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ASIA PACIFIC ENERGY RESEARCH CENTRE

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PREFACE

The APEC Energy Statistics 2015 consists of the following chapters:

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

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

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

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

Chapter 3 consists of annual tables of each member economy. The annual tables contain energy balance tables for 2015 and 2014 and Energy Prices for 2015. The annual tables also include major energy indicators such as primary energy supply, final energy consumption, demand and supply by energy sources as well as major economic indicators such as population, GDP, balance of payments, foreign exchange rate, purchasing power parity, price indices and so on. These tables cover the data from 1990 to 2015. The objective is to report the most recently updated data.

APEC Energy Statistics 2015 is derived from the APEC energy database, the purpose of which is to establish a comprehensive and consistent energy database within the APEC region. This database will be used to assist in the identification of significant trends in energy supply and demand consistent with projects and priorities under the APEC Energy Working Group. It is prepared in close cooperation with member economies.

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1 Background information on APEC energy statistics

Data collection in APEC started in 1991 with the creation of an expert group on energy data and analysis 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 coordinating agency (CA) with the role of secretariat and implementer of data collection and maintenance of the APEC energy database. The role of CA was transferred to the Asia Pacific Energy Research Centre (APEREC) in 2015. The CA compiled energy data as far back as 1970 from the 21 member economies depending on data availability. The APEC Energy Statistics was published annually since 1993 and this year's publication is the 25th edition.

This publication consists of energy data submitted by each member economy as well as socio-economic data collected by the CA 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 APEREC.

Energy data

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

Collection format for original energy data

Most of the items found in the APEC energy statistics are based on data submitted by the APEC member economies using a set of questionnaires for oil, coal,

natural gas, electricity and heat, as well as new and renewable energy (NRE). These questionnaires were developed in 2005 for the collection of annual data for the year 2004. These are simplified forms of the annual energy questionnaires of the International Energy Agency (IEA) through the harmonisation efforts of the CA with the IEA. 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 of the APEC annual energy questionnaires, the member economies submitted the following information:

- Supply and demand information for specific types of energy products
- Power generating capacity by type of power plants
- Demand and supply information of NRE

The data are reported in the following required units:

Coal and Solid Coal Products	1000 Metric Tons
Gaseous Coal Products	10 ¹⁰ kcal (gross)
Oil and Oil Products	1000 Metric Tons
Natural Gas	Million Cubic Meters
LNG	1000 Metric Tons
Solid and Liquid Bio-fuels	1000 Metric Tons
Biogas	10 ¹⁰ kcal (gross)
Electricity (including renewable)	GWh
Heat	10 ¹⁰ kcal (gross)

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

Coal, Oil, NRE	kcal/kg
Natural Gas	kcal/cubic meter

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

Table 1.1a • Energy products in the APEC energy database

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

Table 1.1b • Energy flows in the APEC energy database

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

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

For OECD member economies that also submit annual energy demand and supply data to IEA, the CA accepts data submission using the IEA format. The CA also downloads the revised questionnaires from IEA's Energy Data Centre. The CA developed computer programs to transfer data from the IEA format to APEC format and to generate energy balance tables. This reduces the reporting burden of these economies to IEA, APEC and other international energy organisations.

Collection schedule and actual dates of submission

The CA set the deadline for submission to the end of March 2017. In principle, all 21 APEC members are expected to submit annual data by this deadline. Seven economies were able to submit the five energy questionnaires on time. These are Australia; Canada; China; Hong Kong, China; Japan; the Philippines and Chinese Taipei. However, Hong Kong, China's submissions were preliminary and were finalised only in September 2017. Four non-OECD APEC economies (Indonesia; Malaysia; Singapore and Thailand) submitted after March 2017. Papua New Guinea; Peru and Viet Nam did not submit their respective questionnaires, but Peru and Viet Nam were able to

provide the energy commodity balance and energy balance tables.

Method of data submission

Member economies submit the data files as email attachments. Correspondence for the improvement of data consistency and accuracy had also been carried out mostly through the email communication.

Method of estimation

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

For instance, as Papua New Guinea was not able to submit its annual energy questionnaires, the CA estimated its energy data using various references such as the JODI Oil and JODI Gas data, the annual report of Oil Search Limited, an oil company based in the economy, and information from the economy's privately-operated geothermal power plant. No information on NRE (except for hydro) was available for the economy. From those data and the economic indicators collected from World Bank for the year 2015, the CA estimated the final energy consumption, electricity generation and inputs as well as imports of petroleum products. The CA is hoping that Papua New Guinea would be able to produce its own energy statistics and balances in the future.

As regards Singapore, although the economy submitted the questionnaires, the data lacked the level of details that the energy balance table requires. Hence, the CA as advised by Singapore, used the energy statistics and energy balance produced by IEA as the economy agrees with IEA's methodologies and estimates.

Finally for Peru and Viet Nam, the CA was able to fill-out the questionnaires and consequently produced

the required energy balance tables through the submitted energy commodity balance and energy balance tables.

