	1 136 389	1 167 393	1 200 408	1 225 411	1 220 425	1 256 429	1 289 439	1 298 438	1 320 439	1 322 432	1 322 429	1 338 428	1 356 437	1 388 433	1 386 440	1 292 457	1 250 466	1 271 476	Transport Residential
C ommerce & public services Others	146 54	174 61	211 67	211 68	236 74	255 93	261 93	261 97	265 91	278 90	282 91	291 90	292 92	296 93	297 96	306 94	312 94	339 98	323 104	321 110	326 112	320 94	311 84	299 113	306 105	C ommerce & public services Others
Coaland peat Primary energy supply	1 493	1 590	2 023	2 022	2 042	2 031	2 103	2 155	2 183	2 190	2 172	2 211	2 124	2 027	1 991	1 857	1 758	1 819	1 878	2 004	1 940	1 962	1 793	1 694	1 572	C oal and peat P rimary energy supply
P ro ductio n	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 3 2 3 1 A	9 782 5.3	10 272 2.6	11 075 1.5	11 95 1	12 501 3.5	12 224	12 257 2.8	12 32 3 6.0	12 596 4.9	12 335 8.0	11 468 3.9	11 416	Production
Import Export	-2 800	-3 698	-5 083	-5 233	-5 545	-5 668	-5 951	-6 322	-6 3 1 3	-6 651	-6 865	-7 078	-7 961	-7 706	-8 148	-9 072	-10 144	-10 609	-10 532	-10 235	-10 318	-10 611	-10 483	-9 847	-9 671	Import Export
Transformation sector Power generation	-1 391 -1 206	-1 535 -1 354	-1 868 -1 722	-1 922 -1 790	-1 955 -1 825	-1 919 -1 771	-2 007 -1 854	-2 042 -1 885	-2 078 -1 923	-2 097 -1 941	-2 074 -1 918	-2 121 -2 002	-2 126 -1 959	-2 037 -1 868	-1 999 -1 855	-1 865 -1 733	-1 760 -1 639	-1 819 -1 704	-1 880 -1 753	-1 850 -1 723	-1 770 -1 647	-1 721 -1 609	-1 633 -1 515	-1 584 -1 467	-1 512 -1 395	Transformation sector 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	93	Final energy consumption
Industry Transport	100 3.0	100 3.6	105 3.7	95 4.6	83 2.4	87 3.3	91 3.8	93 7.6	92 6.6	93 7.0	97 7.6	91 7.4	84 3.9	81 2.8	78 2.4	81	83	80	93	89	99	97	91	93	93	Industry Transport
Residential Commerce & public services	0.3 3.5	0.1 1.7	1.0	0.1 1.2	0.1 0.4	0.1 1.2	0.1 1.3	0.1 1.3	0.1 0.9	0.1	0.1 0.7	0.6	0.5	0.4	0.2	0.1	0.2	0.2	0.3	0.5	0.5	0.5	0.8	0.2	0.1	Residential Commerce & public services
Others																										Others
Coal and peat products Primary energy supply	- 32	- 20	-7.0	-3.8	-7.1	- 15	- 14	- 19	- 19	- 17	- 15	-5.8	- 11	- 14	- 22	- 26	-22	- 22	- 15	-7.5	-9.2	-5.6	- 11	- 10	-5.1	C oal and peat products Primary energy supply
P ro duction Import						1.5	0.4	0.6	1.4	1.2	0.2	0.2	0.4	1.5	1.0	1.1	2.2	3.5	6.0	5.0	6.4	12	11	8.6	12	Production Import
Export Transformation sector	- 16 123	- 11 116	-0.6 84	-0.5 76	-3.7 55	-7.1 97	-7.0 94	100	94	93	94	68	- 10 76	- 14 84	- 23 81	- 29 83	-23 78	- 25 76	- 20 72	- 13 69	- 16 68	- 18 61	- 22 65	- 19 65	- 17 59	Export Transformation sector
P ower 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	-43	-4.3	-1.1	-0.9	-0.7	-0.5	-0.2	-	0.				Power generation
Final energy consumption Industry	77 75	81 79	64 63	62 60	36 33	49 46	51 50	55 54	49 48	47 46	48 47	43 42	17 17	20 20	21 21	17 17	20 20	18 18	20 20	23 23	22 22	22 22	20 20	20 20	20 20	Final energy consumption Industry
Transport Residential	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																Transport Residential
C ommerce & public services	1.8	1.7	0.9	1.6	2.4	2.4	13	1.6	1.3	1.0	0.9	0.8														Commerce & public services
Others Crude oil & NGL																										Others Crude oil & NGL
Primary energy supply Production	1 385 1 215	1 477 1 188	1 53 1 1 42 0	1 412 1 466	1 508 1 380	1 581 1 347	1 420 1 195	1 422 1 075	1 348 972	1 381 1 085	1 343 999	1 277 1 026	1 3 3 6 1 0 6 9	1 439 1 025	1 368 961	1 319 840	1 255 804	1 082 757	939 735	890 641	922 609	936 722	911 875	730 785	570 807	P rimary energy supply P roduction
Import Export	427 - 245	737 - 434	934 - 811	971 - 985	1 007 - 896	972 - 737	808 - 616	895 - 552	838 -458	869 - 561	899 - 562	832 - 583	925 - 634	1 087 - 690	1 009 - 613	1 025 - 554	969 - 521	847 -533	682 - 489	697 - 450	767 - 458	745 - 518	631 - 595	492 - 564	359 - 593	Import Export
Transformation sector	-1 284	-1 453	-1 572	-1 514	-1 571	-1 574	-1 488	-1 427	-1 3 5 4	-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	- 552	Transformation sector
Petroleum refineries Petroleum products	-1 284	-1 453	-1 572	-1 514	-1 571	-1 574	-1 488	-1 427	-1 3 5 4	-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	- 552	Petroleum refineries Petroleum products
Primary energy supply Import	- 78 175	- 114 136	- 102 170	- 131 177	- 147 171	- 100 204	68 377	123 407	185 501	162 460	310 602	375 653	406 667	368 622	477 762	565 842	602 869	695 967	855 1 147	906 1 199	922 1 281	904 1 272	946 1 276	1 047 1 275	1 237 1 493	P rimary energy supply 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	- 159	E xport
Transformation sector Power generation	1 301 - 40	1 485 - 33	1 578 - 22	1 5 17 - 25	1 509 - 24	1 499 - 27	1 460 - 33	1 404 - 3 5	1 289 - 37	1 319 - 35	1 324 - 50	1 333 - 38	1 288 - 58	1 364 - 56	1 316 - 36	1 296 - 63	1 21 6 - 4 6	1 068 - 57	906 - 51	874 - 51	919 - 48	982 - 48	878 - 43	712 - 45	509 - 42	Transformation sector Power generation
Petroleum refineries	1 342 1 067	1 521 1 150	1 602 1 282	1 544 1 265	1 536 1 285	1 527 1 313	1 495 1 350	1 439 1 350	1 327 1 378	1 355 1 403	1 375 1 442	1 372 1 436	1 347 1 476	1 420 1 542	1 352 1 576	1 358 1 606	1 263 1 603	1 125 1 577	957 1 594	925 1 620	967 1 663	1 030 1 641	921 1 544	757 1 541	551 1 552	P etroleum refineries
Final energy consumption Industry	121	124	149	142	117	129	126	129	133	127	144	136	132	165	187	193	189	162	157	157	170	175	181	188	190	Final energy consumption Industry
Transport Residential	874 16	948 15	1 049 15	1 038 14	1 065 14	1 067 15	1 106 14	1 100 12	1 129 11	1 158 13	1 179 12	1 177 16	1 219 15	1 251 16	1 259 16	1 281 16	1 283 16	1 278 15	1 295 17	1 315 15	1 344 15	1 338 15	1 245 15	1 205 15	1 225 10	Transport Residential
C ommerce & public services Others	11 46	12 51	13 57	13 57	20 68	19 83	21 83	21 88	24 82	24 81	25 81	26 81	26 83	28 82	30 84	31 85	32 84	33 89	30 95	31 102	31 103	27 85	27 76	28 104	29 98	C ommerce & public services Others
Gas Primary energy supply	619	701	807	850	789	857	860	794	965	1 097	1 185	1 212	1 177	1 216	1 160	1 318	1 386	1 3 9 0	1 276	1 313	1 363	1 423	1 557	1 530	1 442	Gas Primary energy supply
P ro ductio n	718	1 047	1 195	1 2 1 9	1 270	1 240	1 247	1 313	1 5 1 0 44	1 602 196	1 669 185	1 750 218	1 8 6 2 1 9 0	1 995 199	1 911 174	2 261 209	2 321	2 436 187	2 894 204	3 696 186	4 23 7 168	4 940 182	5 329 162	5 140 187	5 453 137	Production
Import Export	- 98	- 346	- 388	- 369	- 372	- 383	- 387	- 518	- 589	- 702	- 670	- 756	- 876	- 979	- 925	-1 152	-1 140	-1 229	-1 822	-2 572	-3 042	-3 686	-3 905	-3 817	-4 173	Import Export
Transformation sector Power generation	- 163 - 145	- 162 - 149	- 182 - 170	- 197 - 185	- 333 - 321	- 219 - 204	- 235 - 219	- 238 - 226	-219 -216	- 305 - 302	- 337 - 334	- 385 - 385	- 409 - 409	- 422 - 422	- 464 - 463	- 469 - 466	- 481 - 478	- 501 - 498	- 503 - 503	- 503 - 503	- 515 - 515	- 511 - 511	- 529 - 529	- 471 - 471	- 468 - 468	Transformation sector Power generation
Final energy consumption	351	414	465	492	485	503	511	493	488	508	508	481	485	493	495	493	500	491	467	465	462	460	467	474	469	Final energy consumption
Industry Transport	238 0.4	272 7.9	300 13	322 14	319 14	335 15	343 14	321 15	313 16	331 17	327 17	299 13	299 13	302 12	301 12	295 13	294 12	280 13	271 15	263 16	261 17	256 19	258 19	266 18	259 18	Industry Transport
Residential Commerce & public services	81 31	95 39	107 45	110 46	113 38	113 40	114 40	116 40	120 39	121 39	123 40	127 42	130 44	133 46	136 46	139 46	143 49	146 51	140 40	145 40	141 41	142 41	150 39	149 40	148 43	Residential Commerce & public services
Others					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.8	1.3	1.2	1.2	1.0	1.0	1.2	1.1	1.1	1.1	Others
Power generation	555	622	756	807	819	794	822	822	838	875	875	893	909	913	903	897	891	905	923	928	939	949	953	954	975	E lectricity Power generation
Thermal Hydro	502 51	562 57	692 59	742 60	754 57	727 59	754 58	750 55	760 57	799 52	804 43	826 42	831 49	819 60	808 50	779 65	761 66	784 48	789 54	783 58	779 57	763 56	739 53	701 53	675 59	Thermal Hydro
Nuclear Others	2.7	2.7	4.4	5.8	7.2	8.4	9.3	17	21	24	28	24	30	34	44	53	64	72	80	87	103	130	161	200	241	Nudear Others
Final energy consumption	465	522	622	649	688	666	682	681	693	726	729	755	763	770	761	761	755	768	774	767	774	779	780	779	795	Final energy consumption
Industry Transport	213 6.5	234 7.1	277 8.4	304 8.7	316 7.8	260 12	263 13	267 12	272 13	284 14	282 15	295 15	303 13	299 14	293 15	292 16	293 16	284	286 22	277 21	280 21	281 23	280 23	283 23	283	Industry Transport
Residential Commerce & public services	139 98	152 119	176 150	179 148	185 174	192 192	200 196	197 196	200 198	207 212	209 214	216 220	218 220	225 221	221 219	218 227	209 228	203 253	208 250	213 248	212 253	218 250	227 243	236 229	249 232	Residential Commerce & public services
Others	8.5	9.4	10	10	6.0	10	10	8.6	9.0	9.2	9.1	8.3	8.9	10	12	8.0	8.9	8.5	0.8	7.1	7.6	7.8	7.3	7.5	6.4	Others

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	2022	
Population (million) *1	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	26.01	Population (million) *1
Gross domestic product *3																										Gross domestic product *3
Real term, billion USD (constant 2015)	631	709	873	891	927	956	996	1 027	1 0 5 5	1 095	1 1 3 4	1 156	1 181	1 209	1 2 5 6	1 2 8 9	1 322	1 351	1 387	1 4 1 9	1 460	1 492	1 491	1 5 2 4	1 586	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 0 5 4	1 081	1 109	1 133	1 164	1190	1 225	1 251	1 251	1 2 7 9	1 537	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	311	368	416	379	396	467	614	695	748	854	1 0 5 6	929	1 149	1 398	1 547	1 576	1 468	1 351	1 207	1 3 2 6	1 428	1 392	1 327	1 5 5 3	1 693	Nominal, billion USD (current)
GDP per capita *3																										GDP per capita *3
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	60 973	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	59 100	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	65 078	Nominal (current USD)
Nominal GDP & its components (billion of current AUD) *1																										Nominal GDP & its components (billion of current AUD)
Gross domestic product	405	496	662	707	756	803	864	925	999	1 088	1 1 7 9	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	2 333	Gross domestic product
Household 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 0 5 4	1 136	Household 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	514	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	537	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	12.9	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	593	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	460	Imports of goods and services
Real GDP & its components (billion of 2019 AUD) 11																										Real GDP & its components (billion of 2019 AUD) 11
Gross Domestic Product	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	1715	1 759	1 804	1 843	1 894	1 937	1 993	2 036	2 035	2 080	2 333	Gross Domestic Product
Household 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 0 5 4	1 136	Household 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	514	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	537	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	12.9	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	593	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	460	Imports of goods and services
Sectoral shares of Real GDP (%) *1																										Sectoral shares of Real GDP (%) *1
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	2.7	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	27	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	63	Services, etc.
Industrial production index (2010=100) *2	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	113.7	Industrial production index (2010=100) *2
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	412.7	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.A	208.5	196.3	228.8	235 <i>A</i>	221.6	211.8	261.2	309.2	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Trade balance	0.5	-4.2	-4.9	1.7	-5.6	-15.7	-18.6	-14.3	-12.1	-21.1	-7.8	-74	11.4	23.0	-8.3	7.3	2.0	-19.0	-5.8	10.5	20.8	47.6	39.8	87.0	111.7	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	14.6	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	-0.4	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	1.44	Foreign exchange rate (AUD/USD) 11
PPP conversion factor, GDP (AUD/USD) *1	1.36	1.31	1.31	1.33	134	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	1.37	PPP conversion factor, GDP (AUD/USD) *1
Price Indices																										Price Indices
GDP Deflator (2021=100) *3	47.0	51.2	55.6	58.1	59.8	61.6	63.5	66.0	69.3	72.8	76.2	0.08	80.9	85.9	87.5	87.3	88.6	88.1	87.5	90.8	92.5	95.6	97.3	100.0	100.0	GDP Deflator (2021=100) *3
Producer Price Index (2010=100) *2	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	112.9	112.9	Producer Price Index (2010=100) *2
Consumer Price Index (2010=100) ²	59.8	67.6	74.4	77.7	80.0	82.2	84.1	86.3	89.4	91.5	95.5	972	100.0	103.3	105.1	107.7	110.4	112.0	113.5	115.7	117.9	119.8	120.8	124.3	132.5	Consumer Price Index (2010=100) *2
Growth rate (%) ⁺³																										Growth rate (%) *3
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	4.3	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	1.3	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	-100.0	0.0	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	6.6	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 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	2022
Currency exchange rate	AUD / US Dollar	1.09	0.97	0.97	1.04	1.11	1.33	1,35	1.30	1.34	1.44	1.45	1.33	1.44
Coal and Coal Products	7 00 001141	1.03	0.57	0.57	1.04	1.11	1,55	1.55	1.50	1,54	1,44	1.45	1.55	1.44
Coking Coal														
Anthracite														
Other bituminous coal														-
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG	AUD/L	0.59	0.70	0.72	0.72	0.79	0.59	0.61	0.72	0.79	0.73	0.72	0.84	0.98
Naphtha														
Motor Gasoline														
Regular	AUD/L	1.53	1.43	1.43	1.45	1.47	1.28	1.17	1.29	1.43	1.42	1.24	1.49	1.84
Premium														
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene														
Gas/Diesel Oil	AUD/L	1.28	1.48	1.50	1.52	1.55	1.29	1.18	1.30	1.50	1.47	1.25	1.42	2.05
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

2022

										Petajoules												
						Petrole	eum products			, I												
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jetfuel	Gas/ diesel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity heat		Total	Total renewables	
Production			203							360										563		Production
Import	28		307	25	21	1.7			3.1											361		Import
Export			-133	-357			-121	-25	-136	-231										-721		Export
International marine bunkers																						International marine bunkers
International aviation bunkers				-1.6		-1.6														-1.6		International aviation bunkers
Stock changes			-1.1							-0.1										-1.3		Stock changes
Total primary energy supply	28		376	- 333	- 53	-0.7	- 121	 - 25	- 133	130										201		Total primary energy supply
Transfers			24	- 23	- 21				-2.5											0.7		Transfers
Total transformation sector	-6.5		- 401	378	84	2.1	130	26	135	- 65									20	- 74		Total transformation sector
Main activity producers				-0.5			-0.5			- 47									14	- 33		Main activity producers
Autoproducers	-6.5									-5.5									5.7	-6.2		Autoproducers
Gas processing				0.8				8.0		6.2										6.9		Gas processing
Petroleum refineries			- 412	378	84	2.1	131	25	135											- 34		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation			11							- 19										-7.8		Other transformation
Losses & own use	- 22									- 35									-7.9	- 65		Losses & own use
Discrepancy	0.2		1.0	2.0	1.9	-1.2	0.7		0.7	- 29									-0.3	- 26		Discrepancy
Total final consumption				23	12	0.1	10	0.7	0.3	0.7									12	36		Total final consumption
Total final energy consumption				23	12	0.1	10	0.7	0.1	0.7									12	36		Total final energy consumption
Industry sector				5.5			5.3		0.1										0.6	6.1		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																			0.1	0.1		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				5.5			5.3	 	0.1										0.5	6.0		Non-specified industry
Transport sector				17			4.9													17		Transport sector
Domestic air transport				0.1		0.1														0.1		Domestic air transport
Road				17	12		4.9													17		Road
Rail																						Rail
Inland waterways																						Inland waterways
Non-specified transport								 														Non-specified transport
Other sector				0.7				0.7		0.7									11	13		Other sector
Residential				0.7				0.7		0.7									5.1	6.5		Residential
Commerce and public services																			6.4	6.4		Commerce and public services
Agriculture																						Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy				0.2					0.2											0.2		Non-energy
									Elect	ricity and heat	output											
Electricity generated (GWh)	1 208			46						4 344				5	5					5 602	5	Electricity generated (GWh)
Electricity plants				46						2 492				5	5					2 542	5	Electricity plants
CHP plants	1 208									1 852										3 060		CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Energy balance table of Brunei Darussalam

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											Petajoules	,										
		0.1	0 1 7			Petrol	um products										Others		FI			
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
roduction			236							p	378									614		Production
nport	29		310	0.3						0.3										339		Import
port			- 186	- 325		-3.4	- 102		- 29	- 136	- 270									- 781		Export
ernational marine bunkers			100	020		0.4	102		23	100	210											International marine bunkers
ernational aviation bunkers				-0.8		-0.8														-0.8		International aviation bunkers
			1.0	0.5			0.3			-0.1	0.9									0.3		Stock changes
ock changes	29		-1.0 359	- 325					- 29	- 136	109									172	\$	
tal primary energy supply	29					-4.2	- 101		- 29		109											Total primary energy supply
nsfers			23	- 22						- 22										1.1		Transfers
tal transformation sector	-6.7		- 384	365		4.0			30	155	- 64								21			Total transformation sector
Main activity producers				-0.4			-0.4				- 51								15		:	Main activity producers
utoproducers	-6.7										-5.5								5.9			Autoproducers
as processing				8.0					0.8		12									13		Gas processing
etroleum refineries			- 395	365	67	4.0	110		29	155										- 30		Petroleum refineries
oal transformation																						Coal transformation
ther transformation			11								- 20									-8.3		Other transformation
ses & own use	- 22										- 36								-8.0			Losses & own use
crepancy	-0.5		2.4	4.1	-0.4	0.2	1.6		-0.2	2.9	-8.8								0.4			Discrepancy
al final consumption				22			9.9		0.8	0.4	0.8								13			Total final consumption
al final energy consumption				22			9.9		0.8	0.2	0.8								13		1	Total final energy consumption
0, 1				5.3			5.1		0.0	0.2	0.0								0.6			
dustry sector				5.3			5.1			0.2									0.0	5.9		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																			0.1	0.1		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobac
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
										0.0									0.5			
Non-specified industry				5.3			5.1			0.2									0.5			Non-specified industry
ansport 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
Non-specified transport																						Non-specified transport
ther sector				0.8					0.8		0.8								12	14		Other sector
Residential				0.8					0.8		0.8								5.1			Residential
Commerce and public services																			7.2			Commerce and public servi
Agriculture																				7.2		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
•				0.0						0.0										0.0		
energy				0.2						0.2										0.2		Non-energy
Lich and COM	1 2 2 2 2			2.5						Electi	ricity and heat									. 700		Florida - 17042
tricity generated (GWh)	1 242			36							4 417				4					5 700		Electricity generated (GWh)
ectricity plants				36							2 711				4	1				2 752		Electricity plants
HP plants	1 242										1 706									2 948		CHP plants
t generated (PJ)																						Heat generated (PJ)
eat plants																						Heat plants
HP plants																						CHP plants

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

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

Major energy indicators of Brunei Darussalam

Tempore 1 19 19 19 19 19 19 19 19 19 19 19 19 1		1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008		tajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Tamonic Manie Mani	otal																										Total
Segretary 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Primary energy supply																										Primary energy supply
Section Control Cont																											
March 19						- 772																					
See 1	inal energy consumption	16	23	24	25	26	25	27	28	28	30	31	32	34	36	38	37	38	38	36	38	39	38	37	36	36	Final energy consumption
Same Same Same Same Same Same Same Same																											
Semental Control of the Control of t																											
The content of the																											
Part																									-		
Telegram Part	aland peat																										
Total Continue of the Continue	Primary energy supply																						7.7	27	29	28	P rimary energy supply
Part																							7.7	27	29	28	
Part																							7.7	21	23	20	
Property																							-3.1	-6.5	-6.7	-6.5	
Part																											
Marging Marg																											
Process Proc																											
Commentation contains are contained in the contained in the contains are contained in the contains are contained in the contain	Transport																										Transport
Other Control And Service And																											
Content																											
Part																											
Progress	Primary energy supply																										P rimary energy supply
Second																											
Tathonic stock Seals Proper protein Service Se																											
From the control of t	Transformation sector																										Transformation sector
Midely Register of Commonwork Part Register of Commonwork	-																										_
Tampoon Contents 2 September Septe																											
Standard Sta																											
Other Color Colo																											
The Market Marke	C ommerce & public services																										Commerce & public se
The proper growing party which proper grows party which proper grows party party which proper grows party pa																											
Production: 190 99 451 454 610 611 612 613 614 613 613 614 615		47	13	28	28	30	31	22	23	33	35	37	30	27	16	69	15	4.6	8.5	23	3.0	2.5	66	335	359	376	
Import 1.54 1.57 1.57 1.58 1.59 1.59 1.59 1.59 1.59 1.59 1.59 1.59																											
Treatment product prod			0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.7	0.6	0.5	0.6	0.5	0.3	0.4	0.3	0.4	0.2	0.1	0.4	66	281	310	307	
Protect principality of the protect principality of the protect protec	Export	- 334	- 375	- 428	- 424	- 442	- 447	- 438	- 462	-465	- 404	- 393	- 338	- 347	- 334	- 345	- 286	- 271	-276	- 270	- 250	- 237	- 271	- 192	- 186	- 133	Export
Transported production of the	Transformation sector																										
From yrenary yearby wearby wea		- 14	- 17	- 24	- 24	- 25	- 26	- 26	-26	- 29	- 29	- 31	- 27	- 25	- 24	- 18	- 20	-16	- 18	- 11	- 13	- 16	- 85	- 380	- 395	- 412	
import 1 0.6 1.0 0.6 0.8 1.0 0.6 0.8 1.0 0.7 0.6 1.8 0.4 1.5 1.9 0.7 0.5 1.0 0.8 1.5 0.4 1.5 1.9 0.7 0.5 1.0 1.5 1.2 1.6 1.3 1.6 1.9 1.6 1.3 1.6 1.9 1.6 2.5 1.8 0.3 2.5 1.5 1.0 1.0 1.5 1.2 1.0 1.5 1.2 1.0 1.5 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5		-1.2	-2.1	-2.1	-2.3	-2.5	-2.9	-2.9	-1.7	-3.3	-1.8	-1.9		0.5	4.3	11	8.1	13	9.5	12	16	12	- 27	- 320	- 325	- 333	
Treatment measurement of the contract of the c		0.6	1.0		8.0	1.0	0.7	0.6		0.4		1.9	3.7										25				
Power generation -0.1 -0.2 -0.2 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3	E xport	-0.2													-1.1	-0.6	-0.4	-0.6	-0.4				- 37	- 319	- 325	- 357	Export
Patholium references 13 19 21 21 21 22 23 22 22 24 25 25 23 23 21 16 18 14 16 11 10 14 99 373 365 373	Transformation sector																										Transformation sector
Find Letting processing from 10 15 14 14 15 16 16 16 17 18 19 20 20 20 22 24 26 25 25 25 25 25 25 26 26 25 25 24 26 25 25 25 25 26 26 25 25 24 25 25 25 25 26 26 25 25 25 25 25 25 25 25 25 25 25 25 25																											
Industry 1.7	Petroleum refineries																										P etroleum refineries
Transport	Final energy consumption																										Final energy consumption
Residential of the comments pulse services of the comments of pulse servic																											-
Others Triangport Residerial Commerce A pulse commerce																											
The commerce is a series of the commerce in the commerce is a series of the commerce in the commerce is a series of the commerce in the commerce is a series of the commerce in the commerce in the commerce is a series of the commerce in the commerce is a series of the commerce in the commerce is a series of the commerce in the commerce is a series of the commerce in the commerce in the commerce is a series of the commerce in the commerce is a series of the commerce in the commerce in the commerce is a series of the commerce in the commerce in the commerce is a series of the commerce in the commerce i																											C ommerce & public se
Primary pengly 45 95 101 97 83 93 99 98 100 96 93 91 100 137 133 105 127 132 137 168 163 140 111 109 130 Primary energy supply 45 95 070 409 413 445 445 439 442 439 4412 443 462 449 453 426 445 419 463 462 415 378 378 379 100 100 100 100 100 101 11 11 11 11 11																	0.7	1.2			1.0	1.3		0.7			
Production 316 390 407 409 413 446 443 433 439 412 443 462 449 435 426 445 419 463 446 427 415 378 360 production 1	ns Deimonous	AE	QE.	101	07	02	0.2	00	0.0	100	06	02	0.1	100	127	122	105	127	122	127	160	162	140	111	100	120	
Import Export Fayort F																											
Transformation sector -20 -35 -40 -41 -45 -46 -48 -47 -46 -45 -45 -48 -51 -84 -91 -56 -73 -69 -85 -106 -119 -106 -69 -64 -65 Transformation sector -20 -35 -40 -41 -45 -46 -48 -47 -46 -45 -45 -48 -51 -49 -51 -59 -51 -52 -50 -52 -50 -52 -54 -53 -55 -57 -52 -57 -52 -50 -52 -54 -53 -55 -57 -52 -50 -52 -54 -53 -55 -57 -52 -50 -52 -54 -53 -55 -57 -52 -50 -52 -54 -53 -55 -57 -52 -57 -52 -50 -52 -54 -53 -55 -57 -52 -57 -52 -50 -52 -54 -53 -55 -57 -52 -57 -52 -57 -52 -50 -52 -54 -53 -55 -57 -52 -57 -52 -57 -52 -50 -52 -54 -53 -55 -57 -52 -57 -52 -57 -52 -50 -52 -54 -53 -55 -57 -52 -52 -52 -52 -52																											
Power generation -20 -35 -40 -41 -45 -46 -48 -47 -46 -45 -45 -45 -45 -49 -51 -49 -51 -49 -51 -52 -50 -52 -54 -53 -55 -57 -52 Power generation industry Transport Transport Tran		- 271	- 295	- 306	- 312	- 330	- 353	- 343	- 334	-358	- 347	- 346	- 321	- 343	- 325	- 316	- 329	- 300	-309	- 284	- 295	- 281	- 286	- 306	- 270	- 231	
Power generation -20 -35 -40 -41 -45 -46 -48 -47 -46 -45 -45 -45 -45 -49 -51 -49 -51 -49 -51 -52 -50 -52 -54 -53 -55 -57 -52 Power generation industry Transport Transport Tran	Transformation sector			- 40	- 41	- 45		- 48		- 46	- 45	- 45		- 51	- 84	- 91	- 56	-73			- 106	- 119				- 65	Transformation sector
Industry Transport Residential 13 14 1.1 13 12 1.1 1.0 1.0 1.0 1.1 1.1 1.1 1.0 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9				- 40	- 41	- 45	- 46	- 48	-47	- 46	- 45	- 45	- 48		- 49							- 54				- 52	
Industry Transport Residential Commerce & public services Others The commerce of the commerce	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	8.0	0.7	0.6	8.0	0.9	8.0	8.0	8.0	0.7	Final energy consumption
Residential 13 1.4 1.1 1.3 1.2 1.1 1.0 1.0 1.0 1.1 1.1 1.1 1.0 1.0 1.1 1.1	Industry																										Industry
Commerce & public services Others Others Commerce & public services Commerce & public servi		12	1.4	11	1 2	12	11	1.0	1.0	11	11	11	1.0	11	11	1.0	0.0	0.8	0.7	0.6	0.8	0.0	0.8	0.8	0.8	0.7	
Others Control Contro		13	1.4	1.1	13	14	1.1	1.0	1.0	1.1	1.1	1.1	1.0	1.1	1.1	110	0.5	0.0	0.7	0.0	0.0	0.5	0.0	0.0	0.0	0.7	Residential Commerce & public se
Power generation 4.7 8.7 11 12 12 13 13 13 13 14 14 14 15 15 16 16 16 17 17 15 15 18 21 21 20 Power generation Thermal 4.7 8.7 11 12 12 13 13 13 13 14 14 14 15 15 15 16 16 16 17 17 17 15 15 18 21 21 20 Power generation Thermal Hydro Nuclear Others Final energy consumption 4.2 6.8 8.9 9.1 9.4 8.5 10 10 9.1 10 10 10 11 11 11 11 12 12 12 11 12 12 13 12 13 12 Final energy consumption Others Final energy consumption 0.9 1.0 1.0 1.1 0.8 0.8 0.8 0.8 0.7 0.7 0.7 0.8 0.9 0.8 0.9 0.8 0.7 0.7 0.7 0.6 0.6 0.6 0.7 0.8 0.6 0.6 0.6 0.6 0.7 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.7 0.7 0.7 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.7 0.7 0.7 0.8 0.9 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.8 0.9 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9																											
Thermal Hydro 4.7 8.7 11 12 12 13 13 13 13 14 14 14 15 15 16 16 16 17 17 15 15 18 21 21 20 Thermal Hydro Nuclear Others	dricity																										Electricity
Hydro Nuclear Obters Final energy consumption	Power generation																									20	
Nuclear Others Final energy consumption		4.7	8.7	11	12	12	13	13	13	13	14	14	14	15	15	16	16	16	17	17	15	15	18	21	21	20	
Others Final energy consumption 42 68 8.9 9.1 9.4 8.5 10 10 9.1 10 10 11 11 11 11 12 12 12 11 12 12 12 13 12 13 12 13 12 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15																											
Industry 0.9 1.0 1.0 1.0 1.1 0.8 0.8 0.8 0.7 0.7 0.8 0.9 0.8 0.9 0.8 0.7 0.7 0.6 0.6 0.6 0.7 0.8 0.6 0.6 0.6 0.6 0.7 0.8 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6																											
Industry 0.9 1.0 1.0 1.0 1.1 0.8 0.8 0.8 0.7 0.7 0.8 0.9 0.8 0.9 0.8 0.7 0.7 0.6 0.6 0.6 0.7 0.8 0.6 0.6 0.6 0.6 0.7 0.8 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Final energy consumption	4.2	6.8	8.9	9.1	9.4	8.5	10	10	9.1	10	10	10	11	11	11	11	12	12	12	11	12	12	12	13	12	Final energy consumption
Transport Residential 2.4 2.6 2.9 3.0 3.0 3.1 3.3 4.1 3.8 4.1 4.3 4.6 4.8 5.0 4.8 4.8 4.8 4.9 5.0 4.6 4.7 4.8 4.9 5.1 5.1 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 5.0 5.1 5.2 5.3 5.4 6.5 6.6 6.2 6.1 6.4 6.7 7.0 7.2 6.4 Commerce & public																											
Commerce & public services 1.0 3.1 4.9 5.1 5.3 4.6 5.7 4.6 4.6 4.9 5.0 5.0 5.1 5.2 5.3 5.4 6.5 6.6 6.2 6.1 6.4 6.7 7.0 7.2 6.4 Commerce & public	Transport																										Transport
		1.0	5.1	4.9	5.1	5.3	4.6	5./	4.6	4.6	4.9	5.0	5.0	5.1	52	5.3	5.4	6.5	6,6	6.2	6.1	6.4	6./	7.0	7.2	6.4	Commerce & public ser

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	2022	
Population (million) *1	0.262	0.299	0.334	0.341	0.347	0.354	0.360	0.367	0.373	0.379	0.385	0.390	0.396	0.402	0.407	0.412	0.417	0.421	0.426	0.430	0.434	0.438	0.442	0.445	0.449	Population (million) *1
40																										40
Gross domestic product 13 Real term, billion USD (constant 2015)	9.1	10.6	11.3	11.7	12.1	12.5	12.5	12.6	13.1	13.1	12.9	12.7	13.0	13.5	13.6	13.3	13.0	12.9	12.6	12.8	12.8	13.3	13.4	13.2	13.0	Gross domestic product 13 Real term, billion USD (constant 2015)
	18.4	21.5	23.0	23.6	24.5	25.3	25.4	25.5	26.6	26.6	26.1	25.7	26.3	27.3	27.6	27.0	26.3	26.2	25.6	25.9	25.9	26.9	27.2	26.8	34.8	GDP, billion USD (PPP, constant 2017)
GDP, billion USD (PPP, constant 2017) Nominal, billion USD (current)	3.5	47	6.0	5.6	5.8	6.6	7.9	9.5	11.5	12.2	14.4	10.7	13.7	18.5	19.0	18.1	17.1	12.9	11.4	12.1	13.6	13.5	12.0	14.0	16.7	Nominal, billion USD (current)
	3.5	7.7	0.0	3.0	3.0	0.0	1.5	5.5	11.5	12.2	144	10.7	13.7	10.5	13.0	10.1	17.1	12.5		12.1	13.0	13.3	12.0	14.0	10.7	
GDP per capita *3	24722	25.516	22.006	24 210	24.057	25 202	24.751	24 200	25 212	24715	22.526	22.450	22 011	33 577	22.456	22.242	31 156	20.601	20.601	20.606	20.420	20.212	20.402	20.672	20.054	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		33 456	32 342	51 150	30 681	29 601	29 696	29 438	30 313	30 402	29 673	28 954	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	70 359 13 441	71 966	68 866 17 972	69 339 16 437	70 632 16 817	71 332	70 415	69 482	71 353	70 342	67 934	65 753	66 484 34 610	68 038	67 793	65 535	63 131	62 170	59 981	60 173	59 650	61 424 30 748	61 604 27 179	60 127	77 441 37 152	GDP, PPP (constant 2017 USD)
Nominal (current USD)	13 441	15 828	17 972	10 437	10 817	18 521	21 839	25 991	30 768	32 337	37 428	27 498	34 010	46 139	46 844	43 950	41 036	30 681	26 762	28 187	31 241	30 /48	2/ 1/9	31 449	37 132	Nominal (current USD)
Nominal GDP & its components (billion of current BND) *1																										Nominal GDP & its components (billion 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	23	Gross domestic product
Household 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	5.3	Household 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	4.6	General government final consumption expenditure
Gross fixed capital formation	12	2.5	1.3	1.5	2.2	1.7	1.8	1.8	1.9	2.4	2.8	2.7	4.4	6.0	7.8	8.9	5.9	6.2	5.4	5.8	7.5	7.1	6.7	5.9	5.9	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	20	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	14	Imports of goods and services
Real GDP & its components (billion of 2019 BND) 11																										Real GDP & its components (billion of 2019 BND) 11
Gross Domestic Product	13	15	16	17	17	18	18	18	19	19	19	18	19	19	20	19	19	19	18	18	18	19	19	19	19	Gross Domestic Product
Household 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	5.3	Household 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	4.6	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	5.8	Gross fixed capital formation
Stock change			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	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	15	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	12	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	8.0	0.9	0.8	0.8	0.8	0.8	0.9	1.0	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	60.5	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	40.4	1
Industrial production index (2010=100) *2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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.	2.2	2.4	3.9	3.6	3.7	4.4	5.1	6.2	7.6	7.7	10.3	72	8.9	12.5	13.0	11.4	10.5	6.4	4.9	5.6	6.6	7.0	6.6	11.1	14.2	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	42	5.1	5.3	8.6	9.2	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Trade balance	N.A.	N.A.	N.A.	2.6	2.2	3.2	3.7	4.8	6.0	5.7	7.8	4.9	6.2	8.6	8.8	6.9	7.4	2.9	2.2	2.4	2.4	2.2	1.4	2.7	5.2	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	3.3	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	12	-2.4	-4.9	0.5	0.9	1.3	0.3	1.7	0.9	I
	1.81	1,42	1.72	1.79	1.79	1.74	1,69	1.66	1.59	1.51	1.42	1.45	136	1.26	1.25	1.25	1.27	137	1.38	1,38	1.35	1.36	138	1.34	1.38	
Foreign exchange rate (BND/USD)																										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	0.62	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	123.0	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	189.6	N.A.	N.A.	186.9	201.7	221.7	221.7	221.7	221.7	221.7	#
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 <i>A</i>	99.4	99.0	100.9	102.7	106.5	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	-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	12	1.2	1.1	1.1	1.0	0.9	0.9	0.8	8.0	8.0	Population
Price																										Price
Producer prices	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	7.9	9.9	0.0	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	3.7	Consumer prices

Source

*1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

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

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	BND / US Dollar				1.25	1.27	1.41	1.40	1.38	1.38	1.36	1.38	1.34	1.38
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	60.45	43.33	72.07	107.69
	O3D/barrer				113.05	104.44	33.00	44.03	33,95	/5.1/	68.45	43.33	12.01	107.09
Natural Gas Liquids														
Ethane	DVID/e-1:1					400-	40.0-	****	40.0-	40.0-	***	****	400-	
LPG Cylinder 12 kg	BND/cylinder				10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Cylinder 44 kg	BND/cylinder				34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56	34.56
Naphtha														
Motor Gasoline RON97														
RON97	BND/L				0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
RON92	BND/L					0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
RON85	BND/L				0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
SVP Gasoline	BND/L											0.79	0.79	0.91
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel					0.98	0.95								
Other Kerosene					0.20	0.20			0.18					
Gas/Diesel Oil	BND/L				0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
SVP Diesel	BND/L											0.82	0.81	0.90
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	14.33
Compressed Natural Gas	COD/IIIIIIOII Did				10.36	10.01	9,03	1.21	0,20	10.43	5.14	0.00	9.00	14,55
Electricity														
Industrial	D11D 41 /4													
Commercial - The first 10 units	BND/kVA				0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Next 100 units	BND/kVA				0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Next 100 units	BND/kVA				0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Remaining units	BND/kVA				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Minimum charge	BND				0.20	0.20	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Residential - 1-600 kWh	BND/kWh				0.25		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
601-2000 kWh	BND/kWh				0.15		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
2001-4000 kWh	BND/kWh				0.10		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4001 kWh above	BND/kWh				0.05		0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Others (Government)	BND/kWh				0.10		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Other Energy Products														

Canada

Energy balance table of Canada

2022

Part 15 15 15 15 15 15 15 1											Petajoules											
Performer 19	lectricity and Total		Electricity and		Other											Petroleu			Crude oil	Coal		
See		Total		Others ²		Wind	Solar	othermal	Nuclear Geo	Hydro	Gas		LPG	Fuel oil		Jet fuel	Gasoline	Total			Coal	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 464 2 109 Production	23 464	1	11	523	133	22		952	1 431	7 201					-	-		12 115	-	1 075	oduction
windood and sale shore window of the property	51 3 080 69 Import	3 080	51		69						901	106		15	40	83	220	465	1 4 2 0	32	143	port
International position of the section of the sectio	- 235 -13 991 - 83 Export	-13 991	- 235		- 83						-3 021	- 332		- 45	- 329	- 15	- 238	- 960	-8 768	-6.6	- 917	port
Schanges 37 26 8 7 14 4 2 13 15 27 8 8 4 4 6 7 39 14 4 2 13 15 27 8 4 4 6 7 39 15 9 9 9 9 14 9 15 1 9 1 24 2 7 9 14 14 14 15 15 1 9 14 14 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-8.2 International marine bunk	-8.2												-6.7	-1.5			-8.2				rnational marine bunkers
Part	- 159 International aviation bunk	- 159														- 159	-0.1	- 159				ernational aviation bunkers
In serious series	56 -1.3 Stock changes	56			-1.3						59	-6.7	0.4	-2.1	1.5	1.3	4.2	-1.4	9.7	-2.6	-7.7	ock changes
Second 1.52 33 455 436 1288 168 1390 234 68 1271 -980 -1411 -982 -21 -133 -90 42 238 -1618 -1619 -	- 185 12 442 2 094 Total primary energy sup	12 442	1 - 185	11	508	133	22		952	1 431	5 140	- 232	0.4	-40	- 290	- 89	- 13	- 663	4 777	23	293	tal primary energy supply
The restrict productors of the restrict producto	71 Transfers	71										- 104	278	- 75	98	-2.1		195	- 124			ansfers
Allegorians -1 -1 -1 -1 -1 -1 -1 -	2 368 -1 618 -1 679 Total transformation sect	-1 618	2 2 368	-4.2	- 95	- 133	- 21		- 952	-1 431	- 898	1 221	68	204	1 390	196	1 288	4 369	-4 535	33	- 321	tal transformation sector
Lulproplications 1, 2	2 170 -1 122 -1 532 Main activity producers	-1 122	2 2 170	-4.2	- 33	- 130	- 14		- 952	-1 354	- 507	- 20		- 21	-8.6		-1.1	- 51			- 246	Main activity producers
Samprocsong 4.688 4.73 1.293 1.99 1.96 1.404 2.77 6.8 1.267			198		- 62	-2.3	-6.2			- 77		- 11		-2.5	-5.2			- 19		-1.2		Autoproducers
Particular principation 1,600 4,501 1,900 1,	Gas processing																					-
Confusion 1-76 34	- 235 Petroleum refineries	- 235										1 267	68	227	1 4 0 4	196	1 289	4 453	-4 688			Petroleum refineries
153 -14	: I	1																		34	- 75	Coal transformation
seek Aomuse		:									- 137	- 14						- 14	153			
Secrepancy 56 17 119 287 109 0.5 -27 4.8 -67 331 -235			- 258		-0 1								-4.3		- 97		-0 1					
New Part 1988 1988 1988 1988 1988 1988 1989 1975 42 718 1989														- 48		-0.5			- 118	17	56	
Part							14															_ · · ·
Industry sector			<u>_</u>																			
Mining and quarrying S							1.4									103						
Construction Cons		1	1	1.0	244												30				23	•
In and sate			00														11			0.5		
Chemicalle protochemical 18 18 12 05 01 140 140 10 222 232 10 Non-merital minerals 18 03 13 13 13 13 14 15 19 48 10 10 10 222 232 10 Non-merital minerals 19 19 48 17 18 19 48 17 18 18 19 18 18 18 18 18	i i i i i i i i i i i i i i i i i i i	:	20										5.2	0.0			- 11			40	6.5	
Non-metalis nemiarla 9.7 19 19 13 1 13 1 13 1 14 15 15 1 15 10 10 10 10 10 10 10 10 10 10 10 10 10														0.5						40	0.5	
Non-metalic minerals 9,7 19 19 48 17 19 48 17 17 17 17 17 17 17 1					4.0							0.1		0.5						0.2	0.4	
Transportation equipment Machinary 3												40		0.4	1.3					0.3		
Machinery Food beverages and tebacco Pulp, paper and printing Pood beverages and tebacco Pulp, paper and printing Pulp, paper and pulp paper and p				7.0	0.9							19		0.1				19			9.7	
Fool perianges and tobacco Pub, paper and printing Pub, paper an																						
Pulp, paper and prinning Pulp, paper and provided Pulp, which are provided provided Pulp, paper and provided Pulp, paper																						*
Wood and wood products Figure Fig																						•
Textiles and leather Nor-specified industry 36 26 5.3 0.9 3.1 117 32 186 Nor-specified industry 36 26 5.3 0.9 3.1 117 32 186 Nor-specified industry 36 26 3 186 Nor-specified industry 36 26 36 192 1291 619 11 2.1 181 181 181 181 182 183 183 183 183 183 183 183 183 183 183		1																				
Non-specified industry 36		1			57							0.3	1.3	8.0	4.6			7.0				•
Transport sector 2 164 1294 105 741 14 11 181	: I																					
Domestic air transport 104												3.1										
Road Rail 1921 1291 619 11 22.1 12.1 130 44 2031 103 Road Rail Rail 86 0.2 86 86 87 88 88 88 88 88 88 88 88 88 88 88 88	: I : I : I : I : I : I : I : I : I : I		30		103						181		11	14	741							Fransport sector
Rail Mand waterways		:														102		104				Domestic air transport
hland waterways 48 0.9 33 14	4.4 2 031 103 Road	2 031	4.4		103						2.1		11		619		1 291	1 921				Road
Non-specified transport S.4 0.3 2.7 2.3 179 26 210 Non-sector N																						Rail
Other sector 0.5 347 52 212 6.7 60 16 1199 1.4 73 1217 2838 74 Other sector Residential 58 40 16 2.4 606 72 645 1381 72 Residential 58 58 7.2 0.2 36 14 548 58 0.6 533 1139 0.6 Commerce and public services 0.5 233 52 165 6.5 9.2 0.2 45 0.6 0.6 533 1139 0.6 Commerce and public services 0.5 233 52 165 6.5 9.2 0.2 45 0.6 0.6 533 1139 0.6 Commerce and public services 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	48 Inland waterways	48												14	33		0.9	48				Inland waterways
Residential 58 40 16 2.4 606 72 645 1381 72 Residence and public services 57 7.2 0.2 3.6 14 548 0.6 0.6 533 1139 0.6 Common of the common of t			26								179				2.3	2.7	0.3	5.4				Non-specified transport
Commerce and public services	1 217 2 838 74 Other sector	2 838	1 217		73		1.4				1 199	16	60	6.7	212		52				0.5	Other sector
Agriculture 0.5 23 52 165 6.5 9.2 0.2 45 38 316 Agriculture Fishery Non-specified Non-specified Non-specified O.5 23 52 165 6.5 9.2 0.2 45 O.6 51 51 51 51 51 51 51 51 51 51 51 51 51		1 381	1		72							2.4	16		40			58				Residential
Agriculture 0.5 23 52 165 6.5 9.2 0.2 45 38 316 Agriculture Fishery Non-specified Non-	533 1 139 0.6 Commerce and public	1 139	533		0.6						548	14	36	0.2	7.2			57				Commerce and public services
Fishery Non-specified Security Generated (GWh) Security Generated (G												0.2	9.2		165		52	233			0.5	Agriculture
Non-specified 5.00	Fishery																					
n-energy 3.1 0.7 886 194 691 124 1013 Non-energy Electricity and heat output	i i i i i i i i i i i i i i i i i i i	2.2	0.8				1.4															
Electricity and heat output extricity generated (GWh) 26 098 153 5 367 1 492 1 356 1 850 82 524 397 616 87 239 5 737 36 853 9 060 553 651 200 449 266 Electricity plants 26 098 153 5 357 1 492 1 346 1 850 70 901 397 616 87 239 5 737 36 853 8 890 501 639 345 449 096 Electricity plants											124	691	194					886		0.7	3.1	<u> </u>
ectricity generated (GWh) 26 098 153 5 367 1 492 1 356 1 850 82 524 397 616 87 239 5 737 36 853 9 060 553 651 200 449 266 Electricity plants 26 098 153 5 357 1 492 1 346 1 850 70 901 397 616 87 239 5 737 36 853 8 890 501 639 345 449 096 Electricity										outout												*
Electricity plants 26 098 153 5 357 1 492 1 346 1 850 70 901 397 616 87 239 5 737 36 853 8 890 501 639 345 449 096 Electricity	651 200 449 266 Electricity generated (GW	651 200	2	550	0.060	36.952	5 727		87 220					1 256	1.402			5 267		152	26.000	etricity generated (CMh)
	, , ,																					
						30 633	3/3/		01 239	22/010		1 630			1 492					133	20 098	
	· ·													10				10				
											18											0 ()
			1	1	3																	

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

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

Energy balance table of Canada

											Petajoules	;										
						Petrolei	um products															
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear (Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	1 051		11 712			-					6 697	1 382	1 010		20	130	524	11		22 537	2 055	Production
Import	164	34	1 498	440	229	40	44	15		110	869						50		47	3 101	50	lm port
Export	- 796	-2.6	-8 590	-1 011	- 294	- 18	- 317	- 54		- 328	-2 818						- 79		- 217	-13 514	- 79	Export
International marine bunkers				-9.1			-2.3	-6.7												-9.1		International marine bunkers
International aviation bunkers				- 92		- 92														- 92		International aviation bunkers
Stock changes	19	-0.6	20	6.9	5.2		4.4	1.6	-0.2	-4.1	100						2.0			147	2.0	Stock changes
Total primary energy supply	438	31	4 640	- 665	- 60	- 69	- 270	- 44	-0.2	- 222	4 847	1 382	1 010		20	130	497	11	- 171	12 171	2 028	Total primary energy supply
Transfers			- 256	336		-3.0	89	-9.2	243	16										80		Transfers
Total transformation sector	- 388	35	-4 269	4 146	1 315	137	1 332	134	70	1 157	- 869	-1 382	-1 010		- 18	- 130	- 104	-4.2	2 344	-1 652	-1 634	Total transformation sector
Main activity producers	- 315			- 38	-1.0		-8.0	- 16		- 13	- 477	-1 304	-1 010		- 13	- 127	- 35	-4.2	2 149	-1 176	-1 479	Main activity producers
Autoproducers		-1.4	ļ	- 15			-5.1	-1.3		-8.2	- 250	- 78			-5.6	-2.2	- 69		195	- 226	- 155	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-4 429	4 213	1 317	137	1 345	152	70	1 193										- 215		Petroleum refineries
Coal transformation	- 73	36	i																	- 37		Coal transformation
Other transformation			160	- 15						- 15	- 142									2.5		Other transformation
Losses & own use				- 547	-0.6		- 92	-0.3	-3.0	- 451	-1786						-0.1		- 258	-2 591	-0.1	Losses & own use
Discrepancy	- 20	-5.8	- 115	226	105	11	- 16	- 36	- 72	235	- 105						9.9		1.0	-9.1	9.9	Discrepancy
Total final consumption	29	60)	3 496	1 359	76	1 042	45	238	735	2 088				1.5		403	6.8	1 916	7 999	404	Total final consumption
Total final energy consumption	27			2 635	1 359	76	1 042	45	76	37	1 955				1.5		403	6.8		7 002	404	Total final energy consumption
Industry sector	26			211	36		121	23	8.3	21	663						237	6.8		1 889	237	Industry sector
Mining and quarrying		7.7		57			40	14	2.8		46								57	168		Mining and quarrying
Construction				84	11		68	0.9	4.1		19								-	102		Construction
Iron and steel	7.1	51		1.3			1.1	0.0		0.2	67								30	156	0.1	Iron and steel
Chemical & petrochemical				1.4			1.1	0.3		0.1	146								90	238		Chemical & petrochemical
Non-ferrous metals	9.4	0.4	L	1.2			1.2	0.0		•	36						0.9		228	275	0.9	Non-ferrous metals
Non-metallic minerals	9.7	0.5		18			1.2	0.2		17	42						0.8	6.8	19	95	0.8	Non-metallic minerals
Transportation equipment	0.7			10				0.2			14						0.0	0.0	15	29	0.0	Transportation equipment
Machinery											8.2								23	31		Machinery
Food, beverages and tobacco											75						0.5		38	114	0.5	Food, beverages and tobacco
Pulp, paper and printing				7.5			1.2	6.2			81						181		129	398	181	Pulp, paper and printing
Wood and wood products				6.8			4.5	0.6	1.4	0.3	19						53		27	106	53	Wood and wood products
Textiles and leather				0.0			4.3	0.0	1.4	0.3	2.3						55		1.9	4.3	55	Textiles and leather
				35	25		4.8	0.8		3.5	108								30	172		
Non-specified industry				2 081	1 271	76	709	15	11	3.3	157						89		29	2 356	89	Non-specified industry
Transport sector							709	15	- 11		157						09		29		09	Transport sector
Domestic air transport				75	1.9	73	500		44		0.0						00		4.5	75	20	Domestic air transport
Road				1 868	1 268		590		11		2.0						89		4.6	1 964	89	Road
Rail				86	0.2		86	45												86		Rail
Inland waterways				47	0.9	0.0	32	15			455								0.4	47		Inland waterways
Non-specified transport				4.9	0.3	2.8	1.9	7.0		40	155				4.5		77		24	184		Non-specified transport
Other sector	0.5			344	52		212	7.0	57	16	1 135				1.5		77		1 200	2 758	78	Other sector
Residential				55			38		15	2.0	580						76		635	1 346	76	Residential
Commerce and public services				53			5.9	0.2	34	13	514						0.6		526	1 093	0.6	Commerce and public services
Agriculture	0.5			236	52		168	6.9	8.8	0.3	42								38	316		Agriculture
Fishery																						Fishery
Non-specified									455	05-	455				1.5				0.8	2.2		Non-specified
Non-energy	2.6	3.0	i	860					162	698	133									996		Non-energy
-1	1 2.25										ricity and hea		00.505			25.25					, n= n=1	El
Electricity generated (GWh)	34 261	187		4 193			1 440	1 023		1 273	77 735		92 629		5 113	36 006		546		644 578	435 027	Electricity generated (GWh)
Electricity plants	34 261	187	,	4 183			1 440	1 013		1 273	67 200	383 852	92 629		5 113	36 006		494		633 811		Electricity plants
CHP plants				10				10			10 535						170	52		10 767		CHP plants
Heat generated (PJ)											17						4	2		23	4	Heat generated (PJ)
Heat plants																	3	1		5	3	Heat plants
CHP plants											17						1			18	1	CHP plants

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

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

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Major energy indicators of Canada

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
otal	8 857	9 804	10 562	10 407	10 422	10 994	11 186	11 293	11 486	11 499	11 264	10 828	10 898	11 085	11 091	11 254	11 53 1	11 484	11 999	12 495	12 663	12 784	11 918	12 171	12 442	Total
Primary energy supply Production	11 586	14 747	15 638	15 811	16 102	16 193	16 710	16 755	17 470	17 612	17 139	16 447	16 739	17 311	17 816	18 637	19 499	19 669	20 282	21 612	22 504	22 577	21 724	22 537	23 464	P rimary energy supply P roduction
Import	1 943	1 896	3 018	3 2 1 8	3 076	3 355	3 412	3 665	3 4 6 5	3 446	3 760	3 562	3 5 3 3	3 765	3 888	3 619	3 453	3 6 6 2	3 800	3 600	3 544	3 811	3 277	3 101	3 080	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	-13 509	-12 788	-13 514	-13 991	Export
Final energy consumption	6 005	6 522	6 762	6 5 2 7	6 911	7 108	7 098	7 029	6 8 3 0	7 065	6 979	6 697	6 7 6 4	6 992	6 901	7 107	7 21 6	7 1 0 8	7 114	7 361	7 597	7 521	6 850	7 002	7 261	Final energy consumpti
Industry	1 977	2 146	2 267	2 149	2 239	2 319	2 380	2 094	2 007	1 999	1 890	1 724	1 751	1 824	1 826	1 854	1 869	1 822	1 890	1 944	1 961	1 9 6 0	1 807	1 889	1 944	Industry
Transport	1 805	2 000	2 183	2 149	2 313	2 342	2 304	2 359	2 3 4 3	2 435	2 434	2 379	2 4 6 6	2 479	2 489	2 558	2 547	2 5 4 0	2 535	2 599	2 689	2 647	2 232	2 356	2 479	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 3 3 2	1 413	1 352	1 420	1 466	1 420	1 361	1 406	1 463	1 400	1 369	1 346	1 381	Residential
Commerce & public services	770 136	859 160	827 176	817 160	919 147	959 151	943 151	970 267	918 269	951 273	968 277	966 236	947 268	991 284	954 280	986 290	1 03 7 29 7	1 0 1 7 3 0 9	1 016 312	1 092 320	1 151 332	1 190 323	1 135 307	1 093 318	1 139 318	Commerce & public s
Others	130	100	1/0	160	147	131	131	201	209	2/3	211	230	200	204	200	290	291	309	312	320	332	323	307	310	310	Others
pal and peat Primary energy supply	1 024	1 051	1 322	1 291	1 252	1 238	1 189	1 23 6	1 2 3 5	1 241	1 114	907	941	855	800	791	822	745	705	714	566	486	373	438	293	C oal and peat Primary energy supply
P ro ductio n	1 588	1 710	1 44 1	1 4 6 3	1 364	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 1 6 3	1 024	1 051	1 075	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	143	Import
Export	- 893	- 978	- 799	- 738	- 669	- 718	- 645	- 703	-691	- 771	- 805	- 722	- 842	- 848	- 871	- 978	- 857	-764	- 760	- 774	- 801	- 887	- 801	- 796	- 917	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	- 436	- 388	- 321	Transformation sector
Powergeneration	- 836	- 869	-1 126	-1 106	-1 080	-1 067	- 990	- 977	-947	-1 042	- 943	- 787	- 799	- 739	- 664	- 654	- 632	-581	- 583	- 580	- 451	- 431	- 353	- 315	- 246	Power generation
Final energy consumption	43	45	55	51	49	50	53	59	67	62	61	53	60	58	56	49	47	49	40	44	37	35	27	27	25	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	26	25	Industry
Transport	2.0	2.2			10	10		1.0	3.3	1.3				0.0	0.5	0.5	0.5									Transport
Residential Commerce & public services	2.0 0.2	2.3	1.5	1.2 0.3	1.0	1.0	1.1	1.8	3.2	1.5	1.3	1.1	13	0.8	0.6	0.6	0.5	0.3	0.3	0.3						Residential Commerce & public s
Others	0.2			0.5							0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.5	0.5	Others
oal and peat products											313	313			313	313	3.3	313	3,3	-12	3.3			5.5	0.5	Coal and peat products
Primary energy supply	-8.1	11	5.1	15	4.6	4.3	9.0	24	30	30	38	12	26	17	16	15	33	29	28	40	32	31	36	31	23	P rimary energy supply
P ro ductio n																										Production
Import	9.3	22	17	17	9.4	4.9	7.2	35	37	34	50	18	30	24	23	19	34	33	34	33	30	36	35	34	32	Import
E xport	-5.3	-9.1	-8.2	-2.1	-3.9	-1.8	-3.6	-6.6	-2.2	-4.9	-1.0	-5.8	-2.0	-8.2	- 12	-0.8	-1.7	-2.1	-1.2	-0.1	-1.1	-1.1	-2.1	-2.6	-6.6	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	33	Transformation sector
Powergeneration	-0.5	-14	-3.3	-3.3	-3.6	-4.0	-5.1	-0.8	-0.7	-0.5	-0.4	-0.3	-0.3	-0.4	-0.3	-0.3	-0.3	-1.8	-1.8	-2.1	-1.6	-1.7	-1.6	-14	-1.2	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	70	66	59	59	57	Final energy consumption
Industry	77	88	85	77	74	75	82	85	85	79	76	64	68	79	76	61	62	58	63	65	70	66	59	59	57	Industry
Transport																										Transport
Residential Commerce & public services																										Residential Commerce & public se
Others																										Others
rude oil & NGL																										C rude oil & NGL
Primary energy supply	3 467	3 525	4 048	4 1 5 9	4 134	4 336	4 541	4 305	4 5 4 1	4 658	4 415	4 355	4 3 5 7	4 223	4 594	4 549	4 68 1	4 8 4 3	4 499	4 830	4 77 0	4 9 8 2	4 553	4 640	4 777	P rimary energy supply
P ro ductio n	3 942	4 750	5 377	5 4 5 2	5 714	6 038	6 251	5 985	6 6 5 2	6 811	6 704	6 662	6 9 9 9	7 441	8 010	8 547	9 20 6	9 475	9 446	10 413	11 188	11 598	11 091	11 712	12 115	Production
Import	1 136	1 276	1 965	1 9 5 5	1 873	1 916	1 975	2 05 6	1 9 0 3	1 918	1 910	1 88 1	1 7 7 3	1 673	1 920	1 863	1 879	2 159	2 173	1 898	1 827	1 891	1 749	1 498	1 420	Import
E xport	-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 3 5 0	-4 929	-5 364	-5 849	-6 345	-6 781	-7 149	-7 468	-8 212	-8 576	-8 214	-8 590	-8 768	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	-4 595	-4 089	-4 269	-4 535	Transformation sector
Petroleum refineries	-3 596	-3 525	-3 989	-4 094	-4 158	-4 322	-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 07 6	-4 742	-4 252	-4 429	-4 688	Petroleum refineries
etroleum products Primary energy supply	- 263	- 294	- 401	- 502	- 569	- 457	- 569	- 431	-456	- 567	- 410	- 433	- 405	- 314	- 619	- 690	- 676	-585	- 493	- 742	- 603	- 622	- 635	- 665	- 663	Petroleum products 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	657	413	440	465	Import
Export	- 496	- 516	- 624	- 806	- 867	- 885	- 922	- 914	-872	- 908	- 915	- 867	- 857	- 798	- 964	-1 042	- 947	-952	- 902	-1 013	- 929	-1 071	- 948	-1 011	- 960	Export
Transformation sector	3 469	3 522	3 93 1	3 988	4 148	4 250	4 324	4 179	4 141	4 241	4 095	3 960	4 0 6 7	3 868	3 926	3 846	3 637	3 7 1 6	3 778	3 942	3 806	4 4 6 0	4 003	4 146	4 369	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	- 53	- 70	Power generation
Petroleum refineries	3 628	3 607	4 032	4 145	4 280	4 444	4 522	4 327	4 2 6 6	4 370	4 197	4 07 0	4 155	3 941	3 999	3 928	3 718	3 8 0 4	3 859	4 020	3 885	4 5 4 4	4 078	4 213	4 453	Petroleum refineries
Final energy consumption	2 267	2 317	2 541	2 5 1 4	2 670	2 772	2 734	2 81 1	2 7 5 4	2 871	2 851	2 746	2 8 5 9	2 885	2 881	2 905	2 864	2 8 6 9	2 864	2 953	3 026	2 989	2 525	2 635	2 725	Final energy consumptio
Industry	284	241	270	276	245	258	267	219	190	196	185	177	180	194	203	199	194	201	210	234	228	242	202	211	213	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 2 9 9	2 294	2 298	2 337	2 297	2 288	2 277	2 345	2 420	2 3 8 0	1 985	2 081	2 164	Transport
Residential	195	144 52	136 56	125	121	127	111	131	123	135	124	119 58	114 59	112 68	100	87 67	82 68	80 66	77 62	71 58	70	67 59	59 53	55	58	Residential
Commerce & public services	31 84	52 106	117	63 104	112 92	133 94	130 95	92 212	78 215	79 221	70 222	58 179	207	68 216	71 209	215	68 224	66 234	62 237	58 246	55 253	59 242	53 227	53 236	233	Commerce & public se
Others	04	100	117	104	92	94	33	212	213	221	222	1/9	201	210	209	213	224	234	201	240	200	242	221	230	233	
Bas Primary energy supply	2 292	2 810	3 109	3 0 0 9	3 071	3 338	3 267	3 384	3 3 2 8	3 347	3 294	3 277	3 292	3 518	3 513	3 620	3 643	3 543	4 336	4 659	4 889	4 923	4 704	4 847	5 140	Gas Primary energy supply
P ro ductio n	3 709	5 453	6 212	6 3 7 6	6 420	6 329	6 315	6 45 9	6 486	6 347	6 099	5 663	5 541	5 543	5 458	5 457	5 690	5 792	6 457	6 696	6 910	6 647	6 488	6 697	7 201	Production
Import	22	23	56	134	226	333	373	328	332	435	539	715	784	1 087	1 092	934	768	693	786	892	819	916	837	869	901	Import
Export	-1 383	-2 710	-3 462	-3 708	-3 693	-3 489	-3 620	-3 659	-3 516	-3 716	-3 561	-3 294	-3 314	-3 218	-3 078	-2 895	-2 754	-2 749	-2 975	-3 005	-2 816	-2 693	-2 508	-2 818	-3 021	Export
Transformation sector	- 102	- 241	- 369	- 394	- 374	- 397	- 383	- 415	-488	- 496	- 508	- 532	- 598	- 658	- 716	- 691	- 724	-762	- 730	- 687	- 798	- 812	- 839	- 869	- 898	Transformation sector
Powergeneration	- 78	- 181	- 308	- 333	- 304	- 327	- 310	- 342	-394	- 400	- 412	- 426	- 484	- 541	- 581	- 563	- 593	-622	- 601	- 562	- 655	- 663	- 692	- 727	- 760	
Final energy consumption	1 672	1 952	2 066	1 899	2 038	2 084	2 053	1817	1 729	1 798	1 781	1 682	1 643	1 783	1 723	1 842	1 939	1 8 6 9	1 920	1 969	2 093	2 074	1 964	1 955	2 071	Final energy consumption
Industry	706	767	809	715	783	826	834	583	560	576	557	494	531	582	597	626	625	607	686	663	672	675	636	663	691	Industry
Transport	121	212	199	182	193	161	151	180	172	150	134	114	103	102	104	121	145	150	154	136	151	153	139	157	181	Transport
Residential	476	567	580	541	576	603	586	582	557	617	623	594	554	614	569	617	659	621	584	627	674	621	595	580	606	Residential
Commerce & public services	348 21	385 21	453 25	440 21	465 20	473 20	463 19	454 18	422 18	434 20	446 20	458 22	431 24	455 30	420 34	444 35	475 35	456 35	459 37	507 36	558 39	586 40	555 39	514 42	548	
Others	21	21	25	21	20	20	19	١δ	Iδ	20	20	22	24	30	34	35	35	35	5/	56	39	40	39	42	45	Others
ctricity Power generation	1 737	2 019	2 182	2 125	2 166	2 124	2 161	2 23 6	2 197	2 260	2 279	2 190	2 171	2 280	2 275	2 367	2 371	2 3 6 8	2 394	2 385	2 370	2 347	2 345	2 320	2 344	E lectricity Power generation
Thermal	390	434	597	615	596	602	572	566	535	561	535	479	503	509	476	469	479	485	475	433	444	437	419	419	411	Thermal
Hydro	1 068	1 209	1 291	1 200	1 262	1 215	1 227	1 303	1 270	1 323	1 359	1 327	1 2 6 5	1 352	1 369	1 410	1 377	1 3 7 6	1 387	1 420	1 389	1 374	1 391	1 382	1 431	Hydro
Nuclear	263	352	262	276	272	270	325	331	353	337	346	324	326	337	342	372	386	367	365	365	363	364	354	333	314	
Others	16	23	33	34	36	37	37	36	39	39	40	60	76	81	89	115	129	141	166	167	174	172	181	186	188	Others
Final energy consumption	1 505	1 608	1 55 1	1 5 6 6	1 629	1 663	1 660	1 759	1 721	1 761	1 748	1 703	1 721	1 753	1 733	1 780	1 807	1 8 0 4	1 787	1 857	1 901	1 9 0 4	1 865	1 892	1 931	Final energy consumpt
Industry	605	665	685	697	722	726	715	743	723	722	685	628	642	646	632	638	642	639	636	663	678	668	638	665	685	Industry
Transport	12	14	16	15	15	15	15	15	16	15	16	15	15	15	15	20	22	23	26	28	29	28	27	29	30	Transport
Residential	467	474	498	505	517	533	544	543	531	557	565	578	573	589	589	611	617	613	598	604	621	625	636	635	645	Residential
Commerce & public services	390	421	318	314	341	353	350	421	415	434	449	448	457	468	463	474	492	492	492	526	537	545	526	525	533	Commerce & public s
Others	31	34	35	35	35	36	37	37	35	33	34	35	34	34	34	36	35	36	34	35	37	38	38	38	<.2	Others

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	2022	
Population (million) *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	3434	34.71	35.08	35.44	35.70	36.11	36.55	37.07	37.60	38.01	38.23	38.94	Population (million) *1

Gross domestic product 13	878	956	1 164	1 185	1 220	1 242	1 281	1 322	1 3 5 6	1 385	1 3 9 8	1 358	1 400	1 444	1 4 6 9	1 503	1 546	1 557	1 572	1 620	1 665	1 696	1 610	1 691	1 761	Gross domestic product 15
Real term, billion USD (constant 2015)	957	1 042	1 269	1 291	1 330	1 354	1 396	1 441	1 4 7 9	1 5 0 9	1 5 2 4	1 480	1 526	1 574	1 601	1 639	1 686	1 697	1 714	1 766	1 815	1 849	1 755	1 843	2 215	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017) Nominal, billion USD (current)	596	606	745	739	761	896	1 027	1 173	1 3 1 9	1 469	1 553	1 375	1 617	1 793	1 828	1 847	1 806	1 557	1 528	1 649	1 725	1 744	1 648	2 001	2 161	GDP, billion USD (PPP, constant 2017) Nominal, billion USD (current)
, , , , , , , , , , , , , , , , , , , ,	330	000	143	133	701	030	1027	1 1/3	1313	1403	1 3 3 3	1 3/3	1017	1 755	1020	1047	1 000	1 337	1 320	1043	1 723	1 /44	1 040	2001	2 101	
GDP per capita *3	24 707	22.612	27.022	20.105	20.012	20.250	40.004	40.000	41 646	42.000	42.052	40.360	41 156	42.020	42.216	42.046	42.625	42.506	42.527	44225	44.017	45 112	12.200	44225	45.227	GDP per capita *3
Real term (constant 2015 USD)	31 707 34 563	32 612	37 923	38 185	38 912	39 258	40 094	40 990	41040	42 098	42 063	40 369	41 156	42 038	42 316 46 127	42 846	43 635	43 596	43 537	44 325	44 917 48 962	45 113	42 366	44 235	45 227 56 873	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)		35 549	41 339	41 624	42 416	42 793	43 704	44 681	45 397	45 890	45 851	44 004	44 862 47 562	45 823	40 121	46 705	47 565	47 522	47 458	48 317	48 962 46 548	49 176 46 374	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	47 302	52 224	52 669	52 635	50 956	43 596	42 316	45 129	40 346	40 3/4	43 350	52 359	55 509	Nominal (current USD)
Nominal GDP & its components (billion of current CAD) 1																										Nominal GDP & its components (billion 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 5 1 0	2 813	Gross domestic product
Household final consumption expenditure	388	464	603	631	669	699	731	772	814	863	902	905	950	992	1 024	1 0 6 5	1 113	1 151	1 185	1 241	1 294	1 336	1 264	1 3 6 5	1 513	Household 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	582	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	655	Gross fixed capital formation
Stock change	-2.8	8.6	112	-5.5	-2.8	5.7	6.8	11.3	10.6	9.0	10.0	-5.5	0.3	11.4	6.8	13.7	9.6	-0.6	-0.2	18.3	15.7	10.7	-27.9	-5.1	58.3	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	952	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	948	Imports of goods and services
Real GDP & its components (billion of 2019 CAD) *1																										Real GDP & its components (billion of 2019 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 1 6 2	2 252	Gross Domestic Product
Household final consumption expenditure	583	627	753	771	802	824	849	882	919	960	989	990	1 025	1 048	1 0 6 8	1 0 9 6	1 125	1 151	1 175	1 2 1 8	1 250	1 269	1 192	1 251	1 315	Household 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	496	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	496	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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	668	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	781	Imports of goods and services
Sectoral shares of Real GDP (%) 11																										Sectoral shares of Real GDP (%) 11
Agriculture, Fishery and Forestry	N.A.	N.A.	1.9	1.8	1.7	1.8	2.0	1.9	1.8	1.7	1.8	1.8	1.7	1.7	1.7	2.0	1.8	1.9	1.9	1.9	1.9	1.9	2.0	1.8	1.8	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	232	24.0	24.3	24.5	24.5	24.9	24.4	23.8	24.0	24.1	23.7	23.4	23.4	23.5	Industry
Services, etc.	N.A.	N.A.	632	63.8	64.1	64.3	64.3	64.4	65.0	65.5	65.8	67.3	66.9	66.7	66.7	66.6	66.5	67.0	67.6	67.5	67.5	68.0	68.1	68.4	68.5	Services, etc.
Industrial production index (2010=100) *2	8.08	91.1	111.5	111.6	116.6	120.3	119.5	109.5	111.1	109.7	106.3	94.3	100.0	104.8	104.8	106.7	112.1	111.5	111.6	115.7	119.7	119.5	109.9	0.0	119.6	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	599.0	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	583.5	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	-62	-9.4	0.4	-12.5	-7.0	5.1	-18.6	-19.2	-19.1	-16.8	-14.2	-30.0	3.7	15.5	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	-7.6	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	-12	-6.9	3.9	2.1	16.6	5.2	I
Foreign exchange rate (CAD/USD) *1	1.17	1.37	1.49	1.55	1.57	1.40	1.30	121	1.13	1.07	1.07	1.14	1.03	0.99	1.00	1.03	1.10	128	1.33	1.30	1.30	1.33	134	0.00	1.30	Foreign exchange rate (CAD/USD) *1
PPP conversion factor, GDP (CAD/USD) 11	1.24	1.21	1.23	1.22	123	123	123	121	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	123	123	1.24	1.16	PPP conversion factor, GDP (CAD/USD) 11
Price Indices																										
	64.0	co. 1	740	75.0	7.5	70.0	01.5	044	05.3	00.1	00.7	005	02.4	05.1	07.0	00.0	100.0	100.0	100.0	102.2	105.0	1067	407.3	****	1240	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	124.9	GDP Deflator (2015=100) 13
Producer Price Index (2010=100) *2	71.2 67.3	83.5 75.2	90.0 81.9	90.9 84.0	90.9 85.9	89.8 88.2	92.7 89.9	94.2 91.9	96.4 93.7	97.8 95.7	102.1 98.0	98.5 98.3	100.0 100.0	106.9 102.9	108.1 104.5	108.6 105.5	111.3 107.5	110.3 108.7	110.1 110.2	113.5 112.0	117.9 114.5	N.A. 116.8	N.A. 117.6	N.A. 121.6	N.A. 129.9	Producer Price Index (2010=100) *2
Consumer Price Index (2010=100) *2	0/.5	132	013	04,0	03,9	00.2	09.9	91,9	93.7	93.7	9010	300	100.0	102.9	104.3	100.0	107.3	100.7	110.2	112,0	114.3	110.0	117.0	121,0	129.9	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	3.8	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	12	1.4	1.4	1.1	0.6	1.8	Population
Price							2.0				7.0				2.5	2.4	2.7	2.0	2.5	4.0	4.3	2.4			7.0	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	7.9	Producer prices
Consumer prices	-8.0	3.1	8.3	-32	2.3	9.5	8.7	11.1	5.7	3.0	1.7	-13.8	12.3	8.0	3.6	3.6	8.0	-6.7	-4.8	73	1.8	0.2	-9.5	12.9	7.3	Consumer prices

Source

*1 : World Development Indicators, World Bank (WB)

*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)

Energy prices in Canada

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
_		2010	2011	2012	2013	2017	2013	2010	2017	2010	2019	2020	2021	2022
Currency Exchange Rate	CAD / US Dollar	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33	1.34	1.25	1.30
Coal and Coal Products														
Coking Coal						109.86	140.91							
Anthracite	USD/tonne					127.37	178.58							
Other bituminous coal	USD/tonne					91.63	98.03							
Sub-bituminous Coal	USD/tonne					24.76	15.12							
Lignite	USD/tonne					47.92	58.26							
Peat	USD/tonne													
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Oil and Oil Products														
Crude Oil	CAD/Imp BBL*	97.83	131.53	132.65	134.25	130.71	82.07	69.36	84.57	110.22	100.50	73.69	104.16	162.65
Natural Gas Liquids	CAD Cents/L					56.00	32.00							
Ethane	CAD Cents/L					10.00	9.00							
LPG	CAD Cents/L					39.00	21.00							
Naphtha	CAD Cents/L					72.00	72.00							
Motor Gasoline	CAD Cents/L					82.00	82.00							
Aviation Gasoline														
Gasoline Type Jet Fuel	USD/L					1.21	1.21							
Kerosene Type Jet Fuel	CAD Cents/L					81.00	81.00							
Other Kerosene	CAD Cents/L					88.00	88.00							
Gas/Diesel Oil	CAD Cents/L					87.00	87.00							
Fuel Oil	CAD Cents/L					67.00	67.00							
White Spirit SBP	USD/L					1.26	1.26							
Lubricants	USD/L					1.98	1.98							
Bitumen	CAD Cents/kg					64.00	64.00							
Paraffin Waxes														
Petroleum Coke	USD/tonne					174.97	174.97							
Natural Gas														
Natural Gas	CAD Cents/m ³					25.00	13.64	11.79	13.77	14.97	12.53	9.41	16.38	28.58
Liquefied Natural Gas	USD/m ³					4.34	4.07							
Compressed Natural Gas	CAD Cents/m ³					23.00	15.00							
Electricity	USD/MWh					48.52	35.14							

^{*} USD/BBL in 2011 and 2012

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	BND										2015	2020	2021	2022
Exchange Rate	/ US Dollar	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33	1.34	1.25	1.30
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil	CAD/BBL					93.99	48.66							
Natural Gas Liquids														
Ethane	CAD/BBL					12.46	7.49							
Propane	CAD/BBL					44.42								
Butane	CAD/BBL					68.02								
Naphtha														
Motor Gasoline	CAD Cents/L		78.01	80.61	81.08	80.50	61.70							112.80
Aviation Gasoline														
Gasoline Type Jet Fuel							63.00							
Kerosene Type Jet Fuel						88.90	63.00							
Other Kerosene														
Gas/Diesel Oil	CAD Cents/L		83.64	85.28	87.78	91.30	65.90							140.00
Fuel Oil	CAD Cents/L		63.65	84.99	86.43	86.60	64.07							
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas	CAD Cents/m ³					18.64	13.70							
Liquefied Natural Gas														
Compressed Natural Gas														
Electricity	CAD Cents/kWh					7.31	6.86							

Chile

Energy balance table of Chile

2022

											Petajoules	5										
		Coal	Crude oil			Petrole	eum products				•						Other		Electricity and		Total	
	Coal	Coal products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	r Geothermal	Solar	Wind	renewables ¹	Others ²	Electricity and heat	Total	renewables	
roduction	0.4		4.6								46	73		17	57	32	347			577	526	Production
nport	222	0.1	302	484	72	25	316	0.5	62	9.2	193									1 202		Import
xport		-0.8	- 18	- 43			- 12	- 18	- 12	-1.4										- 62		Export
ternational marine bunkers				-2.8				-2.8												-2.8		International marine bunkers
ternational aviation bunkers				- 28		- 28														- 28		International aviation bunkers
tock changes	6.3	-1.1	2.2	- 11		-0.4	-3.4	1.5	0.3	1.5	-3.9						0.8			-6.9	0.8	Stock changes
otal primary energy supply	228	-1.9		399		-3.1	301	- 19	50	9.3	235	73	••••••	17	57	32		••••••		1 679	527	Total primary energy supply
ransfers			6.3	6.3						6.3										13		Transfers
otal transformation sector	- 223	8.3	- 296	296	100	23	75	37	20	40	- 158	- 73		- 17	- 57	- 32	- 161		317	- 396	- 340	Total transformation sector
Main activity producers	- 208			- 18			- 15		-0.1	-3.8	- 126	- 73		- 17	- 56				294	- 259	- 200	Main activity producers
Autoproducers				-4.8			-3.9	-0.9			-4.9	-0.7			-0.8		- 139		23	- 126	- 140	
Gas processing																						Gas processing
Petroleum refineries			- 316	319	100	23	94	38	20	44										3.7		Petroleum refineries
Coal transformation	- 14	8.3																		-6.2		Coal transformation
Other transformation		3.5	19								- 27									-8.1		Other transformation
osses & own use	-0.1	-4.4		- 27			-0.8	-0.2	-0.6	- 26	- 16						-0.4		- 26	- 74	-0.4	
iscrepancy	3.1	0.1		-6.0		0.8		0.7	3.4	- 10	9.6						0.2		-1.1	4.8	0.2	
otal final consumption	8.6	2.1		668		21		19	73	19	71						186		290	1 226	186	
otal final energy consumption	8.6	2.1		663		21		19	73	14	71						186		290	1 220	186	
Industry sector	7.6	2.1		163		1.2		14	12	8.4	39						83		169	464	83	
Mining and quarrying	1.5	2.1		108		1.0	103	3.0	0.8	0.6	9.4						0.1		106	225	0.1	Mining and quarrying
Construction	1.5			7.9		1.0	7.0	0.2	0.6	0.0	1.9						0.1		0.4	10	0.1	Construction
Iron and steel		2.0		0.6			0.4	0.2	0.1	0.1	0.6								2.3	5.6		Iron and steel
Chemical & petrochemical		2.0		0.0			0.4		0.1	0.1	0.1								0.1	0.2		Chemical & petrochemical
Non-ferrous metals											0.1								0.1	0.2		Non-ferrous metals
Non-metallic minerals	1.1			7.8			0.4	0.1		7.3	0.3								2.0	11		Non-metallic minerals
Transportation equipment	1			1.0			0.4	0.1		1.3	0.5								2.0			Transportation equipment
Machinery	4.5	0.1		0.4			0.4	0.0	0.4		0.0						0.4		0.7	2.0	0.4	Machinery
Food, beverages and tobacco	1.5	0.1		0.4 10			0.1 1.4	0.2 8.3	0.1 0.5		0.8 5.4						0.4 71		0.7 20	3.9 106	0.4 71	
Pulp, paper and printing				10			1.4	0.3	0.5		5.4						/1		20	106	/ 1	. u.p, paper arra printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	3.4	0.1		28		0.2	15	2.6	9.6	0.4	21						12		38	102	12	
Fransport sector				408		20	219	2.3	8.0	0.3	0.3								5.4	414		Transport sector
Domestic air transport				20		20														20		Domestic air transport
Road				377	166		210		0.8	0.3	0.3								1.4	379		Road
Rail				2.0			2.0												1.8	3.9		Rail
Inland waterways				9.2			6.9	2.3											0.1	9.3		Inland waterways
Non-specified transport																			2.1	2.1		Non-specified transport
Other sector	1.0			91		0.2	24	2.2	60	4.8	31						104		115	342	104	
Residential				51					47	4.8	23						101		58	233	101	l .
Commerce and public services				27		0.2	15	0.1	11	0.1	6.8						2.3		45	81	2.3	
Agriculture	0.3			6.2			3.7	0.2	2.2		0.8						0.3		11	18	0.3	9
Fishery	0.8			7.3			5.1	1.9	0.4		0.4								1.2	9.7		Fishery
Non-specified																						Non-specified
on-energy				5.5						5.5										5.5		Non-energy
										Elect	ricity and hea	toutput										
ectricity generated (GWh)	19 170			2 726							16 088			467	15 714	8 893	4 595			88 040	50 056	Electricity generated (GWh)
Electricity plants	19 170			2 726							16 088			467	15 714					83 446	45 461	
CHP plants				•													4 595			4 595	4 595	
eat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
. rous plume	1																					Trout plants

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

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

Energy balance table of Chile

2021

											Petajoules	5										
		Coal	Crude oil			Petrol	eum products										Other		Electricity and		Total	
	Coal	products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	renewables ¹	Others ²	heat	Total	renewables	
Production	0.7		1	16							42	70		12	42	27	333			543	484	Production
Import	273		34	18 380	35	21	254	1.5	59	8.7	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		6.0	0.1	-1.6	-1.5	0.9						0.9			-5.3	0.9	Stock changes
Total primary energy supply	266	-1.5	36	322	32	1.6	250	- 15	47	5.8	221	70		12	42	27	334			1 656	485	Total primary energy supply
Transfers			5	50 - 49	-8.1	-0.3	-7.8	-3.1	-1.4	- 29										1.0		Transfers
Total transformation sector	- 268	8.9	- 41	16 378	126	16	112	41	23	60	- 120	- 70		- 12	- 39	- 27	- 212		317	- 460	- 360	Total transformation sector
Main activity producers	- 253			- 21			- 16	-0.1	-0.1	-4.8	- 116	- 69		- 12	- 39	- 27	- 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			- 41	16 406	126	16	132	44	23	65										- 10		Petroleum refineries
Coal transformation	- 15	8.9			.20															-6.5		Coal transformation
Other transformation	15	0.0																		0.0		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		.6 5.5		-0.1	-1.9		3.4	-0.2	5.2						9.4		- 18	14		Discrepancy
Total final consumption	6.6			643					68	28	92				3.1		132		275	1 152		Total final consumption
Total final energy consumption	6.6			629					68	14	68				3.1		132		275	1 114		Total final energy consumption
Industry sector	6.6	0.4		153		1.9			11	8.1	39				J.1		55		162	415		Industry sector
•	1	0.4		100		1.1		3.6	0.5	0.1	9.7						55		102	213		-
Mining and quarrying	0.4					1.1				0.0												Mining and quarrying
Construction				7.8			7.5	0.1	0.1		1.9								0.1	9.8		Construction
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-ferrous metals																						Non-ferrous metals
Non-metallic minerals	0.5			7.2						7.1	0.5								2.1	10		Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco	1.8	0.1		0.3			0.2										0.3		0.6	3.1	0.3	Food, beverages and tobacco
Pulp, paper and printing				10.0			0.8	8.6	0.5		5.0						40		20	75	40	Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	3.9			27		0.7	15	1.6	9.4	0.5	17						14		34	96	14	Non-specified industry
Transport sector				386					0.8	0.3	0.3								4.5	390		Transport sector
Domestic air transport				16																16		Domestic air transport
Road				355			199	0.2	0.8	0.3	0.3								2.8	358		Road
Rail				1.8			1.8		0.0	0.5	0.5								1.7	3.5		Rail
Inland waterways				13			8.8	4.7											1-1	13		Inland waterways
Non-specified transport				13			0.0	4.1												13		Non-specified transport
				00			25	3.3	57	5.4	20				3.1		77		100	308	00	
Other sector Residential				90 50			25	3.3	45	5.4	29 22				3.1		77 76		109 54	202		Other sector
							40	0.4		5.4												Residential
Commerce and public services				26			16	0.1	10		5.9						0.6		46	78		Commerce and public services
Agriculture				5.1			2.9		1.8		0.7						0.5		8.4	15		Agriculture
Fishery				9.0			6.1	2.8	0.2		0.1								0.5	9.7		Fishery
Non-specified	-														3.1					3.1		Non-specified
Non-energy				14						14										38		Non-energy
	1										tricity and hea										1	
Electricity generated (GWh)	26 065			3 061			2 597	96	6	363	15 902	19 348		324	10 565					88 019		Electricity generated (GWh)
Electricity plants	26 065			3 061			2 597	96	6	363	15 902	19 348		324	10 565	7 628				82 894		• •
CHP plants																	5 125			5 125	5 125	•
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

Major energy indicators of Chile

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	tajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
tal	587	768	1 054	1 034	1 071	1 082	1 152	1 188	1 236	1 282	1 270	1 23 6	1 292	1 407	1 558	1 612	1 456	1 487	1 584	1 605	1 63 6	1 732	1 578	1 656	1 679	Total
rimary 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	577	Primary energy supply 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 0 5 0	1 146	1 143	1 152	1 222	1 082	1 180	1 202	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	- 62	E xport
nal energy consumption	426	598	753	754	762	761	797	813	844	887	904	902	956	1 020	1 014	1 087	1 014	1 038	1 086	1 103	1 146	1 150	1 087	1 114	1 220	Final energy consumpt
Industry	143 128	202 191	278 237	285 225	284 231	289 228	302 236	305 258	336 254	349 275	354 286	343 289	365 299	399 304	380 312	416 341	438 331	439 354	444 370	424 383	443 397	442 403	431 357	415 390	464 414	Industry
Transport Residential	131	172	204	211	209	204	210	205	208	214	210	214	223	234	250	256	170	166	183	184	193	194	201	202	233	i iuniop oit
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	81	
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	28	Others
aland peat	104	94	120	100	101	97	112	112	120	138	102	149	188	226	255	271	260	277	300	309	300	2.45	205	266	220	Coal and peat
imary energy supply Production	104 61	29	128 10	100 16	12	16	113 5.3	112 11	138 11	4.4	182 11	148 10	11	226 10	255 12	271 51	260 70	53	42	41	38	345 24	285 8.0	266 0.7	228 0.4	
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	222	
Export																- 21	-37	- 14	- 15	- 15	-7.0				,	E xport
ransformation 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	- 223	. [
Powergeneration	- 70	- 58	- 87	- 53	- 61	- 58	- 71	-72	- 99	- 107	- 138	- 139	- 161	- 200	- 237	- 278	- 236	-275	- 291	- 290	- 280	- 320	- 295	- 253	- 208	Power generation
inal energy consumption	21	16	21	27	21	18	21	18	25	13	16	5.6	14	8.9	7.4	3.7	5.7	6.7	5.7	9.1	6.7	6.0	5.9	6.6	8.6	. mar energy concump
Industry	18	15	20	27	21	18	20	17	24	13	15	5.2	14	8.8	7.3	3.6	5.6	6.6	5.7	9.0	6.6	6.0	5.8	6.6	7.6	madaliy
Transport Residential	0.6	0.3																							,	Transport Residential
C ommerce & public services	0.1		0.1		0.3		0.2	0.1	0.2	0.2	0.2	0.1					0.1	0.1							,	C ommerce & public
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		1.0	Others
land peat products	1.0	3.7	0.8	-0.1	0.4	3.5	0.6	1.1	1.0	-1.4	2.1		-1.2	0.9	2.9	0.2	-3.0	-1.5	-2.1	-1.4	-2.4	-0.6	-3.1	-1.5	-1.9	C oal and peat products
rimary energy supply Production	1.0	5./	0.6	-0.1	U.A	3.3	0.0	1.1	1,0	-14	2.1		-12	0.9	2.9	U-Z	-5.0	-1.5	-2.1	-14	-2.4	-U.D	-5.1	-1.5	-1.9	Primary energy supply 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							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	-0.8	E xport
ransformation 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	8.3	Transformation sector
Powergeneration																									,	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	2.1	Final energy consump
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	2.1	
Transport Residential																									,	Transport Residential
C ommerce & public services																									,	Commerce & public
Others																									,	Others
de oil & NGL																										C rude oil & NGL
rimary energy supply Production	275 49	352 28	426 18	434 20	426 18	463 16	478 16	456 15	498 15	478 25	468 25	454 30	388 26	418 27	398 22	418 23	400 18	375 12	373 11	385 13	397 17	431 22	337 17	363 16	291 4.6	Primary energy supply 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	302	
Export																									- 18	
Fransformation sector	- 263	- 341	- 419	- 425	- 417	- 454	- 470	- 471	-533	- 502	- 492	- 499	- 414	- 457	- 447	- 443	- 445	-432	- 424	- 422	- 440	- 469	- 362	- 416	- 296	Transformation sector
Petroleum refineries	- 263	- 341	- 419	- 425	- 417	- 454	- 470	- 471	- 533	- 502	- 492	- 499	- 414	- 458	- 447	- 445	- 445	-432	- 424	- 423	- 440	- 469	- 362	- 416	- 316	Petroleum refineries
roleum products	4.2	40	43	25	0.5	26	10	2.0	16	200	214	100	240	244	255	246	245	265	202	204	20.0	262	200	722	200	P etroleum products
rimary energy supply Import	-4.2 23	40 69	13 81	- 25 63	9.5 93	- 26 91	- 19 125	28 159	16 169	200 317	214 336	189 291	240 307	244 306	255 324	246 322	245 305	265 316	302 354	284 343	288 356	262 329	299 339	322 380	399 484	Primary energy supply Import
Export	-8.8	-1.7	- 36	- 53	- 39	- 69	- 61	-72	- 84	- 51	- 54	- 47	- 26	- 26	- 37	- 39	-24	- 20	- 19	- 21	- 31	- 22	- 25	- 37	- 43	
Fransformation sector	241	320	389	413	387	427	433	422	466	334	333	326	298	317	310	351	373	383	373	393	402	428	350	378	296	Transformation sector
Power generation	- 20	- 21	- 19	- 14	- 17	- 23	- 34	-41	- 32	- 131	- 131	- 104	- 73	- 60	- 76	- 50	-41	- 32	- 32	- 22	- 17	- 16	- 16	- 27	- 23	
Petroleum refineries	263	343	408	427	405	452	467	464	499	468	467	433	372	382	388	403	414	415	405	415	419	444	367	406	319	P etroleum refineries
inal energy consumption	222	334	381	365	366	360	372	393	403	459	477	478	494	522	507	548	547	575	607	623	639	640	589	629	663	i maranagy concump
Industry	56 127	87 190	86 236	86 223	82 230	85 226	82 234	87 256	103	131 273	135 284	132 286	127 297	135 302	123 309	139 338	160 326	165 349	163 365	151 379	151 392	150 398	151 352	153 386	163 408	.1
Transport Residential	32	45	46	223 45	42	226 36	234 39	37	252 37	40	204 37	40	39	42	41	43	326	349	42	379 44	46	398 46	48	50	51	Transport Residential
C ommerce & public services	5.1	7.3	6.7	5.6	6.5	10	11	10	8.7	10	14	14	19	27	21	19	15	18	26	30	30	28	22	26	27	C ommerce & public
Others	3.2	4.0	7.0	5.4	6.2	3.8	6.1	4.1	2.8	4.6	5.3	6.1	12	15	12	8.8	8.1	8.8	11	18	19	19	17	14	14	Others
3		40	24.0	2.47	247	270	204	205	262	100		447	107	101	470	470	150	167	100	100	463	220	202	224	22-	Gas
rimary energy supply Production	48 59	48 60	218 67	247 71	247 69	270 58	294 58	285 67	262 65	160 62	88 61	117 65	187 65	191 52	179 43	170 34	152 28	167 35	182 42	182 43	183 44	220 54	202 41	221 42	235 46	
Import			154	184	184	214	239	221	202	98	27	51	126	139	138	137	122	131	153	147	145	169	159	178	193	1 Todacton
Export		-2.4																	- 13	-7.4	-5.6					Export
Fransformation sector	-0.6	-0.5	-70	- 94	- 83	- 107	- 122	- 114	- 86	- 38	- 19	- 28	- 73	- 97	- 100	- 87	-71	- 81	- 89	- 97	- 91	- 110	- 106	- 120	- 158	Transformation sector
Power generation	-2.6	-3.1	- 69	- 94	- 83	- 107	- 121	- 113	- 85	- 38	- 20	- 32	- 73	- 101	- 101	- 87	-71	- 81	- 89	- 95	- 91	- 110	- 106	- 120	- 130	
inal energy consumption	8.7	11	43	48	53	55	59	53	50	33	24	29	69	64	50	52	50	58	60	62	65	67	64	68	71	Final energy consump
	0.1 0.2	0.4	28	30	34	35	38	33	28	9.5	2.7	6.4	46	42	26	28	25	32	34	34	36	39	36	39	39	Industry
Industry		0.3 8.6	0.3 11	0.4 14	1.0 13	1.0 13	1.1 13	1.3 15	1.3 15	1.0 17	0.5 15	0.8 16	0.7 17	0.7 17	1.2 17	1.2 17	1.4 18	1.1 19	1.0 19	0.7 20	0.6 21	0.6 21	0.3 21	0.3 22	0.3 23	
Transport			3.0	3.1	3.3	3.4	4.0	3.7	4.9	5.6	5.3	6.0	5.4	5.3	5.5	5.4	5.7	5.8	5.4	6.8	6.0	6.2	4.7	5.9	6.8	110010011001
Transport Residential	7.2 1.2	1.4	-	0.6	1.1	1.9	1.8	0.6	0.9	0.5		0.2	0.1					0.2		0.9	1.3	1.0	1.0	0.9	1.2	
Transport Residential Commerce & public services	7.2	1.4		0.0																						E lectricity
Transport Residential C ommerce & public services Others dricity	72 12										215	219	218	237	251	263	255	271	286	286	20.6					
Transport Residential Commerce & public services Others ctricity Power generation	7.2 1.2	101	144	153	157	169	184	189	199	211	215				460	4.00		4.53			296	304	302	317	317	Power generation
Transport Residential Commerce & public services Others ctricity Power generation Thermal	7.2 1.2 66 31	101 28	74	153 70	70	84	98	87	89	118	117	112	130	143	160 73	169 71	144	153 86	162	160	159	163	155	162	137	Power generation Thermal
Transport Residential Commerce & public services Others ctricity ower generation Thermal Hydro	7.2 1.2	101		153											160 73	169 71		153 86								Power generation Thermal Hydro
Transport Residential Commerce & public services Others ctricity Ower generation Thermal	7.2 1.2 66 31	101 28	74	153 70	70	84	98	87	89	118	117	112	130	143			144		162	160	159	163	155	162	137	Power generation Thermal Hydro Nudear
Transport Residential Commerce & public services Others ctricity Power generation Thermal Hydro Nuclear Others	72 12 66 31 32	101 28 66	74 67	153 70 76	70 80	84 78	98 79	87 95	89 105	118 83	117 87	112 91	130 78	143 76	73	71 23	144 83	86	162 84	160 77	159 84	163 81	155 79	162 70 85	137 73	Power generation Thermal Hydro Nuclear Others
Transport Residential Commerce & public services Others ctricity ower generation Thermal Hydro Nuclear Others	7.2 1.2 66 31 32 3.5 56 37	101 28 66 6.8 87 60	74 67 3.4 132 92	153 70 76 7.5 142 98	70 80 7.0 147 101	84 78 6.5 160 111	98 79 7.3 169 116	87 95 6.5 174 117	89 105 5.2 183 123	118 83 10 191 129	117 87 11 193 131	112 91 16 195 132	130 78 10 197 129	143 76 18 209 138	73 19 224 152	71 23 235 154	144 83 27 242 156	86 32 241 152	162 84 40 253 157	160 77 49 251 149	159 84 53 263 159	163 81 61 267 160	155 79 68 268 161	162 70 85 275 162	137 73 107	Power generation Thermal Hydro Nuclear Others Final energy consums
Transport Residential Commerce & public services Others ctricity ower generation Thermal Hydro Nuclear Others Industry Transport	7.2 1.2 66 31 32 3.5 56 37 0.8	101 28 66 6.8 87 60 0.7	74 67 3.4 132 92 0.8	153 70 76 7.5 142 98 0.8	70 80 7.0 147 101 0.8	84 78 6.5 160 111 0.8	98 79 7.3 169 116 0.8	87 95 6.5 174 117 0.9	89 105 5-2 183 123 1-2	118 83 10 191 129 1.5	117 87 11 193 131 1.5	112 91 16 195 132 1.5	130 78 10 197 129 1.6	143 76 18 209 138 1.7	73 19 224 152 1.8	71 23 235 154 1.9	144 83 27 242 156 3.4	86 32 241 152 3.9	162 84 40 253 157 3.5	160 77 49 251 149 3.5	159 84 53 263 159 4.1	163 81 61 267 160 4.7	155 79 68 268 161 4.6	162 70 85 275 162 4.5	137 73 107 290 169 5.4	Power generation Thermal Hydro Nuclear Others Final energy consump Industry Transport
Transport Residential Commerce & public services Others ctricity Power generation Thermal Hydro Nuclear Others Final energy consumption	7.2 1.2 66 31 32 3.5 56 37	101 28 66 6.8 87 60	74 67 3.4 132 92	153 70 76 7.5 142 98	70 80 7.0 147 101	84 78 6.5 160 111	98 79 7.3 169 116	87 95 6.5 174 117	89 105 5.2 183 123	118 83 10 191 129	117 87 11 193 131	112 91 16 195 132	130 78 10 197 129	143 76 18 209 138	73 19 224 152	71 23 235 154	144 83 27 242 156	86 32 241 152	162 84 40 253 157	160 77 49 251 149	159 84 53 263 159	163 81 61 267 160	155 79 68 268 161	162 70 85 275 162	137 73 107 290 169	Power generation Thermal Hydro Nuclear Others Final energy consumpt Industry Transport Residential