Standardisation

The APEC reporting format used in the collection of 2015 annual data, gives member economies the flexibility to report data in the original units 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. The CA however, does not standardise the conversion factor from physical to energy units in view of the peculiarities in the thermal quantity of each energy product from the different economies. In this regard, the CA makes use of the calorific value data reported by each economy as opposed to using typical conversion factors.

Conversion factors for fossil energy from physical to thermal units

Between the two calorific values, namely gross and net calorific values, APEC adopted the net calorific value agreed from the third experts meeting held in Singapore 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, the CA converts them to net calorific values by:

Coal / Oil	multiply the value by 95%
Gas	multiply the value by 90%

Conversion factors for primary electricity

Table 1-2 shows the factors applied to convert primary electricity – i.e. power generated from non-

fossil fuel sources such as hydro, nuclear, geothermal and other power generation – to primary energy units. To allow comparisons of primary energy supplies, in the light of differences in conversion coefficients, standardisation is required. APEC adopted the following efficiency of primary electricity generation for compatibility with IEA and UN statistics.

Table 1.2 • Efficiency of primary electricity generation

Primary Electricity	Efficiency
Hydro Power	100%
Nuclear Power	33%
Geothermal Power*	10%
Other New Power	100%

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

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

Secondary data

Using the original data submitted by the member economies, the CA prepares the following tables through the standardisation process.

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

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

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

Energy balance table

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

- APEC statistics are basically based on official data provided by national government agencies of the member economies, and thus, agencies exclude any data not reported to the government. It is assumed that the IEA estimates these quantities.
- For this reason, some data for private power generations are missing in some member economies. Likewise, some economies have no consumption of biomass in the residential sector.
- The reporting period differs in APEC and IEA surveys.

The APEC energy balance table consists of two tables, quoted in ktoe (10^{10} kilocalories) and in petajoules (PJ equivalent to 10^{15} joules).

Other tables

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

The primary energy supply table shows information that constitute the primary energy supply, namely, indigenous production, imports, exports, stock

change, and international marine and aviation bunkers in terms of calorific values (ktoe and PJ), for each of the four categories of coal, petroleum, gas, and primary electricity (hydro, nuclear, geothermal power, etc.).

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

The demand and supply table for each energy source emphasises coal, petroleum and gas, and shows how the primary supply quantity is consumed in the transformation and final energy consumption sectors.

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

Notes on member economies

General notes

Most of the member economies' annual data are tallied by calendar year (1 January - 31 December) except for Australia; Australia's energy statistics are accounted by fiscal year (1 July - 30 June).

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

Specific notes

• *Japan*

Energy data from 2000 are not official data prepared

by the Japanese Government. The CA used data in the energy balance table produced by the Institute of Energy Economics, Japan to maintain consistency of data from before 2000.

• **Papua New Guinea**

The CA estimated the energy balance tables of Papua New Guinea from 2004 to 2015. Data were taken from the crude oil and natural gas production, refinery intake and output data as well as crude oil exports that PNG submits monthly to Joint Organisations Data Initiative. Data on geothermal electricity production were obtained via online research. There is no reliable information on biomass use especially in the household sector, so CA did not estimate consumption of this energy source. Despite the absence of estimates, it is believed that the consumption of this fuel is substantial in the economy considering the relatively low electrification rate and the large portion of the population living in the rural areas.

• **Singapore**

Singapore submitted aggregated data on production and consumption of petroleum products. From the 2014 data, upon the advice of the focal point in the economy, the CA obtained the data (with permission of IEA) from IEA's energy statistics.

Socio-economic data

The socio-economic data of each member economy

shown in the APEC Energy Statistics are not reported by the member economies, but are prepared by the CA. The data are obtained from the *World Development Indicators* of the World Bank and *The International Financial Statistics Yearbook* of the International Monetary Fund (IMF). The data of Chinese Taipei that are not available in these statistics, are derived from the *Chinese Taipei Statistical Data Book*. This book is regularly provided to the CA through the goodwill of this member economy. The items which the CA takes from this publication are:

- Population
- GDP and its components
- Index of Industrial Production
- External Trade (in US dollars)
- Balance of Payment (in US dollar)
- Exchange Rate
- Prices (CPI, etc.)

In addition to reporting GDP in the member economy's currency, the CA provides estimates in real and nominal dollars as well as real Purchasing Power Parity (PPP) values.

APEC energy database

The CA has established the online APEC energy database, which contains all the data in the APEC energy statistics. The database can be accessed at: <http://www.egeda.ewg.apec.org/>.