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	2022	
Population (million) *1	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	19.60	Population (million) *1
Gross domestic product *3																										Gross domestic product *3
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	279	Real term, billion USD (constant 2015)
, , , , , , , , , , , , , , , , , , , ,	129	189	237	244	252	264	281	298	316	332	345	341	361	383	407	420	428	437	445	451	469	472	443	495	578	
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	302	GDP, billion USD (PPP, constant 2017) Nominal, billion USD (current)
	, ,,	,,	70	12	70	,,,		122	154	173	100	.,,	217	231	201	211	233	242	243	210	233	210	234	317	302	
GDP per capita *3									40.707		44.470	44.555	44.777	42.222	43.647	42240	42.422	42.530	43.645	43.646	42.007	43.744	42.744			GDP per capita *3
Real term (constant 2015 USD)	5 381	7 279	8 5 5 1	8 723	8 9 0 5	9 228	9 746	10 215	10 727	11 171	11 479	11 235	11 773	12 382	13 017	13 3 19	13 422	13 570	13 645	13 616	13 907	13 761	12 741	14 096	14 235	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.	29 481	GDP, PPP (constant 2017 USD)
Nominal (current USD)	2 482	5 095	5 097	4 607	4 4 7 9	4 824	6 186	7 5 6 2	9 418	10 461	10 783	10 183	12 768	14 629	15 406	15 833	14 666	13 570	13 786	15 046	15 796	14 627	13 165	16 247	15 411	Nominal (current USD)
Nominal GDP & its components (billion of current CLP) *1																										Nominal GDP & its components (billion of current CLP)
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	263 843	Gross domestic product
Household final consumption expenditure	6 246	18 230	26 225	28 025	29 5 9 6	31 735	34 933	39 362	43 641	48 527	54 621	54 478	62 687	70 651	77 136	83 327	90 609	97 990	104 904	111 315	117 562	120 583	117 610	148 210	168 052	Household final consumption expenditure
General government final consumption expenditure	985	2 864	5 3 1 5	5 741	6 174	6 442	6 903	7 5 0 0	8 400	9 508	10 574	12 372	13 898	14 959	16 020	17 556	19 569	21 560	24 205	26 267	28 143	29 826	32 254	35 229	38 720	General government final consumption expenditure
Gross fixed capital formation	2 421	7 504	9 3 0 5	10 212	10 787	11 685	12 923	16 000	17 184	19 817	25 232	23 189	25 496	30 038	34 771	36 179	37 688	40 402	40 722	39 911	43 664	48 002	45 416	55 630	66 737	Gross fixed capital formation
Stock change	199	559	721	728	888	693	- 94	- 69	915	332	1 892	-1154	1 9 5 0	2 340	2 650	1 577	- 467	205	- 709	680	2 185	982	-2 863	3 134	776	Stock change
Exports of goods and services	3 281	8 342	12717	14 462	15 622	18 546	23 967	27 507	35 785	40 689	38 638	35 682	41 989	45 797	43 990	44 059	48 830	46 304	47 124	50 802	54 044	54 504	63 055	76 870	93 704	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	104 146	Imports of goods and services
Real GDP & its components (billion of 2019 CLP) *1																										Real GDP & its components (billion of 2019 CLP) *1
Gross Domestic Product	52 300	76 436	95 614	98 629	101 788	106 596	113 710	120 348	127 629	134 225	139 311	137 754	145 815	154 890	164 424	169 864	172 909	176 630	179 726	182 166	189 435	190 843	179 115	200 138	203 305	Gross Domestic Product
Household 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	134 840	Household 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	33 204	
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 63 1	39 849	44 635	45 224	43 391	43 438	42 412	41 002	43 664	45 623	40 680	47 072	49 022	General government final consumption expenditure Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	NΔ	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NΔ	NΔ	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2 185	N.A.	N.A.	N.A.	NA	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	51 777	Exports of goods and services
Imports of goods and services	6 554	13 417	18 072	18 97 5	19 3 2 4	20 845	24 911	29 487	33 184	37 748	41 847	34 440	43 133	49 965	51 871	52 835	49 358	48 936	49 509	51 714	56 164	55 189	48 387	63 772	64 792	Imports of goods and services
Sectoral shares of Real GDP (%) *1	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	3.7	Sectoral shares of Real GDP (%) *1
Agriculture, Fishery and Forestry	44.5	43.6	41.4	40.6	39.4	38.4	37.1	35.6	34.6	33.0	31.5		30.2		29.2	29.2	28.9	28.7	28.1	27.6	27.9	27.5	28.3	26.3	24.4	Agriculture, Fishery and Forestry
Industry	51.5	52.6	48.1	48.6	49.4	50.4	50.5	51.3	51.9	53.5	55.1	31.3 55.5	56.1	29.2 56.9	57.1	57.0	57.4	57.7	58.1	58.3	58.0	58.5	57.5		61.6	modery
Services, etc.		52.0																								Survices, etc.
Industrial production index (2010=100) *2	N.A.		78 <i>A</i>	79.9	81.3	85.5	93.0	98.1	101.3	105.4	105.7	97.8	100.0	103.7	107.2	110.8	111.1	111.7	110.6	109.9	113.0	N.A.	N.A.	N.A.	152.0	Industrial production index (2010=100) *2
External trade (billions of current USD) *1																										External trade (billions of current USD) *1
Exports, f.o.b	8.4	16.0	19.2	18.3	18.2	21.7	32.5	41.3	58.7	68.0	64.5	55.5	71.1	81.4	77.8	76.8	75.1	62.0	60.7	68.8	74.8	68.8	74.1	94.7	98.5	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	104.5	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Trade balance	1.3	1.4	2.2	1.9	2.4	3.8	10.2	11.3	22.9	24.1	6.1	15.3	15.9	10.8	2.6	2.0	6.5	3.4	4.9	7.4	4.2	3.0	18.4	0.0	3.7	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	0.0	-26.2	Current account
O verall 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	0.0	-7.4	O verall 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	873.31	Foreign exchange rate (CLP/USD) *1
PPP conversion factor, GDP (CLP/USD)*1	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	426.10	PPP conversion factor, GDP (CLP/USD) *1
Price Indices	103	20.1	44.2	46.0	47.6	40.6	F2.4	55.0	63.0	67.2	67.4	60.0	76.0	70.4	79.0	00.0	05.6	000	03.0	00.4	1000	1026	112.5	1201	120.0	Price Indices
GDP Deflator (2018=100) *3	19.3	38.1	44.2	46.0 N.A	4710	49.6	53.1 N.A	56.9	63.9 7.2	67.2	67.A	69.8	76.0	78.4	1310	80.8	85.6	89.8	93.9	98.4	100.0	102.6	112.5	120.1	129.8	GDP Deflator (2018=100) *3
Producer Price Index (2010=100) *2	N.A.	N.A.	N.A. 73.7	N.A.	N.A.	N.A.	N.A.	1.4		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. 142.1	189.7	Producer Price Index (2010=100) *2
Consumer Price Index (2010=100) *2	30.0	57.3	/5./	76.3	78.2	80.4	81.2	83.7	86.6	90.4	98.3	98.6	100.0	103.3	106 <i>A</i>	108.4	113.5	118.4	122.9	125.6	128.6	131.9	135.9	142.1	158.6	Consumer Price Index (2010=100) *2
Growth rate (%) *3																										Growth rate (%) *3
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	2.1	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	0.6	Population
Price																										Price
P ro du cer 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.	19.7	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	11.6	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

Note

: 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)

China

Energy balance table of China

2022

											Petajoules	5										
						Patrola	um products				1 ctajouics											
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear G	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	93 886		8 571	-					-		8 201	4 694	4 558		1 538	2 746	2 951	511		127 656	11 929	Production
Import	5 237	15	21 279	2 991	0.9	49	19	546	1 352	1 024	5 618								26	35 165		Import
Export	- 99	- 254		-2 426	- 542	- 472	- 467	- 781	- 44	- 120	- 217								- 72	-3 156		Export
nternational marine bunkers				- 245			- 13	- 231												- 245		International marine bunkers
International aviation bunkers				- 74		- 74		20.												- 74		International aviation bunkers
Stock changes	-3 542	- 175	- 434	- 806	-8.9	3.3	- 677	- 23	- 26	- 74	- 18									-4 974		Stock changes
Total primary energy supply	95 482	- 414		- 561	- 550	- 494	-1 138	- 490	1 282	829	13 584	4 694	4 558		1 538	2 746	2 951	511	- 47	154 373	11 929	Total primary energy supply
Transfers	30 1.02		20000	-5 228	- 66		- 90	-1 054	- 500	-3 518	10 001					2110	200.			-5 228		Transfers
otal transformation sector	-75 818	9 191	-29 178	33 413	6 311	1 164	8 224	2 498	2 412	12 804	-2 589	-4 694	-4 558		-1 538	-2 746	-1765	- 519	41 699	-39 102	-10 742	Total transformation sector
Main activity producers	-55 604	-2 046		- 367	0311	1 104	- 14	- 108	- 22	- 222	-2 634	-4 694	-4 558		-1 538	-2 746	-1765	- 519		-34 772	-10 742	Main activity producers
	-33 004	-2 040	-0.0	- 301			- 14	- 100	- 22	- 222	-2 034	~ 034	-4 330		-1 550	-2 140	-1703	- 515	41 003	-34 112	-10 742	
Autoproducers	-1 060	- 148		26					-1.9	24	45									-1 189		Autoproducers
Gas processing	-1000	- 140		- 26	C 244	4 404	0.000	0.000		- 24	45											Gas processing
Petroleum refineries			-29 178	33 805	6 311	1 164	8 238	2 606	2 436	13 050										4 627		Petroleum refineries
Coal transformation	-19 153	11 385																		-7 768		Coal transformation
Other transformation																						Other transformation
Losses & own use	- 452	- 58		-3 334	- 22		- 118	-1.7	- 27	-3 165	- 890						- 37		-5 796	-10 704	- 37	Losses & own use
Discrepancy	-4 088	- 153		75	- 23	110	- 372	- 31	166	226	125							7.3	-1 562	-5 585		Discrepancy
Total final consumption	15 125	8 565		24 365	5 649	780	6 506	921	3 333	7 176	10 230						1 149		34 294	93 753	1 149	Total final consumption
Total final energy consumption	11 611	7 109		17 137	5 638	780	6 502	819	2 540	858	9 766						1 149		34 294	81 091	1 149	Total final energy consumption
Industry sector	9 248	7 023	26	2 909	279		699	130	1 042	758	5 742						362		21 218	46 527	362	Industry sector
Mining and quarrying	143	86		139	1.9		136	0.7		0.6	28						4.7		470	870	4.7	Mining and quarrying
Construction	79	0.5		533	235		227	17	6.8	48	15						6.8		415	1 050	6.8	Construction
Iron and steel	2 234	5 203		37	0.5		24	1.9	3.6	7.6	548						9.3		2 654	10 685	9.3	Iron and steel
Chemical & petrochemical	541	821	25	1 567	7.6		42	40	1 000	478	1 835						153		6 522	11 463	153	Chemical & petrochemical
Non-ferrous metals	389	172	0.1	104	0.8		18	3.0	1.1	81	552						4.0		3 111	4 333	4.0	Non-ferrous metals
Non-metallic minerals	5 343	486		366	3.7		156	55	19	132	1 036						35		1 511	8 777	35	Non-metallic minerals
Transportation equipment	13	5.5		24	5.2		15	1.8	1.4	0.8	246						0.5		599	889	0.5	Transportation equipment
Machinery	57	224		72	16		41	2.8	5.8	6.2	729						7.2		2 565	3 655	7.2	Machinery
Food, beverages and tobacco	296	6.6		21	3.8		13	2.1	1.4	1.0	358						77		967	1 725	77	Food, beverages and tobacco
	107	2.9		22	1.9		13	2.1	1.4	2.9	134						19		770	1 056	19	Pulp, paper and printing
Pulp, paper and printing		0.1		4.1				2.2			134											
Wood and wood products	2.0				0.5		3.1		0.1	0.3							28		120	169	28	Wood and wood products
Textiles and leather	43	4.7		13	2.2		7.4	2.8	0.7	0.2	232						16		1 139	1 448	16	Textiles and leather
Non-specified industry	0.5	11		5.2	0.8		3.2	0.3	0.9		15						1.7		374	408	1.7	Non-specified industry
Transport sector	21			10 423	4 269	780	4 638	682	54		1 248						215		735	12 641	215	Transport sector
Domestic air transport				780		780														780		Domestic air transport
Road				7 436	3 862		3 5 1 7	4.0	54		1 248						215		241	9 140	215	Road
Rail	21			180	5.8		172	2.1											332	533		Rail
Inland waterways				1 399	92		640	668												1 399		Inland waterways
Non-specified transport				628	309		310	8.7											162	790		Non-specified transport
Other sector	2 341	86		3 806	1 090		1 166	6.8	1 444	100	2 777						573		12 341	21 923	573	Other sector
Residential	1 171	66		1 344					1 343	0.9	2 249						340		6 671	11 841	340	Residential
Commerce and public services	331	18		70			7.3	4.2	48	10	288						14		1 888	2 610	14	Commerce and public services
Agriculture	388	0.4		866			736	0.4	4.8	5.1	8.3						193		634	2 090	193	Agriculture
Fishery					3						2.0										.30	Fishery
Non-specified	451	1.6		1 526	970		422	2.3	48	83	231						25		3 147	5 382	25	Non-specified
Non-energy	3 5 1 4			7 227			3.4		793	6 3 1 8	464						23		0 141	12 662	23	Non-energy
Tron onergy	3314	1 43/		1 221	- 11		3.4	102	133			and and								12 002		Horrenergy
Spatricity concepted (CMA)	5402.741			0.540						Elect	ricity and hea		A17 775		427 275	762 672	117.004	20.055		0040 713	2650.025	Electricity appointed (CMA)
Electricity generated (GWh)	5492 741			8 548								1352 195			427 275	762 672	117 894	29 955		8848 712	2660 036	Electricity generated (GWh)
Electricity plants	5492 741			8 548							239 656	1352 195	417 775		427 275	762 672	117 894	29 955		8848 712	2660 036	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)	8 428			239							741						299	136		9 843	299	Heat generated (PJ)
Heat plants	8 428			239							741						299	136		9 843	299	Heat plants
CHP plants	1																					CHP plants

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

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

Energy balance table of China

2021

											Petajoules											
		Carl	Caude ail			Petrole	um products										Other		Electricit : d		Total	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear G	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	84 784		8 327								7 735	4 682	4 446		1 173	2 362	2 721	493		116 722	10 938	Production
mport	5 764	38	21 475	2 853	15	68	33	578	1 245	914	6 242								21	36 393		lm port
xport	- 64	- 184	- 109	-2 727	- 627	- 370	- 735	- 821	- 50	- 124	- 206								- 73	-3 363		Export
ternational marine bunkers				- 287			- 19	- 268												- 287		International marine bunkers
nternational aviation bunkers				- 94		- 94														- 94		International aviation bunkers
Stock changes	- 903	63	582	-1 345	- 114	9.1	84	23	- 29	-1 318										-1 603		Stock changes
otal primary energy supply	89 580	- 83	30 275	-1 600	- 726	- 387	- 636	- 488	1 166	- 529	13 771	4 682	4 446		1 173	2 362	2 721	493	- 51	147 769	10 938	Total primary energy supply
ransfers				-5 974	- 19		- 33	-1 098	- 425	-4 399										-5 974		Transfers
otal transformation sector	-72 491	8 119	-30 072	34 774	6 929	1 639	7 181	2 4 1 7	2 397	14 212	-2 658	-4 682	-4 446		-1 173	-2 362	-1 118	- 502	39 247	-37 362	-9 335	Total transformation sector
Main activity producers	-53 608	-2 107	-5.2	- 378			- 14	- 112	-4.6	- 247	-2 563	-4 682	-4 446		-1 173	-2 362	-1 118	- 502	39 247	-33 697	-9 335	Main activity producers
Autoproducers																						Autoproducers
Gas processing	- 826	- 145		- 24					-2.4	- 22	- 95									-1 090		Gas processing
Petroleum refineries			-30 066	35 176	6 929	1 639	7 195	2 529	2 4 0 4	14 480										5 110		Petroleum refineries
Coal transformation	-18 057	10 372																		-7 685		Coal transformation
Other transformation																						Other transformation
osses & own use	- 470	- 33	- 198	-1 516	- 12		- 114	-0.7	-1.6	-1 389	- 803						- 29		-5 544	-8 594	- 29	Losses & own use
iscrepancy	-1 794	542	82	- 937	- 61	54	- 79	36	- 141	- 746	- 109						-0.3	9.1	-1 433	-3 641	-0.3	Discrepancy
otal final consumption	14 825	8 545	87	24 747	6 110	1 305	6 3 1 9	866	2 996	7 150	10 200						1574		32 219	92 197	1 574	Total final consumption
otal final energy consumption	11 758	7 648	87	17 935	6 109	1 305	6 314	852	2 436	917	9 840						1 574		32 219	81 062	1 574	Total final energy consumption
ndustry sector	8 856	7 566	87	2 695	294		567	103	911	820	5 724						312		20 137	45 378	312	Industry sector
Mining and quarrying	168	75		109	1.9		106	0.4		0.7	35						2.9		478	867	2.9	Mining and quarrying
Construction	95	0.6		531	243		225	17	6.9	39	12						7.7		428	1 074	7.7	Construction
Iron and steel	2 146	5 086		32	0.9		20	0.1	4.1	6.5	578						11		2 741	10 594	11	Iron and steel
Chemical & petrochemical	353	1 469	87	1 468	6.7		28	26	861	547	1 896						118		5 669	11 060	118	
Non-ferrous metals	487	157	0.1	104	0.9		13	5.5	1.4	83	332						2.6		2 937	4 019	2.6	'
Non-metallic minerals	5 014	503	0.2	316	4.7		107	49	23	133	1 107						29		1 552	8 521	29	
Transportation equipment	11	3.4		23	6.6		13	0.8	1.5	1.0	238						0.8		582	857	0.8	
Machinery	62	250		62	19		30	2.2	6.7	5.1	688						5.9		2 471	3 538	5.9	
Food, beverages and tobacco	344	6.7		19	4.2		11	1.4	1.5	0.9	316						74		888	1 647	74	Food, beverages and tobaco
Pulp, paper and printing	118	2.5		17	2.5		7.6	1.2	1.4	3.8	166						18		703	1 024	18	
Wood and wood products	6.4	0.1		3.6	0.7		2.2		0.1	0.6	12						25		129	176	25	1711 1 3
Textiles and leather	52	4.3		7.4	2.8		3.3	0.3	0.7	0.3	321						17		1 199	1 601	17	Textiles and leather
Non-specified industry	0.9	9.2		4.1	0.8		1.3	0.5	1.9	0.1	24						1.6		360	400	1.6	Non-specified industry
Fransport sector	27	32		11 316	4 615	1 305	4 597	741	58	0.1	1 340						358		717	13 759	358	
Domestic air transport				1 305	4015	1 305	4 331	741	50		1 340						550			1 305	330	Domestic air transport
Road				7 723	4 175	1 303	3 486	4.3	58		1 340						358		224	9 645	358	
Rail	27			179	6.3		170	2.3	30		1 340						330		335	541	330	Rail
Inland waterways	21			1 458	99		634	725											333	1 458		Inland waterways
Non-specified transport				651	335		307	9.4											158	809		Non-specified transport
Other sector	2 875	83		3 923	1 200		1 150	7.7	1 468	97	2 776						904		11 364	21 925	904	Other sector
Residential	1 265	61		1 374	1 200		1 150	1.1	1 373	1.2	2 2 6 7						644		6 001	11 611	644	Residential
Commerce and public services	374			65			5.6	4.8	48	6.0	275						14		1 797	2 539	14	
Agriculture	403			848	121		717	0.4	3.4	5.3	6.2						208		581	2 052	208	
Agriculture Fishery	403	0.1		040	121		/1/	0.4	5.4	5.3	0.2						208		201	2 052	208	Agriculture Fishery
Non-specified	833	1.6		1 636	1 079		427	2.5	43	84	227						38		2 987	5 723	38	•
<u> </u>	3 067	897		6 812			4.3	2.5	560	6 233	359						38		2 901	11 135	38	
on-energy	3 067	69/		0 012	U. /		4.3	14	000											11 135		Non-energy
	I									Electr	icity and heat										1	
ectricity generated (GWh)	5449 548			11 162								1338 999	407 523		325 756	656 102	70 921	27 919		8534 248	2391 778	, ,
Electricity plants	5449 548			11 162							246 318	1338 999	407 523		325 756	656 102	70 921	27 919		8534 248	2391 778	2.
CHP plants																						CHP plants
eat generated (PJ)	7 270			226							662						225	141		8 524	225	0 ()
Heat plants	7 270			226							662						225	141		8 524	225	·
CHP plants																						CHP plants

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

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

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Major energy indicators of China

	4000	400.5	20.00	2004	2002	2002	200.4	20.05	2006	2007	200.9		etajoules	2011	2042	2042	2044	2045	2046	2047	20.49	2010	2020	2024	2022	
Total	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Primary energy supply Production	28 172 30 548	36 860 37 588	39 83 1 39 35 2	41 946 41 849	45 146 43 897	52 979 50 607	61 452 57 814	70 155 63 932	76 2 16 69 141	82 165 74 165	86 463 78 263	93 644 83 238	101 424 88 816	112 716 98 428	116 632 100 562	119 462 102 798	117 689 99 196	118 102 98 214	118 057 92 698	122 599 96 381	128 42 6 101 79 7	134 068 106 661	138 392 109 513	147 769 116 722	154 373 127 656	P rimary energy supply P roduction
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	35 165	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	-2 008	-2 436	-3 064	-3 234	-3 397	-3 626	-3 303	-3 363	-3 156	Export
Final energy consumption Industry	21 842 13 924	22 986 14 565	23 082 13 790	24 060 14 424	25 506 15 174	29 352 17 431	35 455 21 574	40 13 5 25 08 7	43 572 27 269	47 513 30 052	50 375 32 219	53 195 34 263	57 764 37 470	65 265 43 131	70 023 46 268	70 520 45 026	71 568 43 083	72 8 19 42 4 69	72 813 41 153	73 785 40 855	75 200 41 57 1	75 901 42 012	76 139 42 384	81 062 45 378	81 091 46 527	Final energy consumption Industry
Transport	1 245 4 432	1 623 4 115	2 960 3 596	3 029 3 693	3 303 3 875	3 943 4 316	4 800 4 899	5 205 5 307	5 679 5 729	6 137 6 150	6 630 6 202	6 858 6 466	7 603 6 788	8 414 7 217	9 310 7 541	10 016 8 074	11 242 8 593	11 968 9 153	12 322 9 819	12 935 10 374	13 368 10 700	13 524 10 644	12 880 11 149	13 759 11 611	12 641 11 841	Transport
Residential Commerce & public services	278	321	567	621	688	822	951	1 034	1 126	1 226	1 230	1 333	1 3 7 9	1 580	1 691	1 809	2 116	2 2 1 2	2 307	2 339	2 349	2 456	2 412	2 539	2 610	Residential Commerce & public services
Others	1 963	2 361	2 170	2 294	2 465	2 839	3 231	3 502	3 7 6 8	3 948	4 094	4 27 5	4 524	4 923	5 214	5 595	6 53 5	7 018	7 211	7 283	7 211	7 2 6 4	7 314	7 775	7 472	Others
Coal and peat Primary energy supply	22 321	29 027	28 617	30 197	32 356	38 746	44 752	52 608	57 187	61 797	64 318	70 196	73 987	83 675	84 480	85 876	80 917	78 836	75 956	77 159	79 621	81 745	83 866	89 580	95 482	C oal and peat Primary energy supply
P ro ductio n	23 636 50	29 630 41	30 05 1 5 4	32 085 66	33 714 280	39 959 276	46 224 463	51 557 654	56 0 14 9 6 3	60 192 1 266	63 237 1 044	67 83 5 3 07 3	71 214 3 963	80 110 4 758	80 832 4 673	81 823 5 185	76 788 5 193	74 753 3 639	68 742 4 557	71 438 4 831	75 305 5 03 0	78 453 5 345	79 809 5 414	84 784 5 764	93 886 5 237	Production
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	- 140	-130	- 216	- 200	- 122	- 149	- 79	- 64	- 99	Import Export
Transformation sector	-9 135	-15 412	-18 208	-19 465	-21 519	-26 104	-29 081	-33 778	-38 539	-41 555 30 674	-42 376	-45 812	-46 796	-52 701	-53 039	-57 340	-58 449	-56 125	-57 057	-59 426	-63 217	-65 876	-66 827	-72 491	-75 818	Transformation sector
Power generation	-6 461	-10 770 13 323	-13 829	-14 7 15	-16 600	-19 872 11 359	-22 149 14 506	-25 081	-28 539 17 177	-30 674	-31 603 19 356	-34 085	-33 092 21 101	-37 373 24 572	-37 570	-40 341 24 204	-41 064	-39 427 21 770	-40 480 19 570	-43 116	-45 93 6 14 63 5	-47 279 12 723	-48 022 12 482	-53 608 11 758	-55 604	Power generation
Final energy consumption Industry	13 916 8 349	8 777	9 193 6 286	9 4 6 3 6 5 0 6	9 644 6 573	7 947	10 773	16 31 6 12 39 3	13 153	18 207 14 168	15 321	20 440 16 334	17 110	20 355	26 562 22 406	19 961	21 913 16 647	16 347	14 199	17 473 12 404	10 505	9 1 1 9	9 054	8 856	11 611 9 248	Final energy consumption Industry
Transport	464 3 933	283 3 164	189 1806	181 1790	183 1 782	206 1 897	179 2 057	175 2 118	167 2 137	151 2 068	144 1 992	138 1 99 7	130 1959	135 1 998	123 1 913	122 1 900	126 1 975	111 2 046	91 2 011	79 1 989	72 1 634	64 1 373	54 1 332	27 1 265	21 1 171	Transport
Residential Commerce & public services	241	222	331	360	401	474	546	596	634	671	699	722	689	783	799	835	859	880	873	787	615	560	514	374	331	Residential 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	2 306	2 386	2 396	2 214	1 808	1 608	1 527	1 236	839	Others
Coal and peat products Primary energy supply	- 69	- 347	- 367	- 475	- 405	- 525	- 591	- 407	- 507	- 633	- 91	109	14	- 385	279	- 711	- 311	-231	145	161	- 428	- 220	34	- 83	- 414	C oal and peat products Primary energy supply
P ro ductio n Import							0.2	0.2				4.5	3.1	3.3	2.2	1.0	0.7	1.0	1.0	0.5	2.6	15	85	38	15	Production Import
Export	- 37	- 252	- 433	- 394	- 386	- 419	- 427	- 364	-413	- 437	- 348	- 16	- 95	- 94	- 29	- 133	- 245	-277	- 291	- 231	- 279	- 186	- 100	- 184	- 254	Export
Transformation sector	1 270 - 26	2 802 - 30	2 173 - 32	2 2 1 4 - 2 8	2 139 - 29	2 420 - 25	2 878 - 62	3 758 -86	3 9 16 - 171	4 179 - 146	4 213 - 250	4 297 - 250	6 9 13 - 8 2 2	8 184 - 965	8 485 -1 040	9 306 -1 233	9 79 1 -1 34 7	8 8 6 0 -1 3 4 0	8 975 -1 404	8 209 -1 438	8 484 -1 694	8 9 13 -1 8 6 6	8 160 -2 185	8 119 -2 107	9 191 -2 046	Transformation sector
Power generation	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	7 940	7 5 1 6	7 711	7 457	7 649	8 2 4 9	7 648	7 648	7 109	Power generation
Final energy consumption Industry	1 660	1 377	1 197	1 159	1 182	1 261	1 423	2 272	2 3 2 2	2 582	3 015	3 265	5 2 1 5	6 188	6 781	6 746	7 734	7 3 3 6	7 539	7 318	7 497	8 094	7 536	7 566	7 023	Final energy consumption Industry
Transport Residential	1.2 39	2.9 81	3.3 228	3.4 228	3.3 232	3.2 253	0.5 269	0.3 271	0.2 2.59	0.2 250	0.1 194	177	205	183	180	0.6 158	0.8 159	0.9 134	0.9 129	1.7 99	0.1 95	0.1 93	79	61	66	Transport Residential
C ommerce & public services	3.0	8.5	14	16	16	18	20	25	25	28	7.4	7.1	8.6	8.3	8.6	18	28	25	23	23	22	40	24	14	18	C ommerce & public services
Others Crude oil & NGL	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	2.0	Others Crude oil & NGL
Primary energy supply	4 928	6 194	8 953	9 0 1 7	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	29 330	P rimary energy supply
P ro ductio n Import	5 791 122	6 282 716	6 824 2 942	6 8 6 5 2 5 2 3	6 992 2 906	7 101 3 811	7 363 5 138	7 593 5 310	7 7 3 6 6 0 7 8	7 801 6 831	7 973 7 490	7 934 8 527	8 5 0 0 9 9 5 1	8 494 10 625	8 687 11 347	8 789 11 796	8 852 12 91 1	8 983 14 046	8 360 15 952	8 018 17 562	7 927 19 338	7 997 21 172	8 155 22 693	8 327 21 475	8 571 21 279	Production Import
E xport	-1 004	- 763	- 431	- 316	- 321	- 341	- 230	- 338	-265	- 163	- 177	- 212	- 127	- 105	- 102	- 68	-25	-120	- 123	- 204	- 110	- 34	- 69	- 109	- 86	Export
Transformation sector	-4 650 -4 589	-6 037 -6 009	-8 543 -8 501	-8 612 -8 572	-9 136 -9 098	-10 135 -10 091	-11 730 -11 722	-12 177 -12 159	-13 008 -12 998	-13 753 -13 746	-14 454 -14 450	-15 540 -15 537	-17 533 -17 530	-18 115 -18 108	-19 237 -19 231	-20 017 -20 012	-21 196 -21 193	-22 572 -22 567	-23 637 -23 631	-24 699 -24 693	-26 22 1 -26 21 5	-28 013 -28 006	-28 906 -28 899	-30 072 -30 066	-29 178 -29 178	Transformation sector
Petroleum refineries Petroleum products	-4 303	-0 003	-0 30 1	-0 372	-5 050	-10 051	-11 /22	-12 133	-12 330	-13 /40	-14 430	-13 337	-17 330	-10 100	-19231	-20 012	-21 193	-22 307	-23 031	-24 093	-20 213	-20 000	-20 033	-30 000	-29 170	P etroleum refineries P etroleum products
Primary energy supply Import	- 136 196	330 730	299 1 042	451 1 182	617 1 264	762 1 609	1 029 1 983	706 1 732	740 1882	563 1 797	316 1 927	- 218 1 976	- 48 2 021	197 2 239	- 138 2 152	- 83 2 179	- 203 1 924	47 2 2 0 3	- 253 2 298	- 102 2 595	- 533 2 836	- 913 2 723	-1 310 2 642	-1 600 2 853	- 561 2 991	P rimary energy supply Import
E xport	- 294	- 217	- 421	- 473	- 508	- 635	- 556	- 694	-629	- 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	-2 426	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	33 413	Transformation sector
Power generation Petroleum refineries	- 607 4 491	- 713 5 881	- 633 8 218	- 654 8 299	- 649 8 728	- 717 9 636	- 864 11 186	- 691 11 641	- 553 12 427	- 462 13 174	- 375 13 667	- 318 14 770	- 389 16 552	- 326 17 172	- 302 18 155	- 275 18 995	- 298 23 599	-285 25 329	- 302 26 604	- 262 28 137	- 278 29 673	- 287 31 860	- 371 33 684	- 378 35 176	- 367 33 805	Power generation Petroleum refineries
Final energy consumption	3 036	4 044	6 317	6 4 3 7	6 892	7 771	9 130	9 428	10 119	10 539	10 928	11 141	12 295	12 991	13 536	14 332	14 99 5	16 193	16 527	17 158	17 67 1	17 638	16 960	17 935	17 137	Final energy consumption
Industry	1 405 735	1 365 1 261	2 191 2 584	2 221 2 635	2 343 2 878	2 486 3 434	2 727 4 267	2 587 4 63 0	2 679 5 056	2 628 5 448	2 764 5 834	2 832 5 948	3 191 6 567	3 071 7 183	2 700 7 969	2 674 8 515	2 177 9 558	2 3 5 9 10 1 4 9	2 332 10 374	2 358 10 825	2 594 11 195	2 828 11 062	2 755 10 446	2 695 11 316	2 909 10 423	Industry
Transport Residential	125	296	462	462	504	575	690	679	764	831	737	760	781	818	833	939	1 104	1 293	1 496	1 632	1 592	1 444	1 442	1 374	1 344	Transport Residential
C ommerce & public services Others	4.2 768	15 1 107	39 1 04 1	41 1 079	42 1 125	55 1 221	58 1 388	63 1 47 0	68 1 5 5 3	79 1 553	37 1 555	48 1 553	55 1 701	52 1 867	54 1 980	53 2 151	61 2 094	60 2 3 3 1	59 2 266	66 2 276	60 2 230	62 2 242	59 2 257	65 2 484	70 2 392	C ommerce & public services Others
Gas																										Gas
Primary energy supply Production	570 570	669 669	897 1 013	1 0 1 7 1 1 3 0	1 098 1 217	1 235 1 305	1 454 1 545	1 727 1 838	2 109 2 182	2 633 2 580	3 043 2 992	3 342 3 177	4 034 3 569	4 968 3 925	5 582 4 121	6 360 4 503	6 957 4 850	7 174 5 016	7 754 5 100	8 911 5 516	10 49 0 5 9 6 8	11 397 6 564	12 190 7 172	13 771 7 735	13 584 8 201	P rimary energy supply P roduction
Import									35	150	172	284	615	1 162	1 568	1 959	2 205	2 280	2 780	3 527	4 648	4 9 6 7	5 210	6 242	5 618	Import
Export	1.4	20	- 117 308	- 113 402	- 119	- 70 467	- 91 527	- 111 645	-108 753	- 97 1.050	- 121	- 120	- 150 730	- 119	- 108 957	- 102 -1 055	-97	-121	- 126 1 390	- 132 1 501	- 125	- 134	- 192 2 202	- 206 2.658	- 217	Export Transformation and or
Transformation sector Power generation	- 14 - 37	20 - 39	- 151	- 159	456 - 154	- 156	- 224	- 405	-527	1 050 - 634	1 065 - 654	1 149 - 899	- 739 - 798	- 896 - 947	- 957 - 982	-1 055 -1 062	- 964 -1 140	-1 214 -1 410	-1 389 -1 539	-1 591 -1 667	-1 916 -1 965	-2 034 -2 013	-2 293 -2 197	-2 658 -2 563	-2 589 -2 634	
Final energy consumption	561	352	825	984	1 099	1 217	1 524	1 864	2 281	2 981	3 334	3 69 5	2 5 6 6	3 228	3 580	4 098	4 32 1	4 674	5 060	6 070	7 35 9	8 151	8 643	9 840	9 766	22
Industry Transport	481 1.9	256 2.5	637 15	748 23	824 43	874 51	1 071 75	1 33 6 11 5	1 6 1 0 1 4 2	2 087 175	2 261 235	2 49 6 30 4	1 102 362	1 480 477	1 653 531	1 958 614	1 862 751	2 029 842	2 282 899	3 012 1 003	4 07 4 1 02 1	4 527 1 229	4 740 1 296	5 724 1 340	5 742 1 248	
Residential	73	86	156	190	207	230	289	336	430	591	690	712	902	1 038	1 124	1 241	1 366	1 4 3 0	1 486	1 630	1 806	1 930	2 149	2 267	2 249	Residential
C ommerce & public services Others	0.8 4.5	2.1 5.6	14 2.8	20 3.1	24	27 35	37 53	43 34	52 48	67 60	70 78	95 88	101 99	129 103	148 125	150 135	185 157	200 173	209 184	224 202	238 220	247 218	246 212	275 234	288 239	
					F 05.																					E lectricity
E le ctricity	2 236	3 668 2 896	4 880 4 01 1	5 3 3 1 4 2 6 0	5 954 4 817	6 878 5 689	7 932 6 464	9 00 1 7 3 7 0	10 3 17 8 5 3 1	11 814 9 803	12 481 10 044	13 373 10 738	15 146 11 995	16 967 13 801	17 955 14 014	19 600 15 289	20 860 15 576	20 932 15 163	22 079 15 694	23 776 16 790	25 798 18 01 6	27 012 18 503	28 005 18 883	30 723 20 545	31 855 20 667	Power generation Thermal
	1 780	2 000			1 037	1 021	1 273	1 429	1 5 6 9	1 747	2 107	2 216	2 600	2 516 311	3 140 351	3 313 402	3 862 477	4 0 69 6 1 5	4 263 768	4 312 893	4 43 4 1 06 0	4 6 9 6	4 879	4 820	4 868	Hydro
Electricity Power generation Thermal Hydro	1 780 456	686	801	999		155	100	101	107							407	4//	כום	/ DO						1 504	Musless
Ele ctricity Power generation Thermal			801 60 8.1	999 63 8.9	90 10	156 11	182 13	191 10	197 20	224 40	246 84	252 166	266 285	338	451	596	945	1 085	1 355	1 780	2 288	1 254 2 559	1 319 2 924	1 467 3 891	1 504 4 816	
Electricity Power generation Thermal Hydro Nuclear	456 1 767	686 46 40 2 760	60 8.1 3 729	63 8.9 4 054	90 10 4 508	11 5 318	13 6 185	10 7 173	20 8 3 2 9	40 9 628	84 10 188	166 10 938	285 12 420	338 13 895	451 14 838	596 16 143	945 17 32 1	1 085 17 393	1 355 18 333	1 780 19 857	2 288 21 603	2 559 22 675	2 924 23 643	3 891 26 114	4 816 27 186	
Electricity Power generation Thermal Hydro Nuclear Others Final energy consumption Industry	456 1 767 1 302	686 46 40 2 760 1 966	60 8.1 3 729 2 539	63 8.9 4 054 2 750	90 10 4 508 3 100	11 5 318 3 633	13 6 185 4 261	10 7 173 4 946	20 8 3 2 9 5 7 9 2	40 9 628 6 707	84 10 188 7 025	166 10 938 7 426	285 12 420 8 611	338 13 895 9 670	451 14 838 10 186	596 16 143 10 998	945 17 321 11 818	1 085 17 393 11 553	1 355 18 333 11 863	1 780 19 857 12 797	2 288 21 603 13 643	2 559 22 675 14 091	2 924 23 643 14 650	3 891 26 114 15 934	4 816 27 186 16 126	Others Final energy consumption Industry
Electricity Power generation Thermal Hydro Nuclear Others Final energy consumption	456 1 767	686 46 40 2 760	60 8.1 3 729	63 8.9 4 054	90 10 4 508	11 5 318	13 6 185	10 7 173	20 8 3 2 9	40 9 628	84 10 188	166 10 938	285 12 420	338 13 895	451 14 838	596 16 143	945 17 32 1	1 085 17 393	1 355 18 333	1 780 19 857	2 288 21 603	2 559 22 675	2 924 23 643	3 891 26 114	4 816 27 186	Others Final energy consumption

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	2022	
Population (million) *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	1 412.18	Population (million) *1
Gross domestic product *3																										Gross domestic product "3
Real term, billion USD (constant 2015)	1 027	1 8 3 1	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 9 2 6	9 620	10 334	11 062	11 819	12 640	13 493	14 296	14 61 6	15 851	16 325	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 8 4 0	8 9 5 5	9 8 2 0	10 742	11 885	13 020	14 044	15 135	16 258	17 403	18 595	19887	21 229	22 493	22 996	24 939	29 683	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 5 5 0	4 5 9 4	5 102	6 087	7 552	8 532	9 5 7 0	10 476	11 062	11 233	12 3 10	13 895	14 280	14 688	17820	17 882	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	4319	4712	5 129	5 647	6 153	6 5 9 2	7 0 5 6	7 533	8 016	8 517	9 0 5 3	9 619	10 156	10 358	11 223	11 560	Real term (constant 2015 USD)
GDP. PPP (constant 2017 USD)	1 424	2 3 9 1	3 452	3 712	4 024	4 401	4 817	5 33 5	5 980	6 795	7 4 1 3	8 069	8 885	9 680	10 371	11 102	11 851	12 612	13 399	14 244	15 134	15 978	16 297	17 657	21 019	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 3 0 1	7 020	7 636	8 016	8 094	8 8 1 7	9 905	10 144	10 409	12 618	12 663	Nominal (current USD)
Nominal GDP & its components (billion of current CNY) 1																										Nominal GDP & its components (billion of current CNY)
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	120 472	Gross domestic product
Household final consumption expenditure	944	2 807	4 686	5 046	5 467	5 869	6 572	7 415	8 2 8 4	9 823	11 265	12 312	14 147	17 039	19 058	21 248	23 624	26 020	28 867	32 069	35 412	38 719	38 719	43 802	45 047	Household 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 4 1 9	10 179	11 172	12 214	13 583	15 201	16 544	17 363	18 167	19 336	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	50 483	Gross fixed capital formation
Stock change	192	399	100	231	133	187	375	172	260	699	1 0 2 4	538	1 083	1 366	1 0 6 4	1 1 1 1 5	1 266	786	805	959	874	423	893	1 3 6 6	1 496	Stock change
Exports of goods and services	235	1 101	2 095	2 252	2 756	3 708	5 027	6 337	7 9 0 7	9 571	10 408	8 626	11 204	12 964	13 730	14 586	15 130	14 710	14 618	16 385	17 569	18 162	18 838	22 920	25 048	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 2 4 2	7 2 2 7	7 984	7 122	9 698	11 795	12 266	13 131	13 769	12 475	12 920	14 927	16 964	17 244	16 388	19 948	21 155	Imports of goods and services
Real GDP & its components (billion of 2019 CNY) 1																										Real GDP & its components (billion of 2019 CNY) 1
Gross Domestic Product	6 3 9 8	11 405	17 251	18 689	20 396	22 443	24 713	27 529	31 031	35 447	38 868	42 521	47 043	51 536	55 589	59 906	64 354	68 886	73 604	78 717	84 030	89 030	91 024	98 713	113 205	Gross Domestic Product
	N.A.	4 1 7 9	6 436	6 885	7 514	7 976	8 621	9 572	10 550	12 003	13 057	14 362	16 028	18 439	20 137	21 921	23 937	26 020	28 346	31 048	33 632	35 795	34 900	39 482	45 047	
Household final consumption expenditure General government final consumption expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	Household final consumption expenditure 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.	NA.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	NA.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	NA.	N.A.	N.A.	NA.	NA.	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	1
Imports of goods and services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	
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	112	10.7	10.1	9.6	9.3	8.9	8.6	8.4	8.1	7.9	7.6	7.4	7.5	7.4	7.7	
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	38.2	rightenia e, rianel, and ereell,
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	54.1	Services. etc.
Industrial production index (2010=100) 14	9.3	16.1	112	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	NA.	N.A.	, , , , , , , , , , , , , , , , , , ,
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	3 544.4	1
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	2 706.5	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	665.0	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 <i>A</i>	148.2	236.0	293.0	191.3	188.7	24.1	102.9	248.8	352.9	443.4	Current account
Overall balance	15.3	40.3	22.5	52.2	67.8	97.9	177.1	227.7	281.1	447.A	460.7	441.7	524.7	401.6	183.6	494.3	184.7	-141.1	-225.1	298.1	196.2	109.9	187.6	322.6	185.7	Overall balance
Foreign exchange rate (CNY/USD) 1	4.78	8.35	8.28	8.28	828	828	828	8.19	7.97	7.61	6.95	6.83	6.77	6.46	6.31	6.20	6.14	6.23	6.64	6.76	6.62	6.91	6.90	6.45	6.74	Foreign exchange rate (CNY/USD) 11
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	421	4.17	4.18	3.79	PPP conversion factor. GDP (CNY/USD) *1
Price Indices																										Price Indices
**	29.5	53.8	58.1	59.3	59.7	61.2	65.5	68.0	70.7	76.2	82.1	82.0	87.6	94.7	96.9	99.0	100.0	100.0	101.4	105.7	109.4	110.8	111.4	116.4	106.4	
GDP Deflator (2015=100) ¹⁴	101.3	111.8	100.0	96.0	95.1	99.5	103.2	102.0	100.2	100.3	104.0	92.0	100.0	106.4	104.6	102.6	100.7	95.4	99.1	105.7	109.1	108.7	106.7	108.5	112.8	GDP Deflator (2015=100) ¹⁴ Produces Price Index (2000=100) ¹³
Producer Price Index (2000=100) *3 Consumer Price Index (2010=100) *2	40.4	74.1	81.0	81.6	81.0	81.9	85.0	86.5	87.9	92.2	97.6	96.9	100.0	105.6	108.3	111.2	113.3	114.9	117.2	119.1	121.6	125.1	128.1	129.4	131.9	Producer Price Index (2000=100) ¹³ Consumer Price Index (2010=100) ¹²
10	707	,4.1	01.0	01.0	01.0	01.3	03.0	00.3	01.5	<i>7.2</i>	51.20	503	100.0	105.0	1003	1112	1155	114.5	117.2	112.1	12120	123.1	120.1	1278	131.3	
Growth rate (%)	3.0	44.0	0.5	0.2	0.4	100	101	44.6	12.7	442	^7		10.0	0.0	7.0	7.0	7.	7.0					2.2	0.6	2.0	Growth rate (%) '3
Real GDP ¹⁴	3.9	11.0	8.5	8.3 0.7	9.1 0.7	10.0 0.6	10.1	11.4	12.7	14.2	9./	9.4	10.6	9.6 0.5	7.9 0.7	7.8 0.7	7.4	7.0 0.6	6.8	6.9	6.7	0.4	2.2	8.4 0.1	0.0	Real GDP ¹⁴
Population **	1.5	1.1	0.8	0./	0.7	0.0	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.0	0.6	0.6	0.5	0.4	0.2	0.1	0.0	Population ¹⁴
Price 14	-12.2	-3.8	5.3	-4.0	-0.9	4.6	3.7	-1.1	-1.8	0.1	3.7	-11.5	8.7	6.4	-1.7	-1.9	-1.9	-5.2	3.9	6.3	3.5	-0.3	-1.9	1.6	4.0	Price 14
Producer prices S	3.1	16.8	0.3	-4.0	-0.9	1.1	3.8	1.8	1.6	4.8	5.9	-0.7	3.2	5.6	2.6	2.6	1.9	-3.2	2.0	1.6	2.1	2.9	2.4	1.0	2.0	1 Todacci piloco
Consumer prices	3.1	10.8	U.3	0.7	-0./	1.1	3.6	1.6	1.0	4.6	3.9	-0.7	3.2	3.0	2.0	2.0	1.9	1.4	2.0	1.0	2.1	2.9	2.4	LU	2.0	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

Note

: CNY means Chinese Yuan, 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)

Hong Kong, China

Energy balance table of Hong Kong, China

2022

											Petajoules										
		01	Courts of			Petrole	eum products									Othor		Electricity on d		Tatal	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil		Other	Gas	Hydro	Nuclear Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat ³	Total	Total renewables	
oduction														0.8		5.5			6.3	6.3	Production
oort	164			466	19	108	107	207	13	11	187					0.2		44	862	0.2	Import
port				-3.3	-0.3		-2.8	-0.2											-3.3		Export
rnational marine bunkers				- 242	0.0		- 34	- 208	-0.2										- 242		International marine bunkers
rnational aviation bunkers				- 112		- 112		200	0.2										- 112		International aviation bunkers
ock changes	- 14			-5.4	-0.9	4.6		0.8	-1.6	1.4									- 19		Stock changes
al primary energy supply	150			103	-0.9	0.3		0.0	-1.0	1.4	187			0.8		5.7		44	491	6.4	
7 07 117	150			103	10	0.3	01		- 11	12	107			0.0		5.1		44	491	0.4	Transfers
nsfers	450			47					0.4	40	400							404	000		
al transformation sector	- 150			- 17			-2.4		-2.1	- 12	- 163			-0.8		-3.2		131	- 203		I
fain activity producers	- 150			-4.5			-2.4		-2.1		- 175					-0.5		129	- 201	-0.5	Main activity producers
utoproducers														-0.7		-2.0		1.7	-1.0	-2.7	Autoproducers
as processing				- 12						- 12	12										Gas processing
etroleum refineries																					Petroleum refineries
oal transformation																					Coal transformation
ther transformation																-0.7			-0.7	-0.7	Other transformation
sses & own use																		- 13	- 13		Losses & own use
screpancy				-9.7	5.3		- 15											-1.0	- 11		Discrepancy
tal final consumption				76	23	0.3			9.2	0.1	24					2.5		161	265		· · · ·
tal final energy consumption				76	23	0.3			9.2	0.1	24					2.5		161	265		
				3.2	0.2	0.3			0.1	U. I	1.3					0.1		7.0	12		
ndustry sector				3.2	0.2	0.2	2.0		0.1		1.3					0.1		7.0	12	0.1	ļ
Mining and quarrying																					Mining and quarrying
Construction																					Construction
Iron and steel																					Iron and steel
Chemical & petrochemical																					Chemical & petrochemical
Non-ferrous metals																					Non-ferrous metals
Non-metallic minerals																					Non-metallic minerals
Transportation equipment				0.2		0.2													0.2		Transportation equipment
Machinery																					Machinery
Food, beverages and tobacco																					Food, beverages and tobac
Pulp, paper and printing																					Pulp, paper and printing
Wood and wood products																					Wood and wood products
Textiles and leather																					Textiles and leather
Non-specified industry				3.1	0.2		2.8		0.1		1.3					0.1		7.0	12		Non-specified industry
ansport sector				70	23	0.1			6.2							0.2		3.1	73	0.2	Transport sector
Domestic air transport				0.1		0.1													0.1		Domestic air transport
Road				63	21		35		6.2							0.2		0.4	64	0.2	Road
Rail																		2.7	2.7		Rail
Inland waterways				7.0	1.8		5.2												7.0		Inland waterways
Non-specified transport																					Non-specified transport
Other sector				3.2			0.2		2.9	0.1	23					2.2		151	180	2.2	•
Residential				2.6			۷.۷		2.6	0.1	14					2.2		45	62		Residential
Commerce and public services				0.5			0.2		0.3		8.8					2.2		106	117		1
				0.5			0.2		0.3		0.0					2.2		0.1	0.1		
Agriculture																		0.1	U.1		Agriculture
Fishery																					Fishery
Non-specified																					Non-specified
n-energy																					Non-energy
										Electr	ricity and heat	output									
ctricity generated (GWh)	12 758			177							22 872	. 2		210		1 150			36 170	362	Electricity generated (GWh)
lectricity plants	12 758			177							22 872	2		210		1 92			36 112		
lectricity plants												-				58			58		CHP plants
CHP plants																				50	
CHP plants cat generated (PJ) Heat plants																			1	55	Heat generated (PJ) Heat plants

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

Energy balance table of Hong Kong, China

2021

											Petajoule	5										
		Coal	Crude oil			Petrol	eum products										Other	_	Electricity and		Total	
	Coal	products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil		Other products	Gas	Hydro	Nuclear (Geothermal	Solar	Wind	renewables ¹	Others ²	heat ³	Total	renewables	
Production		•						'						•	0.4		4.9			5.3	5.	3 Production
Import	172			552	21	126	144	236	14	11	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		-2.9	- 14	0.4	1.5										- 32	i	Stock changes
Total primary energy supply	153			139	21				14	12	192				0.4	***************************************	5.0	***************************************	45			
ransfers																						Transfers
otal transformation sector	- 153	1		- 16			-2.5		-1.2	- 12	- 167				-0.4		-3.0		134	- 205	-3.	
Main activity producers	- 153			-3.7			-2.5		-1.2		- 179						-0.4		133	- 204		1
Autoproducers	100			5.1			2.5		1.2		173				-0.4		-2.1		1.3	-1.3		
Gas processing				- 12						- 12	12				-0.4		-2.1		1.3	-1.3	-2.	Gas processing
				- 12						- 12	12											-
Petroleum refineries																						Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-0.5			-0.5		
osses & own use																			- 13	- 13		Losses & own use
Discrepancy				- 40	4.0		- 44												-0.4	- 40	:	Discrepancy
otal final consumption				83	25	0.2	45		13	0.1	25						2.0		165	275	2.	
otal final energy consumption				83	25	0.2	45		13	0.1	25						2.0		165	275	2.	0 Total final energy consumption
Industry sector				3.1	0.2		2.8		0.1		1.2						0.1		7.1	11	0.	1 Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				3.1	0.2		2.8		0.1		1.2						0.1		7.1	11	0.	Non-specified industry
Transport sector				77	24				9.9								0.2		3.0	80	<u></u>	
Domestic air transport				0.2	24	0.2			3.3								0.2		3.0	0.2		Domestic air transport
-				69	22		37		9.9								0.2		0.0			
Road				69	23		31		9.9								0.2		0.2	70		1
Rail																			2.8	2.8		Rail
Inland waterways				7.2	1.8		5.4													7.2		Inland waterways
Non-specified transport																					<u> </u>	Non-specified transport
Other sector				3.6			0.2		3.3	0.1	23						1.7		155	184		
Residential				2.9					2.9		14								47	65		Residential
Commerce and public services				0.6			0.2		0.4		9.1						1.7		108	119	1.	7 Commerce and public service
Agriculture																			0.1	0.1		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Ion-energy																						Non-energy
on one gy	1									- FILL	adain and the	t autout										1 . on onorgy
	1 45.00									Elect	tricity and hea											d =
lectricity generated (GWh)	13 497			200							23 100	2			120		1 141			37 061		
Electricity plants	13 497	,		200							23 100	2	2		120		1 89			37 010		
CHP plants																	52			52	. 5	p
leat generated (PJ)																				1		Heat generated (PJ)
Heat plants																				1		Heat plants
CHP plants																						CHP plants

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

Major energy indicators of Hong Kong, China

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
al																										Total
rimary energy supply Production	392	457	579	580	554	571	548 3.6	590 3.4	570 3.9	585 4.3	575 3.3	560 2.3	559 2.3	581 2.6	579 2.8	590 2.7	602 2.7	590 4.1	605 4.6	600 4.6	600 4.6	599 4.6	535 4.6	534 5.3	491 6.3	Primary energy supply Production
Import	567	973	896	931	959	983	1 086	1 055	1 1 1 1 9	1 188	1 103	1 274	1 333	1 278	1 215	1 231	1 186	1 3 0 3	1 318	1 347	1 365	1 3 1 3	1 014	961	862	
Export	- 93	- 345	- 68	- 55	- 54	- 60	- 68	-74	- 66	- 55	- 48	- 46	- 30	- 37	- 41	- 32	-25	- 34	- 20	- 17	- 11	- 12	-6.4	-2.6	-3.3	
nal energy consumption	214	277	374	354	323	323	285	282	288	299	311	278	280	274	277	274	277	277	277	275	276	277	267	275	265	Final energy consumpt
Industry	65	59	74	67	53	52	29	24	23	27	47	16	16	14	13	13	13	13	12	12	12	12	12	11	12	Industry
Transport Residential	64 31	103 40	159 47	144 47	119 49	117 51	99 53	98 54	101 52	102 54	98 53	88 58	90 58	89 57	88 58	88 57	87 60	87 58	87 60	85 58	84 59	84 59	77 64	80 65	73 62	Transport Residential
C ommerce & public services	51	72	91	94	98	100	104	106	112	116	113	116	116	115	117	117	118	119	119	119	121	122	114	119	117	
Others	1.7	2.4	2.6	2.6	2.7	2.7								0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
land peat	251	252	400	2.24			25.			242			2.54	240	205	225	244	222		2.52	27.0	2.50	420	453	450	C oal and peat
imary energy supply Production	264	253	182	201	223	282	264	287	287	313	287	300	261	310	305	325	341	280	280	263	270	258	138	153	150	Primary energy supply Production
Import	236	241	160	212	230	282	282	285	301	324	299	325	272	330	326	342	364	295	294	277	287	265	145	172	164	Import
Export	-0.1	-0.1	-0.1	-0.4	-0.1	-0.4				-0.1						-0.1										E xport
insformation sector	- 264	- 253	- 181	- 200	- 223	- 283	- 265	- 287	-287	- 313	- 287	- 300	- 261	- 310	- 305	- 325	- 341	-280	- 280	- 263	- 270	- 258	- 138	- 153	- 150	Transformation sector
Powergeneration	- 264	- 253	- 181	- 200	- 223	- 283	- 265	- 287	-287	- 313	- 287	- 300	- 261	- 310	- 305	- 325	- 341	-280	- 280	- 263	- 270	- 258	- 138	- 153	- 150	Power generation
nal energy consumption	0.5	0.4	0.2	0.2	0.2	0.2				0.1																Final energy consumpt
Industry Transport										0.1																Industry Transport
Residential																										Residential
C ommerce & public services																										Commerce & public
thers	0.5	0.4	0.2	0.2	0.2	0.2																				Others
and peat products mary energy supply																										C oal and peat products Primary energy supply
P ro ductio n																										Production
mport			1.0 -1.0																							Import
Export			-1.0																							Export
nsformation sector Power generation																										Transformation sector Power generation
_																										1
nal energy consumption Industry																										Final energy consump Industry
Transport																										Transport
Residential																										Residential
commerce & public services others																										C ommerce & public Others
e oil & NGL																										C rude oil & NGL
imary energy supply																										P rimary energy supply
P ro ductio n																										Production
Import E xport																										Import
ransformation sector																										Export
Petroleum refineries																										Export Transformation portor
leum products																										Transformation sector
mary energy supply																										Transformation sector Petroleum refineries Petroleum products
	134	181	247 581	223	190	190 501	173 685	190 645	166 687	164 740	164	123	134	130	135 747	133 753	131	144 842	155	166 899	159	163 876	155	139 552	103	Transformation sector Petroleum refineries Petroleum products Primary energy supply
	134 331 - 87	181 704 - 339	247 581 - 63	223 563 - 55	190 579 - 47	190 591 - 49	173 685 - 56	645	166 687 - 50	164 740 - 40	164 664 - 35	123 809 - 33	134 901 - 21	130 798 - 25	135 747 - 34	133 753 - 26	131 691 -21	144 842 - 29	155 855 - 15	166 899 - 12	159 909 -9,2	163 876 - 12	155 632 -6.4	552	103 466 -3.3	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import
xport	331 - 87	704 - 339	581 - 63	563 - 55	579 - 47	591 - 49	685 - 56	645 -58	687 - 50	740 - 40	664 - 35	809 - 33	901 - 21	798 - 25	747 - 34	753 - 26	691 -21	842 - 29	855 - 15	899 - 12	909 -9.2	876 - 12	632 -6.4	552 -2.5	466 -3.3	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export
xport nsformation sector	331	704	581	563	579	591	685	645	687	740	664	809	901	798	747	753	691	842	855	899	909	876	632	552	466	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import
xport Insformation sector Ower generation	331 - 87 - 22	704 - 339 - 31	581 - 63 - 30	563 - 55 - 30	579 - 47 - 30	591 - 49 - 32	685 - 56 - 30	645 - 58 - 32	687 - 50 - 26	740 - 40 - 16	664 - 35 - 16	809 - 33 - 14	901 - 21 - 15	798 - 25 - 15	747 - 34 - 22	753 - 26 - 17	691 -21 -14	842 - 29 - 14	855 - 15 - 18	899 - 12 - 17	909 -9.2 - 16	876 - 12 - 17	632 -6.4 - 15	552 -2.5 - 16	466 -3.3 - 17	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector P ower generation
xport nsformation sector ower generation etroleum refineries	331 -87 -22 -5.5	704 - 339 - 31 -7.4	581 - 63 - 30 -1.6	563 - 55 - 30 -1.6	579 - 47 - 30 -1.9	591 - 49 - 32 -2.1	685 - 56 - 30 -2 <i>A</i>	645 -58 -32 -1.6	687 - 50 - 26 -1.6	740 - 40 - 16 -1.3	664 - 35 - 16 -1.5	809 - 33 - 14 -1.9	901 - 21 - 15 -1.6	798 - 25 - 15 -1.5	747 - 34 - 22 -8.0	753 - 26 - 17 -1.8	691 -21 -14 -2.1	842 - 29 - 14 -2.6	855 - 15 - 18 -3.8	899 - 12 - 17 -4.2	909 -9,2 - 16 -3,1	876 - 12 - 17 -4.3	632 -6.4 - 15 -3.6	552 -2.5 - 16 -3.7	466 -3.3 - 17 -4.5	Transformation sector Petroleum refinerie Petroleum products Primary energy suppl Import Export Transformation sector Power generation Petroleum refinerie
xport insformation sector ower generation etroleum refineries al energy consumption dustry	331 - 87 - 22 -5.5	704 - 339 - 31 -7.4 149 38	581 - 63 - 30 -1.6 218 56	563 - 55 - 30 -1.6 194 49	579 - 47 - 30 -1.9 160 37	591 - 49 - 32 -2.1 158 36	685 - 56 - 30 -2.4 118 13	645 -58 -32 -1.6 112 8.5	687 - 50 - 26 -1.6 117 8.0	740 - 40 - 16 -1.3	664 - 35 - 16 -1.5 134 34	809 - 33 - 14 -1.9 99 4.0	901 - 21 - 15 -1.6	798 - 25 - 15 -1.5 95 3.8	747 - 34 - 22 -8.0 95 3.6	753 - 26 - 17 -1.8 93 3.3	691 -21 -14 -2.1 92 3.2	842 - 29 - 14 -2.6 91 3.2	855 - 15 - 18 -3.8 -91 -3.1	899 - 12 - 17 - 42 89 33	909 -9.2 - 16 -3.1 88 3.3	876 - 12 - 17 - 4.3 88 3.1	632 -6.4 - 15 -3.6 81 3.1	552 -2.5 - 16 -3.7 83 3.1	466 -3.3 - 17	Transformation secto Petroleum refinerie Petroleum products Primary energy suppl Import Export Transformation secto Power generation Petroleum refinerie Final energy consum; Industry
xport nsformation sector ower generation Petroleum refineries all energy consumption ndustry Transport	331 - 87 - 22 -5.5 113 40 61	704 - 339 - 31 -7.4 149 38 100	581 - 63 - 30 -1.6 218 56 155	563 - 55 - 30 -1.6 194 49 140	579 - 47 - 30 -1.9 160 37 115	591 - 49 - 32 -2.1 158 - 36 113	685 - 56 - 30 -2.4 118 13 94	645 -58 -32 -1.6 112 8.5 93	687 - 50 - 26 - 1.6 117 8.0 99	740 - 40 - 16 -1.3 123 13 99	664 - 35 - 16 -1.5	809 - 33 - 14 -1.9 99 4.0 86	901 - 21 - 15 -1.6 100 4.1 87	798 - 25 - 15 -1.5 95 3.8 85	747 - 34 - 22 -8.0 95 3.6 85	753 - 26 - 17 -1.8 93 3.3 85	691 -21 -14 -2.1 92 3.2 83	842 - 29 - 14 -2.6 91 3.2 83	855 - 15 - 18 -3.8 -91 3.1 84	899 - 12 - 17 - 4.2 89 3.3 82	909 -9.2 - 16 -3.1 88 3.3 80	876 - 12 - 17 -4.3 88 3.1 81	632 -6.4 - 15 -3.6 81 3.1 74	552 -2.5 - 16 -3.7 83 3.1 77	466 -3.3 - 17 -4.5	Transformation sector Petroleum products Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport
Export Insformation sector Ower generation Petroleum refineries Ial energy consumption Industry Transport Residential	331 - 87 - 22 -5.5	704 - 339 - 31 -7.4 149 38	581 - 63 - 30 -1.6 218 56	563 - 55 - 30 -1.6 194 49	579 - 47 - 30 -1.9 160 37	591 - 49 - 32 -2.1 158 36	685 - 56 - 30 -2.4 118 13	645 -58 -32 -1.6 112 8.5	687 - 50 - 26 -1.6 117 8.0	740 - 40 - 16 -1.3	664 - 35 - 16 -1.5 134 34	809 - 33 - 14 -1.9 99 4.0	901 - 21 - 15 -1.6	798 - 25 - 15 -1.5 95 3.8	747 - 34 - 22 -8.0 95 3.6	753 - 26 - 17 -1.8 93 3.3	691 -21 -14 -2.1 92 3.2	842 - 29 - 14 -2.6 91 3.2	855 - 15 - 18 -3.8 -91 -3.1	899 - 12 - 17 - 42 89 33	909 -9.2 - 16 -3.1 88 3.3	876 - 12 - 17 - 4.3 88 3.1	632 -6.4 - 15 -3.6 81 3.1	552 -2.5 - 16 -3.7 83 3.1	466 -3.3 - 17 -4.5 76 3.2 70	Transformation sector Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential
Export Insformation sector Power generation Petroleum refineries Ial energy consumption Industry Transport Residential Commerce & public services	331 - 87 - 22 -5.5 113 40 61 8.3	704 - 339 - 31 -7.4 149 38 100 7.0	581 - 63 - 30 - 1.6 218 56 155 4.9	563 - 55 - 30 -1.6 194 49 140 3.8	579 - 47 - 30 -1.9 160 37 115 5.4	591 - 49 - 32 -2.1 158 - 36 113 - 6.1	685 - 56 - 30 -2.4 118 13 94 5.4	645 -58 -32 -1.6 112 8.5 93 4.8	687 - 50 - 26 - 1.6 117 8.0 99 3.4	740 - 40 - 16 - 1.3 123 13 99 3.1	664 - 35 - 16 - 1.5 134 34 95	809 - 33 - 14 -1.9 99 4.0 86 3.1	901 - 21 - 15 -1.6 100 4.1 87 3.4	798 - 25 - 15 -1.5 95 3.8 85 3.1	747 - 34 - 22 -8.0 95 3.6 85 3.1	753 - 26 - 17 -1.8 93 3.3 85 3.0	691 -21 -14 -2.1 92 3.2 83 3.0	842 - 29 - 14 - 2.6 91 3.2 83 2.8	855 - 15 - 18 - 3.8 - 91 - 3.1 - 84 - 2.8	899 - 12 - 17 - 4.2 89 3.3 82 2.7	909 -9.2 - 16 -3.1 88 3.3 80 3.7	876 - 12 - 17 - 4.3 88 3.1 81 2.7	632 -6.4 - 15 -3.6 81 3.1 74 2.8	552 -2.5 - 16 -3.7 83 3.1 77 2.9	466 -3.3 - 17 -4.5 76 3.2 70 2.6	Transformation sector Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others
export Insformation sector Flower generation Flo	331 - 87 - 22 -5.5 113 40 61 8.3	704 - 339 - 31 - 7.4 149 38 100 7.0 3.0	581 - 63 - 30 - 1.6 218 56 155 4.9 2.2	563 - 55 - 30 -1.6 194 49 140 3.8 1.7	579 - 47 - 30 -1.9 160 37 115 5.4 2.9	591 - 49 - 32 -2.1 158 36 113 6.1 2.7	685 - 56 - 30 -24 118 13 94 54 54	645 -58 -32 -1.6 112 8.5 93 4.8 5.7	687 - 50 - 26 - 1.6 117 8.0 99 3.4 6.8	740 - 40 - 16 - 1.3 123 13 99 3.1 7.2	664 - 35 - 16 -1.5 134 34 95	809 - 33 - 14 -1.9 99 4.0 86 3.1 6.1	901 - 21 - 15 - 1.6 100 4.1 87 3.4 5.6	798 - 25 - 15 - 1.5 - 1.5	747 - 34 - 22 -8.0 95 3.6 85 3.1 2.6 0.1	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4	691 -21 -14 -2.1 92 3.2 83 3.0 2.1	842 - 29 - 14 - 2.6 - 91 - 3.2 - 83 - 2.8 - 1.9	855 - 15 - 18 - 3.8 - 91 - 3.1 - 84 - 2.8 - 1.6	899 - 12 - 17 - 42 89 33 82 2.7 1.3	909 -9.2 - 16 -3.1 88 3.3 80 3.7 1.2	876 -12 -17 -4.3 88 3.1 81 2.7 0.8	632 -64 - 15 -3.6 81 3.1 74 2.8 0.6	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6	466 -3.3 - 17 -4.5 76 3.2 70 2.6 0.5	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas
Export Insformation sector Ower generation Petroleum refineries Ital energy consumption Industry Transport Residential Commerce & public services Others many energy supply	331 - 87 - 22 -5.5 113 40 61 8.3	704 - 339 - 31 -7.4 149 38 100 7.0	581 - 63 - 30 - 1.6 218 56 155 4.9	563 - 55 - 30 -1.6 194 49 140 3.8	579 - 47 - 30 -1.9 160 37 115 5.4	591 - 49 - 32 -2.1 158 - 36 113 - 6.1	685 - 56 - 30 -2.4 118 13 94 5.4	645 -58 -32 -1.6 112 8.5 93 4.8	687 - 50 - 26 - 1.6 117 8.0 99 3.4	740 - 40 - 16 - 1.3 123 13 99 3.1	664 - 35 - 16 - 1.5 134 34 95	809 - 33 - 14 -1.9 99 4.0 86 3.1	901 - 21 - 15 - 1.6 100 4.1 87 3.4	798 - 25 - 15 -1.5 95 3.8 85 3.1 3.0	747 - 34 - 22 -8.0 95 3.6 85 3.1 2.6	753 - 26 - 17 -1.8 93 3.3 85 3.0	691 -21 -14 -2.1 92 3.2 83 3.0	842 - 29 - 14 - 2.6 91 3.2 83 2.8	855 - 15 - 18 - 3.8 - 91 - 3.1 - 84 - 2.8	899 - 12 - 17 - 4.2 89 3.3 82 2.7	909 -9.2 - 16 -3.1 88 3.3 80 3.7	876 - 12 - 17 - 4.3 88 3.1 81 2.7	632 -6.4 - 15 -3.6 81 3.1 74 2.8	552 -2.5 - 16 -3.7 83 3.1 77 2.9	466 -3.3 - 17 -4.5 76 3.2 70 2.6	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas
Export ansformation sector Power generation Petroleum refineries nal energy consumption industry Transport Residential Commerce & public services Others imary energy supply Production import	331 - 87 - 22 -5.5 113 40 61 8.3	704 - 339 - 31 - 7.4 149 38 100 7.0 3.0	581 - 63 - 30 - 1.6 218 56 155 4.9 2.2	563 - 55 - 30 -1.6 194 49 140 3.8 1.7	579 - 47 - 30 -1.9 160 37 115 5.4 2.9	591 - 49 - 32 -2.1 158 36 113 6.1 2.7	685 - 56 - 30 -24 118 13 94 54 54	645 -58 -32 -1.6 112 8.5 93 4.8 5.7	687 - 50 - 26 - 1.6 117 8.0 99 3.4 6.8	740 - 40 - 16 - 1.3 123 13 99 3.1 7.2	664 - 35 - 16 -1.5 134 34 95	809 - 33 - 14 -1.9 99 4.0 86 3.1 6.1	901 - 21 - 15 - 1.6 100 4.1 87 3.4 5.6	798 - 25 - 15 - 1.5 - 1.5	747 - 34 - 22 -8.0 95 3.6 85 3.1 2.6 0.1	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4	691 -21 -14 -2.1 92 3.2 83 3.0 2.1	842 - 29 - 14 - 2.6 - 91 - 3.2 - 83 - 2.8 - 1.9	855 - 15 - 18 - 3.8 - 91 - 3.1 - 84 - 2.8 - 1.6	899 - 12 - 17 - 42 89 33 82 2.7 1.3	909 -9.2 - 16 -3.1 88 3.3 80 3.7 1.2	876 -12 -17 -4.3 88 3.1 81 2.7 0.8	632 -64 - 15 -3.6 81 3.1 74 2.8 0.6	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6	466 -3.3 - 17 -4.5 76 3.2 70 2.6 0.5	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import
Export ansformation sector Power generation Petroleum refineries nal energy consumption industry Transport Residential Commerce & public services Others imary energy supply Production import	331 -87 -22 -5.5 113 40 61 8.3 3.3	704 - 339 - 31 - 7.4 149 - 38 100 7.0 3.0	581 -63 -30 -1.6 218 56 155 4.9 2.2	563 -55 -30 -1.6 194 49 140 3.8 1.7	579 -47 -30 -1.9 160 37 115 54 2.9	591 - 49 - 32 -2.1 158 36 113 6.1 2.7	685 - 56 - 30 - 2.4 118 13 94 5.4 5.4 86	645 -58 -32 -1.6 112 8.5 93 4.8 5.7	687 - 50 - 26 - 1.6 117 8.0 99 3.4 6.8	740 - 40 - 16 - 1.3 123 13 99 3.1 72	664 -35 -16 -1.5 134 34 95 4.5	809 -33 -14 -1.9 99 4.0 86 3.1 6.1	901 -21 -15 -1.6 100 4.1 87 3.4 5.6	798 - 25 - 15 - 1.5 - 1.	747 - 34 - 22 - 8.0 95 3.6 85 3.1 2.6 0.1	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4	691 -21 -14 -2.1 92 3.2 83 3.0 2.1	842 -29 -14 -2.6 91 3.2 83 2.8 1.9	855 - 15 - 18 - 3.8 - 91 - 3.1 - 84 - 2.8 - 1.6	899 -12 -17 -42 89 3.3 82 2.7 1.3	909 -9.2 - 16 -3.1 88 3.3 80 3.7 1.2	876 -12 -17 -4.3 88 3.1 81 2.7 0.8	632 -64 - 15 -3.6 81 3.1 74 2.8 0.6	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6	466 -3.3 -17 -4.5 76 3.2 70 2.6 0.5	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import Export
xport nsformation sector over generation over generation over generation over generation over generation all energy consumption ndustry ransport residential commerce & public services others many energy supply reduction mport xport nsformation sector	331 - 87 - 22 -5.5 113 40 61 8.3	704 - 339 - 31 - 7.4 149 - 38 - 100 - 7.0 - 3.0 0.9 - 1.3	581 -63 -30 -1.6 218 56 155 4.9 2.2	563 -55 -30 -1.6 194 49 140 3.8 1.7	579 -47 -30 -1.9 160 37 115 54 2.9	591 - 49 - 32 -2.1 158 36 113 6.1 2.7 72 72	685 - 56 - 30 -2.4 118 13 94 5.4 5.4 5.4	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85	687 -50 -26 -1.6 117 8.0 99 3.4 6.8	740 - 40 - 16 - 1.3 123 13 99 3.1 72 78 85	664 -35 -16 -15 134 34 95 45	809 -33 -14 -1.9 99 4.0 86 3.1 6.1	901 -21 -15 -1.6 100 4.1 87 3.4 5.6	798 - 25 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1	753 - 26 - 17 - 1.8 - 93 - 3.3 - 85 - 3.0 - 2.4 - 97 - 97	691 -21 -14 -2.1 92 3.2 83 3.0 2.1	842 - 29 - 14 - 2.6 - 91 3.2 83 2.8 1.9 - 124 - 124 - 98	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -127	899 -12 -17 -42 89 33 82 2.7 13 126 126	909 -9.2 - 16 -3.1 88 3.3 80 3.7 1.2	876 -12 -17 -43 88 3.1 81 2.7 0.8	632 -64 -15 -3.6 81 3.1 74 2.8 0.6	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6	466 -3.3 -17 -4.5 76 3.2 70 2.6 0.5 187 -163	Transformation sector Petroleum products Primary energy supph Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supph Production Import Export Transformation sector
Import Export ansformation sector Power generation Petroleum refineries nal energy consumption Industry Transport Residential Commerce & public services Others imary energy supply Production Import Export ansformation sector Power generation	331 -87 -22 -5.5 113 -40 -61 -8.3 -3.3	704 - 339 - 31 - 7.4 149 - 38 - 100 - 7.0 - 3.0 0.9 - 1.3 - 17 - 0.9	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 117 -96 -117	563 -55 -30 -1.6 194 49 140 3.8 1.7	579 -47 -30 -1.9 160 37 115 54 2.9 113 -91 -113	591 - 49 - 32 - 2.1 158 36 113 6.1 2.7 72 72 - 50 - 72	685 - 56 - 30 -2.4 118 13 94 5.4 5.4 5.4 66 86	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85	687 -50 -26 -1.6 117 8.0 99 3.4 6.8 91 91	740 -40 -16 -13 123 13 99 3.1 7.2 78 85 -53 -68	664 -35 -16 -15 134 34 95 45 93 99 -65 -80	809 -33 -14 -1.9 99 4.0 86 3.1 6.1 107 98 -80 -92	901 -21 -15 -1.6 100 4.1 87 3.4 5.6	798 - 25 - 15 - 1.	747 - 34 - 22 - 8.0 95 3.6 85 3.1 2.6 0.1 99 99	753 - 26 - 17 - 1.8 - 93 - 3.3 - 85 - 3.0 - 2.4 - 97 - 97 - 71 - 86	691 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80	842 -29 -14 -2.6 91 3.2 83 2.8 1.9 124 124 -98 -110	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115	899 -12 -17 -42 89 33 82 2.7 13 126 -101 -113	909 -9.2 - 16 -3.1 88 3.3 80 3.7 1.2 123 123 -97 -110	876 -12 -17 -43 88 3.1 81 2.7 0.8 128 -102 -115	632 -64 -15 -3.6 81 3.1 74 2.8 0.6	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6	466 -3.3 -17 -4.5 76 3.2 70 2.6 0.5	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import Export Transformation sector Power generation
xport nsformation sector ower generation etroleum refineries al energy consumption ndustry ransport Residential Commerce & public services Offers many energy supply or duction mport Export nsformation sector ower generation al energy consumption	331 -87 -22 -5.5 113 40 61 8.3 3.3	704 - 339 - 31 - 7.4 149 - 38 100 - 7.0 - 3.0 - 0.9 - 1.3 - 17 - 0.9 - 18	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 -96 -117	563 -55 -30 -1.6 194 49 140 3.8 1.7 118 118 -97 -118	579 -47 -30 -1.9 160 37 115 5.4 2.9 113 -91 -113 -22	591 - 49 - 32 -2.1 158 - 36 113 - 6.1 2.7 72 72 - 50 - 72 - 22	685 - 56 - 30 - 2.4 118 13 94 5.4 5.4 5.4 66 86	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85 -85	687 -50 -26 -1.6 117 8.0 99 3.4 6.8 91 91	740 -40 -16 -1.3 123 13 99 3.1 7.2 78 85 -53 -68 27	93 99 - 65 - 80 28	809 -33 -14 -1.9 -99 4.0 86 3.1 6.1 -107 -98 -80 -92 -28	901 -21 -15 -1.6 100 4.1 87 3.4 5.6 132 119 -104 -117 28	798 - 25 - 15 - 15 - 15 - 15 - 15 - 15 - 17 - 15 - 17 - 107 - 82 - 95 - 25	747 - 34 - 22 - 8.0 95 3.6 85 3.1 2.6 0.1 99 99 - 74 - 88 25	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4 97 97	691 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80 26	842 -29 -14 -2.6 -91 -3.2 -83 -2.8 -1.9 -124 -98 -110 -25	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115 -26	899 -12 -17 -42 89 33 82 2.7 13 126 -101 -113 26	909 -9.2 - 16 -3.1 - 88 - 3.3 - 80 - 3.7 - 1.2 - 97 - 110 - 26	876 -12 -17 -4.3 -88 -3.1 -12.7 -12.8 -12.8 -10.2 -11.5 -2.5	632 -64 - 15 -3.6 81 3.1 74 2.8 0.6 192 192 - 167 - 178 25	552 -2.5 -16 -3.7 -3.7 2.9 0.6 -192 -167 -179 -25	466 -3.3 -17 -4.5 76 3.2 70 2.6 0.5 187 187 -163 -175 24	Transformation sector Petroleum prefineries Petroleum predineries Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import Export Transformation sector Power generation Final energy consump
xport nsformation sector over generation of the toleum refineries all energy consumption ndustry Transport tesidential commerce & public services others many energy supply or duction mport ixport over generation all energy consumption ndustry	331 -87 -22 -5.5 113 -40 -61 -8.3 -3.3	704 - 339 - 31 - 7.4 149 - 38 - 100 - 7.0 - 3.0 0.9 - 1.3 - 17 - 0.9	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 117 -96 -117	563 -55 -30 -1.6 194 49 140 3.8 1.7	579 -47 -30 -1.9 160 37 115 54 2.9 113 -91 -113	591 - 49 - 32 - 2.1 158 36 113 6.1 2.7 72 72 - 50 - 72	685 - 56 - 30 -2.4 118 13 94 5.4 5.4 5.4 66 86	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85	687 -50 -26 -1.6 117 8.0 99 3.4 6.8 91 91	740 -40 -16 -13 123 13 99 3.1 7.2 78 85 -53 -68	664 -35 -16 -15 134 34 95 45 93 99 -65 -80	809 -33 -14 -1.9 99 4.0 86 3.1 6.1 107 98 -80 -92	901 -21 -15 -1.6 100 4.1 87 3.4 5.6	798 - 25 - 15 - 1.	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1 99 99	753 - 26 - 17 - 1.8 - 93 - 3.3 - 85 - 3.0 - 2.4 - 97 - 97 - 71 - 86	691 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80	842 -29 -14 -2.6 91 3.2 83 2.8 1.9 124 124 -98 -110	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115	899 -12 -17 -42 89 33 82 2.7 13 126 -101 -113	909 -9.2 - 16 -3.1 88 3.3 80 3.7 1.2 123 123 -97 -110	876 -12 -17 -43 88 3.1 81 2.7 0.8 128 -102 -115	632 -64 -15 -3.6 81 3.1 74 2.8 0.6	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6	466 -3.3 -17 -4.5 76 3.2 70 2.6 0.5 187 -163	Transformation sector Petroleum refineries Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import Export Transformation sector Power generation Final energy consump
xport isformation sector ower generation etroleum refineries al energy consumption dustry ransport seid ential ommerce & public services thers hary energy supply roduction rapport xport isformation sector ower generation al energy consumption dustry ransport	331 -87 -22 -5.5 113 40 61 8.3 3.3	704 - 339 - 31 - 7.4 149 - 38 100 - 7.0 - 3.0 - 0.9 - 1.3 - 17 - 0.9 - 18 - 0.8 - 8.4	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 -96 -117 21 0.8	563 -55 -30 -1.6 194 49 140 3.8 1.7 118 118 -97 -118 22 0.8	579 -47 -30 -1.9 160 37 115 5.4 2.9 113 -113 -91 -113 22 0.8	591 - 49 - 32 - 2.1 158 - 36 113 - 6.1 2.7 72 72 - 50 - 72 22 0.8	685 - 56 - 30 - 2.4 118 13 94 5.4 5.4 5.4 66 86 - 61 - 86 24 0.9	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85 -85 0.8	687 -50 -26 -1.6 117 8.0 99 3.4 6.8 91 -66 -91 -24 0.8	740 -40 -16 -1.3 123 13 99 3.1 7.2 78 85 -53 -68 27 0.9	93 93 99 - 65 - 80 99 16	809 -33 -14 -1.9 -99 4.0 86 3.1 6.1 -107 -98 -80 -92 -28 0.9	901 -21 -15 -1.6 100 4.1 87 3.4 5.6 132 119 -104 -117 28 0.9	798 - 25 - 15 - 1.5 - 1.5 - 95 - 3.8 - 85 - 3.1 - 3.0 - 0.1 - 107 - 82 - 95 - 0.8 - 14	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1 99 -74 -88 25 1.0	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4 97 97 - 71 - 86 25 1.1	691 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80 26 1.1	842 -29 -14 -2.6 -91 -3.2 -83 -2.8 -1.9 -124 -98 -110 -25 -1.1	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115 -26 -1.0 -14	899 -12 -17 -42 89 33 82 2.7 13 126 -101 -113 -26 1.1	909 -9.2 -16 -3.1 -88 3.3 80 3.7 1.2 -123 -97 -110 26 1.2	876 -12 -17 -4.3 -88 -3.1 -11 -2.7 -0.8 -128 -102 -115 -25 -1.3 -13	632 -64 - 15 -3.6 81 3.1 74 2.8 0.6 192 192 - 167 - 178 25 1.2	552 -2.5 -16 -3.7 -3.7 2.9 0.6 -192 -167 -179 -25 1.2	466 -3.3 -17 -4.5 -76 -3.2 -70 -2.6 -0.5 -187 -175 -24 -1.3 -14	Transformation secto Petroleum refinerie Petroleum products Primary energy suppt Import Export Transformation secto Power generation Petroleum refinerie Final energy consums Industry Transport Residential Commerce & public Others Gas Primary energy suppt Production Import Export Transformation secto Power generation Final energy consums Industry Transport Residential
sport sformation sector over generation tetroleum refineries I energy consumption dustry ansport seid ential ommerce & public services thers any energy supply o duction port sport sformation sector over generation I energy consumption dustry ansport seidential ommerce & public services	331 -87 -22 -5.5 113 -40 -61 -8.3 -3.3 -12 -12 -12 -5.5 -5.8 -4.8	704 - 339 - 31 - 7.4 149 - 38 100 - 7.0 - 3.0 0.9 1.3 17 - 0.9 18 0.8 8.4 6.9	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 117 -96 -117 21 0.8	563 -55 -30 -1.6 194 49 140 3.8 1.7 118 118 -97 -118 22 0.8	579 -47 -30 -1.9 160 37 115 5.4 2.9 113 113 -91 -113 22 0.8 10 8.4	591 -49 - 32 -2.1 158 36 113 6.1 2.7 72 72 72 -50 -72 22 0.8	685 - 56 - 30 -2.4 118 13 94 5.4 5.4 5.4 66 86 - 61 - 86 24 0.9	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85 25 0.8	687 -50 -26 -1.6 117 8.0 99 3.4 6.8 91 91 -66 -91 24 0.8	740 - 40 - 16 - 1.3 123 13 99 3.1 72 78 85 - 53 - 68 27 0.9	664 -35 -16 -15 134 34 95 4.5 93 99 -65 -80 28 0.9	809 -33 -14 -1.9 99 4.0 86 3.1 6.1 107 98 -80 -92 28 0.9	901 -21 -15 -1.6 100 4.1 87 3.4 5.6 132 119 -104 -117 28 0.9	798 - 25 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1 99 99 -74 -88 25 1.0	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4 97 97 - 71 - 86 25 1.1	691 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80 26 1.1	842 -29 -14 -2.6 91 3.2 83 2.8 1.9 124 124 -98 -110 25 1.1	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -1.27 -101 -115 -26 -1.0	899 -12 -17 -42 89 33 82 2.7 1.3 126 -101 -113 -26 -1.1	909 -9.2 -16 -3.1 88 3.3 80 3.7 1.2 123 123 -97 -110 26 1.2	876 -12 -17 -43 88 3.1 81 2.7 0.8 128 -102 -115 25 13	632 -64 -15 -3.6 81 3.1 74 2.8 0.6 192 192 -167 -178 25 1.2	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6 192 -167 -179 2.5 1.2	466 -3.3 -17 -4.5 76 3.2 70 2.6 0.5 187 187 -163 -175 24	Transformation secto Petroleum refinerie Petroleum products Primary energy suppl Import Export Transformation secto Power generation Petroleum refinerie Final energy consum; Industry Transp ort Residential Commerce & public Others Gas Primary energy suppl Production Import Export Transformation secto Power generation Final energy consum; Industry Transport Residential Commerce & public Transformation secto Power generation Final energy consum; Industry Transport Residential Commerce & public
xport nsformation sector over generation eteroleum refineries al energy consumption dustry ransport tesidential commerce & public services where nary energy supply roduction mport xport nsformation sector over generation al energy consumption dustry ransport tesidential commerce & public services where	331 -87 -22 -5.5 113 40 61 8.3 3.3	704 - 339 - 31 - 7.4 149 - 38 100 - 7.0 - 3.0 - 0.9 - 1.3 - 17 - 0.9 - 18 - 0.8 - 8.4	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 -96 -117 21 0.8	563 -55 -30 -1.6 194 49 140 3.8 1.7 118 118 -97 -118 22 0.8	579 -47 -30 -1.9 160 37 115 5.4 2.9 113 -113 -91 -113 22 0.8	591 - 49 - 32 - 2.1 158 - 36 113 - 6.1 2.7 72 72 - 50 - 72 22 0.8	685 - 56 - 30 - 2.4 118 13 94 5.4 5.4 5.4 66 86 - 61 - 86 24 0.9	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85 -85 0.8	687 -50 -26 -1.6 117 8.0 99 3.4 6.8 91 -66 -91 -24 0.8	740 -40 -16 -1.3 123 13 99 3.1 7.2 78 85 -53 -68 27 0.9	93 93 99 - 65 - 80 99 16	809 -33 -14 -1.9 -99 4.0 86 3.1 6.1 -107 -98 -80 -92 -28 0.9	901 -21 -15 -1.6 100 4.1 87 3.4 5.6 132 119 -104 -117 28 0.9	798 - 25 - 15 - 1.5 - 1.5 - 95 - 3.8 - 85 - 3.1 - 3.0 - 0.1 - 107 - 82 - 95 - 0.8 - 14	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1 99 -74 -88 25 1.0	753 - 26 - 17 - 1.8 93 3.3 85 3.0 2.4 97 97 - 71 - 86 25 1.1	691 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80 26 1.1	842 -29 -14 -2.6 -91 -3.2 -83 -2.8 -1.9 -124 -98 -110 -25 -1.1	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115 -26 -1.0 -14	899 -12 -17 -42 89 33 82 2.7 13 126 -101 -113 -26 1.1	909 -9.2 -16 -3.1 -88 3.3 80 3.7 1.2 -123 -97 -110 26 1.2	876 -12 -17 -4.3 -88 -3.1 -11 -2.7 -0.8 -128 -102 -115 -25 -1.3 -13	632 -64 - 15 -3.6 81 3.1 74 2.8 0.6 192 192 - 167 - 178 25 1.2	552 -2.5 -16 -3.7 -3.7 2.9 0.6 -192 -167 -179 -25 1.2	466 -3.3 -17 -4.5 -76 -3.2 -70 -2.6 -0.5 -187 -175 -24 -1.3 -14	Transformation secto Petroleum refinerie Petroleum products Primary energy suppl Import Export Transformation secto Power generation Petroleum refinerie Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy suppl Production Import Export Transformation secto Power generation Final energy consump Industry Transport Residential Commerce & public Others
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xport	331 -87 -22 -5.5 113 -40 -61 -8.3 -3.3 -12 -12 -12 -0.5 -5.8 -4.8 -1.2 -104 -104	704 - 339 - 31 - 7.4 149 - 38 100 - 7.0 - 3.0 0.9 1.3 17 - 0.9 18 0.8 8.4 6.9 1.7	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 117 -96 -117 21 0.8 10 8.2 2.0	563 -55 -30 -1.6 194 499 140 3.8 1.7 118 118 -97 -118 22 0.8 8.4 2.1	579 -47 -30 -1.9 160 37 115 54 2.9 113 113 -91 -113 22 0.8 10 8.4 2.1	591 -49 -32 -2.1 158 36 113 6.1 2.7 72 72 72 -50 -72 22 0.8 10 8.5 2.1	685 - 56 - 30 - 2.4 118 13 94 5.4 5.4 5.4 5.4 10 135 135 135	645 -58 -32 -1.6 112 8.5 93 4.8 5.7 85 85 -61 -85 25 0.8 14 10	91 91 -66 -91 -66 -91 -66 -91 -66 -91 -66 -91 -91 -66 -91 -91 -91 -91 -91 -91 -91 -91 -91 -91	740 -40 -40 -16 -1.3 123 13 99 3.1 72 78 85 -53 -68 27 0.9 15 11	93 -65 -80 -80 -95 -65 -80 -28 -95 -65 -80 -28 -95 -45 -45 -45 -45 -45 -45 -45 -45 -45 -4	809 -33 -14 -1.9 99 4.0 86 3.1 6.1 107 98 -80 -92 28 0.9 16 11 140 139	901 -21 -15 -1.6 100 4.1 87 3.4 5.6 132 119 -104 -117 28 0.9 15 11	798 - 25 - 15 - 1.5 - 15 - 1.5 - 95 - 3.8 - 85 - 3.1 - 3.0 - 0.1 - 107 - 82 - 95 - 25 - 0.8 - 14 - 10 - 141 - 140 - 0.2 - 152	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1 99 99 -74 -88 25 1.0 14 10	97 -18 -93 -33 -33 -35 -30 -24 -97 -71 -86 -25 -1.1 -14 -11 -141 -141 -141 -153	91 -21 -14 -2.1 92 3.2 83 3.0 2.1 95 95 -69 -80 26 1.1 14 11	842 -29 -14 -2.6 91 3.2 83 2.8 1.9 124 124 -98 -110 25 1.1 13 11 137 137 137	855 -15 -18 -3.8 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115 -26 -1.0 -14 -11 -115 -14 -11 -143 -142 -03 -159	899 -12 -17 -42 89 3.3 82 2.7 1.3 126 -101 -113 26 1.1 14 11 133 133 0.4 158	909 -9.2 -16 -3.1 -88 -3.3 -97 -110 -26 -1.2 -14 -11	876 -12 -17 -4.3 88 3.1 8.1 2.7 0.8 128 -102 -115 25 1.3 11 11	192 192 192 192 192 192 167 178 25 12 15 8.8	552 -2.5 -16 -3.7 83 3.1 77 2.9 0.6 192 192 -167 -179 2.5 1.2 14 9.1	466 -3.3 -17 -4.5 -76 -3.2 -7 -7 -4.5 -187 -187 -163 -175 -24 -1.3 -14 -8.8 -130 -129 -1.3 -161 -161 -161 -161 -161 -161 -161 -16	Transformation sector Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import Export Transformation sector Power generation Final energy consump Industry Transport Residential Commerce & public Others Electricity Power generation Thermal Hydro Nuclear Others Final energy consump
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xport xp	331 -87 -22 -5.5 113 40 61 8.3 3.3 12 12 0.5 5.8 4.8 1.2	704 - 339 - 31 - 7.4 149 - 38 100 - 7.0 - 3.0 0.9 1.3 17 - 0.9 - 18 - 0.8 8.4 - 6.9 - 1.7 100 - 100 110 - 20	581 -63 -30 -1.6 218 56 155 4.9 2.2 117 -96 -117 -21 0.8 10 8.2 2.0	563 -55 -30 -1.6 194 49 140 3.8 1.7 118 118 -97 -118 22 0.8 10 8.4 2.1	579 -47 -30 -1.9 160 37 115 5.4 2.9 113 -91 -113 -91 -113 -22 0.8 10 8.4 2.1 124 124 124	72 - 50 - 72 - 22 - 0.8 - 128 - 128 - 128 - 135 - 158	865 - 30 - 2.4 118 13 94 5.4 5.4 5.4 5.4 10 86 - 61 - 86 - 24 0.9 14 10	85 -61 -85 -85 -61 -85 -61 -85 -85 0.8 14 10	91 -66 -91 -66 -91 -66 -91 -66 -91 -66 -91 -66 -91 -24 -0.8 -14 -10	740 -40 -40 -16 -1.3 123 13 99 3.1 72 78 85 -53 -68 27 0.9 15 11	93 95 -65 -80 99 16 11 150 150 02 147 12	809 -33 -14 -1.9 99 4.0 86 3.1 6.1 107 98 -80 -92 28 0.9 16 11	901 -21 -15 -1.6 100 4.1 87 3.4 5.6 132 119 -104 -117 28 0.9 15 11	798 - 25 - 15 - 1.5 - 1.5 - 1.5 - 95 - 3.8 - 85 - 3.1 - 3.0 - 0.1 - 107 - 82 - 95 - 25 - 0.8 - 14 - 10 - 141 - 140 - 0.2 - 152 - 9.1	747 -34 -22 -8.0 95 3.6 85 3.1 2.6 0.1 99 -74 -88 25 1.0 14 10	97 97 -71 -86 25 1.1 141 141 141 0.1 153 8.3	91 -21 -14 -2.1 -92 -3.2 -83 -3.0 -2.1 -95 -69 -80 -26 -1.1 -14 -11 -14 -11 -14 -11 -14 -11 -14 -11 -14 -11 -14 -11 -14 -11 -14 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15	842 -29 -14 -2.6 -91 -3.2 -83 -2.8 -1.9 -124 -98 -110 -25 -1.1 -13 -11 -13 -13 -13 -13 -13 -13 -13 -1	855 -15 -18 -3.8 -91 -3.1 -84 -2.8 -1.6 -127 -101 -115 -26 -1.0 -14 -11 -115 -143 -143 -143 -143 -143 -159 -7.8	899 -12 -17 -42 89 33 82 2.7 13 126 -101 -113 26 1.1 14 11 133 133 0.4 158 7.9	909 -9.2 -16 -3.1 -88 -3.3 80 3.7 1.2 -123 -97 -110 -26 -1.2 -14 -11	876 -12 -17 -4.3 -88 -3.1 -12.7 -0.8 -128 -102 -115 -25 -13 -13 -13 -13 -13 -13 -13 -13 -13 -13	632 -64 -15 -3.6 81 3.1 74 2.8 0.6 192 -167 -178 25 1.2 15 8.8	552 -2.5 -16 -3.7 -3.7 2.9 0.6 -192 -167 -179 -25 1.2 -14 -9.1 -133 132 -0.9 -165 -7.1	466 -3.3 -17 -4.5 -76 -3.2 -70 -2.6 -0.5 -187 -175 -24 -1.3 -1.4 -8.8 -130 -129 -13 -15 -7.0 -16 -7.0 -16 -7.0 -16 -7.0 -16 -7.0 -16 -7.0 -16 -7.0 -16 -7.0 -7.0 -7.0 -7.0 -7.0 -7.0 -7.0 -7.0	Transformation sector Petroleum products Primary energy supply Import Export Transformation sector Power generation Petroleum refineries Final energy consump Industry Transport Residential Commerce & public Others Gas Primary energy supply Production Import Export Transformation sector Power generation Final energy consump Industry Transport Residential Commerce & public Others Electricity Power generation Thermal Hydro Nuclear Others Final energy consump Industry Transport Residential Commerce & public Others Electricity Power generation Thermal Hydro Nuclear Others Final energy consump Industry Transport Residential

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	2022	
Population (million) *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	7.35	Population (million) *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	318	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	470	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	418 345	369	359	Nominal, billion USD (current)
	· · ·	143	172	103	100	101	103	102	154	212	213	214	223	243	203	270	291	309	321	341	302	303	340	309	309	
GDP per capita *3	21 257	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	44.707	40.400			45.000				40.000	GDP per capita *3
Real term (constant 2015 USD)	21 357																41 797	42 432	43 088	44 381	45 280	44 195	41 451	44 526	43 283	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	28 798 13 486	34 546 23 497	36 316 25 757	36 252 25 230	36 690 24 666	37 886 23 977	40 862 24 928	43 689 26 650	46 462 28 224	49 043 30 594	49 788 31 516	48 459 30 698	51 360 32 550	53 472 35 142	53 784 36 731	55 230 38 404	56 358	57 215	58 098	59 842	61 055	59 592	55 892	60 037	64 039	GDP, PPP (constant 2017 USD)
Nominal (current USD)	13 400	23 497	23 /3/	23 230	24 000	23 911	24 92 0	20 030	20 224	30 394	31310	30 090	32 330	33 142	30 / 31	30 404	40 315	42 432	43 734	46 160	48 538	48 359	46 109	49 765	48 828	Nominal (current USD)
Nominal GDP & its components (billion of current HKD) *1																										Nominal GDP & its components (billion of current HKD) 1
Gross domestic product	599	1 1 1 1 9	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 6 6 0	2 835	2 845	2 676	2868	2 809	Gross domestic product
Household final consumption expenditure	344	696	784	788	753	723	771	812	869	982	1 026	1 014	1 090	1 224	1 3 1 5	1 413	1 503	1 593	1 650	1784	1 936	1 974	1 775	1863	1 863	Household 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	403	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	451	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	- 24	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 3 0 3	2 956	3 647	4 117	4 3 9 7	4 739	4 816	4 698	4 658	5 024	5 340	5 054	4 718	5 851	5 463	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 3 7 4	4 7 2 6	4 811	4 641	4 601	4 9 9 7	5 346	5 010	4 666	5 691	5 348	Imports of goods and services
Real GDP & its components (billion of 2019 HKD) *1																										Real GDP & its components (billion of 2019 HKD) *1
Gross Domestic Product	1 0 5 8	1 3 7 0	1 560	1 568	1 594	1 643	1 786	1 918	2 053	2 185	2 2 3 2	2 177	2 324	2 436	2 478	2 5 5 5	2 625	2 688	2 746	2851	2 932	2 883	2 694	2868	2 762	Gross Domestic Product
Household final consumption expenditure	664	920	1 005	1 019	1 008	992	1 063	1 101	1 1 6 8	1 2 6 9	1 293	1 295	1 374	1 490	1 5 5 1	1 623	1 677	1 757	1 792	1890	1 990	1 974	1 765	1863	1 822	Household 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	393	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	447	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	- 22	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 1 6 4	3 784	4 449	4 663	4812	5 189	5 239	5 167	5 203	5 5 0 7	5 708	5 357	4 999	5 851	5 118	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	4710	5 100	5 153	5 062	5 106	5 4 4 4	5 688	5 276	4 914	5 691	4 995	Imports of goods and services
Sectoral shares of Real GDP (%) 11																										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	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	6.5	Industry
Services, etc.	N.A.	N.A.	84.2	85.3	86.4	87.5	88.3	88.6	88.A	89.0	892	89.9	90.0	90.3	90.4	90.1	89.8	89.2	89.3	89.1	89.3	90.2	90.1	89.7	90.0	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	99.3	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.A	173.9	202.7	191.1	201.9	228.7	265.5	292.1	322.7	349.4	370.2	329 <i>A</i>	400.7	455.6	492.9	535.5	524.1	510.5	516.6	549.9	568.5	534.9	548.8	669.9	609.9	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	667.6	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Trade balance	N.A.	N.A.	20.5	20.8	24.2	24.2	24.2	31.1	30.9	26.9	25.0	133	3.3	-7.5	-18.9	-27.9	-32.4	-22.9	-16.7	-22.9	-32.3	-15.4	-5.3	3.2	-5.1	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	212	16.0	13.8	4.1	4.2	4.1	10.3	12.7	15.6	13.5	21.3	24.1	43.7	36.5	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	-45.5	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	7.83	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	5.58	PPP conversion factor, GDP (HKD/USD) 1
Price Indices																										Price Indices
GDP Deflator (2021=100) *3	56.6	81.7	85.8	842	81.4	76.5	73.7	73.6	73.2	75.5	76.5	762	76.4	79.4	82.2	83.7	86.1	00.0	00.7	02.2	067	98.7	99.3	100.0	101.7	
GDP Deriator (2021=100) 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	943	100.0	108.3	108.4	105.1	103.3	89.2 100.5	90.7 101.8	93.3 105.6	96.7 107.7	108.8	111.3	112.6	113.6	GDP Deflator (2021=100) ⁷³ Producer Price Index (2010=100) ⁷²
Consumer Price Index (2010=100) *2	57.0	89.7	95.9	943	91.5	89.0	88.8	89.5	91.3	93.2	97.2	97.8	100.0	105.3	109.6	114.3	119.4	123.0	125.9	127.8	130.9	134.6	135.0	137.1	139.7	Consumer Price Index (2010=100) *2
	3.10	05.11	220	2-13	22	03.0	00.0	03.3	7.13		212	2.20	100.0	103.3	103.0	1130	113.4	123.0	120.8	121.0	130.8	134.0	133.0	131.1	138.1	` '
Growth rate (%) ¹³	2.0	2.4	7.7	0.5	1.7	2.1	8.7	7.4	7.0		2.1	2.5	6.8	4.8	17	3.1		0.4	0.0	2.0	0.0	47			2.7	Growth rate (%) *3
Real GDP	3.8 0.3	2.4 2.0	0.9	0.6 0.7	0.4	3.1 -0.2	0.8	0.4	7.0 0.6	6.5 0.9	2.1 0.6	-2.5 0.2	0.7	4.8 0.7	1.7	0.4	2.8	2.4	2.2	3.8	2.8	-1.7	-6.5	6.4	-3.7	Real GDP
Population	0.3	2.0	0.9	0.7	0.4	-0.2	0.8	0.4	0.0	0.9	O.D	0.2	0.7	0.7	1.1	UA	0.7	0.9	0.6	0.8	0.8	0.7	-0.4	-0.9	-0.9	Population
Price	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	47	0.7	4.0	2.0	0.0	4.0	0.0	4.0	0.0	Price
Producer prices	10.A	2.8 9.1	-3.7	-1.0 -1.7	-2.7	-0.3 -2.7	-0.3	0.8	2.0	2.0	4.3	0.6	2.3	5.3	4.1	-3.1 4.3	-1.7	-2.7	1.3	3.8	2.0	1.0	2.3	1.2	0.8	
Consumer prices	10.4	9.1	-5./	-1./	-210	-2.1	-0.5	0.0	2.0	2.0	4.5	0.0	2.3	3,3	4.1	4.5	4.4	3.0	2.4	1.5	2.4	2.9	0.3	1.6	1.9	Consumer prices

Source

*1 : World Development Indicators, World Bank (WB)

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

CONSUMER PRICES

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

^{*}Environmental diesel oil (road)

Indonesia

Energy balance table of Indonesia

2022

											Petajoules											
						Petrole	eum products				·						0.1					
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	r Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	13 815		1 310								2 418	98		600	1.6	1.3	1 341	0.3	3	19 586	2 043	Production
Import	251		614	1 287	735	15	201	6.3	316	14									2.9	2 155		lm port
Export	-9 351		- 91	- 178		-0.1		- 69		- 109	- 669						- 14			-10 303	- 14	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	- 377		95	-7.6					-7.6											- 290		Stock changes
Total primary energy supply	4 337		1 928	1 102	735	15	201	- 62	308	- 95	1 749	98		600	1.6	1.3	1 327	0.3	2.9	11 148	2 029	
Transfers																						Transfers
Total transformation sector	-2 597		-1 891	1 720	473	104	801	134	93	116	- 620	- 98		- 600	-1.6	-1.3				-3 283		Total transformation sector
Main activity producers	-2 597										- 768	- 98		- 600	-1.6	-1.3	- 392	-0.3	1 199	-3 260	-1 094	, · ·
Autoproducers																						Autoproducers
Gas processing				51					51		147									198		Gas processing
Petroleum refineries			-1 891	1 678	473	104	801	134	42	124										- 213		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation				-8.4						-8.4										-8.4		Other transformation
Losses & own use			- 38								- 349								- 137	- 524		Losses & own use
Discrepancy				11	15	-4.5	- 27	31		-2.9	- 18						- 54		12	- 49		· · ·
Total final consumption	1 740			2 833	1 223	115	974	102	401	18	761						880		1 077	7 292		Total final consumption
Fotal final energy consumption	1 740			2 833	1 223	115	974	102	401	18	496						880		1 077	7 027		Total final energy consumption
Industry sector	1 740			166			73	86	5.8	1.0	492						388		409	3 194	388	,
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel	992										19									1 012		Iron and steel
Chemical & petrochemical											193									193		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	264										34									298		Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco											23									23		Food, beverages and tobacco
Pulp, paper and printing	127										12									139		Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather											3.8									3.8		Textiles and leather
Non-specified industry	358			166			73	86	5.8	1.0	205						388		409	1 526		
Transport sector				2 195	1 223	115	856	1.7			0.3						338		1.2	2 534		Transport sector
Domestic air transport				115		115														115		Domestic air transport
Road				2 079	1 223		856				0.3						338			2 417	338	Road
Rail																			1.2	1.2		Rail
Inland waterways																						Inland waterways
Non-specified transport				1.7				1.7												1.7		Non-specified transport
Other sector				472			46	14	395	17	4.3						155		667	1 298		
Residential				400					385	15							129		419	948	129	Residential
Commerce and public services				22			10		11	8.0	4.2						13		248	286	13	Commerce and public services
Agriculture																						Agriculture
Fishery																						Fishery
Non-specified				51			36	14		0.7							13			64		Non-specified
Non-energy										·	265									265		Non-energy
										Elect	ricity and heat	output										
Electricity generated (GWh)	205 308			6 089						2.300	56 126	27 295		16 677	444	356	20 621	22	2	332 938	65 393	Electricity generated (GWh)
Electricity plants	205 308			6 089							56 126	27 295		16 677	444	356				332 938		
CHP plants											-2.20					230						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Energy balance table of Indonesia

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											Petajoules											
						Petrole	eum products															
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	15 532		1409								2 483	89		572	0.7	1.6	1 198	0.1		21 286	1 862	Production
mport	366		612	1 067	618		122	7.1	297	23									3.5	2 049		lm port
Export	-11 010		- 257	- 77		-5.8				- 71	- 762						-5.1			-12 110	-5.1	Export
nternational marine bunkers																						International marine bunkers
nternational aviation bunkers																						International aviation bunkers
Stock changes	-1 523		34	95	- 23	- 12	57	65	5.6	2.6										-1 394		Stock changes
otal primary energy supply	3 366		1 798	1 086	595	- 17	179	72	303	- 45	1 721	89		572	0.7	1.6	1 193	0.1	3.5	9 831	1 857	Total primary energy supply
ransfers																						Transfers
otal transformation sector	-2 837		-1 761	1 512	506	84	706	71	89	56	- 649	- 89		- 572	-0.7	-1.6	- 301	-0.1	1 112	-3 587	- 965	Total transformation sector
Main activity producers	-2 837			- 106			- 98	-7.8			- 776	- 89		- 572	-0.7	-1.6	- 301	-0.1	1 112	-3 572	- 965	Main activity producers
Autoproducers																						Autoproducers
Gas processing				49					49		127									176		Gas processing
Petroleum refineries			-1 761	1 571	506	84	804	78	40	57										- 190		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation				-1.4						-1.4										-1.4		Other transformation
osses & own use			- 38	-5.4	-2.4		-2.7	-0.2			- 311								- 127	- 481		Losses & own use
Discrepancy				163	27	3.7		- 86		191	19						- 41		0.6	141	- 41	
Total final consumption	529			2 755	1 126	70		56	392	202	779						851		989	5 903	851	Total final consumption
otal final energy consumption	529			2 571	1 126	70		56	392	18	517						851		989	5 457	851	
Industry sector	529			133	20	- 10	79		5.7	1.0	513						384		358	1 918		0, 1
Mining and quarrying	323			100			7.5	40	0.7	1.0	0.10						504		550		304	Mining and quarrying
Construction																						Construction
Iron and steel	288										20									308		Iron and steel
Chemical & petrochemical	200										202									202		Chemical & petrochemical
Non-ferrous metals											202									202		Non-ferrous metals
Non-metallic minerals	118										36									154		Non-metallic minerals
	110										36									134		Transportation equipment
Transportation equipment																						
Machinery																						Machinery
Food, beverages and tobacco	20										24									24		Food, beverages and tobacco
Pulp, paper and printing	28										13									41		Pulp, paper and printing
Wood and wood products											0.1									0.1		Wood and wood products
Textiles and leather											4.0									4.0		Textiles and leather
Non-specified industry	94			133			79	48	5.7	1.0	214						384		358	1 184	384	
Transport sector				1 973	1 122	70		0.9			0.3						302		1.1	2 277	302	
Domestic air transport				70		70														70		Domestic air transport
Road				1 902	1 122		780				0.3						302			2 205	302	
Rail																			1.1	1.1		Rail
Inland waterways																						Inland waterways
Non-specified transport				0.9				0.9												0.9		Non-specified transport
Other sector				465	3.5		50	7.7	386	17	3.2						165		630	1 263		
Residential				391					376	16							141		413	945	141	
Commerce and public services				22			11		10	0.9	3.2						12		217	255	12	
Agriculture																						Agriculture
Fishery																						Fishery
Non-specified				51			39	7.7		0.7							12			63		Non-specified
lon-energy				184						184	263									446		Non-energy
										Elect	ricity and heat	output										
lectricity generated (GWh)	189 684			6 648							56 265	24 697		15 899	193	437	14 971	6	,	308 799	56 196	Electricity generated (GWh)
Electricity plants	189 684			6 648							56 265	24 697		15 899	193					308 799		
CHP plants	.05 004			3 040							55 205	24 037		15 055	155	437	14 27 1			300 / 33	50 150	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						Heat plants CHP plants

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

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

Major energy indicators of Indonesia

Tenerspresser lease of the control o			1995	2000	2001	2002	2003	003 2	003	003	2003	2003	2003	2003	2003	003	03	2)3	2003	2003	:	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Part																																										Total
Information 450 560 150																																									11 148 19 586	Primary energy supply
Figure 148																																									2 155	
Part																																									-10 3 0 3	Import Export
. Many. 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																																									- 1	
Temple 14 06 06 07 07 07 07 07 07 07 07 07 07 07 07 07																																									7 027	Final energy consumpt
Semigration of the control of the co																																									3 194 2 534	Industry
Seminary Sem																																									948	Transport Residential
Section Sect																																							244		286	
Tree programment of the 10 of		94	135	172		176	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	186	174	155	148	8 147	1	148 131	160	198			127	116	100	80	65	60		64	Others
Tree personal part of the pers																																										Coal and peat
Second 15				565	834	868	1 158	1 158	1 158	1 158	1 158	1 158	1 158	1 158	1 158	1 158	1 158	158	1 158	1 158	1 158	158	1 073	1 235	1 421	1 784	4 1 565	17	756 1 901	2 376	2 011		2 893	2 703	2 217	2 639	2 955	3 381	3 221	3 366	4 3 3 7	P rimary energy supply
Fried 1-06 1-77 1-149 1-167 1-169 1-167 1-169 1-																																									13 815	P rod uction
Semental properties of the content o																																									251	Import
Process 1-98				-1 439																																					-9 3 5 1	Export
Marchantantantantantantantantantantantantanta																																									-2 597	Transformation sector
TREAT OF THE PROPERTY OF THE P	- 10	- 109	- 138	- 338	- 480	- 493	- 566	- 566	- 566	- 566	- 566	- 566	- 566	- 566	- 566	- 566	- 566	566	- 566	- 566	- 566	566	- 563	- 632	- 683	- 798	8 - 764	-9	900 - 840	-1 102	-1 290	-1 511	-1 540	-1 712	-1 842	-2 027	-2 226	-2 407	-2 561	-2 837	-2 597	Power generation
Transport 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	34	89	212	218	228	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	324	385	522	715	5 551	4	484 800	837	715	248	320	408	369	342	585	974	660	529	1 740	Final energy consumpt
Transport Market	3	34	89	212	218	228	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	324	385	522	715	5 551	4	484 800	837	715	248	320	408	369	342	585	974	660	529	1 740	Industry
Community pages of the control of th																																										Transport
Characteristics Characteri																																										Residential
Margang paragraphs	vices																																									Commerce & public
The series of th																																										Others
The series of th				-0.1																						0.1	1															Coal and peat products
Triple of the control				-0.1																						0.1																Primary energy supply Production
French (membranesses 2																																										Import
Prove generation: Commerce of profession																																										Export
Perspectation 0.8 0.6 0.4 0.5 0.5 0.4 0.5 0.8 0.	l .	0,6	0.6	0.8	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	8.0	0.5	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
The common of th	"																							5.0		0.0	0.5		0.17													Power generation
Including the content of the content		0.6	0.6	0.4	Λ5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.9	0.6	6 00	,	13 07	0.7	0.8	0.8	0.3	Λ3	0.6	0.6	0.2	0.2	11			
Trainaged Residential publications as particularly applications of the property of the propert																																										Final energy consump Industry
Residential plate periods	"	0.0	0.0	0.7	0.5	0.5	0.4	0.4	0.4	0.4	v.a	0.4	0.4	0.4	v.a	0.4	0.4	0.4	0.4	v.a	0.4	0.4	0.5	0.0	0.0	0.0			1.5	0.7	0.0	0.0	0.5	0.5	0.0	0.0	0.2	0.2				Transport
Commerce deplicationness of publicationness of publ																																										Residential
The Set ALL CLASS AND ALL CLAS	vices																																									Commerce & public
many emergy supply 1 672 1 984 2 188 2 128 2 173 2 167 2 210 2 188 2 023 2 101 986 2 013 1 788 1 1919 1 788 1 784 1 180 1 162 2 2401 1 192 1 1999 2 0201 1 108 1 178 1 1981 1 1991 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																																										Others
may enterly supply and products																																										Crude oil & NGL
migratify which will be served in the served by the served																																									1 928	Primary energy suppl
Expert 1-680 1-799 1-310 1-416 1-270 1-108 1-108 1-790 1-791 1-799 1-791 1-795 1-780 1-664 1-664 1-664 1-674 1-796 1-670 1-795 1-790 1-791																																									1 3 1 0	
1640 1956 2145 2149 2131 2125 2167 2066 1984 1971 1910 1974 1733 1882 1774 1779 1814 1591 1899 1894 1993 1772 1761																																									614	Import
Petroleum reflecties 1-640 1-956 2-145 2-149 2-151 2-125 2-167 2-206 1-954 1-971 1-920 1-974 1-753 1-802 1-775 1-756 1-159 1-184 1-1591 1-199 1-199 1-1994 1-1973 1-772 1-761 1-109 1-1974 1-1973 1-1974 1-1	-1 68	-1 680	-1 /69	-1 310	-1 416	-1 2/8	-1 108	-1 108	-1 108	-1 108	-1 108	-1 108	-1 108	-1 108	-1 108	-1 108	-1 108	108	-1 108	-1 108	-1 108	108	-1 048	- 936	- /91	- /93	3 - /91	- /	//5 - /88	- 664	- 624	- 614	- 546	- 6/4	- /36	- 602	- 437	- 152	- 184	- 25 /	- 91	Export
New products 1-46 -43	I																																								-1 891	Transformation secto
many mempy supply 1-66 1-43 165 308 420 418 643 540 459 746 565 617 738 1119 1522 1533 1345 1363 130 1335 1326 1170 849 1086 might be supply to the supply supply to the supply supply to the supply s	-1 64	-1 640	-1 956	-2 145	-2 149	-2 131	-2 125	-2 125	-2 125	-2 125	-2 125	-2 125	-2 125	-2 125	-2 125	-2 125	-2 125	125	2 125	-2 125	-2 125	125	-2 167	-2 096	-1 984	-1 971	1 -1 930	-19	974 -1 753	-1 882	-1 754	-1 759	-1 814	-1 591	-1 899	-1 894	-1 959	-1 963	-1 772	-1 761	-1 891	Petroleum refineries
Mapping Mapp		45.5	422	165	200	420	410	410	41.0	410	410	410	41.0	410	410	410	410	410	410	410	410	410	643	540	450	740			C 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 110	1.522	4.553	1.545	1 262	1 100	1 225	1 726	1 1 7 0	0.40	1.00.0	1 100	Petroleum products
Export -581 -754 -592 -315 -322 -315 -322 -315 -322 -315 -322 -315 -326 -329 -232 -24 -188 -207 -196 -172 -166 -162 -196 -142 -78 -90 -85 -94 -121 -77																																									1 102 1 287	Primary energy suppl
In the matter is a second section of the control of																																									-178	Import Export
Power generation																																									- 1	-
Performent refereires 1595 1944 2017 1977 1896 1911 1897 1908 1889 1618 1857 1612 1639 1832 1750 1749 1815 1749 1745 1749 1745 1749 1745 1749 1745																																									1 720	Transformation secto
Hall energy consumption 1 062 1 511 1 926 2 003 1 994 1 948 2 147 2 064 1 916 1 932 1 950 2 031 2 056 2 241 2 838 2 793 2 7160 2 625 2 587 2 984 2 807 2 744 2 245 2 571 1 04347 3 33 348 333 348 335 348 335 2 999 3 55 2 418 332 3 291 3 238 2 328 3 238 3 248 3 194 1 311 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																																									1 678	Power generation Petroleum refineries
ndustry																																									- 1	r cuoleum remiene
Transport 432 656 848 902 916 932 1065 1054 1021 1085 1220 1340 1612 1905 1921 1922 1916 1883 1994 2150 2171 1854 1973 Residential 255 317 403 339 339 339 339 339 339 339 339 339 3																																									2 833	Final energy consum
Residential 255 317 403 399 382 388 390 371 335 339 309 270 252 253 267 289 303 309 316 341 358 366 376 391 300 376 391 391 391 391 391 391 391 391 391 391																																									166 2 195	Industry
Commerce & public services 35 50 59 60 59 56 63 61 54 49 44 41 34 41 50 49 45 34 33 31 26 20 20 22	I .																																								400	Transport Residential
Defers 94 135 172 180 176 167 186 174 155 148 147 148 131 160 198 182 168 127 116 100 80 55 49 51 may energy supply 843 1 037 1 093 1 134 1 218 1 287 1 179 1 212 1 227 1 168 1 224 1 419 1 603 1 466 1 455 1 506 1 524 1 569 1 617 1 578 1 613 1 615 1 702 1 721 Production 1945 2 368 2 542 2 449 2 711 2 835 2 716 2 733 2 710 2 612 2 670 2 789 3 1 10 2 950 2 808 2 783 2 742 2 729 2 691 2 604 2 615 2 420 2 489 2 483 Export -1 102 1 332 -1 449 1 315 1 493 1 548 1 537 1 520 1 483 1 445 1 446 1 3 69 1 507 1 483 1 3 500 Export -1 102 1 332 1 449 1 315 1 493 1 548 1 537 1 520 1 483 1 445 1 446 1 3 69 1 507 1 483 1 3 500 Export -1 102 1 332 1 449 1 315 1 493 1 548 1 537 1 520 1 483 1 445 1 446 1 3 69 1 507 1 483 1 3 500 Export -1 102 1 332 1 449 1 315 1 493 1 548 1 537 1 520 1 483 1 445 1 446 1 3 69 1 507 1 483 1 3 500 Export -1 102 1 332 1 449 1 3 15 1 493 1 548 1 537 1 520 1 483 1 445 1 446 1 3 69 1 507 1 483 1 3 500 Export -1 102 1 3 32 1 4 49 1 3 15 1 4 93 1 548 1 5 37 1 5 20 1 4 83 1 4 45 1 4 46 1 3 69 1 5 0 1	I																																								22	Commerce & public
mary energy supply 843 1 037 1 093 1 134 1 218 1 287 1 179 1 212 1 227 1 168 1 224 1 419 1 603 1 466 1 455 1 506 1 524 1 569 1 617 1 578 1 613 1 615 1 702 1 721 1																										148					198										51	Others
Production 1945 2 368 2 542 2 449 2711 2 835 2 716 2 733 2 710 2 612 2 670 2 789 3 110 2 950 2 808 2 783 2 742 2 729 2 691 2 604 2 615 2 420 2 489 2 483 2 742 2 740 2 7																																										Gas
mport Export 102 -1332 -1449 -1315 -1493 -1548 -1537 -1520 -1483 -1445 -1446 -1369 -1507 -1483 -1353 -1277 -1219 -1160 -1073 -1026 -1002 -804 -787 -762 -1788 -178																																									1 749	Primary energy supply
Export -1102 -1332 -1449 -1315 -1493 -1548 -1537 -1520 -1483 -1445 -1446 -1369 -1507 -1483 -1353 -1277 -1219 -1160 -1073 -1026 -1002 -804 -787 -762 -1000 -1	1 94	1 945	2 368	2 542	2 449	2 711	2 83 5	2 83 5	2 83 5	2 83 5	2 83 5	2 83 5	2 83 5	2 83 5	2 835	2 83 5	2 83 5	835	2 835	2 83 5	2 83 5	835	2 716	2 733	2 7 1 0	2 612	2 2 670	27	789 3 110	2 95 0	2 808	2 783	2 7 4 2	2 729	2 69 1	2 604	2 615	2 420	2 489	2 483	2 4 1 8	
As provided the first state of t		1 102	1 222	1 440	1 245	1 402	1 540	1 540	1 5 4 0	1 F40	1 540	1 540	1 540	1 540	1 540	1 540	1 5/10	549	1 5/10	1 540	1 540	549	1 577	1 500	1 403	4 445	5 4445		360 1507	1 402	1 252	1 277	1 210	1 100	1.077	1.000	1.000	004	707	763		Import
Power generation -41 -224 -233 -169 -222 -225 -243 -266 -258 -265 -293 -295 -312 -333 -423 -519 -487 -504 -555 -501 -830 -873 -673 -776 -1 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2																																									- 669	E xport
Nall energy consumption 206 451 450 443 437 602 594 617 608 578 648 668 622 663 685 435 427 428 417 499 549 523 494 517 104 104 104 105 105 105 105 105 105 105 105 105 105																																									-620	Transformation secto
Industry 205 450 447 441 435 600 592 615 606 575 644 662 615 654 674 434 426 427 416 497 547 521 491 513 (Transport 1.0 0.8 0.7 0.6 0.5 0.2 0.2 0.3 0.7 1.1 1.1 1.0 0.9 0.2 0.3 0.3 0.2 0.5 0.6 0.5 0.6 0.5 0.3 0.3 0.3 0.2 0.5 0.6 0.5 0.6 0.5 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	-4	-41	- 224	- 233	- 169	- 222	- 225	- 225	- 225	- 225	- 225	- 225	- 225	- 225	- 225	- 225	- 225	225	- 225	- 225	- 225	225	- 243	- 266	- 258	- 265	5 - 293	-2		- 333	- 423	- 519	- 487	- 504	- 555	- 501	- 830	- 873	- 673	- 776	-768	Power generation
Industry 205 450 447 441 435 600 592 615 606 575 644 662 615 654 674 434 426 427 416 497 547 521 491 513 (Transport 1.0 0.8 0.7 0.6 0.5 0.2 0.2 0.3 0.7 1.1 1.1 1.0 0.9 0.2 0.3 0.3 0.2 0.5 0.6 0.5 0.3 0.3 0.3 0.2 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5																																									496	Final energy consump
Vesidential 0.2 0.4 0.8 0.8 0.9 0.9 1.0 1.1 1.2 1.6 2.0 4.1 5.5 7.3 9.2 Commerce & public services 0.5 0.7 0.8 0.5 0.7 0.7 0.7 0.8 0.7 0.7 0.8 0.6 0.8 0.2 0.6 0.9 1.0 1.4 1.4 2.3 2.6 3.2 Others icity wer generation 119 195 328 355 379 395 420 459 479 513 538 564 611 660 721 778 823 842 893 917 1 022 1 064 1 051 1 112	20	205	450																																						492	
Commerce & public services 0.5 0.7 0.8 0.5 0.5 0.6 0.7 0.7 0.7 0.8 0.7 0.7 0.8 0.6 0.8 0.2 0.6 0.9 1.0 1.4 1.4 2.3 2.6 3.2 There solutions 119 195 328 355 379 395 420 459 479 513 538 564 611 660 721 778 823 842 893 917 1 022 1 064 1 051 1 112	_																															0.2	0.3	0.3	0.2	0.5	0.6	0.5	0.3	0.3	0.3	
Others																																0.2	0.5	0.0	1.0	4.4	4.1	2.2	2.5	2.2	4.2	Residential
icity Mer generation 119 195 328 355 379 395 420 459 479 513 538 564 611 660 721 778 823 842 893 917 1 022 1 064 1 051 1 112	vices 0	0.5	0.7	0.0	0.5	0.5	0.0	0.0	0.0	0.0	d.U	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.8	D 0.7		0.7 0.8	0.6	0.8	0.2	U.b	0.9	1.0	1.4	1.4	23	2.6	32	4.2	Commerce & public
er generation 119 195 328 355 379 395 420 459 479 513 538 564 611 660 721 778 823 842 893 917 1 022 1 064 1 051 1 112																																										Others
	11	110	105	328	355	370	305	395	395	305	305	305	305	305	305	395	395	395	395	305	305	395	420	450	470	512	3 520		564 611	660	721	779	222	9.42	203	017	1 022	1.064	1.051	1 112	1 199	E lectricity
		92	157	282	302		351																420 374	459 397					490 514	581	640	683	731	755	785	802	847	891	860	909	963	Power generation Thermal
hermal 92 157 282 302 331 351 374 397 420 447 466 490 514 581 640 683 731 755 785 802 847 891 860 909 ydro 23 30 36 42 36 33 35 39 35 41 42 41 63 45 46 61 55 49 67 67 78 76 88 89																																									98	Hydro
uldear 25 30 30 42 30 33 33 35 35 41 42 41 65 43 45 61 35 45 61 61 65 65	'		20	20		20																			23		72		. 03					-,2		-		.5	50		20	Nuclear
Milers 4.1 8.0 10 11 12 11 11 24 24 25 30 34 34 35 35 35 37 38 41 48 96 97 103 113	4	4.1	8.0	10	11	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	24	24	25	5 30)	34 34	35	35	35	37	38	41	48	96	97	103	113	137	
	1/	100		287	304																								484 5>>			675		730		803	860	03/			1 077	
																																									409	Final energy consump
ndustry 51 89 122 128 133 131 145 153 157 165 173 166 184 197 217 232 237 231 245 260 298 337 318 358 Fransport 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.4 0.3 0.3 0.4 0.5 0.6 0.7 0.8 0.8 1.0 1.1 1.1 1.1		31	09																																						1.2	Industry Transport
Transport 32 61 110 120 122 129 139 148 158 170 181 198 215 234 260 278 303 319 337 340 355 371 424 413		32	61																																						419	Residential
Commerce & public services 16 29 55 56 58 65 76 84 91 101 111 120 133 144 150 165 174 180 194 202 214 226 209 217	:																																									
Thers			29	22	30	30	0.5	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	76	84	91	101	1 111	1	120 133	144	150	165	174	180	194	202	214	226	209	217	248	Commerce & public

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	2022	
Population (million) *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	275.50	Population (million) *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	1 122	Real term, billion USD (constant 2015)
GDP. billion USD (PPP. constant 2017)	823	1 160	1 2 0 3	1 247	1 3 0 3	1 3 6 6	1 434	1 5 1 6	1 599	1 7 0 1	1 803	1 887	2 004	2 128	2 256	2 381	2 501	2 622	2 754	2 8 9 4	3 044	3 197	3 131	3 247	3 718	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 0 1 6	1 042	1 119	1 059	1 187	1 319	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 0 0 9	2 084	2 175	2 265	2 377	2 488	2 5 7 0	2 696	2 8 2 6	2 960	3 086	3 203	3 323	3 453	3 5 9 2	3 741	3 892	3 780	3 893	4 074	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 8 2 9	8 213	8 6 1 1	9 016	9 4 0 2	9 759	10 122	10 519	10 942	11 397	11 858	11516	11 859	13 495	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 2 3 9	3 094	3 614	3 668	3 603	3 477	3 323	3 559	3 840	3 903	4 151	3 896	4 334	4 788	Nominal (current USD)
Nominal GDP & its components (billion of current IDR) 11																										Nominal GDP & its components (billion of current IDR) *1
Gross domestic product	196	1 100	1 390	1 646	1 822	2 014	2 296	2 774	3 339	3 9 5 1	4 949	5 6 0 6	6 864	7 832	8 616	9 5 4 6	10 570	11 526	12 402	13 590	14 839	15 833	15 443	16 977	19 588	Gross domestic product
Household final consumption expenditure	124	813	857	1 040	1 232	1 372	1 533	1 786	2 093	2 5 1 1	3 000	3 2 9 1	3 859	4 3 4 1	4 858	5 425	6 039	6 622	7 172	7 784	8 45 5	9 172	9 101	9 444	10 391	Household final consumption expenditure
General government final consumption expenditure	19	73	91	113	132	164	191	225	288	330	417	538	618	709	797	909	996	1 124	1 182	1 239	1 339	1 395	1 491	1 569	1 505	General government final consumption expenditure
Gross fixed capital formation	60	221	276	324	354	393	515	656	806	986	1 371	1744	2 128	2 452	2 819	3 051	3 437	3 782	4 040	4 371	4 79 1	5 121	4 897	5 228	5 697	Gross fixed capital formation
Stock change	4.2	22	33	47	36	123	37	40	42	- 1	6	- 7	129	131	203	178	220	144	159	211	339	227	98	111	129	Stock change
Exports of goods and services	53	391	569	643	596	614	740	945	1 036	1 1 6 3	1 475	1 3 5 4	1 668	2 0 6 2	2 119	2 2 8 4	2 501	2 4 3 9	2 367	2 742	3 117	2 944	2 677	3 634	4 800	Exports of goods and services
Imports of goods and services	50	302	423	506	481	466	632	830	856	1 0 0 3	1 423	1 1 9 7	1 538	1 8 6 8	2 153	2 3 5 9	2 581	2 3 9 5	2 274	2 606	3 27 5	3 014	2 415	3 190	4 106	Imports of goods and services
Real GDP & its components (billion of 2019 IDR) *1																										Real GDP & its components (billion of 2019 IDR) *1
Gross Domestic Product	2 820	3 928	4 122	4 272	4 464	4 678	4 913	5 193	5 478	5 8 2 6	6 176	6 4 6 2	6 864	7 288	7 727	8 1 5 6	8 565	8 983	9 435	9 913	10 426	10 949	10 723	11 120	11710	Gross Domestic Product
Household final consumption expenditure	1 510	2 488	2 527	2 615	2 716	2 822	2 962	3 079	3 176	3 3 3 5	3 513	3 684	3 859	4 0 5 4	4 278	4 5 1 2	4 750	4 980	5 232	5 492	5 774	6 072	5 91 1	6 029	6 328	Household final consumption expenditure
General government final consumption expenditure	261	268	286	307	347	382	397	424	464	482	533	616	618	652	682	728	736	775	774	791	829	856	874	911	871	General government final consumption expenditure
Gross fixed capital formation	871	909	1 061	1 130	1 183	1 190	1 365	1 513	1 552	1 697	1 899	1 9 6 1	2 128	2 3 1 6	2 528	2 6 5 4	2 772	2 9 1 1	3 042	3 229	3 444	3 598	3 419	3 549	3 687	Gross fixed capital formation
Stock change	5 270	- 4 959	- 7 109	- 8 938	- 2 795	- 9 825	- 5 361	- 7 157	- 6 200	52	- 464	441	129	118	174	124	164	113	133	127	197	130	51	63	71	Stock change
Exports of goods and services	458	699	884	890	879	931	1 056	1 232	1 348	1 463	1 602	1 447	1 668	1 9 1 4	1 945	2 0 2 6	2 048	2 0 0 4	1 971	2 147	2 286	2 275	2 084	2 458	2 858	Exports of goods and services
Imports of goods and services	477	622	783	816	781	793	1 005	1 183	1 285	1 401	1 541	1 3 1 0	1 538	1769	1 910	1 946	1 987	1 8 6 3	1 818	1 965	2 203	2 046	1 68 6	2 105	2 421	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	12.3	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	38.5	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	603.0	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 <i>A</i>	144.9	N.A.	N.A.	N.A.	149.4	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 <i>A</i>	144.5	168.8	180.1	167.7	163.3	231.5	292.0	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.A	191.7	186.6	178.2	142.7	135.7	156.9	188.7	171.3	141.6	196.2	237.4	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	0.0	62.7	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	0.0	13.2	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	0.0	4.5	Overall balance
Foreign exchange rate (IDR/USD) *1	1 843	2 2 4 9	8 422	10 261	9 3 1 1	8 577	8 939	9 7 0 5	9 159	9 141	9 69 9	10 390	9 09 0	8 770	9 387	10 461	11 865	13 389	13 308	13 381	14 237	14 148	14 582	14 308	14 850	Foreign exchange rate (IDR/USD) *1
PPP conversion factor, GDP (IDR/USD) 11	350	511	1 387	1 550	1 616	1 672	1 767	1 9 5 9	2 168	2 349	2 723	2 930	3 337	3 513	3 570	3 766	4 03 1	4 353	4 5 1 8	4 696	4761	4 751	4 671	4 739	4 9 2 2	
, , , ,	330	311	. 50.	. 550				. 555	2 100	2313	2723	2 330	333.	33.3	33,0	3 700		. 333	1310	. 050					. , , , ,	TTT CHITCHEN LOCAL, CET (ETC. CET)
Price Indices	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	167.3	Price Indices
GDP De flator (2010=100) *3	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	107.5	109.9	111.8	115.7	117.6	118.7	120.9	123.3	125.3	128.3	0.0	111.2	GDP De flator (2010=100) *3
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	105.7	109.9	116.9	124.4	132.3	137.0	142.2	146.7	151.2	154.1	156.5	163.1	Producer Price Index (2010=100) *2
	12.7	13.4	44.0	45.1	34.5	30.0	02,2	00.7	11.1	02.7	21.1	33.1	100.0	103.4	103.3	110.5	124.4	1323	137.0	142.2	140.7	1312	134.1	130.3	103.1	C onsumer Price Index (2010=100) *2
Growth rate (%) *3			4.0	3.0		4.0																	2.4			Growth rate (%) 3
Real GDP	7.2 1.8	8.2 1.6	4.9	3.6 1.4	4.5 1.4	4.8 1.3	5.0	5.7 1.3	5.5	6.3	6.0	4.6	6.2 1.3	6.2 1.3	6.0	5.6 1.2	5.0 1.2	4.9 1.1	5.0 1.1	5.1 1.0	5.2 1.0	5.0	-2.1	3.7 0.7	5.3 0.6	Real GDP
P opulation	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	13	1.3	12	1.2	1.1	1.1	1.0	1.0	0.9	0.8	0./	0.6	P opulation
Price	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	-100.0	4.7	Price
Producer prices	7.8	9.4	3.7	11.5	11.9	6.8	6.1	10.5	13.1	6.4	10.2	-4.1 4.4	5.9	5./ 5.4	4.3	6.4	6.4	6.4	3.5	3.8	3.2	3.0	1.9	1.6	4.7	Producer prices
Consumer prices	1.0	9.4	3./	11.3	11.9	0.0	0.1	10.3	13.1	0.4	10.2	4.4	3.1	3.4	4.3	0.4	0.4	0.4	2.2	0.0	3.2	210	1.9	1.0	4.2	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

Note

: 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	2022
IDR / US Dollar	9 090	8 770	9 387	12 189	12 440	13 795	13 436	13 548	14 038	13 901	14 105	14 269	15 731
USD/tonne				82.92	72.62	60.13	61.84	85.92	98.96	77.89	58.17	121.47	276.58
USD/BBL				105.85	96.51	49.21	40.13	51.19	67.47	62.37	40.39	68.47	97.03
	/ US Dollar USD/tonne	IDR /US Dollar 9 090 USD/tonne	IDR / US Dollar 9 090 8 770 USD/tonne	IDR / US Dollar 9 090 8 770 9 387 USD/tonne	IDR /US Dollar 9 090 8 770 9 387 12 189 USD/tonne 82.92	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 USD/tonne 82.92 72.62	IDR / US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 USD/tonne 82.92 72.62 60.13	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 13 436 USD/tonne 82.92 72.62 60.13 61.84	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 13 436 13 548 USD/tonne 82.92 72.62 60.13 61.84 85.92	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 13 436 13 548 14 038 USD/tonne 82.92 72.62 60.13 61.84 85.92 98.96	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 13 436 13 548 14 038 13 901 USD/tonne 82.92 72.62 60.13 61.84 85.92 98.96 77.89	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 13 436 13 548 14 038 13 901 14 105 USD/tonne 82.92 72.62 60.13 61.84 85.92 98.96 77.89 58.17	IDR /US Dollar 9 090 8 770 9 387 12 189 12 440 13 795 13 436 13 548 14 038 13 901 14 105 14 269 USD/tonne 82.92 72.62 60.13 61.84 85.92 98.96 77.89 58.17 121.47

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	IDR													
Exchange Rate	/ US Dollar	9 090	8 770	9 387	12 189	12 440	13 795	13 436	13 548	14 038	13 901	14 105	14 269	15 731
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal	USD/BOE			18.00	18.00	19.00	11.00	11.00	14.00	13.00	13.00	15.00	13.00	14.00
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG (12 kg)	USD/BOE			71.00	61.00	97.00	104.00	101.00	104.00	104.00	105.00	103.00	131.00	150.00
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	122.00
RON92	USD/BOE			178.00	185.00	205.00	167.00	144.00	161.00	197.00	186.00	170.00	170.00	263.00
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel	USD/BOE			165.00	139.00	123.00	113.00	91.00	105.00	122.00	120.00	110.00	150.00	204.00
Other Kerosene	USD/BOE			35.00	35.00	34.00	31.00	31.00	31.00	30.00	30.00	30.00	30.00	27.00
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	50.00
CN 53	USD/BOE			176.00	190.00	212.00	184.00	142.00	145.00	184.00	199.00	173.00	190.00	320.00
Fuel Oil														
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas														
Liquefied Natural Gas (export)														
Compressed Natural Gas														
Electricity														
Industrial	USD/BOE			120.00	107.00	128.00	135.00	128.00	131.00	126.00	129.00	126.00	124.00	112.00
Commercial	USD/BOE			163.00	149.00	166.00	152.00	146.00	150.00	145.00	148.00	143.00	141.00	130.00
Residential	USD/BOE			107.00	93.00	99.00	99.00	102.00	127.00	128.00	129.00	115.00	117.00	117.00
Others														
Other Energy Products														

Japan

Energy balance table of Japan

2022

											Petajoules											
		Carl	Courts sil			Petrole	um products										Other		Electricity and		Total	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear (Geothermal	Solar	Wind	renewables ¹	Others ²	heat ³	Total	Total renewables	
Production	16		14	'	•	'			'		75	278	612	113	339	33	335	259		2 074	1 099	Production
Import	4 547	25	5 618	1 733	78	32	18	78	503	1 026	3 474						116			15 513	116	Import
Export	-0.1	- 23	3	- 712	- 143	- 75	- 292	- 126	-2.1	- 73										- 736		Export
International marine bunkers				- 200			-0.9	- 198		-0.8										- 200		International marine bunkers
International aviation bunkers				- 205		- 205														- 205		International aviation bunkers
Stock changes		-3.9		- 20	-0.8	3.6	-0.9	-6.3	-7.9	-7.8	- 82									- 19		Stock changes
Total primary energy supply	4 562	-2.4		597	- 67	- 244	- 277	- 253	493	944	3 467	278	612	113	339	33	451	259		16 428	1 215	Total primary energy supply
Transfers			-0.2	-2.1		-3.3	0.9	-4.5	- 27	31										-2.3		Transfers
Total transformation sector	-4 052	612		5 196	1 523	383	1 751	467	- 29	1 101	-2 255	- 278	- 612	- 107	- 333	- 33				-4 246	-1 018	
Main activity producers	-2 434	- 99		- 263			- 15	- 167	-4.6	- 77	-2 208	- 267	- 612	- 78	- 79	- 27	- 170			-3 339	- 622	Main activity producers
Autoproducers	- 140	- 84	1	- 147			-9.5	- 41	-6.3	- 90	- 139	- 11		- 29	- 254	-6.0	- 96		622	- 319	- 396	Autoproducers
Gas processing				- 97					- 92	-5.1	92						-0.1			-4.8	-0.1	Gas processing
Petroleum refineries			-5 766	5 892	1 523	383	1 776	675	131	1 4 0 5										127		Petroleum refineries
Coal transformation	-1478	794		- 16						- 16								-4.8		- 704		Coal transformation
Other transformation			166	- 174					- 57	- 116							-0.3		3.0	-5.4	-0.3	
Losses & own use	- 16	- 100		- 257			-4.4	- 42	-3.9	- 207	- 28								- 363	- 765		Losses & own use
Discrepancy	- 157	- 10 ⁻		- 188	- 17	5.7	17	-9.7	2.1	- 185	- 22						-5.2			- 587	-5.2	
Fotal final consumption	337	409		5 346	1 440	140	1 488	158	435	1 684	1 162			5.4	6.0		180			10 827	191	
otal final energy consumption	337	380		4 262	1 440	140	1 484	138	326	735	1 152			5.4	6.0		180			9 702	191	57
Industry sector	337	373	3	690			181	57	83	369	445						113	48		3 151	113	,
Mining and quarrying				7.5			7.4			0.1									3.4	11		Mining and quarrying
Construction				67			62		0.7	4.9	2.5								23	92		Construction
Iron and steel	87	328		42			8.6	2.3	14	17	92						0.2			775	0.2	Iron and steel
Chemical & petrochemical	97	25	5	347			21	16	22	288	85						1.5	6.7	189	752	1.5	Chemical & petrochemical
Non-ferrous metals	0.9	7.2	2	14			5.1	3.0	3.0	3.3	19							1.3	42	84		Non-ferrous metals
Non-metallic minerals	104	11	1	72			20	15	5.0	31	29						6.9	25	56	304	6.9	Non-metallic minerals
Transportation equipment		1.8	3	13			3.9	0.1	6.6	2.7	25								88	128		Transportation equipment
Machinery				29			8.9		12	8.3	56								228	313		Machinery
Food, beverages and tobacco				47			28	0.7	13	5.9	77						3.2		86	213	3.2	Food, beverages and tobacco
Pulp, paper and printing	48			30			5.1	18	2.7	3.6	31						96	13	112	331	96	Pulp, paper and printing
Wood and wood products				4.3			3.5	0.1	0.1	0.6	0.7						4.2		9.6	19	4.2	Wood and wood products
Textiles and leather				6.4			2.8	0.6	2.0	1.0	8.1						0.8		12	27	0.8	Textiles and leather
Non-specified industry	0.3			11			6.0	0.3	2.6	1.7	21								70	102		Non-specified industry
Transport sector				2 613	1 440	136	940	80	17		0.7						19		60	2 692	19	Transport sector
Domestic air transport				136	0.1	136														136		Domestic air transport
Road				2 340	1 440		883		17		0.7						19			2 359	19	Road
Rail				6.4			6.4												60	66		Rail
Inland waterways				131			51	80												131		Inland waterways
Non-specified transport																						Non-specified transport
Other sector		6.4	1	959		4.8	362	0.9	225	366	705			5.3	6.0		49	40	2 089	3 860	60	Other sector
Residential				422					171	251	363			2.5	5.3		0.2		945	1 739	7.9	
Commerce and public services		6.4	1	349		4.8	192	0.9	54	98	342			2.1	0.7		48	17		1 897	51	Commerce and public services
Agriculture				116			100			17				0.3					9.4	126	0.4	·
Fishery				71			70			0.4				0.1					3.3	74	0.1	_
Non-specified														0.3				23		23	0.3	-
lon-energy		25	1.6	1 084			4.0	21	110	950	10									1 125		Non-energy
										Flects	ricity and heat	output									'	
Electricity generated (GWh)	291 849	20 410	625	40 434			2 332	19 720	1 022	7 001	343 402	77 235	56 070	2 980	92 614	9 297	36 700	38 188	623	1009 803	218 826	Electricity generated (GWh)
Electricity plants	291 849	20 410		40 434			2 332	19 720	1 022	7 001	343 402	77 235	56 070	2 980	92 614	9 297	36 700			1009 803	218 826	, ,
CHP plants	291 049	20 410	, 023	4 0 434			2 332	13720	1 022	7 00 1	343 402	11 233	30010	2 300	32 U 14	2 721	30 700	30 100	023	1005 003	210 020	CHP plants
	_										12							3		27		Heat generated (PJ)
Heat generated (PJ) Heat plants	0										12 12							3		27		Heat generated (PJ) Heat plants
man mante																						

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

Energy balance table of Japan

2021

											Petajoules	;										
		0	0			Petrole	um products										Other		Electricity and		Takal	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear G	Seothermal	Solar	Wind	renewables ¹	Others ²	Electricity and heat ³	Total	Total renewables	
Production	15		16	•					•	•	80	284	772	114	316	34	355	255		2 242	1 103	Production
Import	4 641	63	5 343	1 865	92	32	67	52	480	1 142	3 520						100			15 530	100	lm port
Export	-0.1	- 66		- 549	- 131	- 59	- 227	- 86	-1.8	- 44										- 615		Export
International marine bunkers				- 204			-2.1	- 201		-0.8										- 204		International marine bunkers
International aviation bunkers				- 168		- 168														- 168		International aviation bunkers
Stock changes		-1.7		14	-2.1	-1.7	3.7	4.7	-0.3	9.9	31									33		Stock changes
Total primary energy supply	4 656	-4.7	5 348	958	- 41	- 196	- 159	- 230	478	1 107	3 631	284	772	114	316	34	455	255		16 819	1 202	Total primary energy supply
Transfers				-2.0		-1.5	1.3	-5.0	- 24	27										-2.0		Transfers
Total transformation sector	-4 203	592		4 947	1 492	299	1 639	426		1 092	-2 409	- 284	- 772	- 108	- 310	- 34		- 166		-4 583	-1 008	Total transformation sector
Main activity producers	-2 457	- 125		- 258			- 25	- 142	-2.9	- 88	-2 343	- 273	- 772	- 80	- 69	- 28	- 175	- 128		-3 576	- 624	Main activity producers
Autoproducers	- 166	- 102		- 141			-8.8	- 38	-6.6	- 87	- 145	- 11		- 28	- 241	-6.2	- 98	- 33	623	- 348	- 384	Autoproducers
Gas processing				- 83					- 78	-4.9	79						-0.1			-4.0	-0.1	Gas processing
Petroleum refineries			-5 472	5 601	1 492	299	1 673	606	141	1 390										129		Petroleum refineries
Coal transformation	-1 580	819		- 15						- 15								-5.3		- 781		Coal transformation
Other transformation			150	- 158					- 53	- 104							-0.3		3.0	-4.8	-0.3	Other transformation
Losses & own use	- 17	- 105		- 242			- 17	- 38	-4.2	- 183	- 34								- 389	- 788		Losses & own use
Discrepancy	- 58	- 64		- 171	- 21	15	7.9	8.1	-0.3	- 180	-6.3						-3.4		- 25	- 342	-3.4	
Total final consumption	378	418		5 490	1 430	115	1473	160	450	1 862	1 181			5.4	6.5		179			11 103	191	Total final consumption
Total final energy consumption	378	388		4 265	1 430	115	1 468	142	317	792	1 171			5.4	6.5		179	88		9 833	191	Total final energy consumption
Industry sector	378	381		707			180	60	76	392	448						111	47		3 266	111	,
Mining and quarrying				7.5			7.4			0.2	0.5								3.6	11		Mining and quarrying
Construction	0.5	222		68			62	2.0	0.6	5.9	2.5						0.0	4.0	24	94	0.0	Construction
Iron and steel	95	333		40			9.2	3.2	11	17	97						0.2	1.2		806	0.2	Iron and steel
Chemical & petrochemical	105	27		369			20	20	23	305	85						1.5	6.3	1	789	1.5	Chemical & petrochemical
Non-ferrous metals	1.3 116	6.9 12		14 72			4.6	3.2 16	2.6 4.4	4.0 32	19 29						6.9	1.2 26		85	6.9	Non-ferrous metals
Non-metallic minerals	110	1.6		13			20 3.9	0.1	5.8	3.2							6.9	20	91	320 131	6.9	Non-metallic minerals
Transportation equipment		1.0					9.0	0.1	10		25 56								236	321		Transportation equipment
Machinery				29 47				0.7		9.8 7.1							2.0		90		2.0	Machinery
Food, beverages and tobacco Pulp, paper and printing	60			26			28 4.2	15	11 2.7	4.3	75 31						3.2 94	13		215 341	3.2 94	Food, beverages and tobacco Pulp, paper and printing
Wood and wood products	00			4.4			3.5	0.1	0.1	0.7	0.7						4.2	13	10	19	4.2	Wood and wood products
Textiles and leather				6.3			2.8	0.6	1.7	1.2	8.0						0.8		12	27	0.8	Textiles and leather
Non-specified industry	0.3			11			6.0	0.6	2.2	2.1	20						0.0		74	105	0.0	Non-specified industry
Transport sector	0.3			2 565	1 430	96	941	82	16	Z.1	0.9						19		60	2 645	19	Transport sector
Domestic air transport				96	0.1	96	J4 I	02	10		0.5						13		00	96	13	Domestic air transport
Road				2 334	1 430	30	888		16		0.9						19			2 354	19	Road
Rail				6.4	1430		6.4		10		0.3						13		60	66	13	Rail
Inland waterways				129			47	82											30	129		Inland waterways
Non-specified transport				123			71	02												123		Non-specified transport
Other sector		6.4		992		20	346	0.8	225	400	722			5.3	6.5		49	41	2 101	3 923	60	Other sector
Residential		0.4		433		20	340	0.0	179	254	386			2.5	5.8		0.2	41	900	1 727	8.4	Residential
Commerce and public services		6.4		372		20	176	0.8	46	130	337			2.1	0.7		48	17		1 971	51	Commerce and public services
Agriculture		0.4		116		20	100	0.0	40	17	551			0.3	J.1		40	"	9.4	126	0.4	Agriculture
Fishery				71			70			0.4				0.1					3.4	74	0.1	Fishery
Non-specified										0.1				0.3				24		24	0.3	Non-specified
Non-energy		30	4.0	1 226			5.2	18	133	1 070	9.8									1 270		Non-energy
										Elect	ricity and heat	output										
Electricity generated (GWh)	296 593	24 950	803	38 752			3 160	16 828	865	6 3 3 6	359 595	78 792	70 805	3 008	86 081	9 412	34 134	36 703	803	1039 629	211 428	Electricity generated (GWh)
Electricity plants	296 593	24 950	803	38 752			3 160	16 828	865	6 3 3 6	359 595	78 792	70 805	3 008	86 081	9 412	34 134	36 703	803	1039 629	211 428	
CHP plants																						CHP plants
Heat generated (PJ)	6										12							3		28		Heat generated (PJ)
Heat plants	6										12							3		28	I	Heat plants
CHP plants																						CHP plants

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

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Major energy indicators of Japan

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
otal Primary energy supply	18 293	20 570	21 599	21 241	21 306	21 159	21 854	21 754	21 756	21 548	20 732	19 886	20 9 15	19 376	18 899	19 035	18 362	18 102	17 935	18 027	17 749	17 293	16 107	16 819	16 428	Total P rimary energy supply
P ro duction	3 106	4 074	4 374	4 3 1 6	4 086	3 554	4 031	4 258	4 3 0 7	3 866	3 802	4 045	4 2 3 2	2 224	1 260	1 230	1 156	1 3 1 8	1 443	1 704	2 081	2 0 9 3	1 814	2 242	2 074	Production
Import Export	15 967 - 213	17 527 - 483	18 153 - 265	17 525 - 276	17 941 - 259	18 333 - 247	18 565 - 257	18 583 - 426	18 401 -481	18 819 - 652	18 313 - 851	16 788 - 758	17 846 - 751	18 210 - 613	18 756 - 590	18 959 - 747	18 22 6 - 67 8	17 9 6 4 - 7 9 6	17 630 - 805	17 557 - 776	17 01 5 - 78 4	16 506 - 845	14 926 - 497	15 530 - 615	15 513 - 736	Import Export
inal energy consumption	10 758	12 037	12 51 5	12 416	12 574	12 405	12 547	12 65 9	12 5 5 6	12 469	11 783	11 350	11 631	11 462	11 291	11 296	10 985	10 753	10 612	10 700	10 500	10 281	9 767	9 833	9 702	Final energy consumpti
Industry	4 486	4 489	4 278	4 153	4 202	4 133	4 167	4 23 0	4 2 4 9	4 226	3 833	3 637	3 8 0 3	3 825	3 757	3 760	3 65 1	3 522	3 448	3 454	3 47 5	3 344	3 167	3 266	3 151	Industry
Transport Residential	3 026 1 575	3 596 1 900	3 732 2 043	3 7 62 1 9 9 5	3 702 2 064	3 672 2 013	3 674 2 035	3 63 8 2 10 7	3 583 2 030	3 482 2 038	3 355 1 979	3 270 1 959	3 292 2 090	3 212 2 009	3 178 2 030	3 142 1 977	3 05 6 1 8 9 7	3 049 1 847	3 017 1 849	2 991 1 925	2 953 1 775	2 899 1 759	2 611 1 848	2 645 1 727	2 692 1 739	Transport Residential
Commerce & public services	1 412	1 805	2 188	2 2 2 2 5	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	2 081	2 083	2 051	1 927	1 971	1 897	Commerce & public :
Others	258	247	274	282	288	291	299	287	270	273	236	273	251	235	234	212	208	232	247	248	213	228	215	225	224	Others
land peat rimary energy supply	3 251	3 605	4 06 6	4 175	4 315	4 448	4 824	4 609	4 6 6 9	4 864	4 788	4 263	4 8 1 9	4 525	4 733	5 100	4 849	4 9 2 8	4 847	4 872	4 780	4711	4 340	4 656	4 562	C oal and peat P rimary energy supply
P ro ductio n	187	148	64	61	28	29	28	27	29	28	28	26	25	26	27	31	32	31	31	32	23	18	18	15	16	Production
Import Export	3 062 -0.1	3 461 -0.1	4 00 4 -0.1	4 1 1 4 -0.3	4 287	4 419	4 797 -0.1	4 582 -0.1	4 640 -0.1	4 836 -0.1	4 760 -0.1	4 237 -0.1	4 794 -0.1	4 499 -0.1	4 706 -0.1	5 069 -0.1	4 817	4 8 9 7 - 0.1	4 816 -0.1	4 840 -0.1	4 759 -0.8	4 693 -0.1	4 322 -0.1	4 641 -0.1	4 547 -0.1	Import Export
ransformation sector	-2 972	-3 150	-3 492	-3 618	-3 767	-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	-4 203	-4 052	Transformation sector
P ower 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	-2 623	-2 574	Power generation
inal 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	378	337	Final energy consumpti
Industry Transport	418	439	427	423	430	447	452	447	444	460	431	394	415	415	421	438	430	423	405	416	410	394	366	378	337	Industry Transport
Residential																										Residential
C ommerce & public services Others	0.5	0.6	0.5	0.6	0.6	0.7	8.0	8.0	0.8	0.7	6.7	7.3	0.8	7.1	5.0	5.1	5.1	5.0	3.3	3.0	0.6					Commerce & public s Others
land peat products																										Coal and peat products
ima ry ene rgy supply	- 40	- 92	-3.9	- 34	-3.2	-6.9	32	15	17	26	- 12	-7.0	14	-7.2	- 12	28	82	57	27	3.8	3.2	- 25	- 69	-4.7	-2.4	P rimary energy supply
P roduction Import	15	18	76	51	70	73	93	81	58	64	44	13	30	26	29	64	98	80	60	38	47	21	26	63	25	Production Import
Export	- 57	- 104	- 78	- 72	- 97	- 78	- 61	-49	- 58	- 41	- 28	- 31	- 20	- 29	- 44	- 36	-15	- 23	- 30	- 36	- 42	- 46	- 94	- 66	- 23	Export
ansformation sector	888	793	629	639	624	656	647	693	702	691	681	614	666	693	692	649	582	564	612	635	635	654	615	592	612	Transformation sector
Powergeneration	- 333	- 347	- 325	- 333	- 341	- 335	- 312	- 289	-291	- 301	- 257	- 249	- 305	- 262	- 276	- 292	- 297	-295	- 278	- 264	- 254	- 250	- 203	- 227	- 182	Power generation
inal energy consumption Industry	655 653	534 533	416 416	403 403	409 409	421 421	414 414	459 459	481 481	493 492	462 460	428 426	489 487	488 485	482 479	468 465	452 449	445 442	439 435	454 450	441 437	440 435	391 383	388 381	380 373	Final energy consumpti Industry
Transport																										Transport
Residential Commerce & public services	2.8	1.6								1.8	1.8	2.4	2.1	2.5	2.7	3.2	2.7	3.0	3.8	4.4	4.2	5.2	8.6	6.4	6.4	Residential Commerce & public s
Others										1.0	1.0	2.4	2.1	2.5	2.1	32	2.11	5.0	3.0		412	3.2	0.0	0.4	0.4	Others
de oil & NGL	0.500	0.530	0.127	0.000	0.700	0.054	0.722	0.037	0.633	0.767	0.447	7.700	7.600	7.500	7.500	7.55	7.160	7.040	5.044	6.700	6343	6247	5.052	5.240	5.740	C rude oil & NGL
rimary energy supply Production	8 500 23	9 520 31	9 127 26	8 689 25	8 708 26	8 854 28	8 733 29	8 93 7 3 1	8 632 31	8 767 33	8 417 32	7 700 31	7 698 29	7 522 29	7 580 26	7 555 23	7 168 21	7 048 20	6 941 19	6 723 18	6 343 17	6 247 18	5 062 18	5 348 16	5 719 14	Primary energy supply Production
Import	8 605	9 599	9 182	8 639	8 707	8 810	8 675	8 93 5	8 5 5 4	8 681	8 375	7 562	7 6 6 4	7 513	7 552	7 536	7 005	6 9 8 0	6 856	6 646	6 352	6 1 9 2	4 892	5 343	5 618	Import
Export	0.004	0.440	0.070	0.607	0.740	0.740	0.504	0.040	0.474	0.005	0.300	7.004	7.603	7 400	7.533	7.540	7.050	7.040	6.034		6.353		F 000	5 330	5 507	Export
Fransformation sector Petroleum refineries	-8 284 -7 607	-9 412 -9 044	-8 978 -8 986	-8 627 -8 742	-8 742 -8 793	-8 718 -8 807	-8 621 -8 683	-8 912 -8 920	-8 474 -8 541	-8 826 -8 706	-8 300 -8 299	-7 661 -7 769	-7 603 -7 683	-7 490 -7 298	-7 533 -7 253	-7 619 -7 401	-7 059 -7 009	-7 012 -6 992	-6 934 -7 033	-6 693 -6 825	-6 352 -6 527	-6 203 -6 374	-5 028 -5 189	-5 330 -5 472	-5 607 -5 766	Transformation sector Petroleum refineries
oleum products																										Petroleum products
rimary energy supply Import	1 918 2 513	1 499 2 303	1 470 2 229	1 492 2 047	1 571 2 172	1 488 2 154	1 446 2 149	1 150 2 138	1 078 2 038	756 1 883	478 1 785	640 1716	725 1 883	1 082 2 080	1 149 2 197	857 1 971	811 1918	665 1879	479 1 705	645 1 871	607 1 833	469 1764	1 133 1 841	958 1 865	597 1 733	P rimary energy supply Import
E xport	- 156	- 379	- 187	- 204	- 162	- 168	- 196	- 376	-423	- 611	- 823	- 727	- 731	- 583	- 546	- 712	- 663	-773	- 775	- 740	- 741	- 799	- 403	- 549	- 712	Export
ransformation sector	5 985	7 461	7 593	7 5 1 1	7 438	7 364	7 354	7 578	7 3 7 4	7 316	7 004	6 841	6 7 5 6	6 110	5 930	6 241	6 01 5	6 194	6 207	6 046	5 874	5 8 0 4	4 676	4 947	5 196	Transformation sector
Power generation Petroleum refineries	-1 381 7 683	-1 188 9 100	- 900 8 958	- 767 8 726	- 875 8 771	- 949 8 756	- 855 8 626	- 883 8 876	-747 8 5 1 1	- 899 8 604	- 835 8 226	- 607 7 788	- 636 7 746	- 925 7 358	-1 118 7 352	- 891 7 433	- 698 7 014	-587 7 059	- 576 7 078	- 505 6 838	- 395 6 566	- 332 6 411	- 327 5 269	- 399 5 601	- 410 5 892	Power generation Petroleum refineries
inal energy consumption	6 208	7 003	7 089	7 082	7 055	6 850	6 804	6 708	6 4 4 6	6 117	5 700	5 527	5 5 1 1	5 439	5 312	5 328	5 129	4 9 8 4	4 875	4 826	4731	4 5 9 6	4 322	4 265	4 262	Final energy consumpti
Industry	1 601	1 683	1 522	1 483	1 477	1 381	1 342	1 296	1 258	1 152	1 004	971	944	997	941	948	908	833	774	738	744	691	683	707	690	Industry
Transport Residential	2 966 574	3 528 669	3 664 728	3 694 681	3 633 710	3 604 663	3 604 671	3 566 690	3 5 1 1 6 3 7	3 410 625	3 284 580	3 200 575	3 2 1 4 6 1 2	3 136 587	3 103 589	3 065 566	2 977 532	2 9 6 9 5 0 8	2 934 505	2 907 541	2 870 461	2 8 1 8 4 7 6	2 531 491	2 565 433	2 613 422	Transport Residential
C ommerce & public services	820	892	939	980	999	964	944	919	820	711	648	556	534	528	491	578	540	479	451	427	476	416	435	372	349	Commerce & public s
Others	245	232	236	245	236	238	242	236	219	219	185	224	207	192	188	171	171	196	211	212	179	195	183	187	187	Others
rimary energy supply	1 847	2 226	2 748	2 781	2 784	2 983	2 952	2 958	3 242	3 475	3 462	3 43 9	3 601	4 204	4 356	4 409	4 427	4 2 0 6	4 310	4 186	4 01 0	3 852	3 858	3 631	3 467	Gas Primary energy supply
P ro ductio n	80 1 771	86 2 144	96	95 2 670	105 2 699	109 2 872	113	121	134	150	149 3 342	143 3 254	134 3 460	134 4 078	128	108 4 300	101	100 4 096	103 4 154	107 4 112	94 3 966	88 3 767	81 3 761	80	75 3 474	Production
Import Export	1 //1	2 144	2 657	26/0	2 699	28/2	2 846	2 841	3 105	3 350	3 342	3 254	3 4 6 0	4 0 / 8	4 258	4 300	4 366	4 096	4 154	4 112	3 966	3/6/	3 /61	3 520	3 4 / 4	Import Export
Transformation sector	-1 248	-1 458	-1 861	-1 861	-1 883	-1 976	-1 906	-1 816	-2 025	-2 218	-2 199	-2 217	-2 366	-2 934	-3 098	-3 122	-3 167	-2 9 5 9	-3 056	-2 903	-2 758	-2 587	-2 663	-2 409	-2 255	Transformation sector
P ower generation	-1 411	-1 632	-2 005	-1 993	-2 011	-2 086	-2 007	-1 907	-2 092	-2 283	-2 261	-2 280	-2 432	-3 004	-3 168	-3 193	-3 240	-3 021	-3 119	-2 972	-2 828	-2 657	-2 732	-2 488	-2 347	Powergeneration
inal energy consumption	557	751	885	886	933	960	1 014	1 088	1 2 0 7	1 281	1 229	1 170	1 198	1 234	1 214	1 192	1 180	1 192	1 176	1 229	1 208	1 2 1 5	1 118	1 171	1 152	Final energy consumpt
Industry Transport	183	270 0.1	305 1.0	307 1.6	329 2.2	348 2.8	389 3.0	434 3.6	457 4.0	471 4.2	444 4.4	425 4.3	453 4.2	477 4.1	477 3.9	449 3.6	440 3.4	438 3.0	452 2.5	453 2.2	477 1.8	454 1.4	429 1.1	448 0.9	445 0.7	Industry Transport
Residential	309	359	377	372	384	385	375	392	386	389	380	379	384	384	384	375	375	360	368	386	361	366	390	386	363	Residential
C ommerce & public services Others	66 0.1	121 0.1	202 0.1	205 0.1	218 0.1	224 0.1	246 0.1	258 0.1	360 0.1	417 0.1	401	361	357	368	349	365	361	391	353 0.1	389 0.1	369	394 0.1	299 0.1	337	342	Commerce & public Others
tricity																							V-1			Electricity
ower generation	3 102	3 516	3 798	3 735	3 806	3 778	3 883	3 958	3 974	4 073	3 967	3 907	4 190	3 974	3 930	3 955	3 861	3 796	3 832	3 864	3 814	3 7 1 1	3 629	3 743	3 635	Power generation
Thermal Hydro	1 951 316	2 057 284	2 217 303	2 172 292	2 331 291	2 444 341	2 400 336	2 437 277	2 411 319	2 701 266	2 603 278	2 449 283	2 6 6 5 3 0 2	3 105 306	3 391 276	3 397 286	3 284 301	3 128 314	3 090 286	3 006 302	2 818 291	2 687 288	2 652 284	2 594 284	2 508 278	Thermal Hydro
Nuclear	728	1 049	1 159	1 151	1 062	864	1 017	1 097	1 092	950	929	1 007	1 038	366	57	33		34	65	118	234	230	140	255	202	Nudear
Others	106	127	119	119	121	129	130	147	152	156	157	168	186	197	207	239	276	320	391	438	470	507	554	610	647	Others
I	2 753	3 138	3 502	3 443	3 506	3 483	3 604	3 689	3 7 0 5 1 4 7 7	3 821 1 507	3 679 1 361	3 560 1 296	3 728 1 364	3 588 1 298	3 569 1 293	3 562 1 300	3 50 5 1 27 8	3 4 1 8 1 2 4 1	3 423 1 234	3 473 1 246	3 404 1 250	3 3 3 8 1 2 1 6	3 288	3 325	3 264 1 143	Final energy consumpt
Final energy consumption		1 476	1 506	1 4 4 5	1 440																					
inal energy consumption Industry Transport	1 535 61	1 476 68	1 506 67	1 445 66	1 449 67	1 425 66	1 454 67	1 466 68	67	67	67	65	66	64	64	64	63	63	63	63	62	62	1 162 60	1 193 60	60	Industry Transport
Industry	1 535																								60 944 1 105	-

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	2022	
Population (million) *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	125.12	Population (million) *1
Gross domestic product *3																										Gross domestic product *3
Real term, billion USD (constant 2015)	3 5 1 0	3 786	3 987	4 002	4 004	4 065	4 154	4 229	4 287	4 3 5 1	4 2 9 7	4 053	4 219	4 220	4 2 7 8	4364	4 377	4 445	4 478	4 5 5 3	4 583	4 564	4 369	4 4 6 3	4 530	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	4 0 5 6	4 3 7 5	4 607	4 625	4 627	4 698	4 801	4 887	4 9 5 4	5 028	4 9 6 6	4 684	4 876	4 877	4 944	5 043	5 058	5 137	5 176	5 2 6 2	5 296	5 275	5 049	5 157	5 652	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 2 7 2	5 2 1 2	4 897	4 445	5 004	4 9 3 1	5 041	5 118	5 049	5 006	4 256	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	36 203	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	45 175	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	34 017	Nominal (current USD)
Nominal GDP & its components (billion of current JPY) *1																										Nominal GDP & its components (billion 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	559 710	Gross domestic product
Household 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	311 063	Household 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	120 881	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 9 19	130 141	134 355	134 788	138 309	140 648	142 533	137 560	140 608	145 314	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 1 5 8	- 707	- 250	1 043	408	1 1 4 8	2 082	1 351	-1 370	26	3 500	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	97294	101 947	97 431	83 824	99 996	120 571	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 3 5 7	92 556	103 829	96 796	83 028	93 092	101 835	99 045	85 275	102 948	141 618	Imports of goods and services
Real GDP & its components (billion of 2019 JPY) 11																										Real GDP & its components (billion of 2019 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	517817	528 200	529 765	538 032	542 088	551 170	554 716	552 485	528 847	540 177	548 312	Gross Domestic Product
Household 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	295 860	Household 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	118 857	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	132 647	Gross fixed capital formation
Stock change	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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	108 215	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	109 587	Imports of goods and services
Sectoral shares of Real GDP (%) 11																										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	1.0	
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	29.9	
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.A	69.9	69.8	69.8	69.5	69.0	69.1	68.8	68.9	70.2	
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	93.4	
External trade (billions of current USD) 11																										External trade (billions of current USD) 11
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 <i>A</i>	580.7	769.8	823.2	798.6	715.1	690.2	624.9	645.1	698.3	738.1	705.6	641.3	756.0	746.8	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	897.2	Imports, c.i.f.
Balance of payments (billion of current USD) ²																										Balance of payments (billion of current USD) *2
Trade balance	N.A.	N.A.	118.0	72.9	96.9	108.1	133.3	107.0	95.1	120.6	55.3	58.1	108.5	-4.5	-53.5	-89.6	-99.8	-7.3	51.2	43.8	10.6	1.4	26.6	16.7	-115.7	Trade balance
Current account	N.A.	N.A.	130.7	862	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	90.3	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	-13.9	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	131.50	Foreign exchange rate (JPY/USD) *1
PPP conversion factor, GDP (JPY/USD) 11	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	94.94	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	102.1	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	106.9	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	107.8	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	1.0	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	-0.4	Population
Price																										Price
	1																									
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.	1.7	Producer prices

Source

*1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: 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 counts all residents regardless of legal status or citizenship.

The values shown are midyear estimates. (from WB)

Energy prices in Japan

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	JPY	20.0	2011	20.12	20.15	2011	2015	2010	2011	20.0	20.0			
Currency Exchange Rate	/ US Dollar	86.09	78.98	82.64	99.95	109.20	120.38	108.42	111.06	110.63	108.78	106.01	109.75	135.02
Coal and Coal Products														
Coking Coal	JPY/tonne	15 081	18 680	14 319	13 495	11 863	10 557	12 015	16 325	17 716	14 980	11 094	21 829	45 647
Anthracite														
Other bituminous coal	JPY/tonne	9 818	11 334	10 493	10 788	10 115	9 096	8 772	11 405	13 346	11 018	8 413	17 967	48 732
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Oil and Oil Products														
Crude Oil	JPY/kL	45 399	56 684	59 358	69 226	61 273	37 035	32 523	39 825	50 272	46 388	28 867	54 573	87 260
Natural Gas Liquids														
Ethane														
LPG	JPY/tonne	66 137	73 099	80 213	93 177	80 574	52 957	44 734	57 814	61 587	50 171	47 268	82 278	97 974
Naphtha	JPY/kL	45 484	52 957	55 253	65 454	61 155	40 843	33 110	40 135	47 764	40 906	29 647	54 222	74 445
Motor Gasoline	JPY/kL	49 112	62 378	63 093	74 638	70 624	48 319	37 539	46 167	55 432	47 798	31 281	58 245	84 321
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel	JPY/kL	62 264	68 431	70 646	81 522	71 333	45 793	47 585	53 127	60 899	54 260	38 832	66 011	102 079
Other Kerosene	JPY/kL	61 096	67 694	77 377	89 167	66 146	46 303	50 491	57 100	61 089	55 220	39 337	69 083	107 607
Gas/Diesel Oil	JPY/kL	53 659	66 654	66 631	79 522	75 763	42 902	39 425	51 491	63 012	53 220	38 075	62 079	103 713
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	71 242	104 775
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas														
Liquefied Natural Gas	JPY/tonne	50 299	64 970	71 538	83 693	87 061	54 382	39 364	48 591	60 362	53 527	41 258	70 048	126 010
Compressed Natural Gas														
Electricity														

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	JPY / US Dollar	86.09	78.98	82.64	99.95	109.20	120.38	108.42	111.06	110.63	108.78	106.01	109.75	135.02
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG	JPY/kg	134.7	138.0	146.80	160.1	155.1	126.7	114.0	129.2	137.4	130.6	126.7	162.8	189.2
Naphtha	JPY/kL	44 531	51 352	54 633	64 710	62 608	41 951	34 216	42 426	51 348	45 074	32 900	62 048	85 768
Motor Gasoline	JPY/kL	120 921	132 183	133 880	143 076	141 577	114 892	109 051	117 943	128 527	123 620	108 213	136 978	142 561
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene	JPY/kL	68 294	78 059	80 500	89 250	85 869	59 310	54 513	64 080	76 410	72 491	56 916	85 653	91 181
Gas/Diesel Oil	JPY/kL	100 026	110 404	111 244	120 799	118 374	92 247	85 902	95 298	108 735	104 681	89 199	117 909	123 455
Fuel Oil	JPY/kL	49 101	61 192	61 950	69 451	64 149	41 106	36 197	42 181	50 328	47 387	32 259	52 470	56 905
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas														
Liquefied Natural Gas														
Compressed Natural Gas														
Electricity														

Korea

Energy balance table of Korea

2022

											Petajoules											
						Petrole	eum products				j						0.1					
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear (Seothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	15		52									13	1 921	12	106	12	145	143	1.7	2 420	289	Production
mport	2 847	7.8	5 866	1 768	0.5		1.7	133	420	1 214	2 287									12 776		lm port
Export			- 11	-2 754	- 524	- 481	-1 162	- 82	-2.8	- 502										-2 765		Export
nternational marine bunkers				- 485			- 89	- 396			-0.4									- 485		International marine bunkers
nternational aviation bunkers				- 139		- 139														- 139		International aviation bunkers
Stock changes	- 11	-2.1		21	-2.1	-0.3	8.4	4.5	-1.5	12	- 57						1.7			- 95	1.7	Stock changes
otal primary energy supply	2 851	5.7		-1 589	- 526	- 620	-1241	- 340	415	724	2 230	13	1 921	12	106	12	146	143	1.7	11 711	290	
ransfers			380	- 335	104	18	52	- 176	16	- 349										45		Transfers
otal transformation sector	-2 564	288		5 954	884	689	2 059	554	8.9	1 759	-1211	- 13	-1 921		- 104	- 12		- 50		-3 509	- 218	
Main activity producers	-1 614	- 70		- 58			-7.5	- 34	-8.7	-8.1	-1 145	- 13	-1 921		- 97	- 12		- 13		-2 835	- 195	Main activity producers
Autoproducers	- 140	- 108		- 55						- 55	- 43				-7.0		- 16	- 37	274	- 131	- 23	•
Gas processing				- 18					- 17	-0.9										- 18		Gas processing
Petroleum refineries			-7 030	6 819	884	689	2 066	588	105	2 487										- 211		Petroleum refineries
Coal transformation	- 789	466																		- 323		Coal transformation
Other transformation	- 21		788	- 733					- 70	- 663	- 23								-0.9	9.9		Other transformation
Losses & own use		- 123		- 226			-0.1	-4.2	-5.0	- 217	- 72								- 252	- 674		Losses & own use
Discrepancy	- 44	- 47		99	0.4	0.5	- 20	10	20	89	16						-2.3		- 14	12	-2.3	
otal final consumption	243	124		3 904	462	88	849	44	455	2 006	962			12			57	93		7 585	70	
otal final energy consumption	243	105 97		1 777	462	88	849	44	246	88	934			12			57	93		5 4 1 0	70	•/
Industry sector	243	97		86			5.7	25	48	7.1	329			0.2	0.1		13	80		1 991	13	,
Mining and quarrying				0.5			0.2	0.3	0.1									. 7	7.9	8.4		Mining and quarrying
Construction	22	0.7		3.1			1.6	0.1	0.3	1.1	50						0.3	0.7		4.1	0.3	
Iron and steel	33	97		2.1			0.4	0.0	2.1		58						0.0	0.8		353	0.0	Iron and steel
Chemical & petrochemical	25			19			0.1	8.2	10		79						0.2	18		431	0.2	'
Non-ferrous metals	16			1.7			0.4	0.9	0.7	0.0	19							20	28	64		Non-ferrous metals
Non-metallic minerals	81			13			0.1	8.9	1.1	2.8	20							30		189		Non-metallic minerals
Transportation equipment				7.5			3.4	2.8	1.2	0.4	30								98	135		Transportation equipment
Machinery				1.6			0.2	0.1	0.8	0.4	54								320	375		Machinery
Food, beverages and tobacco				1.5				0.4	0.8	0.3	34						1.1	5.1		95	1.1	Food, beverages and tobacco
Pulp, paper and printing				0.7				0.4	0.2		12						6.7	18		86	6.7	Pulp, paper and printing
Wood and wood products	46			0.1				0.1	0.0	0.4	1.2						1.7	0.3		10	1.7	Wood and wood products
Textiles and leather	16			0.8				0.5	0.2	0.1	8.3						0.6	2.5		83	0.6	
Non-specified industry	72			35	400		0.1	2.4	31	2.1	15			0.2	0.1		2.0	4.8		157	2.3	Non-specified industry
Transport sector				1 450	462	68	791	8.3	121		39						29		13	1 531	29	Transport sector
Domestic air transport				67	400	67	705		404		20								0.0	67		Domestic air transport
Road Rail				1 368	462		785		121		39						29		2.3 11	1 438	29	
				2.5 4.9			2.5 3.5	4.4											11	13		Rail
Inland waterways Non-specified transport				4.9 7.7		0.7	3.5	1.4												4.9 7.7		Inland waterways
		7.4		241		0.7 20	53	7.0 10	77	81	566			11	1.7		AF	42	4 022	1 888		Non-specified transport
Other sector Residential		7.4 6.7		241 84		20	53	10 7.7	21	81 56	432			1.9	0.8		15 4.8	13	1 033 357	1 888	28 7.5	Other sector Residential
Commerce and public services		0.6		75		0.3	1.5		55	17	134			7.9	0.8		9.6	13		851	1.5	Commerce and public services
		0.0		17		0.3	8.9	1.0	0.2	6.9	0.1			1.4	0.9		0.4		55	74	1.9	
Agriculture Fishery				23			22	0.4	0.2	0.9	U. I			1.4			0.4		11	34	1.9	Fishery
Non-specified				42		20		0.4	0.6	0.6									- 11	42		Non-specified
Non-energy		20		2 126		20	۷1		209	1 918	28									2 174		Non-energy
on onergy		20		2 120					203			outout.								2114		Table Chargy
Instrinity appareted (CMA)	100 274	10 722		בדד 2			020	2.042			icity and heat	•	176.054		20.010	2 272	0.145	4.704		610 173	45 400	Electricity generated (OM/L)
Electricity generated (GWh)	188 374	18 732 18 732		6 777 2 650			828 827	2 043		1 006	169 967	3 541	176 054		28 918	3 372 3 372		4 784		610 173	45 400	, ,
Electricity plants	180 760 7 614	18 /32		2 650 4 127			82/	882 1 161		116 891	125 194 44 772	3 541	176 054		28 918	3 3/2		4 142 642		552 535 57 638	44 918 482	
CUD plants				4 12/						891	44 / / 2						482	042		3/038	482	CHP plants
-				25				4.2		_	100						4.0	25		200	4.0	-
CHP plants Heat generated (PJ) Heat plants	80			35 2				13 1		8	109 13						10	25 15		260 35	10	Heat generated (PJ) Heat plants

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

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

Energy balance table of Korea

2021

											Petajoules											
17						Petrole	eum products				retajoules											
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear Ge	othermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	16		48								2.1	11	1724	11	86	11	133	148	2.2	2 194	254	Production
Import	2 860	8.8	5 548	1 933	1.6		2.7	234	383	1 311	2 260									12 611		Import
Export			- 11	-2 453	- 514	- 353	-1 035	- 54	- 13	- 484										-2 464		Export
International marine bunkers				- 441			- 76	- 365			-1.1									- 442		International marine bunkers
International aviation bunkers				- 111		- 111														- 111		International aviation bunkers
Stock changes	22	-0.1	147	11	-1.3	6.4	-3.0	-3.3	3.9	7.8	- 16									164		Stock changes
Total primary energy supply	2 898	8.7	5 732	-1 061	- 514	- 458	-1 111	- 189	374	835	2 246	11	1724	11	86	11	133	148	2.2	11 951	254	Total primary energy supply
Transfers			413	- 368	89	13	86	- 215	2.4	- 343										45		Transfers
Total transformation sector	-2 739	314	-5 920	5 652	871	545	1 924	461	61	1 789	-1 254	- 11	-1724		- 84	- 11	- 78	- 53		-3 454	- 186	Total transformation sector
Main activity producers	-1 680	- 74		- 25			-4.8	- 21			-1 168	- 11	-1724		- 79	- 11	- 61	- 16	2 128	-2 723	- 164	Main activity producers
Autoproducers	- 182	- 122		- 65						- 65	- 67				-5.7		- 17	- 37	330	- 166	- 22	Autoproducers
Gas processing				- 11					- 10	-0.7										- 11		Gas processing
Petroleum refineries			-6 595	6 381	871	545	1 929	481	121	2 434										- 213		Petroleum refineries
Coal transformation	- 860	509																		- 350		Coal transformation
Other transformation	- 18		674	- 627					- 49	- 578	- 19								-0.8	9.6		Other transformation
Losses & own use		- 133		- 230			-3.9	-4.7	-3.9	- 217	- 75								- 249	- 687		Losses & own use
Discrepancy	95	- 53	- 225	82	-2.0	- 13	2.5	- 12	-2.5	109	29								- 20	- 92		Discrepancy
Total final consumption	254	136		4 074	444	87	898	41	431	2 173	946			11	1.8		56	94	2 191	7 763	68	Total final consumption
Total final energy consumption	254	115		1 870	444	87	898	41	249	152	906			11	1.8		56	94	2 191	5 499	68	Total final energy consumption
Industry sector	254	108		184			46	25	49	64	321			0.2	0.1		13	80	1 145	2 105	14	Industry sector
Mining and quarrying				1.8			1.5	0.2	0.1										7.8	9.6		Mining and quarrying
Construction				27			26	0.3	0.3	0.8							0.3	0.8		28	0.3	Construction
Iron and steel	34	107		2.7			0.2		2.5		58							0.8	160	363		Iron and steel
Chemical & petrochemical	26			74			0.4	8.9	10	54	72						0.2	18	297	488	0.2	Chemical & petrochemical
Non-ferrous metals	14			1.4			0.1	0.8	0.5		18								28	62		Non-ferrous metals
Non-metallic minerals	81			20			5.3	8.7	0.7	5.6	21						0.2	30	45	198	0.2	Non-metallic minerals
Transportation equipment				7.1			3.9	1.9	1.2		29								97	133		Transportation equipment
Machinery				3.2			1.8	0.1	0.9	0.3	52								316	372		Machinery
Food, beverages and tobacco				1.9			0.2	0.5	0.8	0.3	34						1.0	5.1	53	95	1.0	Food, beverages and tobacco
Pulp, paper and printing				0.9			0.3	0.4	0.2		12						6.6	18	50	87	6.6	Pulp, paper and printing
Wood and wood products				0.3			0.2	0.1			1.1						1.4	0.3	7.2	10	1.4	Wood and wood products
Textiles and leather	16			0.8			0.1	0.3	0.2	0.2	8.8						0.7	2.5	57	86	0.7	Textiles and leather
Non-specified industry	81			42			6.2	2.6	31	2.4	15			0.2	0.1		2.8	5.1	28	175	3.1	Non-specified industry
Transport sector				1 409	444	68	769	6.6	122	0.2	40						27		13	1 490	27	†
Domestic air transport				68		68	0.1													68		Domestic air transport
Road				1 321	444		755		122		40						27		2.3	1 391	27	
Rail				3.0			3.0		_										11	14		Rail
Inland waterways				17			10	6.6		0.2										17		Inland waterways
Non-specified transport																						Non-specified transport
Other sector		7.8		277	0.1	19	83	9.2	77	88	545			11	1.7		15	14	1 033	1 903	27	†
Residential		7.1		116			11	7.2	31	66	418			1.8	0.8		4.4		362	910	7.0	
Commerce and public services		0.7		70	0.1	0.4	10	1.0	45	13	127			7.5	0.9		10	14		836	19	
Agriculture				18			9.8	0.5	0.2	8.0	0.1			1.3			0.3		54	75	1.6	1
Fishery				32			32	0.5	۷.2	5.5	5 .1			5			2.5		11	43	1.0	Fishery
Non-specified				40		19			0.6	0.5									- 1	40		Non-specified
Non-energy		21		2 204					183		40									2 265		Non-energy
3)				2 201							icity and heat	outout							i	2 2 2 3 3		1
Electricity represented (CMA)	179 775	23 171		8 166			529	2 222			193 294	3 055	158 015		23 395	3 182	7 505	E 660		605 777	37 592	Flootrieit connected (CMIL)
Electricity generated (GWh)	168 526	23 171		3 551				3 232		1 473	144 946	3 055	158 015		23 395	3 182		5 660		540 516	37 592 37 182	, ,
Electricity plants		23 1/1		3 551 4 615			529	2 079 1 153		109 1 363		3 055	138 013		23 393	3 182		5 020				
CHP plants	11 248										48 349						410 9	640		65 261	410	'
	95			39				13		11	110						9	25		280	9	Heat generated (PJ)
Heat generated (PJ) Heat plants				2				1			6							15		27		Heat plants

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

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

Major energy indicators of Korea

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
otal Primary energy supply	3 748	6 106	7 779	7 781	8 166	8 297	8 566	8 724	8 797	9 148	9 269	9 409	10 2 0 8	10 694	10 767	10 785	10 914	11 190	11 560	11 758	11 947	11 562	11 277	11 951	11 711	Total P rima ry ene rgy supply
P ro ductio n	922	879	1 360	1 387	1 455	1 585	1 607	1 796	1 829	1 778	1 869	1 852	1 878	1 965	1 933	1 822	2 051	2 147	2 147	2 050	1 890	2 020	2 205	2 194	2 420	Production
Import	3 031	6 198	8 62 6	8 5 2 0	8 404	8 445	8 863	8 77 6	9 2 7 5	9 456	9 816	9 973	10 9 0 9	11 627	11 781	11 881	11 953	12 333	12 741	13 200	13 659	13 095	12 116	12 611	12 776	Import
Export	- 159	- 659	-1 714	-1 683	-1 341	-1 199	-1 349	-1 496	-1 638	-1 647	-1 882	-1 856	-1 917	-2 298	-2 463	-2 381	-2 471	-2 628	-2 691	-2 798	-2 970	-2 903	-2 585	-2 464	-2 765	Export
nal energy consumption	2 451	3 732	4 253	4 3 0 8	4 495	4 575	4 616	4 687	4 649	4 797	4 777	4 758	5 129	5 204	5 188	5 199	5 088	5 2 7 9	5 368	5 509	5 543	5 4 5 8	5 310	5 499	5 410	Final energy consumpti
Industry	851 610	1 263 1 016	1 583 1 100	1 574 1 147	1 635 1 222	1 671 1 249	1 717 1 259	1 722 1 221	1 742 1 222	1 837 1 264	1 857 1 207	1 793 1 225	2 0 1 8 1 2 5 3	2 113 1 233	2 054 1 266	2 042 1 312	1 993 1 333	2 052 1 417	2 022 1 459	2 099 1 489	2 127 1 467	2 040 1 531	1 990 1 429	2 105 1 490	1 991 1 531	Industry
Transport Residential	478	422	639	671	700	706	710	751	764	754	772	770	823	835	835	834	780	786	851	888	906	875	892	910	887	Transport Residential
Commerce & public services	390	778	715	697	727	751	745	808	750	770	784	806	858	848	851	823	814	852	878	865	875	849	836	836	851	Commerce & public
Others	122	253	216	219	210	198	185	185	171	172	156	165	178	176	181	187	169	173	158	169	167	164	163	158	150	Others
land peat	920	1 169	1 618	1 721	1 801	1 843	1 939	1 992	2 047	2 181	2 433	2 523	2 848	3 094	2 968	3 025	3 107	3 140	3 154	3 376	3 419	3 196	2 859	2 898	2 851	C oal and peat
rima ry ene rgy supply P ro ductio n	292	97	70	65	56	56	54	48	48	51	49	44	37	37	36	31	30	30	29	26	21	19	18	16	15	Primary energy supply Production
Import	592	1 085	1 573	1 644	1 727	1 764	1 942	1 885	1 953	2 108	2 381	2 450	2 821	3 082	2 937	2 963	3 069	3 158	3 140	3 352	3 361	3 2 1 6	2 813	2 860	2 847	Import
Export																										Export
ransformation sector	- 868	- 963	-1 528	-1 622	-1 736	-1 780	-1 923	-1 973	-2 041	-2 140	-2 406	-2 556	-2 856	-3 092	-3 038	-3 027	-3 120	-3 086	-3 038	-3 250	-3 284	-3 131	-2 744	-2 739	-2 564	Transformation sector
Powergeneration	- 213	- 464	-1 019	-1 113	-1 212	-1 245	-1 381	-1 417	-1 478	-1 539	-1 747	-1 974	-2 119	-2 229	-2 186	-2 181	-2 166	-2 206	-2 162	-2 348	-2 400	-2 242	-1 890	-1 862	-1 754	Power generation
inal energy consumption	112	195	234	257	281	307 307	281	277	288 288	298	307 307	291	310	367 367	294	304 304	295	346	291	265	298	251	233	254	243	Final energy consumpt
Industry Transport	112	195	234	257	281	307	281	277	200	298	307	291	310	307	294	304	295	346	291	265	298	251	233	254	243	Industry Transport
Residential																										Residential
Commerce & public services																										Commerce & public s
Others																										Others
and peat products imary energy supply	3.5	5.4	7.5	6.7	7.9	10	17	8.5	7.8	15	20	7.8	14	12	11	11	12	11	11	5.7	10	6.7	7.5	8.7	5.7	C oal and peat products Primary energy supply
P ro duction																										Production
Import	3.5	5.4	7.5	6.7	7.9	10	17	8.5	7.8	15	20	7.4	17	12	11	11	12	11	10	9.5	10	8.7	7.6	8.8	7.8	Import
Export							_	_	_	_		_														Export
ansformation sector	482 - 55	222 - 79	195 - 93	191 - 93	195 - 100	198 - 105	197 - 108	209 - 100	217 - 99	236 - 109	262 - 117	246 - 88	318 - 119	339 - 188	351 - 174	304 - 170	335 - 185	295 -179	311 - 182	315 - 190	324 - 194	312 - 194	302 - 195	314 - 196	288 - 178	Transformation sector
P ower generation																										Power generation
inal energy consumption	385 54	139 87	111 91	108 87	111 90	117 96	126 102	127 92	111 71	140 104	160 120	146 112	207 174	168 135	179 146	133 99	134 105	132 106	120 98	125 106	128 112	118 107	111 102	115 108	105	Final energy consumpt
Industry Transport	34	01	31	07	30	50	102	32	/ 1	104	120	112	174	133	140	33	103	100	90	100	112	107	102	100	31	Industry Transport
Residential	301	51	17	11	11	11	12	18	22	20	23	20	19	19	18	19	16	14	14	12	10	10	8.0	7.1	6.7	Residential
Commerce & public services	21	0.2	0.8	1.4	1.3	1.3	5.4	7.3	7.9	6.6	7.0	5.6	5.1	6.0	6.8	7.9	6.7	6.1	6.3	5.3	4.4	1.0	8.0	0.7	0.6	Commerce & public :
Others	8.7	0.9	2.5	8.6	8.5	8.4	6.1	9.0	11	10	11	8.8	8.2	8.1	7.8	7.8	6.7	6.1	2.7	2.2	1.9					Others
de oil & NGL rimary energy supply	1 810	3 764	5 29 6	5 0 6 0	4 648	4 563	4 942	4 974	5 1 0 1	5 111	5 026	4 815	5 0 6 6	5 360	5 464	5 312	5 380	5 9 0 3	6 218	6 407	6 504	6 0 8 4	5 669	5 732	5 859	C rude oil & NGL P rima ry energy supply
P ro duction			28	24	22	21	18	22	24	24	22	29	29	30	30	25	33	28	29	32	34	34	41	48	52	Production
Import	1 787	3 736	5 267	5 079	4 624	4 616	4 879	4 913	5 140	5 060	4 976	4 92 5	5 090	5 356	5 488	5 255	5 377	5 9 5 0	6 250	6 399	6 40 6	6 1 2 6	5 636	5 548	5 866	Import
Export		-1.0	-4.1	-4.3	-5.3	-1.8	-0.5	-0.1	-0.1	-1.1	- 10	- 14	- 20	- 24	- 15	- 12	-6.0	- 14	- 22	- 15	- 26	-4.7	-2.7	- 11	- 11	Export
ransformation sector	-1 780	-3 776	-5 141	-5 004	-4 632	-4 543	-4 748	-4 968	-5 042	-5 024	-4 925	-4 768	-4 939	-5 248	-5 387	-5 190	-5 253	-5 784	-6 083	-6 382	-6 521	-6 472	-6 039	-5 920	-6 242	Transformation sector
Petro leum refineries roleum pro ducts	-1 780	-3 840	-5 358	-5 227	-4 903	-4 809	-5 005	-5 190	-5 307	-5 345	-5 241	-5 093	-5 232	-5 590	-5 727	-5 519	-5 630	-6 193	-6 526	-6 885	-7 041	-6 982	-6 519	-6 595	-7 030	Petroleum refineries Petroleum products
rimary energy supply	272	51	-1 149	-1 049	- 566	- 543	- 908	-1 102	-1 307	-1 156	-1 274	-1 022	-1 083	-1 437	-1 393	-1 269	-1 346	-1 604	-1 621	-1 840	-1 884	-1 712	-1 427	-1 061	-1 589	P rimary energy supply
Import	538	1 040	1 031	1 038	1 162	1 108	957	875	936	1 020	1 103	1 325	1 3 8 3	1 380	1 567	1 692	1 67 1	1 574	1 697	1 593	1716	1 739	1 692	1 933	1 768	Import
Export	- 159	- 658	-1 710	-1 678	-1 335	-1 197	-1 348	-1 496	-1 638	-1 646	-1 872	-1 842	-1 897	-2 274	-2 448	-2 369	-2 465	-2 614	-2 669	-2 782	-2 944	-2 898	-2 582	-2 453	-2 754	Export
ransformation sector	1 634	3 373	4 713	4 5 8 4	4 294	4 259	4 438	4 652	4 740	4 681	4 678	4 489	4 652	4 960	5 058	4 917	5 048	5 476	5 691	6 037	6 22 6	6 2 6 2	5 827	5 652	5 954	Transformation sector
Power generation Petroleum refineries	- 189 1 823	- 414 3 850	- 337 5 260	- 343 5 142	- 253 4 809	- 255 4 771	- 287 4 994	- 271 5 167	-263 5282	- 295 5 290	- 181 5 176	- 211 5 026	- 213 5 169	- 186 5 505	- 244 5 660	- 222 5 462	- 154 5 569	- 177 6 050	- 195 6 321	- 127 6 630	- 135 6 850	- 104 6 836	- 80 6 358	- 91 6 381	- 114 6 819	Power generation Petroleum refineries
	1 546		2 296	2 249		2 233	2 137	2 063	1 9 6 1		1 819		1 839	1 771		1 729	1716	1 822	1 871	1 898	1 856		1 828	1 870	1 777	
nal energy consumption Industry	456	2 535 580	459	417	2 284 408	377	351	334	329	1 951 306	271	1 803 244	247	217	1 735 174	146	145	143	150	150	153	1 899 153	172	184	86	Final energy consumpt Industry
Transport	606	1 010	1 092	1 138	1 211	1 235	1 241	1 199	1 194	1 229	1 163	1 171	1 189	1 167	1 197	1 241	1 261	1 343	1 381	1 409	1 383	1 447	1 349	1 409	1 450	Transport
Residential	80	106	162	184	180	158	141	133	144	130	132	123	125	134	122	124	119	127	148	153	142	130	117	116	84	Residential
C ommerce & public services	296 108	607 232	388 194	320 188	306 179	296 167	250 154	248 150	162 133	153 134	139 115	142 123	144 133	124 129	114 128	90 129	79 112	99 110	99 94	81 105	78 100	69 100	89 101	70 91	/5 81	Commerce & public
Others	100	232	134	100	113	107	1,74	130	133	134	112	123	133	123	120	123	112	110	24	103	100	100	101	21	01	Others
imary energy supply	111	334	744	743	897	915	1 049	1 144	1 2 0 7	1 306	1 273	1 324	1 571	1 783	1 867	1 957	1 786	1 656	1 715	1 830	2 07 6	2 030	2 032	2 246	2 230	P rimary energy supply
P ro ductio n							8.0	20	17	13	8.9	19	20	17	16	17	12	7.1	5.8	13	12	10	7.0	2.1		Production
Import	110	331	746	750	881	946	1 067	1 093	1 237	1 253	1 335	1 265	1 5 9 7	1 797	1 778	1 959	1 823	1 639	1 644	1 847	2 166	2 0 0 5	1 968	2 260	2 287	Import
Export																					4 000		4 000			Export
ransformation sector	- 86 - 86	- 181 - 181	- 241 - 241	- 268 - 268	- 328 - 328	- 330 - 330	- 442 - 442	- 463 - 463	- 557 - 557	- 608 - 608	- 605 - 605	- 527 - 527	- 764 - 764	- 846 - 846	- 948 - 948	-1 041 -1 041	- 930 - 930	-832 -832	- 880 - 880	- 891 - 891	-1 093 -1 093	-1 043 -1 035	-1 083 -1 071	-1 254 -1 235	-1 211 -1 188	Transformation sector
Power generation																										Power generation
nal energy consumption Industry	38 9.0	205 33	471 124	490 135	540 150	571 155	601 166	668 177	680 185	711 208	751 235	766 242	861 295	896 334	936 370	955 393	823 303	818 300	839 293	888 317	911 310	890 310	873 297	906 321	934 329	Final energy consump Industry
Transport				0.3	3.0	5.5	8.9	13	18	23	29	36	42	44	47	49	49	48	48	47	47	46	41	40	39	Transport
Residential	17	138	277	284	306	321	325	352	348	348	352	353	382	381	382	378	344	344	363	386	411	395	410	418	432	Residential
C ommerce & public services	11	34	69	71	80	89	100	125	128	133	135	135	142	136	136	135	126	126	134	138	144	139	124	127	134	Commerce & public
) thers			0.5	8.0	0.7	0.9	0.9	1.0	1.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2		0.1	0.1	
icity wer generation	393	664	1 03 5	1 1 1 1 0	1 170	1 239	1 328	1 389	1 454	1 456	1 515	1 561	1 700	1 882	1 914	1 924	1 924	1 9 6 7	2 007	2 037	2 108	2 034	2 055	2 181	2 197	E lectricity Power generation
Thermal	180	412	628	691	729	753	840	845	904	925	955	1 011	1 141	1 294	1 343	1 388	1 325	1 3 2 9	1 359	1 427	1 534	1 3 9 8	1 340	1 456	1 382	Thermal
Hydro	23	10	14	15	12	18	16	13	12	13	11	10	13	17	14	15	10	7.7	10	10	12	10	14	11	13	Hydro
Nuclear Others	190	241 0.9	392 0.4	404 0.5	429 0.9	467 1.0	471 1.5	528 1.7	535	515 3.9	543 5.5	532 7.7	535 11	557 14	541 15	500 21	563 26	593 37	583 54	534 66	481 81	525 100	577	569 145	634 168	Nudear
Others									2.5														124			Others
nal energy consumption	340 208	588 335	947 541	1 0 14 5 5 2	1 083 578	1 145 607	1 217 638	1 287 662	1 3 3 7 6 8 2	1 408 722	1 439 721	1 461 718	1 618 821	1 694 886	1 733 902	1 754 921	1 753 935	1 783 945	1 862 955	1 884 988	1 913 1 004	1 886 981	1 846 945	1 929 992	1 950 1 003	Final energy consump
Industry Transport	3.6	5.8	7.3	8.1	8.2	8.4	8.9	9.4	9.1	8.8	8.0	7.8	7.9	8.1	8.1	7.8	7.2	8.0	10	10	11	11	12	13	13	Industry Transport
Residential	64	102	134	141	152	160	175	183	189	195	202	208	221	223	230	230	227	230	248	240	244	243	255	267	270	Residential
C ommerce & public services	59	133	246	291	323	348	371	407	430	454	477	495	532	540	549	548	535	548	592	588	595	589	574	591	598	Commerce & public
Others	5.2	12	19	22	22	21	23	25	26	28	30	33	36	38	43	47	49	53	58	58	60	62	61	66	66	Others

Major economic indicators of Korea

Section of the content of the cont		1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Part	Population (million) *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	5122	51.36	51.59	51.76	51.84	51.74	51.67	Population (million) *1
Part	Gross domestic product *3																										Gross domestic product *3
Control properties Control		401	605	799	838	902	931	979	1 021	1 075	1137	1 172	1 181	1 261	1 308	1 3 3 9	1 381	1 426	1 466	1 509	1 5 5 7	1 602	1 638	1 626	1 694	1 741	
Member																											
OF Control 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														1 144		1 2 7 8											
Mathematical Control																											
Content processed proces		0.265	12.400	16 002	17 601	19 027	10 /12 2	20.261	21 102	22 102	22 261	22 002	22 0/18	25 //51	26 197	26.675	27 205	29 005	20 722	20.462	20 207	21.054	21 640	21 272	22 721	33 600	
Memoration of the content of the c																20015											
Process Proc																											
Consideration countering consistent countering consistent countering consistent countering consistent countering consistent countering counte	, ,	0010	12 303	12 231	11 301	13 103	14 0/3	10 450	13 403	21743	24000	21330	15 144	23 007	23 030	23401	27 103	23 230	20 132	25 205	31017	33 437	31 302	31 721	34 330	32 353	` '
Membring production consistent or production		201	427	653	707	705	027	000	057	1.006	1.000	1154	1 205	1 222	1 200	1.440	1 501	1 563	1 650	1 7/1	1.026	1 000	1.024	1 041	2.072	2 162	
Consist section of Section S	· ·														. 555												·
Considerate furnisses Cons																											
Sectionary Sections of the section																											
Purplish grows a series Fig. Fi			162	207	21/	238	262																				
Immonity of your work work work work work work work wor			8	224	5	0	9												-								
Mathematic plane and property																											
Consider Product 45. 68. 68. 69. 69. 69. 71.		52	117	210	215	224	249	302	310	332	398	333	494	380	/23	740	700	009	599	383	004	/08	/02	034	/9/	1 043	
Ministry	Real GDP & its components (billion of 2019 KRW)																										Real GDP & its components (billion of 2019 KRW)
Consist of Consist o	Gross Domestic Product																										Gross Domestic Product
Green from England Formation (Short Change) 176 286 281	Household final consumption expenditure									0.10																	Household final consumption expenditure
Sectionary Conditional Services 11	General government final consumption expenditure																										General government final consumption expenditure
Export of prodes and services 58 17 29 27 27 28 28 28 28 28 28	Gross fixed capital formation	176	286	306	313	336	354			384		401	402			431	443	457	481	513					573	573	Gross fixed capital formation
Product of grown and services 1	Stock change	7	5		8	9	7				27						5	6	-						8	13	Stock change
Sectors A mass of Real COP (%) " Agriculture, Fishing and Freed (%) " Fishing and Freed (%) " Agriculture, Fishing and Freed (%) " Agriculture	Exports of goods and services																										Exports of goods and services
Agriculture, Flamery and Forestry inclosing registery inclosed registery incl	Imports of goods and services	85	172	232	224	257	284	318	343	386	430	444	413	485	556	570	580	587	599	630	686	698	685	663	730	756	Imports of goods and services
Producty Fire Producty F	Sectoral shares of Real GDP (%) 1																										Sectoral shares of Real GDP (%) 11
Services, etc. Services, etc. Servi	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	1.7	Agriculture, Fishery and Forestry
Industrial production mades (2010-100) 9 40 603 93.6 93.6 93.6 94.9 95.0 99.8 95.5 199.6 114.4 115.5 94.7 100.0 102.0 99.7 96.6 94.9 93.9 95.7 98.7 100.2 100.1 10	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	33.6	Industry
Elema Itrade (pillone) of current USD) '' Elema Itrade pillone of current USD) '' Elema Itrade (pillone) of current USD) '' Elema Itrade pillone of current USD '' Elema Itrade (pillone) of current USD	Services, etc.	53.4	54.7	54.9	55.6	55.9	55.6	54.5	54.6	54.4	54 <i>A</i>	54.8	55.5	54.6	54.7	55.2	55.5	55.4	55.6	55.6	55.3	55.8	56.4	56.3	56.1	56.9	Services, etc.
Exports, f. o. 0. 650 125.1 172.3 150.4 162.5 193.8 253.8 264.4 325.5 371.5 422.0 363.5 466.4 552.5 254.6 556. 573.5 575.6 456.5 465. 573.5 575.	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	0.0	126.5	Industrial production index (2010=100) *2
Imports, c.l.f. 698 135.1 160.5 141.1 152.1 178.8 22.4 25.2	External trade (billions of current USD) *1																										External trade (billions of current USD) 11
Balance of payments (billion of current USD) ? 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 0.0 15.6 Current account -2.8 -10.2 10.2 2.2 4.1 11.3 29.3 12.2 2.1 10.5 18. 33.1 28.0 16.6 48.8 77.3 83.0 105.1 97.9 75.2 77.5 59.7 75.9 69.7 75.9 82.2 25.8 Overall balance -0.5 8.3 24.5 1.4 10.3 20.4 19.0 13.5 12.2 8.5 48.2 74.5 13.3 76.1 13.5 12.0 10.2 12.0 10.2 12.0 10.2 12.0 10.2 12.0 10.2 12.0 10.2 12.0 10.2 12.0 10.2 12.0 10.3 12.0 11.5 12.0 13.3 76.1 13.5 12.0 10.5 18.8 31.0 105.1 97.9 75.2 77.5 59.7 75.9 87.7 59.7 75.9 85.2 25.8 80.6 0.0 15.6 Tradrent account Overall balance -0.5 8.3 24.5 1.4 10.3 20.4 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	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 <i>A</i>	683.6	Exports, f. o.b.
Trade braining 1 - 3.7 7.7 15.4 9.4 14.4 2.1 39.2 32.5 24.5 32.4 11.7 48.1 47.9 28.0 48.8 77.3 83.0 105.1 97.9 75.2 77.5 75.9 85.2 25.8 Current parameter (Communication of the communication of	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	731 <i>A</i>	Imports, c.i.f.
Current account Overall balance Overall balanc	Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Overall balance Overall balanc	Trade balance	-3.7	-7.0	154	9.4	14.4	22.1	39.2	32.5	24.5	32.A	11.7	48.1	47.9	28.0	48.6	80.3	86.1	120.3	116.5	113.6	110.1	79.8	80.6	0.0	15.6	Trade balance
Foreign exchange rate (KRW/USD) '' 77.77 77.125 1130.36 1290.79 1251.60 1191.65 1146.25 1024.33 955.34 929.38 1100.13 1277.25 1156.46 1108.23 1126.81 1094.98 1052.84 1130.95 1160.77 1131.00 1100.16 1165.36 1180.27 1143.95 1291.45 Foreign exchange rate (KRW/USD) '' PPP conversion factor, GDP (KRW/USD) '' 747.74 756.70 769.77 791.29 794.71 788.92 772.22 770.09 785.72 828.42 840.99 854.59 854.89 869.08 871.88 857.48 858.18 872.62 854.87 856.43 837.67 854.10 810.43 PPP conversion factor, GDP (KRW/USD) '' PPP conversion facto	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	0.68	105.1	97.9	75.2	77.5	59.7	75.9	85.2	25.8	Current account
Price Indices GDP Deflator (2015=100) "3 Producer Price Index (2010=100) "2 Consumer Price Index (2010=100) "2 Consumer Price Index (2010=100) "3 Real GDP Real	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	0.0	-29.1	Overall balance
PPP conversion factor, GDP (KRW/USD) '1 559.92 71.70 747.74 756.70 769.70 791.29 794.71 788.92 772.22 770.09 785.72 828.82 840.99 854.59 854.89 869.08 871.88 857.48 858.81 872.62 854.87 856.43 837.67 854.10 810.43 PPP conversion factor, GDP (KRW/USD) '1 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 88.7 88.9 85.7 88.9 85.7 88.9 85.7 88.9 85.1 90.0 102.0 104.3 104.8 103.9 105.5 108.1 109.8 GDP Deflator (2015=100) '3 Price Indices (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 0.0 124.7 Consumer 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 0.0 124.7 Consumer Price Index (2010=100) '2 Consumer Price Index (2010=100) '2 Consumer Price Index (2010=100) '2 (2010	Foreign exchange rate (KRW/USD) *1	707.77	771.25	1 130.36	1 290.79	1 251.60	1 191.65	1146.25	1 024.33	955.34	929.38	1 100.13	1 277.25	1 156.46	1 10823	1 126.81	1 094.98	1 052.84	1 130.95	1 160.77	1 131.00	1 100.16	1165.36	1 180.27	1 143.95	1 291.45	Foreign exchange rate (KRW/USD) *1
GDP Defiator (2015=100) "3		559.92	717.70	747.74	756.70	769.77	791.29	794.71	788.92	772.22	770.09	785.72	828 <i>A</i> 2	840.99	854.59	854.89	869.08	871.88	857 <i>A</i> 8	858.81	872.62	854.87	856 <i>A</i> 3	837.67	854.10	810.43	PPP conversion factor, GDP (KRW/USD) *1
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 0.0 1209 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 0.0 124.7 Consumer Price Index (2010=100) *2 Consumer Price Index (2010	Price Indices																										Price Indices
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 0.0 124.7 Consumer Price Index (2010=100) 2 Growth rate (%) 3 Real GDP 99 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 2.6 Real GDP Population Price Producer prices 42 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 -100.0 9.3 Producer prices	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	902	92.7	93.9	95.1	96.0	96.9	100.0	102.0	104.3	104.8	103.9	105.5	108.1	109.8	GDP Deflator (2015=100) *3
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 0.0 124.7 Consumer Price Index (2010=100) 2 Growth rate (%) 3 Real GDP Population 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 -100.0 93 Producer prices	` ,	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	0.0	120.9	, ,
Growth rate (%) '3 Real GDP 99 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 2.6 Real GDP Population Price Producer prices 42 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 -10.0 9.3 Producer prices		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	0.0	124.7	
Population 1.0 1.0 0.8 0.8 0.6 0.5 0.4 0.2 0.5 0.8 0.5	40																										Growth rate (%) *3
Population 1.0 1.0 0.8 0.8 0.6 0.5 0.4 0.2 0.5 0.8 0.5 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.6 0.5 0.4 0.3 0.4 0.3 0.1 -0.2 -0.2 Propulation Price Price 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 -100.0 9.3 Producer prices		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	2.6	
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 -100.0 9.3 Producer prices				0.8			0.5						0.5	0.5	0.8	0.5								0.1	-0.2	-0.2	
Producer prices 42 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 -100.0 9.3 Producer prices																											
1 Todado priodo		42	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	-100.0	9.3	
	Consumer prices	8.6	4.5	2.3			3.5	3.6		2.2	2.5	4.7		2.9	4.0	2.2										5.1	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

Note

: KRW means Won, 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 Korea

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	KRW													
Exchange Rate	/ US Dollar	1 156	1 108	1 127	1 095	1 053	1 132	1 160	1 130	1 101	1 166	1 180	1 145	1 292
Coal and Coal Products														
Coking Coal	USD/tonne	178.02	250.20	202.89	150.33	125.43	100.71	104.97	184.31	182.94	171.52	120.05	175.53	355.05
Anthracite	USD/tonne	137.13	201.17	168.91	134.74	111.04	90.91	80.54	133.23	146.24	135.20	97.19	137.33	308.51
Other bituminous coal	USD/tonne	92.40	112.12	106.47	88.66	81.99	65.20	59.48	83.61	95.0	83.44	66.45	101.57	191.91
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Oil and Oil Products														
Crude Oil	USD/BBL	78.73	108.0	112.79	108.27	101.24	53.29	41.08	53.36	71.48	65.47	45.32	70.50	102.18
Natural Gas Liquids														
Ethane														
LPG	USD/BBL	61.86	76.59	79.62	77.28	76.43	41.93	30.85	41.07	48.0	37.43	32.58	54.10	66.16
Naphtha	USD/BBL	80.42	104.23	105.72	102.95	101.78	55.78	44.09	54.16	70.59	58.46	45.31	71.12	88.70
Motor Gasoline														
Aviation Gasoline	USD/BBL	136.67	136.75	142.17	189.88	184.33	155.75	138.71	158.67	151.33	179.67	144.20	196.00	274.50
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene	USD/BBL	102.44	129.65	128.40	126.45	125.56	121.18	47.11	62.08	44.0	83.63	37.88	78.38	90.18
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	\vdash
Fuel Oil	USD/BBL	74.11	102.69	109.21	101.33	95.51	47.98	37.97	54.62	70.70	66.21	50.95	69.60	92.17
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas														
Liquefied Natural Gas	USD/tonne	521.60	650.39	756.26	768.52	846.26	562.83	363.79	416.01	526.84	504.72	393.08	554.14	1078.20
Compressed Natural Gas		321100	550105	. 50120	. 50152	5 70120	232103	555115		520104	55412	223100	22-1117	
Electricity														

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	KRW / US Dollar	1 156	1 108	1 127	1 095	1 053	1 132	1 160	1 130	1 101	1 166	1 180	1 145	1 292
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG	KRW/kg	1,056.32	1230.05	1261.72	1 217	1 155	727	584	734	813	720.71	666.91	903.67	1,250.96
Naphtha														
Motor Gasoline	KRW/L	1,732.70	1 940	1 999	1 936	1 847	1 554	1 460	1 541	1 621	1,562.86	1,464.60	1,705.08	1,875.96
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene	KRW/L	908.06	1 144	1 186	1 127	964	631	542	650	765	752.20	532.21	739.35	1,203.97
Gas/Diesel Oil	KRW/L	1,393.05	1 631	1 682	1 609	1 485	1 164	1 069	1 161	1 277	1,227.85	1,057.18	1,286.21	1,712.23
Fuel Oil	KRW/L	710.49	918	1 054	919	853	542	443	565	659	678.23	518.28	688.66	1,006.51
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	829.27
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas	KRW/MJ	656.31	768.06	18.56	19.53	20.52	16.00	12.99	12.47	13.23	13.86	11.86	16.09	25.01
Liquefied Natural Gas														
Compressed Natural Gas														
Electricity														

Malaysia

Energy balance table of Malaysia

2022

											Petajoules											
		0 1	0			Petrole	um products										Other		Florida		Table	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	90		1 044								2 785	115			12		63			4 111	191	Production
Import	894		498	671	378	60	149	24	36	25	437									2 499		lm port
Export			- 415	- 497	- 92	- 42	- 167	- 70	- 26	- 101	-1303						-7.4		-2.9	-2 226	-7.4	Export
International marine bunkers				- 35			-1.8	- 34												- 35		International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	6.2		12	5.7	3.4	-2.8	4.2	4.2		-3.3							9.1			33	9.1	Stock changes
Total primary energy supply	990		1 139	144	289	15	- 16	- 75	9.9	- 80	1 919	115			12		65		-2.9	4 382	192	Total primary energy supply
Transfers																						Transfers
Γotal transformation sector	- 925		-1 133	1 069	291	61	410	87	98	121	-1 279	- 115			- 12		- 15		691	-1 719	- 142	
Main activity producers	- 925			- 17			- 13	-4.0			- 511	- 115			- 12		-7.0		659	- 928	- 134	Main activity producers
Autoproducers				- 23			- 23				- 50	-0.2			-0.1		-8.1		32	- 50	-8.3	Autoproducers
Gas processing				72			5.4		54	13	- 717									- 645		Gas processing
Petroleum refineries			-1 133	1 036	291	61	441	91	44	108										- 97		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																						Other transformation
Losses & own use			-2.1	- 18						- 18	- 68								- 55	- 143		Losses & own use
Discrepancy	0.1		-4.1	25	6.6	-0.3	2.4	9.0	2.8										- 28	-6.4		Discrepancy
Total final consumption	65			1 220	587	76		21	110		572						50		606	2 5 1 3	50	
Total final energy consumption	65			1 142	587	76	397	21	58		350						50		606	2 212	50	0, 1
Industry sector	65			81	6.7		46	20	7.3	1.2	347								304	797		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	65			81	6.7		46	20	7.3	1.2	347								304	797		Non-specified industry
Transport sector				956	579	76	301				1.5						50		1.6	1 009	50	Transport sector
Domestic air transport				76		76														76		Domestic air transport
Road				879	579		301				1.5						50			931	50	Road
Rail																			1.6	1.6		Rail
Inland waterways																						Inland waterways
Non-specified transport																						Non-specified transport
Other sector				105	2.1		50	1.3	51	0.4	1.7								300	407		Other sector
Residential				39					39	0.4	0.3								132	171		Residential
Commerce and public services				17			3.6	1.3	12		1.4								166	185		Commerce and public services
Agriculture				15			15												2.4	17		Agriculture
Fishery				34	2.1		32													34		Fishery
Non-specified																						Non-specified
Non-energy				78					52	26	223									301		Non-energy
										Flect	ricity and heat											
Electricity generated (GWh)	82 222			3 027						Liber		31 934			3 412		1 464			192 071	36 810	Electricity generated (GWh)
Electricity plants	82 222			3 027								31 934			3 412		1 464			192 071	36 810	
CHP plants	02.222			3 027							.0012	31334			3412		0-4			.52.071	30 0 10	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Energy balance table of Malaysia

2021

											Petajoules	;										
		Cool	Cauda ail			Petrole	um products										Other		Electricity and		Total	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	82		1 063				•		•	•	2 617	112			7.7		52			3 935	172	Production
nport	852		278	767	466	18	239	1.1	15	28	337								0.1	2 235		Import
cport .			- 374	- 806	- 327	- 64	- 223	- 25	- 33	- 134	-1 188						- 10		-3.5	-2 382	- 10	Export
ernational marine bunkers				- 27			-4.4	- 23												- 27		International marine bunkers
ernational aviation bunkers																						International aviation bunkers
ock changes	24		33	124	19	-9.3	102	0.8	4.0					***************************************			3.0			184	3.0	
tal primary energy supply	958		1 000	58	159	- 55	113	- 46	- 15	- 98	1 767	112			7.7		45		-3.4	3 944	165	7 97 117
ansfers																						Transfers
tal transformation sector	- 901		-1 002	962	283	100	251		128	137	- 976	- 112			-7.7		- 10		643	-1 405	- 130	
Nain activity producers	- 901			- 10			-9.9	-0.3			- 416	- 112			-7.7		-5.5		620	- 832	- 125	2.
Autoproducers				-1.5			-1.5				- 50						-4.9		22	- 34	-5.0	Autoproducers
Gas processing				75			4.9		55		- 511									- 436		Gas processing
Petroleum refineries			-1 002	899	283	100	258	63	73	123										- 103		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																						Other transformation
osses & own use			-0.7	- 20						- 20	- 49								- 66	- 135		Losses & own use
iscrepancy	1.5		2.8	0.4	-1.1	-3.2	4.4	-2.3	-3.5	6.1	4.2								- 17	-7.7		Discrepancy
otal final consumption	58			1 001	441	41	368	14	110	26	746						35		557	2 397	35	Total final consumption
otal final energy consumption	58			927	441	41	368	14	60	2.5	365						35		557	1 942	35	Total final energy consumption
Industry sector	58			105	3.9		79	13	6.5	2.3	363								276	802		Industry sector
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobac
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	58			105	3.9		79	13	6.5	2.3	363								276	802		Non-specified industry
Transport sector				720	435	41	244		0.5		1.5						35		1.3	758	35	
Domestic air transport				41	400	41	244				1.0								1.3	41	55	Domestic air transport
Road				679	435	41	244				1.5						35			715	35	-
Rail				0/3	455		244				1.5						33		1.3	1.3	33	Rail
Inland waterways																			1.3	1.3		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				102	2.4		45	1.4	53	0.1	0.5								200	382		
Other sector Residential				102 42	2.4		45	1.4	53 41	0.1	0.5								280 133	382 175		Other sector Residential
							6.0	4.4			0.5								i			
Commerce and public services				19			6.2		12		0.5								144	164		Commerce and public serv
Agriculture				16	2.4		16												2.5	18		Agriculture
Fishery				26	2.4		23													26		Fishery
Non-specified	+									2.2	20.											Non-specified
on-energy	1			74					51											455		Non-energy
										Elect	ricity and hea											
ectricity generated (GWh)	84 730			975								31 105			2 139		1 210			178 578	34 454	
Electricity plants	84 730			975							58 419	31 105			2 139		1 210			178 578	34 454	3.
CHP plants																						CHP plants
eat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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Major energy indicators of Malaysia

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
ital																										Total
Primary energy supply	857	1 398	2 03 0	2 144	2 219	2 447	2 645	2 772	2 812	2 979	3 161	3 066	3 164	3 252	3 562	3 744	3 797	3 776	3 914	3 950	4 02 6	4 140	3 946	3 944	4 382	P rimary energy supply
P ro duction Import	1 948 406	2 612 466	3 202 68 1	3 235 783	3 371 753	3 504 917	3 811 1 075	3 95 3 1 00 9	3 806 1 152	3 826 1 333	3 942 1 289	3 778 1 142	3 809 1 552	3 677 1 727	3 764 1 898	3 857 2 134	3 927 2 010	4 115 1 946	4 185 2 101	4 304 2 078	4 119 2 376	4 176 2 331	3 822 2 107	3 935 2 235	4 111 2 499	Production Import
Export	-1 490	-1 651	-1 827	-1 874	-1 892	-2 016	-2 193	-2 198	-2 149	-2 189	-2 034	-1 908	-2 202	-2 057	-2 095	-2 173	-2 155	-2 292	-2 399	-2 413	-2 466	-2 311	-2 050	-2 382	-2 226	Export
Final energy consumption	514	791	1 149	1 2 2 0	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 2 1 3	1 898	1 942	2 212	Final energy consumption
Industry	221 226	337 328	478 505	496 550	538 563	564 598	624 644	652 640	638 620	689 658	678 686	599 675	541 705	507 715	583 827	565 936	551 1 019	585 981	671 1 005	731 1 006	797 986	792 1 047	741 781	802 758	797 1 009	Industry
Transport Residential	35	52	69	72	78	79	86	91	99	101	112	106	111	116	119	126	125	132	138	157	140	140	171	175	171	Transport Residential
C ommerce & public services	33	55	93	97	106	105	113	124	128	158	147	159	180	177	177	184	187	186	200	170	186	195	169	164	185	Commerce & public se
Others		19	4.4	4.1	4.0	4.1	3.6	4.2	11	12	12	8.8	45	38	44	44	44	37	17	28	43	39	36	44	51	Others
al and peat Primary energy supply	57	67	97	122	173	239	306	286	344	371	398	442	611	614	661	641	639	733	785	868	947	885	1 039	958	990	C oal and peat P rimary energy supply
P ro ductio n	2.9	3.6	10	14	9.3	4.5	10	18	24	24	33	56	63	77	78	76	71	68	64	79	70	91	79	82	90	Production
Import Export	60 -1.2	66 -2.1	81 -0.8	112 -1.4	144 -1.5	221 -1.5	314 -3.6	277 -1.9	334 -3.0	353 - 11	407 -8.6	382 -5.0	547 -2.6	558 -5.9	595 - 10	582 - 14	574 -4.8	672 -6.5	716 -0.6	803 - 16	868	822 -0.1	931	852	894	Import Export
Transformation sector	- 34	- 40	- 63	- 83	- 107	- 172	- 223	- 232	-250	- 313	- 338	- 377	- 542	- 545	- 592	- 566	- 571	- 654	- 710	- 794	- 857	- 810	- 982	- 901	- 925	Transformation sector
P ower generation	- 34	- 40	- 63	- 83	- 107	- 172	- 223	- 232	- 250	- 313	- 338	- 377	- 542	- 545	- 592	- 566	- 571	-654	- 710	- 794	- 857	- 810	- 982	- 901	- 925	Power generation
Final energy consumption	21	30	41	41	45	51	55	56	56	57	72	68	76	74	73	64	72	74	75	76	76	71	56	58	65	Final energy consumption
Industry	21	30	41	41	45	51	55	56	56	57	72	68	76	74	73	64	72	74	75	76	76	71	56	58	65	Industry
Transport Residential																										Transport Residential
C ommerce & public services																										C ommerce & public ser
Others																										Others
a I and pe at products Primary energy supply																										C oal and peat products Primary energy supply
Production																										Production
Import																										Import
Export Transformation ander																										Export
Transformation sector Power generation																										Transformation sector Power generation
Final energy consumption																										Final energy consumption
Industry																										Industry
Transport																										Transport
Residential Commerce & public services																										Residential Commerce & public ser
Others																										Others
rude oil & NGL	420	770	005	1.014	066		1 112	1.054	1.056	1 104	1.100	1 100	050	1.022	1 170	1 1 4 7	1 120	1.037	1.154	1.162	1.001	1.076	071	1 000	1 120	C rude oil & NGL
Primary energy supply Production	420 1 282	732 1 469	885 1 29 1	1 014 1 375	966 1 459	1 111 1 550	1 112 1 593	1 064 1 513	1 056 1 440	1 104 1 422	1 169 1 432	1 100 1 371	950 1 347	1 023 1 186	1 172 1 219	1 147 1 196	1 129 1 237	1 037 1 358	1 154 1 391	1 162 1 374	1 08 1 1 34 0	1 076 1 251	971 1 121	1 000 1 063	1 139 1 044	P rimary energy supply P roduction
Import	94	89	323	383	306	336	343	342	340	399	359	244	340	390	419	381	411	351	456	428	388	435	295	278	498	Import
Export	- 961	- 830	- 722	- 754	- 758	- 785	- 806	- 795	-728	- 710	- 628	- 513	- 723	- 482	- 506	- 453	- 498	-675	- 697	- 627	- 629	- 523	- 444	- 374	- 415	Export
Transformation sector	- 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 07 1	-1 058	- 965	-1 002	-1 133	Transformation sector
Petroleum refineries etroleum products	- 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	-1 133	P etroleum refineries P etroleum p roducts
Primary energy supply	82	-8.0	- 80	- 91	- 32	- 63	- 12	-8.3	- 64	- 45	- 75	-0.3	97	88	64	223	280	177	152	81	159	308	115	58	144	P rimary energy supply
Import	253 - 164	310 - 304	277 - 357	288 - 373	302 - 342	298 - 376	376 - 373	333 - 353	324 -399	354 - 410	332 - 399	303 - 353	434 - 353	485 - 394	554 - 451	812 - 502	670 - 435	595 -428	642 - 511	555 - 463	827 - 671	739 - 493	527 - 443	767 - 806	671 - 497	Import
Export	311	698	906	983	897	963	978	971	1 036	1 138	1 185	1 102	991	1 030	1 151	1 068	1 045	1 067	1 137	1 225	1 126	1 048	963	962		Export
Transformation sector Power generation	- 125	- 98	- 40	- 49	- 84	- 33	- 28	-24	- 34	- 25	- 23	- 29	- 31	- 96	- 58	- 43	-38	- 18	- 15	- 20	- 15	- 25	-9.4	- 12	1 069	Transformation sector Power generation
Petroleum refineries	436	699	877	955	900	945	963	898	983	1 060	1 109	1 051	888	999	1 094	1 035	1 010	1 017	1 042	1 140	1 033	966	869	899	1 036	Petroleum refineries
Final energy consumption	402	595	789	821	833	856	929	937	909	1 005	989	932	937	898	1 049	1 138	1 163	1 141	1 160	1 180	1 156	1 2 1 5	950	927	1 142	Final energy consumption
Industry	146 226	207 327	221 505	210 549	205 561	201 596	223 642	232 636	215 616	255 652	220 678	186 664	117 693	84 702	130 809	111 915	63 994	91 953	101 979	113 983	102 961	116 1014	110 744	105 720	81 956	Industry
Transport Residential	20	26	28	27	29	27	30	33	35	34	42	31	30	33	30	31	27	28	25	47	33	26	40	42	39	Transport Residential
Commerce & public services	10	16	30	31	34	28	30	32	32	53	37	43	52	43	37	38	37	32	39	11	19	23	23	19	17	C ommerce & public ser
Others		19	4.4	4.1	4.0	4.1	3.6	4.2	11	11	11	7.9	44	37	43	43	41	36	15	26	41	36	34	41	48	
as Primary energy supply	285	584	1 104	1 074	1 093	1 141	1 220	1 420	1 462	1 534	1 645	1 501	1 484	1 496	1 618	1 674	1 679	1 752	1 727	1 725	1714	1 736	1 672	1 767	1 919	Gas Primary energy supply
P ro ductio n	648	1 117	1 876	1 820	1 884	1 931	2 187	2 404	2 3 1 9	2 356	2 450	2 326	2 3 7 6	2 377	2 416	2 513	2 537	2 601	2 626	2 725	2 567	2 6 6 4	2 463	2 617	2 785	Production
Import	- 364	- 513	- 747	- 746	- 791	63 - 853	-1 008	56 -1 040	154 -1 011	228 -1 050	191 - 997	212 -1 037	231 -1 123	292 -1 172	329 -1 127	358 -1 197	355 -1 213	327 -1 176	286 -1 185	293 -1 293	291 -1 144	334 -1 263	354 -1 144	337 -1 188	437 -1 303	Import Export
		- 513	- 878	- 900	- 866	- 851	- 894	-1 086	-1 108	-1 175	-1 281	-1 144	-1 162	-1 068	-1 143	-1 123	-1 114	-1 260	- 992	- 988	- 890	- 921	- 939	- 976	-1 279	Transformation sector
Export			- 507	- 520	- 000 - 541	- 476	- 694 - 465	- 552	-584	- 573	- 615	- 619	- 572	- 532	- 555	- 635	- 651	-633	- 992 - 601	- 900 - 541	- 537	- 603	- 959 - 471	- 466	- 1 2 / 9	Powergeneration
Export	- 100 - 57	- 269		124	162	179	210	228	228	234	242	201	192	193	204	201	216	213	260	293	352	328	311	365	350	Final energy consumption
Export Transformation sector		- 269 25	98		160	176	207	223	222	227	232	190	180	180	191	188	204	201	251	286	346	323	308	363	347	Industry
Export Transformation sector Power generation Final energy consumption Industry	- 57	25 24	97	123			2.2	4.0 0.2	4.7 0.2	6.2 0.2	8.1 0.3	10 0.1	10 0.3	11 0.3	12	12	12	11	8.7	6.2	5.1	4.1	2.7	1.5	1.5	Transport Residential
Export Transformation sector Power generation Final energy consumption Industry Transport	- 57 19	25	97 0.3	0.6	1.2	1.7 0.2	0.2		U-2		1.3	1.0	13	1.3	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.6	0.5	1.4	C ommerce & public ser
Export Transformation sector Power generation Final energy consumption Industry	- 57 19	25 24	97			1./ 0.2 0.8	0.2 0.8	1.0	1.0	1.2	1.5												0.0			
Export Transformation sector Power generation Final energy consumption Industry Transport Residential C ommerce & public services Others	- 57 19	25 24 0.2	97 0.3 0.2	0.6 0.2	1.2 0.2	0.2			1.0	12													0.0			Others
Export Transformation sector Power generation Final energy consumption Industry Transport Residential C ommerce & public services Others extricity	- 57 19 19	25 24 02 0.3	97 0.3 0.2 0.5	0.6 0.2 0.4	1.2 0.2 0.5	0.2	0.8	1.0				361	308	483	484	498	521	5.40	564	502	614				601	E lectricity
Export Transformation sector Power generation Final energy consumption Industry Transport Residential C ommerce & public services Others ctricity	- 57 19	25 24 0.2	97 0.3 0.2	0.6 0.2 0.4	1.2 0.2	0.2			331 308	348 327	365 336	361 335	398 374	483 449	484 448	498 455	531 479	540 487	564 488	592 492	614 512	643	627 517	643 519	691 559	
Export Transformation sector Power generation Final energy consumption Industry Transport Residential C ommerce & public services Others extricity Power generation Thermal Hydro	- 57 19 19	25 24 0.2 0.3	97 0.3 0.2 0.5	0.6 0.2 0.4	1.2 0.2 0.5	0.2 0.8 278	0.8	315	331	348	365									592 492 96			627	643		E lectricity Power generation Thermal Hydro
Export Fransformation sector Power generation Final energy consumption Industry Transport Residential Commerce & public services Others ctricity Power generation Thermal Hydro Nuclear	- 57 19 19	25 24 02 03	97 0.3 0.2 0.5	0.6 0.2 0.4 251 229	1.2 0.2 0.5	0.2 0.8 278 260	0.8 318 298	1.0 315 293	331 308 23	348 327 21	365 336 28	335 25	374 23	449 29	448 33	455 38	479 48	487 50	488 72	492 96	512 95	643 539 94	627 517 98	643 519 112	559	Electricity Power generation Thermal Hydro Nuclear
Export Transformation sector Power generation Final energy consumption Industry Transport Residential Commerce & public services Others Criticity Power generation Thermal Hydro Nuclear Others	- 57 19 19 83 68 14	25 24 0.2 0.3 140 117 22	97 0.3 0.2 0.5 231 206 25	0.6 0.2 0.4 251 229 22	12 02 05 267 247 19	0.2 0.8 278 260 18	0.8 318 298 20	1.0 315 293 22	331 308 23	348 327 21 0.2	365 336 28 0.4	335 25 0.7	374 23 0.8	449 29 4.6	448 33 3.1	455 38 4.6	479 48 3.3	487 50 3.7	488 72 3.9	492 96 4.2	512 95 7.1	643 539 94 9.3	627 517 98	643 519 112	559 115 18	Electricity Power generation Thermal Hydro Nuclear Others
Export Transformation sector Power generation Final energy consumption Industry Transport Residential Commerce & public services Others extricity Power generation Thermal Hydro Nuclear Others Final energy consumption	- 57 19 19 83 68 14	25 24 0.2 0.3 140 117 22	97 0.3 0.2 0.5 231 206 25	0.6 0.2 0.4 251 229 22	1.2 0.2 0.5 267 247 19	0.2 0.8 278 260 18	0.8 318 298 20 278	1.0 315 293 22 291	331 308 23 0.2 304	348 327 21 0.2 322	365 336 28 0.4 334	335 25 0.7 347	374 23 0.8 377	449 29 4.6 387	448 33 3.1 419	455 38 4.6 443	479 48 3.3 462	487 50 3.7 477	488 72 3.9 519	492 96 42 528	512 95 7.1 551	643 539 94 9.3 571	627 517 98 12 548	643 519 112 12 557	559 115 18 606	E lectricity Power generation Thermal Hydro Nuclear Others Final energy consumptio
Export Transformation sector Power generation Final energy consumption Industry Transport Residential Commerce & public services Others ectricity Power generation Thermal Hydro Nuclear	- 57 19 19 83 68 14	25 24 0.2 0.3 140 117 22	97 0.3 0.2 0.5 231 206 25	0.6 0.2 0.4 251 229 22	12 02 05 267 247 19	0.2 0.8 278 260 18	0.8 318 298 20	1.0 315 293 22	331 308 23	348 327 21 0.2	365 336 28 0.4	335 25 0.7	374 23 0.8	449 29 4.6	448 33 3.1	455 38 4.6	479 48 3.3	487 50 3.7	488 72 3.9	492 96 4.2	512 95 7.1	643 539 94 9.3	627 517 98	643 519 112	559 115 18	E lectricity Power generation Thermal Hydro Nuclear Others
Export Transformation sector Power generation Final energy consumption Industry Transport Residential Commerce & public services Others extricity Power generation Thermal Hydro Nuclear Others Final energy consumption Industry	- 57 19 19 83 68 14	25 24 0.2 0.3 140 117 22	97 0.3 0.2 0.5 231 206 25 220 117	0.6 0.2 0.4 251 229 22 234 123	12 02 0.5 267 247 19 248 128	0.2 0.8 278 260 18	0.8 318 298 20 278 140	1.0 315 293 22 291 141	331 308 23 0.2 304 145	348 327 21 0.2 322 150	365 336 28 0.4 334 154	335 25 0.7 347 156	374 23 0.8 377 167	449 29 4.6 387 169	448 33 3.1 419 189	455 38 4.6 443 201	479 48 3.3 462 212	487 50 3.7 477 218	488 72 3.9 519 244	492 96 4.2 528 257	512 95 7.1 551 274	643 539 94 9.3 571 283	627 517 98 12 548 267	643 519 112 12 557 276	559 115 18 606 304	E lectricity Power generation Thermal Hydro Nuclear Others Final energy consumption Industry

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	2022	
Population (million) *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	3320	33.57	33.94	Population (million) *1
Gross domestic product ¹³																										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	387	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	1 111	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	407	Nominal, billion USD (current)
GDP per capita ¹³							123				23.	202	233	230	5	323	550	50.	50.	5.5	555	505	55.	5.5		GDP per capita "3
	4 2 6 0	5 827	6 462	6 331	6 506	6 717	7 004	7 210	7 4 4 4	7 743	7 9 4 9	7 675	8 101	8 394	8 711	8 9 7 7	9 369	9 700	9 984	10 416	10 778	11 115	10 374	10 576	11 399	
Real term (constant 2015 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	32 735	Troditoriii(deriotarii 2010 000)
GDP, PPP (constant 2017 USD)	2 5 1 3	4 405	4 088	3 941	4 177	4 455	4 924	5 537	6 137	7 144	8 3 4 3	7 168	8 880	10 209	10 602	10 728	11 046	9 700	9 556	9 980	11 074	11 132	10 161	11 109	11 993	GDP, PPP (constant 2017 USD)
Nominal (current USD)	2313	4403	4 000	3 341	4 177	4 433	7 327	3 337	0 137	7 144	0 343	7 100	0 000	10 203	10 002	10 720	11 040	3 700	3 330	3 300	11 0/4	11 132	10 101	11103	11 555	Nominal (current USD)
Nominal GDP & its components (billion of current MYR)	110	222	256	353	383	419	474	544	507	665	770	712	021	912	0.71	1.010	1 106	1 177	1 250	1 272	1 440	1 513	1 418	1 5 4 5	1 701	Nominal GDP & its components (billion of current MYR)
Gross domestic product	119	222	356						597	665	770	713	821		971	1 0 1 9	1 106	1 177	1 250	1 3 7 2	1 448	1 513			1 791	Gross domestic product
Household 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	1 032	Household 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	209	
Gross fixed capital formation	39	9/	90	89	90	94	99	121	131	149	158	157	184	202	246	270	287	304	319	344	350	347	297	298	326	Oroco into a 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	95	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 0 6 4	1 378	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	1 249	Imports of goods and services
Real GDP & its components (billion of 2019 MYR) 11																										Real GDP & its components (billion of 2019 MYR) 1
Gross Domestic Product	291	458	579	582	613	649	693	730	771	819	859	846	909	957	1 0 0 9	1 0 5 6	1 120	1 177	1 229	1 3 0 1	1 364	1 424	1 345	1 387	1 511	Gross Domestic Product
Household 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	909	Household 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	200	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	298	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	21	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	1 127	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	1 044	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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	6.6	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	36.7	7 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	55.7	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.	NA.	0.0	126.2	Industrial production index (2010=100) ²
External trade (billions of current USD) *1																										External trade (billions of current USD) "1
Exports, f. o.b.	29.5	73.9	982	0.88	94.1	104.7	126.6	141.6	160.7	176.0	199.4	157.2	198.6	228.1	227.5	228.3	233.9	200.0	189.7	218.1	247.5	238.2	234.8	299.4	352.1	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 <i>A</i>	205.9	208.9	176.0	168.7	195.4	217.6	205.0	190.9	238.2	293.8	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	42.2	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	0.8	12.8	14.1	14.5	12.3	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	-92	-5.8	7.3	7.9	11.0	3.7	-4.3	18 <i>A</i>	15 <i>A</i>	
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	420	4.14	4.40	
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	1.51	PPP conversion factor, GDP (MYR/USD) 11
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	118.6	GDP Deflator (2015=100) ³
Producer Price Index (2010=100) ²	50.A	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.	NA.	120.8	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	127.2	
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	8.7	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	1.1	Population
Price			2.0																							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	-73	5.6	12.3	-0.5	-2.7	1.5	-7.5	-1.1	6.7	-1.1	N.A.	N.A.	NA.	7.7	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	3.4	
Output let prices	2.3							2.3	2.3	2.0	2.4						2.11					2.1			211	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

Note : N.A. means "not available"

: MYR means 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	2022
Currency	MYR													
Exchange Rate	/ 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	4.46
Coal and Coal Products														
Coking Coal	MYR/tonne	1 485										481	1 493	1 577
Anthracite	MYR/tonne	1 295										557	699	1 458
Other bituminous coal	MYR/tonne	295										243	452	831
Sub-bituminous Coal	MYR/tonne							248	332	336	383	877	1 090	1 570
Lignite	MYR/tonne	865												
Peat												1 699	1 752	1 794
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	3 431
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	3 333
Naphtha	MYR/tonne	1 963										1 627	2 710	3 733
Motor Gasoline	MYR/tonne	2 463								5 708		1 803	2 683	4 517
Aviation Gasoline											2 977	1 444	1 307	2 387
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel	MYR/tonne	7 380								2 806	2 662	1 452	2 453	4 528
Other Kerosene										2 772	5 091	1 626	3 778	4 696
Gas/Diesel Oil	MYR/tonne	2 240								2 469	2 424	1 667	2 134	4 266
Fuel Oil	MYR/tonne	1 625								1 580	1 729	1 330	1 649	2 393
White Spirit SBP														
Lubricants	MYR/tonne	13 678								5 162	5 162	5 812	6 361	7 309
Bitumen	MYR/tonne	1 471										1 256	1 687	2 089
Paraffin Waxes	MYR/tonne	7 569										3 316	5 888	7 532
Petroleum Coke	MYR/tonne	2 910										2 957	5 664	8 733
Natural Gas														
Natural Gas	MYR/tonne	492						1 377	1 525	1 436	1 526	1 566	1 585	1 686
Liquefied Natural Gas	MYR/tonne							1 540	1 844	2 258		1 860		
Compressed Natural Gas												2 2 2 2		
Electricity														

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	MYR													
Exchange Rate	/ 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	4.46
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		3.98
RON95	MYR/L								2.15	2.22	2.04	2.08		2.05
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		2.15
Fuel Oil														
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas														
Liquefied Natural Gas	+													
Compressed Natural Gas	1													
Electricity														
Industrial	MYR/kWh	0.2546												
Commercial	MYR/kWh	0.3284												
Residential	MYR/kWh	0.2726												
Others	IVI IN/KVVII	0.2120												
Juliel 3														

Mexico

Energy balance table of Mexico 2022

											Petajoules											
		Coal	Crude oil			Petrole	eum products						T		T		Other		Electricity and	T	Total	
	Coal	products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	renewables ¹	Others ²	heat	Total	renewables	
Production	129		4 157		•						1 391	129	118	98	92	74	357	54	1	6 600	751	Production
Import	222	32	31	2 058	946	111	532		334	136	1 528								7.7	3 880		Import
Export	-0.1		-2 180	- 446			- 36	- 396		- 14	-0.3								-8.7	-2 635		Export
nternational marine bunkers				- 24			- 22	-2.4												- 24		International marine bunkers
International aviation bunkers				- 180	-0.4	- 179														- 180		International aviation bunkers
Stock changes	0.4		-1.7	2.6	-0.1	0.9	1.3	-1.0		1.4	3.7									5.1		Stock changes
Total primary energy supply	351	32	2 006	1 411	946	- 67	475	- 400	334	124	2 923	129	118	98	92	74	357	54	-1.0	7 645	751	Total primary energy supply
ransfers			- 124	145					114	31										21		Transfers
otal transformation sector	- 296	9.7	-1 940	1 586	499	67	283	435	-8.9	310	-1442	- 129	- 118	- 98	- 74	- 74	- 51	- 54	1 238	-1 442	- 426	Total transformation sector
Main activity producers	- 260	-1.2		- 198			- 51	- 147			-1 160	- 126	- 118	- 98	-43	- 21	- 22	-3.2	977	-1 074	- 310	Main activity producers
Autoproducers		-0.3	}	- 50			-6.5	-8.0		- 35	- 292	-3.2			- 31	- 53	- 29	- 51	261	- 247	- 116	Autoproducers
Gas processing				- 25					- 25		10									- 15		Gas processing
Petroleum refineries			-1 942	1 861	499	67	341	590	16	347										- 82		Petroleum refineries
Coal transformation	- 36	11																		- 24		Coal transformation
Other transformation			2.6	-2.1						-2.1										0.5		Other transformation
Losses & own use		- 13	1	- 176				- 29		- 147	- 569								- 204	- 961		Losses & own use
Discrepancy	- 12	-3.5	58	- 275	1.0		- 248	2.7	21	- 52	- 524								48	- 709		Discrepancy
Fotal final consumption	43	26	;	2 691	1 446		510	9.3	460	265	389				18		307		1 080	4 554	325	Total final consumption
Total final energy consumption	43			2 548	1 446		510	9.3	458	125	381				18		307		1 080	4 401	325	
Industry sector	43			224			46	9.3	44		347				1.5		62		637	1 339	64	
Mining and quarrying				14			4.7	1.1	8.2		8.7								42	65		Mining and quarrying
Construction				8.9			8.9												2.8	12		Construction
Iron and steel		24		3.8			0.8		0.4	2.5	111								18	156		Iron and steel
Chemical & petrochemical				12			5.3	1.0	0.9	4.5	100								19	131		Chemical & petrochemical
Non-ferrous metals																			1.8	1.8		Non-ferrous metals
Non-metallic minerals	8.7			105			0.2	2.0	0.2	103	37								40	191		Non-metallic minerals
Transportation equipment				0.8			0.8	2.0	0.2		4.4								8.3	13		Transportation equipment
Machinery				2.9			0.0		0.9	2.0	4.4								0.5	2.9		Machinery
Food, beverages and tobacco				7.4			4.3	0.9	2.2	2.0	16						56		13	92	56	Food, beverages and tobacco
Pulp, paper and printing				5.9			1.1	4.2	0.6		24						30		10	40	30	Pulp, paper and printing
Wood and wood products				3.3			1.1	4.2	0.0		24								10	40		Wood and wood products
Textiles and leather																			0.4	0.4		Textiles and leather
Non-specified industry	35			64			20		31	13	47				1.5		5.6		482	634	7.1	Non-specified industry
	33			1 855	1 446		339		70		0.6				1.3		5.0		5.9	1 862	7.1	Transport sector
Transport sector				0.8			333		70		0.0								5.5	0.8		
Domestic air transport					0.8		204		70		0.0											Domestic air transport
Road Rail				1 807	1 445		291		70		0.6								5.9	1 808		Road Rail
				24			24												5.9	29		
Inland waterways				24			24													24		Inland waterways
Non-specified transport				400			405		240		22						0//		407	4.000		Non-specified transport
Other sector				469			125		343		33				17		244		437	1 200	261	Other sector
Residential				277			4.0		277		23				9.7		244		256	810	254	
Commerce and public services				64			1.9		62		11				6.9				68	149	6.9	
Agriculture				128			123		4.9										49	177		Agriculture
Fishery																				_		Fishery
Non-specified																			64	64		Non-specified
Non-energy		2.3		143					2.6		7.7									153		Non-energy
	1										ricity and heat											
Electricity generated (GWh)	23 950			24 666			4 930	15 876		3 860	186 295	35 851	10 850	4 536	20 542	20 629				343 847	83 034	, ,
Electricity plants	23 950	133		24 386			4 820	15 706		3 860	181 435	35 851	10 850	4 536	20 542	20 629				325 872	82 574	
CHP plants				280			110	170			4 860						460	12 375	5	17 975	460	
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Energy balance table of Mexico

2021

.021											Petajoules	;										
		0.1	0 1 7			Petrole	eum products										04		EL CONTRACT		T I	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear G	eothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	129		4 139	9					•	•	1 327	124	130	92	64	75	351	16		6 448	706	Production
Import	153	38	22	1 992	926	90	410		413	154	1 695								6.3	3 906		Import
Export	-0.1		-2 352	2 - 384			- 12	- 360	-0.2	- 12	-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			-1.3	-3.7	8.3	0.6	0.9	13									11		Stock changes
Total primary energy supply	281	38				- 36	379	- 354	413	143	3 034	124	130	92	64	75	351	16	-3.4	7 476	706	7 7 117
Transfers			- 137						118	42										23		Transfers
Total transformation sector	- 222		-1 693			58		185	- 13	274	-1 780	- 124	- 130	- 92	- 47	- 75				-1 709	- 397	Total transformation sector
Main activity producers	- 185			- 388			- 30	- 358			-1 353	- 122	- 130	- 90	- 44	- 33				-1 217	- 311	Main activity producers
Autoproducers		-1.5		- 55			-8.4	- 15		- 32	- 435	-2.8		-2.2	-2.6	- 42	- 36	- 10	216	- 371	- 86	Autoproducers
Gas processing				- 25					- 25		8.6									- 17		Gas processing
Petroleum refineries			-1 696	1 616	425	58	254	558	13	308										- 80		Petroleum refineries
Coal transformation	- 37	11																		- 25		Coal transformation
Other transformation			2.7							-2.2										0.5		Other transformation
Losses & own use		- 13		- 160				- 26		- 134	- 528								- 182	- 883		Losses & own use
Discrepancy	- 35				- 246	- 22		205	- 44	- 43	- 344								- 125	- 779		Discrepancy
Total final consumption	24			2 321	1 113		441	9.9	475	282	383				17		293		1 062	4 127	310	
Total final energy consumption	24			2 161	1 113		441	9.9	472	125	376				17		293		1 062	3 958	310	Total final energy consumption
Industry sector	24	25		226			48	8.3	45	125	339				1.3		47		617	1 279	48	Industry sector
Mining and quarrying				15			4.9	0.8	9.3		8.6								42	65		Mining and quarrying
Construction				9.3			9.3												2.8	12		Construction
Iron and steel		25		3.7			0.8	0.7	0.4	1.8	114								18	161		Iron and steel
Chemical & petrochemical				11			5.5	1.4	0.9	3.6	60								19	91		Chemical & petrochemical
Non-ferrous metals																			1.9	1.9		Non-ferrous metals
Non-metallic minerals	5.1			111			0.2	1.1	0.1	110	39								42	198		Non-metallic minerals
Transportation equipment				0.7			0.7				4.8								9.0	15		Transportation equipment
Machinery				2.2					0.8	1.4										2.2		Machinery
Food, beverages and tobacco				6.7			3.0	8.0	2.9		15						41		13	76	41	Food, beverages and tobacco
Pulp, paper and printing				5.2			1.2	3.5	0.5		24								11	40		Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																			0.3	0.3		Textiles and leather
Non-specified industry	19			60			22		30	8.3	73				1.3		6.0		459	618	7.3	Non-specified industry
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		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
Non-specified transport																						Non-specified 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	'
Agriculture				80			75		5.1										49	129		Agriculture
Fishery																						Fishery
Non-specified																			76	76		Non-specified
Non-energy		2.4		160					2.3	157	7.0									169		Non-energy
										Elect	ricity and heat	output										
Electricity generated (GWh)	17 036	131		51 817			3 851	44 431		3 535	222 752	34 537	11 923	4 363	13 010	20 896	1 677	3 222		381 364	74 483	Electricity generated (GWh)
Electricity plants	17 036	131		50 887			3 502	43 850		3 535	205 634	34 537	11 923	4 363	13 010	20 896	947	3 190		362 554	73 753	Electricity plants
CHP plants				930			349	581			17 118						730	32		18 810	730	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Major energy indicators of Mexico

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
imary energy supply	5 179	5 518	6 315	6 5 0 1	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	7 476	7 645	Total Primary energy supply
ro ductio n	8 187 244	8 541 367	9 60 1 1 07 6	9 7 8 6	10 003 1 119	10 811 1 145	11 058	11 032	10 9 6 3	10 503 1 574	9 908	9 3 9 6	9 3 17	9 367	9 149	9 051	8 722	7 938	7 556	6 928	6 698	6 2 9 8	6 404	6 448	6 600	Production
nport xport	-3 172	-3 267	-4 105	1 008 -4 125	-4 375	-4 803	1 158 -4 863	1 327 -4 660	1 485 -4 609	-4 218	1 725 -3 728	1 664 -3 414	2 009 -3 698	2 191 -3 580	2 359 -3 305	2 357 -3 201	2 487 -3 112	2 9 5 9 -3 0 2 4	3 536 -3 151	3 939 -3 066	4 389 -3 081	4 259 -2 843	3 707 -2 917	3 906 -2 745	3 880 -2 635	Import Export
l energy consumption	3 108	3 268	3 683	3 5 9 8	3 679	3 838	4 025	4 190	4 4 0 2	4 489	4 633	4 387	4 602	4 751	4 764	4 769	4 705	4 7 9 3	4 872	4 928	4712	4706	4 089	3 958	4 401	Final energy consumptio
dustry ansport	1 078 1 185	1 059 1 271	1 166 1 501	1 065 1 534	1 115 1 563	1 166 1 657	1 237 1 747	1 29 1 1 85 2	1 393 1 951	1 357 2 062	1 403 2 146	1 21 1 2 09 9	1 372 2 139	1 486 2 153	1 470 2 164	1 510 2 141	1 41 6 2 14 7	1 480 2 139	1 468 2 217	1 589 2 153	1 41 0 2 09 7	1 404 2 136	1 406 1 532	1 279 1 510	1 339 1 862	Industry Transport
esidential ommerce & public services	659 62	725 117	755 143	736 147	740 150	756 122	747 143	740 143	739 150	744 148	749 148	739 147	745 148	751 151	755 155	735 163	743 163	744 167	744 166	740 165	745 198	741 180	793 160	809 156	810 149	Residential Commerce & public se
hers	123	95	119	117	112	138	152	164	169	179	187	192	197	209	220	221	236	263	278	281	263	245	198	205	241	Others
nd pe at a ry ene rgy supply	169	229	270	317	358	449	397	498	538	490	429	437	544	600	522	530	516	459	487	500	482	460	340	281	351	C oal and peat P rimary energy supply
o ductio n	157 6.6	189 24	238 65	234 91	229 153	266 191	295 110	296 193	336 202	357 143	318 121	277 157	335 207	434 195	333 178	321 199	325 199	242 202	291 204	276 254	252 227	207 237	184 149	129 153	129 222	Production Import
port	-0.1	24	-0.1	-0.2	-0.1	131	110	-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
sformation sector	- 169 - 72	- 228 - 140	- 269 - 183	- 311 - 227	- 345 - 264	- 396 - 312	- 349 - 268	- 428 - 345	-429 -344	- 421 - 336	- 340 - 254	- 389 - 316	- 433 - 341	- 438 - 350	- 442 - 357	- 421 - 331	- 455 - 364	-439 -366	- 433 - 380	- 395 - 345	- 357 - 309	- 342 - 302	- 231 - 184	- 222 - 185	- 296 - 260	Transformation sector
wer generation energy consumption	- 12	- 140	- 103	2.0	12	61	59	78	122	74	111	59	131	171	88	117	68	126	44	110	72	71	76	24	43	Power generation Final energy consumpti
lustry				2.0	12	61	59	78	122	74	111	59	131	171	88	117	68	126	44	110	72	71	76	24	43	Industry
ansport esid ential																										Transport Residential
mmerce & public services ners																										C ommerce & public s Others
d peat products	3.4	42		42					0.0									20	22			24	20	20	22	C oal and peat products
ary energy supply duction	3.4	12	18	12	11	14	14	11	8.8	7.5	10	5.9	11	9.3	11	10	14	20	32	31	32	34	29	38	32	Primary energy supply Production
ort ort	3.5 -0.1	12	18 -0.1	12	11	14 -0.1	14 -0.1	11 -0.1	8.9 -0.1	7.6 -0.1	10 -0.1	5.9	11	9.4	11	10	14	20	32	34 -2.8	34 -1.3	34	29	38	32	Import E xport
formation sector	60	33	31	34	37	36	38	43	47	44	43	36	45	45	46	48	47	33	17	17	16	12	15	10	10	Transformation sector
wer generation energy consumption	39	- 17 34	- 16 32	- 14 29	- 13 34	- 13 35	-8.9 34	-6.7 34	-5.9 37	-7.6 32	-6.7 31	-5.8 23	-7.5 32	-5.7 32	-4.0 34	-4.9 35	-5.1 36	-5.9 32	-5.1 30	-3.6 29	-2.6 32	-2.4 31	-2.6 27	-1.5 25	-1.5	Power generation Final energy consumpt
ustry	39	34	32	29	34	35	34	34	37	32	31	23	32	32	34	35	36	32	30	29	32	31	27	25	24	Industry
insport sidential																										Transport Residential
mmerce & public services ners																										Commerce & public
il & NGL																										Others Crude oil & NGL
ary energy supply oduction	3 449 6 418	3 569 6 598	3 23 4 7 16 7	3 474 7 396	3 473 7 596	3 690 8 260	3 743 8 439	3 85 1 8 27 0	3 683 7 984	3 591 7 499	3 648 7 048	3 663 6 581	3 2 6 3 6 5 0 0	3 280 6 434	3 414 6 396	3 458 6 276	3 364 6 063	2 9 0 7 5 4 8 3	2 484 5 220	1 999 4 721	1 620 4 425	1 628 4 109	1 599 4 099	1 795 4 139	2 006 4 157	Primary energy supply Production
oort	10 -2 966	10 -3 031	16 -3 910	13 -3 934	17 -4 150	12 -4 602	13 -4 687	14 -4 429	17 -4 331	20 -3 917	19 -3 391	17 -2 954	14 -3 253	13 -3 188	16 -2 985	17 -2 817	16 -2 684	17 -2 608	21 -2 752	26 -2 724	31 -2 768	18 -2 586	18 -2 590	22 -2 352	31 -2 180	Import
oort formation sector	-2 900 -3 114	-3 195	-2 927	-2 862	-4 130	-3 246	-3 301	-3 286	-3 146	-3 085	-3 189	-3 292	-3 2 3 3	-2 965	-2 903 -2 979	-3 125	-2 004	-2 753	-2 /32 -2 411	-2 724	-1 465	-1 451	-2 390	-2 552 -1 693	-1 940	Export Transformation sector
tro leum refineries	-3 117	-3 202	-2 929	-2 864	-2 994	-3 250	-3 305	-3 290	-3 150	-3 088	-3 191	-3 294	-3 008	-2 970	-2 984	-3 134	-3 102	-2 762	-2 416	-1 972	-1 469	-1 455	-1 430	-1 696	-1 942	Petroleum refineries
im products ry energy supply	- 66	- 96	506	419	291	253	294	421	465	575	666	458	690	813	880	675	679	875	1 197	1 594	1 721	1 849	1 428	1 478	1 411	P etroleum p roducts P rima ry ene rgy supply
port	207 - 198	255 - 221	873 - 186	757 - 181	674 - 222	574 - 197	619 - 171	788 - 215	892 -261	1 012 - 244	1 124 - 286	1 017 - 425	1 247 - 405	1 364 - 377	1 356 - 309	1 205 - 379	1 260 - 417	1 451 - 407	1 782 - 391	2 122 - 332	2 241 - 302	2 240 - 246	1 846 - 306	1 992 - 384	2 058 - 446	Import Export
formation sector	2 226	2 265	1 757	1 873	2 042	2 273	2 338	2 258	2 383	2 337	2 360	2 420	2 2 2 2 6	2 101	2 107	2 230	2 235	2 063	1 800	1 477	1 054	910	903	1 145	1 586	Transformation sector
wer generation troleum refineries	- 633 2 862	- 683 3 004	- 973 2 780	- 919 2 843	- 803 2 892	- 700 3 022	- 662 3 055	- 678 2 983	- 539 2 967	- 534 2 914	- 488 2 885	- 464 2 92 1	- 444 2 707	- 495 2 630	- 518 2 661	- 506 2 772	- 364 2 63 5	-318 2420	- 341 2 157	- 377 1 889	- 334 1 422	- 436 1 379	- 436 1 370	- 443 1 616	- 248 1 861	Power generation Petroleum refineries
energy consumption	1 861	1 990	2 292	2 3 0 7	2 327	2 372	2 514	2 608	2 732	2 850	2 892	2 803	2 836	2 854	2 874	2 822	2 827	2 847	2 949	2 857	2 710	2 771	2 190	2 161	2 548	Final energy consumpt
ustry	312 1 182	275 1 267	313 1 497	305 1 5 3 0	298 1 558	264 1 652	303 1 742	307 1 847	320 1 947	331 2 057	292 2 141	261 2 094	246 2 134	249 2 149	248 2 159	242 2 136	241 2 143	262 2 134	296 2 212	268 2 147	181 2 091	224 2 130	224 1 527	226 1 502	224 1 855	Industry Transport
sidential	275	321	320	309	309	318	305	288	289	285	281	270	276	273	276	254	255	252	243	241	234	226	282	279	277	Residential
mmerce & public services lers	23 70	56 71	73 90	74 90	75 86	46 92	67 96	64 102	70 107	66 110	63 115	61 117	63 117	63 120	63 128	68 121	67 121	67 131	65 133	65 135	64 140	62 129	76 82	74 80	64 128	Commerce & public Others
ry energy supply	968	1 041	1 486	1 516	1 686	1 864	1 933	1 930	2 158	2 146	2 169	2 258	2 271	2 391	2 483	2 603	2 534	2 7 0 7	2 771	2 621	3 028	2 874	2 945	3 034	2 923	Gas P rima ry ene rgy supply
ductio n	953	988 61	1 398	1 3 9 4	1 429	1 513	1 532 401	1 610	1 807 364	1 800	1 763	1 82 6 46 6	1 783	1 763 608	1 707	1 695	1 560	1 4 3 9	1 274 1 489	1 112	1 174	1 148 1 717	1 309	1 327	1 391	Production
ort ort	15	-7.9	101 -8.7	134 -8.8	262 -1.6	354	401	322 -8.8	- 12	391 - 51	451 - 43	- 30	529 - 33	-2.9	791 -0.3	921 -1.3	989 -1.6	1 263 -1.0	-0.9	1 495 -0.6	1 842 -0.4	-0.4	1 629 -0.3	1 695 -0.3	1 528 -0.3	Import Export
formation sector	- 144 - 144	- 184 - 226	- 410 - 449	- 476 - 516	- 605 - 638	- 780 - 818	- 822 - 864	- 810 - 847	- 979 -1 013	-1 072 -1 105	-1 148 -1 176	-1 201 -1 228	-1 200 -1 227	-1 280 -1 308	-1 347 -1 371	-1 257 -1 281	-1 315 -1 336	-1 428 -1 448	-1 506 -1 516	-1 603 -1 604	-1 555 -1 564	-1 491 -1 500	-1 486 -1 495	-1 780 -1 788	-1 442 -1 452	Transformation sector
wer generation energy consumption	487	483	491	412	455	435	448	459	487	479	526	455	524	547	572	601	567	563	576	617	500	503	428	376	381	Power generation Final energy consumpt
ustry	453	453	465 0.2	385 0.4	425 0.6	403 0.6	415 0.6	420 0.7	448 0.7	443 0.6	482 0.8	415 0.8	482 0.4	508 0.4	531 0.8	559	52 1 0.7	5 19 0.7	534 1.0	574 2.0	460 2.5	464 1.9	395 1.6	339 1.6	347 0.6	Industry
insport sidential	34	22	19	20	22	26	26	31	30	28	33	31	32	31	31	32	35	33	31	30	27	27	23	25	23	Transport Residential
mmerce & public services lers		7.2	6.2	6.5	7.1	5.9	5.9	7.3	8.3	7.6	10	8.4	9.1	8.4	9.0	9.3	11	11	11	11	11	10	8.5	11	11	Commerce & public Others
ity	417	E40	740	770	786	050	occ	00.2	0.20	955	970	O.C.A	002	1 000	1 100	1.070	1 005	1 110	1 154	1 163	1 287	1 2.41	1 144	1 272	1 220	E lectricity
er generation ermal	417 303	548 388	564	770 607	632	850 709	855 699	903 727	928 747	783	764	964 801	992 806	1 090 891	1 106 921	1 070 885	1 085 860	1 1 1 9 906	1 154 939	1 163 934	998	1 241 955	1 144 876	1 373 1 050	1 238 846	Power generation Thermal
dro	85 11	99 30	119 30	103 31	90 35	72 38	91 33	100 39	110 39	98 38	141 35	96 38	134 21	130 36	115 32	101 42	140 35	111 42	111 38	115 39	117 49	85 40	97 41	124 43	129 39	Hydro Nudear
ers	18	31	27	29	28	32	33	37	33	36	29	29	31	32	39	42	51	60	67	75	123	161	131	155	224	Others
energy consumption lustry	361 192	430 246	523 298	530 296	539 302	620 358	654 379	683 394	698 409	733 423	752 431	741 411	776 442	842 484	892 528	869 495	908 512	927 504	973 525	979 531	1 079 606	1 008 552	1 080 631	1 062 617	1 080 637	Final energy consumpt Industry
ansport	2.9	3.5	4.0	4.1	4.1	4.0	3.9	3.9	3.9	3.9	4.0	4.0	4.3	4.0	4.1	4.1	4.1	4.1	4.1	3.9	3.9	4.0	3.4	5.7	5.9	Transport
esidential ommerce & public services	73 39	102 54	130 63	138 65	141 67	143 68	147 69	153 70	153 70	165 73	171 75	175 76	175 75	186 78	187 80	189 83	194 83	202 86	212 86	213 85	228 118	232 103	260 69	250 65	256 68	Residential Commerce & public s
ners	53	24	28	27	26	47	56	62	62	69	72	75	81	89	92	99	115	132	145	146	123	116	117	124	112	Others

Major economic indicators of Mexico

Part		1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Conting content Conting co	Population (million) *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	127.50	Population (million) *1
Mathematical Configuration																											
Control Cont	-	621	677	876	873	873	885	920	941	983	1 0 0 6	1 0 1 7	964	1 013	1 050	1 088	1 1 0 3	1 135	1 172	1 203	1 2 2 8	1 255	1 253	1 153	1 2 0 7	1 285	-
Section Sect			1 3 5 7	1 756	1 749	1 748	1 774	1 843	1 886	1 9 7 0	2 0 1 6	2 039	1 931	2 030	2 104	2 181	2 2 1 0	2 273	2 348	2 410	2 461	2 515	2 510	2 309	2 4 1 8	2 783	
## Company Com					757	772	729		877	975	1 053		900	1 058	1 180	1 2 0 1	1 2 7 4		1 172	1 078	1 1 5 9	1 222	1 269	1 091	1 2 7 3	1 463	
Part																											
Control Cont		7 595	7 5 3 0	8 955	8 782	8 646	8 642	8 850	8 925	9 2 0 0	9 288	9 2 7 6	8 678	9 002	9 199	9 402	9 4 0 5	9 553	9 753	9 897	9 9 9 8	10 120	10 014	9 147	9 525	10 079	
Property Content (Content (C		15 2 18	15 088	17 943	17 597	17 324	17 315	17 732	17 884	18 435	18 611	18 586	17 388	18 037	18 432	18 839	18 844	19 142	19 543	19 831	20 032	20 278	20 065	18 328	19 086	21 829	
Note confidence of account shall and content shall be a content shall and content shall be a content shall				7 233		7 651	7 120		8 322	9 125	9 720	10 120	8 105	9 400	10 342		10 866	11 076	9 753	8 875		9 857	10 145	8 655	10 046	11 477	
Consideration columnities consistent consi																											
Month of Control Members Month of Control Me	, , ,	735	2 3 1 1	6 694	7 069	7 455	7 869	8 828	9 563	10 631	11 504	12 354	12 163	13 366	14 666	15 818	16 277	17 484	18 572	20 129	21 934	23 524	24 446	23 430	25 804	29 453	
Control cont		514	1 531	4 548	4 871	5 194	5 526	6 032	6 563	7 151	7 727	8 2 6 9	8 007	8 735	9 504	10 238	10 819	11 515	12 148	13 189	14 3 0 5	15 238	15 866	14 777	16 846	20 802	1
Communic companion 12 23 1 10 1 10 1 10 1 10 1 1		62		637	699	774				1 100			1 449	1 573	1 727		1 984		2 288	2 418				2 930		3 233	1
Security of the content of the con		132		1 438	1 409	1 437				2 2 9 0	2 524		2 691	2 885	3 267	3 613	3 4 5 9	3 671	4 166	4 590	4 8 4 6		5 038	4 427	5 2 1 2		
Proposed process and searchess 18				98	64	107						116	93	162	148	165	202	153	164	165	178	164	135	- 29	138	100	1
Impose decorate selection of good and ease-level from the proposition of good and ease-level from the proposit	_	137	558	1 701	1 602	1 681	1 917	2 281	2 509	2 9 0 5	3 167	3 422	3 303	3 970	4 552	5 104	5 096	5 573	6 412	7 456	8 2 5 9	9 235	9 490	9 253	10 606	12 594	1
Reactor Bis Composed political Control	_	146	512	1 809	1 732	1 800	2 034	2 441	2 649	3 058	3 3 6 7	3 715	3 504	4 152	4 756	5 2 9 9	5 283	5 779	6 791	7 854	8 6 5 6	9 716	9 552	8 774	11 054	13 456	1
Consideration Consideratio	**																										
Metale Fine Entering Fine En		9 159	9 9 9 7	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	17810	24 221	
General policy information computation of the continue of the											10 277			10 052		10.633											
Green freed capted formation 1810 1879 1870 1870 1870 1870 1870 1870 1870 1870											1 710					1 974											
Sectionary Sections (19) 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										3 033	3 2 0 9					3 579							3 569		3 244		
Emports of conduction of con	-														140												
Inforts goods and services 112 13 13 14 14 14 14 14 14						3 101									4 719										6 8 0 9	10 347	-
Sectors althrease of Real CLOP (w) ' Agriculture, Triangle Color (w) ' Sectors althrease of Real CLOP (w) ' Sectors althrease of Real		1 132	1 5 6 1	3 477	3 448	3 489	3 577	3 809	4 014	4 3 6 3	4 5 7 3	4723	3 970	4 647	4 908	5 174	5 283	5 596	5 928	6 097	6 485	6 902	6 851	5 911	6 835	10 797	
Approxime Finishey and Foresthy Indiculty 32 347 38 32 34 33 34 34 34 34 34 32 32 33 32 33 33 30 31 31 30 32 31 32 32 33 32 33 33 30 31 30	· · · · · · · · · · · · · · · · · · ·																										
Industry Services etc. 1372 347 348 357 357 357 357 357 357 357 358		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	3.5	
Services, etc. Services, etc. Servi			34.7	36.3	35.7		35.3	35.2	35.2	35.1	34.6				32.6	32.A	31.9		31.1			29.2	28.7	28.3	28.5	32.1	
Mulashial production index (2010-100) 68.0 71.2 93.7 93.3 92.5 93.0 92.5 94.0 97.7 100.2 104.5 103.2 95.7 100.0 102.9 105.7 105.0 103.0 103.0 103.7 109.7 100.1 108.1 97.3 NA. 74.6 Industrial production index (2010-100) Technical trade (Difficien of Current USD) Technical trad	· ·	55.7	57.7	56.7	57.1		57.5	57.6	57.8	57.7	58.2	58.9	59.6	59.9	60 A	60.6	61.1	61.0	61.7	62.1		63.2	63.7	64.1	63.8		
Exports, f. c. 0. 49.7 79.5 166.4 19.5 16.7 165.4 18.0 21.4 25.0 27.8 29.3 29.3 29.3 29.5 29.3 29.5 29.3 29.5 29.3 29.5 29.3 29.5 29.3 29.5		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.	74.6	_
Exports, f. c. 0. 49.7 79.5 166.4 19.5 16.7 165.4 18.0 21.4 25.0 27.8 29.3 29.3 29.3 29.3 29.3 29.3 29.5 29.3 34.9 30.0 39.9 30.0 39.9 30.0 37.5 37.5 49.0 49.0 49.7 49.8 57.7 49.8 57.7 49.8 57.7 49.0 49.0 49.7 49.8	External trade (billions of current USD) *1																										External trade (billions of current USD) "1
Produce price Mark		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.A	450.7	460.6	417.2	494.8	577.7	,
Balance of payments (billion of current USD) ? Trade balance 4 4 22 84 96 756 5.58 5.58 5.59 5.28 5.29 5.22 5.41 5.70 5.25 5.20 5.20 5.20 5.20 5.20 5.20 5.2		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	626.3	
Trade balance 4.4 2.2 8.4 9.6 7.6 5.8 8.8 9.8 7.7 6.3 10.3 17.7 6.3 10.3 17.7 6.3 10.3 17.7 6.3 10.3 17.7 6.3 10.3 17.7 6.3 10.3 17.7 6.3 10.3 17.7 6.3 10.3 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17																											
Current account		-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	-27.1	
Overall bilance 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 4.9 Overall bilance Foreign exchange rate (MXNUSD) " 2.81 6.4 9.4 9.4 9.4 9.5 10.9 11.9 10.9 10.9 10.9 10.9 10.9 10.9		-7.5		-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		1
Foreign exchange rate (MXNUSD)" 2.81 6.42 9.46 9.34 9.66 10.79 11.29 10.90 10.90 10.90 10.90 11.31 13.51 12.64 12.42 13.17 12.77 13.29 15.85 18.66 18.93 19.24 19.26 21.49 20.27 20.13 Foreign exchange rate (MXNUSD)" PPP conversion factor, GDP (MXNUSD)" 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 7.68 7.88 8.05 8.33 8.45 8.91 9.28 9.66 10.04 10.40 9.68 PPP conversion factor, GDP (MXNUSD)" Price Indices GDP Deflator (2013=100)" 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 98.5 100.0 104.4 107.4 113.4 121.0 127.0 132.3 137.8 144.9 121.6 GDP Deflator (2010=100)" GDP (MXNUSD)" 11.8 26.4 63.3 67.3 70.7 73.9 74.7 80.5 83.4 86.7 91.2 96.0 10.00 103.4 107.7 111.8 116.2 119.4 122.8 130.2 136.6 141.5 146.4 154.7 166.9 Consumer Price Index (2010=100)" Consumer Price Index (2010=100)" 11.8 26.4 63.3 49.9 -0.4 0.0 14.4 3.9 2.3 45.5 83.4 45.7 91.2 96.0 10.00 103.4 107.7 111.8 116.2 119.4 122.8 130.2 136.6 141.5 146.4 154.7 166.9 Consumer Price Index (2010=100)" Consumer Price In		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	-4.9	
Price Indices GDP Deflator (2013=100) ³ B.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 98.5 100.0 104.4 107.4 113.4 121.0 127.0 132.3 137.8 144.9 121.6 GDP Deflator (2013=100) ³ Producer Price Index (2010=100) ² Consumer Price Index (2010=100) ² The indices of the index (2010=100) ³ The indices of the index (2010=100) ³ The indices of the index (2010=100) ³ Producer Price Index (2010=100) ³ The indices of the index (2010=100) ³ Producer Price Index (2010=100) ³ The indices of the index (2010=100) ³ The indice		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	20.13	
GDP Deflator (2013=100)	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	9.68	PPP conversion factor, GDP (MXN/USD) "
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. N.A. N.A. N.A. N.A. N.	Price Indices																										Price Indices
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. N.A. N.A. N.A. N.A. N.	GDP Deflator (2013=100) 13	0.8	23.1	51.8	54.9	57.9	60.2	65.0	68.9	73.3	77.5	82.3	85.5	89.4	94.6	98.5	100.0	104.4	107.4	113.4	121.0	127.0	132.3	137.8	144.9	121.6	GDP Deflator (2013=100) ¹³
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 96.0 100.0 103.4 107.7 111.8 116.2 119.4 122.8 130.2 136.6 141.5 146.4 154.7 166.9 Consumer Price Index (2010=100) 2 Growth rate (%) 3 Feal GDP 3 52 -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 3.9 Real GDP 3 Fopulation 3 1.9 1.9 1.6 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.4 1.4 1.3 1.3 1.2 1.2 1.3 1.4 1.4 1.3 1.3 1.2 1.2 1.1 1.1 1.0 0.9 0.7 0.6 0.6 Population 3 Price 3 Froducer 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. N.A. 8.9 Producer prices				57.7	60.6	63.7			77.8		85.8		96.0	100.0	105.2		111.6	114.6	117.9	124.6		140.5		N.A.	NA.		. ,
Growth rate (%) 3 Real GDP 3 52 -63 4.9 -0.4 0.0 1.4 3.9 2.3 4.5 2.3 1.1 -53 5.1 3.7 3.6 1.4 2.8 3.3 2.6 2.1 2.2 -0.2 -8.0 4.7 3.9 Real GDP 3 Population 3 Price 3 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. 8.9 Producer prices		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	166.9	
Real GDP 3 52 -63 4.9 -0.4 0.0 1.4 3.9 2.3 4.5 2.3 1.1 -53 5.1 3.7 3.6 1.4 2.8 3.3 2.6 2.1 2.2 -0.2 -8.0 4.7 3.9 Real GDP 3 Population 3 1.9 1.9 1.6 1.6 1.5 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 0.6 Population 3 Price 3 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. 8.9 Producer prices																											_ ` ′
Population ¹³ 19 19 1.6 1.6 1.5 1.5 1.5 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.2 1.2 1.1 1.1 1.0 0.9 0.7 0.6 0.6 Population ¹³ 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. 8.9 Producer prices		5.2	-6.3	4,9	-0,4	0.0	1,4	3.9	2.3	4.5	2.3	1.1	-53	5.1	3.7	3.6	1.4	2.8	3.3	2,6	2.1	2.2	-0.2	-8.0	4.7	3.9	
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. N.A. 8.9 Producer prices												13			1.4										0.6	0.6	
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. N.A. 8.9 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.	NA.	8.9	1
ער אול איז איז פאר ער איז איז פאר ער איז	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	7.9	

Source

Note

*1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

: MXN means 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

2022

											Petajoules											
						Petrole	eum products										0.1					
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
roduction	63		39								130	95		205	1.4	10	47	1.2	2	592	359	Production
port	15		35	258	86	28	124	3.8	2.3	13							0.3			308	0.3	Import
xport	- 36		- 29			-0.8	-1.8	-3.3	-1.4											- 77		Export
ernational marine bunkers				-5.9			-3.9	-2.0												-5.9		International marine bunkers
ternational aviation bunkers				- 23		- 23														- 23		International aviation bunkers
tock changes	0.3		5.4	0.2		-0.6		0.1		2.4	-0.5									5.5		Stock changes
otal primary energy supply	42		51			3.5			0.9			95		205	1.4	10	48	1.2	2	799		
ansfers			3.6				-1.5		7.4											0.9		Transfers
tal transformation sector	- 23	4	.1 - 49			5.7				5.1		- 95		- 198	-1.0	- 10	- 21	-1.2	2 161			
Main activity producers	-7.3			-0.1			-0.1			-	- 36	- 95		- 196		- 10	-1.9		155			Main activity producers
Autoproducers	-0.1		2	0.1			0.1				-1.8			-1.2	-1.0	10	- 19					
Gas processing	-0.1	-1	_								-1.0			-1.2	-1.0		- 13	-1.2	1.0	- 24	-21	Gas processing
Petroleum refineries			- 49	48	14	5.7	19	4.6		5.1										-1.1		Petroleum refineries
Coal transformation	- 16		1	40	14	3.1	13	4.0		5.1										-4.8		Coal transformation
Other transformation	- 10		11																1.0			Other transformation
oner transformation sses & own use		-2	4	2.0						2.0	4.2								-1.0 - 18			
	-0.4 1.9		.4 -5.2	-2.2 11		4.9	3.6	-0.4	0.9	-2.2 0.7									- 18 -4.2			Losses & own use Discrepancy
iscrepancy														7.0	0.4		07					
otal final consumption	20		.7	271		14		1.7	9.2					7.3	0.4		27		139			
otal final energy consumption	20		.7	258		14		1.7	9.2		57			7.3	0.4		27		139			57 1
ndustry sector	18		.7	20			16	0.5	3.6		43			4.3			21		47			,
Mining and quarrying	0.7			2.8			2.8				0.1								1.2			Mining and quarrying
Construction				7.0			6.9				0.3								1.6			Construction
Iron and steel		1	.7								0.2								4.5			Iron and steel
Chemical & petrochemical											21								1.3			Chemical & petrochemical
Non-ferrous metals	0.2										2.0								18			Non-ferrous metals
Non-metallic minerals	2.0										2.1								0.9			Non-metallic minerals
Transportation equipment											0.1								0.1	0.2		Transportation equipment
Machinery											0.1								0.5	0.6		Machinery
Food, beverages and tobacco	14										15								11	40		Food, beverages and tobac
Pulp, paper and printing											0.6								0.8	1.4		Pulp, paper and printing
Wood and wood products	0.2										0.3								4.6	5.1		Wood and wood products
Textiles and leather	0.2										0.3								0.3	0.9		Textiles and leather
Non-specified industry	0.3			11	0.1		6.5	0.5	3.6		0.1			4.3			21		2.3	38	25	Non-specified industry
ransport sector				204	93	14	96	0.7	0.1								0.1		0.7	205	0.1	Transport sector
Domestic air transport				14	0.3	14														14		Domestic air transport
Road				189			96		0.1								0.1		0.5			
Rail																			0.2			Rail
Inland waterways				0.7				0.7												0.7		Inland waterways
Non-specified transport																				3.1		Non-specified transport
Other sector	2.1			34	3.5		24	0.5	5.5		14			3.0	0.4		6.4		91	150	9.7	Other sector
Residential	0.1			4.6			0.8	0.0	3.7		6.1			0.2	0.4		6.1		47			Residential
Commerce and public services	0.5			12	2.1		7.6	0.5	1.7		6.7			2.4	0.4		0.2		33			
Agriculture	1.4			15			14	0.0	0.1		0.9			0.4			0.2		8.6			
Fishery	1.4			2.0			2.0		U. I		0.3			0.4					0.0			Fishery
Non-specified				2.0	U. I		2.0												2.0			Non-specified
<u>'</u>				42						42	20								2.0	44		
on-energy				13						13										44		Non-energy
	1									Elec	tricity and heat											
ectricity generated (GWh)	724		7	7			7				4 612			8 515	281	2 865	753		2	44 691		, , , , ,
Electricity plants	719			7			7				3 767	26 274		8 463	281	2 865	218			42 593		
CHP plants	5	61	7								845			52			535	42	2	2 097	587	CHP plants
at generated (PJ)																		1	I	1		Heat generated (PJ)
Heat plants																						Heat plants
CHP plants	1																	1	1	1		CHP plants

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

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

Energy balance table of New Zealand

2021

											Petajoules											
		Coal	Crude oil			Petrole	eum products										Other		Electricity and		Total	
	Coal	products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclea	r Geothermal	Solar	Wind	renewables ¹	Others ²	heat	Total	renewables	
roduction	67		43							•	143	87		204	1.1	9.5	44	1.3	}	599	346	Production
nport	37		145	132	51	3.1	61	1.7	2.6	12							0.2			314	0.2	Import
xport	- 35		- 25	-8.8	-1.8	-2.0	-0.2	-4.1	-0.7											- 69		Export
ternational marine bunkers				-4.8			-3.2	-1.6												-4.8		International marine bunkers
nternational aviation bunkers				- 14		- 14														- 14		International aviation bunkers
Stock changes	-5.3		9.5	7.9	-1.7	1.5	2.6	0.2		5.4	-3.7						-0.1			8.4		Stock changes
otal primary energy supply	63		172	113	48	-11	60	-3.9	1.8	18	139	87		204	1.1	9.5	44	1.3	}	834	346	Total primary energy supply
ransfers			25	- 23	-7.3	-1.3	-5.5	-0.9	7.2	- 15										1.9		Transfers
otal transformation sector	- 42	4.6	- 189	185	56	24	81	6.6		18	- 39	- 87		- 196	-0.8	-9.5	- 20	-1.3	161	- 235	- 314	Total transformation sector
Main activity producers	- 24			-0.3			-0.3				- 37	- 87		- 195		-9.5	-1.9		155	- 200	- 294	Main activity producers
Autoproducers	-0.1	-7.9)								-1.5			-1.3	-0.8		- 18	-1.3	7.2	- 24	- 20	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 189	185	56	24	81	6.6		18										-4.1		Petroleum refineries
Coal transformation	- 18	12	2																	-5.6		Coal transformation
Other transformation																			-1.1			Other transformation
sses & own use	-0.3	-2.7	,	-5.9						-5.9	-6.6								- 18	- 33		Losses & own use
screpancy	-0.6		-7.4	0.6	1.0	-0.1	1.0	0.1	0.1		0.6								-2.9			Discrepancy
otal final consumption	20	1.8		270	97	11	137	1.9	9.2	13	94			7.4	0.4		24		140	558	32	
otal final energy consumption	20			257	97	11		1.9	9.2		60			7.4	0.4		24		140			· · · · · · · · · · · · · · · · · · ·
ndustry sector	18			19	0.1		16		3.6		46			4.4			18		47			
Mining and quarrying				2.8	-		2.8				0.1								1.2			Mining and quarrying
Construction				7.0			7.0				0.3								1.5			Construction
Iron and steel		1.8	1	7.0			7.0				0.2								4.7			Iron and steel
Chemical & petrochemical		1.0	,								22								1.4			Chemical & petrochemical
Non-ferrous metals											1.1								1.4			Non-ferrous metals
Non-metallic minerals	2.0										1.9								1.0			Non-metallic minerals
	2.0										0.1								0.1	0.2		
Transportation equipment											0.1								0.1			Transportation equipment
Machinery	45																					Machinery
Food, beverages and tobacco	15										17								10			Food, beverages and tobacco
Pulp, paper and printing											2.0								1.5			Pulp, paper and printing
Wood and wood products	0.3										0.3								4.5			Wood and wood products
Textiles and leather	0.2										0.4								0.4			Textiles and leather
Non-specified industry	1.1			9.6	0.1		5.9		3.6		0.1			4.4			18		2.3			<u> </u>
Transport sector				204	95	11		0.9	0.1								0.2		0.4			'
Domestic air transport				12	0.3	11														12		Domestic air transport
Road				189	94		95		0.1								0.2		0.1			
Rail																			0.2			Rail
Inland waterways				2.7			1.8	0.9												2.7		Inland waterways
Non-specified transport																						Non-specified transport
Other sector	2.1			34	2.6		25	1.0	5.5		15			3.0	0.4		6.3		93			
Residential	0.2			4.4	0.1		0.7		3.6		6.5			0.2	0.4		6.1		48		6.6	I .
Commerce and public services	0.5			10	1.2		6.2	1.0	1.7		6.9			2.4			0.2		33			Commerce and public service
Agriculture	1.4			16	1.2		15		0.1		1.2			0.4					9.2		0.4	
Fishery				2.8			2.8												0.2	3.0		Fishery
Non-specified																			2.0	2.0		Non-specified
on-energy				13						13	34									47		Non-energy
										Flect	ricity and heat	output										
ectricity generated (GWh)	2 549	682	2	27			27				4 975			8 446	208	2 642	801	46	5	44 611	36 331	Electricity generated (GWh)
Electricity plants	2 543		-	27			27				4 065	24 232		8 393	208	2 642				42 329		
CHP plants	6		,	21			21				910	L-7 2.32		54	200	2072	584	46		2 282		
eat generated (PJ)		002	-								510			54			304	1		1		Heat generated (PJ)
																		- 1		'		
Heat plants CHP plants	1																					Heat plants

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

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

Major energy indicators of New Zealand

	1990	1995	2000	2001	20	002 2	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
al	543		. 74		45	74.4	704	722	704	705	745	722	70.0	751	753	704	003	040	050	0.42	0.47	040	0.00	822	024	700	Total
rimary energy supply	543 488	62 53			15 00	714 609	704 554	722 551	704 534	705 551	715 588	723 622	728 634	754 691	753 661	794 661	803 668	842 694	852 681	842 664	847 652	849 637	869 645	822 618	834 599	799 592	Primary energy supply
P ro duction	160	21			52	269	293	313	310	314	317	318	315	301	310	313	333	327	328	353	348	371	368	322	314	308	Production
Import Export	- 71	- 8				- 115	- 109	- 92	- 104	-113	- 135	- 194	- 172	- 180	- 167	- 156	- 139	- 137	-125	- 111	- 104	-88	- 93	- 71	- 69	- 77	Import Export
-																										- 1	
nal energy consumption	370 139	41 15				484 176	485 163	492	482 152	486	491 154	486 150	476	487	483 150	487	495 158	515	519	523 170	534 169	530 166	544 175	507	511	510	Final energy consumption
Industry	124	15			66 71	178	185	164 189	190	149 192	194	195	143 191	155 191	192	149 190	192	171 194	168 202	206	219	221	215	159 195	154 204	155 205	Industry
Transport Residential	51	5			59	58	61	62	61	63	62	60	63	61	62	62	61	61	61	61	61	63	63	64	66	64	Transport Residential
C ommerce & public services	34	3	_		39	40	43	46	48	48	48	47	47	48	47	50	49	51	52	52	52	51	55	53	54	55	Commerce & public s
Others	23	2			30	31	33	30	32	34	34	33	31	32	33	36	35	38	37	34	33	30	36	35	34	31	Others
land peat																											C oal and peat
rimary energy supply	50	4	8 4	16 5	59	48	77	90	92	82	70	82	61	54	58	69	62	53	57	48	48	52	55	50	63	42	P rimary energy supply
P ro ductio n	60	9	0 8	37 9	99	113	129	130	132	143	119	119	110	130	119	121	115	94	81	68	69	78	71	65	67	63	Production
Import).9	2.2	10	19	24	27	16	13	15	5.5	3.6		13	8.9	9.1	10	10	14	22	22	37	15	Import
Export	- 10	- 4	1 -4	47 - 5	52	- 58	- 66	- 57	-70	- 81	- 60	- 75	- 64	- 71	- 64	- 66	- 63	-52	- 41	- 36	- 35	- 37	- 42	- 32	- 35	- 36	Export
ansformation sector	- 19	- 2	2 - 2	24 - 3	30	- 29	- 48	- 57	-67	- 65	- 41	- 56	- 42	- 31	- 33	- 45	- 35	-31	- 30	- 23	- 24	- 27	- 32	- 33	- 42	- 23	Transformation sector
Powergeneration	-5.7	-6			15	- 14	- 31	- 40	-51	- 48	- 25	- 41	- 26	- 13	- 16	- 28	- 17	-13	- 12	-4.8	-5.6	-9.2	- 15	- 16	- 24	-7.3	Power generation
	28	2	5 1	19 2	24	25	30	23	22	23	26	27	21	24	22	24	26	24	25	22	23	25	23	20	20	20	
nal energy consumption	22	2			22	22	27	20	19	20	22	23	18	20	18	18	21	21	21	20	19	22	21	18	18	20	Final energy consumpti
Industry Transport	0.1	0).1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	10	20	10	10				20	15			10	10		Industry Transport
Residential	3.6	1).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	0.1	Residential
C ommerce & public services	1.5	1			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	8.0	0.5	0.5	0.5	Commerce & public s
Others	0.4	0			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	1.4	Others
and peat products																											C oal and peat products
nary energy supply																											P rimary energy supply
ro ductio n																											Production
port																											Import
xport																											Export
sformation sector	6.4	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	4.1	Transformation sector
ower generation	-1.4	-2	0 -6	i.3 -6	5.9	-6.5	-7.8	-7.6	-7.0	-7.4	-7.1	-6.8	-6.6	-7.6	-6.6	-7.2	-7.5	-7.3	-7.5	-7.0	-7.4	-7.1	-7.9	-7.1	-7.9	-7.2	Power generation
l energy consumption	0.5	0	7 1	.5 1	1.6	1.5	1.8	1.7	1.6	1.7	1.6	1.6	1.5	1.7	1.5	1.6	1.7	1.6	1.7	1.6	1.7	1.6	1.8	1.7	1.8	1.7	Final energy consump
dustry	0.5	0			1.6	1.5	1.8	1.7	1.6	1.7	1.6	1.6	1.5	1.7	1.5	1.6	1.7	1.6	1.7	1.6	1.7	1.6	1.8	1.7	1.8	1.7	Industry
ansport																											Transport
esidential																											Residential
ommerce & public services																											Commerce & public
thers																											Others
oil & NGL																											C rude oil & NGL
ary energy supply	183	21			23	235	229	222	218	220	210	222	219	229	237	253	240	233	249	238	237	224	248	165	172	51	Primary energy supply
ro ductio n	82	7			77	71	55	49	45	44	87	123	116	115	100	89	78	87	90	77	70	56	58	49	43	39	Production
port	138	17			96	209	218	202	202	200	197	208	205	219	225	235	229	220	228	233	230	215	224	163	145	35	Import
port	- 40	- 4	4 - 5	53 - 5	55	- 47	- 39	- 31	-27	- 28	- 70	- 111	- 99	- 103	- 90	- 77	- 64	-73	- 76	- 66	- 59	- 45	- 46	- 39	- 25	- 29	Export
sformation sector	- 177	- 20	6 - 21	18 - 21	16	- 226	- 225	- 218	- 216	-219	- 207	- 223	- 218	- 224	- 233	- 243	- 232	- 226	-243	- 238	- 238	- 258	- 256	- 201	- 189	- 49	Transformation sector
etro leum refineries	- 204	- 21	8 - 21	18 -21	16	- 226	- 225	- 218	- 216	-219	- 207	- 223	- 218	- 224	- 233	- 243	- 232	- 226	-243	- 238	- 238	- 258	- 256	- 201	- 189	- 49	Petroleum refineries
m products																											Petroleum products
ary energy supply	- 36	1			10	6.1	28	38	38	39	52	40	43	30	18	18	26	43	35	38	46	65	49	104	113	217	Primary energy supply
port	22	3			56	58	65	92	84	88	104	96	95	77	82	78	91	97	91	110	108	142	122	137	132	258	Import
port	- 21	-1	3 -8	.8 -6	5.4	-9.5	-4.2	-4.1	-7.7	-4.0	-5.1	-8.8	-8.8	-5.6	- 13	- 13	- 12	-12	-8.2	-9.2	- 10	-6.0	-5.3		-8.8	- 12	Export
sformation sector	208	20	5 22	20 21	17	232	226	222	227	221	213	224	220	225	234	243	233	227	245	241	233	258	257	196	185	48	Transformation sector
wer generation	-0.3	-0					-0.2	-0.3		-0.3		-1.5	-0.1								-0.1	-0.1		-1.4	-0.3	-0.1	Power generation
etro leum refineries	208	20	5 22	20 21	17	232	226	222	227	222	213	225	220	225	234	243	233	227	245	241	234	259	257	197	185	48	P etroleum refineries
energy consumption	155	18	8 20	09 21	10	219	229	236	238	239	242	241	231	229	231	231	235	240	246	252	264	267	270	248	257	258	Final energy consump
dustry	12	1			14	15	15	18	18	18	19	19	16	15	14	15	18	18	18	19	18	19	21	19	19	20	Industry
insport	121	15	1 17	70 17	71	177	185	189	190	192	194	195	191	191	191	190	192	193	201	205	219	221	214	194	204	204	Transport
sidential	0.5	2			2.3	2.2	2.3	2.7	2.8	3.0	3.2	2.7	2.6	2.9	3.0	3.1	3.1	2.9	3.0	3.3	3.6	4.7	4.7	4.4	4.4	4.6	Residential
mmerce & public services	7.0	6			1.5	4.2	5.4	6.6	6.3	4.8	5.1	4.7	4.1	5.3	5.9	5.1	4.8	5.6	5.9	6.4	7.3	6.7	10	10	10	12	Commerce & public
ners	15	1	6 1	18 1	19	21	22	20	21	21	20	19	17	16	17	18	18	20	18	18	16	16	21	20	19	17	Others
																											Gas
ry energy supply	162	16	0 21		23	212	162	145	135	139	153	143	147	156	143	161	167	184	171	176	178	161	168	162	139	130	P rimary energy supply
duction	162	16	0 21	12 22	23	212	162	145	135	139	153	144	151	161	146	159	168	184	169	177	175	155	167	163	143	130	Production
ort																											Import
port																											Export
formation sector	- 83	- 5			98	- 83	- 76	- 55	-72	- 73	- 88	- 76	- 64	- 74	- 62	- 65	- 64	-53	- 51	- 44	- 54	- 48	- 45	- 48	- 39	- 38	Transformation sector
wer generation	- 52	- 4	4 - 7	79 - 9	98	- 83	- 76	- 55	-72	- 73	- 88	- 76	- 64	- 74	- 62	- 65	- 64	-53	- 51	- 44	- 54	- 44	- 45	- 48	- 39	- 38	Power generation
energy consumption	63	6	5 7	70 6	69	72	55	56	44	42	42	41	48	51	49	52	59	73	68	70	69	62	73	67	60	57	Final energy consump
lustry	51	5			55	58	40	41	29	28	29	29	34	39	38	38	45	57	52	55	55	49	58	52	46	43	Industry
insport	2.4	1	3																								Transport
sidential	3.1	4			5.6	6.2	6.3	6.6	5.9	6.0	5.1	4.9	5.7	5.4	5.2	5.6	5.5	5.9	6.1	5.7	6.1	5.4	6.2	6.5	6.5	6.1	Residential
ommerce & public services	4.0	4			5.9	6.1	6.4	7.1	7.0	6.7	5.9	5.9	6.6	6.2	5.0	7.1	6.9	7.8	0.8	7.3	7.1	6.3	7.7	7.1	6.9	6.7	C ommerce & public
ners	1.8	1	8 1	.9 1	1.9	1.8	1.9	1.8	1.9	1.7	1.6	1.6	1.7	1.3	1.5	1.4	1.4	1.5	1.5	1.4	1.3	1.2	1.2	1.3	1.2	0.9	Others
ty																											Electricity
er generation	117	13			43	147	147	154	155	157	158	158	157	162	161	161	158	158	161	159	161	161	163	160	161	161	Power generation
ermal	23	2			51	44	49	42	54	55	54	56	44	43	38	45	40	32	31	24	30	26	29	31	30	21	Thermal
dro	83	9	9 8	38 7	78	90	85	98	84	85	85	80	87	89	90	82	83	88	88	93	91	95	92	87	87	95	Hydro
clear																											Nudear
ners	11	1	1 1	14 1	14	13	13	14	16	17	19	22	26	30	32	34	35	39	41	41	41	40	41	42	44	45	Others
energy consumption	103	11	1 12	23 12	26	128	129	134	136	140	141	139	140	144	143	142	140	143	144	142	141	141	143	140	140	139	Final energy consump
fustry	41	4			51	53	51	54	55	53	53	52	50	55	53	50	50	50	50	50	50	50	51	48	47	47	Industry
ansport	0.2	0).3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.7	Transport
esidential	37	3			42	42	44	44	44	45	45	45	47	45	45	46	44	45	45	45	45	46	46	46	48	47	Residential
mmerce & public services	19	2			25	25	26	28	30	32	33	32	32	32	32	34	34	34	34	34	34	34	34	33	33	33	Commerce & public
offilliterce a public services i				.6 8																						221	C UIIIIII CI CE & DUDIIC

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	2022	
Population (million) ¹¹	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	5.12	Population (million) *1
Gross domestic product ¹³																										Gross domestic product 13
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	217	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	253	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	247	Nominal, billion USD (current)
_		04		34	0,		104	1113	112	137	133	121	141	100	110	131	201	110	103	201	-1-	213	-12	230	241	
GDP per capita ³	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	37219	38 002	38 631	39 196	39 759	40 365	40 599	39 216	40 868	42 321	GDP per capita 3
Real term (constant 2015 USD)	28 032	29 757		33 709	34 677	35 546			37 828	38 612	37 860	37 433	37 583	38 137	38 781	39 521				42 219	40 363	43 110	41 642	43 396	49 474	Real term(constant 2015 USD)
GDP, PPP (constant 2017 USD)	13 663	17 400	32 773 13 641	13 883	16 874	21 914	36 432 25 420	37 220	26 655	32 480	31 253	28 209	37 583	38 388	39 973	42 977	40 353 44 573	41 020 38 631	41 620 40 058	42 2 19	42 862	43 110	41 597	48 909	49 474	GDP, PPP (constant 2017 USD)
Nominal (current USD)	13 003	17400	13 041	13 003	10 8/4	21 914	23 420	27 751	20 000	32 480	31233	28 209	33 0//	30 300	399/3	42911	44 3/3	30 03 1	40 038	42 923	43 230	42 800	41 397	46 909	40 217	Nominal (current USD)
Nominal GDP & its components (billion of current NZD) "1	76	06	120	120	125	145	155	163	172	107	100	104	202	212	217	222	242	25.5	271	201	206	222	220	261	200	Nominal GDP & its components (billion of current NZD) 1
Gross domestic product		96	120	129	135	145	155	163	172	187	189	194	203	213	217	233	243	255	271	291	306	323	328	361	389	Gross domestic product
Household final consumption expenditure	46 14	56	69	73	78	83	89	95	100	106 34	109 37	113	118 40	124 42	128	134 44	139	146 47	157	167	177	185	186 67	206	226	Household final consumption expenditure
General government final consumption expenditure	l	10	20	22	23	24	26	29	32	51	-	38			42		46		49	52	56	61	•	75	82	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 0.7	61 1.5	67	72	76	76	89	99	Gross fixed capital formation
Stock change	-0.2	1.2	1.4	1.9	1.1 44	1.3 43	1.6 46	1.1 46	-0.3	1.6 55	0.1 61	-0.9 56	0.9	1.3 65	0.8 63	1.8 67	1.3 68	71		2.1	1.5	0.0	0.8 71	-0.4	1.6 95	Ottock change
Exports of goods and services	20 20	28	43 39	46 41	44	43	46 45	40 48	51	52 54	61	50 51	62 57	61	03	63	66	69	72 70	80 77	85 86	88	73	80 94	116	Exports of goods and services
Imports of goods and services	20	20	39	41	40	41	45	48	32	34	01	31	37	01	01	03	00	09	70	11	80	88	/3	94	110	Imports of goods and services
Real GDP & its components (billion of 2019 NZD)																										Real GDP & its components (billion of 2019 NZD) 11
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	311	Gross Domestic Product
Household 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	191	Household 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	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	76	Gross fixed capital formation
Stock change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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	68	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	84	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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	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	18.7	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 <i>A</i>	66.7	66.9	67.3	68.7	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 <i>A</i>	96.5	100.0	97.1	97.6	98.1	101.1	102.7	104.3	105.8	107.5	108.7	104.0	0.0	0.0	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 <i>A</i>	41.6	34.4	33.8	38.1	39.7	39.5	38.4	44.8	45.1	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	54.2	Imports, c.i.f.
Balance of payments (billion of current USD) 2																										Balance of payments (billion of current USD) 12
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	-7.7	Trade balance
Current account	N.A.	N.A.	-1.7	-0.4	-14	-2.1	-4.7	-8.0	-7.9	-9.3	-10.3	-3.0	-3.4	-4.8	-6.9	-5.8	-6.2	-4.7	-4.0	-5.8	-8.6	-5.9	-2.4	-14.8	-21.6	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	-32	-6.4	6.0	-1.9	-8.4	-1.8	-1.7	-0.4	-7.6	Overall balance
Foreign exchange rate (NZD/USD) "	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	1.58	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	1.45	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	125.3	GDP Deflator (2015=100) ¹³
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 <i>A</i>	107 <i>A</i>	105.1	105.6	110.4	115.0	117.6	117.6	124.4	135.6	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	129 <i>A</i>	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	-12	-0.1	1.5	2.2	2.3	2.8	3.8	3.7	3.8	3.5	3.5	2.4	-0.7	5.2	2.8	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	0.1	Population
Price																										Price
Producer prices	4.6	8.0	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	42	2.2	0.1	5.7	9.0	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	72	

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

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	2022
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	1.57
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG														
Naphtha														
Motor Gasoline (regular)	NZD/L	1.77	2.06	2.09	2.10	2.08	1.88	1.76	1.89	2.10	2.10	1.92	2.21	2.68
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene														
Gas/Diesel Oil	NZD/L	1.17	1.49	1.50	1.47	1.41	1.14	1.01	1.18	1.43	1.45	1.21	1.48	2.44
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	44.38
Industry	NZD/GJ	8.03	7.60	7.82	8.02	7.44	7.04	6.12	6.99	7.37	6.80	7.14	8.85	11.35
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	159.47
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	193.23
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	314.67
Others														
Other Energy Products														
+ 11704 : 0040	•													

^{*} NZD/L in 2018

Papua New Guinea

Energy balance table of Papua New Guinea

2022

2022											Petajoules	;										
						Petrole	eum products															
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	1	Nuclear Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production		•	50	'							483	3.4	ı	3.5		'	76			616	83	Production
Import			41	66	4.4	5.5	35	21	0.1											108		Import
Export			- 51	- 23						- 23	- 446									- 520		Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes																						Stock changes
Total primary energy supply			41	43		5.5	35	21	0.1		36	3.4	Į.	3.5			76			204		1 2 32 112
Transfers				-1.3						-1.3										-1.3		Transfers
Total transformation sector			- 41	15		0.2		- 20	0.7	27	- 24	-3.4		-3.5			-1.7		16	- 43		I .
Main activity producers				-1.9			-1.9				-5.2	-2.4					-0.4		5.3	-4.6		7.
Autoproducers				- 26			-4.3	- 21			-5.5	-1.1	l	-3.5			-0.2		11	- 25	-4.7	
Gas processing				6.6						6.6	- 13									-6.6		Gas processing
Petroleum refineries			- 41	35		0.2	12	1.7	0.7	21										-5.9		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-1.1			-1.1	-1.1	
Losses & own use											- 13								-1.3	- 14		Losses & own use
Discrepancy											0.1									0.1		Discrepancy
Total final consumption				56					0.8								74		15	145		
Total final energy consumption				56		5.6			0.8								74		15	145		
Industry sector				24			22	1.3	0.6	0.4							3.9		10	39	3.9	,
Mining and quarrying																						Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				24		F.C.	22	1.3	0.6	0.4							3.9		10	39		<u> </u>
Transport sector				25			15	0.3												25		Transport sector
Domestic air transport				5.6		5.6	45													5.6		Domestic air transport
Road				19	4.4		15													19		Road
Rail				0.2				0.2												0.2		Rail
Inland waterways				0.3				0.3												0.3		Inland waterways
Non-specified transport									^ ^	^ ·							70		4.4			Non-specified transport
Other sector				6.9			4.3		0.2								70		4.4	82		I .
Residential				1.6					0.1								60		1.7	63	60	
Commerce and public services				1.1			4.2		0.1	1.0							11		2.3	14		Commission and public services
Agriculture				4.3			4.3												0.3	4.6		Agriculture
Fishery																						Fishery
Non-specified	+																					Non-specified
Non-energy																						Non-energy
	1									Elect	ricity and heat					_						
Electricity generated (GWh)				2 461							880	958		96		6	33			4 432		
Electricity plants				2 461							880	958	3	96		6	33			4 432	1 092	
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Energy balance table of Papua New Guinea

2021

											Petajoules											
		0.1	01			Petrole	eum products										Other		Florida 3		Table	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuc	clear Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
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	2.4	28	20	0.2	- 25	35	3.6		3.5			74			196	81	Total primary energy supply
Transfers				-1.4	1.3	0.4				-3.2										-1.4		Transfers
Total transformation sector			- 53	30	1.6	2.9	12	- 18	0.6	31	- 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		Autoproducers
Gas processing				1.9						1.9	- 13									- 11		Gas processing
Petroleum refineries			- 53	56	1.6	2.9	18	2.7	0.6	29										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	5.7	40	1.6	0.8	2.8							73		14			
Total final energy consumption				56	4.5				0.8								73		14			
Industry sector				24			22		0.6								3.9		10			
Mining and quarrying				2-1				1.4	0.0	0.0							0.0				0.5	Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry				24			22		0.6	0.5							3.9		10	38		
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
Non-specified transport																						Non-specified transport
Other sector				6.9			4.3		0.2								69		4.3	80		Other sector
Residential				1.5					0.1	1.4							59)	1.7			Residential
Commerce and public services				1.0					0.1	1.0							10		2.3	14	10	Commerce and public service
Agriculture				4.3			4.3												0.3	4.6		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
Non-energy																						Non-energy
										Floor	tricity and heat	outout							·			
Floatricity gonorated /CM/h)	I			2 392						Elec	encity and neat	1 004		96	5		37			4 365	1 142	Electricity generated (GWh)
Electricity generated (GWh)				2 392							831	1 004		96			37			4 365		
Electricity plants				2 392							851	1 004		96	3	,	3/			4 305	1 142	
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

Major energy indicators of Papua New Guinea

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008		tajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Total																										Total
Primary energy supply Production	36 193	36 217	117 221	126 198	131 178	137 175	136 161	140 178	142 196	151 166	157 175	162 174	166 130	163 130	166 135	168 141	177 333	178 512	183 568	188 590	183 535	185 595	194 611	196 597	204 616	Primary energy supply Production
Import	33	28	49	57	60	65	56	78	89	73	77	71	86	83	88	92	97	86	100	110	110	109	104	103	108	Import
Export	- 189	- 208	- 154	- 129 103	- 108	- 102	- 91	- 116	-130	- 69	- 91 120	- 85	- 47	- 49	- 57	- 67 130	- 248	-419	- 489	- 510	- 459	- 520	- 525	- 505	- 520	Export
Final energy consumption Industry	23 8.0	30 13	98 20	24	106 25	108 26	110 26	112 27	114 28	119 29	30	122 30	125 32	127 33	129 33	34	134 36	135 36	137 37	139 38	139 38	142 39	141 38	143 38	145 39	Final energy consumption Industry
Transport	8.7 1.2	11 1.1	12 50	13 51	14 52	14 52	14 53	15 54	16 54	17 55	17 56	18 56	19 57	19 58	20 58	20 58	22 58	23 59	24 59	25 59	25 59	26 59	25 61	25 62	25 63	Transport
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	14	Residential Commerce & public services
Others	3.5	3.2	4.3	4.1	4.1	4.4	4.4	4.4	4.4	4.9	4.7	4.9	4.8	5.0	5.3	5.6	4.6	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.6	Others
oal and peat Primary energy supply																										C oal and peat P rimary energy supply
P ro ductio n																										Production
Import Export																										Import E xport
Transformation sector																										Transformation sector
Power generation																										Power generation
Final energy consumption Industry																										Final energy consumption Industry
Transport																										Transport
Residential Commerce & public services																										Residential Commerce & public services
Others																										Others
oal and peat products Primary energy supply																									T	C oal and peat products P rimary energy supply
P ro ductio n																										Production
Import Export																										Import Export
Transformation sector																										Transformation sector
Power generation Final energy consumption																										Power generation Final energy consumption
Industry																										Industry
Transport Residential																										Transport Residential
C ommerce & public services																										C ommerce & public services
Others																									$\overline{}$	Others
rude 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	41	C rude oil & NGL P rima ry energy supply
P ro duction Import	188	209	154	129	108	102	89 5.4	102 38	119 42	82 33	87 36	84 32	41 41	40 41	46 46	52 53	47 48	26 27	57 58	58 59	55 56	54 55	58 59	50 52	50 41	Production 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	- 51	Export
Transformation sector		-2.4					- 19	-42	- 44	- 34	- 34	- 35	- 40	- 40	- 44	- 56	-44	- 26	- 60	- 59	- 53	- 55	- 62	- 53	- 41	Transformation sector
P etro leum refineries etro leum pro ducts		-2.4					- 19	-42	- 44	- 34	- 34	- 35	- 40	- 40	- 44	- 56	-44	- 26	- 60	- 59	- 53	- 55	- 62	- 53	- 41	P etroleum refineries P etroleum 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	43	Primary energy supply
Import Export	33 -0.5	28	49	57	60	65	50 -5.8	40 -18	47 - 27	41 -7.3	41 -5.5	40 -3.5	45 -6.7	42 -8.6	42 - 11	38 - 15	50 -10	59 -5.0	42 - 20	51 - 22	53 - 17	54 - 21	45 - 29	52 - 25	66 - 23	Import Export
Transformation sector	- 14	-4.6	- 14	- 17	- 19	- 24	-6.1	18	20	43	5.4	6.2	8.7	5.4	8.1	19	6.7	-7.2	21	17	13	22	37	30	15	Transformation sector
Power generation	- 14	-4.6	- 14	- 17	- 19	- 24	- 24	-23	- 24	- 25	- 24	- 24	- 26	- 30	- 30	- 30	-32	- 30	- 30	- 33	- 34	- 31	- 26	- 27	- 27	Power generation
P etro leum refineries	4-7	24	20	34	24	35	18	41	44	29	29	30	35	35	38	50	39	23	52	50	48	52	62	56	35	P etroleum refineries
Final energy consumption Industry	17 3.6	24 8.2	30 12	34 15	34 15	35 15	36 15	37 16	38 16	41 17	41 17	42 18	44 19	45 19	46 19	47 20	50 22	52 23	54 24	55 24	55 24	57 25	55 24	56 24	24	Final energy consumption 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	25	Transport
Residential Commerce & public services	1.0	0.8	0.9 0.6	0.9	0.9	1.0 0.7	1.0 0.7	1.0 0.7	1.1 0.7	1.1 0.7	1.1 0.7	1.1 0.8	1.2 0.8	1.2 0.8	1.2 0.8	1.3 0.8	1.3 0.9	1.3 0.9	1.4 0.9	1.4 0.9	1.4 1.0	1.5 1.0	1.5 1.0	1.5 1.0	1.6 1.1	Residential 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	42	4.3	4.3	4.3	4.3	4.3	Others
as 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	36	Gas P rimary energy supply
P ro ductio n Imp ort	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	483	Production Import
E xport																	- 192	-387	- 412	- 433	- 386	- 445	- 438	- 430	- 446	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	- 24	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	- 11	Power generation
Final energy consumption Industry																										Final energy consumption Industry
Transport																										Transport
Residential Commerce & public services																										Residential Commerce & public services
Others																										Others
ectricity 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	16	E lectricity 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	12	Thermal
Hydro Nuclear	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	3.4	Hydro Nudear
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	8.0	0.7	0.6	0.5	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	15	Final energy consumption
Industry	4.3	3.1	5.9	6.7	7.2	7.9	8.0	8.5	8.8	10	10	10	10	11	11	11	11	10	10	10	10	11	10	10	10	Industry
Transport Residential	0.2	0.2	0.6	0.7	8.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.5	1.6	1.7	1.6	1.7	1.7	1.7	1.7	1.7	Transport Residential
C ommerce & public services	1.2	1.6	1.8	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.2	2.3 0.3	2.3	Commerce & public services
Others	0.2		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	Others

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	2022	
Population (million) ¹¹	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	10.14	Population (million) *1
· · · · · -																										-
Gross domestic product 19	7	11	11	11	11	11	12	12	12	14	14	15	16	17	17	18	20	22	23	24	24	25	24	24	25	Gross domestic product 19
Real term, billion USD (constant 2015)	11	17	17	17	17	17	18	19	20	21	21	23	25	25	26	27	31	33	35	36	36	38	36	37	42	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	2	5	17	2	2	Δ	10	19	0	10	12	12	14	18	21	21	23	22	21	23	24	25	24	26	32	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	3	,	4	3	3	4	4	,	0	10	12	12	14	10	21	21	23	22	21	23	24	23	24	20	32	Nominal, billion USD (current)
GDP per capita 3	4.000	2 442	2 000	4 024		4 0 4 2	4 000	4 007	4.007	2.242	4046	2.245	2 455	2 44 6	2454	2477	2 400	2 502	2 575	2.502	2.525	2.500	2 455	2 400	2.452	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	2 463	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 9 3 6	3 0 6 8	2 9 6 6	3 073	3 284	3 225	3 283	3 3 1 8	3 670	3 813	3 924	3 9 6 7	3 865	3 948	3 742	3 670	4 119	GDP, PPP (constant 2017 USD)
Nominal (current USD)	833	1 004	639	541	509	581	624	749	1 245	1 3 7 9	1 635	1 579	1 879	2 304	2 653	2 578	2 742	2 502	2 333	2 495	2 584	2 594	2 446	2 645	3 116	Nominal (current USD)
Nominal GDP & its components (billion of current PGK) *1																										Nominal GDP & its components (billion of current PGK)
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	111	Gross domestic product
Household final consumption expenditure	1.8	2.7	4.3	5.0	7.1	6.2	6.5	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	Household final consumption expenditure
General government final consumption expenditure	8.0	1.1	1.6	1.7	1.8	1.9	1.9	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A	General government final consumption expenditure
Gross fixed capital formation	8.0	1.2	2.0	2.2	2.3	2.3	2.3	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	Gross fixed capital formation
Stock change		0.1	0.1	0.2	0.2	0.2	0.2	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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	NA.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	Imports of goods and services
Real GDP & its components (billion of 2019 PGK) 11																										Real GDP & its components (billion of 2019 PGK) 11
Gross Domestic Product	20	30	29	29	29	30	31	33	34	37	37	39	43	44	46	48	54	58	61	63	63	66	64	64	66	Gross Domestic Product
Household final consumption expenditure	3.1	3.6	3.3	2.8	3.7	2.9	3.3	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	Household 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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	Gross fixed capital formation
Stock change		0.2	0.1	0.2	0.2	0.2	0.2	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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.	NA.	N.A	
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.	NA.	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.	NA.	N.A	1
Industrial production index (2010=100) ²	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A	
. , ,																										maderial production made (2010–100)
External trade (billions of current USD)	12	2.7	2.1	1.8	1.6	2.2	2.6	3.3	4.2	4.7	5.7	4.4	5.7	6.9	6.3	6.0	8.8	8.5	8.2	10.0	10.5	11.4	9.3	10.9	14.3	External trade (billions of current USD)
Exports, f. o.b. Imports, c.i.f.	12	1.5	1.2	1.1	1.1	1.4	1.7	1.7	2.0	2.6	3.1	2.9	3.5	4.3	4.8	5.4	4.0	2.6	2.1	3.1	3.5	3.9	3.3	3.4	5.3	Exports, f. o. b. Imports, c. i. f.
	12	1.5	1,2	1.1	1.1	1.4	1.7	1.7	2.0	2.0	3.1	2.5	3.3	4.5	4.0	7.4	4.0	2.0	2.1	3.1	3.3	3.5	3,3	34	,,,	**
Balance of payments (billion of current USD) 2	0.4				0.5	4.0	4.2	4.0	2.2	2.4	2.7		2.2	2.7	4.5	0.5								7.0		Balance of payments (billion of current USD)
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	0.0	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	0.0	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	0.0	Overall balance
Foreign exchange rate (PGK/USD) *1	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	3.52	Foreign exchange rate (PGK/USD)
PPP conversion factor, GDP (PGK/USD) "1	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	2.49	PPP conversion factor, GDP (PGK/USD) "1
Price Indices																										Price Indices
GDP Deflator (2013=100) "3														97.1	96.5	100.0	105.4	104.1	106.8	115.0	126.2	1276	129.7	1110	1675	00000-0-1
	15.7	20.9	33.2	35.5	39.9	42.1	41.3	46.3	74.3	76.A	85.3	81.2	89.2	97.1	90.3	10020				1150	1202	127.6	129.7	144.9	167.5	GDP Deflator (2013=100) 3
Wholesale Price Index	15.7 N.A.	20.9 N.A.	33.2 N.A.	35.5 N.A.	39.9 N.A.	42.1 N.A.	41.3 N.A.	46.3 N.A.	74.3 N.A.	76.4 N.A.	85.3 N.A.	812 N.A.	89.2 N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	144.9 N.A.	N.A	N.A.
Wholesale Price Index																			N.A. 136.3							N.A.
Wholesale Price Index Consumer Price Index (2010=100) 2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.		NA.	N.A.	N.A.	N.A.	NA.	N.A	N.A. Consumer Price Index (2010=100) ¹²
Wholesale Price Index Consumer Price Index (2010=100) ² Growth rate (%) ³	N.A. 21.4	N.A. 30.2	N.A. 52.9	N.A. 57.8	N.A. 64.6	N.A. 74.2	N.A. 75.8	N.A. 77.1	N.A.	NA. 79.7	N.A. 88.2	N.A. 94.3	N.A. 100.0	N.A. 104.4	NA.	N.A. 114.6	N.A. 120.6	N.A.	136.3	N.A. 143.7	N.A. 150.0	N.A. 155.9	N.A. 163.5	NA. 170.8	N.A 179.8	N.A. Consumer Price Index (2010=100) ⁻² Growth rate (%) ⁻³
Wholesale Price Index Consumer Price Index (2010=100) ² Growth rate (%) ³ Real GDP	N.A. 21.4	N.A. 30.2	N.A. 52.9 -2.5	N.A. 57.8 -0.1	N.A. 64.6	N.A. 74.2	N.A. 75.8 2.7	N.A. 77.1	N.A. 78.9	N.A. 79.7	N.A. 88.2 -0.3	N.A. 94.3 6.8	N.A. 100.0	N.A. 104.4	NA. 109.2	N.A. 114.6	N.A. 120.6	N.A. 127.8 6.6	136.3	NA. 143.7	N.A. 150.0 -0.3	N.A. 155.9 4.5	NA. 163.5	NA. 170.8 0.1	N.A 179.8 5.2	N.A. Consumer Price Index (2010=100) ¹² Growth rate (%) ¹³ Real GDP
Wholesale Price Index Consumer Price Index (2010=100) ² Growth rate (%) ³ Real GDP Population	N.A. 21.4	N.A. 30.2	N.A. 52.9	N.A. 57.8	N.A. 64.6	N.A. 74.2	N.A. 75.8	N.A. 77.1	N.A. 78.9	NA. 79.7	N.A. 88.2	N.A. 94.3	N.A. 100.0	N.A. 104.4	N.A. 109.2	N.A. 114.6	N.A. 120.6	N.A. 127.8	136.3	N.A. 143.7	N.A. 150.0	N.A. 155.9	N.A. 163.5	NA. 170.8	N.A 179.8	N.A. Consumer Price Index (2010=100) ¹² Growth rate (%) ¹³ Real GDP Population
Wholesale Price Index Consumer Price Index (2010=100) ² Growth rate (%) ³ Real GDP	N.A. 21.4	N.A. 30.2	N.A. 52.9 -2.5	N.A. 57.8 -0.1	N.A. 64.6	N.A. 74.2	N.A. 75.8 2.7	N.A. 77.1	N.A. 78.9	N.A. 79.7	N.A. 88.2 -0.3	N.A. 94.3 6.8	N.A. 100.0	N.A. 104.4	NA. 109.2	N.A. 114.6	N.A. 120.6	N.A. 127.8 6.6	136.3	NA. 143.7	N.A. 150.0 -0.3	N.A. 155.9 4.5	NA. 163.5	NA. 170.8 0.1	N.A 179.8 5.2	N.A. Consumer Price Index (2010=100) ¹² Growth rate (%) ¹³ Real GDP

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

ote : 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

2022

											Petajoules											
						Petrol	eum products										0.1					
	Coal	Coal products	Crude & NG		I Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	5.2	2		219	'	•					555	107			4.9	7.0	163			1 061	282	Production
Import	13	3	2.2	142	298 57	16	187	0.6	27	10							18		0.1	473	18	lm port
Export	-2.3	3		35	- 96 - 62	2	-7.5	- 26		-1.0	- 192						-0.4			- 326	-0.4	Export
International marine bunkers					- 11		-0.2	- 10												- 11		International marine bunkers
International aviation bunkers					- 20	- 20														- 20		International aviation bunkers
Stock changes	12			2.1	7.8	1.2		4.3			-0.7						1.0			18	1.0	Stock changes
Total primary energy supply	29)		324	179 -5.3				27			107			4.9	7.0	181		0.1	1 195	300	1 2 32 112
Transfers				62	54 24		- 17		55											-8.5		Transfers
Total transformation sector	-4.3		-	263	228 60	19			2.3	13		- 107			-3.3				215	- 197	- 166	
Main activity producers	-1.5				-6.9		-3.5	-3.4			- 198	- 105			-3.0				209	- 147	- 149	Main activity producers
Autoproducers	-2.8	3			-0.5		-0.5				- 11	-2.1			-0.3		-6.1		6.5	- 16	-8.5	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-	263	236 60	19	84	58	2.3	13										- 27		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	-7.8			-7.8	-7.8	Other transformation
Losses & own use					-4.8					-4.8									- 27	- 77		Losses & own use
Discrepancy				1.1	18 15	-4.3			8.8								-0.6		-0.2	18		, ,
Total final consumption	24		1.6		475 93				93						1.6		132		188	931	134	
Total final energy consumption	24		1.6		467 93				93		109				1.6		132		188	923	134	, .
Industry sector	24	ļ	1.6		61 0.7	,	24	20	17		58						15		110	271	15	Industry sector
Mining and quarrying					17 0.7	,	14	0.3	1.9		1.4						0.8		64	83	0.8	Mining and quarrying
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	24	ļ	1.6		44		10	20	15		57						15		46	187	15	Non-specified industry
Transport sector					352 92	12	214	0.4	35		31						15		0.3	399	15	Transport sector
Domestic air transport					12	12														12		Domestic air transport
Road					340 92		214		35		31						15			387	15	Road
Rail																			0.3	0.3		Rail
Inland waterways																						Inland waterways
Non-specified transport					0.4			0.4												0.4		Non-specified transport
Other sector					53 0.3		11		42		19				1.6		101		77	253	103	Other sector
Residential					38				38		10				1.0		96		38	183	97	
Commerce and public services					11		7.1		3.8		9.1				0.6		5.2		33	59	5.8	
Agriculture					2.3 0.1		2.0		0.2								0.2		5.1	7.7	0.2	
Fishery					2.2 0.2		1.9				0.1						0.1		0.7	3.1		
Non-specified																						Non-specified
Non-energy					8.2					8.2										8.2		Non-energy
										Flor	tricity and heat	output										
Electricity generated (GWh)	120)		1	130					Lieu		29 744			915	1 932	508			59 794	33 099	Electricity generated (GWh)
Electricity plants	120				130							29 744			915					59 794		
CHP plants	120										_55	227.44			5.15	. 552				33,34	55 555	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants
or ii piurito	1																					orn plants

Note

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

Energy balance table of Peru

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											Petajoules											
		0.1	0 1 1			Petrole	eum products										Other		EL		.	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nucle	ear Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	3.9		222								460	115			4.7	6.6	171			983	297	Production
Import	8.8	1.9	144	266	60	5.9	170	2.3	25	4.0							17		0.2	438	17	Import
Export	- 24		- 25	- 117	- 73		- 12	- 31		-1.6	- 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	-0.5	-1.0	0.9		0.3	0.5						1.9			42	1.9	Stock changes
Total primary energy supply	27			124			157		25		318	115			4.7	6.6			0.2	1 130		
Transfers			- 47	61	18	-0.2	- 17	-1.0	60	1.1										14		Transfers
Total transformation sector	-4.8		- 293	274			107		3.4		- 178	- 115			-3.1	-6.6	- 50		207	- 169	- 174	
Main activity producers	-0.3			-4.2			-0.9	-3.3			- 169	- 113			-2.9	-6.6			201	- 131		
Autoproducers	-4.5			-0.5			-0.5				-8.8	-2.3			-0.2		-5.2		6.1	- 15		
Gas processing	4.5			0.5			0.5				0.0	2.0			0.2		5.2		0.1	10	1.1	Gas processing
Petroleum refineries			- 293	279	80	17	108	53	3.4	18										- 14		Petroleum refineries
Coal transformation			- 255	213	00	"	100	33	3.4	10										- 1-		Coal transformation
Other transformation																	-8.4			-8.4	-8.4	
Losses & own use				-2.5						-2.5	- 42						-0.4		- 28	- 73		Losses & own use
Discrepancy			-2.7	0.4			-1.0	0.2	2.3		- 42						-1.5		- 20	-3.7		
	22	4.0		458					91		00				1.6		138		170	898		<u> </u>
Total final consumption	22 22			458	95		246		91		98 98				1.6		138		179 179	891		
Total final energy consumption															1.0							57 1
Industry sector	22	1.5)	46			25		17		56						15		104	244		·
Mining and quarrying				17	1.2		14		1.8		2.3						0.8		59	80	8.0	
Construction																						Construction
Iron and steel																						Iron and steel
Chemical & petrochemical																						Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	22	1.5	5	29			11	2.5	15		54						14		45	164	14	
Transport sector				346	89	8.6	210		31		24						15		0.3	385		
Domestic air transport				8.6		8.6														8.6		Domestic air transport
Road				330	89	0.0	210		31		24						15			369		
Rail				330	03		210		31		24						13		0.3	0.3		Rail
Inland waterways																			0.3	v.J		Inland waterways
Non-specified transport				7.6				7.6												7.6		Non-specified transport
				7.6 59			12		42		17				1.6		109		75	7.6 261		
Other sector Residential				38			12		42 38		8.8				1.6		109		38	188	103	
							7.0															
Commerce and public services				12			7.8		3.9		8.1				0.6		5.8		31	57		
Agriculture				3.3			2.1		0.1								0.2		5.0	8.5		
Fishery				5.8	3.8		1.9				0.2						0.3		0.8	7.0	0.3	
Non-specified																						Non-specified
Non-energy				7.4						7.4										7.4		Non-energy
										Elect	tricity and heat											
Electricity generated (GWh)	130			631								31 926			888	1 823				57 517		, ,
Electricity plants	130			631							21 633	31 926			888	1 823	487			57 517	35 123	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
· · · - · · · · · · · · · · · · · · · ·																						CHP plants

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

Major energy indicators of Peru

													etajoules													
Total	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Primary energy supply	418 446	477 421	519 385	501 385	507 390	497 390	555 396	580 454	572 485	605 519	674 546	713 653	753 820	931 977	979 1 023	955 1 058	1 014 1 098	1 072 1 043	1 081 1 081	1 095 1 032	1 09 6 1 03 9	1 137 1 083	961 997	1 130 983	1 195 1 061	P rimary energy supply
P ro ductio n Import	70	182	226	228	243	279	282	284	286	324	311	283	309	346	328	344	307	333	448	519	492	463	320	438	473	Production Import
Export	- 95	- 107	- 88	- 119	- 122	- 144	- 125	- 159	- 146	- 173	- 169	- 180	- 305	- 414	- 439	- 458	- 390	-350	- 464	- 502	- 442	- 412	- 342	- 309	- 326	E xport
Final energy consumption Industry	363 81	404 92	452 122	434 116	442 125	445 127	480 137	464 141	482 138	506 161	561 166	617 166	643 170	672 182	681 177	731 201	729 201	776 212	804 209	831 230	832 240	858 251	740 207	891 244	923 271	Final energy consumption Industry
Transport	105 151	128 142	142 149	134 151	125 152	129 150	159 146	146 137	163 142	158 142	210 135	230 167	253 165	272 157	286 154	307 158	307 160	335 158	369 155	378 155	360 169	378 163	296 176	385 188	399 183	Transport
Residential Commerce & public services	14	12	11	10	15	14	12	19	17	27	31	35	37	41	43	46	48	52	54	58	54	57	51	57	59	Residential Commerce & public services
Others	14	30	27	23	25	24	28	21	21	18	18	20	17	20	21	19	14	19	17	9.3	9.5	10	10	16	11	Others Cool and post
Coal and peat Primary energy supply	4.4	11	21	18	28	30	31	31	25	35	32	33	32	34	35	36	33	33	34	29	26	28	20	27	29	C oal and peat P rimary energy supply
P ro ductio n Import	2.8 1.3	1.5 7.4	0.5 19	0.6 14	0.6 25	0.5 23	0.7 27	1.2 28	3.1 21	3.3 28	3.9 20	4.3 22	2.7 28	4.9 18	6.2 19	5.8 30	6.2 15	7.1 12	7.3 18	8.3 14	5.8 10	5.0 11	3.3 8.0	3.9 8.8	5.2 13	Production Import
Export													-3.1	-5.1	-3.7	-3.7	-7 A	-7.4	-4.8	- 10	- 19	- 18	-0.6	- 24	-2.3	Export
Transformation sector Power generation	-1.1	-1.5	-5.4 -4.2	-5.1 -3.7	- 11 -9.4	- 10 -9.2	- 12 - 11	-10 -10	- 10 - 10	- 10 - 10	- 11 - 11	- 11 - 11	- 12 - 12	- 12 - 12	- 13 - 13	- 14 - 14	-8 <i>.</i> 4 -8 <i>.</i> 4	-6.9 -6.9	- 13 - 13	-9.4 -9.4	-4.9 -4.9	-5.9 -5.9	-5.3 -5.3	-4.8 -4.8	-4.3 -4.3	Transformation sector Power generation
Final energy consumption	2.7	10	16	14	18	20	20	22	15	25	22	23	26	24	24	23	27	29	23	20	21	22	14	22	24	Final energy consumption
Industry	2.4	9.5	16	14	18	20	20	22	15	24	22	23	25	24	24	23	26	29	23	20	21	22	14	22	24	Industry
Transport Residential	0.3	0.3																								Transport Residential
C ommerce & 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 0.1								C ommerce & public services Others
Coal and peat products														0.1	0.1											C oal and peat products
Primary energy supply Production	1.7	4.2	5.6	5.7	5.0	5.2	6.8	7.1	7.9	8.8	7.2	1.3	1.8			1.0	2.5	1.1	2.5	2.1	2.1	1.6	1.7	1.5	1.6	Primary energy supply Production
Import Export	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	-1.1	1.0 -1.0	0.4 -1.0	1.0	3.4	1.7	2.1	2.8	0.9	1.9	2.2	Import 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				-1.1	-1.0	-120									Transformation sector
Powergeneration																										Power generation
Final energy consumption	1.1 1.1	1.3 1.3	1.0 1.0	1.2 1.2	1.2 1.2	1.1 1.1	1.0 1.0	1.3 1.3	1.3 1.3	1.3 1.3	1.6 1.6	1.3 1.3	1.8 1.8			1.0 1.0	2.5 2.5	1.1 1.1	2.5 2.5	2.1 2.1	2.1 2.1	1.6 1.6	1.7 1.7	1.5 1.5	1.6	Final energy consumption
Industry Transport			110				1.0				110	5					2.5		2.0	2.11	2	110				Industry Transport
Residential Commerce & public services																										Residential Commerce & public services
Others																										Others
Crude oil & NGL Primary energy supply	302	293	312	331	322	310	329	401	388	402	401	450	463	450	455	453	455	445	451	509	486	468	302	343	324	C rude oil & NGL P rima ry energy supply
P ro ductio n	274 37	258 101	210 129	205 157	204 156	201 176	192 176	222 203	232 214	229 233	239 205	278 210	298 201	289 199	289 192	308 179	314 176	268 181	232 223	250 265	252 238	263 222	232 86	222 144	219 142	Production
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	- 35	Import Export
Transformation sector	- 311	- 312	- 324	- 340	- 337	- 337	- 343	- 345	-349	- 365	- 366	- 401	- 432	- 414	- 399	- 379	- 388	-371	- 333	- 412	- 399	- 382	- 205	- 293	- 263	Transformation sector
Petroleum refineries Petroleum products	- 311	- 312	- 324	- 340	- 337	- 337	- 343	- 345	- 349	- 365	- 366	- 401	- 432	- 414	- 399	- 379	- 388	-371	- 333	- 412	- 399	- 382	- 205	- 293	- 263	P etroleum refineries P etroleum products
Primary energy supply Import	- 58 30	6.8 67	6.6 72	- 34 52	- 34 57	- 36 75	- 16 73	-90 48	- 99 42	- 127 54	- 70 78	- 145 47	- 177 75	- 23 120	- 31 107	- 37 121	-46 100	16 126	- 25 182	- 17 217	-9.0 224	29 210	82 210	124 266	179 298	P rima ry ene rgy supply Import
Export	- 88	- 48	- 59	- 79	- 77	- 83	- 90	- 132	- 95	- 115	- 130	- 140	- 172	- 153	- 185	- 170	- 134	-125	- 212	- 258	- 198	- 156	- 98	- 117	- 96	Export
Transformation sector	277 - 32	269 - 39	288 - 29	312 - 22	309 - 22	308 - 23	301 - 36	313 -25	324 - 20	340 - 17	332 - 27	367 - 21	396 - 22	383 - 18	366 - 17	361 - 15	372 -12	327 - 12	335 - 17	362 - 21	357 - 14	337 - 13	215 -5.4	274 -4.7	228 -7.4	Transformation sector
Power generation Petroleum refineries	309	308	317	334	331	331	337	338	344	357	359	388	418	401	383	376	384	339	352	383	371	349	220	279	236	Power generation Petroleum refineries
Final energy consumption	207	254	282	264	262	261	286	264	271	263	313	326	335	354	356	384	381	409	429	433	413	431	356	451	467	Final energy consumption
Industry Transport	42 105	48 128	70 142	64 134	66 125	65 129	72 159	67 146	62 163	63 156	62 205	61 217	53 235	55 246	51 253	53 274	51 273	50 299	40 329	39 336	44 316	45 333	40 263	46 346	61 352	Industry Transport
Residential Commerce & public services	36 12	37 12	43 10	44 9.2	44 14	42 13	29 10	25 11	24 8.4	25 8.4	26 10	26 12	27 13	29 15	30 15	33 17	34 17	35 19	36 19	37 17	40 11	38 11	39 11	38 12	38	Residential
Others	12	29	17	13	13	12	16	14	12	11	11	10	7.1	9.4	6.7	7.7	6.5	7.0	5.5	4.3	3.4	4.2	3.9	9.1	4.5	C ommerce & public services Others
Gas Primary energy supply	19	18	21	21	23	26	40	68	78	109	136	172	230	270	286	269	336	330	347	301	304	319	266	318	362	Gas P rimary energy supply
P ro ductio n	19	18	21	21	23	26	40	68	78	109	136	172	319	492	502	521	551	531	588	523	514	543	487	460	555	Production
Import Export													- 89	- 222	- 216	- 252	- 215	-201	- 241	- 229	- 210	- 224	- 220	- 143	- 192	Import E xport
Transformation sector	-3.1	-2.4	-9.5	- 10	- 13	- 15	- 26	-45	- 46	- 68	- 85	- 103	- 131	- 150	- 164	- 150	- 176	-182	- 200	- 166	- 168	- 178	- 150	- 178	- 208	Transformation sector
Power generation	-3.1	-2.4	-9.5	- 10	- 13	- 15	- 26	-45	- 46	- 68	- 85	- 103	- 131	- 150	- 164	- 150	- 176	- 182	- 200	- 166	- 168	- 178	- 150	- 178	- 208	Power generation
Final energy consumption Industry	3.1 1.2	0.1			0.2	8.0	2.0	6.3 5.9	14 13	22 19	31 23	38 24	48 29	60 35	60 32	82 48	78 41	81 45	80 48	90 56	96 52	102 56	76 41	98 56	109 58	Final energy consumption Industry
Transport Residential									0.3 0.2	1.9 0.5	5.4 0.9	11 1.6	15 2.1	17 6.7	23 3.8	25 7.4	26 8.4	27 4.6	27 0.9	29 1.0	30 8.9	31 8.8	21 8.3	24 8.8	31 10	Transport Residential
C ommerce & public services	1.9	0.1								0.1	0.2	0.2	0.3	0.4	0.7	1.1	1.6	2.5	3.2	4.0	5.0	6.5	5.8	8.1	9.1	C ommerce & public services
Others Electricity					0.2	8.0	2.0	0.4	0.5	0.9	8.0	1.2	0.3	0.5	0.2	0.7	1.1	1.7		0.1	0.2	0.2	0.2	0.2	0.1	Others Electricity
Power generation	50	58	72	75	79	83	87	92	98	108	117	119	129	141	144	157	165	174	186	190	198	207	190	207	215	Powergeneration
Thermal Hydro	12 38	11 46	13 58	11 63	14 65	15 67	24 63	25 65	26 71	36 70	47 69	47 70	55 72	61 78	64 77	72 80	78 80	82 85	92 87	79 105	78 111	82 113	69 110	81 115	96 107	Thermal Hydro
Nuclear Others	0.5	0.5	0.6	0.6	0.7	0.7	0.6	1.3	1.3	1.5	1.7	1.7	2.4	2.4	2.9	4.4	6.6	6.6	7.2	6.9	10	12	11	12	12	Nuclear Others
Final energy consumption	42	46	62	66	70	73	78	82	88	97	105	107	114	126	130	138	143	152	163	167	174	179	164	179	188	Final energy consumption
Industry	26	27	35	37	40	41	44	45	47	53	58	56	60	67	69	74	78	84	94	96	100	103	92	104	110	Industry
Transport Residential	15	18	23	24	25	26	29	25	28	23	25	26	27	30	31	32	0.1 32	0.2 33	0.2 34	0.2 34	0.2 36	0.3 37	0.3 37	0.3 38	0.3 38	Transport Residential
C ommerce & public services Others	1.3	1.8	1.1 3.4	1.1 3.5	1.2 3.8	1.2 3.7	1.2 3.7	7.4 4.0	8.3 4.5	19 2.1	20 2.5	22 2.7	23 2.8	25 3.6	26 3.7	28 4.5	28 4.1	30 4.4	31 4.5	32 4.6	32 5.6	33 5.6	29 5.7	31 5.8	33 5.9	C ommerce & public services Others
Otiois	1.3	1.0	2.7	2.5	2,0	2.1	2.1	4.0	40	2-1	لب	2.1	2.0	2.0	2.1	7.3	7.1	-1/1	40	4.0	5.0	2,0	2.1	2,0	ادرد	Ottora

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	2022	
Population (million) ¹¹	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	34.05	Population (million) *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	223	
	116	150	170	171	180	188	197	210	225	244	267	270	292	311	330	349	357	369	384	393	409	418	373	423	521	GDP, billion USD (PPP, constant 2017)
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	246	Nominal, billion USD (current)
n .		,,,	32	32	,,,	,,,	01	70	03	102	121	121	140	172	133	201	201	130	132	211	223	220	202	224	240	
GDP per capita °	2.505	3 146	3 279	3 256	3 393	3 497	3 635	3 829	4 083	4 3 9 7	4 764	4 783	5 142	5 421	5 702	5.077	6 056	6 180	6 338	6 4 0 0	6 530	6 550	5 754	6 4 4 7	6 549	GDP per capita
Real term (constant 2015 USD)	2 695	5	5 2.5		6 597								5	5 .2 .		5 9 7 7		0.00	0 330							Real term(constant 2015 USD)
GDP, PPP (constant 2017 USD)	5 240 1 195	6 1 1 6 2 1 8 1	6 376 1 941	6 329 1 926	2 004	6 799 2 126	7 067 2 394	7 444 2 702	7 938 3 123	8 549 3 572	9 2 6 2 4 1 8 5	9 298 4 165	9 997 5 047	10 540 5 827	11 085 6 476	11 621 6 697	11 774 6 615	12 015 6 180	12 321 6 164	12 443 6 676	12 696 6 912	12 735 6 956	11 187 6 064	12 534 6 635	15 287 7 239	GDP, PPP (constant 2017 USD)
Nominal (current USD)	1 193	2 101	1 941	1 920	2 004	2 120	2 394	2 102	3 123	3 3 1 2	4103	4 103	3 047	3 02 /	0470	0 097	0 013	0 100	0 104	0070	0 912	0 930	0 004	0 033	1 239	
Nominal GDP & its components (billion of current PEN)																										Nominal GDP & its components (billion of current PEN)
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	945	Gross domestic product
Household 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	604	Household 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	126	
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	220	
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	-11	- 13	-9.8	Ottook onlings
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	273	
Imports of goods and services	8.0	22	34	34	35	38	43	51	62	77	101	79	99	121	128	136	138	144	148	157	171	175	149	230	268	Imports of goods and services
Real GDP & its components (billion of 2019 PEN) 11																										Real GDP & its components (billion of 2019 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	567	Gross Domestic Product
Household 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	373	Household 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	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	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	-1.9	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	149	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	167	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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	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	32.7	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	52.1	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.	NA.	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	46.4	39.6	59.6	62.9	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	61.0	
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	10.3	
Current account	-1.4	-4.6	-1.5	-12	-1.1	-0.9	0.0	1.1	2.9	1.5	-5.3	-0.7	-3.6	-3.4	-5.4	-9.6	-8.6	-8.8	-4.2	-1.7	-2.6	-1.3	2.2	-5.1	-9.9	
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	8.0	-0.6	6.0	8.9	10.4	-0.4	
Foreign exchange rate (PEN/USD) "	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	3.84	
PPP conversion factor. GDP (PEN/USD) 1	0.07	1.11	1.35	1.33	131	1.31	1.36	1.36	1.42	1.40	1.39	1.41	1.48	1.54	1.60	1.62	1.65	1.71	1.74	1.75	1.75	1.75	1.79	1.86	1.70	r ordigir axonango rato (r Erecop)
, , ,	0.07	1.11	100	155	151	151	150	150	1.72	1.40	1.55	141	140	1.54	1.00	1.02	1.03	1.71	1.74	1.73	1.73	1.75	1.7	1.00	1.70	TTT CONTROL (TENOCE)
Price Indices										400 -	484 -	400 -	400		447.6		422 -	425.5	422.0	422.5	424.5	420 -		4.55.6		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	166.8	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	982	100.0	106.3	108.2	108.6	110.6	112.6	114.5	115.7	117.6	118.9	NA.	NA.	N.A	TTTTGGGGGTT TIGG BTGGX (EG TG-100)
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	150.1	Consumer Fried Hidex (2010–100)
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 <i>A</i>	2.7	Real GDP
Population	2.2	1.9	1.5	1.4	1.2	1.1	1.0	0.9	8.0	8.0	0.7	0.7	8.0	8.0	0.9	1.0	1.0	1.2	1.4	1.5	1.9	1.9	1.5	1.2	1.0	Population
Price																										Price
Producer prices	6 737 A	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.	NA.	N.A	1 Todason 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	8.3	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

Note

: 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

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2022											Petajoules											
						Dotrol	eum products				retajoules	•										
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	319		3.1								109	36		375	6.6	3.7	449	0.1		1 303	871	Production
Import	723		244	646	162	38	287	43	73	43							6.5			1 619	6.5	Im port
Export	- 157	,	-2.7	- 16	-1.1			-1.3		- 14										- 176		Export
International marine bunkers				-4.5			-3.3	-1.2												-4.5		International marine bunkers
International aviation bunkers				- 51		- 51														- 51		International aviation bunkers
Stock changes	- 87		21	-9.6		-2.4		3.4	-1.3	-5.1							2.6			- 72	2.6	
Total primary energy supply	799		266	565	160	- 15	281	44	71	24	109	36		375	6.6	3.7	458	0.1		2 618	880	Total primary energy supply
Transfers																						Transfers
Total transformation sector	- 717		- 247	198		28			9.3	39	- 106	- 36		- 375	-6.6			-0.1		-1 024	- 554	
Main activity producers	- 717	,		- 34			- 26	-8.7			- 106	- 36		- 375	-6.6	-3.7	- 22	-0.1	401	- 900	- 444	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 247	233	59	28	97	0.3	9.3	39										- 14		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	- 110			- 110	- 110	
Losses & own use			- 13								-3.5								- 73	- 89		Losses & own use
Discrepancy			-5.7	1.9					2.4	- 10										-3.8		Discrepancy
Total final consumption	81			765					83	53							326		329	1 502	326	
Total final energy consumption	78			715		14			83	2.4							326		329	1 448	326	0, 1
Industry sector	78			76			50		8.5	0.5							40		104	298	40	,
Mining and quarrying				19			17	2.3	0.2								0.3		4.6	24	0.3	
Construction	10			17 5.9			17 0.6	4.5	0.3								0.3		11 9.0	29	0.3	Construction Iron and steel
Iron and steel	10 2.1			5.9			1.8		0.7 0.8	0.0									9.0 4.3	25 11		
Chemical & petrochemical	2.1			5.0			1.0	2.2	0.0	0.2									4.3	11		Chemical & petrochemical
Non-ferrous metals Non-metallic minerals	39			5.5			1.7	3.6	0.1										1.9	47		Non-ferrous metals Non-metallic minerals
] 33			5.5			1.7	3.0	0.1										1.5	41		Transportation equipment
Transportation equipment Machinery				6.9			4.6	1.1	1.1								0.1		37	44	0.1	
Food, beverages and tobacco	11			13			5.7	2.9	3.8	0.2							38		28	90	38	-
Pulp, paper and printing	8.6			0.4			0.3	0.1	3.0	0.2							30		2.8	12	30	Pulp, paper and printing
Wood and wood products	0.0			0.4			0.5	0.1	0.3										0.4	0.7		Wood and wood products
Textiles and leather	0.6			0.2					0.1										2.8	3.6		Textiles and leather
Non-specified industry	5.4			3.5			2.0	0.4	1.2								0.5		2.3	12	0.5	
Transport sector	J.4			494		14			1.2								22		0.4	516	22	
Domestic air transport				14		14		.5											vr	14	22	Domestic air transport
Road				440		.4	230										22			462	22	
Rail				0.1			0.1												0.3	0.4		Rail
Inland waterways				39			18	13									0.2			39	0.2	
Non-specified transport																						Non-specified transport
Other sector				145	1.0		60	7.3	74	1.9							265		225	634	265	
Residential				55					53	1.9							250		127	432	250	
Commerce and public services				84			55	7.3	22								15		87	186	15	Commerce and public services
Agriculture				2.5			1.8												4.7	7.2		Agriculture
Fishery				3.6			3.3										0.1		5.2	8.9	0.1	
Non-specified																						Non-specified
Non-energy	3.8	1		50						50										54		Non-energy
										Elect	tricity and heat	output										
Electricity generated (GWh)	66 430)		2 519							17 884	10 085		10 425	1 822	1 030	1 310	12	2	111 516	24 671	Electricity generated (GWh)
Electricity plants	66 430			2 519							17 884			10 425	1 822					111 516	24 671	
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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

Energy balance table of The Philippines

2021

											Petajoules	5										
		Coal	Crude oil			Petrole	eum products										Other	_	Electricity and		Total	
	Coal	products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	renewables ¹	Others ²	heat	Total	renewables	
Production	310		3.6								118	33		361	5.3	4.6	444	0.1	1	1279	847	Production
Import	690		167	615	130	18	286	43	76	62							5.3			1 477	5.3	
Export	- 205		-3.6	- 23	-4.4					- 19										- 232		Export
International marine bunkers	203		-5.0	-3.0	4.4		-1.5	-1.5		- 13										-3.0		International marine bunkers
				- 22		- 22		-1.5												- 3.0 - 22		
International aviation bunkers			4.0					0.4														International aviation bunkers
Stock changes	-3.4		4.2	1.9	0.1			-2.1	0.4	1.1	440			204	F 0		2.4			5.0	2.4	
Total primary energy supply	792		171	568	126	-5.1	287	39	77	44	118	33		361	5.3	4.6	451	0.1	1	2 504	855	7 07 117
Transfers																						Transfers
Total transformation sector	- 701		- 162	136	37	11		-6.6	6.8	27	- 113	- 33		- 361	-5.3						- 533	
Main activity producers	- 701			- 17			-9.1	-7.8			- 113	- 33		- 361	-5.3	-4.6	- 24	-0.1	1 382	- 877	- 427	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 162	153	37	11	70	1.2	6.8	27										-8.8		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	- 106			- 106	- 106	
Losses & own use			-1.6								-5.1								- 67			Losses & own use
Discrepancy			-7.6	35	35	1.9	9.9	0.6	-3.8	-8.2	-5.1								-01	28		Discrepancy
	91		-1.0	740	198			33	79	63							322		315		322	
Total final consumption	82																					
Total final energy consumption				680	198	8.0		33	79	3.0							322		315		322	0, 1
Industry sector	82			65			37	19	8.4	0.8							39		99		39	·
Mining and quarrying				14			12	2.0									0.1		4.4		0.1	. , ,
Construction				13			13	0.1	0.4								0.3		11		0.3	Construction
Iron and steel	16			6.8			0.5	5.5	0.8										8.6	31		Iron and steel
Chemical & petrochemical	1.9			4.1			1.6	1.0	0.7	0.8									4.1	10		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	38			8.9			2.9	5.2	0.8								0.1		1.8	49	0.1	Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery				2.6			1.8		0.7										35	38		Machinery
-	7.7			13			4.8	4.7	3.0								20		26		38	·
Food, beverages and tobacco	7.7							4.7									38				30	, 3
Pulp, paper and printing	6.4			0.4			0.2	0.1	0.1										2.6			Pulp, paper and printing
Wood and wood products				0.4			0.1		0.3										0.4			Wood and wood products
Textiles and leather	0.5																		2.6			Textiles and leather
Non-specified industry	11			2.1			0.3	0.1	1.6								0.5		2.2		0.5	Non-specified industry
Transport sector				440	197	8.0	226	8.0	0.1								20		0.4	460	20	Transport sector
Domestic air transport				8.1	0.1	8.0														8.1		Domestic air transport
Road				397	191		205		0.1								19		0.1	416	19	Road
Rail				0.1			0.1												0.4	0.4		Rail
Inland waterways				35	6.2		21	8.0									0.3			35	0.3	
Non-specified transport					0.2		2.	0.0									0.0			-	0.5	Non-specified transport
				475	0.7		94	6.5	71	2.2							263		215	652	263	
Other sector				175	U. /		54	0.5		2.2							263 247		215			
Residential				53					51	2.2									126		247	
Commerce and public services				111			85	6.5	20								15		76		15	'
Agriculture				5.1	0.6		4.4										0.1		7.1		0.1	
Fishery				5.2	0.1		5.0	0.1									0.1		5.8	11	0.1	,
Non-specified																						Non-specified
Non-energy	8.9			60						60										69		Non-energy
										Elect	ricity and hea											
Electricity generated (GWh)	62 052			1 616							19 060			10 016	1 470				В	106 115	23 379	, , ,
Electricity plants	62 052			1 616							19 060	9 185		10 016	1 470	1 270	1 438	8	В	106 115	23 379	
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

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

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Major energy indicators of The Philippines

												Pet	tajoules													
Total	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Primary energy supply Production Import Export	1 110 685 496 - 28	1 355 627 790 - 37	1 621 790 916 - 76	1 543 740 919 - 57	1 563 799 837 - 64	1 562 809 836 - 66	1 551 828 832 - 40	1 589 860 799 - 57	1 572 876 814 - 77	1 612 920 826 - 93	1 689 969 845 - 93	1 669 1 004 743 - 78	1 734 1 029 908 - 143	1 757 1 059 881 - 120	1 827 1 084 915 - 104	1 894 1 059 971 - 109	1 987 1 116 1 079 - 171	2 172 1 135 1 242 -137	2 319 1 246 1 347 - 213	2 453 1 245 1 448 - 203	2 532 1 269 1 580 - 186	2 5 5 0 1 3 2 1 1 5 3 2 - 2 6 7	2 421 1 280 1 380 - 220	2 504 1 279 1 477 - 232	2 618 1 303 1 619 - 176	Primary energy supply Production Import
Final energy consumption Industry Transport Residential Commerce & public services	780 173 196 370 34	908 208 300 350 44	954 190 348 331 71	946 189 344 320 78	943 180 357 312 78	952 202 349 304 80	955 199 361 299 78	941 207 344 296 78	927 211 323 297 81	958 220 336 304 83	966 242 314 309 86	991 225 331 320 101	1 042 249 336 330 111	1 045 249 334 335 115	1 067 243 350 342 118	1 125 264 368 351 127	1 168 273 382 355 142	1 248 283 442 366 141	1 349 312 478 378 162	1 418 332 495 385 184	1 43 6 31 5 51 2 39 5 19 5	1 471 306 532 407 207	1 307 265 411 420 193	1 398 286 460 426 203	1 448 298 516 432 186	Residential
Others Coal and peat Primary energy supply Production	5.7 53 26 30	5.6 69 27 38	15 194 27 151	15 189 25 168	16 177 34 131	17 180 41 131	17 190 55 142	223 64 147	211 51 159	226 75 171	266 80 201	254 104 155	15 294 147 242	323 153 242	338 162 263	419 157 319	15 446 168 335	486 163 382	19 548 248 443	648 264 492	685 260 581	732 304 612	735 286 652	792 310 690	799 319 723	
Import Export Transformation sector Power generation	- 23 - 23	- 31 - 31	- 158 - 158	- 155 - 155	- 144 - 144	- 139 - 139	- 146 - 146	- 173 - 173	- 156 - 156	- 18 - 162 - 162	- 20 - 187 - 187	- 44 - 186 - 186	- 90 - 213 - 213	- 60 - 242 - 242	- 70 - 264 - 264	- 75 - 327 - 327	- 127 - 344 - 344	- 68 - 388 - 388	- 150 - 428 - 428	- 136 - 515 - 515	- 111 - 577 - 577	- 221 - 633 - 633	- 166 - 658 - 658	- 205 - 701 - 701	- 157 - 717 - 717	Import Export Transformation sector Power generation
Final energy consumption Industry Transport Residential C ommerce & public services Others	22 22	31 31	29 29	29 29	29 29	36 36	38 38	44 44	49 49	56 56	73 73	62 62	77 77	77 77	70 70	87 87	95 95	93 93	112 112	126 126	101 101	93 93	68 68	82 82	78 78	Final energy consumption Industry Transport Residential C ommerce & public services Others
Coal and peat products Primary energy supply Production Import Export Transformation sector																										Coal and peat products Primary energy supply Production Import Export Transformation sector
Power generation Final energy consumption Industry Transport Residential Commerce & public services Others																										Power generation Final energy consumption Industry Transport Residental Commerce & public services Others
Crude oil & NGL Primary energy supply Production Import Export	422 10 413	665 5.4 664	643 2.3 639	617 2.7 627	544 11 528	524 0.8 514	413 0.8 411	445 1.2 437	437 1.0 439	432 1.0 417	377 5.4 389 -2.8	311 16 282 -5.0	372 17 375 - 15	385 13 391 - 14	364 9.2 358 -7.9	317 11 316 -7.8	344 17 365 -16	437 14 438 - 14	435 11 442 - 10	447 8.9 436 -7.9	483 7.1 482 -6.0	337 4.4 341 -5.6	198 3.9 185 - 14	171 3.6 167 -3.6	266 3.1 244 -2.7	Crude oil & NGL Primary energy supply Production Import Export
Transformation sector Petroleum refineries	- 436 - 436	- 643 - 643	- 62 6 - 62 6	- 593 - 593	- 512 - 512	- 497 - 497	- 394 - 394	- 424 - 424	-421 -421	- 406 - 406	- 365 - 365	- 291 - 291	- 358 - 358	- 379 - 379	- 339 - 339	- 315 - 315	- 334 - 334	-426 -426	- 440 - 440	- 428 - 428	- 484 - 484	- 335 - 335	- 195 - 195	- 162 - 162	- 247 - 247	Transformation sector Petroleum refineries
Petroleum products Primary energy supply Import	- 15 53	26 88	23 126	24 124	88 178	90 191	176 280	126 215	99 216	110 238	160 255	219 304	198 288	150 243	206 288	259 329	260 370	284 414	342 456	376 514	354 511	461 573	491 537	568 615	565 646	P etroleum products P rima ry energy supply Import
Export Transformation sector Power generation Petro leum refineries	- 28 326 - 107 433	- 37 460 - 182 642	- 76 532 - 88 620	- 57 480 - 103 584	- 64 434 - 68 502	- 66 420 - 68 488	- 40 309 - 81 390	-57 359 -59 417	- 77 373 - 41 414	- 75 361 - 40 401	- 70 315 - 42 357	- 29 232 - 49 281	- 38 285 - 62 347	- 46 334 - 33 367	- 26 288 - 41 328	- 26 260 - 45 305	-28 266 -58 323	- 55 346 - 59 405	- 52 365 - 52 416	- 59 365 - 41 406	- 69 427 - 30 458	- 41 287 - 33 320	- 40 165 - 21 186	- 23 136 - 17 153	- 16 198 - 34 233	Transformation sector Power generation
Final energy consumption Industry Transport Residential Commerce & public services Others	329 94 196 33 4.6 2.2	473 112 300 50 8.6 1.7	526 83 347 60 24 12	517 76 344 56 29	524 70 357 56 29	519 78 349 51 27	523 72 361 54 23	491 70 344 44 21	461 65 323 40 22	467 63 334 39 22 8,8	444 64 310 37 22	465 57 325 39 35 8.7	475 59 328 39 39 9.3	468 55 325 38 41 7.9	478 53 339 38 40 7.9	499 54 354 37 47 8.0	522 51 368 36 60 7.3	586 58 425 41 54 8.4	646 61 460 47 68	685 62 475 49 87	708 61 492 53 93 8.9	731 58 510 55 99	622 65 393 52 103 8.9	680 65 440 53 111	715 76 494 55 84 6.1	Industry
Gas Primary energy supply Production Import		0.2	0.4 0.4	4.8 4.8	61 61	92 92	85 85	113 113	106 106	127 127	134 134	135 135	127 127	137 137	131 131	121 121	127 127	119 119	137 137	135 135	151 151	152 152	138 138	118 118	109 109	Gas Primary energy supply Production Import
Export Transformation sector Power generation		-0.2 -0.2	-0.4 -0.4	-4.8 -4.8	- 52 - 52	- 80 - 80	- 77 - 77	- 107 - 107	- 100 - 100	- 123 - 123	- 129 - 129	- 130 - 130	- 121 - 121	- 130 - 130	- 124 - 124	- 114 - 114	- 119 - 119	-113 -113	- 129 - 129	- 129 - 129	- 139 - 139	- 143 - 143	- 129 - 129	- 113 - 113	- 106 - 106	
Final energy consumption Industry Transport Residential Commerce & public services Others								0.5 0.5	22 22	3.2 3.2	2.9 2.9	2.9 2.9	2.9 2.9	33 32	2.5 2.4 0.0	2.6 2.6	3.2 3.2	2.1 2.1	2.7 2.7	2.2 2.2	2.5 2.5	2.6 2.6	1.6 1.6			Final energy consumption Industry Transport Residential C ommerce & public services Others
Electricity Power generation Thermal Hydro Nuclear	95 52 22	121 76 22	163 93 28	169 106 26	174 112 25	191 127 28	201 133 31	204 138 30	204 131 36	215 147 31	219 145 35	223 150 35	244 180 28	249 178 35	263 188 37	271 199 36	278 207 33	297 221 31	327 248 29	340 256 35	359 275 34	382 302 29	366 289 26	382 298 33	401 313 36	E lectricity Power generation Thermal
Others Final energy consumption Industry Transport	21 76 36	22 96 39	42 132 47 0.2	38 141 52 0.2	37 139 49 0.2	35 154 55 0.1	37 159 54 0.2	36 163 57 0.3	38 164 57 0.3	37 173 59 0.4	39 177 61 0.4	37 183 62 0.4	36 199 67 0.4	37 202 70 0.4	38 213 72 0 <i>A</i>	36 222 74 0.4	38 228 77 0.4	244 81 0.4	50 267 87 0.4	49 280 92 0.4	50 297 99 0.4	50 314 101 0.4	52 300 92 0.3	51 315 99 0.4	53 329 104 0.4	Others Final energy consumption Industry Transport
Residential Commerce & public services Others	20 17 3.5	30 23 3.8	46 34 3.2	49 36 3.6	49 37 3.8	55 40 3.7	57 42 4.7	58 44 3.9	57 46 42	59 48 5.5	60 51 4.6	63 53 5.1	68 59 5.4	67 60 4.8	71 64 5.6	74 66 6.7	75 68 7.5	82 72 8.5	92 78 9.1	96 82 9.2	102 86 9.5	110 92 10	123 75 9.2	126 76 13	127 87 10	Residential C ommerce & public services Others

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	2022	
Population (million) 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	115.56	Population (million) *1
Gross domestic product 13																										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	408	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	1 078	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	404	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 2 4 7	2 3 0 1	2 292	2 416	2 465	2 589	2 718	2 844	2 974	3 131	3 2 8 9	3 439	3 590	3 196	3 3 2 8	3 528	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 2 2 8	5 465	5 5 9 7	5 574	5 876	5 99 5	6 2 9 8	6 611	6 918	7 235	7 616	8 0 0 2	8 366	8 732	7 773	8 096	9 327	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	3 499	Nominal (current USD)
Nominal GDP & its components (billion of current PHP) *1																										Nominal GDP & its components (billion of current PHP) *1
Gross domestic product	1 2 2 8	2 177	3 698	4 024	4 351	4 718	5 324	5 917	6 5 5 0	7 1 9 8	8 0 5 0	8 390	9 399	10 145	11 061	12 051	13 207	13 944	15 132	16 557	18 265	19 518	17 952	19 411	22 028	Gross domestic product
Household final consumption expenditure	834	1 545	2 652	2 934	3 180	3 468	3 918	4 376	4800	5 2 0 1	5 8 9 2	6 141	6 598	7 317	8 025	8 678	9 413	10 106	10 979	11951	13 250	14 288	13 476	14 609	16 725	Household 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 3 0 4	1 395	1 522	1 704	1875	2 200	2 433	2 740	3 024	3 314	General government final consumption expenditure
Gross fixed capital formation	N.A.	N.A.	716	737	798	879	987	1 076	1 2 2 6	1 3 5 9	1 536	1 562	1 918	1 924	2 2 0 4	2 5 0 4	2 755	3 100	3 783	4 2 4 6	4 983	5 300	3 824	4 3 2 5	5 143	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	294	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 8 9 3	5 519	5 540	4 524	4 9 9 9	6 253	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 5 6 5	2 763	2 573	3 123	3 215	3 3 6 0	3 573	3 977	4 453	5 312	6 3 9 4	7 662	7 897	5 918	7 3 2 4	9 702	Imports of goods and services
Real GDP & its components (billion of 2019 PHP) 11																										Real GDP & its components (billion of 2019 PHP) 11
Gross Domestic Product	5 240	5 845	6 985	7 198	7 466	7 846	8 361	8 774	9 241	9 843	10 271	10 420	11 184	11 615	12 416	13 255	14 096	14 991	16 063	17 176	18 265	19 383	17 538	18 540	19 946	Gross Domestic Product
Household final consumption expenditure	3 732	4 2 9 2	5 356	5 568	5 852	6 166	6 530	6 821	7 1 0 6	7 4 4 8	7 735	7 930	8 215	8 671	9 2 6 1	9 8 0 0	10 366	11 035	11 823	12 528	13 250	14 027	12 911	13 455	14 570	Household 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 4 1 9	1 489	1 543	1 665	1 821	1 940	2 200	2 400	2 652	2 843	2 989	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 4 1 2	4 983	5 176	3 762	4 132	4 535	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	71	Stock change
Exports of goods and services	844	1 3 2 0	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 9 3 5	5 519	5 664	4 750	5 130	5 692	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 9 3 9	7 912	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
Agriculture, Fishery and Forestry	16.8	16.2	152	15.4	15.3	15.3	15.0	14.8	14.7	14.6	14.4	142	13.4	13.3	12.9	12.4	11.9	11.3	10.4	10.1	9.7	9.2	10.2	9.6	8.9	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	29.6	Industry
Services, etc.	49.9	50.7	52.8	532	53.2	53.3	54.2	54.4	55.0	55.6	55.A	56.4	56.6	57.3	57.5	58.0	58.2	58.8	59.3	59.6	59.8	60.4	60.7	60.5	61.4	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 <i>A</i>	90.5	100.0	105.9	105.2	104 <i>A</i>	108.2	135.0	150.8	150.3	107.6	98.1	58.4	0.0	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.	8.1	17.5	38.1	322	35.2	36.2	39.7	41.3	47.4	50.5	49.1	38.4	51.5	48.3	52.1	56.7	62.1	58.8	56.3	68.7	67.5	70.3	63.9	74.6	78.9	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 A	45.9	58.5	64.1	65.8	65.7	68.7	74.8	85.9	101.9	115.1	112.9	90.8	124.4	145.9	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Trade balance	-4.0	-8.9	-82	-8.1	-7.6	-8.1	-8.3	-12.1	-11.5	-14.0	-18.6	-13.9	-16.9	-20.4	-18.9	-17.7	-17.3	-23.3	-35.5	-40.2	-51.0	-49.3	-33.8	-52.8	-69.7	Trade balance
Current account	-2.7	-2.0	-22	-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 <i>A</i>	10.8	7.3	-1.2	-2.1	-8.9	-3.0	11.6	-5.9	-18.1	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	12	5.0	-1.3	0.7	0.5	5.1	18.5	0.6	-5.2	Overall balance
Foreign exchange rate (PHP/USD) 1	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	54.48	Foreign exchange rate (PHP/USD) *1
PPP conversion factor, GDP (PHP/USD) *1	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 <i>A</i> 3	19.49	19.08	19.09	PPP conversion factor, GDP (PHP/USD) "1
Price Indices																										Price Indices
GDP Deflator (2018=100) *3	23.4	37.2	52.9	55.9	58.3	60.1	63.7	67.4	70.9	73.1	78.A	80.5	84.0	87.3	89.1	90.9	93.7	93.0	94.2	96.4	100.0	100.7	102.4	104.7	110.4	GDP Deflator (2018=100) ³
Producer Price Index (2010=100) 2	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	8.06	59.4	56.7	55.7	59.2	Producer Price Index (2010=100) 2
Consumer Price Index (2010=100) 2	28.6	46.6	63.7	67.1	68.9	70.5	73.9	78.7	83.0	85 <i>A</i>	92.A	963	100.0	104.7	107.9	110.7	114.7	115.4	116.9	120.2	126.6	129.6	132.7	137.9	146.0	Consumer Price Index (2010=100) '2
Growth rate (%) '3																										Growth rate (%) '3
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	7.6	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	1.5	Population
Price		4.5	125	454	2.2	0.5	42.2	0.5	44.5				4.5	0.0	0.5				4.5	0.0	246	2.5		4.5		Price
Producer prices	N.A. 12.2	4.2 6.8	12.5 4.0	15.1 5.3	2.0 2.7	8.6 2.3	12.0 4.8	9.0 6.5	11.2 5.5	-0.7 2.9	4.1 8.3	-1 <i>A</i> 42	-4.9 3.8	0.9 4.7	-0.6 3.0	-7.6 2.6	-0.9 3.6	-6.7 0.7	-4.8 1.3	-0.9 2.9	-24.8 5.3	-2.3 2.4	-4.6 2.4	-1.8 3.9	6.4 5.8	Producer prices
Consumer prices	12.2	8.0	4.0	0.5	2.1	2.5	4.8	0.0	5.5	2.9	8.5	42	5.8	4.7	3.0	2.0	5.0	U./	1.3	2.9	3.3	2.4	2.4	5.9	3.8	Consumer prices

Source

*1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

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

CONSUMER PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	PHP / US Dollar	45.11	43.31	42.23	42.45	44.40	45.50	47.49	50.40	52.66	51.80	49.62	49.25	54.50
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal	PHP/tonne						3 900						3,263	
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG	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	72.45
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	74.52
Gas/Diesel Oil	PHP/L		49.19				33.32	25.36					44.26	72.12
Fuel Oil	PHP/L		40.05				31.78							
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas	USD/GJ							6.06						
Liquefied Natural Gas (export)								0.00						
Compressed Natural Gas	PHP/dL		14.52											
Electricity			17132											
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			8.72	7.60			9.00		7.79		
Residential	PHP/kWh	10.17	11.14				8.87							
Others	PHP/kWh	10.17	10.74		12.03	10.03	0.07	0.03	5,00	10.43	5,00	0.57	5,32	
50.010	////	1	10.74											

Russia

Energy balance table of Russia

2022

											Petajoules	;										
						Petrole	eum products										0.11		- 1		-	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear (Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	7 734		21 226								21 304	711	2 481	16	8.4	12	0.9	36	i	53 528	747	Production
Import				38	0.1	1.1	1.9	2.1	3.8	29	228								9.6	276		lm port
Export	-4 640	- 502	-10 032	-4 403	- 149	- 86	-1426	-1 627	- 112	-1 003	-5 738								- 97	-25 411		Export
International marine bunkers				- 222			- 180	- 42												- 222		International marine bunkers
International aviation bunkers				- 202		- 202														- 202		International aviation bunkers
Stock changes				- 43	- 36					-7.3										- 43		Stock changes
Total primary energy supply	3 094	- 502	11 194	-4 832	- 185	- 287	-1 604	-1 667	- 108	- 981	15 794	711	2 481	16	8.4	12	0.9	36	- 87	27 926	747	Total primary energy supply
Transfers																						Transfers
Total transformation sector	-2 835	629	-9 858	9 922	1 555	467	2 956	1 695	1 126	2 122	-8 693	- 711	-2 451	- 16	-8.4	- 12	-4.3	- 36	9 178	-4 896	- 751	Total transformation sector
Main activity producers	-1770			- 23				- 23			-7 534	- 706	-2 451	- 16	-8.4	- 12	-2.9		6 410	-6 114	- 745	Main activity producers
Autoproducers		- 141	- 29	- 180			- 55	- 92	-0.8	- 32		-4.3					-1.5	- 36	2 768	2 376	-5.8	Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-9 829	10 125	1 555	467	3 011	1 810	1 127	2 155										296		Petroleum refineries
Coal transformation	-1 065	770																		- 295		Coal transformation
Other transformation											-1 159									-1 159		Other transformation
osses & own use	-6.8	-1.4	- 248	- 150			- 135	- 12	-2.1		- 598								- 895	-1 899		Losses & own use
Discrepancy		-5.4		41	- 15	80	13	29	- 51	- 13	- 286		- 30				4.1		40	- 236	4.1	Discrepancy
Total final consumption	252	120	1 088	4 982	1 355	260	1 230	44	964	1 128	6 217						0.7		8 236	20 896	0.7	Total final consumption
Total final energy consumption	246	118	3.9	3 463	1 355	260	1 230	44	479	94	4 509						0.7		8 236	16 577	0.7	Total final energy consumption
Industry sector	85	96	2.7	374			249	19	11	94	1 369						0.1		3 219	5 146	0.1	Industry sector
Mining and quarrying	1.8	0.4	2.5	80			77	2.3			132								167	383		Mining and quarrying
Construction	0.5	0.1		100			98	0.4	0.9		104								64	268		Construction
Iron and steel	42	52		9.1				8.6	0.4		431								822	1 357		Iron and steel
Chemical & petrochemical	7.5	9.2		14			6.2	1.1	7.0		242								1 164	1 4 3 7		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	24	29		20			17	2.4	0.6		283								150	506		Non-metallic minerals
Transportation equipment	0.3	0.3		8.1			6.7	0.8	0.5		24								128	161		Transportation equipment
Machinery	0.1	0.1		7.2			7.1		0.1		64								116	186		Machinery
Food, beverages and tobacco	3.9	4.7		21			20		1.4		46								242	318		Food, beverages and tobacco
Pulp, paper and printing			0	6.4			3.1	3.2	0.1		12								240	259		Pulp, paper and printing
Wood and wood products				6.9			6.8	0.1	0.1		9.2								79	95		Wood and wood products
Textiles and leather	3.9		0.1	0.6			0.6	0.1			3.6								17	25		Textiles and leather
Non-specified industry	0.1		0.1	100			6.0		0.1	94	20						0.1		31	151	0.1	
Transport sector	2.9			2 402	1 355	260	732	8.1	46	34	935						U. I		339	3 678	0.1	Transport sector
Domestic air transport	2.5			260	1 333	260		0.1	40		333								333	260		Domestic air transport
Road				1 948	1 345	200	557		46		27									1 975		Road
Rail	2.9			150	1.1		149	0.1	0.1		21								222	375		Rail
	2.3			150	0.5		9.1	4.9	0.1		2.7								222	17		
Inland waterways				29	9.2		9.1	3.2	0.1		906								116	1 051		Inland waterways
Non-specified transport	450	20	1 12		9.2			17									0.0		4 678		0.0	Non-specified transport
Other sector	159 59	22	1.3	688 510			249		422		2 205						0.6 0.2		4 678 2 625	7 754 5 003	0.6	
Residential	1	20	0.4				91	0.4	419		1 808										0.2	
Commerce and public services	84	22		54			50	4.0	0.8		121						0.3		1 045	1 326	0.3	Commerce and public service
Agriculture	1.8	0.4	0.4	101			99	42	1.9		57						0.1		209	371	0.1	
Fishery	1			22			8.6	13			046								700	22		Fishery
Non-specified	14		0.4	4.540					105	4.00.	219								799	1 032		Non-specified
Non-energy	6.1	1.4	1 084	1 519					485		1 708									4 318		Non-energy
	1									Elect	ricity and heat											
Electricity generated (GWh)	193 381			9 356								200 475	223 336	449	2 327	3 200		2 527	,	1170 642	206 500	, , ,
Electricity plants				4 577							16 677	200 475	223 336	449	2 327	3 200				451 040	206 451	
CHP plants	193 381			4 779							518 865						50			719 602	50	CHP plants
Heat generated (PJ)	975			149							3 802		15				1	22		4 964	1	Heat generated (PJ)
Heat plants	410			108							303						1	19)	841	1	Heat plants
CHP plants	565			41							3 499		15					3		4 122		CHP plants

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

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

^{3.} Russia's 2022 energy balance is developed by the EGEDA secretariat using its estimates, actual monthly oil and natural gas data, and electricity data from Rosstat.

Energy balance table of Russia

2021

											Petajoules	5										
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Petrole Jet fuel	Gas/	Fuel oil	LPG	Other	Gas	Hydro	Nuclear Ge	eothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
roduction	7 422		20 811				diesel oil			products	23 237	771	2 468	15	4.7	6.9	0.8	33		54 770	799	Production
port	486	86		36	0.1	1.1	1.9	2.0	3.6	28	249	,,,	2 400	15	4.1	0.5	0.0	55	9.5	867	, , , ,	Import
port	-4 672	- 831	-9 220	-4 235	- 143	- 86	-1370	-1 564	- 108	- 963	-6 258								- 96	-25 313		Export
ernational marine bunkers	-4012	- 031	-3 220	- 214	- 143	- 00	- 173	-1504	- 100	- 303	-0 230								- 30	- 214		International marine bunkers
ternational aviation bunkers				- 202		- 202	- 113	-41												- 202		International aviation bunkers
tock changes	-0.6	-0.1	- 78	- 43	- 34	- 202				-8.8	- 89									- 211		Stock changes
otal primary energy supply	3 235	- 745		-4 657	- 178	- 287	-1541	-1 602	- 104	- 944	17 138	771	2 468	15	4.7	6.9	0.8	33	- 87	29 698	799	
ransfers	3 233	- 140	11313	4 001	- 110	- 201	-1341	-1002	- 104	- 144	17 130	- 111	2 400	13	4.1	0.5	0.0	33	-07	23 030	133	Transfers
otal transformation sector	-2 981	872	-10 201	9 566	1 495	467	2 841	1 629	1 082	2 050	-9 482	- 771	-2 438	- 15	-4.7	-6.9	-0.8	- 33	9 222	-6 274	- 799	Total transformation sector
Main activity producers	-1727	012	10 20 1	- 23	1455	401	2 041	- 23	1002	2 000	-8 218	- 767	-2 438	- 15	-4.7	-6.9	0.0	55	6 443	-6 756	- 794	Main activity producers
Autoproducers	-1121	- 141	- 29	- 173			- 53	- 88	-0.8	- 31	-0210	-4.7	-2 430	- 13	4.1	-0.5	-0.8	- 33		2 397	-5.5	Autoproducers
Gas processing		- 141	- 23	- 1/3			- 33	- 00	-0.0	-31		-4.1					-0.0	- 33	2113	2 331	-0.0	Gas processing
Petroleum refineries			-10 172	9 762	1 495	467	2 894	1 740	1 083	2 082										- 410		Petroleum refineries
Coal transformation	-1 254	1 013	-10 172	3 102	1433	401	2 034	1740	1 003	2 002										- 241		Coal transformation
	-1254	1 0 13									-1 264									-1 264		Other transformation
Other transformation		4.5	040	444			420	40	0.0										20.4			
osses & own use	-6.3 4.1	-1.5		- 144	44	80	- 130	- 12 27	-2.0	0.0	- 908 33		20						- 894 11	-2 202		Losses & own use
Discrepancy	_	-5.4		47	- 14		12		- 49	-8.9			- 30							83		Discrepancy
otal final consumption	252	120		4 813	1 303	260	1 182	43	927	1 098	6 781								8 252 8 252	21 304 16 877		Total final consumption
otal final energy consumption	246	118		3 338	1 303	260	1 182	43	461	89	4 918											Total final energy consumption
Industry sector	85	96		358			240	18	11	89	1 493								3 245	5 280		Industry sector
Mining and quarrying	1.8	0.4		77			74	2.2			144								167	392		Mining and quarrying
Construction	0.5	0.1		96			95	0.4	0.9		113								62	272		Construction
Iron and steel	42	52		8.7				8.3	0.4		470								825	1 398		Iron and steel
Chemical & petrochemical	7.5	9.2		14			6.0	1.1	6.8		264								1 178	1 472		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	24	29		19			17	2.3	0.6		309								151	532		Non-metallic minerals
Transportation equipment	0.3	0.3		7.8			6.5	8.0	0.5		26								130	164		Transportation equipment
Machinery	0.1	0.1		6.9			6.8		0.1		69								117	193		Machinery
Food, beverages and tobacco	3.9	4.7	0.1	20			19		1.3		50								245	324		Food, beverages and tobac
Pulp, paper and printing				6.2			3.0	3.1	0.1		13								243	263		Pulp, paper and printing
Wood and wood products				6.7			6.6	0.1			10								79	96		Wood and wood products
Textiles and leather	3.9		0.1	0.6			0.6				3.9								17	25		Textiles and leather
Non-specified industry	0.1			95			5.7		0.1	89	21		***************************************						31	148		Non-specified industry
Transport sector	3.6			2 319	1 303	260	703	7.8	45		1 020								325	3 667		Transport sector
Domestic air transport				260		260														260		Domestic air transport
Road				1 872	1 293		535		44		29									1 902		Road
Rail	3.6			144	1.0		143	0.1	0.1										214	362		Rail
Inland waterways				14	0.5		8.7	4.7	0.1		2.9									17		Inland waterways
Non-specified transport				28	8.8		16	3.0	0.3		988								111	1 127		Non-specified transport
Other sector	158	22	1.3	661			239	17	405		2 405								4 682	7 930		Other sector
Residential	59			491			88	0.4	403		1 972								2 639	5 160		Residential
Commerce and public services	82	22	0.4	52			48	3.8	0.8		132								1 041	1 330		Commerce and public servi
Agriculture	1.8	0.4		98			96		1.9		62								206	368		Agriculture
Fishery				21			8.3	12												21		Fishery
Non-specified	14		0.4								239								797	1 051		Non-specified
on-energy	5.8			1 475					466	1 008	1 863									4 428		Non-energy
											ricity and heat	outout										
loctricity generated (CMA)	188 647			8 588						Electi		217 450	222 181	430	1 296	1 929	42	2 269		1160 374	221 147	Floatricity goperated (CM/h)
lectricity generated (GWh)	100 04/			8 588 4 202									222 181	430	1 296	1 929	42	2 209	,	463 603	221 147	Electricity generated (GWh)
Electricity plants	100 647										16 116	21/450	222 181	430	1 296	1 929	42	2.250			221 105	
CHP plants	188 647			4 387							501 426		4.5				42			696 771	42	CHP plants
eat generated (PJ)	956			154							3 896		15				1	22		5 044	1	Heat generated (PJ)
Heat plants	393			111							310						1	19		835	1	Heat plants
CHP plants	563			43							3 586		15					3		4 209		CHP plants

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

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Major energy indicators of Russia

													etajoules													
	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
otal	36 816	26 660	25 932	26 207	26 096	27 022	27 110	24 477	25 3 6 6	25 506	26 002	24 949	25 953	26 942	27 243	26 176	26 40 1	26 095	26 385	26 953	27 997	28 040	27 817	29 698	27 926	Total
Primary energy supply Production	54 145	40 515	40 952	42 217	43 811	46 875	49 088	45 332	46 417	46 889	47 437	44 958	47 837	48 887	49 211	49 633	49 209	49 662	50 824	52 703	54 652	55 450	51 552	54 770	53 528	Primary energy supply Production
Import	5 043	1 259	1 377	1 102	1 047	1 200	1 043	974	992	960	1 186	1 00 6	1 012	1 107	985	1 063	1 112	1 096	901	956	968	915	896	867	276	Import
E xport	-22 318	-14 446	-16 013	-16 585	-18 316	-20 382	-22 577	-21 461	-21 474	-21 991	-21 573	-21 306	-22 212	-22 341	-22 562	-23 777	-23 065	-24 2 0 9	-24 782	-25 464	-26 771	-27 256	-25 043	-25 313	-25 411	Export
Final energy consumption	24 487	17 740	15 976	16 045	15 609	15 927	15 977	15 43 6	16 041	15 918	16 146	15 412	15 9 18	16 302	16 250	16 075	16 145	16 047	16 280	16 735	17 237	17 125	15 641	16 877	16 577	Final energy consumption
Industry	8 737	6 141	5 352	5 3 2 0	5 273	5 206	5 196	5 266	5 485	5 381	5 433	5 118	5 3 5 0	5 388	5 408	5 370	5 306	5 184	5 331	5 318	5 163	5 273	5 063	5 280	5 146	Industry
Transport	4 852	3 188	3 118	3 2 1 7	3 293	3 468	3 718	3 395	3 478	3 525	3 639	3 276	3 5 0 5	3 711	3 450	3 531	3 560	3 651	3 644	3 732	3 737	3 641	3 374	3 667	3 678	Transport
Residential	3 496 1 519	6 151 1 068	5 873 948	6 0 2 7	5 605 812	5 814 838	5 650	4 465 757	4 622	4 506	4 563 907	4 461 1 007	4 490 1 042	4 607	4 763 1 196	4 627 1 165	4 53 9	4 601 1 307	4 447 1 340	4 778 1 432	5 705 1 446	5 600	4 695 1 198	5 160	5 003 1 326	Residential
Commerce & public services Others	5 883	1 191	684	824 657	626	601	856 558	1 553	899 1 5 5 7	852 1 653	1 604	1 550	1 531	1 126 1 470	1 434	1 382	1 23 7 1 50 3	1 3 0 7	1 540	1 475	1 186	1 299 1 311	1 312	1 330 1 440	1 425	C ommerce & public se
paland peat	3 003	1 121	004	037	020	001	330	1 333	1 337	1 033	1 004	1 330	1 3 3 1	1470	1 454	1 302	1 303	1 303	1 310	14/5	1 100	1311	1 312	1 440	1423	Others Coal and peat
Primary energy supply	7 955	5 419	5 065	4 8 9 0	4 944	5 002	4 884	3 685	3 845	3 717	3 992	3 65 5	3 589	3 725	3 903	3 587	3 473	3 6 5 6	3 538	3 329	3 43 6	3 3 7 4	3 114	3 235	3 094	P rimary energy supply
P ro ductio n	8 055	5 471	5 382	5 620	5 428	5 855	6 029	4 953	5 1 0 8	5 201	5 443	5 115	5 442	5 595	6 108	6 002	6 08 5	6 3 7 3	6 680	6 972	7 46 1	7 5 7 2	6 796	7 422	7 734	Production
Import	1 330	576	639	699	522	632	559	463	506	461	608	481	554	521	478	526	517	496	450	520	516	498	500	486		Import
Export	-1 596	- 749	-1 021	-1 157	-1 166	-1 436	-1 791	-1 643	-1 788	-1 919	-1 908	-2 142	-2 343	-2 247	-2 649	-2 943	-3 249	-3 253	-3 562	-3 960	-4 383	-4 526	-4 408	-4 672	-4 640	Export
Transformation sector	-5 857	-4 521	-4 383	-4 372	-4 367	-4 468	-4 380	-3 446	-3 5 3 0	-3 422	-3 679	-3 280	-3 195	-3 323	-3 452	-3 182	-3 049	-3 117	-3 059	-2 870	-2 964	-2 970	-2 850	-2 981	-2 835	Transformation sector
Powergeneration	-4 235	-3 291	-3 174	-3 118	-3 112	-3 141	-2 966	-1 917	-2 052	-1 869	-2 020	-1 620	-1 531	-1 883	-1 783	-1 573	-1 525	-1 680	-1 696	-1 871	-1 729	-1 638	-2 111	-1 727	-1 770	Power generation
Final energy consumption	1 730	562	481	518	420	370	356	286	301	277	297	366	379	389	413	369	378	478	437	442	452	390	249	246	246	Final energy consumption
Industry	78	73	65	77	80	75	73	93	98	112	124	111	121	133	140	144	150	191	179	182	190	144	84	85	85	Industry
Transport	470	222		207	270			17	16	9.5	9.1	11	8.3	7.1	8.4	7.6	7.5	7.2	5.4	4.7	5.1	4.6	4.4	3.6	2.9	Transport
Residential	470 862	328 36	374 16	397 15	278 15	233 14	224 14	96 8.1	110 10	86 8.5	84 8.8	78 97	87 105	86 105	92 115	71 108	68 113	71 167	54 168	54 182	64 176	63 149	54 77	59 82	59	Residential
C ommerce & public services Others	320	125	27	29	47	48	44	71	68	60	72	69	58	57	57	38	39	42	32	19	176	29	29	16	16	C ommerce & public se Others
paland peat products	320	123			-77	-10										30		72		.,					.5	Coal and peat products
Primary energy supply	47	- 10	- 41	- 71	- 80	- 97	- 108	- 392	-385	- 467	- 466	- 499	- 596	- 507	- 634	- 682	- 689	- 645	- 675	- 550	- 701	- 777	- 422	- 745	- 502	P rimary energy supply
Production																									J	Production
Import	139	11	4.8	2.4	0.1	0.1	5.9	143	154	145	195	164	178	141	138	148	136	118	97	78	90	92	57	86		Import
Export	- 96	- 37	- 46	- 60	- 94	- 97	- 112	- 507	- 545	- 603	- 612	- 732	- 754	- 609	- 762	- 831	- 857	-772	- 765	- 598	- 764	- 838	- 505	- 831	- 502	E xport
Transformation sector	530	259	302	341	361	338	335	687	706	820	837	843	951	814	917	958	947	909	902	717	906	962	513	872	629	Transformation sector
Powergeneration	- 158	- 97	- 171	- 175	- 179	- 202	- 212	- 388	-386	- 374	- 409	- 504	- 504	- 438	- 248	- 230	- 195	- 195	- 183	- 132	- 149	- 148	- 80	- 141	- 141	Power generation
Final energy consumption	561	454	241	245	233	211	221	287	313	344	362	335	342	298	269	261	242	244	208	160	194	175	86	118	118	Final energy consumption
Industry	532	439	240	244	232	210	220	217	234	277	291	222	231	205	165	176	163	154	133	105	131	113	60	96	96	Industry
Transport	27	14	1.0	0.7	0.7	0.4	0.4	35	43	35	34	34	38	24	35	27	24	22	16		15	15			ļ	Transport
Residential Commerce & public services	21	14	0.2	0.7	0.7	0.2	0.1	9.0	43 10	35 7.1	7.1	48	30 49	40	35 47	44	42	54	51	11 39	44	16 39	8.3 13	22	22	Residential Commerce & public ser
Others	2.0	0.5	0.1	0.2	0.2	0.2	0.1	26	26	24	29	31	25	21	22	15	13	13	9.3	4.0	4.1	7.4	4.5	0.4	0.4	Others
rude oil & NGL	2.0		0				011												3.5	110			1.5			Crude oil & NGL
Primary energy supply	13 479	7 925	7 69 6	7 9 0 6	8 161	8 315	8 474	8 688	9 1 5 4	9 362	9 746	9 790	10 233	10 565	11 104	11 320	11 992	11 792	11 690	11 736	11 755	11 5 9 8	11 192	11 513	11 194	P rimary energy supply
P ro ductio n	22 033	12 837	13 534	14 5 5 0	15 868	17 610	19 195	18 57 1	18 945	19 417	19 357	19 62 1	20 071	20 356	20 609	20 734	20 92 0	21 228	21 789	21 734	22 106	22 3 18	20 410	20 811	21 226	Production
Import	778	358	248	215	262	241	177	97	92	107	98	71	44	19	33	34	88	114	30	25	20		0.1			Import
Export	-9 333	-5 148	-6 077	-6 821	-7 927	-9 587	-10 840	-10 057	-9 892	-10 295	-9 679	-9 910	-9 836	-9 734	-9 554	-9 421	-8 920	-9 735	-10 147	-10 065	-10 374	-10 717	-9 522	-9 220	-10 032	Export
Transformation sector	-12 934	-7 756	-7 610	-7 846	-8 181	-8 338	-8 300	-7 363	-7 781	-7 961	-8 304	-8 398	-8 871	-9 208	-9 731	-9 875	-10 433	-10 019	-10 046	-10 085	-10 03 0	-9 9 0 7	-10 123	-10 201	-9 858	Transformation sector
Petroleum refineries	-12 871	-7 740	-7 566	-7 802	-8 139	-8 299	-8 262	-7 333	-7 750	-7 932	-8 275	-8 368	-8 842	-9 179	-9 703	-9 848	-10 409	-9 996	-10 023	-10 064	-10 010	-9 886	-10 105	-10 172	-9 829	P etroleum refineries
etroleum products							2 4 6 2																			P etroleum p roducts
Primary energy supply Import	-2 435 307	-1 950 126	-2 416 13	-2 507 10	-2 957 0.3	-2 980 0.1	-3 163 24	-3 005 0.9	-3 255 1.5	-3 456 1.3	-3 494 34	-3 67 1 28	-4 110 99	-4 170 147	-4 352 61	-4 895 64	-5 354 78	-5 289 69	-4 727 40	-4 877 42	-5 057 38	-4 949 42	-4 793 54	-4 657 36	-4 832 38	P rimary energy supply Import
Export	-2 691	-1 927	-2 232	-2 337	-2 790	-2 779	-2 986	-2 864	-2 997	-3 266	-3 352	-3 511	-3 905	-3 969	-4 106	-4 547	-4 705	-4 745	-4 201	-4 323	-4 492	-4 4 1 4	-4 417	-4 235	-4 403	Export
	1			6 848						7 402			8 443													
Transformation sector Power generation	8 756 -2 536	5 918 -1 573	6 604 - 928	- 891	7 193 - 837	7 301 - 806	7 538 - 707	6 60 1 - 50 9	6 981 - 5 17	- 426	7 618 - 378	7 642 - 387	- 331	8 376 - 522	8 583 - 531	9 189 - 321	9 837 - 335	9 699 -282	9 426 - 198	9 721 - 206	9 51 5 - 25 2	9 5 0 8 - 2 0 3	9 584 - 190	9 566 - 196	9 922 - 204	Transformation sector
Petroleum refineries	11 293	7 492	7 532	7 7 3 9	8 030	8 107	8 245	7 160	7 547	7 870	8 042	8 042	8 7 7 5	8 899	9 114	9 510	10 171	9 981	9 624	9 927	9 767	9 7 1 1	9 774	9 762	10 125	Power generation Petroleum refineries
	5 263	2 773	2 97 5	2 9 9 3	2 902	2 907	2 957	2 736	2 855	2 980	3 151	2 707	2 7 0 3	2 993	2 900	2 992	3 316	3 424	3 361	3 482	3 126		3 057	3 338	3 463	
Final energy consumption Industry	1 024	355	710	602	600	2 907 549	506	474	2 0 3 3 5 0 4	2 980 577	599	445	411	2 993 461	502	2 992 517	598	642	681	631	277	3 2 3 9 3 5 0	351	358	374	Final energy consumption Industry
Transport	3 051	1 723	1 77 1	1 860	1 863	1 892	1 993	1 69 1	1779	1 769	1 866	1 825	1 827	1 955	1 848	1 914	2 063	2 142	2 082	2 140	2 120	2 183	2 099	2 319	2 402	Transport
Residential	367	219	182	192	155	156	180	381	364	373	420	239	265	312	328	351	399	411	403	501	526	540	440	491	510	Residential
Commerce & public services	18	15	41	43	37	46	34	30	45	84	83	62	64	96	83	82	95	92	76	87	78	51	51	52	54	C ommerce & public se
Others	803	461	271	297	246	263	243	161	163	177	182	136	135	169	138	127	160	135	118	123	125	116	116	118	123	Others
as	45.303	42.25	43.555	43.555	42.525	445	44.544	47.2	43.555	43.055	47.000	47.77	44.400	44.554	44.070	44.555	44.550	43.030	43.753	44.555	45.55	45.700	45.555	47.430	15.70	Gas
Primary energy supply	15 382 21 638	13 257 20 120	13 356 19 709	13 620 19 626	13 635 20 078	14 344 20 927	14 514 21 324	13 244 19 505	13 677 19 976	13 955 19 830	13 860 20 211	13 277 17 772	14 402 19 826	14 861 20 420	14 676 19 927	14 286 20 321	14 33 9 19 56 7	13 830 19 285	13 753 19 505	14 386 21 051	15 604 22 100	15 783 22 507	15 537 21 140	17 138 23 237	15 794 21 304	P rimary energy supply
P ro ductio n Import	2 3 6 3	122	441	140	20 076	20 927	21 324	234	219	226	20 211	252	130	243	245	249	262	268	272	267	22 100	277	21 140	23 23 7	21 304	Production Import
Export	-8 446	-6 448	-6 55 6	-6 117	-6 275	-6 405	-6 777	-6 309	-6 176	-5 841	-5 947	-4 946	-5 3 0 5	-5 696	-5 440	-5 979	-5 304	-5 645	-6 049	-6 477	-6 715	-6714	-6 163	-6 258	-5 738	
Transformation sector	-9 535	-7 957	-7 93 1	-8 130	-8 200	-8 509	-8 635	-7 757	-7 964	-8 119	-8 050	-7 742	-8 500	-8 627	-8 462	-8 200	-8 216	-7 596	-7 627	-7 865	-8 440	-8 274	-8 508	-9 482	-8 693	Transformation sector
Power generation	-9 535	-7 957	-7 805	-7 945	-8 068	-8 307	-8 392	-7 680	-7 902	-8 066	-7 992	-7 518	-8 2 6 6	-8 373	-8 193	-7 930	-7 945	-7 3 1 9	-7 316	-7 473	-7 728	-7 377	-7 591	-8 218	-7 534	Power generation
_			4 197			4 522		4 178		4 181					4 634				4 475	4 776			4 404			_
Final energy consumption	5 108 1 277	4 333 1 050	4 19 / 1 082	4 196 1 107	4 242 1 121	4 522 1 151	4 554 1 159	4 1 / 8 1 188	4 290 1 253	4 181 1 045	4 305 1 164	4 05 6 1 16 6	4 3 6 9 1 3 2 5	4 654 1 426	4 634 1 519	4 535 1 538	4 269 1 400	4 299 1 253	4 4 / 5 1 298	4 //6 1 336	5 353 1 397	5 2 9 0 1 4 8 0	4 404 1 388	4 918 1 493	4 509 1 369	Final energy consumptio
Industry Transport	1 426	1 230	1 128	1134	1 185	1 305	1 434	1 387	1 374	1 434	1 452	1 138	1 351	1 423	1 266	1 284	1 165	1 183	1 237	1 275	1 289	1 130	964	1 020	935	Industry Transport
Residential	1 973	1 811	1 805	1 803	1 766	1 905	1 789	1 437	1 491	1 462	1 503	1 571	1 524	1 642	1 689	1 552	1 553	1 681	1 744	1 936	2 43 5	2 407	1 735	1 972	1 808	
Commerce & public services	368	182	103	99	97	105	114	19	17	6.9	16	48	46	39	49	49	49	55	62	97	100	17	42	132	121	C ommerce & public se
Others	64	60	79	53	72	56	59	147	155	232	170	133	123	125	110	112	101	127	134	132	132	255	276	301	276	
ctricity																										E lectricity
Power generation	3 042	3 015	3 155	3 202	3 202	3 292	3 348	3 434	3 588	3 658	3 750	3 572	3 7 3 7	3 798	3 850	3 815	3 833	3 844	3 928	3 942	4 017	4 040	3 926	4 177	4 214	Power generation
Thermal	2 019	2 019	2 085	2 072	2 097	2 182	2 186	2 263	2 3 8 9	2 433	2 557	2 347	2 5 1 5	2 580	2 615	2 533	2 547	2 5 2 4	2 545	2 530	2 578	2 5 7 0	2 360	2 573	2 658	Thermal
Hydro	597 426	631 358	591 471	626 493	584 510	561 541	633 521	632 537	635 562	649 575	605 586	637 588	610 612	597 621	597 638	663 620	637 649	617 702	677 707	678 730	699 735	712 751	776 776	783 800	722 804	Hydro
	0.2	5.8	4/1 9.4	493 11	510 11	541 7.7	521 8.0	1.5	1.7	1.7	1.7	σδο	012	021	038	620	049	/ 02	/0/	/30 4.1	735 5.0	751 7.4	13	800 21	31	Nudear Others
Nuclear Others		5,0																							31	Cunto
Others	1																									
Others Final energy consumption	2 976	2 226	2 191	2 2 2 2 5	2 226	2 276	2 324	2 660	2 772	2 873	2 915	2 816	2 9 5 3	3 013	3 072	3 043	3 054	3 028	3 079	3 141	3 211	3 2 2 4	3 170	3 345	3 408	
Others Final energy consumption Industry	2 976 1 734	1 130	1 125	1 1 5 8	1 151	1 182	1 203	1 267	1 3 5 3	1 406	1 401	1 223	1 281	1 305	1 328	1 305	1 274	1 242	1 264	1 309	1 297	1 3 0 4	1 286	1 335	1 340	Industry
Others Final energy consumption Industry Transport	2 976 1 734 374	1 130 235	1 125 219	1 158 224	1 151 244	1 182 271	1 203 289	1 267 299	1 3 5 3 3 0 9	1 406 312	1 401 312	1 223 302	1 281 318	1 305 325	1 328 328	1 305 325	1 274 325	1 242 318	1 264 319	1 309 312	1 297 324	1 3 0 4 3 2 3	1 286 307	1 335 325	1 340 339	Industry Transport
Others Final energy consumption Industry	2 976 1 734	1 130	1 125	1 1 5 8	1 151	1 182	1 203	1 267	1 3 5 3	1 406	1 401	1 223	1 281	1 305	1 328	1 305	1 274	1 242	1 264	1 309	1 297	1 3 0 4	1 286	1 335	1 340	

APEC Energy Statistics 2022

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	2022	
Population (million) *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	144.24	Population (million) *1
Gross domestic product "3																										Gross domestic product ¹³
Real term, billion USD (constant 2015)	1 1 6 1	721	780	820	859	921	988	1 051	1 137	1 2 3 4	1 2 9 8	1 197	1 251	1 304	1 3 5 7	1 381	1 391	1 363	1 366	1 3 9 1	1 430	1 462	1 423	1 503	1 472	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	3 179	1 9 7 5	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 8 0 7	3 914	4 000	3 894	4 1 1 2	5 614	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	517	396	260	307	345	430	591	764	990	1 3 0 0	1 661	1 223	1 525	2 046	2 2 0 8	2 2 9 2	2 059	1 363	1 277	1 574	1 657	1 693	1 493	1 837	2 266	Nominal, billion USD (current)
GDP per capita ³																										GDP per capita 3
Real term (constant 2015 USD)	7 849	4 8 6 3	5 324	5 619	5 910	6 370	6 857	7 323	7 9 5 0	8 640	9 094	8 382	8 755	9 124	9 4 7 6	9 622	9 671	9 462	9 464	9 627	9 899	10 121	9 875	10 475	10 202	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	38 921	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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	Nominal (current USD)
Nominal GDP & its components (billion of current RUB) 11																										Nominal GDP & its components (billion of current RUB) 11
Gross domestic product	0.6	1 429	7 306	8 944	10 831	13 208	17 027	21 610	26 917	33 248	41 277	38 807	46 309	60 114	68 103	72 986	79 030	83 087	85 616	91 843	103 862	109 608	107 658	135 295	155 189	Gross domestic product
Household final consumption expenditure	N.A.	744	3 374	4 417	5 542	6 692	8 588	10 792	13 129	16 2 18	20 184	21 203	23 843	30 288	35 037	38 803	42 489	43 770	45 589	48 559	52 311	56 557	55 439	66 597	75 359	Household 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 3 6 0	8 067	8 671	10 595	12 236	13 630	14 247	14 761	15 810	16 731	18 394	19 841	21 500	23 446	26 657	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 2 0 1	8 536	10 014	12 817	14 684	16 013	16 926	17 126	18 734	20 189	21 452	22 911	23 211	26 623	31 661	Gross fixed capital formation
Stock change	N.A.	62	134	274	230	323	428	502	718	1 054	1 3 2 5	-1 191	458	1 767	2 038	972	770	1 277	1 040	1 492	1 312	1 928	2 041	4 772	2 410	Stock change
Exports of goods and services	N.A.	418	3 219	3 300	3 814	4 656	5 860	7 607	9 0 7 9	10 029	12 924	10 842	13 529	16 865	18 325	18 863	21 426	23 849	22 136	23 963	31 982	31 165	27 477	40 446	43 493	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 6 5 3	7 1 6 2	9 1 1 1	7 954	9 790	12 011	13 787	14 920	16 352	17 163	17 69 1	19 090	21 590	22 793	22 010	27956	23 640	Imports of goods and services
Real GDP & its components (billion of 2019 RUB) 1																										Real GDP & its components (billion of 2019 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	92 223	Gross Domestic Product
Household final consumption expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	NΔ	NA.	NΔ	NΔ	N.Δ.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	Household 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 5 7 0	16 5 7 9	16 168	15 584	15 810	16210	16 417	16 806	17 133	17 630	18 126	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	21 537	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	455	Stock change
Exports of goods and services	13 116	8 3 9 9	10 743	11 195	12 348	13 903	15 544	16 554	17 763	18 882	18 995	18 102	19 370	19 428	19 692	20 590	20 696	21 456	22 136	23 245	24 537	24 716	23 685	24 462	21 065	Exports of goods and services
Imports of goods and services	14755	5 998	5 479	6 503	7 452	8 742	10 778	12 568	15 245	19 239	22 086	15 372	19 338	23 263	25 516	26 419	24 500	18 366	17 691	20 755	21 306	21 973	19 362	23 063	19 606	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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	4.0	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	29.5	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.A	57.4	57.0	57.0	57.0	57.2	57.5	58.2	58.1	Services, etc.
Industrial production index (2010=100) ²	N.A.	67.5	69.2	712	73.5	80.5	86.9	91.4	97.2	103.8	104.4	93.2	100.0	105.0	108.5	110.5	113.2	119.1	121.2	125.7	130.1	134.5	131.7	138.7	N.A.	·
External trade (billions of current USD)																										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.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	N.A.	Exports, f. o.b.
Imports, c.i.f.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	NA.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	NA.	NA.	N.A.	N.A.	NA.	NA.	N.A.	Imports, c.i.f.
Balance of payments (billion of current USD) *2	1404		142 (1				140 0						140 (1								140					Balance of payments (billion of current USD) *2
Trade balance	N.A.	20.3	57.1	452	43.6	55.8	83.6	116.2	134.3	123 <i>A</i>	177.6	113.2	147.0	196.9	191.7	180.6	188.9	148.4	90.2	114.6	195.1	165.8	93.4	190.3	315.6	Trade balance
Current account	N.A.	7.A	45.4	32.1	27.5	33.1	58.6	84.4	92.3	72.2	103.9	50.4	67.5	97.3	71.3	33.4	57.5	67.8	24.5	32.2	115.7	65.6	35.4	122.1	237.7	Current account
Overall balance	N.A.	20.7	27.0	202	17.8	35.7	52.4	70.0	96.2	158.7	-35.8	9.8	45.9	21.3	40.4	-13.2	-115.5	-1.2	13.6	20.0	36.1	68.4	-17.6	122.1	N.A.	Overall balance
Foreign exchange rate (RUR/USD) "	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	N.A.	Foreign exchange rate (RUR/USD) "
	0.00	1.72	7.30	8.32	927	9.87	11.56	12.74	12.62	13.98	14.34	14.02	15.82	18.44	19.57	19.51	21.00	23.56	24.19	24.12	24.54	24.84	24.49	27.25	25.83	
PPP conversion factor, GDP (RUR/USD)	0.00	1.72	7.30	0.32	921	9.01	11.30	12./4	12.02	13,90	14.34	14.02	13.62	1044	19.37	19.31	21.00	23.30	24.19	24.12	24.34	24.04	2449	21.23	23.03	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	168.3	GDP Deflator (2016=100) ³
Producer Price Index (2010=100)	N.A.	6.3	27.1	32.3	35.6	41.5	51.1	61.7	69.3	79.1	96.0	89.1	100.0	117.7	125.2	129.6	137.6	156.6	163.4	175.6	197.2	201.1	193.6	241.0	270.1	Producer Price Index (2010=100) 2
Consumer Price Index (2010=100) ²	N.A.	6.3	30.8	37.4	43.3	49.2	54.5	61.4	67.4	73.5	83.8	93.6	100.0	108.4	113.9	121.6	131.2	151.5	162.2	168.2	173.0	180.8	186.9	199.4	N.A.	Consumer Price Index (2010=100) ²
Growth rate (%) "3																										Growth rate (%) "3
Real GDP ¹³	-3.0	-4.1	10.0	5.1	4.7	7.3	7.2	6.4	8.2	8.5	5.2	-7.8	4.5	4.3	4.0	1.8	0.7	-2.0	0.2	1.8	2.8	2.2	-2.7	5.6	-2.1	Real GDP *3
Population ^{'3}	0.2	-0.1	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.3	-0.2	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	-0.2	-0.4	-0.4	Population '3
Price ²		_																								Price ²
Producer prices	N.A.	236.5	46.5	19.2	10.4	16.4	23.4	20.6	12.4	14.1	21.4	-7.2	12.2	17.7	6.4	3.6	6.1	13.8	4.3	7.5	12.3	2.0	-3.8	24.5	12.1	Producer prices
Consumer prices	N.A.	197 <i>A</i>	20.8	21.5	15.8	13.7	10.9	12.7	9.7	9.0	14.1	11.6	6.8	8.4	5.1	6.8	7.8	15.5	7.0	3.7	2.9	4.5	3.4	6.7	N.A.	Consumer prices

Source

*1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

e : N.A. means "not available"

: 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)

Energy prices in Russia

WHOLESALE PRICES 1

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

¹⁾ The purchase price by industrial organizations, at the end of the period, rubles.

CONSUMER PRICES 1

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

¹⁾ At the end of the period, rubles.

²⁾ Propane and butane are liquefied.

³⁾ Lubricating oils.

⁴⁾ Road oil bitumen.

²⁾ Coal.

³⁾ Gasoil Al-95 and higher.

⁴⁾ In apartments without electric stoves.

⁵⁾ In apartments with electric stoves.

Singapore

Energy balance table of Singapore

2022

2022												Petajoules	5										
							Petrole	um products				,						0.1					
	Coal	Coal products		rude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production									-							3.6		13	13	3	29	16	Production
Import	17		0.1	2 081	3 539	677	19	376	1 860	17	589	441						3.5			6 082	3.5	lm port
Export				- 41	-3 001	-1 189	- 144	- 706	- 577	-3.7	- 380										-3 042		Export
International marine bunkers					-1 937			- 163	-1775												-1 937		International marine bunkers
International aviation bunkers					- 300		- 300														- 300		International aviation bunkers
Stock changes				- 14	- 23	- 15		1.1	-8.3			-0.6									- 37		Stock changes
Total primary energy supply	17	'		2 026	-1 722	- 527	- 426	- 492	- 499	13	209	441				3.6		16	13	3	794	20	7 37 117
Transfers																							Transfers
Total transformation sector	-9.3			-1 800	1 734	299	415	420	122	32	446	- 366				-3.6		- 16			- 268		Total transformation sector
Main activity producers	-9.3				-9.8			-0.5	-9.3			- 321				-3.6		- 16	- 13		- 183		
Autoproducers					-3.2				-3.1			- 45								16	- 32		Autoproducers
Gas processing																							Gas processing
Petroleum refineries				-1 800	1 747	299	415	420	135	32	446										- 53		Petroleum refineries
Coal transformation																							Coal transformation
Other transformation																							Other transformation
Losses & own use				000	- 125	000	44	400	200	20	- 125	-0.5								-8.9			Losses & own use
Discrepancy			٠.,	- 226	526	268	11	136	390	- 39	- 241	-8.3								0.9			Discrepancy
Total final consumption	8.0		0.1		413	40	0.1	64		6.3	290	66								198			Total final consumption
Total final energy consumption	8.0		0.1 0.1		130	40	0.1	64	13	6.3	6.1	66								198 82			Total final energy consumption
Industry sector	8.0		0.1		29			8.0	13	2.0	6.1	59								02	179		Industry sector
Mining and quarrying												0.2								1.8	2.0		Mining and quarrying
Construction Iron and steel												0.2								1.0	2.0		Construction Iron and steel
Chemical & petrochemical					7.4				7.4												7.4		Chemical & petrochemical
Non-ferrous metals					1.4				1.4												1.4		Non-ferrous metals
Non-metallic minerals																							Non-metallic minerals
Transportation equipment																							Transportation equipment
Machinery																							Machinery
Food, beverages and tobacco																							Food, beverages and tobacco
Pulp, paper and printing																							Pulp, paper and printing
Wood and wood products																							Wood and wood products
Textiles and leather																							Textiles and leather
Non-specified industry	8.0		0.1		22			8.0	5.9	2.0	6.1	59								80	169		Non-specified industry
Transport sector					96	40	0.1	56		•••••		0.1								10			Transport sector
Domestic air transport					0.1		0.1														0.1		Domestic air transport
Road					91	40		50				0.1								0.9	92		Road
Rail																				9.5	9.5		Rail
Inland waterways					5.2			5.2													5.2		Inland waterways
Non-specified transport																							Non-specified transport
Other sector					4.3					4.3		6.5								105	116		Other sector
Residential					1.1					1.1		2.8								28	32		Residential
Commerce and public services					3.2					3.2		3.8								76	83		Commerce and public services
Agriculture																							Agriculture
Fishery																							Fishery
Non-specified																				0.7			Non-specified
Non-energy					284						284										284		Non-energy
											Elect	ricity and heat	t output										
Electricity generated (GWh)	596				1 407							52 242				996		1 088			57 112		
Electricity plants	596				1 407							52 242				996		1 088	783	3	57 112	2 084	
CHP plants																							CHP plants
Heat generated (PJ)																							Heat generated (PJ)
Heat plants																							Heat plants
CHP plants																							CHP plants

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

Energy balance table of Singapore

2021

											Petajoule	s										
		0.1	0 1 3			Petrole	eum products										04		FI		Ŧ.,,	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production											-			'	2.7		11	11		25	14	Production
Import	19	0.1	2 014	3 775	663	41	449	2 149	4.4	468	445						3.4			6 256	3.4	Import
Export			- 52	-3 120	-1 006	- 123	- 794	- 687	-8.0	- 503										-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	70	13		42	14			0.7									89	1	Stock changes
Total primary energy supply	19	0.1	1 980	-1 156	- 330	- 171		- 138	-3.6	- 35	446				2.7		14	11		1 317	÷	
Transfers																						Transfers
Total transformation sector	- 11		-1 831	1 788	290	412	379	166	31	510	- 373				-2.7		- 14	- 11	201	- 253	- 17	Total transformation sector
Main activity producers	- 11			-2.7			-0.2	-2.6	-		- 327				-2.7		- 14					
Autoproducers				-5.4			0.2	-3.2		-2.1	- 46				2.1		14		17	- 35	:	Autoproducers
Gas processing				-3.4				-5.2		-2.1	- 40								17	- 50	'	Gas processing
Petroleum refineries			-1 831	1 796	290	412	379	172	31	512										- 34		Petroleum refineries
Coal transformation			-1031	1 /30	230	412	313	1/2	31	312										- 34	•	Coal transformation
Other transformation																						Other transformation Other transformation
				440						440	0.4								40	400		
Losses & own use			440	- 119	00	040	407	47	00	- 119	-0.4								- 10	:		Losses & own use
Discrepancy	-1.1		- 149	- 136	83				- 22	- 106	-3.8								2.1		:	Discrepancy
Total final consumption	7.6			376	43			11	5.9	249	68								193		:	Total final consumption
Total final energy consumption	7.6			132	43	0.1		11	5.9	4.8	68								193		:	Total final energy consumption
Industry sector	7.6	0.1		25			6.6	11	1.7	4.8	62								80	174		Industry sector
Mining and quarrying																						Mining and quarrying
Construction											0.2								1.8	2.0)	Construction
Iron and steel																						Iron and steel
Chemical & petrochemical				6.3				6.3												6.3		Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals																						Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery																						Machinery
Food, beverages and tobacco																						Food, beverages and tobacco
Pulp, paper and printing																						Pulp, paper and printing
Wood and wood products																						Wood and wood products
Textiles and leather																						Textiles and leather
Non-specified industry	7.6	0.1		18			6.6	5.1	1.7	4.8	61								78	166		Non-specified industry
Transport sector	7.0	0.1		103	43	0.1		5.1	1.7	7.0	0.1								10	ò	÷	Transport sector
Domestic air transport				0.1	45	0.1	00				0.1								10	0.1		Domestic air transport
Road				98	43	0.1	55				0.1								0.7	99		Road
Rail				90	43		33				0.1								9.5			Rail
							5.0												9.5			
Inland waterways				5.2			5.2													5.2		Inland waterways
Non-specified transport																						Non-specified transport
Other sector				4.2					4.2		6.6								102			Other sector
Residential				1.1					1.1		3.0								30			Residential
Commerce and public services				3.1					3.1		3.5								71	78		Commerce and public services
Agriculture																						Agriculture
Fishery																						Fishery
Non-specified																			0.8			Non-specified
Non-energy				244						244										244		Non-energy
										Elect	tricity and hea											
Electricity generated (GWh)	693			440							52 377				760		907			55 788		
Electricity plants	693			440							52 377				760		907	610)	55 788	1 668	Electricity plants
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
Heat plants CHP plants																						Heat plants CHP plants

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

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Major energy indicators of Singapore

	1990	1005	20.00	2004	2002	2002	2004	20.05	2006	2007	200.9		etajoules	2014	2042	2012	2011	2015	2046	2047	2049	2040	2020	2024	2022	
otal	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Primary energy supply	483	789	782	892	886	1 071	1 286	1 014	1 027	853	827	854	795	830	1 061	1 080	1 117	1 171	1 134	1 279	1 191	1 091	1 261	1 317	794	Primary energy supply
P ro duction	2.9	8.5	8.5	16	16	17	17	16	16	17	18	18	25	25	25	27	27	26	28	27	26	27	25	25	29	Production
Import	2 571	3 387	3 455	3 5 9 9	3 717	4 060	4 692	4 794	5 098	5 298	5 799	6 114	6 4 6 3	6 706	6 601	6 704	6 817	7 258	7 406	7 953	7 343	6 8 9 8	6 345	6 256	6 082	Import
Export	-1 544	-2 030	-1 746	-1 738	-1 879	-2 030	-2 248	-2 665	-2 803	-3 037	-3 350	-3 512	-3 707	-3 919	-3 547	-3 572	-3 696	-3 852	-4 159	-4 295	-3 834	-3 664	-3 202	-3 173	-3 042	Export
inal energy consumption	130	160	234	240	249	262	274	299	309	324	332	312	338	340	346	359	365	386	390	406	382	389	379	400	401	Final energy consumption
Industry	25 57	31 79	91 73	93 75	99 74	113 75	122 76	137	143 85	150 88	154 90	126 98	146	140 108	147 105	163	166 102	166 119	165 122	188 114	164 114	168	170 102	174	179 106	Industry
Transport Residential	12	15	26	27	27	28	27	82 25	25	25	25	26	101 27	27	27	99 28	28	30	31	30	30	112 31	34	113 34	32	Transport Residential
C ommerce & public services	34	33	40	42	46	45	46	50	54	59	61	60	63	64	66	68	68	70	71	72	74	76	73	78	83	C ommerce & public ser
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	8.0	0.7	Others
aland peat																										C oal and peat
Primary energy supply							0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	1.0	11	16	17	18	38	20	19	18	19	17	P rimary energy supply
P ro ductio n							0.2	0.3	0.2	0.3	0.2	0.1	0.3	0.3	10	11	47	17	18	30	20	10	10	10	47	Production
Import Export							0.2	0.3	0.2	0.3	0.2	0.1	0.3	0.3	1.0	-0.1	17 -0.3	17	10	38	20	19	18	19	17	Import Export
-																			40	40	4.0	40	40			
ransformation sector														-0.1 -0.1	-5.6 -5.6	-9.5 -9.5	- 10 - 10	- 11 - 11	- 12 - 12	- 12 - 12	- 12 - 12	- 10 - 10	- 12 - 12	- 11 - 11	-9.3 -9.3	Transformation sector
Powergeneration																									-5.5	Power generation
inal energy consumption								0.3 0.3	0.2 0.2	0.2 0.2	0.2 0.2	0.1 0.1	0.2 0.2	0.2 0.2	1.0 1.0	5.4 5.4	6.8 6.8	6.8 6.8	7.2 7.2	25 25	7.6 7.6	7.A 7.A	7.6 7.6	7.6 7.6	8.0	Final energy consumption
Industry Transport								0.5	0.2	0.2	0.2	0.1	02	02	1.0	34	0.0	0.0	12	23	7.0	/ ~	7.0	7.0	0.0	Industry Transport
Residential																										Residential
Commerce & public services																										Commerce & public se
Others																										Others
and peat products																										C oal and peat products
imary energy supply	0.9	0.5			0.3	0.4	0.3														0.1	0.2		0.1		Primary energy supply
P ro duction Import	1.5	1.0			0.3	0.4	0.3														0.1	0.2		0.1	0.1	Production Import
E xport	-0.6	-0.5			0.5	0.7	0.5														0.1	0.2		3.1	0.7	E xport
ransformation sector																										Transformation sector
Power generation																										Power generation
	0.9	0.5			0.3	0.4	0.3														0.1	0.2		0.1	0.1	_
inal energy consumption Industry	0.9	0.5			0.3	0.4	0.3														0.1	0.2		0.1	0.1	Final energy consumption Industry
Transport	-	-			-	-	-														• • • • • • • • • • • • • • • • • • • •			•	•	Transport
Residential																										Residential
C ommerce & public services																										Commerce & public se
Others																										Others
de oil & NGL	1 745	2 199	1 786	1 743	1 736	1 992	2 363	2 483	2 403	2 336	2 293	1 99 6	1 890	1 947	2 148	1 977	1 937	2 045	2 198	2 380	2 358	2 231	1 024	1 980	2 026	C rude oil & NGL
rimary energy supply Production	1 /43	2 199	1 /00	1 / 43	1 /30	1 992	2 303	2 403	2 405	2 330	2 293	1 990	1 090	1 947	2 140	19//	1957	2 045	2 190	2 300	2 330	2231	1 934	1 900	2 026	Primary energy supply Production
Import	1 823	2 199	1 786	1 743	1 736	1 992	2 363	2 520	2 440	2 371	2 329	2 05 5	1 929	1 971	2 185	2 041	2 058	2 094	2 236	2 452	2 394	2 278	1 970	2 014	2 081	Import
Export	-0.8	-0.3		-0.3				-37	- 37	- 35	- 36	- 39	- 36	- 37	- 40	- 49	- 114	- 48	- 44	- 53	- 44	- 40	- 40	- 52	- 41	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	-1 800	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	-1 800	P etroleum refineries
troleum products																										P etroleum products
rimary energy supply	-1 266	-1 472	-1 060	- 942	- 988	-1 123	-1 314	-1 719	-1 644	-1 770	-1 760	-1 440	-1 423	-1 447	-1 444	-1 308	-1 256	-1 318	-1 520	-1 578	-1 634	-1 614	-1 148	-1 156	-1 722	P rimary energy supply
Import	747	1 133	1 622	1 781	1 860	1 883	2 108	2 040	2 406	2 657	3 194	3 780	4 2 3 2	4 429	4 084	4 278	4 346	4 7 4 9	4 744	5 048	4 509	4 173	3 926	3 775	3 539	Import
Export	-1 543	-2 030	-1 746	-1 738	-1 879	-2 030	-2 248	-2 628	-2 765	-3 002	-3 314	-3 473	-3 671	-3 881	-3 507	-3 522	-3 582	-3 805	-4 115	-4 242	-3 790	-3 624	-3 162	-3 120	-3 001	Export
ransformation sector	1 545	1 790	1 466	1 3 7 4	1 455	1 832	2 205	2 379	2 3 5 0	2 433	2 416	1 826	2 027	2 155	2 216	2 105	1 93 1	2 0 1 8	2 094	2 208	2 203	2 081	1 730	1 788	1 734	Transformation sector
Power generation	- 185 1 733	- 228 2 021	- 276 1 747	- 249 1 628	- 203	- 133 1 971	- 106 2 316	- 102 2 481	-101 2 451	- 85 2 517	- 76 2 492	- 74 1 900	- 93 2 120	- 93 2 249	- 68 2 284	- 30 2 135	-10 1941	-8.4 2 026	-5.1 2 099	-7.2 2 215	-4.2 2 207	-3.6 2 085	-3.9 1 734	-8.1 1 796	- 13 1 747	Power generation
Petro leum refineries					1 663																				- 1	P etroleum refineries
inal energy consumption	79	90	131	135	139	141	145	150	155	163	167	136	139	136	139	137	135	152	151	142	130	133	120	132	130	Final energy consumption
Industry Transport	4.6 56	5.5 78	53 72	56 74	59 73	62 74	65 75	68 77	71 81	74 83	77 85	40 92	41 93	33 99	39 96	42 90	38 93	38 110	35 112	33 104	24 103	27 101	25 92	25 103	29	Industry
Transport Residential	1.8	70	3.9	3.6	2.4	2.2	1.9	1.6	1.5	1.3	1.3	1.1	0.9	1.0	1.0	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	Transport Residential
C ommerce & public services	17	6.8	1.9	2.1	4.4	3.5	3.8	2.6	2.5	4.0	3.9	3.3	3.5	2.9	2.9	3.7	3.3	3.3	3.2	3.1	3.1	2.9	2.9	3.1	3.2	Commerce & public se
Others																										Others
s																										Gas
Primary energy supply		53	47	74	121	184	220	233	252	269	276	279	302	305	331	372	391	398	407	410	418	425	429	446	441	P rimary energy supply
P ro ductio n		53	47	74	121	184	220	233	252	269	276	279	302	305	331	372	394	396	405	413	417	425	427	445	441	Production
Import Export		,,,	71	17	121	104	220	233	232	203	210	213	302	303	331	312	334	330	403	413	717	723	721	773	771	Import Export
	2.0	40	42	70	115	174	202	100	212	227	225	220	250	257	202	240	220	2.42	250	252	35.4	364	200	277	366	
Transformation sector	2.6	- 49 - 53	- 42 - 47	- 70 - 74	- 116 - 121	- 171 - 176	- 202 - 207	- 199 - 199	-212 -212	- 227 - 227	- 235 - 235	- 239 - 239	- 250 - 250	- 257 - 257	- 282 - 282	- 318 - 318	- 338 - 338	- 342 - 342	- 350 - 350	- 352 - 352	- 354 - 354	- 364 - 364	- 360 - 360	- 373 - 373	- 366 - 366	Transformation sector
Power generation																									- 300	Power generation
Final energy consumption	2.6	3.4	4.4	4.5	4.5	13	18 13	21 17	21 17	23 19	25	36	47 40	50	47 40	55 48	57	56	57 50	60	62	62	69	68 62	66	Final energy consumption
Industry Transport						8.5	13	17	17	19	19 0.4	30 0.6	0.9	42 1.1	0.8	0.8	50 0.7	49 0.6	0.5	53 0.3	55 0.1	55 0.1	62 0.1	0.1	0.1	Industry Transport
Transport Residential	1.3	1.7	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	2.6	3.2	3.0	2.8	Residential
C ommerce & public services									2.0	2.3	2.7	3.4	3.6	3.8	3.8	4.1	3.7	3.8	3.9	3.8	3.7	3.7	3.4	3.5	3.8	C ommerce & public se
Others	1.4	1.8	2.7	2.9	2.7	2.5	2.5	2.6										0.1	0.1	0.1	0.2	0.1	0.1			Others
dricity																										E lectricity
Power generation	57	80	114	119	125	127	133	138	142	148	150	150	163	166	169	173	178	181	186	188	190	195	191	201	206	Power generation
Thermal	56	78	112	116	121	124	129	134	139	145	146	147	159	161	164	167	172	175	180	182	184	188	184	193	195	Thermal
Hydro Nuclear																										Hydro Nudear
Nuclear Others	0.6	1.8	1.8	3.4	3.4	3.6	3.4	3.4	3.4	3.5	3.8	3.8	4.2	4.4	4.5	5.2	5.5	5.9	6.0	6.1	6.3	6.9	6.8	8.2	10	Nudear Others
	47																								100	
inal energy consumption Industry	20	66 25	98 38	100 38	106 39	108 42	111 43	128 52	132 54	138 57	140 58	140 56	152 64	155 65	159 67	162 68	167 71	171 72	175 74	179 76	182 77	186 77	183 76	193 80	198 82	Final energy consumption Industry
Transport	0.7	0.7	1.0	1.1	1.2	1.1	1.2	4.3	4.5	4.7	5.0	5.8	7.6	8.0	8.4	8.5	8.8	8.8	10	10	11	11	10	10	10	Transport
Residential	8.6	14	21	22	23	23	23	22	22	22	22	23	24	23	24	24	25	26	27	26	26	28	30	30	28	Residential
C ommerce & public services	18	26	38	40	42	41	43	47	50	52	54	53	56	57	59	60	61	63	64	65	67	70	67	71	76	Commerce & public se
Others	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.2	2.0	1.8	1.6	1.5	1.4	1.2	1.1	0.9	0.9	1.0	1.0	1.0	0.9	0.9	8.0	8.0	0.7	Others

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	2022	
Population (million) ¹¹	3.05	3.52	4.03	4.14	4.18	4.11	4.17	427	4.40	4.59	4.84	4.99	5.08	5.18	5.31	5.40	5.47	5.54	5.61	5.61	5.64	5.70	5.69	5.45	5.64	Population (million) *1
Gross domestic product 3																										Gross domestic product ¹³
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	383	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	747	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	498	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 1 59	46 179	44 602	43 332	48 752	50 714	51 679	53 299	54 682	55 646	56 907	59 440	61 277	61 386	59 176	67 176	67 949	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	132 469	GDP, PPP (constant 2017 USD)
Nominal (current USD)	11 862	24 9 1 5	23 853	21 700	22 160	23 730	27 608	29 961	33 768	39 433	40 009	38 927	47 237	53 891	55 548	56 967	57 565	55 646	56 896	61 165	66 837	66 070	61 274	77 710	88 429	Nominal (current USD)
Nominal GDP & its components (billion of current SGD) *1																										Nominal GDP & its components (billion of current SGD)
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	687	Gross domestic product
Household 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	194	Household 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	65	General government final consumption expenditure
Gross fixed capital formation	22	Δ1	5.4	50	44	42	47	49	55	66	77	81	84	89	97	106	112	115	115	120	114	117	100	122	142	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	11	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	1 277	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	1 012	Imports of goods and services
Real GDP & its components (billion of 2019 SGD) ¹¹																										Real GDP & its components (billion of 2019 SGD) *1
	97	147	193	191	199	208	228	245	267	291	297	297	340	361	377	396	411	423	439	459	475	481	463	504	527	
Gross Domestic Product	45	63	87	94	97	98		107										157	162	167	174					Gross Domestic Product
Household final consumption expenditure	9.4		22	23	24	98 25	103 25	26	112 28	120 28	125 30	125 32	130 35	135 35	140 35	144 39	150 40	43	45	46	174 48	179 49	156 56	166 58	182 57	Household final consumption expenditure
General government final consumption expenditure	25	13 43	60	23 57	52	49	54	56	20 61	20 71	79	83	88	94	102	108	113	115	116	122	116	118	101	119	129	General government final consumption expenditure
Gross fixed capital formation	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	42	8.9	0.8	4.4	-7.9	1.7	8.5	10.0	7.8	7.6	7.6	8.7	Gross fixed capital formation
Stock change	98	192	273	263	282	321	383	432	480	521	548	509	599	645	654	694	720	755	755	812	876	878	882	985	988	Stock change
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	832	Exports of goods and services Imports of goods and services
	03	174	230	233	232	211	340	3/3	410	443	430	440	321	331	303	002	013	040	041	033	/	144	133	024	032	
Sectoral shares of Real GDP (%)	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	0.0	Sectoral shares of Real GDP (%)
Agriculture, Fishery and Forestry	0.2	26.8	27.5	25.3	25.6	24.8	25.1	25.3	25.8		24.7	24.8	26.9	27.0	26.4		25.7	24.3	24.1	24.6	25.1	24.5	25.4	26.5	26.5	Agriculture, Fishery and Forestry
Industry	26.2 64.9	64.7	64.4	67.3	67.2	68.1	67.8	67.6	67.0	25.4 67.1	68.8	68.7	66.8	67.1	67.7	25.7 68.9	69.1	70.0	69.6	69.0	68.8	69.4	69.1	68.0	68.5	Industry
Services, etc.	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	161.8	Services, etc.
Industrial production index (2010=100) 2	214	40.7	37.0	30.0	33.1	30.0	04.7	70.0	13.3	04.0	00.3	77.1	100.0	107.0	100-2	1100	112.3	107.1	111.1	122.0	1313	129,4	133.1	137.0	0.101	Industrial production index (2010=100) 2
External trade (billions of current USD)																										External trade (billions of current USD)
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 <i>A</i>	351.6	330.5	373.4	413.0	390.8	362.5	457.A	515.8	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	475.6	Imports, c.i.f.
Balance of payments (billion of current USD) 2																										Balance of payments (billion 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 A	47.9	63.2	75.6	75.0	78.8	86.7	92.6	89.9	100.9	104.4	97.8	106.4	125.7	136.5	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	90.2	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	-112.4	Overall balance
Foreign exchange rate (SGD/USD)	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	1.38	Foreign exchange rate (SGD/USD) "
PPP conversion factor, GDP (SGD/USD) [™]	0.97	1.01	0.94	0.90	88.0	0.85	0.86	0.85	0.84	0.86	0.84	0.86	0.85	0.85	0.85	0.86	0.86	88.0	0.88	0.89	0.90	0.88	0.84	0.88	0.86	PPP conversion factor, GDP (SGD/USD) "
Price Indices																										Price Indices
GDP Deflator (2015=100) ^{'3}	72.3	84.5	85.7	842	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 <i>A</i>	107.0	106.8	103.9	113.0	130.5	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	111.1	Wholesale Price Index (2010=100) ²
Consumer Price Index (2010=100) 2	71.8	81.5	852	86.0	85.7	86.1	87.6	88.0	88.8	90.7	96.7	97.3	100.0	105.2	110.1	112.7	113.8	113.2	112.6	113.3	113.8	114.4	114.2	116.8	124.0	Consumer Price Index (2010=100) ¹²
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	3.8	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	3.4	Population
Price																										Price
Wholesale prices	1.7	0.0	10.1	-1.7	-32	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.	18.6	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	6.1	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

Note

: 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	2022
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	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	21.92
Compressed natural gas														
Electricity														
Industrial														
Commercial														$\vdash \vdash \vdash$
Residential	SGD cents/kWh	23.48	26.00	27.95	26.25	25.59	21.73	18.90	20.65	22.87	23.56	22.07	22.70	28.32
Others		251-10	20,00	27,30	20,23	20103	21173	70,50	20,00		25,50			20,02

Chinese Taipei

Energy balance table of Chinese Taipei

2022

											Petajoules											
						Petrole	eum products										Oil				-	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear G	eothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production			0.1								3.2	21	259	0.9	38	13	35	29		400	108	Production
Import	1 562	6.1		514	6.7	3.1	1.7	35	39	429	1 007									4 881		Import
Export		-1.5	- 29	- 669	- 142	- 37	- 357	- 65		- 67										- 700		Export
International marine bunkers				- 59			-5.7	- 53												- 59		International marine bunkers
International aviation bunkers				- 76		- 76														- 76		International aviation bunkers
Stock changes	- 19			2.6	-0.1	1.8		-1.4	-0.1	-2.1	-2.3									- 12		Stock changes
Total primary energy supply	1 543	5.5		- 287	- 136	- 108	- 357	- 85	38	360	1 008	21	259	0.9	38	13	35	29		4 435	108	7 97 117
Transfers	4.070	400	26	- 12	85	-0.5		- 13	-1.7	- 79	700		050			40			4 407	13		Transfers
Total transformation sector	-1370	122	-1 799	1 839	363	141		111	48	621	- 796	- 21	- 259	-0.9	- 38	- 13		- 22		-1 256	- 97	Total transformation sector
Main activity producers	- 833			- 37			-2.5	- 35			- 787	- 21	- 259	-0.8	-8.2	- 13		-2.1		- 982	- 43	Main activity producers
Autoproducers	- 266	- 33		-9.7			-0.1	-2.9	-0.2	-6.5	-6.8			-0.1	- 30		- 24	- 20	148	- 242	- 54	Autoproducers
Gas processing			4 700	4.000	202	444	550	440	40											07		Gas processing
Petroleum refineries	272	455	-1 799	1 886	363	141	558	149	48	628										87		Petroleum refineries
Coal transformation Other transformation	- 272	155									2.2									- 117 -2.3		Coal transformation
		40		00	0.4			0.4	7.0	74	-2.3								40.4			Other transformation
Losses & own use Discrepancy	- 52	- 48 -1.1		- 82 -4.6	-0.1 3.2	- 22	12	-0.1 16	-7.9 -0.2	- 74 - 14	- 22 8.7								- 124 3.3	- 275 - 40		Losses & own use Discrepancy
Total final consumption	121			1 454	315	10		30	77	814	199						11	6.8		2 877	11	Total final consumption
Total final energy consumption	119			651	315	10		30	61	28	199						11	6.8		2 062	11	Total final energy consumption
Industry sector	119			65	0.2	0.1		22	11	27	149						11	6.8		1 044	11	
Mining and quarrying	113	03		0.3	0.2	0.1	0.1	0.1	0.1	21	143						- 11	0.0	1.0	1.3	''	Mining and quarrying
Construction				0.5			0.1	0.1	0.1										4.2	4.8		Construction
Iron and steel	1.2	69		3.3			0.3	2.2	0.4	0.4	21								58	152		Iron and steel
Chemical & petrochemical	52			42			2.0	6.5	6.7	27	44								175	313		Chemical & petrochemical
Non-ferrous metals	32			1.5			2.0	1.2	0.7	21	3.5								8.1	13		Non-ferrous metals
Non-metallic minerals	37			6.8			0.5	6.0	0.3		12								20	77		Non-metallic minerals
Transportation equipment] "			0.8	0.1		0.1	0.1	0.4		1.6								10	13		Transportation equipment
Machinery	0.4			2.0	0.1	0.1	0.2	0.5	1.2		26								265	293		Machinery
Food, beverages and tobacco	0.4			2.2		0.1	0.2	0.8	0.8		12						0.8		17	33	0.8	Food, beverages and tobacco
Pulp, paper and printing	19			1.6			0.5	1.4	0.2		2.5						4.5	2.0		45	4.5	Pulp, paper and printing
Wood and wood products				0.1					0.2		0.2							2.0	1.4	1.6		Wood and wood products
Textiles and leather	8.8			2.5				2.0	0.5		8.5								20	39		Textiles and leather
Non-specified industry	0.1			1.1				0.6	0.5		19						5.6	4.8		60	5.6	Non-specified industry
Transport sector				489	313	2.9	170	2.0	0.4										6.0	495	0.0	Transport sector
Domestic air transport				2.9	0.0	2.9		2.0	0.1										5.5	2.9		Domestic air transport
Road				481	313	2.0	167		0.4										0.7	481		Road
Rail				0.5	0.0		0.5		vr										5.3	5.8		Rail
Inland waterways																			0.1	0.1		Inland waterways
Non-specified transport				4.4			2.4	2.0												4.4		Non-specified transport
Other sector				97	1.8	7.1		5.9	49	0.2	49								376	523		Other sector
Residential				39					39		32								184	255		Residential
Commerce and public services				40	1.4	7.1	16	5.1	9.9	0.2	17								181	238		Commerce and public services
Agriculture				2.8	0.3		2.4	0.1			0.2								8.1	11		Agriculture
Fishery				15			15	0.7											3.7	19		Fishery
Non-specified																						Non-specified
Non-energy	1.6	8.7	1.6	803					16	787										815		Non-energy
										Elect	ricity and heat	output										
Electricity generated (GWh)	121 037			4 449							112 006	8 899	23 755	25	10 677	3 543	1 956	1 807		288 154	25 100	Electricity generated (GWh)
Electricity plants	94 128			3 613							111 060	8 899	23 755	25	10 677	3 543	39			255 739	23 183	, ,
CHP plants	26 909			836							946						1 917	1 807		32 415		CHP plants
Heat generated (PJ)	79			7							1						1	1		89	1	Heat generated (PJ)
Heat plants																						Heat plants
				7														1		89		CHP plants

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

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

Energy balance table of Chinese Taipei

2021

											Petajoules											
						Petrole	eum products										0.1		EL		-	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear (Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production			0.1	'		'		'			3.7	13	303	0.3	32	8.0	35	27		422	88	Production
Import	1 666	5.9	1 677	620	4.2	1.5	1.5	34	25	553	979									4 948		lmport
Export		-1.3	- 32	- 566	- 135	- 15	- 281	- 78	-0.1	- 56										- 599		Export
International marine bunkers				- 62			-6.7	- 56												- 62		International marine bunkers
International aviation bunkers				- 76		- 76														- 76		International aviation bunkers
Stock changes	- 32			-7.1	2.8	-1.9	-6.0	-1.5	1.8	-2.3	-9.8									- 41		Stock changes
Total primary energy supply	1 634	7.5		- 92		- 92	- 292	- 101	27	494	973	13	303	0.3	32	8.0	35	27		4 590		3)
Transfers			26	- 13		-4.3	-3.3	- 15	0.9	- 68										13		Transfers
Total transformation sector	-1 449		-1 696	1 782	352	123	496	137	49	624	- 768	- 12	- 303	-0.3	- 29	-8.0						
Main activity producers	- 833			- 42			-2.9	- 39			- 761	- 12	- 303	-0.3	-5.8	-7.9		-1.5		- 984		, , , , , , , , , , , , , , , , , , ,
Autoproducers	- 324	- 39)	- 14			-0.1	-4.1	-0.1	-9.3	-4.2				- 23		- 25	- 20	165	- 284	- 48	
Gas processing			4.000	4 000	250	400	100	400														Gas processing
Petroleum refineries	200	400	-1 696	1 838	352	123	499	180	50	634										142		Petroleum refineries
Coal transformation Other transformation	- 292	163									0.7									- 129		Coal transformation Other transformation
		- 53	,	- 75	-0.1				-2.8	- 73	-2.7 - 22								400	-2.7 - 272		
Losses & own use Discrepancy	- 33			-0.6	-0. I 5.4	- 17	3.3	20	-2.0	- 13	8.2								- 122 2.8	- 272		Losses & own use Discrepancy
Total final consumption	152				306	9.1	204	40	74	966	191				3.0		10	5.6		3 071		
Total final energy consumption	150			651	306	9.1	204	40	61	30	191				3.0		10			2 109		
Industry sector	150			78	0.2	0.1	4.6	30	13	30	143				0.0		10			1 105		• • •
Mining and quarrying	150	0.		0.3	0.2	0.1	0.1	0.1	0.1	50	145						10	5.0	1.0	1.2		Mining and quarrying
Construction				0.6			0.5	0.1	•										4.2	4.8		Construction
Iron and steel	6.7	69		4.0			0.2	2.8	0.5	0.5	22								62	165		Iron and steel
Chemical & petrochemical	69			49			2.4	9.3	7.8	29	41								196	354		Chemical & petrochemical
Non-ferrous metals				1.8				1.5	0.3		4.1								9.1	15		Non-ferrous metals
Non-metallic minerals	42			8.2			0.5	7.4	0.3		11								21	82		Non-metallic minerals
Transportation equipment				0.9	0.1		0.1	0.2	0.4		1.7								8.8	11		Transportation equipment
Machinery	0.5			2.2		0.1	0.3	0.6	1.2		23								260	286		Machinery
Food, beverages and tobacco	1.0			3.4			0.5	2.0	0.8		9.6						0.8		17	32	0.8	Food, beverages and tobacco
Pulp, paper and printing	21			1.7				1.5	0.2		2.3						3.8	0.8	16	45	3.8	Pulp, paper and printing
Wood and wood products				0.1				0.1			0.2								1.5	1.8		Wood and wood products
Textiles and leather	9.1			3.8				3.3	0.5		7.9								22	42		Textiles and leather
Non-specified industry	0.5			1.5				0.9	0.5		20						5.8	4.8	ò	64		Non-specified industry
Transport sector				477	304	2.0	169	2.0	0.4										5.6			Transport sector
Domestic air transport				2.0		2.0														2.0		Domestic air transport
Road				471	304		166		0.4										0.5	471		Road
Rail				0.6			0.6												5.0	5.6		Rail
Inland waterways																			0.1	0.1		Inland waterways
Non-specified transport				4.0			2.0	2.0							~ -					4.0		Non-specified transport
Other sector				96	1.8	6.9	31	8.4	48	0.2	48				3.0				374	521		
Residential				38	4.4		45	7.0	38	0.0	31				2.9				190	262		
Commerce and public services				40	1.4 0.4	6.9	15	7.2	9.5	0.2	16				0.1				173			'
Agriculture Fishery				2.8 15			2.4 14	0.1 1.2			0.2								8.2 3.7			Agriculture Fishery
Non-specified				15			14	1.2											J./	10		Non-specified
Non-energy	1.9	7.3	2.4	950					13	936										961		Non-energy
ton-energy	1.3	1.	2.4	350					13		ricity and heat	outout								301		1 Will-elielyy
Electricity generated (GWh)	128 846			5 331						Electi	108 359	6 659	27 788	0	7 970	2 257	2 079	1 721		291 020	18 975	Electricity generated (GWh)
Electricity generated (Gvvn) Electricity plants	95 873			4 095							108 339	6 659	27 788	9		2 257				252 577		
CHP plants	32 973			1 236							475	0 039	21 100	9	1310	2 231	2 038			38 443		
Heat generated (PJ)	89			9							7/3						2 030			101		Heat generated (PJ)
Heat plants				,													2			101	2	Heat plants
CHP plants	89			9													2	1		101	2	CHP plants

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

Major energy indicators of Chinese Taipei

	4000	400.5	20.00	2224	0005	2025		2025	2222	2227	000.5		etajoules	2011	2042	2012	2044	2245	2042	2047	22.42	0040	2225	2024	000.5	
otal	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Primary energy supply	1 955	2 606	3 447	3 613	3 794	3 945	4 130	4 167	4 2 7 8	4 488	4 315	4 217	4 5 0 1	4 497	4 460	4 543	4 634	4 580	4 602	4 587	4 63 0	4 5 1 0	4 413	4 590	4 435	P rimary energy supply
P ro ductio n	447 1 717	451 2 492	502 3 330	483 3 523	525 3 675	526 3 977	534 4 464	533 4 513	531 4 618	541 4 878	544 4 669	548 4 546	551 4783	560 4 625	552 4 741	564 4 815	566 4 97 5	504 4 9 50	456 5 012	350 5 118	407 5 135	466 5 0 5 9	454 4 698	422 4 948	400 4 881	Production
Import Export	- 23	- 72	- 99	- 185	- 258	- 419	- 561	- 652	-623	4 878 - 737	- 718	4 54 b - 78 7	- 679	- 584	- 712	- 734	- 731	-708	- 727	- 717	- 771	- 820	4 698 - 546	4 948 - 599	- 700	Import Export
	1 063	1 397	1 743	1 745	1 825	1 868	1 940	1 978	2 003	2 008	1 920	1 860	1 989	2 015	1 986	2 008	2 009	2 000	2 033	2 030	2 05 6	2 038	2 058	2 109	2 062	
Final energy consumption Industry	511	649	840	829	880	898	935	942	978	1 005	942	884	992	1 013	1 002	1 023	1 011	990	998	1 000	1 050	1 027	1 031	1 105	1 044	Final energy consumptio Industry
Transport	277	407	470	471	488	489	508	522	520	502	474	479	496	503	494	493	497	507	521	516	502	505	509	483	495	Transport
Residential	125	169	216	216	221	227	231	242	240	243	241	242	241	243	237	235	240	239	249	248	242	242	256	262	255	Residential
C ommerce & public services Others	104 45	128 45	179 40	188 41	194 42	207 47	217 49	227 44	233 32	234 24	234 30	229 25	235 25	231 25	226 27	230 27	234 28	236 28	236 28	239 27	232 31	232 31	233 30	230 30	238	C ommerce & public se Others
oaland peat	73	7,			72		7,		32		30						20	20	20	21					30	Coal and peat
Primary energy supply	440	670	1 142	1 200	1 299	1 385	1 447	1 478	1 540	1 613	1 548	1 485	1 5 9 4	1 652	1 611	1 648	1 661	1 609	1 629	1 653	1 661	1 630	1 529	1 634	1 543	P rimary energy supply
P ro ductio n	12	5.8	2.0	4.046	4 205	4.350	4 400			4.545	4.570	4 450	4.505	4	4.505	4.555		4.500	4 545	4.550	4.510	4.550	4.550		4.550	Production
Import Export	471	728	1 129	1 2 1 6	1 285	1 358	1 498	1 492	1 543	1 616	1 578	1 450	1 586	1 655	1 596	1 655 -0.1	1 65 1 -0.1	1 629	1 616	1 659	1 640	1 662	1 560	1 666	1 562	Import Export
	- 330	- 523	- 936	-1 009	-1 075	-1 178	-1 232	-1 281	-1 335	-1 394	-1 348	-1 298	-1 371	-1 413	-1 391	-1 419	-1 432	-1 375	-1 408	-1 453	-1 495	-1 428	-1 402	-1 449	-1 370	
Transformation sector Power generation	- 208	- 389	- 745	- 810	- 874	- 976	-1 026	-1 084	-1 135	-1 193	-1 152	-1 128	-1 136	-1 148	-1 140	-1 127	-1 129	-1 076	-1 099	-1 153	-1 192	-1 142	-1 129	-1 157	-1 098	Transformation sector Power generation
_	107	128	163	171	183	174	183	185	192	191	176	168	184	214	209	215	204	207	210	196	148	150	150	150	119	
Final energy consumption Industry	107	128	163	171	183	174	183	185	192	191	176	168	184	214	209	215	204	207	210	196	148	150	150	150	119	Final energy consumption Industry
Transport																										Transport
Residential																										Residential
C ommerce & public services Others	0.2																									Commerce & public se Others
Coal and peat products																										Coal and peat products
Primary energy supply	3.0	6.6	10	8.9	12	12	6.6	1.6	14	14	10	1.2	-0.1	0.7	4.5	0.2	4.7	6.5	6.1	6.9	8.1	5.9	-0.2	7.5	5.5	P rimary energy supply
P ro duction	4.0	6.4			43	44			40	4.5	42	2.2		3.0								7.0		50		Production
Import Export	4.8 -0.7	8.1	9.0 -0.3	8.6 -0.2	-0.3	11 -0.3	9.0	5.9 -1.3	10 -0.6	-0.3	12 -2.6	2.2 -1.1	5.7 -3.4	3.0 -2.9	6.9 -3.3	5.1 -0.4	5.1 -2.1	5.5	5.9	8.0 -1.3	8.8 -0.7	7.6 -0.6	7.3 -3.4	5.9 -1.3	6.1 -1.5	Import Export
-	53	63	83	82	86	83	89	86	85	-0.5	93	82	118	111	108	122	108	120	125	116	120	121	121	124	122	
Transformation sector Power generation	- 17	- 11	- 16	- 18	- 19	- 19	- 20	-18	- 17	- 17	- 11	-11	- 16	- 25	- 21	- 24	-36	- 36	- 36	- 36	- 38	- 38	- 37	- 39	- 33	Transformation sector Power generation
-	30	35	53	52	53	53	53	52	56	56	60	52	69	62	63	74	67	64	65	62	66	64	60	69	60	_
Final energy consumption Industry	30	35	53	52	53	53	53	52	56	56	60	52	69	62	63	74	67	64	65	62	66	64	60	69	69	Final energy consumption Industry
Transport																										Transport
Residential																										Residential
C ommerce & public services																										C ommerce & public se
Others Crude oil & NGL																										Others Crude oil & NGL
Primary energy supply	904	1 273	1 59 5	1 6 6 5	1 730	1 948	2 181	2 278	2 181	2 154	1 978	2 094	1 922	1 786	1 971	1 867	1 866	1 842	1 897	1 858	1 952	1 940	1 583	1 651	1 769	P rimary energy supply
P ro ductio n	6.9	2.3	1.4	1.5	1.9	1.7	1.7	1.2	0.9	0.7	0.6	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	Production
Import Export	930	1 264	1 625	1 670	1 725	1 956	2 215	2 293	2 193	2 175	2 004	2 078	1 928	1 755	1 951	1 847	1 900	1 851	1 891	1 875 - 17	1 93 8 - 1 8	1 951 - 21	1 627 - 23	1 677 - 32	1 791 - 29	Import Export
	- 904	-1 273	-1 595	-1 665	-1 730	-1 951	-2 203	-2 288	-2 196	-2 181	-1 985	-2 102	-1 930	-1 787	-1 984	-1 871	-1 873	-1 847	-1 903	-1 869	-1 961	-1 957	-1 603	-1 696	-1 799	
Transformation sector Petroleum refineries	- 904	-1 273	-1 595	-1 665	-1 730	-1 951	-2 203	-2 288	-2 196	-2 181	-1 985	-2 102	-1 930	-1 787	-1 984	-1 871	-1 873	-1 847	-1 903	-1 869	-1 961	-1 957	-1 603	-1 696	-1 799	Transformation sector Petroleum refineries
Petroleum products	1																								- 1100	P etroleum products
Primary energy supply	165	99	-8.9	25	- 35	- 204	- 370	- 477	-364	- 243	- 205	- 340	- 111	- 100	- 301	- 159	- 127	- 93	- 132	- 105	- 232	- 355	- 45	- 92	- 287	P rimary energy supply
Import	279 - 22	367 - 72	348 - 99	395 - 185	389 - 258	377 - 419	401 - 561	369 - 650	489 -622	662 - 737	628 - 715	578 - 786	716 - 676	611 - 581	558 - 708	679 - 734	752 - 729	751 -708	755 - 727	748 - 698	703 - 752	607 - 798	611 - 520	620 - 566	514 - 669	Import
E xport																										E xport
Transformation sector Power generation	775 - 207	1 048 - 289	1 371 - 279	1 497 - 229	1 583 - 186	1 836 - 178	2 052 - 165	2 134 - 162	2 071 - 187	2 065 - 163	1 925 - 148	2 05 8 - 9 4	1 921 - 112	1 780 - 95	1 974 - 80	1 893 - 68	1 884 -79	1 845 - 118	1 860 - 117	1 819 - 123	1 961 - 85	1 9 6 7 - 6 1	1 661 - 47	1 782 - 56	1 839 - 47	Transformation sector
Petroleum refineries	983	1 337	1 65 1	1 727	1 768	2 014	2 217	2 296	2 2 5 8	2 228	2 073	2 152	2 033	1 875	2 054	1 962	1 963	1 963	1 977	1 942	2 046	2 027	1 707	1 838	1 886	Power generation Petroleum refineries
Final energy consumption	619	776	874	857	880	875	889	891	874	837	776	757	775	757	721	708	699	692	695	684	691	680	676	651	651	Final energy consumption
Industry	210	252	275	253	261	250	241	234	233	223	188	169	177	155	131	119	105	86	78	74	98	83	74	78	65	Industry
Transport	276	406	468	469	487	487	506	520	518	499	469	474	490	497	486	485	490	502	516	511	496	500	503	477	489	Transport
Residential	47 46	52 29	62 38	59 43	57 42	54 47	54 48	55 48	53 48	53 47	52 46	51 46	50 43	49 41	48 39	47 40	46 40	47 40	48 37	46 38	40 37	40 38	40 40	38 40	39	Residential
C ommerce & public services Others	39	37	32	33	33	38	40	35	22	15	21	16	15	15	17	17	18	17	17	16	20	20	18	18	18	C ommerce & public se Others
Gas																										Gas
Primary energy supply	59	146	235	261	296	306	361	372	391	424	453	443	555	611	638	636	676	724	757	832	840	828	894	973	1 008	P rimary energy supply
P ro ductio n	44 32	32 125	25 219	28 234	30 264	28 275	27 342	18 353	16 383	14 409	12 448	12 437	10 547	11 602	15 629	13 630	13 667	13 714	11 744	8.9 828	6.6 845	5.6 832	3.5 892	3.7 979	3.2 1 007	Production
Import Export	32	123	219	234	204	2/3	342	333	303	409	440	437	34/	602	029	650	007	/ 14	/44	020	043	032	092	9/9	1 007	Import Export
Transformation sector	- 11	- 52	- 142	- 171	- 204	- 212	- 262	- 284	-293	- 325	- 360	- 343	- 440	- 476	- 490	- 504	- 538	- 582	- 611	- 673	- 671	- 651	- 711	- 768	- 796	
Power generation	- 11	- 52 - 52	- 142	- 171	- 204	- 212	- 262 - 262	- 284	-293	- 325	- 359	- 343	- 440	- 475	- 490	- 504 - 503	- 536 - 536	-582	- 611	- 671	- 668	- 647	- 711	- 766	- 796	Transformation sector Power generation
	31	50	65	65	71	70	76	79	79	81	81	82	92	100	111	117	126	132	140	150	163	167	173	191	199	Final energy consumptio
Final enemy consumption	8.0	21	31	31	37	31	35	34	36	37	35	35	43	54	68	74	81	88	94	105	116	120	125	143	149	Industry
Final energy consumption Industry	0.0																								1	Transport
Industry Transport		23	26	26	27	29	31	32	31	31	31	32	31	30	30	27	27	27	27	27	29	29	31	31	32	Residential
Industry Transport Residential	19			7.7	7.8	9.3	11	13	13	13	15	15	18	16	14	16	17 0.1	17 0.1	18 0.1	18 0.1	18 0.2	18 0.2	17 0.2	16 0.2	17 0.2	C ommerce & public se Others
Industry Transport Residential Commerce & public services		5.8	7.5														0.1	U.1	0.1	V-1	0.2	U.Z	U-Z	U-Z	0.2	Utilets
Industry Transport Residential Commerce & public services Others	19		7.5																							Flectricity
Industry Transport Residential Commerce & public services Others	19		665	679	716	753	786	819	848	875	858	828	889	908	901	908	936	929	951	973	992	987	1 008	1 048	1 037	E lectricity Power generation
Industry Transport Residential Commerce & public services Others lectricity Power generation Thermal	19 3.8 325 176	5.8 479 318	665 488	510	540	576	608	634	662	685	669	638	697	713	707	708	736	749	779	836	835	804	829	873	1 037 855	Power generation Thermal
Industry Transport Residential Commerce & public services Others lectricity Power generation Thermal Hydro	19 3.8 325 176 29	5.8 479 318 32	665 488 32	510 33	540 23	576 25	608 24	634 28	662 29	685 30	669 28	638 25	697 26	713 25	707 31	708 31	736 27	749 27	779 35	836 32	835 28	804 32	829 22	873 24		Power generation Thermal Hydro
Industry Transport Residential Commerce & public services Others lectricity Power generation Thermal Hydro Nuclear	19 3.8 325 176 29 118	5.8 479 318 32 127	665 488 32 139	510 33 128	540 23 142	576 25 140	608 24 142	634 28 144	662 29 144	685 30 146	669 28 147	638 25 150	697 26 150	713 25 152	707 31 146	708 31 150	736 27 153	749 27 131	779 35 114	836 32 81	835 28 100	804 32 116	829 22 113	873 24 100		Power generation Thermal Hydro Nuclear
Industry Transport Residential Commerce & public services Others lectricity Power generation Thermal Hydro Nuclear Others	325 176 29 118 0.8	5.8 479 318 32 127 1.8	665 488 32 139 6.5	510 33 128 8.4	540 23 142 10	576 25 140 11	608 24 142 12	634 28 144 12	662 29 144 13	685 30 146 14	669 28 147 14	638 25 150 15	697 26 150 16	713 25 152 18	707 31 146 18	708 31 150 20	736 27 153 20	749 27 131 22	779 35 114 22	836 32 81 25	835 28 100 29	804 32 116 35	829 22 113 44	873 24 100 51	855 32 86 65	Powergeneration Thermal Hydro Nudear Others
Industry Transport Residential Commerce & public services Others lectricity Power generation Thermal Hydro Nuclear Others Final energy consumption	19 3.8 325 176 29 118 0.8 276	5.8 479 318 32 127 1.8 406	665 488 32 139 6.5	510 33 128 8.4 585	540 23 142 10 620	576 25 140 11 652	608 24 142 12 687	634 28 144 12 716	662 29 144 13 741	685 30 146 14 766	669 28 147 14 756	638 25 150 15 726	697 26 150 16 786	713 25 152 18 803	707 31 146 18	708 31 150 20 816	736 27 153 20 836	749 27 131 22 832	779 35 114 22 851	836 32 81 25	835 28 100 29 891	804 32 116 35 886	829 22 113 44 907	873 24 100 51 952	855 32 86 65 938	Power generation Thermal Hydro Nuclear Others Final energy consumptio
Industry Transport Residential Commerce & public services Others Lectricity Power generation Thermal Hydro Nuclear Others Final energy consumption Industry	325 176 29 118 0.8	5.8 479 318 32 127 1.8	665 488 32 139 6.5	510 33 128 8.4	540 23 142 10	576 25 140 11	608 24 142 12	634 28 144 12	662 29 144 13	685 30 146 14	669 28 147 14	638 25 150 15	697 26 150 16	713 25 152 18	707 31 146 18	708 31 150 20	736 27 153 20	749 27 131 22	779 35 114 22	836 32 81 25	835 28 100 29	804 32 116 35	829 22 113 44	873 24 100 51	855 32 86 65	Power generation Thermal Hydro Nudear Others Final energy consumptio Industry
Industry Transport Residential Commerce & public services Others Electricity Power generation Thermal Hydro Nuclear Others Final energy consumption	19 3.8 325 176 29 118 0.8 276 156	479 318 32 127 1.8 406 213	665 488 32 139 6.5 576 309	510 33 128 8.4 585 309	540 23 142 10 620 331	576 25 140 11 652 350	608 24 142 12 687 375	634 28 144 12 716 386	662 29 144 13 741 404	685 30 146 14 766 425	669 28 147 14 756 417	638 25 150 15 726 390	697 26 150 16 786 442	713 25 152 18 803 455	707 31 146 18 801 457	708 31 150 20 816 471	736 27 153 20 836 482	749 27 131 22 832 476	779 35 114 22 851 484	836 32 81 25 870 499	835 28 100 29 891 529	804 32 116 35 886 524	829 22 113 44 907 534	873 24 100 51 952 572	855 32 86 65 938 555	Power generation Thermal Hydro Nuclear Others Final energy consumption

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	2022	
Population (million) *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	23.25	Population (million) *1
Gross domestic product 13																										Gross domestic product ³
Real term, billion USD (constant 2015)	164	235	313	309	326	340	363	383	405	433	436	429	473	491	502	514	538	546	558	576	592	611	631	673	688	Real term, billion USD (constant 2015)
GDP, billion USD (PPP, constant 2017)	359	515	685	676	713	743	794	837	885	946	954	938	1 034	1 072	1 096	1 124	1 177	1 194	1 220	1 2 6 0	1 295	1 335	1 380	1 471	1 509	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	118	205	259	267	334	382	439	448	469	531	497	488	531	519	511	456	504	546	519	520	534	566	619	668	690	Nominal, billion USD (current)
GDP per capita ³																										GDP per capita ³
Real term (constant 2015 USD)	8 0 8 8	11 070	14 130	13 834	14 513	15 060	16 047	16 849	17 748	18 886	18 971	18 600	20 450	21 153	21 552	22 016	22 997	23 276	23 726	24 470	25 126	25 878	26 771	28 656	29 609	Real term(constant 2015 USD)
GDP, PPP (constant 2017 USD) ¹⁵	17 681	24 199	30 888	30 242	31 726	32 921	35 078	36 832	38 797	41 285	41 470	40 658	44 703	46 240	47 111	48 128	50 272	50 880	51 864	53 492	54 925	56 570	58 520	62 697	64 930	GDP. PPP (constant 2017 USD) ¹⁵
Nominal (current USD)	5 806	9 653	11 680	11 967	14 850	16 923	19 388	19 693	20 539	23 177	21 610	21 157	22 937	22 393	21 977	19 550	21 527	23 276	22 080	22 078	22 640	23 971	26 243	28 476	29 689	Nominal (current USD)
Nominal GDP & its components (billion of current TWD) *1																										Nominal GDP & its components (billion of current TWD) 11
Gross domestic product	4 474	7 3 9 1	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 91 5	21 739	22 667	Gross domestic product
Private Final Consumption	2 3 4 1	3 9 6 9	5 706	5 756	5 953	6 098	6 488	6 780	6 943	7 191	7 2 5 0	7 163	7 481	7 775	8 0 1 6	8 2 4 2	8 603	8 788	9 082	9 3 2 6	9 610	9 883	9 60 1	9 697	10 330	Private Final Consumption
Government Final Consumption	806	1 2 5 0	1 625	1 710	1 756	1 772	1 812	1 857	1876	1 948	2 011	2 076	2 122	2 192	2 284	2 2 5 9	2 361	2 364	2 482	2 487	2 623	2 653	2 773	2 9 3 8	3 121	Government Final Consumption
Gross Fixed Capital Formation	1 1 0 9	2 0 2 5	2 719	2 235	2 282	2 362	2 851	2 923	3 0 6 2	3 2 1 9	3 049	2 763	3 330	3 333	3 3 1 4	3 466	3 631	3 664	3 808	3 796	4 001	4 527	4 817	5 676	6 272	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	39	Changes in Inventories
Exports	2 021	3 448	5 444	5 099	5 667	6 249	7 404	7 841	8 9 9 4	10 169	10 171	8 733	11 198	11 529	11 635	11854	12 559	12 157	11 808	12 096	12 191	11 923	11 568	14 440	16 310	Exports
Imports	1 834	3 3 4 6	5 258	4 617	4 982	5 570	7 060	7 399	8 3 4 7	9 180	9 5 4 5	7 632	10 268	10 600	10 588	10 527	10 934	9 959	9 615	9 6 9 6	10 136	10 050	8 849	11 196	13 405	Imports
Real GDP & its components (billion of 2019 TWD) 11																										Real GDP & its components (billion of 2019 TWD) 1
Gross Domestic Product	5 161	7 4 0 8	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	21 659	Gross Domestic Product
Private Final Consumption	3 156	4 5 5 8	6 179	6 267	6 485	6 670	7 020	7 255	7 3 8 4	7 5 6 1	7 4 3 0	7 427	7 703	7 936	8 0 8 8	8 2 9 5	8 602	8 849	9 082	9 3 2 7	9 519	9 733	9 485	9 4 5 1	9 786	Private Final Consumption
Government Final Consumption	1 290	1 680	1 958	2 013	2 050	2 039	2 063	2 073	2 0 6 3	2 1 0 8	2 143	2 212	2 238	2 288	2 3 4 2	2 3 1 0	2 397	2 394	2 482	2 472	2 571	2 585	2 657	2 755	2 855	Government Final Consumption
Gross Fixed Capital Formation	1 532	2 444	3 355	2 771	2 819	2 852	3 250	3 352	3 4 0 4	3 4 6 0	3 0 6 5	2 793	3 325	3 278	3 2 3 6	3 4 6 4	3 585	3 681	3 808	3 798	3 919	4 355	4 622	5 2 9 1	5 623	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	30	Changes in Inventories
Exports	1 925	2 985	4 676	4 352	4 889	5 422	6 307	6 836	7 6 7 6	8 541	8 7 8 4	8 035	10 255	10 655	10 857	11 205	11 876	11 919	11 808	12 340	12 364	12 449	12 597	14773	15 105	Exports
Imports	2 3 7 0	3 698	5 703	4 962	5 329	5 777	6 818	7 066	7 4 8 4	7 8 2 5	7728	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 2 6 9	11 778	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	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	302	33.3	34.0	34.8	35.0	36.5	36.3	36.9	37.A	37.3	36.7	38.0	40.4	40.2	Industry
Services	65.1	69.2	71.4	72.9	71.3	70.4	69.3	68.4	67.6	66.2	66.0	663	63.9	63.6	63.0	62.9	61.9	61.8	61.3	61.0	61.1	61.4	60.2	58.1	58.1	Services
Industrial production index (2016=100)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Industrial production index (2016=100) 1
External trade (billions of current USD) *1																										External trade (billions of current USD) 11
Exports, f. o.b.	67.A	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 <i>A</i>	284.4	279.2	315.5	334.0	329.2	345.1	446.4	479 A	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 <i>A</i>	281.1	236.4	229.2	257.2	284.8	285.7	286.1	382.0	428.0	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion of current USD) *2
Balance on Goods and Services	7.1	4.2	6.4	142	19.9	21.5	10.1	10.2	17.5	25.7	30.3	25.8	28.4	30.9	39.4	48.9	62.3	60.5	60.5	72.5	60.3	52.4	79.0	100.4	81.2	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	101.3	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	402	6.2	15.5	11.3	13.0	15.0	10.7	10.7	12.5	12.5	16.7	48.3	21.0	10.9	Overall balance
Foreign exchange rate (TWD/USD) "	26.89	26.49	31.23	33.81	34.58	34.42	33 <i>A</i> 3	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	28.02	Foreign exchange rate (TWD/USD) 1
PPP conversion factor, GDP (TWD/USD) 14	13.27	13.07	15 <i>A</i> 1	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	14.04	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	104.7	GDP Deflator (2016=100) ²
Wholesale Price Index (2016=100) ²	87.2	94.6	912	90.0	90.0	92.2	98.7	99.3	104.9	111.7	117 <i>A</i>	107.2	113.0	117.9	116.6	113.7	113.1	103.1	100.0	100.9	104.6	102.2	94.3	103.2	116.0	Wholesale Price Index (2016=100) ²
Consumer Price Index (2021=100) ²	63.5	76 <i>A</i>	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	103.0	Consumer Price Index (2021=100) 12
Growth rate (%) *2																										Growth rate (%) *2
Real GDP	5.5	6.5	6.3	-14	5.5	4.2	7.0	5.4	5.8	6.9	8.0	-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	9.0	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	-1.4	Population
Price																										Price
Wholesale prices	-0.6	7.4	1.8	-13	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	23.1	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	8.0	12	-0.3	1.1	2.0	2.0	1.9	0.3	1.7	5.0	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 2021 (estimated by APERC)

Note

- : N.A. means "not available"
- : TWD means New Taiwan 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.

Energy prices in Chinese Taipei

IMPORT PRICES

	11-:4	2010	2011	2012	2012	2014	2015	2016	2017	2010	2010	2020	2024	2022
	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	TWD / US Dollar	31.64	29.36	29.68	29.63	30.18	31.56	32.32	30.63	30.63	30.95	29.68	27.98	29.39
Coal and Coal Products														
Coking Coal	USD/tonne	197.40	292.19	218.96	167.07	133.32	108.32	131.80	219.87	217.02	196.06	131.18	196.97	380.33
Anthracite	USD/tonne	183.07	219.37	179.08	154.70	151.37	98.95	101.72	151.30	175.89	176.85	157.62	182.62	359.82
Other bituminous coal	USD/tonne	103.79	128.03	119.15	102.24	91.72	74.57	67.47	94.88	111.68	97.97	73.90	119.28	270.55
Sub-bituminous Coal	USD/tonne	80.98	92.54	90.59	75.34	69.10	56.14	46.94	69.65	77.77	71.99	59.01	72.35	164.90
Lignite														
Peat														
Patent Fuel														
Coke	USD/tonne	346.76	494.12	332.05	289.19	249.45	206.30	217.01	280.70	346.58	287.67	241.91	381.03	504.23
Coal Tar														
BKB/PB														
Oil and Oil Products														
Crude Oil	USD/BBL	76.63	106.92	111.12	106.83	101.57	51.72	39.53	52.02		63.85	45.14	68.67	101.05
Natural Gas Liquids														
Ethane														
LPG	USD/tonne	16.45	997.88	890.82	875.83	853.57	464.66	351.10	443.74	550.87	455.14	359.30	647.93	780.99
Naphtha	USD/tonne	726.94	946.29	981.26	931.97	906.0	507.0	394.97	494.13	640.68	533.79	405.10	644.54	838.21
Motor Gasoline														
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene														
Gas/Diesel Oil														
Fuel Oil	USD/kL	508.64	741.40	780.78	702.19	671.24	382.49	305.60	371.59	527.09	496.82	357.10	531.37	872.63
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas														
Liquefied Natural Gas	USD/tonne		683.46	778.14	761.02	730.91	443.59	326.01	387.66	387.66	452.61	312.99	574.88	988.84
Compressed Natural Gas														

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency Exchange Rate	TWD / US Dollar	31.64	29.36	29.68	29.63	30.18	31.56	32.32	30.63	30.63	30.95	29.68	27.98	29.39
Coal and Coal Products														
Coking Coal														
Anthracite														
Other bituminous coal														
Sub-bituminous Coal														
Lignite														
Peat														
Patent Fuel														
Coke														
Coal Tar														
BKB/PB														
Gas Works Gas														
Oil and Oil Products														
Crude Oil														
Natural Gas Liquids														
Ethane														
LPG	TWD/kg	28.46	27.86	30.06	34.91	28.46	24.86	18.76	26.96	22.36	20.46	16.86	16.86	16.86
LPG (transport)														
Naphtha														
Motor Gasoline (regular)	TWD/L	29.12	28.92	32.32	33.32	24.02	18.92	23.45	24.95	22.93	26.13	22.31	25.81	27.41
Aviation Gasoline														
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel														
Other Kerosene	TWD/L	39.00	41.50	41.50	41.80	29.50	22.60	35.30	38.30	35.30	37.60	25.80	33.60	44.10
Gas/Diesel Oil	TWD/L	27.22	27.42	30.72	31.82	21.62	16.02	20.97	22.57	20.51	24.01	17.64	23.74	26.14
Fuel Oil	TWD/L	17.78	20.65	20.87	20.85	20.01	13.83	12.15	12.81	17.37	16.03	12.62	19.13	25.24
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	8.60
Liquefied Natural Gas (export)	TWD/m ³	16.29		22.17	20.87	18.94	12.00		12.71	13.82	11.95	9.10		
Compressed natural gas		1												
Electricity	TWD/kWh	2.61	2.60	2.72	2.89	3.07	2.93	2.62	2.55	2.60	2.62	2.60	2.59	2.72
Industrial		2.01	2.00		2.00	2.01		2.02		2.00	2.02	2.00		
Commercial														
Residential														
Others														
		1			1	1	1							

Thailand

Energy balance table of Thailand

2022

2022											Petajoules											
						Petrole	eum products										0.1					
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	143		290	'		<u> </u>		'			979	24		'	19	11	967			2 433	1 021	Production
Import	566	0.6	1 996	134	16	2.0	38	1.1	76		601								128	3 425		Import
Export	-5.0		- 28	- 339	- 58	- 29	- 125	- 117	-9.0	-0.8									-7.4	- 380		Export
International marine bunkers																						International marine bunkers
International aviation bunkers				- 83		- 83														- 83		International aviation bunkers
Stock changes											-4.4									-4.4		Stock changes
Total primary energy supply	704	0.6	2 257	- 288	- 42	- 110	- 86	- 116	67	-0.8	1 576	24			19	11	967		120	5 391	1 021	7 97 117
Transfers	ļ																					Transfers
Total transformation sector	- 298		-2 169	1 912	376	129		228	245	116	-1 149	- 24			- 19	- 11			689	-1 550	- 535	
Main activity producers	- 298			- 13			- 12	-1.0			- 913	- 24			- 19	- 11	- 429)	689	-1 018	- 483	* '
Autoproducers																						Autoproducers
Gas processing			0.405	4 700	270	100	000	220	00											- 473		Gas processing
Petroleum refineries Coal transformation			-2 195	1 722	376	129	829	229	92	66										- 413		Petroleum refineries Coal transformation
Other transformation			26	203					154	50	- 236						- 53			- 60	- 53	
Losses & own use			-8.0	-3.3					-3.3		- 236 - 137						- 53		- 60	- 208	- 53	Losses & own use
Discrepancy	- 52	1.4		-5.5 18	- 18	13	102	- 19	5.5		46						-1.0		0.7	148	-1.0	
Total final consumption	354			1 640	316	33		94	315		336				0.5		484		749	3 780	485	
Total final energy consumption	354			1 454	316	33		94	179		336				0.5		484		749	3 379	485	
Industry sector	354			164	0.8		99	28	37		291				0.0		265		295	1 371	265	
Mining and quarrying		2.0		0.2	0.0		0.2	20	0,		201						200		4.8	5.0	200	Mining and quarrying
Construction				6.1			3.5	2.6												6.1		Construction
Iron and steel	1.4			12			5.4	0.7	5.7		27								28	68		Iron and steel
Chemical & petrochemical	7.0			22			8.3	1.6	12	0.1	133						27	,	50	240	27	Chemical & petrochemical
Non-ferrous metals																						Non-ferrous metals
Non-metallic minerals	249	1.4		12			7.4	0.6	4.1		65						19)	24	372	19	Non-metallic minerals
Transportation equipment																						Transportation equipment
Machinery				8.5	0.2		5.7	0.3	2.2		23								62	93		Machinery
Food, beverages and tobacco	35	0.2		46	0.1		38	4.6	2.9		15						193		84	374	193	Food, beverages and tobacco
Pulp, paper and printing	42	0.2		5.1			3.7	1.1	0.3		9.5						2.4		10	70	2.4	Pulp, paper and printing
Wood and wood products				3.9			3.9				0.3						20)	10	35	20	Wood and wood products
Textiles and leather	18			2.4			0.6	1.1	0.6		4.7						0.9)	16	42	0.9	Textiles and leather
Non-specified industry	1.4			46	0.4		22	15	8.8		13						1.3		4.2	66	1.3	
Transport sector				1 097	315	33		66	39		45						81		1.0	1 224	81	Transport sector
Domestic air transport				33		33														33		Domestic air transport
Road				987	315		632		39		45						81		0.1	1 112	81	Road
Rail				3.0			3.0												0.9	3.9		Rail
Inland waterways				75			8.8	66												75		Inland waterways
Non-specified transport				***					***											70-		Non-specified transport
Other sector				193			90		103						0.5		138		453 194	785	139	
Residential				78 25					78 25						0.5		138			411	138	
Commerce and public services				25			90		25						0.5				258 1.2	283	0.5	·
Agriculture Fishery				90			90												1.2	91		Agriculture Fishery
Non-specified																						Non-specified
Non-energy			215	185					136	50										401		Non-energy
Horrellergy	-		213	103					150			outout.								401		- two-circity
Electricity concreted (CMh)	34 396			10 895						Elect	tricity and heat 107 020	6 449		1	5 152	3 036	24 367			191 316	39 006	Electricity generated (GWh)
Electricity generated (GWh) Electricity plants	34 396			10 895							107 020	6 449		1	5 152	3 036				191 316		
CHP plants	34 390			10 893							107 020	0 449		1	3 132	5 030	24 30/			191210	39 006	CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat generated (PJ) Heat plants
CHP plants																						CHP plants

Notes

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

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

Energy balance table of Thailand

2021

											Petajoules											
		0.1				Petrole	eum products										04		5 1		T	
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	149		361								1 184	17		0.1	19	13	888			2 630	936	Production
mport	633	0.4	1 877	60	22	0.5	8.7	2.5	27		620						1.8		120	3 313	1.8	lm port
Export	-4.3		- 35	- 433	- 56	- 12	- 236	- 120	-9.0	-1.2							-0.6		-7.2	- 480	-0.6	Export
nternational marine bunkers																						International marine bunkers
nternational aviation bunkers				- 30		- 30														- 30		International aviation bunkers
Stock changes	- 208	1.1	100	- 87	- 22	-0.1	-1.9	- 11	4.5	- 57	-1.9						1.1			- 195	1.1	Stock changes
Fotal primary energy supply	570	1.5	2 302	- 489	- 56	- 41	- 229	- 128	23	- 58	1 802	17		0.1	19	13	890		113	5 238	938	Total primary energy supply
ransfers																						Transfers
otal transformation sector	- 302		-2 064	2 067	361	72	1 008	209	280	138	-1 268	- 17		-0.1	- 18	- 13	- 444		680	-1 378	- 492	Total transformation sector
Main activity producers	- 302			-6.3			-2.5	-3.9			-1 035	- 17		-0.1	- 18	- 13	- 394		680	-1 106	- 442	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			-2 096	1 805	361	72	1 010	213	91	58										- 291		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation			31	269					189	80	- 232						- 50			19	- 50	Other transformation
osses & own use			-7.9	-5.0					-5.0		- 289								- 62	- 363		Losses & own use
Discrepancy			-0.9	-5.0					-3.0		1.9						-0.1		-7.5	-6.6	-0.1	Discrepancy
Total final consumption	268	1.5		1 573	304	31	779	81	297	80	248				0.5		446		724	3 489	447	Total final consumption
otal final energy consumption	268			1 363		31	779	81	167	0.2	217				0.5		446		724	3 019	447	Total final energy consumption
Industry sector	268			170		01	107	29	34	0.2	175				0.0		221		289	1 124	221	Industry sector
Mining and quarrying	200	1.5		0.2			0.2	23	54	0.2	110						221		4.6	4.8		Mining and quarrying
Construction				5.5			3.0	2.5											4.0	5.5		Construction
Iron and steel	1.1			12			5.8	0.8	5.2		16								28	5.5		Iron and steel
Chemical & petrochemical	6.5			23			9.0	2.4	11	0.1	86						27		45	187	27	Chemical & petrochemical
-	0.0	0.1		23			9.0	2.4	- 11	0.1	00						21		45	107	21	•
Non-ferrous metals	100	4.4		13			7.9	0.0	2.0		20						18		0.4	202	40	Non-ferrous metals
Non-metallic minerals	190	1.1		13			7.9	8.0	3.8		39						10		21	282	10	Non-metallic minerals
Transportation equipment									0.4		40											Transportation equipment
Machinery				9.3			6.2	0.8	2.1		13						455		63	86	455	Machinery
Food, beverages and tobacco	19			48			41	4.2	2.7		8.2						155		91	322	155	Food, beverages and tobacco
Pulp, paper and printing	35	0.2		5.3			4.1	1.0	0.3		2.7						2.4		8.5	54	2.4	Pulp, paper and printing
Wood and wood products				4.3			4.3				0.3						16		8.7	30	16	Wood and wood products
Textiles and leather	15			2.7			0.7	1.4	0.6		2.8						0.7		16	37	0.7	Textiles and leather
Non-specified industry	0.6			48			24	15	8.1		6.1						1.1		3.8	59	1.1	Non-specified industry
Transport sector				998	304	31	579	52	31		41						90		8.0	1 130	90	Transport sector
Domestic air transport				31		31														31		Domestic air transport
Road				904	304		569		31		41						90			1 036	90	Road
Rail				2.9			2.9												0.8	3.7		Rail
Inland waterways				59			7.1	52												59		Inland waterways
Non-specified transport																						Non-specified 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 service
Agriculture				93			93												1.4	94		Agriculture
Fishery																						Fishery
Non-specified																						Non-specified
lon-energy			229	211					131	80	31									471		Non-energy
										Flectr	ricity and heat	output							·			
lectricity generated (GWh)	38 938			4 797						2,000	111 915	4 682		2	5 015	3 552	20 042			188 943	33 293	Electricity generated (GWh)
Electricity plants	38 938			4 797							111 915	4 682		2						188 943	33 293	
CHP plants	30 330			7 151							111313	4 002		_	3 0 1 3	3 332	20 042			100 543	33 293	CHP plants
leat generated (PJ)																						Heat generated (PJ)
real gerrerated (FJ)																						rieat generated (PJ)
Heat plants																						Heat plants

Notes:

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

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

Major energy indicators of Thailand

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
otal	1330	1000	2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2015	2010	2017	2010	2013	2020	2021	2022	Total
Primary energy supply	1 640	2 932	3 151	3 2 3 5	3 461	3 742	4 086	4 204	4 2 8 8	4 440	4 575	4 615	5 0 5 8	5 142	5 141	5 493	5 60 6	5 5 0 1	5 754	5 542	5 62 5	5 687	5 369	5 238	5 391	P rimary energy supply
P ro ductio n	958	1 632	1 804	1 755	1 861	1 985	2 077	2 227	2 287	2 407	2 599	2 69 1	3 0 0 4	2 981	3 132	3 285	3 334	3 191	3 337	3 145	3 05 6	3 139	2 770	2 630	2 433	Production
Import	791 34	1 421	1 678 - 228	1 899	2 003	2 166	2 436	2 420	2 479	2 485	2 509	2 617	2 7 4 7	2 685	2 894	2 963	2 922	3 161	3 141	3 320	3 505	3 276 - 430	3 257	3 313	3 425	Import
Export	- 34	- 50		- 316	- 346	- 336	- 354	- 380	-436	- 396	- 495	- 530	- 511	- 473	- 543	- 655	- 453	-506	- 461	- 512	- 534		- 457	- 480	- 380	Export
inal energy consumption	1 143 364	1 951 668	1 934	1 978	2 126	2 265	2 476 944	2 523 972	2 5 5 1	2 589	2 645	2 683	2 822	2 815	2 937	3 002	3 031	3 072	3 201	3 213	3 338	3 405	3 192	3 019	3 379	Final energy consumption
Industry Transport	408	695	716 681	723 673	804 713	859 768	944 848	972 875	1 003 848	1 004 847	1 031 833	1 01 6 88 5	1 079 894	1 049 911	1 136 950	1 148 963	1 188 961	1 181 993	1 244 1 085	1 202 1 168	1 285 1 190	1 3 1 3 1 2 0 7	1 216 1 181	1 124 1 130	1 371 1 224	Industry Transport
Residential	236	414	311	319	329	340	372	377	382	403	421	426	463	466	435	480	484	482	483	459	465	472	429	409	411	Residential
C ommerce & public services	59	108	135	142	152	159	162	160	176	190	213	209	237	233	257	245	231	252	263	273	277	289	268	262	283	C ommerce & public service
Others	76	66	91	120	128	140	151	138	142	146	146	147	148	156	159	165	167	164	126	112	122	124	98	94	91	Others
aland peat	156	296	327	371	388	396	445	482	517	584	630	600	626	662	618	583	546	494	561	584	604	609	646	570	704	C oal and peat
Primary energy supply Production	151	233	218	239	240	222	237	253	224	208	200	202	210	253	201	188	195	163	182	173	159	149	139	149	143	Primary energy supply Production
Import	4.8	61	109	130	149	188	199	227	296	376	422	431	445	437	491	458	556	584	574	586	657	569	630	633	566	Import
E xport								-0.1			-2.0	-0.8	-0.5	-0.2	-0.1	-0.3	-0.8	-0.7	-1.1	-1.5	-2.5	-1.7	-1.9	-4.3	-5.0	Export
Transformation sector	- 103	- 144	- 176	- 188	- 183	- 187	- 197	- 199	-202	- 291	- 304	- 284	- 285	- 362	- 346	- 332	- 356	-313	- 339	- 360	- 316	- 310	- 311	- 302	- 298	Transformation sector
Powergeneration	- 103	- 144	- 176	- 188	- 183	- 187	- 197	- 199	-202	- 291	- 304	- 284	- 285	- 362	- 346	- 332	- 356	-313	- 339	- 360	- 316	- 310	- 311	- 302	- 298	Power generation
inal energy consumption	52	152	151	183	204	209	248	284	315	293	326	316	341	299	273	250	191	181	223	223	288	299	335	268	354	Final energy consumption
Industry	52	152	151	183	204	209	248	284	315	293	326	316	341	299	273	250	191	181	223	223	288	299	335	268	354	Industry
Transport																										Transport
Residential Commerce & public services																										Residential Commerce & public servi
Others																										Others
l and peat products																										C oal and peat products
rimary energy supply	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	0.3	7.5	4.6	6.0	1.1	5.1	4.6	1.8	1.6	1.7	1.9	2.1	1.5	0.6	P rimary energy supply
P ro duction	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	3.3	5.8	3.0	1.0	1.1	1.1	0.6	0.8	2.5	0.5	0.5	0.5	0.4	0.6	Production
Import Export	2.0	2.1	2.2	1.0	1.3	1,0	1.0	1.3	1.5	1.0	1.4	2.3	3.0	D.U	0.2	1.1	1.1	U.D	0.0	2.3	0.5	0.5	U.S	UA	0.0	Import Export
															-											
ransformation sector Power generation																										Transformation sector Power generation
	2.0	2,7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	0.3	7.5	4.6	5.6	1.1	5.1	4.6	1.8	1.6	1.7	1.9	2.1	1.5	2.0	-
inal energy consumption Industry	2.0	2.7	2.2	1.6	1.9	1.8	1.8	1.9	1.5	1.8	1.4	0.3	7.5	4.6	5.6	1.1	5.1	4.6	1.8	1.6	1.7	1.9	2.1	1.5	2.0	Final energy consumption Industry
Transport																										Transport
Residential																										Residential
C ommerce & public services																										C ommerce & public servi
Others																										Others
rimary energy supply	512	1 052	1 657	1 686	1 754	1 912	2 088	2 043	2 123	2 131	2 200	2 222	2 2 2 7	2 186	2 295	2 492	2 376	2 583	2 568	2 630	2 633	2 3 8 3	2 338	2 302	2 257	C rude oil & NGL P rimary energy supply
P ro duction	88	108	223	230	263	324	313	374	416	435	474	481	507	467	505	502	475	507	525	487	463	456	411	361	290	Production
Import	459	965	1 426	1 5 0 4	1 536	1 636	1 840	1 746	1 749	1 684	1 712	1 807	1 784	1 744	1 881	1 882	1 749	1 877	1 848	1 951	2 061	1 838	1 851	1 877	1 996	Import
Export	- 32	- 30	- 22	- 81	- 114	- 129	- 122	- 144	-144	- 114	- 106	- 94	- 67	- 76	- 100	- 68	-27	-5.7	- 69	- 73	- 66	- 56	- 54	- 35	- 28	Export
Transformation sector	- 489	-1 042	-1 582	-1 591	-1 661	-1 796	-1 966	-1 920	-1 989	-1 983	-2 044	-1 999	-2 000	-1 936	-2 029	-2 236	-2 125	-2 342	-2 285	-2 367	-2 372	-2 124	-2 086	-2 064	-2 169	Transformation sector
Petroleum refineries	- 494	-1 051	-1 598	-1 610	-1 681	-1 817	-1 987	-1 945	-2 013	-2 009	-2 070	-2 025	-2 026	-1 969	-2 066	-2 272	-2 163	-2 378	-2 323	-2 403	-2 406	-2 159	-2 117	-2 096	-2 195	Petroleum refineries
roleum products Primary energy supply	249	288	- 289	- 356	- 321	- 309	- 306	- 282	- 373	- 425	- 533	- 567	- 589	- 377	- 602	- 656	- 439	-696	- 611	- 808	- 723	- 502	- 522	- 489	- 288	P etroleum p roducts P rima ry ene rgy supply
Import	322	388	49	16	35	36	64	84	58	35	15	18	6.8	88	111	135	158	97	112	124	109	201	79	60	134	Import
Export	-0.9	- 19	- 206	- 235	- 231	- 205	- 231	- 233	-289	- 277	- 381	- 428	- 436	- 386	- 426	- 579	- 418	-490	- 385	- 433	- 461	- 361	- 391	- 433	- 339	Export
ransformation sector	393	753	1 326	1 4 1 5	1 440	1 501	1 591	1 563	1 610	1 659	1 718	1 786	1 829	1 650	1 909	2 507	1 915	2 2 3 6	2 241	2 341	2 428	2 2 3 2	2 114	2 067	1 912	Transformation sector
Powergeneration	- 107	- 237	- 98	- 31	- 28	- 30	- 72	-83	- 82	- 38	- 16	-7.2	- 11	- 19	- 22	- 15	-16	-8.5	-4.4	-2.4	-1.8	-2.5	-2.2	-6.3	- 13	Power generation
Petroleum refineries	473	927	1 348	1 3 6 1	1 381	1 439	1 569	1 533	1 578	1 568	1 599	1 65 6	1 627	1 449	1 680	2 358	1 731	1 9 6 7	1 964	2 049	2 130	1 934	1 852	1 805	1 722	P etroleum refineries
Final energy consumption	634	1 008	1 020	1 038	1 098	1 169	1 262	1 254	1 2 1 0	1 205	1 154	1 170	1 176	1 195	1 266	1 280	1 296	1 3 1 0	1 414	1 432	1 451	1 463	1 393	1 363	1 454	Final energy consumption
Industry	112 408	186 695	181 680	174 673	185 713	188 767	193 846	168 872	144 842	137 830	123 780	115 799	117 792	121 788	160 798	212 785	258 765	248 796	276 908	219 996	204 1 02 0	201 1 035	168 1 029	170 998	164 1 097	Industry
Transport Residential	24	38	40	42	42	44	44	55	55	61	68	74	70	85	101	81	91	77	79	74	81	81	77	77	78	Transport Residential
Commerce & public services	15	23	29	31	31	30	31	24	30	33	37	37	50	46	50	38	17	26	25	32	25	24	23	25	25	C ommerce & public servi
Others	76	66	91	120	127	139	148	135	139	145	145	146	147	155	158	164	166	163	125	111	120	123	96	93	90	Others
S Orimany and my reserve	237	412	814	950	1 018	1 081	1 133	1 205	1 240	1 315	1 391	1 458	1 792	1 683	1 876	1 963	1 961	1 970	1 932	1 905	1 883	1 9 1 5	1 794	1 802	1 576	Gas
Primary energy supply Production	237	412	734	713	747	787	814	860	885	944	1 045	1 111	1 7 9 2	1 311	1 507	1 524	1 55 1	1 4 2 4	1 399	1 339	1 303	1 3 3 4	1 794	1 184	1 576 979	P rimary energy supply P roduction
Import			80	236	271	293	318	345	355	371	346	347	477	372	369	438	410	546	532	566	578	572	589	620	601	Import
E xport																										Export
Transformation sector	- 215	- 317	- 594	-729	- 783	- 822	- 845	- 887	-885	- 907	- 938	-1 127	-1 3 1 9	-1 185	-1 274	-1 189	-1 238	-1 303	-1 367	-1 346	-1 333	-1 439	-1 262	-1 268	-1 149	Transformation sector
Power generation	- 175	- 313	- 587	- 722	- 776	- 815	- 834	- 875	-873	- 895	- 925	- 944	-1 043	- 883	- 946	- 967	-1 016	-1 058	-1 122	-1 087	-1 072	-1 105	-1 036	-1 035	- 913	Power generation
inal energy consumption	11	33	58	65	73	83	98	85	94	110	133	150	158	189	214	224	231	253	254	243	243	235	209	217	336	Final energy consumption
Industry	11	33	58	65	73	83	97	83	90	101	105	97	91	103	111	111	114	141	152	153	162	163	158	175	291	Industry
Transport		0.1	0.1	0.1	0.3	0.5	1.1	2.1	3.4	8.7	27	53	67	85	103	113	117	112	102	90	81	72	51	41	45	Transport
Residential Commerce & public services														0.1						0.1	0.1					Residential
Others														0.1						0.1	0.1					Commerce & public servi Others
tricity																										Electricity
ower generation	159	288	346	369	392	421	413	476	499	516	531	534	574	558	617	607	628	664	676	668	675	710	668	680	689	Power generation
Thermal	141	264	324	346	366	395	382	406	421	435	452	455	500	468	522	561	583	612	584	563	549	572	542	560	548	Thermal
Hydro	18	24	22	23	27	26	22	21	29	29	26	26	20	29	31	20	16	14	13	17	28	23	17	17	23	Hydro
Nuclear Others							9.2	49	49	52	53	54	55	60	64	26	30	38	78	87	98	115	109	103	117	Nudear Others
	120	255	24.7	222	200	200																			- 1	
inal energy consumption Industry	138 65	256 118	317 145	332 151	366 170	390 182	421 198	440 209	464 218	480 220	488 207	487 204	538 229	535 228	582 242	591 247	607 251	653 277	686 289	698 295	710 294	733 289	708 271	724 289	749 295	Final energy consumption Industry
Transport	0.5	110	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.5	0.2	0.2	0.3	0.4	0.4	0.6	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	1.0	Transport
Residential	29	53	65	69	75	79	89	92	97	101	104	109	120	118	132	136	141	149	159	161	163	178	191	196	194	Residential
Commerce & public services	44	85	106	112	121	128	131	136	146	157	176	172	187	187	207	207	213	225	237	240	251	264	244	237	258	Commerce & public servi
Others	0.3	0.4	0.6	0.6	0.7	8.0	2.6	2.9	3.2	1.0	1.0	1.1	1.2	1.1	1.4	13	1.5	1.4	1.0	1.1	1.3	1.7	1.5	1.4	1.2	Others

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	2022	
Population (million) *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	71.70	Population (million) 1
Gross domestic product 13																										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	450	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 0 7 4	1 085	1 119	1 157	1 2 0 6	1 257	1 283	1 205	1 2 2 3	1 488	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	496	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 5 6 9	4780	4827	4 759	5 082	5 092	5 426	5 5 3 8	5 562	5 709	5 879	6 099	6 336	6 454	6 048	6 128	6 276	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	20 753	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 9 3 5	4 3 2 8	4 154	4 996	5 397	5 749	6 041	5 822	5 709	5 854	6 4 3 7	7 125	7 629	7 002	7 0 6 1	6 913	Nominal (current USD)
Nominal GDP & its components (billion of current THB) 11																										Nominal GDP & its components (billion of current THB) "1
Gross domestic product	2 184	4 2 1 8	5 070	5 345	5 770	6 317	6 954	7 614	8 401	9 0 7 6	9 707	9 659	10 808	11 307	12 357	12 9 15	13 230	13 743	14 590	15 489	16 373	16 889	15 661	16 167	17 378	Gross domestic product
Household final consumption expenditure	1 235	2 1 6 4	2 744	2 993	3 211	3 514	3 886	4 252	4 5 7 4	4769	5 2 0 7	5 125	5 639	5 988	6 583	6 787	6 959	7 057	7 297	7 5 7 9	8 005	8 406	8 308	8 455	9 481	Household final consumption expenditure
General government final consumption expenditure	205	475	688	720	760	817	912	1 040	1134	1 2 6 4	1 3 9 2	1 543	1 708	1 825	2 021	2 1 1 3	2 238	2 353	2 461	2 524	2 648	2 731	2 787	2 9 5 2	3 080	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 2 5 5	2 3 1 0	2 5 6 7	2 232	2 593	2 921	3 3 3 6	3 2 7 8	3 263	3 371	3 460	3 5 7 9	3 731	3 812	3 635	3 8 0 5	4 060	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	776	Stock change
Exports of goods and services	745	1 752	3 287	3 381	3 499	3 887	4 588	5 208	5 7 6 9	6 2 5 1	6 9 3 2	6 224	7 186	8 011	8 521	8 675	9 049	9 296	9 786	10 327	10 616	10 052	8 065	9 480	11 359	Exports of goods and services
Imports of goods and services	909	2 0 3 4	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 3 9 8	9 170	8 473	7 252	9 475	11 729	Imports of goods and services
Real GDP & its components (billion of 2019 THB) *1																										Real GDP & its components (billion of 2019 THB) *1
Gross Domestic Product	3 418	5 0 6 9	5 254	5 435	5 770	6 184	6 573	6 849	7 189	7 580	7710	7 657	8 232	8 302	8 9 0 3	9 142	9 232	9 521	9 849	10 260	10 693	10 919	10 257	10 410	10 676	Gross Domestic Product
Household final consumption expenditure	1 899	2 7 5 6	2 855	3 023	3 211	3 447	3 703	3 859	3 9 6 7	4 0 1 4	4 128	4 091	4 314	4 393	4715	4760	4 785	4 910	5 051	5 2 0 7	5 446	5 661	5 617	5 651	5 999	Household final consumption expenditure
General government final consumption expenditure	414	570	716	735	760	799	830	896	917	995	1 0 4 4	1 153	1 256	1 302	1 3 9 6	1 4 1 7	1 457	1 494	1 526	1 530	1 571	1 596	1 617	1 677	1 679	General government final consumption expenditure
Gross fixed capital formation	1 547	2 5 3 5	1 169	1 190	1 264	1 424	1 650	1 885	1 9 3 5	1 9 6 9	2 0 1 5	1 796	2 004	2 102	2 3 2 7	2 3 0 3	2 253	2 351	2 419	2 463	2 560	2 611	2 486	2 5 6 3	2 621	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	238	Stock change
Exports of goods and services	1 1 7 8	2 2 7 6	3 305	3 304	3 499	3 819	4 377	4 717	5 2 2 6	5 691	6 047	5 313	6 068	6 645	6 8 8 9	7 0 6 2	7 086	7 175	7 368	7 7 5 0	8 010	7 773	6 243	6 9 3 6	7 362	Exports of goods and services
Imports of goods and services	1 449	2 9 1 6	2 908	2 951	3 134	3 482	4 189	4 867	5 011	5 221	5 8 1 6	4 608	5 666	6 368	6 727	6 840	6 478	6 478	6 414	6 813	7 377	6 995	6 022	7 091	7 349	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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	6.4	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	34.6	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	60.1	Services, etc.
Industrial Production Index (2010=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	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.	NA.	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.A	69.0	65.0	68.1	80.3	96.2	110.9	129.7	153.9	177.8	152.A	193.3	222.6	229.1	228.5	227.5	214.3	215.4	236.6	253.0	246.3	231.6	272.0	287.A	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	301.0	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	312	26.7	12.2	0.0	0.0	17.2	26.1	35.8	32.6	22.4	26.7	40.4	32.4	13.5	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	222	11.5	9.4	-4.9	-8.8	11.6	27.8	43.4	44.0	28.5	38.3	20.9	-10.3	-15.7	Current account
Overall balance	1.8	8.4	-1.1	2.6	4.1	0.4	6.4	0.2	9.7	15 <i>A</i>	18.2	23.6	35.3	1.1	8.1	-11.0	-42	11.0	23.3	33 <i>A</i>	15.6	23.5	9.3	-15.2	-8.6	Overall balance
Foreign exchange rate (THB/USD) "	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	3129	31.98	35.06	Foreign exchange rate (THB/USD) 11
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	10.91	PPP conversion factor, GDP (THB/USD) 11
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	162.8	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.	N.A.	Producer Price Index (2010=100) ²
Consumer Price Index (2010=100)	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	120.6	Consumer Price Index (2010=100) ¹²
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	72	2.7	1.0	3.1	3.4	4.2	42	2.1	-6.1	1.5	2.5	Real GDP
Population	1.7	1.4	1.0	0.9	0.9	0.9	0.8	0.8	0.8	8.0	8.0	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	0.1	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.	NA.	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	6.1	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

*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)

Energy prices in Thailand

IMPORT PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	THB										20.15	2020	2021	
Exchange Rate	/ US Dollar	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05	31.29	32.15	35.22
Coal and Coal Products														
Coking Coal	THB/tonne	13 999	15 417	17 980	13 193	12 902	12 181	11 224	6 506	18 565	17 183	13 565	18 793	21 093
Anthracite	THB/tonne	4 186	6 679	5 853	5 180	4 526	4 022	4 279	4 145	4 398	4 506	3 761	4 360	12 661
Other bituminous coal	THB/tonne	2 349								2 685				
Sub-bituminous Coal	THB/tonne	2 349	2 916	2 711	2 583	2 684	2 360	2 267	2 599	2 734	2 685	2 377	2 751	4 512
Lignite	THB/tonne	15 493	17 155	15 156	13 860	13 751	14 502	1 329	1 028	942	907	972	963	1 153
Peat														
Patent Fuel														
Coke	THB/tonne	13 999		17 980	12 902	12 902	11 252	11 252	13 824	17 183	17 183	13 565	18 793	21 093
Coal Tar														
BKB/PB	THB/tonne	1 978		19 163	1 759	1 759	1 572	1 572	1 912	1 707	1 707	1 401	2 245	4 3 7 3
Oil and Oil Products														
Crude Oil	USD/BBL	79.47	110.19	113.94	109.69	102.25	54.28	43.84	55.49	73.31	67.58	46.04	71.53	107.21
Natural Gas Liquids														
Ethane														
LPG	USD/BBL				107.53	75.39								
Naphtha														
Motor Gasoline	USD/BBL				120.68	119.96								
Aviation Gasoline	USD/BBL				127.19	196.82								
Gasoline Type Jet Fuel														
Kerosene Type Jet Fuel	THB/L	37.91												
Other Kerosene														
Gas/Diesel Oil	USD/BBL*	21.66			114.0	121.18								
Fuel Oil	USD/BBL*	15.66			109.48	121.42								
White Spirit SBP														
Lubricants														
Bitumen														
Paraffin Waxes														
Petroleum Coke														
Natural Gas														
Natural Gas	THB/scf	7.16			11.17			5.72						
Liquefied Natural Gas	THB/tonne									416.01				
Compressed natural gas														
Electricity	THB/kWh	1.0			1.28	1.51								
Other Energy Products														
Charcoal	THB/tonne	3 030	3 210	3 473	3 297	3 561	3 847	4 551	4 531	4 676	4 600	4 030	4 585	
Agricutural waste **	THB/tonne	947	3 964	2 498	3 459	2 250	2 889	3 431	1 997	1 860	1 939	2 085	1 984	

THB/L in 2010

WHOLESALE PRICES

	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Currency	THB													
Exchange Rate	/ US Dollar	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05	31.29	32.15	35.22
Coal and Coal Products														
Coking Coal														
Anthracite	THB/tonne				4 886									
Other bituminous coal														
Sub-bituminous Coal	THB/tonne				2 533									
Lignite	THB/tonne	523			1 328									
Peat														
Patent Fuel														
Coke	THB/tonne				13 608									
Coal Tar														
BKB/PB	THB/tonne				1 980									
Oil and Oil Products														
LPG	THB/kg	13.69	13.69	13.69	13.69	13.69	18.14	16.99	17.27	17.77	18.38	16.07	15.38	18.63
Motor Gasoline	THB/L	31.62		35.94		46.73	27.60	31.80	27.15	28.96	25.53			
Unleaded premium 95	THB/L	36.06	28.99	41.03	44.52	44.28	31.50	28.75	31.29	33.33	31.98	25.38	32.54	42.96
Unleaded premium 91	THB/L	34.47	37.76	39.61	37.07									
Gasohol 95 (E10)	THB/L	30.57	34.80	36.51	37.40	37.29		22.72	25.23	26.89	25.53	19.45	25.98	34.72
Gasohol 95 (E20)	THB/L	26.49	29.60	31.45	31.72	32.41		19.78	22.0	23.46	22.44	16.83	22.71	32.62
Gasohol 91 (E10)	THB/L	28.62	31.89	34.06	35.65	35.95		22.44	25.02	26.51	25.11	19.03	25.55	34.26
Gasohol 95 (E85)	THB/L							13.57	15.48	15.83	15.79	14.70	18.26	27.56
Aviation Gasoline	11122							15.57	15.40	15.05	15.75	14.70	10.20	27.50
Gasoline Type Jet Fuel	1													
Kerosene Type Jet Fuel	THB/L	27.50												
Other Kerosene	THB/L	23.03	29.56	30.31	29.23	28.39	18.74	16.68	19.05	22.65	20.32	13.55	20.35	34.0
Gas/Diesel Oil	THB/L	26.77	27.84	28.36	27.90	27.34	22.0	21.38	23.96	26.47	24.47	20.34	26.08	31.53
Low sulphur diesel	IIIDE	20.77	21.04	20,30	27.90	27.54	22.0	21,30	25.90	20.47	24.41	20.54	20.00	31,33
Fuel Oil	THB/L	16.80	22.15	23.31	21.39	20.59	11.65	9.84	12.87	15.32	12.95	9.18	15.0	20.54
Lubricants	IIIDE	10.00	22.13	23,31	21,33	20.39	11.03	5.04	12.07	13,32	12.93	9,10	13.0	20.54
Natural Gas	+													
Natural Gas	THB/million Btu	224.00			204.00									
	I HD/Million blu	321.00			394.00									
Liquefied Natural Gas	TUDA			40.50										
Compressed Natural Gas	THB/kg	8.50		10.50										
Electricty	7.15.114													
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	
Pad dy 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

 $^{^{\}star\star} \, \text{Including: Fuel Woods,Wood Pellets, Other; Sawdust and Wood Waste and Scrap, not Agglomerated, Chipwood Waste and Chipwood Waste and Chipwood Waste and Chipwood Waste Agglor Waste Aggl$

^{**} Including : Straw,Cop Maize,Saw Dust,Fiber /Shell /Empty bunches Palm,Root Para Rubber, Cassava Pulp,Shell /Husk Coconuts

United
States

Energy balance table of United States

2022

											Petajoules											
		Coal	Crude oil			Petrole	um products								T		Other		Electricity and		Total	
	Coal	products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear C	Seothermal	Solar	Wind	renewables ¹	Others ²	heat	Total	renewables	
Production	12 072		32 330								35 785	924	8 767	398	820	1 581	4 218	176		97 071	7 941	Production
nport	137	1.8		3 051	1 306	259	416	476	243	351	2 944						79		205	21 116	79	lm port
xport	-2 127	- 61	-8 395	-9 525	-1832	- 376	-2 499	- 227	-2 677	-1 914	-6 720						- 147		- 57	-27 031	- 147	Export
ternational marine bunkers				- 676			- 241	- 435									-5.5			- 682	-5.5	International marine bunkers
nternational aviation bunkers				- 960		- 960														- 960		International aviation bunkers
Stock changes	-8.9	1.3		-2.1	45	1.4	58	- 31	- 92		283					4 504	- 10			1 463	- 10	Stock changes
otal primary energy supply	10 074	- 58		-8 113	- 481	-1 075	-2 267	- 217	-2 526	-1 545	32 292	924	8 767	398	820	1 581	4 135	176	148	90 979	7 857	Total primary energy supply
ransfers	0.400	200	-6 161	6 584	313	4.3	95	-0.1	3 629	2 543	10.000	004	0.707	200		4.504	222	450	40.504	423	4 470	Transfers
otal transformation sector	-9 489	226		33 696	15 374	3 311	9 784	405	509		-12 662	- 924	-8 767	- 383	- 688	-1 581	- 602			-20 044	-4 178	
Main activity producers	-8 896	-6.0		- 344		-0.8	- 97	- 150		- 96	-11 886	- 919	-8 767	- 383	- 535	-1 580	- 380	- 78		-18 016	-3 798	Main activity producers
Autoproducers	- 34	- 14		- 62			-2.5	-1.3		- 58	- 655	-4.3			- 153	-1.1	- 222	- 71	762	- 454	- 380	'
Gas processing	- 72		25.452	24 404	45.074	2 240	0.004	550	500	4.400	47									- 25		Gas processing
Petroleum refineries	400	0.47	-35 453	34 101	15 374	3 312	9 884	556	509	4 466										-1 352		Petroleum refineries
Coal transformation	- 486	246									- 168									- 240 43		Coal transformation Other transformation
Other transformation		20	211	4 470	20	4.7	07	22		1.022							1.0		2.010		10	
osses & own use iscrepancy	- 161	- 39	1 569	-1 179 97	- 28	-1.7	- 87 97	- 23	-6.9	-1 032	-2 891 - 597						-1.2 - 36		-2 018	-6 129 872	-1.2 - 36	
otal final consumption	424	129		31 085	15 177	2 239	7 622	165	1 605	4 277	16 142			15	131		3 495	26	14 651	66 100	3 642	Total final consumption
nal final energy consumption	424	129		25 567	15 177	2 239	7 574	165	329	84	15 469			15	131		3 495	26		59 909	3 642	
ndustry sector	410	129		905	5.7	2 233	668	121	37		5 815			13	131		1 266	15		11 762	1 266	63 .
Mining and quarrying	410	12.	'	79	5.7		49	24	31	14	88						0.7	13	140	307	0.7	Mining and quarrying
Construction				531	3.1		515	24	16		234						7.2		275	1 046	7.2	
Iron and steel	4.6	105		9.7			3.8	5.6	0.3		241						0.1		217	577	0.1	Iron and steel
Chemical & petrochemical	59	100	'	105			42	41	4.1	18	2 396						3.3	8.0		3 097	3.3	
Non-ferrous metals	33			5.3			0.7	41	0.3	4.2	159						3.3	0.0	146	311	5.5	Non-ferrous metals
Non-metallic minerals	180			47			13	3.8	0.8	30	401						16		161	806	16	Non-metallic minerals
Transportation equipment				19			2.2	16	0.8	-	159						0.2		179	357	0.2	Transportation equipment
Machinery	2.2			14			5.7		6.1	2.5	227						0.1		361	605	0.1	Machinery
Food, beverages and tobacco	107			21			11	7.4	3.1	2.0	766						24		389	1 308	24	,
Pulp, paper and printing	28			23			2.9	19	1.2	0.4	649						1 088	6.9		2 054	1 088	
Wood and wood products				16			9.1	4.0	3.0		61						118		79	274	118	
Textiles and leather	0.3			10			3.1	4.0	5.0		29						110		43	73	110	Textiles and leather
Non-specified industry	29	24		35			14		1.6	19	404						7.9		447	947	7.9	
Fransport sector	23			23 029	14 945	2 239	5 820	23	2.4		1 257						1 558		60	25 903	1 558	
Domestic air transport				2 261	22	2 239	3 020	23	2.4		1231						1 330		00	2 2 6 1	1 330	Domestic air transport
Road				19 985	14 783	2 233	5 200		2.4		64						1 5 1 7		34	21 599	1 5 1 7	Road
Rail				463	14 7 0 3		463		2.4		04						32		26	522	32	
Inland waterways				320	140		157	23									8.6		20	329	8.6	
Non-specified transport				320	140		151	23			1 193						0.0			1 193	0.0	Non-specified transport
Other sector	14			1 633	227		1 086	21	289	9.3	8 398			15	131		672	11	11 369	22 243	818	
Residential	'-			622	221		419	21	194	8.6	4 884			15	57		546	"	5 431	11 554	618	Residential
Commerce and public services	14			528	125		311	21	72		3 452			.5	74		47	11		9 022	121	
Agriculture				483	102		357	0.6	23		62						79		263	887	79	
Fishery				-100	102		551	0.0	23										200	001	, ,	Fishery
Non-specified																			780	780		Non-specified
on-energy				5 518			48		1 276	4 194	673									6 191		Non-energy
37	•										ricity and heat	outout										91
ectricity generated (GWh)	909 427	3 875		42 513		57	10 083	15 044		8 854	1740 421	256 601	803 669	19 142	187 071	439 270	57 147	13 766		4472 902	959 232	Electricity generated (GWh)
Electricity plants	892 779	3 0/.	,	30 292		57	9 718	13 507		6 607	1518 032	256 601	803 669	19 142	187 071	439 270	27 006	9 560		4183 423	929 091	Electricity plants
CHP plants	16 648	3 875		12 221		31	365	1537		2 247	222 389	230 001	003 009	13 142	10/ 0/1	403 210	30 141			289 479	30 141	
at generated (PJ)	15	3 07.		30			303	2		3	331						30 141			419	30 141	· ·
eat generated (PD) Heat plants	13			30				2		3	331						3/	0		419	57	Heat plants
CHP plants	15			30				2		2	331						37	6		419	37	* .

Notes

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

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

Energy balance table of United States

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2021											Petajoules											
						Petrole	eum products				,											
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	11 743	if(30 383								34 005	913	8 853	395	682	1 378	4 173	184		92 710	7 541	Production
Import	116	3.1	14 450	3 593	1 617	342	626	442	234	332	2 818						91		191	21 262	91	Import
Export	-2 097	- 55	-7 243	-8 762	-1754	- 248	-2 270	- 221	-2 506	-1764	-6 677						- 133		- 50	-25 018	- 133	Export
International marine bunkers				- 724			- 236	- 489									-5.4			- 729	-5.4	International marine bunkers
International aviation bunkers				- 843		- 843														- 843		International aviation bunkers
Stock changes	922	3.4	762	352	60	21	171	34	67	-0.3	129						3.8			2 173	3.8	Stock changes
Total primary energy supply	10 683	- 48	38 352	-6 384	- 77	- 727	-1709	- 234	-2 205	-1 432	30 275	913	8 853	395	682	1 378	4 129	184	142	89 555	7 497	Total primary energy supply
Transfers			-5 527	5 888	225	3.3	74		3 276	2 310										361		Transfers
Total transformation sector	-10 230	242	-33 654	31 885	14 949	2 692	9 158	393	465	4 226	-11 826	- 913	-8 853	- 382	- 559	-1 378	- 626	- 160	16 105	-20 349	-3 857	Total transformation sector
Main activity producers	-9 584	-7.3		- 288		-0.9	- 80	- 107		- 99	-11 073	- 908	-8 853	- 369	- 432	-1377	- 431	- 128	15 381	-18 071	-3 518	Main activity producers
Autoproducers	- 35	- 15		- 75		-0.1	-2.1	-0.5		- 72	- 641	-4.4		- 12	- 127	-1.0	- 195	- 32	724	- 413	- 340	Autoproducers
Gas processing	- 74										48									- 26		Gas processing
Petroleum refineries			-33 854	32 247	14 949	2 693	9 241	501	465	4 397										-1 608		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	- 986	-2 859						-2.9		-2 194	-6 233	-2.9	Losses & own use
Discrepancy	- 36	0.5	828	85			85				- 114						- 85			679	- 85	Discrepancy
Total final consumption	418	150		30 341	15 069	1 967	7 523	138	1 525	4 118	15 476			14	123		3 415	24	14 053	64 012	3 552	Total final consumption
Total final energy consumption	418	150		25 031	15 069	1 967	7 478	138	312	66	14 799			14	123		3 415	24	14 053	58 025	3 552	Total final energy consumption
Industry sector	403	150		843	5.6		650	96	35	56	5 678						1 336	18	3 205	11 634	1 336	Industry sector
Mining and quarrying				72	5.6		48	18			95						1.1		136	304	1.1	Mining and quarrying
Construction				516			501		15		235						11		285	1 048	11	Construction
Iron and steel	5.9	124		9.4			3.7	5.5	0.3		264						0.1		214	617	0.1	Iron and steel
Chemical & petrochemical	63			84			41	25	3.9	15	2 186						3.5	8.4	528	2 874	3.5	Chemical & petrochemical
Non-ferrous metals				6.5			0.7		0.3	5.4	156								144	306		Non-ferrous metals
Non-metallic minerals	166			39			12	3.7	0.8	23	376						24		149	754	24	Non-metallic minerals
Transportation equipment				18			2.1	15	0.8		162						0.2		183	363	0.2	Transportation equipment
Machinery	2.0			15			5.5		5.8	3.3	243						0.1		375	635	0.1	Machinery
Food, beverages and tobacco	105			21			10	7.2	2.9		815						23	0.1	370	1 334	23	Food, beverages and tobacco
Pulp, paper and printing	30			22			2.8	17	1.2	0.6	624						1 120	7.7	259	2 063	1 120	Pulp, paper and printing
Wood and wood products				16			8.8	3.9	2.9		62						144		82	304	144	Wood and wood products
Textiles and leather	0.9										29								45	75		Textiles and leather
Non-specified industry	30	26		25			14		1.5	9.6	431						9.2	1.6	436	958	9.2	Non-specified industry
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
Non-specified transport											1 112									1 112		Non-specified transport
Other sector	14			1 589	225		1 059	21	275	9.5	7 954			14	123		609			21 111	746	Other sector
Residential				601			408		185	8.8	4 644			14	49		474		5 365	11 147	537	Residential
Commerce and public services	14			516	124		303	20	69	0.7	3 248				74		70	6.2	4 797	8 725	144	Commerce and public services
Agriculture				472	102		348	0.6	22		62						65		206	805	65	Agriculture
Fishery																						Fishery
Non-specified																			434	434		Non-specified
Non-energy				5 310			44		1 213		677	output								5 987		Non-energy
Electricity generated (GWh)	987 592	3 969		36 125		87	7 857	10 835		9 305	1634 090	253 479	811 551	19 077	151 324	382 814	59 581	14 457		4354 059	866 274	Electricity generated (GWh)
Electricity generated (GVVII)	969 595	54		24 608		66	7 630	9 497		7 074	1409 454	253 479	811 551		151 324	382 814	28 127			4059 908	834 820	Electricity generated (Gvvn) Electricity plants
CHP plants	17 997	3 915		24 608 11 518		21	227	1 338		2 231	224 637	233 419	011331	19077	131 324	302 014	31 454			4059 908 294 151	31 454	CHP plants
Heat generated (PJ)	17 997	2 212		29		41	221	1 330		3	335						31 434			430	31434	Heat generated (PJ)
Heat generated (PJ) Heat plants	13			29				1		5	333						41	10		450	41	. ,
Heat plants CHP plants	15			29				1		3	335						41	10		430	44	Heat plants CHP plants
one plants	15			29				1		3	333						41	10		430	41	one plants

Notes:

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

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

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Major energy indicators of United States

	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	etajoules 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Total	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 43 1	91 451	90 468	90 099	92 652	92 603	85 203	89 555	90 979	Total
Primary energy supply Production	69 169	69 442	69 77 1	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 03 0	84 541	80 061	83 275	90 193	96 5 56	90 304	92 710	97 071	Primary energy supply Production
Import Export	18 946 -4 631	22 448 -4 303	29 394 -4 006	30 656 -3 662	29 932 -3 593	31 661 -3 962	34 162 -4 283	35 252 -4 432	35 288 -4 747	35 232 -5 347	33 571 -6 966	30 25 6 -6 78 2	30 3 7 2 - 8 0 2 6	28 954 -10 028	26 610 -10 885	24 333 -11 149	22 948 -12 136	23 481 -12 742	24 959 -13 829	25 063 -17 763	24 465 -21 136	22 576 -23 409	19 851 -23 231	21 262 -25 018	21 116 -27 031	Import Export
Final energy consumption	49 173	51 790	58 33 2	57 221	57 242	58 071	58 842	58 890	58 7 0 9	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	59 909	Final energy consumption
Industry Transport	11 880 20 414	11 422 22 088	13 912 24 62 9	12 974 24 665	11 588 25 014	11 568 25 399	11 970 25 766	11 572 26 079	12 090 26 184	11 954 26 319	11 692 25 162	10 339 24 072	11 322 24 943	10 997 24 352	11 111 23 983	11 078 24 825	11 087 24 719	11 027 25 606	11 147 25 898	10 945 26 047	11 518 26 579	11 221 26 543	11 075 22 859	11 634 25 280	11 762 25 903	Industry Transport
Residential	8 788	10 371	11 05 6	10 813	10 964	11 355	11 150	11 374	10 614	11 193	11 215	10 993	11 3 0 9	10 974	10 053	11 067	11 333	10 7 14	10 352	10 254	11 344	11 334	11 049 8 407	11 147	11 554	Residential
C ommerce & public services Others	6 668 1 424	7 256 654	8 083 654	8 092 677	8 212 1 464	8 341 1 407	8 411 1 545	8 390 1 474	8 266 1 554	8 571 1 531	8 658 1 551	8 595 1 344	8 681 1 423	8 609 1 358	8 206 1 333	8 642 1 417	8 853 1 421	8 713 1 468	8 750 1 555	8 685 1 571	9 11 0 1 73 7	9 0 6 8 1 5 8 7	1 680	8 725 1 239	9 022 1 667	C ommerce & public services Others
Coal and peat Primary energy supply	19 236	19 793	22 253	21 918	22 229	22 182	22 943	23 293	22 947	23 152	22 764	20 29 5	21 001	20 002	17 730	18 120	18 093	15 695	14 299	13 877	13 448	11 535	9 295	10 683	10 074	C oal and peat
P ro ductio n	22 683	22 151	22 438	23 631	22 829	22 022	23 161	23 62 3	24 134	23 753	24 205	22 151	22 220	22 412	20 704	19 979	20 307	18 057	14 589	15 624	15 449	14 482	10 788	11 743	12 072	Primary energy supply Production
Import Export	69 -2 831	179 -2 368	320 -1 574	523 -1 229	451 - 992	632 -1 062	685 -1 138	728 -1 187	864 -1 192	865 -1 414	789 -1 967	525 -1 425	447 -1 981	308 -2 628	214 -3 081	208 -2 828	264 -2 370	250 -1 818	212 -1 490	169 -2 378	128 -2 841	142 -2 309	107 -1 702	116 -2 097	137 -2 127	Import 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 9 14	-13 800	-13 523	-12 899	-10 9 5 4	-8 831	-10 230	-9 489	Transformation sector
Power generation	-16 580	-18 562	-20 90 9	-20 933	-18 071	-17 737	-17 758	-17 818	-18 124	-17 594	-20 673	-18 374	-19 331	-18 200	-15 962	-16 584	-16 538	-14 233	-13 204	-12 894	-12 251	-10 326	-8 311	-9 620	-8 930	Power generation
Final energy consumption Industry	1 795 1 392	955 838	1 074 981	1 125 1 025	1 078 977	1 069 971	1 076 947	1 047 941	1 032 967	1 005 932	1 041 969	843 777	904 841	811 756	737 699	749 717	747 711	671 643	562 540	537 517	512 494	477 461	403 389	418 403	424 410	Final energy consumption Industry
Transport Residential	62	71	56	52																						Transport Residential
C ommerce & public services	101	46	37	48	91	83	104	88	64	71	72	66	63	54	38	32	36	28	23	20	18	16	14	14	14	Commerce & public services
Others Coal and peat products	240				10	15	24	18	1.0	2.0																Others Coal and peat products
Primary energy supply Production	5.1	18	64	61	66	55	146	40	62	28	40	- 21	-4.6	11	7.8	- 25	-21	- 35	1.6	- 30	- 21	- 25	- 15	- 48	- 58	P rimary energy supply
Import	20	48	99	66	85	72	180	92	106	64	94	9.1	32	37	30	3.6	2.0	3.7	6.0	1.5	3.1	3.0	4.2	3.1	1.8	Production Import
Export	- 15 578	- 20 324	- 30	-7.2 246	- 21 388	- 19 396	- 34 486	-46 487	- 42 385	- 38 494	- 51 254	- 34 205	- 38 282	- 25 273	- 25 243	- 22 278	- 25 266	- 22 235	- 26 215	- 32 251	- 30 259	- 25 238	- 18	- 55 242	- 61	Export
Transformation sector Power generation	5/8	- 99	283 - 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	189 - 22	- 23	226 - 20	Transformation sector 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	129	Final energy consumption
Industry Transport	534	316	289	258	242	292	375	265	296	293	217	142	220	218	181	189	183	146	171	175	189	168	138	150	129	Industry Transport
Residential Commerce & public services																										Residential Commerce & public services
Others																										Others
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	39 834	C rude oil & NGL P rimary energy supply
P ro ductio n	18 110 14 697	16 657 17 546	15 307	15 171	15 072	14 686	14 197	13 504	13 3 0 6	13 291	13 102	14 048 22 449	14 5 5 3	14 994	17 133	19 479 18 032	22 780 16 97 3	24 384	23 452	24 738 18 544	28 687	31 940 16 073	30 208	30 383 14 450	32 330	Production
Import Export	- 88	- 95	21 950 - 258	22 651 - 140	22 142 - 150	23 448 - 145	24 865 - 160	25 100 - 206	25 318 -235	25 049 - 244	24 661 - 272	- 353	22 599 - 389	21 893 - 377	20 125 - 458	- 845	-1 488	17 097 -1 896	18 304 -2 128	-3 302	18 083 -5 242	-7 085	13 947 -7 555	-7 243	14 699 -8 395	Import 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 3 15	-34 351	-34 345	-34 568	-35 45 1	-35 612	-36 032	-36 756	-37 426	-36 873	-31 767	-33 654	-35 242	Transformation sector
Petroleum refineries Petroleum products	-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	-37 077	-31 964	-33 854	-35 453	P etroleum refineries P etroleum products
Primary energy supply Import	-1 118 2 606	-1 428 1 751	- 666 3 175	- 441 3 411	- 251 3 226	- 99 3 560	151 4 150	735 4 937	-163 4716	- 317 4 524	-1 796 3 871	-2 509 3 415	-2 929 3 490	-4 015 3 136	-4 364 2 932	-4 344 2 928	-5 754 2 807	-6 029 3 129	-6 609 3 129	-7 490 3 076	-7 919 3 194	-7 804 3 414	-6 860 3 021	-6 384 3 593	-8 113 3 051	P rimary energy supply Import
E xport	-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	-9 525	Export
Transformation sector	30 405 -1 141	31 976 - 634	32 913 -2 416	32 629 -2 528	33 874 -1 110	34 181 -1 356	34 833 -1 401	34 669 -1 396	35 420 -752	35 263 - 764	35 438 - 553	33 44 5 - 47 5	34 746 - 454	33 392 - 366	33 144 - 314	33 549 - 356	34 308 - 393	34 773 - 372	35 227 - 316	35 720 - 294	36 408 - 398	35 5 14 - 3 2 4	30 334 - 358	31 885 - 362	33 696 - 405	Transformation sector
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	34 101	Power generation Petroleum refineries
Final energy consumption	24 205 1 853	24 930 1 121	27 542 1 074	27 890 1 320	27 870 1 197	28 307 1 195	29 008 1 433	29 179 1 472	28 955 1 486	28 694 1 303	27 161 1 327	25 833 1 157	26 694 1 265	25 296 849	24 516 843	25 277 854	25 07 0 74 9	26 080 811	26 236 846	26 224 769	26 73 5 82 6	26 3 62 7 0 6	22 773 761	25 031 843	25 567 905	Final energy consumption
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 5 0 5	23 648	23 793	24 20 6	24 078	20 495	22 598	23 029	Industry Transport
Residential Commerce & public services	1 104 892	1 214 682	1 33 6 69 7	1 323 715	1 252 639	1 301 719	1 272 741	1 20 5 69 9	1 020 625	1 053 609	966 573	921 659	878 640	718 544	596 446	683 447	640 412	655 488	592 557	602 474	637 465	622 460	587 478	601 516	622 528	Residential Commerce & public services
Others	603	637	590	649	623	541	680	677	729	667	635	587	654	622	599	657	62.6	621	592	585	601	496	453	472	483	Others
Primary energy supply	18 353	21 246	22 933	21 540	22 384	21 728	21 341	21 23 6	21 024	22 728	22 653	22 42 1	23 282	23 813	24 908	25 395	26 27 6	27 068	27 335	26 960	29 05 5	31 079	30 105	30 275	32 292	P rimary energy supply
P ro ductio n Import	17 510 1 472	18 195 2 754	18 713 3 675	19 186 3 865	18 476 3 896	18 715 3 837	18 146 4 149	17 650 4 223	18 074 4 071	18 837 4 489	19 669 3 866	20 08 5 3 64 4	20 7 16 3 6 3 9	22 234 3 375	23 378 3 044	23 615 2 794	25 382 2 607	26 656 2 633	26 264 2 912	26 866 2 948	29 49 0 2 79 5	33 492 2 655	32 984 2 471	34 005 2 818	35 785 2 944	Production Import
Export	- 83	- 148	- 233	- 358	- 494	- 651	- 819	- 699	- 694	- 790	- 925	-1 031	-1 095	-1 450	-1 553	-1 510	-1 452	-1 704	-2 205	-3 116	-3 549	-4 590	-5 203	-6 677	-6 720	Export
Transformation sector Power generation	-3 711 -3 758	-5 334 -5 385	-5 687 -5 732	-5 802 -5 849	-6 139 -6 188	-5 635 -5 684	-6 074 -6 118	-6 428 -6 475	-6 581 -6 631	-7 203 -7 250	-6 999 -7 046	-7 181 -7 230	-7 699 -7 749	-7 898 -7 946	-9 652 -9 521	-8 802 -8 664	-8 779 -8 642	-10 257 -10 124	-10 508 -10 372	-9 830 -9 694	-11 187 -11 049	-11 961 -11 812	-12 225 -12 105	-11 826 -11 713	-12 662 -12 541	Transformation sector Power generation
Final energy consumption	12 108	13 075	14 342	13 380	13 305	13 276	13 013	12 480	12 058	12 743	12 989	12 314	12 972	13 005	12 487	13 641	14 120	13 469	13 385	13 493	14 92 1	15 021	14 524	14 799	15 469	Final energy consumption
Industry Transport	4 602 645	4 695 686	5 774 636	5 1 6 0 6 2 4	4 741 665	4 530 597	4 602 572	4 21 0 59 3	4 340 593	4 447 631	4 387 657	3 920 61 1	4 601 683	4 663 697	4 900 740	4 837 842	5 05 1 72 1	5 097 695	5 258 728	5 219 758	5 587 898	5 572 981	5 697 1 040	5 678 1 166	5 815 1 257	Industry Transport
Residential	4 295	4 735	4 868	4 671	4 777	4 982	4 748	4716	4 2 6 4	4 619	4 771	4 65 1	4 646	4 575	4 039	4 767	4 97 1	4 5 3 9	4 279	4 341	4 91 5	4 9 4 4	4 603	4 644	4 884	Residential
C ommerce & public services Others	2 565	2 959	3 065	2 924	3 041 82	3 081 85	3 007 83	2 884 77	2 731 129	2 914 131	3 042 132	3 002 129	2 981 62	3 016 55	2 756 52	3 142 53	3 325 53	3 078 61	3 058 62	3 113 63	3 458 63	3 4 6 2 6 2	3 122 62	3 248 62	3 452 62	Commerce & public services Others
Ele ctricity	11 530	12 810	14 493	13 820	14 495	14 597	14 933	15 368	15 390	15 566	15 635	14 99 5	15 676	15 576	15 375	15 434	15 553	15 469	15 479	15 349	15 962	15 736	15 260	15 675	16 102	E lectricity Power generation
Power generation Thermal	7 963	8 815	10 376	9 9 7 8	10 290	10 406	10 660	11 08 1	10 977	11 202	11 162	10 414	11 017	10 657	10 588	10 468	10 490	10 377	10 105	9 690	10 203	9 883	9 264	9 582	9 706	Thermal
Hydro Nuclear	983 2 202	1 131 2 570	912 2 872	678 2 853	961 2 896	1 003 2 836	976 2 928	981 2919	1 051 2 938	899 3 012	924 3 016	992 2 989	944 3 020	1 158 2 957	1 003 2 884	975 2 959	941 2 990	904 2 989	971 3 024	1 089 3 020	1 064 3 029	1 043 3 036	1 034 2 963	913 2 922	924 2 893	Hydro Nudear
Others	382	295	334	311	348	352	369	388	424	453	532	600	695	804	901	1,032	1,132	1,200	1,379	1,551	1,666	1,774	1,999	2,258	2,579	Others
Final energy consumption Industry	9 481 3 120	10 951 3 749	12 598 4 112	12 442 3 781	12 801 3 148	12 906 3 217	13 090 3 231	13 434 3 233	13 495 3 245	13 857 3 295	13 787 3 215	13 121 2 870	13 638 2 975	13 606 3 066	13 416 3 045	13 558 3 047	13 640 2 95 6	13 611 2 902	13 730 2 869	13 522 2 802	14 043 2 782	13 788 2 696	13 600 2 557	13 818 3 019	14 422 3 041	Final energy consumption Industry
Transport	15	14	16	17	22	22	22	22	22	24	25	23	23	24	25	26	27	32	38	40	44	50	37	46	60	Transport
Residential Commerce & public services	3 326 3 020	3 753 3 435	4 293 4 177	4 3 3 0 4 3 1 4	4 555 4 336	4 593 4 315	4 651 4 430	4 893 4 590	4 8 6 5 4 6 7 9	5 012 4 811	4 968 4 810	4 912 4 706	5 2 0 5 4 7 8 9	5 122 4 781	4 949 4 766	5 008 4 818	5 101 4 860	5 046 4 894	5 075 4 897	4 945 4 862	5 262 4 941	5 172 4 910	5 331 4 574	5 365 4 747	5 431 4 847	Residential Commerce & public services
Others			0.6	8.0	740	760	756	694	683	715	770	610	646	614	632	659	696	737	851	872	1 014	960	1 101	640	1 043	Others

Major economic indicators of 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	2022	
Population (million) *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	333.27	Population (million) *1
Gross domestic product ³ Real term, billion USD (constant 2015)	9 8 1 1	11 136	13 754	13 886	14 121	14 516	15 075	15 600	16 034	16 3 5 7	16377	15 951	16 383	16 637	17.016	17330	17 726	18 206	18 510	18 925	19 482	19 929	19 377	20 529	21 236	Gross domestic product ³ 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	24 051	GDP, billion USD (PPP, constant 2017)
Nominal, billion USD (current)	5 9 6 3	7 6 4 0	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 2 5 4	16 843	17 551	18 206	18 695	19 477	20 533	21 381	21 060	23 3 15	25 744	Nominal, billion USD (current)
_	3303	7 040	10 231	10 302	10 323	11 430	12 217	15 055	13010	14414	14770	14470	13 043	13 000	10234	10045	17 331	10 200	10 055	13411	20 333	21 301	21 000	23313	23 144	
GDP per capita ³	20.202	41 821	48 746	48 727	49 095	50 036	51 485	52 790	53 738	54 300	53 854	51 996	52 963	53 395	54 213	54 831	55 675	56 763	57 293	58 208	59 607	60 698	58 452	61 830	63 721	GDP per capita ³
Real term (constant 2015 USD)	39 303		10 1 10		.5 055					55 886		53 515	54 510	54 954	55 797										72 165	Real term (constant 2015 USD)
GDP, PPP (constant 2017 USD)	40 451 23 889	43 042 28 691	50 170 36 330	50 150 37 134	50 529 37 998	51 498 39 490	52 989 41 725	54 332 44 123	55 308 46 302	48 050	55 427 48 570	47 195	48 651	50 066	51 784	56 432 53 291	57 302 55 124	58 421 56 763	58 966 57 867	59 908 59 908	61 348 62 823	62 471 65 120	60 159 63 529	63 636 70 219	72 103	GDP, PPP (constant 2017 USD)
Nominal (current USD)	23 009	20 091	30 330	37 134	37 990	39 490	41 723	44 123	40 302	46 0 30	40 3 / 0	47 193	40 03 1	30 000	31704	33 291	33 124	30 703	37 007	39 900	02 023	03 120	05 329	70219	11 241	Nominal (current USD)
Nominal GDP & its components (billion of current USD) 1																										Nominal GDP & its components (billion of current USD) 1
Gross domestic product	5 9 6 3	7 640	10 251	10 582	10 929	11 456	12 217	13 039	13 816	14 474	14 770	14 478	15 049	15 600	16 254	16 843	17 551	18 206	18 695	19 477	20 533	21 381	21 060	23 315	25 744	Gross domestic product
Household final consumption expenditure	3 809	4 9 6 3	6 767	7 074	7 349	7 741	8 232	8 769	9 2 7 7	9 747	10 050	9 891	10 260	10 699	11 047	11 3 6 4	11 848	12 263	12 693	13 234	13 905	14 393	14 116	15 903	17 512	Household 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 3 5 3	2 433	2 511	2 511	2 5 1 5	2 533	2 566	2 609	2 663	2 727	2 867	3 009	3 138	3 3 5 4	3 570	General government final consumption expenditure
Gross fixed capital formation	1 2 6 9	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 9 4 0	5 476	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	157	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 2 1 8	2 287	2 377	2 269	2 232	2 388	2 538	2 538	2 149	2 540	2 995	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 2 5 7	2 3 9 5	2 5 7 6	2 002	2 390	2 695	2 769	2 766	2 887	2 795	2 738	2 925	3 131	3 117	2 776	3 401	3 966	Imports of goods and services
Real GDP & its components (billion of 2019 USD) *1																										Real GDP & its components (billion of 2019 USD) 11
Gross Domestic Product	9 8 1 1	11 136	13 754	13 886	14 121	14 516	15 075	15 600	16 034	16 3 5 7	16377	15 951	16 383	16 637	17 016	17 3 3 0	17 726	18 206	18 510	18 925	19 482	19 929	19 377	20 529	21 236	Gross Domestic Product
Household final consumption expenditure	6 2 1 2	7 140	8 936	9 157	9 390	9 687	10 052	10 408	10710	10 970	10 987	10 843	11 050	11 238	11 392	11 561	11 874	12 263	12 567	12 867	13 237	13 500	13 096	14 182	14 683	Household final consumption expenditure
General government final consumption expenditure	2 001	2 0 6 4	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 6 5 5	2 688	2 778	2 839	2 877	2 856	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 5 2 6	3 4 6 9	3 253	2 713	2 997	3 123	3 3 6 3	3 520	3 674	3 860	3 841	3 989	4 201	4 320	4 155	4 4 4 4 4	4 784	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	134	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 3 7 5	2 442	2 453	2 128	2 2 5 7	2 426	Exports of goods and services
Imports of goods and services	719	1 0 0 8	1 752	1 709	1 771	1 862	2 067	2 201	2 3 4 2	2 402	2 3 5 1	2 054	2 325	2 437	2 496	2 527	2 657	2 795	2 835	2 9 6 3	3 088	3 123	2 843	3 2 4 5	3 535	Imports of goods and services
Sectoral shares of Real GDP (%)																										Sectoral shares of Real GDP (%)
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	N.A.	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	N.A.	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	N.A.	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	111.9	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	1754.3	2 065.2	Exports, f. o. b.
Imports, c.i.f.	517.0	770.9	1 259.3	1 1792	1 200.2	1 303.1	1 525.7	1 732.7	1918.1	2020A	2169.5	1605.3	1 969.2	2 266.0	2 3 3 6 . 5	2 3 2 9 . 1	2 412.5	2 315.3	2 250.2	2 408.5	2 614.2	2 567.4	2 406.9	2 935.3	3 371.8	Imports, c.i.f.
Balance of payments (billion of current USD) *2																										Balance of payments (billion 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	-1183.0	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	-971.6	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	-165.6	Overall balance
Foreign exchange rate (USD/USD) 11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	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	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	121.2	GDP Deflator (2015=100) ¹³
	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.A	106.8	108.0	107.1	108.1	110.9	113.8	115.5	116.3	126.7	135.2	Producer Prices Index (2010=100) 12
Producer Prices Index (2010=100) ² Consumer Price Index (2010=100) ³	59.9	69.9	79.0	812	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	107.1	110.1	112.4	115.2	117.2	118.7	124.3	134.2	Consumer Price Index (2010=100)
. , ,						¥ t			22.1		20.1	20.7														Growth rate (%) '3
Growth rate (%) "3	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	1.0	
Real GDP	1.1	1.2	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	1.0	-2.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	-2.8 1.0	0.2	0.4	Real GDP
Population	1.1	12	1.1	1.0	0.9	0.9	0.9	0.9	1.0	1.0	I JJ	0.9	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.5	0.3	1.0	0.2	0.4	Population
Price	3.6	2.6	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	6.8	Price
Producer prices	5.0	2.8	3.4	2.8	1.6	2.3	2.7	3.4	3.2	2.9	3.8	-0.0	1.6	3.2	2.1	1.5	1.6	0.1	1.3	2.1	2.7	1.8	1.2	4.7	0.8	Producer prices
Consumer prices	34	2.0	3.4	۷،0	1.0	2,3	2.1	3.4	3,2	2.3	0.0	-UA	1.0	3,2	2.1	1.3	1.0	V. I	1.3	2.1	2.4	1.0	1.2	4./	0.10	Consumer prices

Source *1 : World Development Indicators, World Bank (WB)

 $\ensuremath{^{\star}2}$: International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

te : 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

2022

022											Petajoules											
						Petrole	eum products				,											
	Coal	Coal products	Crude oil & NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclear	Geothermal	Solar	Wind	Other renewables ¹	Others ²	Electricity and heat	Total	Total renewables	
Production	1 023		400								287	345			102	33	398			2 589	878	Production
Import	743		437	515	84	62	206	25	90	48							0.1		12	1 708	0.1	lm port
Export	- 28		- 111	- 93	-8.7	- 34	- 23	- 16	- 10	-1.6							-5.0		-3.4	- 241	-5.0	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	70		-6.6	20	2.2	-3.0	21	0.2												84		Stock changes
Total primary energy supply	1 808		720	442	78	25	204		79	46	287	345			102	33	393		8.4	4 139	873	
Transfers			- 16	16					16													Transfers
Total transformation sector	-1 101		- 703	608	228	22	276	16	23	44	- 209	- 345			- 102	- 33	- 98		964	-1 019	- 578	Total transformation sector
Main activity producers	-1 101			-1.4			-1.0	-0.4			- 209	- 345			- 102	- 33	- 54		964	- 882	- 535	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 703	610	228	22	277	16	23	44										- 94		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	- 43			- 43	- 43	Other transformation
Losses & own use																			- 105	- 105		Losses & own use
Discrepancy	-0.2																		- 12	- 12		Discrepancy
Total final consumption	707			1 067	306	47	480	26	119	90	78						296		856	3 003	296	- ' '
Total final energy consumption	693			977	306	47		26	119	0.1	41						296		856	2 863	296	
Industry sector	687			152			120	13	19	0.1	41						214		448	1 542	214	
Mining and quarrying	15			30			30	10	15		41						214		20	65	214	Mining and quarrying
Construction	0.5			12			11		0.3										10	22		Construction
Iron and steel	51			47			40	2.4	3.8		13								67	177		Iron and steel
Chemical & petrochemical	38			8.0			5.0	1.8	1.2		17								42	106		Chemical & petrochemical
Non-ferrous metals	30			0.0			5.0	1.0	1.2		"								42	100		Non-ferrous metals
Non-metallic minerals	446			21			13	5.5	3.3		7.6						11		41	527	11	
	440							0.4	2.8								- 11				- 11	
Transportation equipment				5.5			2.3				0.6								3.2	9.3		Transportation equipment
Machinery	22			9.6			3.2	1.4	5.0		1.1						24		45	55	24	Machinery
Food, beverages and tobacco	20			7.5			5.9	1.0	0.6		1.0						34		68	130	34	. 3
Pulp, paper and printing	28			1.8			1.5		0.3		0.3						17		13	60	17	Pulp, paper and printing
Wood and wood products	0.2			2.4			2.3										12		22	36	12	
Textiles and leather	56			5.0			3.9	0.1	1.0		0.2						29		55	145	29	
Non-specified industry	33			3.0			2.0		1.0		0.1						112		61	209	112	
Transport sector				624	299	47	264	13			0.5						0.8		1.7	627	0.8	'
Domestic air transport				47		47											_			47		Domestic air transport
Road				528	299		228				0.5						0.8		1.6	530	0.8	
Rail				1.4			1.4												0.1	1.5		Rail
Inland waterways				47			34	13												47		Inland waterways
Non-specified transport																						Non-specified transport
Other sector	5.7			202	6.4		96		99	0.1							81		406	694	81	Other sector
Residential	5.6			83					83	0.1							59		274	422	59	
Commerce and public services	0.1			18			1.0		17								2.1		102	121	2.1	
Agriculture				101	6.4		95										19		19	140	19	5
Fishery																			11	11		Fishery
Non-specified																						Non-specified
Non-energy	14			89						89	37									141		Non-energy
										Elect	ricity and heat	output										
Electricity generated (GWh)	104 541			78							29 410				28 397	9 090	378			267 823	133 794	Electricity generated (GWh)
Electricity plants	104 541			78								95 929			28 397					267 823		
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
Heat mants																						

Notes

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

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

Energy balance table of Viet Nam

2021

											Petajoules											
		Cool	Crude oil			Petrole	um products										Other		Electricity and		Total	
	Coal	Coal products	& NGL	Total	Gasoline	Jet fuel	Gas/ diesel oil	Fuel oil	LPG	Other products	Gas	Hydro	Nuclea	r Geothermal	Solar	Wind	renewables ¹	Others ²	Electricity and heat	Total	renewables	
Production	991		403								264	283			100	12	392	2		2 445		Production
Import	853		430	427	37	28	202	27	90	42							0.2	2	5.1	1 715	0.2	lm port
Export	- 42		- 130	- 103	- 19	- 20	- 28	- 21	- 13	-1.8							-4.9)	-2.1	- 282	-4.9	Export
International marine bunkers																						International marine bunkers
International aviation bunkers																						International aviation bunkers
Stock changes	62		6.1	-7.9		-7.9														60		Stock changes
Total primary energy supply	1 864		709	316	18	-0.2	175	5.8	77	41	264	283			100	12	387	7	3.0	3 938	782	Total primary energy supply
Transfers			- 16	16					16													Transfers
Total transformation sector	-1 188		- 693	600	238	13	262	7.4	25	55	- 188	- 283			- 100	- 12	- 87	7	919	-1 031	- 482	Total transformation sector
Main activity producers	-1 188			-2.2			-0.6	-1.6			- 188	- 283			- 100	- 12	- 49)	919	- 903	- 444	Main activity producers
Autoproducers																						Autoproducers
Gas processing																						Gas processing
Petroleum refineries			- 693	602	238	13	262	9.0	25	55										- 91		Petroleum refineries
Coal transformation																						Coal transformation
Other transformation																	- 38	3		- 38	- 38	
Losses & own use																			- 123	- 123		Losses & own use
Discrepancy	36			- 42			- 42			-0.1							-1.2)	-3.0	-9.9		
Total final consumption	712			890		13		13	118	95	77						299		796	2774		1 2
Total final energy consumption	690			796		13		13	118	0.9							299		796	2 616		
Industry sector	684			115		10	91	6.5	18	0.5	35						206		419	1 459		
Mining and quarrying	15			22			22	0.5	10		33						200	,	19	56		Mining and quarrying
Construction	0.5			8.8			8.5		0.3										9.5	19		Construction
Iron and steel	51			35				10	3.5		11								68	165		Iron and steel
	1						31 3.8	1.2												96		
Chemical & petrochemical	38			5.9			3.8	1.0	1.1		15								38	96		Chemical & petrochemical
Non-ferrous metals				40																		Non-ferrous metals
Non-metallic minerals	442			16			9.6	2.9	3.1		6.4						9.5)	41	514		
Transportation equipment				4.5			1.7	0.2	2.6		0.5								2.8	7.9		Transportation equipment
Machinery	0.1			7.8			2.4	0.7	4.7		0.9								42	51		Machinery
Food, beverages and tobacco	20			5.6			4.5	0.5	0.6		0.8						33		63	121		Food, beverages and tobacco
Pulp, paper and printing	28			1.4			1.1		0.3		0.2						16		12	58		Pulp, paper and printing
Wood and wood products	0.1			1.8			1.8										11	I	20	33	11	Wood and wood products
Textiles and leather	56			3.9			3.0		0.9		0.2						28	3	50	138	28	Textiles and leather
Non-specified industry	34			2.4			1.5		0.9		0.1						108	}	55	200	108	Non-specified industry
Transport sector				480	250	13	210	6.6			0.3						0.5	5	0.5	481	0.5	Transport sector
Domestic air transport				13		13														13		Domestic air transport
Road				427	250		177				0.3						0.5	5	0.5	429	0.5	Road
Rail				1.0			1.0													1.0		Rail
Inland waterways				39			32	6.6												39		Inland waterways
Non-specified transport																						Non-specified transport
Other sector	6.9	•••••		200	6.0	•••••	94	***************************************	100	0.9			***************************************				92	2	376	676	92	
Residential	6.7			92					91	0.9							72		261	433		Residential
Commerce and public services	0.2			9.3			0.9		8.4								1.3		86	96		
Agriculture				99			93										19		19	136		
Fishery				55	0.0		55										13		10	10		Fishery
Non-specified																						Non-specified
Non-energy	21			94						94	42									157		Non-energy
	- 21			J4															i	137		renergy
EL 113										Elect	tricity and heat				07.701	22	22.			255.255	***	E
Electricity generated (GWh)	119 000			7								78 553			27 791					255 328		, ,
Electricity plants	119 000			7							26 312	78 553			27 791	3 344	321	I		255 328	110 009	
CHP plants																						CHP plants
Heat generated (PJ)																						Heat generated (PJ)
Heat plants																						Heat plants
CHP plants																						CHP plants

Notes:

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

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

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Major energy indicators of Viet Nam

Imany energy supply Production Import Export anal energy consumption Industry Transport Residential Commerce & public services Others Iand peat Imany energy supply Production Import Export ansformation sector Power generation anal energy consumption Industry Transport Residential Commerce & public services Others Iand peat products Imany energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others Iand peat products Imany energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others Ie oil & NGL Imany energy supply Production Import Export ansformation sector Petroleum refineries oleum products Imany energy supply Import Export ansformation sector Power generation Petroleum refineries oleum products Imany energy supply Import Export ansformation sector Power generation Petroleum refineries nal energy consumption Industry Transport Residential Commerce & public services	1990 227 243 123 -131 175 72 59 20 14 10 93 109 -18 -37 -37 -37 55 43 0.6 7.9 1.6 2.7	214 -411 321 130 106 45 26 5 15 139 196 -66 -30 -30 20 24 23 32	2000 608 1 066 372 -781 494 195 158 80 44 17 183 272 -76 -48 -48 135 98 30 6.1 1.0	2001 677 1 130 387 -847 552 220 171 93 52 17 210 304 -101 -54 -54 157 118 32 64 1.1	791 1 243 425 - 877 636 251 208 104 54 19 231 373 - 142 - 63 - 63 168 123 36 7.4 1.1	2003 853 1 353 4 38 - 924 704 276 233 120 54 20 275 445 - 170 - 93 - 93 182 130 42 8.5 1.0	2004 1 030 1 753 489 -1 169 841 358 244 154 64 21 349 641 -273 -70 -70 279 199 66 13 1.0	2005 1 051 1 864 516 -1 259 861 343 289 137 70 23 297 760 2.4 -422 -89 -89 207 156 36 14 0.9	2006 1 179 1 997 5 16 -1 297 9 37 3 79 3 17 151 67 24 379 912 2.7 -500 -147 -147 231 175 42 14 0.9	2007 1 312 2 031 646 -1 450 1 010 424 340 157 65 24 403 1 013 16 - 748 - 150 - 150 252 195 42 14 0.9	2008 1 447 1 939 646 -1 093 1 139 517 363 168 66 25 500 933 16 - 454 - 156 - 156 343 283 45 15 0.9	2009 2 1 625 2 125 654 -1 233 1 281 572 430 185 69 25 527 1 025 19 -586 -154 -154 373 312 46 15 0.9	2013 2 320 563 - 886 1 538 658 422 365 69 24 617 1 032 27 - 465 - 203 - 203 414 348 50 15 0.8	2 020 2 416 563 - 849 1 629 704 453 367 79 26 653 1 093 32 - 402 - 231 - 231 423 358 48 16 0.8	2012 : 2 060 2 457 500 - 828 1 657 727 448 379 77 26 661 994 40 - 357 - 256 - 256 405 347 45 12 0.8	2013 : 2 100 2 426 451 - 719 1 711 772 441 389 85 25 722 962 53 - 300 - 280 - 280 442 375 50 17 0.9	2014 20 2 535 2 659 5 24 6 620 1 935 943 449 416 89 38 836 963 73 -170 -356 -356 480 416 47 16 0.8	2 579 2 447 718 492 1 820 820 471 369 80 80 944 852 162 -41 -613 -613 313 271 39 2.7	2 882 2 460 931 - 458 2 015 847 522 451 87 108 1 071 807 309 - 29 - 711 - 711 342 307	2 969 2 429 1 032 - 483 2 137 910 568 438 97 124 1 086 796 344 - 52 - 703 - 703 361 334 25 1.8	2018 3 523 2 464 1 346 - 392 2 414 1 139 5 96 437 111 132 1 502 885 533 - 56 - 938 - 938 539 517 21 1.5	2019 3 956 2 433 1 910 - 341 2 584 1 262 620 437 122 143 1 878 937 1 027 - 27 -1 227 -1 227 -623 606 16 1.1	2020 4 009 2 211 2 244 - 321 2 635 1 437 521 427 111 139 2 083 890 1 285 - 21 -1 230 -1 230 829 815 13 0.3	3 938 2 445 1 715 - 282 2 616 1 459 481 433 96 147 1 864 991 853 - 42 -1 188 -1 188 690 684 6.7 0.2	4 139 2 589 1 708 - 241 2 863 1 542 627 422 121 151 1 808 1 023 743 - 28 - 1 101 - 1 101 693 687	Total Primary energy supply Production Import Export Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production Import Coal and peat products Primary energy supply Production
Production Import Export Import Import Export Import Impor	243 123 -131 175 72 59 20 14 10 -18 -37 -37 -55 43 0.66 7.9 1.6 2.7	568 214 - 411 130 106 45 26 15 139 196 - 66 - 30 - 30 109 81 0.1 20 42 3.2	1 066 372 -781 494 195 158 80 44 17 -76 -48 -48 135 98 30 6.1 1.0	1130 387 -847 552 220 171 93 52 17 210 304 -101 -54 -54 157 118 32 6.4 1.1	1 243 425 - 877 636 251 208 104 54 19 231 373 - 142 - 63 - 63 168 123 36 7.4	1 353 438 - 924 704 276 233 120 54 20 275 445 - 170 - 93 - 93 182 130 42 8.5	1 753 489 -1 169 841 358 244 154 64 21 349 641 - 273 - 70 - 70 279 199 66 13	1 864 516 -1 259 861 343 289 137 70 23 297 760 2.4 -422 -89 -89 207 156	1 997 516 -1 297 937 379 317 151 67 24 379 912 2.7 -500 -147 -147 231 175 42 14	2 031 646 -1 450 1 010 424 340 157 65 24 403 1 013 16 -748 - 150 - 150 252 195	1 939 646 -1 093 1 139 517 363 168 66 25 500 933 16 - 454 - 156 - 156 343 283	2 125 654 -1 233 1 281 572 430 185 69 25 527 1 025 19 - 586 - 154 - 154 373 312	2 320 563 - 886 1 538 658 422 365 69 24 617 1 032 27 - 465 - 203 - 203 414 348	2 416 563 - 849 1 629 704 453 367 79 26 653 1 093 32 - 402 - 231 - 231 423 358 48 16	2 457 500 - 828 1 657 727 448 379 77 26 661 994 40 - 357 - 256 - 256 405 347 45 12	2 426 451 -719 1 711 772 441 389 85 25 722 962 53 -300 -280 -442 375	2 659 524 - 620 1 935 943 449 416 89 38 836 963 73 - 170 - 356 - 356 480 416	2 447 718 -492 1 820 820 471 369 80 80 80 944 852 162 -613 313 271	2 460 931 - 458 2 015 847 522 451 87 108 1 071 807 309 - 29 - 711 - 711 342 307	2 429 1 032 - 483 2 137 910 568 438 97 124 1 086 796 344 - 52 - 703 - 703 361 334 25	2 464 1 346 - 392 2 414 1 139 596 437 111 132 1 502 885 533 - 56 - 938 - 938 539 517	2 433 1 910 - 341 2 584 1 262 620 437 122 143 1 878 937 1 027 - 27 - 1 227 - 623 606	2 211 2 244 - 321 2 635 1 437 521 427 111 139 2 083 890 1 285 - 21 - 1 230 - 1 230 829 815	2 445 1 715 - 282 2 616 1 459 481 433 96 147 1 864 991 853 - 42 -1 188 -1 188 690 684	2 589 1 708 - 241 2 863 1 542 627 422 121 151 1 808 1 023 743 - 28 - 1 101 - 1 101 693 687 5.6	Production Import Export Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
Import Export Inal energy consumption Industry Transport Residential Commerce & public services Others Iand peat imary energy supply Production Import Export ansformation sector Power generation Inal energy consumption Industry Transport Residential Commerce & public services Others Iand peat products Import Export Industry Transport Residential Commerce & public services Others Iand peat products Import Export Industry Transport Residential Commerce & public services Others Ie point Industry Transport Residential Commerce & public services Others Ie point Industry Transport Residential Commerce & public services Others Ie oil & NGL Import Export Import Export Import Export Import Export Industry Transport Export Industry Import Industry Ind	123 -131 175 72 59 20 14 10 -18 -37 -37 -37 -37 -27 -27	214 -411 321 130 106 45 26 5 15 139 196 -66 -30 -30 20 24 23 32	372 -781 494 195 158 80 44 17 -76 -48 -48 135 98 30 6.1 1.0	387 -847 552 220 171 93 52 17 210 304 -101 -54 -54 157 118 32 6.4 1.1	425 -877 636 251 208 104 19 231 373 -142 -63 -63 168 123	438 - 924 704 276 233 120 54 20 275 445 - 170 - 93 - 93 182 130 42 8.5	489 -1169 841 358 244 154 64 21 349 641 - 273 - 70 - 70 279 199 66 13	516 -1 259 861 343 289 137 70 23 297 760 2.4 - 422 - 89 - 89 207 156	516 -1297 937 379 317 151 67 24 379 912 2.7 -500 -147 -147 231 175 42	646 -1 450 1 010 424 340 157 65 24 403 1 013 16 - 748 - 150 - 150 252 195	646 -1 093 1 139 517 363 168 66 25 500 933 16 - 454 - 156 - 156 343 283 45	654 -1 233 1 281 572 430 185 69 25 527 1 025 19 - 586 - 154 - 154 - 154 - 154 - 154 - 15	563 -886 1538 658 422 365 69 24 617 1032 27 -465 -203 -203 414 348 50 15	563 - 849 1 629 704 453 367 79 26 653 1 093 32 - 402 - 231 - 231 423 358 48 16	500 - 828 1 657 727 448 379 77 26 661 994 40 - 357 - 256 - 256 405 347	451 - 719 1 711 772 441 389 85 25 722 962 53 - 300 - 280 - 280 442 375	524 -620 1935 943 449 416 89 38 836 963 73 -170 -356 -356 480 416	718 -492 1820 820 471 369 80 80 944 -613 -613 313 271 39	931 - 458 2 015 847 522 451 87 108 1 071 807 309 - 29 - 711 - 711 342 307	1 032 - 483 2 137 910 568 438 97 124 1 086 796 344 - 52 - 703 - 703 361 334	1 346 - 392 2 414 1 139 596 437 111 132 1 502 885 533 - 56 - 938 - 938 539 517	1 910 - 341 2 584 1 262 620 437 122 143 1 878 937 1 027 - 27 -1 227 623 606	2 244 - 321 2 635 1 437 521 427 111 139 2 083 890 1 285 - 21 -1 230 -1 230 829 815	1 715 - 282 2 616 1 459 481 433 96 147 1 864 991 853 - 42 -1 188 -1 188 690 684	1 708 - 241 2 863 1 542 627 422 121 151 1 808 1 023 743 - 28 - 1 101 - 1 101 693 687	Import Export Final energy consumptindustry Transport Residential Commerce & public s Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumptindustry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
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Industry Transport Residential Commerce & public services Others Island peat imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others Island peat products imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others Island peat products imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others Import Export ansformation sector Petroleum refineries oleum products imary energy supply Import Export ansformation sector Petroleum refineries nal energy consumption Industry Transport Residential	72 59 20 14 10 93 109 -18 -37 -37 55 43 0.6 7.9 1.6 2.7	130 106 45 26 15 139 196 - 66 - 30 - 30 109 81 0.1 20 4.2 3.2	195 158 80 44 17 183 272 -76 -48 -48 135 98 30 6.1 1.0	220 171 93 52 17 210 304 -101 -54 -54 157 118 32 6.4 1.1	251 208 104 54 19 231 373 - 142 - 63 - 63 168 123 36 7.4	276 233 120 54 20 275 445 - 170 - 93 - 93 182 130 42 8.5	358 244 154 64 21 349 641 - 273 - 70 - 70 279 199 66 13	343 289 137 70 23 297 760 2.4 -422 -89 -89 207 156	379 317 151 67 24 379 912 2.7 -500 -147 -147 231 175	424 340 157 65 24 403 1 013 16 - 748 - 150 - 150 252 195	517 363 168 666 25 500 933 16 -454 -156 -156 343 283 45	572 430 185 69 25 527 1025 19 -586 -154 -154 373 312 46	658 422 365 69 24 617 1 032 27 - 465 - 203 - 203 414 348 50 15	704 453 367 79 26 653 1 093 32 - 402 - 231 - 231 423 358 48 16	727 448 379 77 26 661 994 40 -357 -256 -256 405 347	772 441 389 85 25 722 962 53 - 300 - 280 - 280 442 375	943 449 416 89 38 836 963 73 -170 -356 -356 480 416	820 471 369 80 80 80 944 852 162 - 41 -613 -613 313 271	847 522 451 87 108 1 071 807 309 - 29 - 711 - 711 342 307	910 568 438 97 124 1 086 796 344 - 52 - 703 - 703 361 334 25	1 139 596 437 111 132 1 502 885 533 - 56 - 938 - 938 539 517	1 262 620 437 122 143 1 878 937 1 027 - 27 -1 227 -1 227 623 606	1 437 521 427 111 139 2 083 890 1 285 - 21 -1 230 -1 230 829 815	1 459 481 433 96 147 1 864 991 853 - 42 -1 188 -1 188 690 684 6.7	1 542 627 422 121 151 1 808 1 023 743 - 28 -1 101 -1 101 693 687 5.6	Industry Transport Residential Commerce & public s Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
Transport Residential Commerce & public services Others and peat imary energy supply Production Import Export anaformation sector Power generation Industry Transport Residential Commerce & public services Others and peat products imary energy supply Production Import Export ansformation sector Power generation Import Export Import Impor	59 20 14 10 93 109 - 18 - 37 - 37 55 43 0.6 6 7.9 1.6 2.7	106 45 26 15 139 196 - 66 - 30 - 30 109 81 0.1 20 4.2 3.2	158 80 44 17 183 272 -76 -48 -48 135 98 30 6.1 1.0	171 93 52 17 210 304 -101 -54 -54 157 118 32 64 1.1	208 104 54 19 231 373 - 142 - 63 - 63 168 123 36 7.4	233 120 54 20 275 445 - 170 - 93 - 93 182 130 42 8.5	244 154 64 21 349 641 - 273 - 70 - 70 279 199 66 13	289 137 70 23 297 760 2.4 - 422 - 89 - 89 207 156 36 14	317 151 67 24 379 912 2.7 -500 -147 -147 231 175 42	340 157 65 24 403 1 013 16 - 748 - 150 - 150 252 195 42	363 168 66 25 500 933 16 - 454 - 156 - 156 343 283 45	430 185 69 25 527 1 025 19 - 586 - 154 - 154 373 312 46 15	422 365 69 24 617 1 032 27 - 465 - 203 - 203 414 348 50 15	453 367 79 26 653 1 093 32 - 402 - 231 - 231 423 358 48 16	448 379 77 26 661 994 40 -357 -256 -256 405 347 45	441 389 85 25 722 962 53 - 300 - 280 - 280 442 375	449 416 89 38 836 963 73 -170 -356 -356 480 416	944 80 80 944 852 162 - 41 -613 -613 313 271	522 451 87 108 1 071 807 309 - 29 - 711 - 711 342 307	568 438 97 124 1 086 796 344 - 52 - 703 - 703 361 334 25	596 437 111 132 1502 885 533 -56 -938 -938 539 517	620 437 122 143 1878 937 1027 -27 -1227 -1227 623 606	521 427 111 139 2 083 890 1 285 - 21 -1 230 -1 230 829 815	481 433 96 147 1 864 991 853 - 42 -1 188 -1 188 690 684	1 808 1 023 743 - 28 -1 101 -1 101 693 687 5.6	Transport Residential Commerce & public s Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
Residential Commerce & public services Others land peat imary energy supply Production Import Export anal energy consumption Industry Transport Residential Commerce & public services Others land peat products imary energy supply Production Import Export anasformation sector Power generation Import Export anasformation sector Power generation Industry Transport Residential Commerce & public services Others Le port Import Export Import Impor	14 10 93 109 -18 -37 -37 55 43 0,6 7,9 1,6 2,7	26 15 139 196 - 66 - 30 - 30 109 81 0.1 20 4.2 3.2	44 17 183 272 -76 -48 -48 135 98 30 6.1 1.0	52 17 210 304 -101 -54 -54 157 118 32 6.4 1.1	54 19 231 373 - 142 - 63 - 63 168 123 36 7.4	54 20 275 445 - 170 - 93 - 93 182 130 42 8.5	64 21 349 641 - 273 - 70 - 70 279 199 66 13	70 23 297 760 2.4 -422 -89 -89 207 156 36 14	67 24 379 912 2.7 -500 -147 -147 231 175 42	65 24 403 1 013 16 - 748 - 150 - 150 252 195 42	500 933 16 -454 -156 -156 343 283 45	69 25 527 1 025 19 - 586 - 154 - 154 373 312 46 15	69 24 617 1 032 27 - 465 - 203 - 203 414 348 50 15	79 26 653 1 093 32 - 402 - 231 - 231 423 358 48 16	77 26 661 994 40 -357 -256 -256 405 347 45	85 25 722 962 53 -300 -280 -280 442 375 50 17	89 38 836 963 73 -170 -356 -356 480 416	944 852 162 - 41 - 613 - 613 313 271	87 108 1 071 807 309 - 29 - 711 - 711 342 307	97 124 1 086 796 344 - 52 - 703 - 703 361 334 25	111 132 1502 885 533 - 56 - 938 - 938 539 517	122 143 1878 937 1027 -27 -1227 -1227 623 606	111 139 2 083 890 1 285 - 21 -1 230 -1 230 829 815	96 147 1 864 991 853 - 42 -1 188 -1 188 690 684 6.7	121 151 1 808 1 023 743 - 28 -1 101 -1 101 693 687 5.6	Residential Commerce & public s Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
Others land peat imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others land peat products imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others le oil & NGL imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others le oil & NGL imary energy supply Production Import Export ansformation sector Petroleum refineries beleum products imary energy supply Import Export ansformation sector Power generation Petroleum refineries nal energy consumption Industry Transport Residential	10 93 109 - 18 - 37 - 37 55 43 0.6 6 7.9 1.6 2.7	15 139 196 -66 -30 -30 109 81 0.1 20 4.2 3.2	17 183 272 - 76 - 48 - 48 135 98 30 6.1 1.0	17 210 304 -101 -54 -54 157 118 32 6.4 1.1	19 231 373 - 142 - 63 - 63 168 123 36 7.4	20 275 445 - 170 - 93 - 93 182 130 42 8.5	21 349 641 - 273 - 70 - 70 279 199 66 13	297 760 2.4 -422 -89 -89 207 156 36 14	24 379 912 2.7 -500 -147 -147 231 175 42 14	24 403 1 013 16 - 748 - 150 - 150 252 195 42 14	25 500 933 16 - 454 - 156 - 156 343 283 45 15	25 527 1 025 19 - 586 - 154 - 154 373 312 46 15	24 617 1 032 27 - 465 - 203 - 203 414 348 50 15	26 653 1 093 32 - 402 - 231 - 231 423 358 48 16	26 661 994 40 -357 -256 -256 405 347 45	25 722 962 53 - 300 - 280 - 280 442 375 50 17	38 836 963 73 -170 -356 -356 480 416	944 852 162 - 41 - 613 - 613 313 271	108 1 071 807 309 - 29 - 711 - 711 342 307 33	124 1 086 796 344 - 52 - 703 - 703 361 334 25	132 1502 885 533 -56 -938 -938 539 517 21	143 1878 937 1027 -27 -1227 -1227 623 606	139 2 083 890 1 285 - 21 -1 230 -1 230 829 815	147 1 864 991 853 - 42 -1 188 -1 188 -90 684 6.7	1 808 1 023 743 - 28 -1 101 -1 101 693 687 5.6	Others Coal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
land peat imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others land peat products imary energy supply Production Import Export ansformation sector Power generation nal energy consumption Industry Transport Residential Commerce & public services Others le oil & NGL imary energy supply Production Import Export ansformation sector Power generation commerce & public services Others le oil & NGL imary energy supply Production Import Export ansformation sector Petroleum refineries obleum products imary energy supply Import Export ansformation sector Power generation Petroleum refineries nal energy consumption Industry Transport Residential	93 109 -18 -37 -37 55 43 0.6 7.9 1.6 2.7	139 196 - 66 - 30 - 30 109 81 0.1 20 4.2 3.2	183 272 -76 -48 -48 135 98 30 6.1 1.0	210 304 -101 -54 -54 157 118 32 64 1.1	231 373 - 142 - 63 - 63 168 123 36 7.4	275 445 - 170 - 93 - 93 182 130 42 8.5	349 641 - 273 - 70 - 70 279 199 66 13	297 760 2.4 -422 -89 -89 207 156 36 14	379 912 2.7 -500 -147 -147 231 175 42	403 1 013 16 - 748 - 150 - 150 252 195 42	500 933 16 - 454 - 156 - 156 343 283 45	527 1 025 19 - 586 - 154 - 154 373 312 46	617 1 032 27 - 465 - 203 - 203 414 348 50 15	653 1 093 32 - 402 - 231 - 231 423 358 48 16	661 994 40 - 357 - 256 - 256 405 347 45	722 962 53 - 300 - 280 - 280 442 375	836 963 73 -170 -356 -356 480 416	944 852 162 - 41 - 613 - 613 313 271	1 071 807 309 - 29 - 711 - 711 342 307	1 086 796 344 - 52 - 703 - 703 361 334	1 502 885 533 - 56 - 938 - 938 539 517	1 878 937 1 027 - 27 -1 227 -1 227 623 606	2 083 890 1 285 - 21 -1 230 -1 230 829 815	1 864 991 853 - 42 -1 188 -1 188 690 684	1 808 1 023 743 - 28 -1 101 -1 101 693 687	C oal and peat Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others C oal and peat products Primary energy supply Production
imany energy supply Production Import Export ansformation sector Power generation Industry Transport Residential Commerce & public services Others Iand peat products Immary energy supply Production Import Export ansformation sector Power generation Industry Transport Residential Commerce & public services Others Industry Indu	109 - 18 - 37 - 37 - 55 - 43 - 0.6 - 7.9 - 1.6 - 2.7	196 - 66 - 30 - 30 109 81 0.1 20 4.2 3.2	272 -76 -48 -48 135 98 30 6.1 1.0	304 -101 -54 -54 157 118 32 6.4 1.1	373 - 142 - 63 - 63 168 123 36 7.4	445 - 170 - 93 - 93 182 130 42 8.5	641 - 273 - 70 - 70 279 199 66 13	760 2.4 - 422 - 89 - 89 207 156 36 14	912 2.7 -500 -147 -147 231 175 42	1 013 16 - 748 - 150 - 150 252 195 42	933 16 - 454 - 156 - 156 343 283 45	1 025 19 - 586 - 154 - 154 373 312 46 15	1 032 27 - 465 - 203 - 203 4 14 3 48	1 093 32 - 402 - 231 - 231 423 358 48 16	994 40 - 357 - 256 - 256 - 405 347 45 12	962 53 - 300 - 280 - 280 442 375 50 17	963 73 -170 -356 -356 480 416	852 162 -41 -613 -613 313 271	807 309 - 29 - 711 - 711 342 307	796 344 - 52 - 703 - 703 361 334	885 533 - 56 - 938 - 938 539 517	937 1 027 - 27 -1 227 -1 227 623 606	890 1 285 - 21 -1 230 -1 230 829 815	991 853 - 42 -1 188 -1 188 690 684	1 023 743 - 28 -1 101 -1 101 693 687	Primary energy supply Production Import Export Transformation sector Power generation Final energy consumpti Industry Transport Residential Commerce & public s Others Coal and peat products Primary energy supply Production
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reasport Cessidential Commerce & public services Dhers and peat products many energy supply Production mport Cower generation all energy consumption all energy consumption dustry Transport Residential Commerce & public services Dithers Export Export Dithers Exp	43 0.6 7.9 1.6 2.7	81 0.1 20 42 3.2	98 30 6.1 1.0	118 32 6.4 1.1	36 7.4	130 42 8.5	199 66 13	156 36 14	175 42 14	195 42 14	283 45 15	312 46 15	348 50 15	358 48 16	347 45 12	375 50 17	416 47 16	271 39	307 33	334 25	517 21	606 16	815 13	684 6.7	687 5.6	Industry Transport Residential Commerce & public Others Coal and peat products Primary energy supply Production
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Commerce & public services Others and peat products many energy supply Production Import Export ansformation sector Power generation nal energy consumption industry Transport Residential Commerce & public services Others e oil & NGL imary energy supply Production Import Export ansformation sector Petroleum refineries Import Export ansformation sector Petroleum refineries Imary energy supply Import Export Imary energy supply Import Export Imary energy supply Import Imary energy energy Imary energy I	1.6 2.7	42 32	6.1	0.6	7.4	8.5	13	14	14	14	15	15	15	16	12	17	16									C ommerce & public Others C oal and peat products Primary energy supply Production
Others and peat products many energy supply Production Import Export ansformation sector Power generation and energy consumption industry Transport Residential Commerce & public services Others e oil & NGL many energy supply Production Import Export ansformation sector Petroleum refineries Ieleum products Imany energy supply Import Export Ansformation sector Power generation Power generation Petroleum refineries ansformation sector Power generation Petroleum refineries and energy consumption industry Transport Residential	2.7	3.2	0.9	0.6														2.7	2.5	1.8	1.5	1.1	0.3	0.2	0.1	Others Coal and peat products Primary energy supply Production
and peat products mary energy supply production proof export insformation sector ower generation all energy consumption idustry ransport exercises oil & NGL mary energy supply or duction mport export extended to the services of the servic	115	326	0.9	0.6	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									C oal and peat products Primary energy supply Production
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esidential ommerce & public services titlers oil & NGL nary energy supply roduction nport xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx																										Industry
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nary energy supply re duction port xport asformation sector etroleum refineries eum products nary energy supply port xport information sector ower generation etroleum refineries al energy consumption dustry ransport esid ential																									\rightarrow	Others Crude oil & NGL
roduction port sport sformation sector etroleum refineries sum products any energy supply port sport sformation sector ower generation etroleum refineries al energy consumption dustry mansport esid ential			694	714		6.0						83	278	254	264	290	345	296	314	296	535	679	691	709	720	P rimary energy supply
sport sformation sector etroleum refinerie's um products any energy supply port sport sport sport ower generation etroleum refinerie's I energy consumption dustry ansport seid ential	- 112			/ 14	708	750	855	793	733	679	635	695	639	648	715	713	743	721	645	591	526	486	394	403	400	Production
sformation sector etro leum refineries um products any energy supply port sformation sector ower generation etro leum refineries I energy consumption dustry ansport seid ential	- 112																	7.8	19	27	230	338	503	430	437	Import
Petroleum refineries leum products mary energy supply mport Export osformation sector Power generation Petroleum refineries al energy consumption dustry Transport tesidential		- 326	- 657	- 713	- 708	- 731	- 831	- 766	-733	- 642	- 586	- 570	- 341	- 352	- 395	- 359	- 397	-392	- 346	- 316	- 197	- 159	- 196	- 130	- 111	Export
leum products many energy supply mport : xport insformation sector over generation output elimination sector output all energy consumption ndustry Transport Residential												- 83	- 278	- 254	- 264	- 290	- 345	-296	- 314	- 281	- 516	- 662	- 674	- 693	- 703	Transformation sector
imary energy supply Import Export ansformation sector Power generation Petroleum refineries nal energy consumption industry Transport Residential												- 83	- 278	- 254	- 264	- 290	- 345	-296	- 314	- 281	- 516	- 662	- 674	- 693	- 703	Petroleum refineries
mport xport xport ower generation etro leum refineries al energy consumption dustry ransport teasid ential	115	107	225	254	207	44.4	424	407	510	504	574	507	452	422	204	220	30.5	457	400	5.45	420	207	200	216	442	Petroleum products
xport nsformation sector ower generation etro leum refineries al energy consumption addustry ransport Residential	115 123		325 372	354 387	397 425	414 438	424 489	497 514	510 510	581 621	574 618	597 620	453 515	423 513	381 450	330 384	396 444	457 536	486 592	545 652	430 571	387 532	306 445	316 427	515	P rimary energy supply Import
insformation sector Power generation Petroleum refineries all energy consumption ndustry Transport Residential	-0.8		- 47	- 33	- 27	- 24	- 65	-17	310	- 41	- 44	- 76	- 77	- 91	- 72	- 55	-49	- 54	- 76	- 106	- 130	- 144	- 94	- 103	- 93	Export
Power generation Petroleum refineries all energy consumption ndustry Transport Residential	- 16		- 55	- 59	- 53	- 31	- 20	-28	- 20	- 34	- 25	36	194	211	236	283	245	285	310	295	439	515	559	600	608	-
Petroleum refineries Nal energy consumption ndustry Transport Residential	- 16		- 55	- 59	- 53	- 31	- 20	-28	- 20	- 34	- 25	- 27	- 49	- 25	-5.3	-6.1	-7.3	-8.7	- 14	-1.2	-8.5	- 16	-7.7	-2.2	-1.4	Transformation sector Power generation
al energy consumption ndustry Fransport Residential												63	242	236	241	289	253	293	325	296	447	532	566	602	610	P etroleum refineries
ndustry Transport Residential	97	171	277	302	359	396	417	484	498	515	528	604	581	619	600	585	602	693	748	803	838	873	769	796	977	
ransport esidential	19		63	64	81	91	94	105	94	90	85	90	75	78	67	60	69	77	75	68	67	67	64	115	152	Final energy consump Industry
	58		157	170	207	233	243	289	317	338	361	430	422	453	448	441	449	471	521	566	591	615	517	480	624	Transport
ommerce & public services	3.7		13	18	19	22	26	30	31	30	29	34	36	37	36	36	35	63	61	65	68	71	78	92	83	Residential
	11		30	36	36	33	37	40	36	35	32	29	28	30	29	28	31	10	10	14	17	19	14	9.3	18	C ommerce & public
thers	6.1	10	14	14	16	17	18	20	21	21	21	22	20	21	20	19	18	72	80	91	95	100	95	99	101	Others
a ny ene my sunnhy	0.1	7.8	47	47	97	90	193	195	214	237	268	297	340	316	345	357	374	344	392	346	346	358	310	264	287	Gas Drimany ana my sunnh
nary energy supply roduction	0.1		47	47	97	90	193	248	278	257	277	297	340	316	345	357	374	344	392	346	346	358	310	264	287	Primary energy supply Production
port		. 10																								Import
port								-54	- 64	- 20	-9.0															Export
sformation sector	-0.1	-6.9	- 46	- 46	- 96	- 89	- 192	- 190	-204	- 214	- 246	- 271	- 319	- 281	- 285	- 296	- 313	-282	- 320	- 285	- 283	- 296	- 247	- 188	- 209	Transformation sector
ower generation	-0.1		- 46	- 46	- 96	- 89	- 192	- 190	- 204	- 214	- 246	- 271	- 319	- 281	- 285	- 296	- 313	-282	- 320	- 285	- 283	- 296	- 247	- 188	- 209	Power generation
I energy consumption		0.9	0.8	0.6	0.8	0.8	0.9	4.2	14	23	23	27	21	36	60	61	61	45	30	33	33	32	33	35	41	Final energy consump
dustry		0.9	0.8	0.6	0.8	0.8	0.9	4.2	14	23	23	27	21	36	60	61	61	44	29	32	31	30	32	35	41	Industry
ansport																		0.1	1.1	1.3	1.4	1.4	0.9	0.3	0.5	Transport
esidential																										Residential
ommerce & public services																										C ommerce & public
ers	-																								\longrightarrow	Others
ity	31		96	110	129	147	166	193	221	241	263	286	342	374	423	458	519	583	645	701	782	853	874	919	064	Electricity
er generation ermal	1 51	E3				79	103	129	148	158	169	178	242	226	233	458 270	300	380	414	390	782 479	594	573	523	483	Power generation Thermal
dro					63			63	73	82	94	108	99	147	190	187	215	202	230	309	299	238	262	283	345	Hydro
uclear	12 19	15	43 52	45 66	63 66	68	64	0.5				•														Nudear
thers	12	15	43	45									0.3	0.4		0.9		0.7		2.0				113	136	Others
al energy consumption	12	15	43	45				0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.6	0.5	3.5	0.7	1.2	2.0	3.6	21	39		130	Final energy consump
dustry	12 19	15 38	43	45		68					0.2 245	0.2 277	312	341	0.6 379	418	3.5 462	503	1.2 564	615	3.6 678	21 744	39 766	796	856	
ransport .	12 19 22 10	15 38 40 17	43 52	45 66	66	68 125 55	64	0.2	0.2	0.2 220 116														796 419		Industry
esidential	12 19 22 10 0.2	15 38 40 17 0.4	43 52 81 33 0.9	93 38 1.1	108 46 1.1	125 55 0.4	144 64 1.4	0.2 166 78	0.2 194 97	220 116 1.6	245 127 1.8	277 144	312 164	341 180	379 199	418 222	462 249	503 259	564 289	615 321	678 357	744 387	766 394	419 0.5	856 448 1.7	Transport
ommerce & public services thers	12 19 22 10	15 38 40 17 0.4 18	43 52 81 33	45 66 93 38	66 108 46	68 125 55	64 144 64	0.2 166	0.2 194	220 116	245 127	277	312	341	379	418	462	503	564	615	678	744	766	419	856 448	

Major economic indicators of Viet Nam

Part		1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Part	Population (million) *1	67.99	74.91	79.91	80.74	81.53	82.30	83.06	83.83	84.62	85.42	86.24	87.09	87.97	88.87	89.80	90.75	91.71	92.68	93.64	94.60	95.55	96.46	96.65	97.47	99.47	Population (million) *1
Part	Gross domestic product ³																										Gross domestic product 3
Section of the content of the cont		45	67	94	99	106	113	121	131	140	150	158	167	177	189	199	210	224	239	255	273	293	315	324	332	359	
Properties Pro		140	208	292	310		352	378	407	435	466	493	519	553			655	697	746	796	851		982	1 010		1 289	
Company content		6	21	31	33	35	40	45	58	66	77	99	106	147	173	196	214	233	239	257	281	310	334	347	366	410	
Methodic content production Method																											
Control Cont		663	892	1 170	1 230	1 295	1 372	1 461	1 557	1 650	1 752	1 833	1 913	2 016	2 123	2 2 1 7	2 3 1 5	2 438	2 582	2 726	2 886	3 070	3 265	3 352	3 409	3 612	
Memoral Control Cont		2 0 6 6	2 782	3 649	3 835	4 038	4 276	4 556	4 855	5 146	5 461	5 7 1 5	5 965	6 285	6 620	6 9 1 2	7 2 1 9	7 602	8 049	8 499	8 9 9 6	9 572	10 179	10 451	10 628	12 958	,
Marie Mari		l								784																	
Good consider product Good																											· · · · · · · · · · · · · · · · · · ·
Members of the contribution of the contribution contrib		42	229	442	481	536	613	715	914	1 0 6 2	1 247	1 616	1 809	2 740	3 540	4 0 7 4	4 474	4 937	5 191	5 639	6 2 9 4	7 009	7 707	8 044	8 480	9 549	
General personent flus consumption segrentials: Na. 19 8 39 39 39 39 39 39 39 39 39 39 39 39 39		N.A.	168	294	312	349	406	466	599	691	849	1 145	1 239	1 436	1 844	2 093	2 3 4 6	2 591	2 850	3 086	3 406	3 745	4 115	4 502	4 701	5 231	· ·
Considerate furniss Max Si						33					69																
Secondary Control proper services 15 25 28 28 28 29 29 29 29 29		N.A.	58	122	140	167	205	238	286	333	438	514	613	704	745	785		938				1 322	1 463		2 686		
Exposicy grows and services 19 19 75 75 28 28 28 28 28 28 28 2	1		4	9	10	11					56	76	60	66			109							132	152	170	
Internal global and allowands allowand plant of global and allowands glo	-	l	75	238	265	293	348	427	582	719	879	1 137	1 133	1 554	2 207	2 597	2 9 9 7	3 402	3 764	4 216	5 086	5 866	6 448			8 958	
Real Collect Microprotents planted growth 40 18 18 18 18 18 18 18 1		19	96	254	274	332	415	524	613	749	1 048	1 3 5 7	1 304	1 731	2 322	2 484	2 920	3 274	3 731	4 100	4 9 4 5	5 679	6 255	6 344	7 9 0 1	8 592	
Consider Product Consider Pr																											
Household for Column/file operature N. 74 78 78 78 78 78 78 78	, , ,	696	1 033	1 445	1 535	1 632	1 744	1 876	2 017	2 1 5 8	2 3 1 2	2 443	2 574	2 740	2 916	3 076	3 247	3 455	3 697	3 944	4 2 1 8	4 533	4 866	5 006	5 134	5 551	
General government freed consument real consument r				733	765	824	890	953	1 022	1 0 9 8	1 2 0 6	1 2 9 8	1 328	1 436	1 495	1 568	1 649		1 914	2 053	2 2 0 4	2 364	2 538	2 819	2 874		
Consist Standard St																148											
Section Change Na				243					412	453																	
Exercised modes and services 19 20 48 48 58 57 59 61 79 59 106 110 108 110 1	1	N.A.	11	15	17	19	21	24	31	43	67	85	62	66	68	73	78	83	88	94	100	104	108	92	99	105	
Product of Goods and services 19 19 19 19 19 19 19 1	_	l	181	462	542	598	717	901	1 061	1 180	1 3 2 8	1 5 0 9	1 433	1 554	1 721	1 992	2 3 3 8	2 608	2 938	3 345	3 9 0 5	4 462	4 761	4 607	5 2 4 5	5 572	_
Section shares of Real CODP (%) Sectio	1	91	220	456	531	614	754	920	1 050	1 1 7 6	1 492	1716	1 599	1 731	1 802	1 9 6 6	2 3 0 7	2 602	3 073	3 543	4 1 6 3	4 696	5 088	4 689	5 4 3 1	5 607	
Agriculture, Flathery and Forestry industry indu																											
Product of the content of the cont		26.8	22.0	19.6	19.0	18.6	18.1	17.5	17.0	16.5	16.0	15.9	153	14.5	14.2	13.8	13. <i>A</i>	13.1	12.5	11.9	11.4	11.0	10.5	11.3	11.4	10.9	
Services, etc. 1329 33.5 31.6 31.6 31.6 31.7 31.6 31.7 31.6 31.7 31.6 31.7 31.6 31.7 31.7 31.8 31.7 31.8 31.7 31.8 31.7 31.8 31.7 31.8 31.7 31.8		l																									
Industrial Production Index (2010-100) NA		l																									,
Exports, f. c. b. 1.6 2.4 5.4 1.5 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.5 1.6 1.5		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	100.0	106.8	105.8	105.9	107.6	109.8	107.4	111.3	110.1	109.1	103.3	104.7	0.0	
Exports, f. c. b. 1.6 2.4 5.4 1.5 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.5 1.6 1.5	External trade (billions of current USD) "1																										External trade (billions of current USD) "1
Imports, c.i.f. 2.8 8.2 15.6 16.2 19.7 25.3 3.2 3.6 4.5 6.2 8.0 6.2 8.0 6.9 8.4 10.8 11.8 13.2 14.8 13.2 14.8 15.5 17.4 17.4 11.0 10.8 16.5 21.5 30.7 17.5 25.7 17.5 25.7 17.5 25.7 17.5		2.4	5.4	14.5	15.0	16.7	20.1	26.5	32.4	39.8	48.6	62.7	57.1	72.2	96.9	114.5	132.0	150.2	162.1	176.6	215.0	243.7	264.3	282.6	335.9	371.3	
Balance of payments (billion of current USD) ² Trade balance NA NA 0.4 0.5 -1.1 -2.6 -2.3 -2.4 -2.8 -10.4 -12.8 -7.6 -5.1 -0.5 9.9 8.7 12.1 7.4 11.0 10.8 16.5 21.5 30.7 17.5 25.7 NA NA NA 1.1 0.7 -0.6 -1.9 -1.0 -0.6 -0.2 -7.0 -10.8 -6.6 -4.3 0.2 9.4 7.7 9.4 -2.0 0.6 -1.6 5.9 13.1 15.1 15.1 4.5 -1.1 Overall balance NA NA 0.8 1.1 1.5 1.3 1.9 2.5 2.9 10.8 1.5 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	-,,	I	8.2	15.6	16.2		25.3		36.8	45.0	62.7	80.7	69.9		106.8	113.8				174.8	212.9	236.9	253.4		331.6	359.1	
Trade balance NA NA 0.4 0.5 -1.1 -2.6 -2.3 -2.4 -2.8 -10.4 -12.8 -7.6 -5.1 -0.5 9.9 8.7 12.1 7.4 11.0 10.8 16.5 21.5 30.7 17.5 25.7 Trade balance Overal balance NA NA 0.8 1.1 0.7 -0.6 -1.9 -1.0 -0.6 0.2 -7.0 -10.8 -6.6 -4.3 0.2 9.4 7.7 9.4 -2.0 0.6 -1.6 5.9 13.1 15.1 4.6 -1.0 Current account NA NA 0.8 1.1 1.5 1.3 1.9 2.5 2.9 10.8 15.5 0.6 17.4 7.5 14.9 -1.1 11.4 18.4 18.4 18.2 23.5 23.5 22.8 2.0 2.2 20.0 0.6 -1.6 5.9 13.1 15.1 4.6 2.1 0.0 Current account Overal balance Foreign exchange rate (NDIUSD) 1 6538 11 038 14 168 14 725 15 280 15 510 15 7.4 15.8 15.8 15.8 15.8 15.8 15.8 15.8 15.8																											
Current account NA NA 1.1 0.7 -0.6 -1.9 -1.0 -0.6 -0.2 -7.0 -10.8 -6.6 -4.3 0.2 9.4 7.7 9.4 -2.0 0.6 -1.6 5.9 13.1 15.1 4.6 -1.1 Overal balance Foreign exchange rate (VNDIUSD)** NA NA 0.8 1.1 1.5 1.3 1.9 2.5 1.2 9 10.8 1.5 0.6 1.9 6.6 17.4 7.5 14.9 -1.1 11.4 18.4 14.4 32.5 2.3 5. 26.2 8.4 Overal balance Foreign exchange rate (VNDIUSD)** NA 3761 3 95 3 8.9 3 94 4 3 981 4 178 4 376 4 55 8 5.0 15.10 15.7 46 15.8 59 15.9 4 16.10 15.7 46.6 15.8 59 15.9 4 16.10 15.7 46.6 15.8 59 15.9 4 16.10 15.7 46.6 15.8 59 15.9 4 16.10 15.7 46.10 15.7 46.10 15.7 46.10 15.7 46.10 15.7 46.10 15.7 46.10 15.7 46.10 15.7 46.10 15.7 46.10 15.1 46.1 46.1 46.1 46.1 46.1 46.1 46.1 46		N.A.	N.A.	0.4	0.5	-1.1	-2.6	-2.3	-2.4	-2.8	-10.4	-12.8	-7.6	-5.1	-0.5	9.9	8.7	12.1	7.4	11.0	10.8	16.5	21.5	30.7	17.5	25.7	
Overall balance NA NA 0.8 1.1 1.5 1.3 1.9 2.5 2.9 10.8 1.5 0.6 1.9 6.6 17.4 7.5 14.9 -1.1 11.4 18.4 14.4 32.5 23.5 26.2 8.4 Overall balance Foreign exchange rate (VNDUSD) '' PPP conversion factor, GDP (VNDUSD) '' NA 3 761 3 985 3 89 3 944 3 981 4 17.8		l	N.A.	1.1	0.7	-0.6	-1.9		-0.6	-0.2	-7.0	-10.8	-6.6	-4.3	0.2	9.4	7.7	9.4	-2.0	0.6	-1.6	5.9		15.1	-4.6		
PPP conversion factor, GDP (VND/USD) 1 NA 3 761 3 985 3 859 3 944 3 981 4 178 4 376 4 553 4 796 5 687 6 090 6 544 7 528 7 568 7 953 8 013 7 789 7 716 7 808 7 891 7 967 8 124 7 902 7 174 PPP conversion factor, GDP (VND/USD) 1 PPP conversion factor, GDP		N.A.	N.A.	0.8	1.1	1.5	1.3	1.9	2.5	2.9	10.8	1.5	0.6	1.9	6.6	17.4	7.5	14.9	-1.1	11.4	18.4	14.4	32.5	23.5	26.2	8.4	
Price Indices GDP Deflator (2010=100) 3 6.0 22 30.6 31.4 32.8 35.2 38.1 45.3 49.2 53.9 66.2 70.3 100.0 121.4 132.4 137.8 142.9 140.4 143.0 149.2 154.6 158.4 160.7 165.2 172.0 GDP Deflator (2010=100) NA	Foreign exchange rate (VND/USD) "1	6 538	11 038	14 168	14 725	15 280	15 510	15 746	15 859	15 994	16 105	16 302	17 065	18 613	20 510	20 828	20 933	21 148	21 698	21 935	22 370	22 602	23 050	23 208	23 160	23 271	Foreign exchange rate (VND/USD) 1
Price Indices GDP Deflator (2010=100)	PPP conversion factor. GDP (VND/USD) *1	N.A.	3 761	3 985	3 859	3 944	3 981	4 178	4 3 7 6	4 5 5 3	4 796	5 687	6 090	6 544	7 528	7 5 6 8	7 953	8 013	7 789	7716	7 808	7 891	7 967	8 124	7 902	7 174	PPP conversion factor. GDP (VND/USD) 1
GDP Deflator (2010=100) 3 6.0 22 30.6 31.4 32.8 35.2 38.1 45.3 49.2 53.9 66.2 70.3 10.0 12.4 13.2 13.4 13.8 142.9 140.4 143.0 149.2 154.6 158.4 160.7 165.2 172.0 GDP Deflator (2010=100) 3 Producer Price Index (2010=100) NA.																											
Producer Price Index (2010=100) NA N		6.0	22.2	30.6	31.4	32.8	35.2	38.1	45.3	49.2	53.9	66.2	70.3	100.0	121.4	132 <i>A</i>	137.8	142.9	140.4	143.0	149.2	154.6	158.4	160.7	165.2	172.0	
Consumer Price Index (2010=100) NA. 40.2 48.1 47.9 49.7 51.3 55.3 59.9 64.3 69.7 85.8 91.6 100.0 118.7 129.5 138.0 143.6 144.6 148.4 153.6 159.1 163.5 168.8 171.9 177.3 # Growth rate (%) '3 Real GDP 5.1 9.5 6.8 6.2 6.3 6.9 7.5 7.5 7.0 7.1 5.7 5.4 6.4 6.4 5.5 5.6 6.4 7.0 6.7 6.9 7.5 7.4 2.9 2.6 8.1 Real GDP Population Price Producer prices NA.											22.5																#
Growth rate (%) "3 Real GDP 5.1 9.5 6.8 6.2 6.3 6.9 7.5 7.5 7.0 7.1 5.7 5.4 6.4 6.4 5.5 5.6 6.4 7.0 6.7 6.9 7.5 7.4 2.9 2.6 8.1 Real GDP Population 22 1.7 1.1 1.0 1.0 1.0 0.9 0.9 0.9 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.0 1.0			40.2																								 #
Real GDP 5.1 9.5 6.8 6.2 6.3 6.9 7.5 7.5 7.0 7.1 5.7 5.4 6.4 6.4 5.5 5.6 6.4 7.0 6.7 6.9 7.5 7.4 2.9 2.6 8.1 Real GDP Population 2.2 1.7 1.1 1.0	, ,																										Growth rate (%) *3
Population 22 1.7 1.1 1.0 1.0 0.9 0.9 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.0 1.0		5.1	Q 5	6.8	6.2	63	6.0	7.5	7.5	7.0	7.1	5.7	5.4	6.4	6.4	5.5	5.6	6.4	7.0	6.7	6.9	7.5	7.4	2 0	2.6	8.1	
Price Price Producer prices N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.												2															
Producer prices N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	1 -				1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0		1.0	1.0	1.0	•••			1.0		1.0		0.2	0.0	1.0	
1 roddor priodo		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	NA.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Consumer prices N.A. N.A1.7 -0.4 3.8 3.2 7.8 8.3 7.4 8.3 23.1 6.7 9.2 18.7 9.1 6.6 4.1 0.6 2.7 3.5 3.5 2.8 3.2 1.8 3.2 Consumer prices	1	N.A.	N.A.	-1.7	-0.4	3.8	3.2	7.8	8.3	7.4	8.3	23.1	6.7	9.2	18.7	9.1	6.6	4.1	0.6	2.7	3.5	3.5	2.8	3.2	1.8	3.2	1

Source *1 : World Development Indicators, World Bank (WB)

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by ESTO

: N.A. means "not available"

: VND means Dong, 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).

Total APEC

Primary energy supply table in 2022

											Petajo	ules											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Мехісо	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Primary energy																							Primary energy
Production	18 186	563	23 464	577	127 656	6.3	19 586	2 074	2 4 2 0	4 111	6 600	592	616	1 061	1 3 0 3	53 528	29	400	2 433	97 071	2 589		Production
Import	2 004	361	3 080	1 202	35 165	862	2 155	15 513	12 776	2 499	3 880	308	108	473	1 619	276	6 082	4 881	3 425	21 116	1 708	124 039	
Export	- 14 613	- 721	- 13 991	- 62	-3156	-3.3	- 10 303	- 736	- 2765	- 2 226	- 2 635	- 77	- 520	- 326	- 176	- 25 411	- 3 042	- 700	- 380	- 27 03 1	- 241	- 109 116	
International marine bunkers	- 25		-8.2	-2.8	- 245	- 242		- 200	- 485	- 35	- 24	-5.9		- 11	-4.5	- 222	- 1 937	- 59		- 682			International marine bunkers
International aviation bunkers	- 74	-1.6	- 159	- 28	- 74	- 112		- 205	- 139		- 180	- 23		- 20	- 51	- 202	- 300	- 76	- 83	- 960			International aviation bunkers
Stock change	- 152	-1.3	56	-6.9	-4974	- 19	- 290	- 19	- 95	33	5.1	5.5		18	- 72	- 43	- 37	- 12	-4.4	1 463	84		Stock change
Total	5 3 2 6	201	12 442	1 679	154 373	491	11 148	16 428	11711	4 382	7 645	799	204	1 195	2 618	27 926	794	4 4 3 5	5 391	90 979	4 139	364 305	
Coal, peat, and coal & peat products																							Coal, peat, and coal & peat products
Production	11416		1 075	0.4	93 886		13 815	16	15	90	129	63		5.2	319	7 734			143	12 072	1 023	141 802	Production
Import	15	28	175	222	5 2 5 2	164	251	4 571	2855	894	254	15		15	723		17	1 5 6 8	567	139	743	18 469	Import
Export	- 9 688		- 924	-0.8	- 354		- 9 3 5 1	- 23			-0.1	- 36		-2.3	- 157	- 5 142	-0.1	-1.5	-5.0	- 2 188	- 28	- 27 901	Export
Stock change	- 176		- 10	5.1	- 3 716	- 14	- 377	-3.9	- 13	6.2	0.4	0.3		12	- 87			- 19		-7.6	70	- 4 329	Stock change
Total	1567	28	316	227	95 068	150	4 3 3 7	4 560	2856	990	384	42		30	799	2 592	17	1 548	704	10 016	1 8 0 8	128 041	
Crude oil, NGL & petroleum products																							Crude oil, NGL & petroleum products
Production	807	203	12 115	4.6	8 571		1 3 1 0	14	52	1 044	4 157	39	50	219	3.1	21 226		0.1	290	32 330	400	82 836	Production
Import	1852	333	1 885	787	24 269	466	1 901	7 352	7634	1 1 6 9	2 089	293	108	440	890	38	5 620	2 3 0 5	2 130	17 749	952		Import
Export	- 752	- 490	- 9 728	- 62	-2512	-3.3	- 269	- 712	- 2765	- 913	- 2 626	- 41	- 74	- 131	- 19	- 14 434	- 3 042	- 698	- 368	- 17 920	- 204	- 57 764	Export
International marine bunkers	- 25		-8.2	-2.8	- 245	- 242		- 200	- 485	- 35	- 24	-5.9		- 11	-4.5	- 222	- 1 937	- 59		- 676			International marine bunkers
International aviation bunkers	- 74	-1.6	- 159	- 28	- 74	- 112		- 205	- 139		- 180	- 23		- 20	- 51	- 202	- 300	- 76	- 83	- 960		- 2 685	International aviation bunkers
Stock change	-1.1	-1.2	8.3	-8.9	-1240	-5.4	87	66	- 27	18	0.9	5.7		5.7	12	- 43	- 37	9.3		1 198	14		Stock change
Total	1807	43	4 1 1 4	690	28 770	103	3 030	6 315	4 2 7 0	1 283	3 417	268	84	503	830	6 363	303	1 482	1 970	31 722	1 162	98 528	Total
Gas																							Gas
Production	5 4 5 3	360	7 201	46	8 201		2 4 1 8	75		2 785	1 391	130	483	555	109	21 304		3.2	979	35 785	287		Production
Import	137		901	193	5 618	187		3 474	2 287	437	1 528					228	441	1 007	601	2 944			Import
Export	- 4 173	- 231	- 3 021		- 217		- 669			- 1 303	-0.3		- 446	- 192		- 5 738				- 6 720		- 22 710	
Stock change	25	-0.1	59	-3.9	- 18			- 82	- 57		3.7	-0.5		-0.7			-0.6	-2.3	-4.4	283			Stock change
Total	1 4 4 2	130	5 140	235	13 584	187	1 749	3 467	2 2 3 0	1 9 1 9	2 923	130	36	362	109	15 794	441	1 008	1 576	32 292	287	85 041	
Nuclear power																							Nuclear power
Production			952		4 5 5 8			612	1 921		118					2 481		259		8 767		19 667	Production
Hydro power																							Hydro power
Production	59		1 431	73	4 6 9 4		98	278	13	115	129	95	3.4	107	36	711		21	24	924	345	9 157	Production
Geothermal, solar, etc																							Geothermal, solar, etc
Production	452		689	452	7 746	6.3	1 945	1 080	420	76	675	265	80	175	835	73	29	116	996	7 193	533	23 837	Production

Primary energy supply table in 2021

											Petajo	ules											
	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	17855	614	22 537	543	116 722	5.3	21 286	2 242	2 194	3 935	6 448	599	597	983	1 2 7 9	54 770		422	2 630	92 710	2 445	350 839	Production
Import	1966	339	3 101	1 180	36 393	961	2 049	15 530	12 611	2 235	3 906	314	103	438	1 477	867	6 256	4 948	3 313	21 262	1 715	120 962	Import
Export	- 14 395	- 781	- 13 514	- 39	-3363	-2.6	- 12 110	- 615	- 2464	- 2 382	- 2 745	- 69	- 505	- 309	- 232	- 25 313	- 3 173	- 599	- 480	- 25 018	- 282	- 108 392	Export
International marine bunkers	- 17		-9.1	-3.0	- 287	- 269		- 204	- 442	- 27	- 18	-4.8		- 11	-3.0	- 214	- 1 792	- 62		- 729		- 4 092	International marine bunkers
International aviation bunkers	- 53	-0.8	- 92	- 19	- 94	- 129		- 168	- 111		- 125	- 14		- 13	- 22	- 202	- 89	- 76	- 30	- 843		- 2 081	International aviation bunkers
Stock change	98	0.3	147	-5.3	- 1 603	- 32	- 1 3 9 4	33	164	184	11	8.4		42	5.0	- 211	89	- 41	- 195	2 173	60	- 465	Stock change
Total	5 4 5 3	172	12 171	1 656	147 769	534	9 8 3 1	16 819	11951	3 944	7 476	834	196	1 130	2 5 0 4	29 698	1 317	4 5 9 0	5 238	89 555	3 938	356 771	Total
Coal & coal products																							Coal & coal products
Production	11468		1 051	0.7	84 784		15 532	15	16	82	129	67		3.9	310	7 422			149	11 743	991	133 764	Production
Import	12	29	198	273	5 8 0 2	172	366	4 704	2869	852	191	37		11	690	572	19	1 672	634	119	853	20 075	Import
Export	- 9866		- 799	-1.7	- 248		- 11 010	- 66			-0.1	- 35		- 24	- 205	- 5 503		-1.4	-4.3	- 2 152	- 42	- 29 959	Export
Stock change	70		19	-7.7	- 840	- 20	- 1 523	-1.7	22	24	-0.9	-5.3		38	-3.4	-0.7		- 29	- 207	925	62	- 1 479	Stock change
Total	1684	29	469	265	89 498	153	3 3 6 6	4 65 1	2 9 0 7	958	319	63		28	792	2 490	19	1 641	571	10 635	1 8 6 4	122 402	
Crude oil, NGL & petroleum products																							Crude oil, NGL & petroleum products
Production	785	236	11 712	16	8 3 2 7		1 409	16	48	1 0 6 3	4 139	43	50	222	3.6	20 811		0.1	361	30 383	403		Production
Import	1766	310	1 938	728	24 328	552	1 679	7 207	7 48 1	1 046	2 014	277	103	410	782	36	5 788	2 2 9 7	1 937	18 043	857	79 579	
Export	- 713	- 511	- 9 601	- 37	-2836	-2.5	- 333	- 549	- 2464	- 1 181	- 2 735	- 34	- 75	- 142	- 27	- 13 455	- 3 173	- 598	- 468	- 16 005	- 233	- 55 172	
International marine bunkers	- 17		-9.1	-3.0	- 287	- 269		- 204	- 441	- 27	- 18	-4.8		- 11	-3.0	- 214	- 1 792	- 62		- 724			International marine bunkers
International aviation bunkers	- 53	-0.8	- 92	- 19	- 94	- 129		- 168	- 111		- 125	- 14		- 13	- 22	- 202	- 89	- 76	- 30	- 843			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	- 121	88	-2.5	13	1 114	-1.8	823	Stock change
Total	1777	33	3 975	685	28 675	139	2 884	6 307	4 6 7 0	1 058	3 273	285	79	467	739	6 857	824	1 558	1 813	31 969	1 025	99 092	
Gas																							Gas
Production	5 140	378	6 6 9 7	42	7 735		2 483	80	2.1	2 617	1 327	143	465	460	118	23 237		3.7	1 184	34 005	264	86 381	Production
Import	187		869	178	6 242	192		3 520	2 2 6 0	337	1 695					249	445	979	620	2 818		20 590	
Export	- 3817	- 270	- 2 8 1 8		- 206		- 762			- 1 188	-0.3		- 430	- 143		- 6 258				- 6 677		- 22 569	Export
Stock change	19	0.9	100	0.9				31	- 16		13	-3.7		0.5		- 89	0.7	- 10	-1.9	129			Stock change
Total	1530		4 8 4 7	221	13 771	192	1 721	3 63 1	2 2 4 6	1 767	3 034	139	35	318		17 138	446	973	1 802	30 275	264	84 576	Total
Nuclear power																							Nuclear power
Production			1 0 1 0		4 446			772	1724		130					2 468		303		8 853			Production
Hydro power																							Hydro power
Production	53		1 382	70	4 682		89	284	11	112	124	87	3.6	115	33	771		13	17	913	283		Production
Geothermal, solar, etc	33						22					2.			33								Geothermal, solar, etc
Production	409		684	415	6 749	5.3	1 773	1 074	393	60	598	260	78	182	814	61	25	102	919	6 813	504	21 917	Production

Final energy consumption table in 2022

											Petajo	ules										
	Australia [Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New F Zealand	apua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
Total	3 108	36	7 261	1 220	81 091	265	7 027	9 702	5 410	2 212	4 401	510	145	923	1 448	16 577	401	2 062	3 379	59 909	2 863	209 950 Total
Coal, peat, and coal & peat products	113		82	11	18 719		1 740	717	347	65	67	21		26	78	365	8.1	188	356	553	693	24 150 Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 552	23	2 725	663	17 163	76	2 833	4 262	1 777	1 142	2 548	258	56	467	715	3467	130	651	1 454	25 567	977	68 506 Crude oil, NGL & petroleum products
Gas	469	0.7	2 071	71	9 7 6 6	24	496	1 152	934	350	381	57		109		4509	66	199	336	15 469	41	36 500 Gas
Electricity	795	12	1 931	290	27 186	161	1 077	3 264	1 950	606	1 080	139	15	188	329	3 4 0 8	198	938	749	14 422	856	59 593 Electricity
Others	179		452	186	8 256	3.1	880	307	402	50	325	35	74	134	326	4829		86	485	3 897	296	21 201 Others
Industry	950	6.1	1 944	464	46 527	12	3 194	3 151	1 991	797	1 339	155	39	271	298	5 146	179	1 044	1 371	11 762	1 542	82 180 Industry
Coal, peat, and coal & peat products	113		82	10	16 271		1 740	711	340	65	67	19		26	78	181	8.1	188	356	539	687	21 480 Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	190	5.5	213	163	2 935	3.2	166	690	86	81	224	20	24	61	76	376	29	65	164	905	152	6 632 Crude oil, NGL & petroleum products
Gas	259		691	39	5 742	1.3	492	445	329	347	347	43		58		1369	59	149	291	5 815	41	16 518 Gas
Electricity	283	0.6	685	169	16 126	7.0	409	1 143	1 003	304	637	47	10	110	104	1340	82	555	295	3 041	448	26 800 Electricity
Others	104		273	83	5 453	0.1	388	161	233		64	25	3.9	15	40	1879		86	265	1 462	214	10 750 Others
Transport	1 271	17	2 479	414	12 641	73	2 534	2 692	1 531	1 009	1 862	205	25	399	516	3 6 7 8	106	495	1 224	25 903	627	59 701 Transport
Coal, peat, and coal & peat products					21											2.9						24 Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 225	17	2 164	408	10 423	70	2 195	2 613	1 450	956	1 855	204	25	352	494	2402	96	489	1 097	23 029	624	52 186 Crude oil, NGL & petroleum products
Gas	18		181	0.3	1 248		0.3	0.7	39	1.5	0.6			31		935	0.1		45	1 257	0.5	3 758 Gas
Electricity	24		30	5.4	735	3.1	1.2	60	13	1.6	5.9	0.7		0.3	0.4	339	10	6.0	1.0	60	1.7	1 299 Electricity
Others	4.0		103		215	0.2	338	19	29	50		0.1		15	22				81	1 558	8.0	2 434 Others
Agriculture	104		316	18	2 090	0.1		126	74	17	177	27	4.6	7.7	7.2	371		11	91	887	140	4 469 Agriculture
Coal, peat, and coal & peat products			0.5	0.3	388							1.4				2.2						393 Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	97		233	6.2	866			116	17	15	128	15	4.3	2.3	2.5	102		2.8	90	483	101	2 281 Crude oil, NGL & petroleum products
Gas	1.1		45	8.0	8.3				0.1			0.9				57		0.2		62		176 Gas
Electricity	6.4		38	11	632	0.1		9.4	55	2.4	49	8.6	0.3	5.1	4.7	83		8.1	1.2	263	19	1 197 Electricity
Others				0.3	195			0.4	1.9			0.4		0.2		127				79	19	423 Others
Residential & commercial	782	13	2 5 1 9	314	14 451	179	1 234	3 636	1 739	356	959	120	77	242	618	6329	116	493	694	20 577	543	55 990 Residential & commercial
Coal, peat, and coal & peat products	0.1				1 586			6.4	7.3			0.6				164				14	5.7	1 785 Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	39	0.7	115	78	1 414	3.2	421	772	159	56	340	17	2.6	49	139	565	4.3	79	103	1 150	101	5 608 Crude oil, NGL & petroleum products
Gas	191	0.7	1 154	30	2 537	23	4.3	705	566	1.7	33	13		19		1929	6.5	49		8 336		15 599 Gas
Electricity	481	11	1 178	103	6 785	151	667	2 049	868	298	324	80	4.0	71	215	1 2 6 1	105	365	452	10 278	376	26 122 Electricity
Others	70		73	103	2 128	2.7	141	104	138		261	9.3	70	103	265	2409			139	798	61	6 876 Others

Final energy consumption table in 2021

											Petajo	ules											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Мехісо	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Total	3 085	36	7 002	1 114	81 062	275	5 457	9 833	5 499	1 942	3 958	511	143	891	1 398	16 877	400	2 109	3 019	58 025	2 616	205 253	Total
Coal, peat, and coal & peat products	113		85	7.0	19 407		529	765	369	58	49	22		23	82	364	7.7	219	269	568	690	23 629	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 541	22	2 635	629	18 022	83	2 571	4 265	1 870	927	2 161	257	56	451	680	3 3 4 2	132	651	1 363	25 031	796	67 483	Crude oil, NGL & petroleum products
Gas	474	8.0	1 955	68	9 840	25	517	1 171	906	365	376	60		98		4918	68	191	217	14 799	35	36 084	Gas
Electricity	779	13	1 892	275	26 114	165	989	3 325	1 929	557	1 0 6 2	140	14	179	315	3 3 4 5	193	952	724	13 818	796	57 576	Electricity
Others	178		434	135	7 679	2.5	851	307	424	35	310	32	73	140	322	4 9 0 7		97	447	3 811	299	20 481	Others
Industry	956	5.9	1 889	415	45 378	11	1 918	3 266	2 105	802	1 279	154	38	244	286	5 280	174	1 105	1 124	11 634	1 459	79 525	Industry
Coal, peat, and coal & peat products	113		85	7.0	16 422		529	759	361	58	49	20		23	82	181	7.7	219	269	554	684	20 423	Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	188	5.3	211	153	2 783	3.1	133	707	184	105	226	19	24	46	65	361	25	78	170	843	115		Crude oil, NGL & petroleum products
Gas	266		663	39	5 724	1.2	513	448	321	363	339	46		56		1 4 9 3	62	143	175	5 678	35	16 366	Gas
Electricity	283	0.6	665	162	15 934	7.1	358	1 193	992	276	617	47	10	104	99	1 3 3 5	80	572	289	3 019	419	26 465	Electricity
Others	107		265	55	4 5 1 5	0.1	384	158	247		48	22	3.9	15	39	1910		94	221	1 539	206	9 828	
Transport	1 250	16	2 3 5 6	390	13 759	80	2 277	2 645	1 490	758	1 510	204	25	385	460	3 6 6 7	113	483	1 130	25 280	481		Transport
Coal, peat, and coal & peat products					27											3.6							Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	1 205	16	2 081	386	11 316	77	1 973	2 565	1 409	720	1 502	204	25	346	440	2 3 1 9	103	477	998	22 598	480		Crude oil, NGL & petroleum products
Gas	18		157	0.3	1 340		0.3	0.9	40	1.5	1.6			24		1 0 2 0	0.1		41	1 166	0.3	3 811	
Electricity	23		29	4.5	717	3.0	1.1	60	13	1.3	5.7	0.4		0.3	0.4	325	10	5.6	0.8	46	0.5		Electricity
Others	3.7		89		358	0.2	302	19	27	35		0.2		15	20				90	1 470	0.5		Others
Agriculture	112		316	15	2 052	0.1		126	75	18	129	29	4.6	8.5	12	368		11	94	805	136		Agriculture
Coal, peat, and coal & peat products			0.5		409							1.4				2.2							Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	103		236	5.1	848			116	18	16	80	16	4.3	3.3	5.1	98		2.8	93	472	99		Crude oil, NGL & petroleum products
Gas	1.1		42	0.7	6.2				0.1			1.2				62		0.2		62			Gas
Electricity	7.5		38	8.4	575	0.1		9.4	54	2.5	49	9.2	0.3	5.0	7.1	77		8.2	1.4	206	19		Electricity
Others				0.5	214			0.4	1.6			0.4		0.2	0.1	129				65	19		Others
Residential & commercial	765	14	2 439	280	14 150	184	1 199	3 698	1 745	338	965	119	76	246	629	6490		492	670	19 872	529		Residential & commercial
Coal, peat, and coal & peat products	0.2				1 714			6.4	7.7			0.7				163				14	6.9		Coal, peat, and coal & peat products
Crude oil, NGL & petroleum products	43	8.0	108	76	1 439	3.6	414	805	186	61	353	15	2.6	50	164	543		79	102	1 117	102		Crude oil, NGL & petroleum products
Gas	189	8.0	1 094	28	2 542	23	3.2	722	545	0.5	36	13		17		2 104	6.6	47		7 892		15 264	
Electricity	465	12	1 161	100	6 113	155	630	2 060	858	277	315	81	4.0	69	202	1 2 3 2	101	362	433	10 112	347		Electricity
Others	67		77	77	2 342	2.2	153	105	148		261	9.3	69	110	263	2 4 4 8		3.0	136	736	74	7 081	Others

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

			,								Petajo	ules											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	11 416		1 075	0.4	93 886		13 815	16	15	90	129	63		5.2	319	7 734			143	12 072	1 023	141 802	Production
Import	15	28	175	222	5 252	164	251	4 571	2 855	894	254	15		15	723		17	1 568	567	139	743	18 469	Import
Export	- 9 688		- 924	-0.8	- 354		- 9 351	- 23			-0.1	- 36		-2.3	- 157	- 5 142	-0.1	-1.5	-5.0	- 2 188	- 28	- 27 901	Export
Stock change	- 176		- 10	5.1	- 3 716	- 14	- 377	-3.9	- 13	6.2	0.4	0.3		12	- 87			- 19		-7.6	70	- 4 329	Stock change
Primary energy supply	1 567	28	316	227	95 068	150	4 337	4 5 6 0	2 856	990	384	42		30	799	2 592	17	1 548	704	10 016	1 808	128 041	Primary energy supply
Main activity producers	- 1 395		- 246	- 208	- 57 651	- 150	- 2 597	- 2 533	- 1 684	- 925	- 261	-7.3		-1.5	- 717	- 1 770	-9.3	- 833	- 298	- 8 902	- 1 101	- 81 289	Main activity producers
Autoproducers		-6.5	-1.2					- 223	- 247		-0.3	-7.2		-2.8		- 141		- 299		- 48		- 977	Autoproducers
Coal transformation	- 57		- 40	-6.2	- 7 768			- 684	- 323		- 24	-4.8				- 295		- 117		- 240		- 9 561	Coal transformation
Refining																							Refining
Gas processing					- 1 208															- 72		- 1 280	Gas processing
Other transformation									- 21													- 21	Other transformation
Energy sector own use	- 34	- 22		-3.1	- 509			- 116	- 123		- 13	-2.6				-8.2		- 44		- 39		- 915	Energy sector own use
Final energy consumption	113		82	11	18 719		1 740	717	347	65	67	21		26	78	365	8.1	188	356	553	693	24 150	Final energy consumption

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

											Petajo	oules											
	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	807	203	12 115	4.6	8 571		1 310	14	52	1 044	4 157	39	50	219	3.1	21 226		0.1	290	32 330	400	82 836	Production
Import	1 852	333	1 885	787	24 269	466	1 901	7 352	7 634	1 169	2 089	293	108	440	890	38	5 620	2 305	2 130	17 749	952	80 261	Import
Export	- 752	- 490	- 9 728	- 62	- 2 512	-3.3	- 269	- 712	- 2 765	- 913	- 2 626	- 41	- 74	- 131	- 19	- 14 434	- 3 042	- 698	- 368	- 17 920	- 204	- 57 764	Export
Stock change	-1.1	-1.2	8.3	-8.9	- 1 240	-5.4	87	66	- 27	18	0.9	5.7		5.7	12	- 43	- 37	9.3		1 198	14	62	Stock change
Primary energy supply	1 807	43	4 114	690	28 770	103	3 030	6 3 1 5	4 270	1 283	3 417	268	84	503	830	6 363	303	1 482	1 970	31 722	1 162	98 528	Primary energy supply
Main activity producers	- 11	-0.5	- 51	- 18	- 367	-4.5		- 270	- 58	- 17	- 198	-0.1	-1.9	-6.9	- 34	- 23	- 10	- 37	- 13	- 344	-1.4	- 1 467	Main activity producers
Autoproducers	- 32		- 19	-4.8				- 147	- 55	- 23	- 50		- 26	-0.5		- 209	-3.2	- 10		- 62		- 639	Autoproducers
Coal transformation								- 16														- 16	Coal transformation
Refining	-1.5	- 34	- 235	3.7	4 627		- 213	127	- 211	- 97	- 82	-1.1	-5.9	- 27	- 14	296	- 53	87	- 473	- 1 352	- 94	2 249	Refining
Gas processing		0.8			- 26	- 12	51	- 97	- 18	72	- 25		6.6									- 47	Gas processing
Other transformation		11	139	19			-8.4	-8.1	55		0.5								229	211		649	Other transformation
Energy sector own use	- 181		- 587	- 27	- 3 461		- 38	- 258	- 226	- 20	- 176	-2.2		-4.8	- 13	- 155	- 125	- 82	-3.3	- 1 179		- 6 538	Energy sector own use
Final energy consumption	1 552	23	2 725	663	17 163	76	2 833	4 262	1 777	1 142	2 548	258	56	467	715	3 467	130	651	1 454	25 567	977	68 506	Final energy consumption

Demand & supply table of gas in 2022

											Petajo	ules											
	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	5 453	360	7 201	46	8 201		2 418	75		2 785	1 391	130	483	555	109	21 304		3.2	979	35 785	287	87 566	Production
Import	137		901	193	5 618	187		3 474	2 287	437	1 528					228	441	1 007	601	2 944		19 983	Import
Export	- 4 173	- 231	- 3 021		- 217		- 669			- 1 303	-0.3		- 446	- 192		- 5 738				- 6 720		- 22 710	Export
Stock change	25	-0.1	59	-3.9	- 18			- 82	- 57		3.7	-0.5		-0.7			-0.6	-2.3	-4.4	283		202	Stock change
Primary energy supply	1 442	130	5 140	235	13 584	187	1 749	3 467	2 230	1 919	2 923	130	36	362	109	15 794	441	1 008	1 576	32 292	287	85 041	Primary energy supply
Main activity producers	- 270	- 47	- 507	- 126	- 2 634	- 175	- 768	- 2 208	- 1 145	- 511	- 1 160	- 36	-5.2	- 198	- 106	- 7 534	- 321	- 787	- 913	- 11 886	- 209	- 31 546	Main activity producers
Autoproducers	- 198	-5.5	- 253	-4.9				- 139	- 43	- 50	- 292	-1.8	-5.5	- 11			- 45	-6.8		- 655		- 1710	Autoproducers
Coal transformation																							Coal transformation
Refining																							Refining
Gas processing		6.2			45	12	147	92		- 717	10		- 13							47		- 370	Gas processing
Other transformation	- 270	- 47	- 507	- 126	- 2 634	- 175	- 768	- 2 208	- 1 145	- 511	- 1 160	- 36	-5.2	- 198	- 106	- 7 534	- 321	- 787	- 913	- 11 886	- 209	- 31 546	Other transformation
Energy sector own use	- 395	- 33	- 1 543	- 15	- 812		- 349	- 28	- 72	- 44	- 569	-3.6	- 13	- 43	-3.5	- 598	-0.5	- 22	- 137	- 2 891		- 7 572	Energy sector own use
Final energy consumption	469	0.7	2 071	71	9 766	24	496	1 152	934	350	381	57		109		4 509	66	199	336	15 469	41	36 500	Final energy consumption

APEC Energy Statistics 2022

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

											Petaj	oules											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	M exico	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		15 532	15	16	82	129	67		3.9	310	7 422			149	11 743	991	133 764	Production
Import	12	29	198	273	5 802	172	366	4 704	2 869	852	191	37		11	690	572	19	1 672	634	119	853	20 075	Import
Export	- 9 866		- 799	-1.7	- 248		- 11 010	- 66			-0.1	- 35		- 24	- 205	- 5 503		-1.4	-4.3	- 2 152	- 42	- 29 959	Export
Stock change	70		19	-7.7	- 840	- 20	- 1 523	-1.7	22	24	-0.9	-5.3		38	-3.4	-0.7		- 29	- 207	925	62	- 1 479	Stock change
Primary energy supply	1 684	29	469	265	89 498	153	3 366	4 651	2 907	958	319	63		28	792	2 490	19	1 641	571	10 635	1 864	122 402	Primary energy supply
Main activity producers	- 1 467		- 315	- 253	- 55 716	- 153	- 2 837	- 2 583	- 1754	- 901	- 185	- 24		-0.3	- 701	- 1 727	- 11	- 833	- 302	- 9 592	- 1 188	- 80 540	Main activity producers
Autoproducers		-6.7	-1.4					- 268	- 304		-1.5	-8.0		-4.5		- 141		- 364		- 51		- 1 149	Autoproducers
Coal transformation	- 52		- 37	-6.5	- 7 685			- 761	- 350		- 25	-5.6				- 241		- 129		- 272		- 9 565	Coal transformation
Refining																							Refining
Gas processing					- 971															- 74		- 1 045	Gas processing
Other transformation									- 18													- 18	Other transformation
Energy sector own use	- 35	- 22		-6.0	- 504			- 122	- 133		- 13	-2.7				-7.8		- 49		- 44		- 938	Energy sector own use
Final energy consumption	113		85	7.0	19 407		529	765	369	58	49	22		23	82	364	7.7	219	269	568	690	23 629	Final energy consumption

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

											Petajo	ules											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	785	Production
Import	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	1 766	Import
Export	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	- 713	Export
Stock change	8.8	-0.5	27	0.6	- 763	- 12	129	3.8	158	157	-1.4	17		1.8	6.1	- 121	88	-2.5	13	1 114	-1.8	823	Stock change
Primary energy supply	1 777	33	3 975	685	28 675	139	2 884	6 307	4 670	1 058	3 273	285	79	467	739	6 857	824	1 558	1 813	31 969	1 025	99 092	Primary energy supply
Main activity producers	-8.4	-0.4	- 38	- 21	- 383	-3.7	- 106	- 266	- 25	- 10	- 388	-0.3	-2.2	-4.2	- 17	- 23	-2.7	- 42	-6.3	- 288	-2.2	- 1 638	Main activity producers
Autoproducers	- 36		- 15	-6.0				- 141	- 65	-1.5	- 55		- 25	-0.5		- 202	-5.4	- 14		- 75		- 641	Autoproducers
Coal transformation								- 15														- 15	Coal transformation
Refining	- 18	- 30	- 215	- 10	5 110		- 190	129	- 213	- 103	- 80	-4.1	3.0	- 14	-8.8	- 410	- 34	142	- 291	- 1 608	- 91	2 064	Refining
Gas processing		8.0			- 24	- 12	49	- 83	- 11	75	- 25		1.9									- 30	Gas processing
Other transformation		11	145				-1.4	-7.5	47		0.5								300	201		696	Other transformation
Energy sector own use	- 182		- 547	- 14	- 1 706		- 38	- 242	- 230	- 21	- 160	-5.9		-2.5	-1.6	- 149	- 119	- 75	-5.0	- 1 133		- 4 632	Energy sector own use
Final energy consumption	1 541	22	2 635	629	18 022	83	2 571	4 265	1 870	927	2 161	257	56	451	680	3 342	132	651	1 363	25 031	796	67 483	Final energy consumption

Demand & supply table of gas in 2021

											Petajo	oules											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	M exico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Production	5 140	378	6 697	42	7 735		2 483	80	2.1	2 617	1 327	143	465	460	118	23 237		3.7	1 184	34 005	264	86 381	Production
Import	187		869	178	6 242	192		3 520	2 2 6 0	337	1 695					249	445	979	620	2 818		20 590	Import
Export	- 3 817	- 270	- 2 818		- 206		- 762			- 1 188	-0.3		- 430	- 143		- 6 258				- 6 677		- 22 569	Export
Stock change	19	0.9	100	0.9				31	- 16		13	-3.7		0.5		- 89	0.7	- 10	-1.9	129		175	Stock change
Primary energy supply	1 530	109	4 847	221	13 771	192	1 721	3 631	2 246	1 767	3 034	139	35	318	118	17 138	446	973	1 802	30 275	264	84 576	Primary energy supply
Main activity producers	- 279	- 51	- 477	- 116	- 2 563	- 179	- 776	- 2 343	- 1 168	- 416	- 1 353	- 37	-4.7	- 169	- 113	- 8 218	- 327	- 761	- 1 035	- 11 073	- 188	- 31 648	Main activity producers
Autoproducers	- 192	-5.5	- 250	-3.9				- 145	- 67	- 50	- 435	-1.5	-5.5	-8.8			- 46	-4.2		- 641		- 1 854	Autoproducers
Coal transformation																							Coal transformation
Refining																							Refining
Gas processing		12			- 95	12	127	79		- 511	8.6		- 13							48		- 332	Gas processing
Other transformation		- 20	- 142						- 19							- 1 264		-2.7	- 232	- 161		- 1 840	Other transformation
Energy sector own use	- 386	- 34	- 1 510	- 13	- 706		- 311	- 34	- 75	- 49	- 528	-5.9	- 12	- 41	-5.1	- 652	-0.4	- 22	- 289	- 2 859		- 7 532	Energy sector own use
Final energy consumption	474	0.8	1 955	68	9 840	25	517	1 171	906	365	376	60		98		4 918	68	191	217	14 799	35	36 084	Final energy consumption

Power generation table in 2022

											Gigawatt	t-hours											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Total	270 818	5 602	651 200	88 040	8 848 712	36 170	332 938	1 009 803	610 173	192 071	343 847	44 691	4 4 3 2	59 794	111 516	1 170 642	57 112	288 154	191 316	4 472 902	267 823	19 057 754	Total
Thermal	187 536	5 5 9 7	114 142	37 984	5 740 946	35 808	267 523	696 719	383 850	155 261	235 044	5 961	3 3 4 0	26 695	86 832	738 279	54 244	237 492	152 311	2 696 235	134 029	11 995 828	Thermal
Coal	133 592	1 2 0 8	26 251	19 170	5 492 741	12 758	205 308	312 258	207 107	82 222	24 083	1 342		120	66 43 0	193 381	596	121 037	34 396	913 302	104 541	7 951 841	Coal
Oil	4 664	46	5 367	2 72 6	8 548	177	6 08 9	41 059	6 777	3 0 2 7	24 666	7.3	2 461	1 130	2 519	9 356	1 407	4 44 9	10 895	42 513	78	177 961	Oil
Gas	49 280	4 3 4 4	82 524	16 088	239 656	22 872	56 126	343 402	169 967	70 012	186 295	4 612	880	25 445	17 884	535 542	52 242	112 006	107 020	1 740 421	29 4 1 0	3 866 027	Gas
Hydro	16 297		397 616	20 388	1 352 195	1.6	27 29 5	77 235	3 541	31 934	35 851	26 274	958	29 744	10 085	200 475		8 899	6 449	256 601	95 929	2 597 767	Hydro
Nuclear			87 239		417 775			56 070	176 054		10 850					223 336		23 75 5		803 669		1 798 748	Nuclear
Geothermal				467			16 677	2 980			4 536	8 515	96		10 425	449		25	1.4	19 142		63 312	Geothermal
Others	66 985	5.1	52 203	29 202	1 337 796	361	21 443	176 799	46 727	4876	57 566	3 941	38	3 355	4 174	8 104	2 868	17 983	32 555	697 255	37 8 6 5	2 602 100	Others
Main activity producers	222 213	4 008	596 486	81 556	8 848 712	35 854	332 938	837 147	577 266	183 135	271 258	43 039	1 468	57 987	111 516	1 088 138	52 680	247 707	191 316	4 261 217	267 823		Main activity producers
Thermal	163 844	4 0 0 7	89 520	36 40 6	5 740 946	35 808	267 523	634 303	354 747	147 183	201 694	5 267	809	25 699	86 832	659 558	49 813	209 038	152 311	2 567 486	134 029	11 566 822	Thermal
Coal	133 592		26 098	19 170	5 492 741	12 758	205 308	286 745	187 894	82 222	24 055	719		120	66 43 0	175 579	596	94 28 5	34 396	904 204	104 541	7 851 452	Coal
Oil	1 012	46	3 717	2 069	8 548	177	6 08 9	25 415	1 619	1 2 4 4	19 985	7.3	330	819	2 519	1 748	1 174	3 592	10 895	35 203	78	126 285	Oil
Gas	29 240	3 9 6 2	59 705	15 167	239 656	22 872	56 126	322 143	165 234	63 717	157 654	4 541	480	24 761	17 884	482 230	48 043	111 161	107 020	1 628 079	29 4 1 0	3 589 085	Gas
Hydro	16 297		376 198	20 198	1 352 195		27 29 5	74 152	3 541	31 890	34 952	26 270	658	29 164	10 085	199 269		8 893	6 449	255 416	95 929	2 568 851	Hydro
Nuclear			87 239		417 775			56 070	176 054		10 850					223 336		23 755		803 669		1 798 748	Nuclear
Geothermal				467			16 677	2 163			4 536	8 463			10 425	449		23	1.4	19 142			Geothermal
Others	42 073	0.8	43 529	24 484	1 337 796	46	21 443	70 460	42 924	4 0 6 2	19 227	3 040	1.0	3 124	4 174	5 527	2 868	5 99 9	32 555	615 504	37 8 6 5	2 316 700	
Autoproducers	48 604	1 5 9 4	54 714	6 48 5		316		172 656	32 907	8 9 3 6	72 588	1 651	2 9 6 4	1 806		82 504	4 432	40 447		211 685			Autoproducers
Thermal	23 692	1 5 9 0	24 622	1 578				62 416	29 103	8 0 7 8	33 350	694	2 5 3 1	996		78 721	4 432	28 45 4		128 750		429 007	I I
Coal		1 2 0 8	153					25 513	19 213		28	623				17 802		26 75 1		9 098		100 389	
Oil	3 652		1 650	657				15 645	5 158	1 783	4 681		2 131	312		7 607	233	857		7 309		51 676	"
Gas	20 040	382	22 819	921				21 258	4 732	6 2 9 5	28 641	71	400	685		53 311	4 199	845		112 342		276 942	
Hydro			21 418	189		1.6		3 083		44	899	3.8	300	580		1 206		6.0		1 185		28 916	Hydro
Nucle ar																							Nuclear
Geothermal								817				52	96					2.2				968	Geothermal
Others	24 912	4.3	8 674	4 717		315		106 339	3 804	814	38 339	902	37	231		2 577		11 984		81 750		285 400	Others

Power generation table in 2021

											Gigawat	-hours											
	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea	Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
Total	265 115	5 700	644 578	88 019	8 534 248	37 061	308 799	1 039 629	605 777	178 578	381 364	44 611	4 3 6 5	57 517	106 115	1 160 374	55 788	291 020	188 943	4 354 059	255 328	18 606 987	Total
Thermal	194 756	5 6 9 5	116 376	45 029	5 707 028	36 798	252 597	720 693	404 406	144 124	291 736	8 234	3 2 2 3	22 394	82 728	714 777	53 510	242 53 6	155 650	2 661 776	145 3 19	12 009 387	Thermal
Coal	140 311	1 2 4 2	34 448	26 06 5	5 449 548	13 497	189 684	321 542	202 946	84 730	17 167	3 232		130	62 05 2	188 647	693	128 846	38 938	991 561	119 000	8 014 280	Coal
Oil	4 662	36	4 193	3 06 1	11 162	200	6 648	39 555	8 166	975	51 817	27	2 3 9 2	631	1 61 6	8 588	440	5 33 1	4 797	36 125	7.0	190 432	Oil
Gas	49 783	4 4 1 7	77 735	15 902	246 318	23 100	56 265	359 595	193 294	58 4 19	222 752	4 975	831	21 633	19 060	517 542	52 377	108 359	111 915	1 634 090	26 3 1 2	3 804 675	Gas
Hydro	14 761		383 852	19 348	1 338 999	1.5	24 697	78 792	3 055	31 105	34 537	24 232	1 0 0 4	31 926	9 185	217 450		6 65 9	4 682	253 479	78 553	2 556 316	Hydro
Nuclear			92 629		407 523			70 805	158 015		11 923					222 181		27 788		811 551		1 802 416	Nuclear
Geothermal				324			15 899	3 008			4 363	8 446	96		10 01 6	430		9.1	1.5	19 077		61 670	Geothermal
Others	55 599	4.4	51 721	23 318	1 080 698	262	15 60 6	166 330	40 301	3 3 4 9	38 805	3 698	42	3 198	4 185	5 536	2 278	14 028	28 609	608 176	31 456	2 177 198	Others
Main activity producers	225 031	4 0 7 4	590 694	77 369	7 779 060	35 029	291 814	849 122	531 372	167 833	250 943	42 969	1 501	50 673	101 756	1 021 046	48 419	237 640	185 602	4 038 892	242 831	16 773 668	Main activity producers
Thermal	171 370	4 0 4 7	93 350	43 63 6	5 707 028	36 798	252 597	655 895	365 722	138 513	247 593	7 477	755	21 533	82 728	638 908	48 912	207 173	155 650	2 533 910	145 3 19	11 558 913	Thermal
Coal	140 311		34 261	26 06 5	5 449 548	13 497	189 684	292 157	178 614	84 730	17 036	2 543		25	62 05 2	171 280	693	95 187	38 938	982 075	119 000	7 897 697	Coal
Oil	848	36	2 854	2 404	11 162	200	6 648	25 090	2 509	807	46 644	27	324	457	1 61 6	1 605	196	4 102	4 797	29 393	7.0	141 727	Oil
Gas	30 211	4 0 1 1	56 235	15 167	246 318	23 100	56 26 5	338 648	184 599	52 976	183 913	4 907	431	21 051	19 060	466 022	48 023	107 883	111 915	1 522 441	26 3 1 2	3 519 489	Gas
Hydro	14 761		362 160	19 180	1 338 999		24 697	75 751	3 055	31 101	33 754	24 228	704	31 294	9 185	216 143		6 658	4 682	252 261	78 553	2 527 165	Hydro
Nuclear			92 629		407 523			70 805	158 015		11 923					222 181		27 788		811 551		1 802 416	Nuclear
Geothermal				324			15 899	2 216			4 260	8 393			10 01 6	430		9.1	1.5	18 457		60 006	Geothermal
Others	35 186	0.9	42 526	18 250	1 080 698	42	15 60 6	61 768	36 782	2 7 2 6	23 754	2 823	4.5	2 997	4 185	3 225	2 278	4 27 0	28 609	536 714	31 456	1 933 900	Others
Autoproducers	43 799	1 652	53 913	6 628		222		173 192	42 203	6 2 3 8	60 080	1 690	2 9 0 2	1 694		79 487	4 599	45 122		201 166		724 587	Autoproducers
Thermal	23 386	1 648	23 026	1 392				64 798	38 684	5 6 1 1	44 143	757	2 4 6 8	861		75 869	4 599	35 364		127 867		450 474	Thermal
Coal		1 2 4 2	187					29 386	24 332		131	689		105		17 366		33 659		9 486		116 583	Coal
Oil	3 814		1 339	657				14 465	5 657	168	5 173	0.1	2 0 6 8	174		6 984	244	1 229		6 732		48 705	Oil
Gas	19 572	406	21 500	735				20 947	8 695	5 443	38 839	68	400	582		51 520	4 355	475		111 649		285 186	Gas
Hydro			21 692	168		1.5		3 041		4.0	783	3.8	300	632		1 307		1.2		1 218		29 151	Hydro
Nucle ar																							Nuclear
Geothermal								792			103	54	96							620		1 664	Geothermal
Others	20 413	3.6	9 195	5 068		221		104 562	3 518	623	15 051	875	37	201		2 311		9 758		71 461		243 298	

Power generation capacity - total

											Me	egawatts													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Australia	37 521	45 274	46 073	48 739	49 983	50 247	49 878	50 389	53 141	54 066	56 934	60 797	61 863	63 720	64 975	66 909	73 638	72 849	72 139	77 759	83 398	91 328	96 698	102 847	Australia
Brunei Darussalam	307	772	732	732	747	759	761	760	876	879	879	888	894	915	917	920	923	923	993	1 007	1 261	1 142	1 233	1 234	Brunei Darussalam
Canada	104 121	111 317	112 528	114 969	118 259	120 486	123 490	125 022	126 048	127 229	131 715	132 427	132 971	133 168	133 595	136 227	143 688	146 156	146 932	147 924	148 369	149 650	151 793	152 682	Canada
Chile	5 099	9 383	9 777	9 932	10 351	11 216	11 649	11 842	12 203	12 923	15 731	16 231	17 549	18 153	18 474	20 513	21 436	24 530	26 208	27 534	27 644	30 001	32 452	36 047	Chile
China	137 891	319 330	338 500	356 560	391 410	442 500	516 790	623 140	708 598	784 758	865 938	966 420	1 062 430	1 146 750	1 257 680	1 378 880	1 525 270	1 650 506	1 777 094	1 900 120	2 010 050	2 200 710	2 376 940	2 567 950	China
Hong Kong, China	8 342	11 568	11 568	11 606	11 683	9 703	11 804	12 380					10 645	10 645	10 645	10 645	10 645	10 713	10 557	10 353	10 386	10 834	10 967	10 876	Hong Kong, China
Indonesia	9 135	20 761	21 039	21 517	25 139	26 424	27 241	29 688	30 854	31 463	31 959	33 980	39 916	45 246	50 988	53 064	54 688	58 416	62 233	64 960	69 683	72 768	74 557	83 843	Indonesia
Japan	194 459	260 359	263 398	268 012	270 827	275 698	277 905	279 583	280 170	281 568	285 654	288 331	293 576	296 730	304 290	317 124	323 945	338 555	343 506	349 104	346 638	357 845	361 628	369 021	Japan
Korea	13 406	53 700	56 736	58 964	60 698	64 534	66 622	70 097	73 376	79 852	80 594	84 683	84 650	87 869	91 493	99 808	103 049	111 012	122 682	126 968	131 000	136 579	140 493	144 884	Korea
Malaysia	5 582	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	39 699	Malaysia
Mexico	26 677	40 345	42 514	45 716	49 706	52 268	52 497	55 352	57 839	58 264	59 574	61 389	62 049	64 089	64 107	66 255	67 512	72 574	74 409	87 131	94 805	95 982	105 310	114 520	Mexico
New Zealand	6 915	8 456	8 5 5 5	8 570	8 596	8 893	8 903	8 917	9 470	9 405	9 436	9 600	9 9 6 9	9 868	9 706	9 9 0 9	9 576	9 414	9 435	9 482	9 514	9 683	9 953	10 112	New Zealand
Papua New Guinea		582	583	583	589	589	341	341	389	813	831	1 042	1 176	1 192	1 199	1 021	1 424	1 404	1 409	1 431	1 385	1 420	1 422	1 223	Papua New Guinea
Peru	4 144	5 5 5 5	5 387	5 3 9 6	5 422	5 418	5 611	5 873	6 352	6 3 4 9	7 256	8 000	8 046	8 939	9 885	10 309	11 270	13 794	14 774	15 220	15 174	15 408	15 348	15 757	Peru
The Philippines	5 814	13 185	13 402	14 702	15 124	15 548	15 619	15 803	15 941	15 681	15 610	16 358	16 162	17 025	17 325	17 944	18 765	21 423	22 728	23 815	25 542	26 297	26 882	28 258	The Philippines
Russia	213 400	196 602	199 135	198 258	201 548	202 454	204 186	205 901	208 661	208 475	208 842	205 964	206 013	214 624	239 423	259 020	257 075	264 828	266 519	271 600	275 786	270 210	269 764	269 725	Russia
Singapore	3 667	6 6 1 0	7 522	7 295	7 828	9 5 0 9	10 106	10 106	10 606	10 606	10 659	10 265	10 222	10 488	11 221	12 863	13 043	13 599	13 467	13 505	12 306	11 764	11 922	12 462	Singapore
Chinese Taipei	17 809	34 772	35 532	38 096	40 106	41 958	43 163	45 050	45 879	46 371	47 974	48 897	48 807	48 433	48 877	48 491	48 747	49 960	49 753	52 680	55 915	57 738	59 375		Chinese Taipei
Thailand	8 725	20 802	20 929	22 227	22 720	25 907	26 269	26 815	28 285	30 508	30 606	31 485	31 772	33 178	34 973	34 973	34 973	48 276	49 048	50 947	52 298	54 814	59 650	60 198	Thailand
United States	719 731	811 349	848 322	905 361	948 731	963 345	978 539	986 955	995 876	1 011 254	1 026 869	1 041 009	1 055 280	1 067 878	1 065 293	1 074 544	1 072 470	1 086 849	1 100 333	1 119 130	1 127 771	1 147 892	1 180 315	1 198 174	United States
Viet Nam	2 537	6 250	8 323	8 542	9 002		8 822	11823				21 542	23 527	26 475	30 662	45 083	38 537	41 463	45 452	48 689	55 206	61 676	77 548	80 133	Viet Nam

Power generation capacity - thermal power

Australia 29014 36 589 37 494 40 030 41 252 41 257 39 946 40 341 42 68 43 541 46 094 48 951 49 616 49 780 49 780 50 37 50 37 53 150 50 354 50 836 50 66 51 955 52 352 52 20 80 40 40 30 41 252 41 257 39 946 40 34 14 26 8 43 541 46 094 48 951 49 616 49 780 49 780 49 78 75 50 37 53 150 50 354 50 80 36 50 66 51 955 52 352 52 52 52 52 52 52 52 52 52 52 52 52 5												Me	gawatts													
Brunei Darussalam 30 7 772 732 732 732 747 759 761 760 876 879 879 888 894 914 915 919 922 922 992 1 006 1 260 1 140 1 229 1 229 Brunei Darussalam 30 287 33 183 34 703 34 967 36 923 35 088 34 020 33 509 33 664 33 310 35 698 34 787 33 410 31 662 31 522 31 246 32 675 33 172 32 895 33 163 33 342 35 068 35 277 34 232 Chile 2 421 4 931 5 326 5 453 5 861 5 970 6 387 6 574 6 783 7 389 9 601 10 050 10 871 11 125 10 797 12 32 41 12 621 1 4 501 1 4 802 1 5 060 15 015 15 649 15 802 15 800 Hong Kong, China 101 845 237 540 253 010 265 550 289 770 329 480 391 380 483 820 556 070 Hong Kong, China Indonesia 7 040 17 386 17 573 10 712 1 4 166 15 555 16 057 17 4 54 18 473 18 693 19 047 21 450 26 220 30 228 44 443 46 385 46 162 49 401 5 2 824 55 148 59 380 62 297 63 005 71 227 Japan 124 984 167 840 169 975 174 524 176 472 179 403 177 849 178 713 179 412 181 859 184 404 185 187 188 327 191 942 194 337 196 664 194 388 197 589 197 088 196 650 193 408 195 380 191 875 191 613 Korea 11 065 36 33 83 85 81 38 871 40 994 42 843 45 282 46 596 49 715 55 8005 56 333 601 28 377 24 378 42 64 77 33 48 39 478 41 10 40 10 10 10 10 10 10 10 10 10 10 10 10 10		1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Canada 30 287 33 183 34 703 34 967 36 923 35 088 34 020 33 509 33 664 33 310 35 698 34 787 33 410 31 662 31 522 31 246 32 675 33 172 32 895 33 163 33 342 35 068 35 277 34 232 Canada Chile 2 421 4 931 5 326 5 453 5 861 5 970 6 387 6 574 6 783 7 389 9 601 10 050 10 871 11 125 10 797 12 324 12 621 14 501 14 882 15 060 15 015 15 649 15 802 15 802 Chile China 101 845 237 540 253 010 265 550 289 770 329 480 391 380 483 820 556 070 602 860 651 080 70 9 670 768 340 819 680 870 90 932 320 1 005 540 1 060 944 1 104 946 1 144 080 1 189 570 1 245 170 1 296 780 1 333 290 China Hong Kong, China 14 086 11 568 11 588 11	Australia	29 014	36 589	37 494	40 030	41 252	41 257	39 946	40 341	42 628	43 541	46 094	48 951	49 616	49 780	49 540	49 977	55 037	53 150	50 354	50 836	50 676	51 955	52 352	52 600	Australia
Chile 2 421 4 931 5 326 5 453 5 861 5 970 6 387 6 574 6 783 7 389 9 601 10 050 10 871 11 125 10 797 12 324 12 621 14 501 14 882 15 060 15 015 15 649 15 802 15 802 Chile China 101 845 237 540 253 010 265 550 289 770 329 480 391 380 483 820 556 070 602 860 651 080 70 9670 768 340 819 680 870 90 932 320 1005 540 1060 944 1104 946 1144 080 1189 570 1245 170 1296 780 1333 290 Hong Kong, China 1 8 342 11 568 11 580 11	Brunei Darussalam	307	772	732	732	747	759	761	760	876	879	879	888	894	914	915	919	922	922	992	1 006	1 260	1 140	1 229	1 229	Brunei Darussalam
China Hong Kong, China Hong Kong, China Hong Kong, China Indonesia	Canada	30 287	33 183	34 703	34 967	36 923	35 088	34 020	33 509	33 664	33 310	35 698	34 787	33 410	31 662	31 522	31 246	32 675	33 172	32 895	33 163	33 342	35 068	35 277	34 232	Canada
Hong Kong, China lndonesia 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 44 443 46 385 46 162 49 401 52 824 55 148 59 380 62 297 63 005 71 227 Indonesia Japan 124 984 167 840 169 975 174 254 176 472 179 403 177 849 178 713 179 412 181 859 184 404 185 187 188 327 191 942 194 337 196 664 194 388 197 589 197 088 196 650 193 408 195 380 191 875 191 613 Japan Korea 11 065 36 338 38 581 38 871 40 994 43 834 45 282 46 596 49 715 55 805 56 333 60 158 58 005 58 766 61 446 68 549 69 530 74 868 85 641 88 240 87 428 88 756 89 185 89 144 Korea 18 10 78 89 18 91 89 144 80 18 10 78 89 18 91 89 144 80 18 10 78 89 18 91 89 144 80 18 10 78 89 18 91 89 144 80 18 10	Chile	2 421	4 931	5 3 2 6	5 453	5 861	5 970	6 387	6 574	6 783	7 389	9 601	10 050	10 871	11 125	10 797	12 324	12 621	14 501	14 882	15 060	15 015	15 649	15 802	15 802	Chile
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 44 443 46 385 46 162 49 401 52 824 55 148 59 380 62 297 63 005 71 227 Indonesia Japan 124 984 167 840 169 975 174 254 176 472 179 403 177 849 178 713 179 412 181 859 184 404 185 187 188 327 191 942 194 337 196 664 194 388 197 589 197 088 196 650 193 408 195 380 191 875 191 613 Japan Korea 11 065 36 338 38 581 38 871 40 994 43 834 45 282 46 596 49 715 55 805 56 333 60 158 58 005 58 766 61 446 68 549 69 530 74 868 85 641 88 240 87 428 88 756 89 185 89 144 Korea Malaysia 4 185 11708 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 29 895 Malaysia Mexico New Zealand 2 296 2 705 2 762 2 682 2 672 2 873 2 811 2 822 3 200 2 986 2 844 2 800 3 069 2 927 2 677 2 679 2 299 2 129 2 129 2 132 2 132 2 242 2 242 2 008 Papua New Guinea 165 165 165 165 165 165 56 56 56 184 200 255 389 394 397 444 1 040 1 020 1 025 1 046 999 1 035 1 037 889 Papua New Guinea 165 165 165 165 165 165 165 165 165 165	China	101 845	237 540	253 010	265 550	289 770	329 480	391 380	483 820	556 070	602 860	651 080	709 670	768 340	819 680	870 090	932 320	1 005 540	1 060 944	1 104 946	1 144 080	1 189 570	1 245 170	1 296 780	1 333 290	China
Japan 124 984 167 840 169 975 174 254 176 472 179 403 177 849 178 713 179 412 181 859 184 404 185 187 188 327 191 942 194 337 196 664 194 388 197 589 197 088 196 650 193 408 195 380 191 875 191 613 Japan Korea 11 065 36 338 38 581 38 871 40 994 43 834 45 282 46 596 49 715 55 805 56 333 60 158 58 005 58 766 61 446 68 549 69 530 74 868 85 641 88 240 87 428 88 756 89 185 89 144 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 29 895 Malaysia Mexico New Zealand 2 296 2 705 2 762 2 682 2 672 2 873 2 811 2 822 3 200 2 986 2 844 2 860 3 069 2 927 2 677 2 679 2 299 2 129 2 132 2 132 2 242 2 242 2 008 New Zealand Papua New Guinea 165 165 165 165 165 56 56 56 56 184 200 255 389 394 397 444 1 040 1 020 1 025 1 046 999 1 035 1 037 889 Papua New Guinea	Hong Kong, China	8 342	11 568	11 568	11 606	11 683	9 703	11 804	12 380	N.A.	N.A.	N.A.	N.A.	10 643	10 643	10 643	10 643	10 643	10 668	10 510	10 300	10 243	10 701	10 751	10 583	Hong Kong, China
Korea 11 065 36 338 38 581 38 871 40 994 43 834 45 282 46 596 49 715 55 805 56 333 60 158 58 005 58 766 61 446 68 549 69 530 74 868 85 641 88 240 87 428 88 756 89 185 89 144 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 29 895 Malaysia Mexico New Zealand 2 296 2 705 2 762 2 682 2 672 2 873 2 811 2 822 3 200 2 986 2 844 2 860 3 069 2 927 2 677 2 679 2 299 2 129 2 132 2 132 2 242 2 242 2 008 New Zealand Papua New Guinea 165 165 165 165 165 56 56 56 56 184 200 255 3 89 394 397 444 1 040 1 020 1 025 1 046 999 1 035 1 037 889 Papua New Guinea	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	44 443	46 385	46 162	49 401	52 824	55 148	59 380	62 297	63 005	71 227	Indonesia
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 29 895 Malaysia Mexico New Zealand Papua New Guinea 165 165 165 165 165 56 56 56 56 184 200 255 389 394 397 444 1 040 1 020 1 025 1 046 999 1 035 1 037 889 Papua New Guinea	Japan	124 984	167 840	169 975	174 254	176 472	179 403	177 849	178 713	179 412	181 859	184 404	185 187	188 327	191 942	194 337	196 664	194 388	197 589	197 088	196 650	193 408	195 380	191 875	191 613	Japan
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 71 083 64 270 Mexico New Zealand 2 296 2 705 2 762 2 682 2 672 2 873 2 811 2 822 3 200 2 986 2 844 2 860 3 069 2 927 2 679 2 299 2 129 2 132 2 132 2 242 2 242 2 008 New Zealand Papua New Guinea 165 165 165 56 56 56 184 200 255 389 394 397 444 1 040 1 020 1 025 1 046 999 1 035 1 037 889 Papua New Guinea	Korea	11 065	36 338	38 581	38 871	40 994	43 834	45 282	46 596	49 715	55 805	56 333	60 158	58 005	58 766	61 446	68 549	69 530	74 868	85 641	88 240	87 428	88 756	89 185	89 144	Korea
New Zealand 2 296 2 705 2 762 2 682 2 672 2 873 2 811 2 822 3 200 2 986 2 844 2 860 3 069 2 927 2 677 2 679 2 299 2 129 2 132 2 132 2 132 2 242 2 242 2 008 New Zealand Papua New Guinea 165 165 165 165 165 56 56 56 184 200 255 3 89 3 94 3 97 4 44 1 0 40 1 0 20 1 0 25 1 0 46 9 99 1 0 35 1 0 37 8 8 9 Papua New Guinea	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	29 895	Malaysia
Papua New Guinea 165 165 165 165 165 56 56 56 184 200 255 389 394 397 444 1 040 1 020 1 025 1 046 999 1 035 1 037 889 Papua New Guinea	Mexico	18 103	28 399	30 584	33 772	37 636	39 283	39 473	42 043	43 750	44 316	45 253	46 867	47 533	48 304	47 958	48 797	49 325	52 939	54 282	61 943	63 465	63 465	71 083	64 270	Mexico
	New Zealand	2 296	2 7 0 5	2 762	2 682	2 672	2 873	2 811	2 822	3 200	2 986	2 844	2 860	3 069	2 927	2 677	2 679	2 299	2 129	2 129	2 132	2 132	2 242	2 242	2 008	New Zealand
Peru 1744 2903 2642 2620 2631 2602 2621 2877 3338 3320 4140 4682 4716 5498 6390 6503 6875 8220 9004 9154 9062 9072 8948 9206 Peru	Papua New Guinea		165	165	165	165	165	56	56	56	184	200	255	389	394	397	444	1 040	1 020	1 025	1 046	999	1 035	1 037	889	Papua New Guinea
	Peru	1 744	2 903	2 642	2 620	2 631	2 602	2 621	2 877	3 338	3 320	4 140	4 682	4716	5 498	6 390	6 503	6 875	8 220	9 004	9 154	9 062	9 072	8 948	9 206	Peru
The Philippines 3 661 8 953 8 953 10 253 10 325 10 399 10 393 10 542 10 663 10 397 10 301 10 921 10 772 11 504 11 784 12 047 12 435 14 465 15 649 16 588 18 132 18 633 18 969 19 994 The Philippines	The Philippines	3 661	8 953	8 953	10 253	10 325	10 399	10 393	10 542	10 663	10 397	10 301	10 921	10 772	11 504	11 784	12 047	12 435	14 465	15 649	16 588	18 132	18 633	18 969	19 994	The Philippines
Russia 149 700 130 501 131 685 130 611 133 505 134 116 135 058 136 000 138 015 138 015 137 143 134 143 139 784 163 926 182 465 179 148 185 913 186 581 190 215 191 948 186 221 183 963 183 435 Russia	Russia	149 700	130 501	131 685	130 611	133 505	134 116	135 058	136 000	138 015	138 015	137 143	134 143	134 143	139 784	163 926	182 465	179 148	185 913	186 581	190 215	191 948	186 221	183 963	183 435	Russia
Singapore 3 667 6 610 7 522 7 160 7 368 9 509 10 106 10 106 10 606 10 606 10 657 10 261 10 216 10 478 10 964 12 606 12 726 13 092 13 243 13 236 12 035 11 435 11 435 11 435 Singapore	Singapore	3 667	6 6 1 0	7 522	7 160	7 3 6 8	9 5 0 9	10 106	10 106	10 606	10 606	10 657	10 261	10 216	10 478	10 964	12 606	12 726	13 092	13 243	13 236	12 035	11 435	11 435	11 435	Singapore
Chinese Taipei 10 041 24 764 25 357 27 800 29 827 31 648 32 799 34 579 35 299 35 707 37 183 37 939 37 647 37 078 37 300 36 665 36 654 37 471 36 730 39 310 41 645 41 782 42 302 42 322 Chinese Taipei	Chinese Taipei	10 041	24 764	25 357	27 800	29 827	31 648	32 799	34 579	35 299	35 707	37 183	37 939	37 647	37 078	37 300	36 665	36 654	37 471	36 730	39 310	41 645	41 782	42 302	42 322	Chinese Taipei
Thailand 6 451 17 865 17 992 19 290 19 746 20 240 20 575 21 023 22 412 24 547 24 444 25 109 25 145 28 859 30 119 30 119 30 119 38 685 38 685 39 365 39 733 41 959 47 088 47 032 Thailand	Thailand	6 451	17 865	17 992	19 290	19 746	20 240	20 575	21 023	22 412	24 547	24 444	25 109	25 145	28 859	30 119	30 119	30 119	38 685	38 685	39 365	39 733	41 959	47 088	47 032	Thailand
United States 498 271 425 748 611 621 666 475 707 577 722 380 734 275 738 403 741 519 748 083 751 881 758 595 763 592 757 802 750 718 750 711 735 015 728 233 726 329 730 362 722 281 736 615 737 208 729 415 United States	United States	498 271	425 748	611 621	666 475	707 577	722 380	734 275	738 403	741 519	748 083	751 881	758 595	763 592	757 802	750 718	750 711	735 015	728 233	726 329	730 362	722 281	736 615	737 208	729 415	United States
Viet Nam 1 362 2 957 4 195 4 414 4 874 4 382 7 137 13 338 13 338 13 778 15 931 29 619 21 815 23 525 26 019 28 015 29 337 31 102 34 422 35 112 Viet Nam	Viet Nam	1 362	2 957	4 195	4 4 1 4	4 874		4 382	7 137				13 338	13 338	13 778	15 931	29 619	21 815	23 525	26 019	28 015	29 337	31 102	34 422	35 112	Viet Nam

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Power generation capacity - hydro power

											Megawatt	S													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Australia	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 271	8 523	8 523	8 523	8 523	8 523	Australia
Brunei Darussalam																									Brunei Darussalam
Canada	59 381	67 407	67 059	69 206	70 374	70 857	71 978	72 838	73 458	74 407	74 687	75 078	75 573	75 537	75 511	75 474	79 405	80 304	80 831	81 570	81 570	81 383	82 307	83 312	Canada
Chile	2 678	4 4 3 0	4 427	4 455	4 466	5 222	5 224	5 230	5 3 5 6	5 433	5 452	5 467	5 946	5 992	6 094	6 445	6 499	6 671	6 656	6 627	6 341	6 818	6 797	7 502	Chile
China	36 046	79 350	83 010	86 070	94 900	105 240	117 390	130 290	148 230	172 600	196 290	216 060	232 980	249 470	280 440	304 860	319 540	332 070	343 590	352 590	358 040	370 280	390 920	414 060	China
Hong Kong, China																		0.2	0.5	0.5	0.5	0.5	0.5	0.7	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	6 121	6 602	6 689	Indonesia
Japan	37 830	46 324	46 355	46 403	46 711	46 738	47 291	47 358	47 313	47 341	47 243	47 736	48 419	48 934	48 932	49 597	50 035	50 058	50 014	50 037	50 033	50 033	49 929	50 008	Japan
Korea	2 340	3 149	3 876	3 876	3 877	3 879	3 884	5 489	5 498	5 504	5 517	5 523	6 419	6 447	6 455	6 469	6 472	6 490	6 494	6 498	6 509	6 507	6 521	6 513	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 7 1 6	6 130	6 128	6 168	6 190	6 188	6 217	6 209	Malaysia
Mexico	7 839	9 653	9 653	9 649	9 658	10 573	10 598	10 800	11 577	11 433	11 474	11 597	11 571	11 626	11 633	12 464	12 223	12 580	12 628	12 628	13 076	13 301	13 303	12 838	Mexico
New Zealand	4 619	5 193	5 260	5 365	5 365	5 3 6 6	5 3 6 7	5 3 6 7	5 3 6 7	5 3 9 0	5 338	5 3 3 3	5 408	5 422	5 4 3 6	5 435	5 435	5 435	5 435	5 435	5 443	5 443	5 443	5 680	New Zealand
Papua New Guinea		131	131	131	131	131	198	198	206	214	222	230	230	240	240	240	258	258	258	258	258	258	258	261	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 3 1 7	3 3 2 9	3 360	3 414	3 527	4 0 2 0	5 086	5 246	5 3 6 3	5 397	5 417	5 514	5 5 1 4	Peru
The Philippines	2 153	2 3 0 1	2 518	2 518	2 867	3 217	3 222	3 257	3 293	3 291	3 291	3 400	3 491	3 521	3 521	3 543	3 600	3 618	3 627	3 701	3 760	3 779	3 752	3 745	The Philippines
Russia	43 400	44 345	44 684	44 828	45 222	45 531	45 797	46 062	46 804	47 066	47 308	47 430	47 479	49 445	50 104	50 845	50 998	51 016	51 241	51 333	51 839	51 858	52 087	52 244	Russia
Singapore																									Singapore
Chinese Taipei	2 562	4 422	4 422	4 511	4 511	4 512	4 512	4 512	4 523	4 5 4 0	4 539	4 5 7 9	4 643	4 683	4 683	4 683	4 691	4 691	4 691	4 694	4 695	4 695	4 696	4 700	Chinese Taipei
Thailand	2 274	2 936	2 936	2 936	2 973	3 476	3 476	3 476	3 475	3 481	3 488	3 488	3 500	3 508	3 524	3 524	3 524	3 519	3 586	3 602	4 103	4 106	3 972	4 123	Thailand
United States	92 360	97 600	98 580	99 727	99 216	98 405	98 887	99 282	99 771	99 788	100 678	101 023	100 944	101 106	101 589	102 162	102 239	102 692	102 703	102 800	102 650	103 039	103 016	103 202	United States
Viet Nam	1 176	3 292	4 128	4 128	4 128		4 155	4 401				8 180	10 165	12 643	14 661	15 394	16 587	17 824	19 288	20 170	20 632	20 859	22 111	22 999	Viet Nam

Power generation capacity - nuclear power

											Megawatts	S													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Australia																									Australia
Brunei Darussalam																									Brunei Darussalam
Canada	13 538	10 615	10 615	10 615	10 615	12 805	13 345	13 345	13 345	13 345	12 665	12 665	12 665	13 370	14 033	14 033	14 033	14 033	14 033	13 338	13 338	12 513	12 513	11 578	Canada
Chile																									Chile
China		2 100	2 100	4 470	6 190	6 9 6 0	6 9 6 0	6 960	98	908	908	10 820	12 570	12 570	14 660	20 080	27 170	33 642	35 817	44 660	48 740	49 890	53 260	55 530	China
Hong Kong, China																									Hong Kong, China
Indonesia																									Indonesia
Japan	31 645	45 248	45 907	45 907	45 742	47 122	49 580	49 467	49 467	47 935	48 847	48 960	48 960	46 148	44 264	44 264	42 048	41 482	39 132	38 042	33 083	33 083	33 083	33 083	Japan
Korea		13 716	13 716	15 716	15 716	16716	17 176	17 716	17716	17 716	17 716	17 716	18 716	20 716	20716	20 716	21 716	23 116	22 529	21 850	23 250	23 250	23 250	24 650	Korea
Malaysia																									Malaysia
Mexico	675	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 365	1 400	1 400	1 400	1 5 1 0	1 608	1 608	1 634	1 721	1721	1 721	1 608	Mexico
New Zealand																									New Zealand
Papua New Guinea																									Papua New Guinea
Peru																									Peru
The Philippines																									The Philippines
Russia	20 300	21 730	22 742	22 742	22 742	22 742	23 242	23 742	23 742	23 304	24 300	24 300	24 300	25 304	25 304	25 304	26 304	27 189	27 952	29 140	30 339	29 419	29 649	29 649	Russia
Singapore																									Singapore
Chinese Taipei	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144	4 508	3 872	3 872	2 887	2 887	Chinese Taipei
Thailand																									Thailand
United States	99 643	97 860	98 159	98 657	99 209	99 628	99 988	100 334	100 266	100 755	101 004	101 167	101 419	101 885	99 240	98 569	98 672	99 565	99 629	99 433	98 119	96 501	95 546	94 659	United States
Viet Nam																									Viet Nam

Power generation capacity - Solar

											Megawatts	5													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Australia		25	29	34	39	46	52	61	73	85	332	1 091	1 421	2 511	3 312	4 137	5 035	5 880	7 242	11 128	15 453	19772	24 396	28 887	Australia
Brunei Darussalam														1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	4.5	4.5	Brunei Darussalam
Canada		0.3	0.3	0.3	0.3	0.4	1.0	1.3	2.5	4.4	50	188	423	651	1 029	1 567	2 141	2 265	2 493	2 631	2 828	3 068	3 854	4 3 2 3	Canada
Chile														2.0	15	221	576	1 125	1 724	2 298	2 720	3 287	4 712	6 886	Chile
China											30	260	2 120	3 410	15 890	24 860	42 180	76 310	129 420	174 330	204 180	253 430	306 560	392 680	China
Hong Kong, China													1.0	1.0	1.0	1.0	1.0	3.9	5.4	6.1	96	76	160	246	Hong Kong, China
Indonesia													1.2	4.1	9.0	9.0	37	47	54	65	155	163	225	313	Indonesia
Japan		330	453	637	860	1 132	1 422	1 708	1 9 1 9	2 144	2 627	3 618	4 9 1 4	6 632	13 599	23 339	34 150	42 040	49 500	56 162	63 192	71 868	78 413	85 066	Japan
Korea	1.0	4.0	5.0	5.0	6.0	9.0	14	36	81	357	524	651	735	1 039	1 559	2 438	3 467	4 338	5 633	7 7 0 1	10 847	14756	17 905	20 525	Korea
Malaysia															75	161	226	290	358	797	1 050	1 380	1 700	2 782	Malaysia
Mexico	5.0	14	15	16	16	16	16	16	19	19	25	29	39	60	82	116	181	362	620	2 081	5 166	5 612	6 903	9 451	Mexico
New Zealand									3.0	3.0	3.0	3.0	3.0	4.0	8.6	22	37	53	71	91	115	145	192	260	New Zealand
Papua New Guinea			0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9	1.2	1.2	1.3	3.0	3.1	3.6	3.9	Papua New Guinea
Peru														80	80	96	96	96	283	330	343	289	287	287	Peru
The Philippines							1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	23	165	765	885	896	921	1019	1 317	1 530	The Philippines
Russia																227	446	536	574	678	1 418	1739	1 979	2 140	Russia
Singapore																		126	112	157	271	329	487	634	Singapore
Chinese Taipei		0.1	0.2	0.3	0.5	0.6	1.0	1.4	2.4	5.6	10	35	130	231	410	636	884	1 245	1 768	2738	4 150	5 8 1 7	7 700	9 724	Chinese Taipei
Thailand											9.2	26	79	372	792	792	792	2 149	2 664	2 928	2 949	2 957	2 949	3 150	Thailand
United States	339	595	459	457	681	751	881	1 099	1 439	1 618	2 086	3 382	5 644	8 613	13 045	17 651	23 442	34 716	43 115	51 570	60 827	75 794	94 786	112 842	United States
Viet Nam																				86	4 685	8 852	16 564	16 568	Viet Nam

Power generation capacity - Wind

											Megawatts	S													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
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 3 1 8	4 683	5 407	6 409	7 881	10 207	10 555	11 966	Australia
Brunei Darussalam																									Brunei Darussalam
Canada	1.0	92	131	161	327	444	677	1 423	1 840	2 3 3 6	3 282	3 967	5 2 6 5	6 201	7 801	9 694	11 214	11 973	12 250	12 816	13 220	13 532	13 722	15 081	Canada
Chile			2.0	2.0	2.0	2.0	2.0	2.0	20	20	163	163	184	202	301	736	910	1 039	1 302	1 692	1 999	2 293	3 140	3 824	Chile
China		340	380	470	550	820	1 060	2 070	4 200	8 3 9 0	17 600	29 580	46 230	61 420	76 520	96 570	130 750	147 470	163 250	184 270	209 150	281 530	328 480	365 640	China
Hong Kong, China													0.8	0.8	8.0	0.8	8.0	0.8	0.8	0.9	0.9	0.8	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	154	Indonesia
Japan		84	175	277	508	769	1 227	1 805	1 527	1 756	1 997	2 294	2 4 1 9	2 562	2 646	2 753	2 808	3 205	3 483	3 498	3 951	4 119	4 262	4 483	Japan
Korea		14	22	26	38	31	184	190	193	298	333	367	419	492	583	645	853	1 035	1 143	1 303	1 494	1 645	1 709	1 946	Korea
Malaysia																									Malaysia
Mexico	3.0	17	17	18	18	18	18	101	101	101	425	519	601	1 815	2 122	2 569	3 271	4 051	4 180	4 180	6 541	6 995	7 468	7 633	Mexico
New Zealand		36	36	53	72	166	168	169	320	322	513	540	623	623	623	682	689	690	690	690	690	690	913	994	New Zealand
Papua New Guinea																									Papua New Guinea
Peru		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	143	241	240	240	372	372	409	409	539	Peru
The Philippines							25	25	25	33	33	33	33	33	33	283	427	427	427	427	427	443	427	427	The Philippines
Russia		3.0	3.0	7.0	9.0	9.0	10	10	10	10	10	10	10	10	10	101	101	96	98	161	161	899	2 012	2 183	Russia
Singapore																									Singapore
Chinese Taipei		2.6	5.0	8.5	8.5	8.5	24	102	186	250	374	476	523	571	614	637	647	682	692	704	845	854	1 062	1 581	Chinese Taipei
Thailand											2.5	3.3	7.3	95	185	185	185	507	626	1 100	1 504	1 528	1 510	1 543	Thailand
United States	1 911	2 377	3 864	4 417	5 995	6 4 5 6	8 706	11 329	16 515	24 651	34 296	39 134	45 676	59 075	59 974	64 232	72 573	81 287	87 598	94 517	103 670	118 478	132 852	141 501	United States
Viet Nam																46	90	90	90	243	377	538	4 126	5 059	Viet Nam

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Power generation capacity - biomass

											Megawatt	S													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Australia	236	356	203	298	231	294	869	897	920	728	534	620	428	597	631	727	977	864	864	864	864	871	871	871	Australia
Brunei Darussalam																									Brunei Darussalam
Canada	914					1 272	3 449	3 886	3 719	3 807	5 313	5 722	5 615	5 727	3 679	4 193	4 200	4 389	4 410	4 3 8 6	4 051	4 086	4 120	4 156	Canada
Chile		22	22	22	22	22	36	36	44	81	490	526	548	832	1 267	787	830	1 194	1 619	1817	1 530	1 915	1 950	1 950	Chile
China																									China
Hong Kong, China																									Hong Kong, China
Indonesia				1.5	2.6	3.3	3.5	5.2	6.0	10	11	17	34	43			1 671	1 703	1 741	1 759	1 759	1767	2 121	2 925	Indonesia
Japan																		3 656	3 818	4 2 4 3	2 490	2 875	3 580	4 3 3 1	Japan
Korea		479	536	470	67	65	83	70	173	172	149	231	298	320	349	573	578	691	736	774	746	800	924	964	Korea
Malaysia															767	729	974	742	752	552	411	413	411	343	Malaysia
Mexico	52	42	42	53	53	53	67	67	67	67	67	47	53	60	89	96	96	108	106	67	56	56		56	Mexico
New Zealand		104	80	79	86	87	99	101	103	105	102	103	105	105	105	109	110	106	109	109	109	104	104	104	New Zealand
Papua New Guinea		15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	17	17	17	15	15	15	Papua New Guinea
Peru																39	39	137				208	177	196	Peru
The Philippines											30	38	83	119	119	131	221	233	224	258	363	483	294	404	The Philippines
Russia																									Russia
Singapore																									Singapore
Chinese Taipei	62	69	69	98	81	81	77	77	77	77	77	77	77	77	77	77	77	77	77	77	71	71	71	71	Chinese Taipei
Thailand																		2 815	2 939	3 155	3 192	3 505	3 330	3 542	Thailand
United States	7 584	10 274	10 149	10 331	10 313	10 256	10 263	10 557	11 202	11 570	11 771	11 913	12 016	12 628	13 976	14 119	14 284	14 506	14 523	14 257	13 732	13 531	12 967	12 592	United States
Viet Nam							285	285				24	24	54	70	24	45	24	55	175	175	325	325	395	Viet Nam

Power generation capacity - others

											Megawatt	S													
	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Australia												0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.3	0.3	0.3	0.3	Australia
Brunei Darussalam																									Brunei Darussalam
Canada	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20				Canada
Chile											25	25							24	40	40	40	51	83	Chile
China											30	30	190	200	80	190	90	70	70	190	370	410	940	6 7 5 0	China
Hong Kong, China																		41	41	45	45	55	54	45	Hong Kong, China
Indonesia	140	360	360	7 648	7 803	7 666	7 770	8 510	8 680	9 062	9 199	8 779	9 733	10 823	1 370	1 440	1 509	1 613	1 925	2 073	2 259	2 265	2 449	2 5 3 4	Indonesia
Japan	270	533	533	533	535	535	535	532	532	532	535	537	537	512	512	508	517	526	471	473	481	487	487	437	Japan
Korea											22	38	58	89	384	419	434	474	506	603	725	866	998	1 141	Korea
Malaysia						202	293	210	242	164	1 396	221	228	832	3 075	2 411	3 075	152	96	148	235	142	368	470	Malaysia
Mexico	700	855	838	843	960	960	960	960	960	963	965	965	887	824	823	813	906	926	985	4 5 9 8	4 780	4832	4 832	18 664	Mexico
New Zealand	261	418	417	391	401	401	458	458	477	599	636	761	761	787	856	982	1 006	1 001	1 001	1 025	1 025	1 059	1 059	1 066	New Zealand
Papua New Guinea		272	272	272	278	278	72	72	112	400	394	542	542	544	546	321	109	109	109	109	109	109	109	54	Papua New Guinea
Peru																		15				13	14	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	1 939	1 939	2 123	2 158	The Philippines
Russia		23	21	70	70	56	79	87	90	80	81	81	81	81	79	78	78	78	74	74	81	74	74	74	Russia
Singapore				135	460						2.0	4.0	6.0	10	257	257	317	382	112	112				393	Singapore
Chinese Taipei		371	534	534	534	564	606	634	647	647	647	647	643	648	648	648	649	649	649	649	638	647	658	659	Chinese Taipei
Thailand		0.6	0.6	0.6	0.6	2 191	2 218	2 316	2 398	2 480	2 662	2 859	3 041	344	353	353	353	601	548	797	817	759	800	809	Thailand
United States	2 669	2 793	2 216	2 252	2 133	2 403	2 7 6 1	2 750	2 690	2 651	2 755	2 752	2 7 6 4	3 847	4 148	4 523	3 812	3 802	4 524	3 801	3 914	3 936	3 941	3 962	United States
Viet Nam																									Viet Nam

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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, ashfree 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.

<u>Peat</u>

A solid formed from the partial decomposition of dead vegetation under conditions of high humidity and limited air access (initial stage of coalification). It is available in two forms for use as a fuel, sod peat and milled peat.

Patent fuel

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

Coke

Coke comprises coke oven coke and gas coke.

Coke oven coke

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

Gas coke

A by-product from the carbonisation of bituminous coal for the

manufacture of gas works gas. Gas coke is used mainly for heating purposes.

Coal tar

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

BKB/PB

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

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

Gas works gas

This group includes gases obtained from the carbonisation or gasification of carbonaceous material of fossil or biomass origins in gas works. The gases comprise:

Gases obtained from carbonisation or gasification of coal, cokes, biomass, or waste; and

Substitute natural gas (a methane-rich gas) made from synthesis gas.

Coke oven gas

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

Blast furnace gas

The by-product gas of blast furnace operation consisting mainly of nitrogen, carbon dioxide

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

Oxygen steel furnace gas

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

+ Oil

Crude oil

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

It exists in the liquid phase under normal surface temperature and pressure, and usually flows to the surface under the pressure of the reservoir. This is termed conventional extraction. Crude oil includes condensate from condensate fields, and 'field' or 'lease' condensate extracted with the crude oil.

Natural gas liquids (NGLs)

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

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

Refinery feedstocks

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

Additives and Oxygenates

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

- •Oxygenates such as alcohols (methanol, ethanol).
- •Ethers such as methyl tertiary butyl ether (MTBE), ethyl tertiary butyl (ETBE), and tertiary amyl methyl ether (TAME).
- •Esters such as (e.g., rape-

seed 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

¹ BKB stands for Braunkohlenbriketts

² PB stands for Peat briquettes

and hydrogen. Nonconventional oils refer to oils through obtained nonconventional 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 straightchain hydrocarbon (C2H6). 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 (C3H8) and butane (C4HI0) 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 C4 to C12 range.

Motor gasoline

Motor gasoline is a mixture of some aromatics (for example, benzene and toluene) and aliphatic hydrocarbons in the C5 to C12 range. The distillations range is 25°C to 220°C. Motor gasoline may also contain biogasoline products.

Aviation gasoline

Aviation gasoline is gasoline prepared especially for aviation piston engines with additives which assure performance under flight conditions. Aviation gasolines are predominantly alkylates (obtained by combining C4 and C5 isoparaffins with C3, C4 and C5 olefins) with the possible addition of more aromatic components including tol-

uene. The distillation range is 25°C to 170°C.

Gasoline-type jet fuel

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

Kerosene

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

Kerosene-type jet fuel

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

Other kerosene

Kerosene used for heating, cooking, lighting, solvents, and internal combustion engines. Other names of this product are burning oil, vaporising oil, power kerosene and illuminating oil.

Gas/Diesel oil (Distillate fuel oil)

Middle distillates, predominantly

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

Fuel oil

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

White spirit and SBP

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

White spirit

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

SBP

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

Lubricants

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

Bitumen

A solid, semi-solid or viscous

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

Paraffin waxes

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

Petroleum coke

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

<u>LNG</u>

Liquid natural gas is produced

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

New and renewable energy

Fuelwood

Fuelwood (in log, brushwood, pellet, or chip form) obtained from natural or managed forests or isolated trees. Also included are wood residues used as fuel and in which the original composition of wood is retained. Charcoal and black liquor are excluded.

Woodwaste

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

Bagasse

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

Charcoal

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

Other biomass

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

Biogas

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

Landfill gas

Biogas from the anaerobic fermentation of organic matter in landfills.

Sewage sludge gas

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

Other biogas

Other biogases from anaerobic fermentation not elsewhere specified.

Industrial waste

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

Municipal solid waste (renewables)

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

Liquid biofuels

Liquids derived from biomass and used as fuels.

Biogasoline

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

Bioethanol

Refers to ethanol produced from biomass.

Biodiesel

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

Bio-jet kerosene

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

Hydro

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

Geothermal

Electricity and heat generation produced from geothermal plants.

Solar

Electricity from solar photovoltaics

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

Heat from concentrating solar thermal

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

Heat from non-concentrating solar thermal

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

Tide/wave/ocean

Electricity produced from tide/ wave/ocean.

Wind

Electricity produced from devices driven by wind.

Electricity and heat

Electricity

Electricity is an energy carrier

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

Heat

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

Sources of electricity and heat:

Thermal

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

Hydro

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

Nuclear

Electricity and heat generation from nuclear plants.

Geothermal

Electricity and heat generation from geothermal plants.

Renewable energy

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

Solar

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

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

Tide/wave/ocean

Electricity produced from tide/ wave/ocean.

Wind

Electricity produced from devices driven by wind.

Biomass

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

Waste

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

Others

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

B. Definition of flows

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 '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 classified travel are 'international marine' '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 condi-

tions 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 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.

<u>Combined heat and power plants</u> (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 'cogeneration' 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 airconditioning.

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 inmanufacture cludes the 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 consump-

tion (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 semitrailers (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 to-

bacco

- ⇒ 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 ap-

parel (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 in-

cluded 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.

Fishina

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

nergy 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 of 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

por presenting its energy balances, APEC has adopted kcal and Joules. 107 kcal or 41.868 gigajoules (GJ) is equivalent to one ton of oil equivalent (toe). This quantity of energy is, within a few per-

cent, equal to the net heat content of one ton of crude oil.

<u>Conversion (from original to TOE)</u>

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.

<u>Layout</u>

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 de-

- fined 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.

<u>Rows</u>

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

- Row 1: Indigenous production shows only production of primary energy, i.e., hard coal, lignite, crude oil, NGL, natural gas, hydro and nuclear, geothermal, etc. electricity and others.
- Row 2/3: Imports and exports comprise amounts having crossed the boundaries of the economy with or without customs clearance.

- Row 4/5: International marine and aviation bunkers cover those quantities delivered to sea-going ships and international flights of all flags. Consumption by ships and planes engaged in transport in inland and coastal waters is not included.
- Row 6: Stock changes are treated as follows: a decrease in stocks, shown in the table as a positive number, is added to supply and an increase in stocks, shown as a negative number, is deducted from supply. Producers', importers', energy transformation industries' and large users' stocks are included.
- Row 7: Total primary energy supply (TPES) is made up of indigenous production (row 1) + imports (row 2) exports (row 3) international marine and aviation bunkers (row 4/5) and ± 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 (row13) + 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 transforconsumed by mation 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 cludes 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 fi-

- bers (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 nonspecified 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 busi-

ness and offices in the public and private sectors.

- Row 34: Consumption of the agriculture sector.
- Row 35: Other shows nonspecified 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

oal 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 thecase 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.

1010 kilocalories = 1 ktoe = 0.041868 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 bio- mass	2 986

Average net calorific values of energy products for 2022

																k	J/kg (kJ/m ³ for N	latural Gas
	Australia	Brunei Darussalam	Canada	Chile C	China ^H	Hong Kong, China	Indonesia J	apan Korea	Malaysia	Mexico	New Zealand	Papua New Guinea		The Russ	ia Singapore	Chinese Taipei	Thailand United States	Viet Nam
Coal																		
Anthracite	26 700		26 381 2	29 650			30 525 2	7 246 20 304	1	27 060				29 0	00	28 240	31 400 30 945	21 69
Coking coal	28 500		24 986 2	28 638			2	8 015 28 010)	28 765	28 611			28 5	00	27 882	27 630 28 374	1
Other bitumin ous coal	25 700		27 226 2	21 436 2	2 513	26 370	20 096 2	3 606 23 697	7 26 394	25 875	28 414		29 308	25 3	42 25 800	23 685	26 933	3
Sub-bituminous coal	18 478	22 666	17 897					19 887	7	20 348	19 669			22 098		19 528	19 155	5
Lignite	9 800		14 019				18 751			11 186	17 274			14 9	18		13 720 13 837	7
Peat							15 572							9 9				
Peat products							13372							17 5				
Coal Products														17.5	03			
Patent fuels								19 385										
	27.000		27.457.	20 547 2	0.460					20.405	20 500		20.200	20.0	4.5	27.042	20.00	
Coke oven coke	27 000		27 457 2				_	28 889		28 105	29 500		28 200	29 0	15	27 842	28 865)
Coal tar	35 714		3	38 841 3				5 393 37 000)	37 970								
BKB/PB (Coal briquettes)	21 951				7 796		21 803			18 000								
Gas works gas				4	1 868													
Coke oven gas				4	1 868													
Blast furnace gas				4	1 868													
Oxygen steel furnace gas				4	1 868													
Crude oil and NGL																		
Crude oil	43 282	45 000	42 790 4	43 203 4	1 868		43 199 4	1 973 42 203	43 333	43 509	42 694	42 370	42 747	41 471 42 0	77 42 705	41 966	42 257 42 827	42 67
Natural gas liquids	45 410							5 316					42 747	48 081 41 9			42 239 44 888	
Refinery feedstocks	43 282							2 500 47 164		42 350		12 370	43 767	10 001 11 3		41 966	43 538	
	43 202	40 181		22 651			7	44 079		34 055	45 004		43 / 0/		42 033	41 966	45 550	,
Additives/oxygenates					1 000		-									41300	F4 00	
Other hydrocarbons		19 900	41 868	4	1 868			3 687	42 1 19	41 868							51 004	+
Petroleum products	40 100		40 400	40 100 4			40 100 4	0.100 40.100	. 40 100	40 100	40 100		40 100		40, 400	40.200	40.400	
Refinery gas	48 100		48 100 4	48 100 4	10 055		48 100 4	8 100 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					41 868	46 865 4	7 700 47 700) 45 544	47 300	47 700		47 300	45 049 46 0		48 962	49 225 47 300	
Motor gasoline	44 600	44 749			3 124	41 868	43 746 4	4 600 44 600	43 961	44 800	44 600	44 606	44 800	44 255 44 0	00 44 800	41 868	42 490 44 800	43 93
Aviation gasoline	44 600		44 800 4	44 800			47 185 4	4 600 44 600)	44 800	44 600			43 508			44 800)
Gasoline-type jet fuel																		
Kerosene-type jet fuel	44 500	44 581	44 600 4	44 600 4	3 124	41 868	45 049 4	4 500 44 500	43 199	44 600	44 500	44 517	44 600	41 687 43 0	00 44 600	39 626	43 015 44 600	43 09
Other kerosene	42 900	44 581	43 800 4	43 800 4	3 124	41 868	46 792 4	2 900 42 900	43 208	3	42 900	42 846	43 800	41 262	43 800	41 739	43 167 43 800	43 09
Gas/diesel oil	42 600	43 379	42 600 4	43 300 4	2 705	41 868	47 687 4	2 600 42 600	42 496	42 600	42 600	43 063	43 300	42 072 42 6	00 43 300	39 586	42 858 42 600	42 67
Fuel oil	42 600		40 200 4	40 200 4	1 868	41 868	47 321 4	2 600 42 600	41 500	40 200	42 600	44 047	40 200	41 111 40 0	00 40 200	40 449	42 309 40 200	41 42
Naphtha	43 200		45 000 4			41 868		3 200 43 200		45 000		43 967		46 183 44 0		43 944	45 000	
White spirit SBP			43 000		8 418			3 000 43 000			43 000			43 6		48 179	43 000	
Lubricants	42 900	41 801			8 418			2 900 42 900		42 000	42 900			41 914 42 0		43 048	42 000	
	38 800				8 418			8 800 38 800			38 800			38 718 39 0		38 430	40 000	
Bitumen	30 000	40 001	40 000															
Paraffin wax	22.000		22.000		8 418			0 000 40 000			40 000		22.000	40 0		44 691	40 000	
Petroleum coke	33 800		32 000 3					3 800 33 800			33 800		32 000			28 361	32 000	
Other products	40 000	46 151	40 000 4	40 000 3	8 9 / 9		40 000 4	0 000 40 000) 42 496	40 000	40 000		40 000	41 299 40 0	00 40 000	41 494	42 309 40 000) 41 44
Natural gas																		
Natural gas	35 916	35 144	35 423	35 198 3	7 260	40 659	37 199 3	6 662 37 543	39 249	32 431	36 101	38 372	32 750	34 456 34 5	56 34 200	33 494	36 098 35 111	37 68
New and renewables																		
Fuel wood and wood waste							14 059							13 777			15 990	
Bagasse														17 816			7 530	
Charcoal							30 414 2	9 300	28 889)	29 600		27 214	25 105 30 8	00		28 880	30 80
Other biomass				2	9 308									17 690			12 653	
Industrial waste				2	0 515													
Municipal solid waste														17 816			4 860	
Biogasoline	26 800		26 800	2	9 308		2	6 800			26 800		26 800			22 169		26 80
Biodiesel	36 800		36 800		9 308			6 800 41 956	36.800)	39 860		36 800			35 169	42 620	
Other liquid biofuels	50000			_				36 800			000		22 000			05	21 583	

Other liquid biofuels

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

F Currency codes

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

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