2 Overview of APEC Energy Situation

Background

This Overview gives a detailed look on the energy situation in APEC in 2015. It also provide an analysis of the total APEC economy compared to the world. For a better understanding of the terms used in the Overview, definitions of terms are also provided in the Appendices. Specific analyses mostly referred here are by region. For ease of comparison this Overview followed the regional groupings of APEC Energy Demand and Supply Outlook as follows:

- Other Americas

Canada; Chile; Mexico; and Peru

- South-East Asia

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

- Oceania

Australia; New Zealand; and Papua New Guinea

- Other north-east Asia

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

- China;

- Russia; and

- The United States

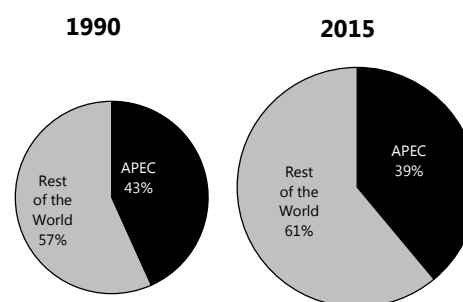
APEC and the world

The following briefly describes APEC in terms of population, GDP and total primary energy supply as compared to the world in 2015 and over the period 1990 to 2015.

Overall population growth in APEC has been slowing down. From the 0.9% compound annual growth rate (CAGR) between the periods 1990 to 2010, CAGR went further down to 0.7% from 2010 to 2015.

Population in APEC stood at 2.85 billion in 2015 from 2.29 billion in 1990. Population of the rest of the world, while also slowing down for the last three years, posted a CAGR of 1.6% from 1990 to reach 4.5 billion in 2015.

Figure 2.1 • World population, 1990 and 2015



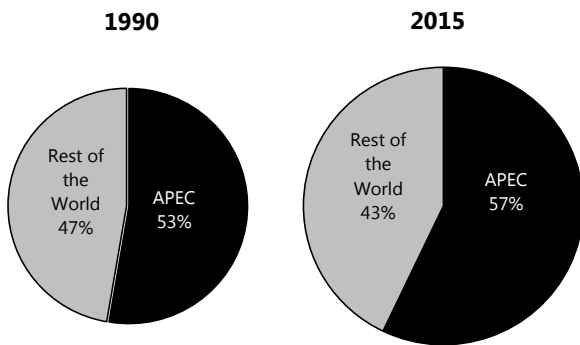
Source: World Bank

The sluggish growth in APEC population is not reflected in some subregions in APEC. As most economies grew only by less than one per cent including the three largest regions, China (0.5%); US (0.7%) and Russia (0.2%). The almost 20 million increase in population from 2014 to 2015, was contributed mainly by the more than one per cent increase in population in Oceania (1.6%), South-East Asia and other Americas (both with 1.2%). The slow growth in APEC population, resulted in a decrease of its share to the world's population from 43% in 1990 to 39% in 2015 (Figure 2.1).

In contrast to its decreasing share in world population, APEC outpaced the world in economic growth. Its GDP (constant USD) surged faster at 5.5% CAGR compared to the rest of the world at 4.0% CAGR over the period 1990 to 2015. China (14.3%); South-East Asia (8.1%) and Oceania (6%) were among the leading growth regions during this period. APEC remained the world's growth leader with a 3.1% increase in GDP (constant USD) from 2014 to 2015. The rest of the world grew by only 2.4% during the same period. Growth picked up across two of the

largest regions in APEC, namely China (6.9%) and US (2.9%). Most economies also recorded positive growth rates except for Russia (-2.8%) and Brunei Darussalam (-0.6%). The sharp drop in oil prices since mid-2014 has affected the growth of these economies which are net oil exporters. Nevertheless, APEC GDP (constant USD) dominated the world GDP (constant USD) in 2015 with a 57% share. This was a four percentage point rise from the 1990 level of 53% (Figure 2.2).

Figure 2.2 • World GDP (constant USD), 1990 and 2015

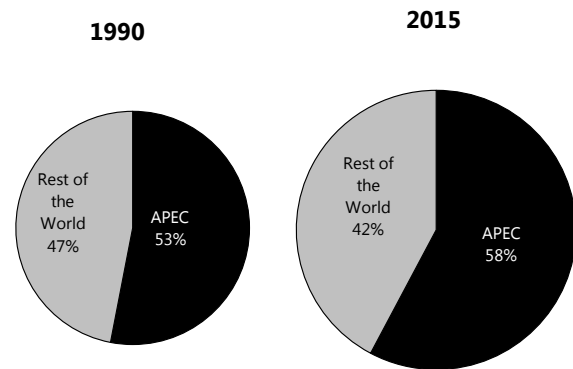


Source: World Bank

Relatedly, in terms of primary energy supply, APEC accounted for 58% of the world's total primary energy supply (TPES) in 2015 (Figure 2.3), an increase from 53% in 1990. Although its share dipped by 0.4 percentage point from the total in 2015 relative to 2014, the CAGR of TPES was 2.1% between 1990 and 2015.

In 2015, APEC TPES stood at 7 885 Mtoe, a 0.4% drop from the 2014 level. This can be attributed to the decline in the energy consumption in major economies and subregions in APEC such as the United States (1.3%), Russia (2.0%), other Americas (1.4%) and other north-east Asia (0.1%). On the other hand, there were increases in TPES in China (0.4%), Southeast Asia (2.0%) and Oceania (0.9%).

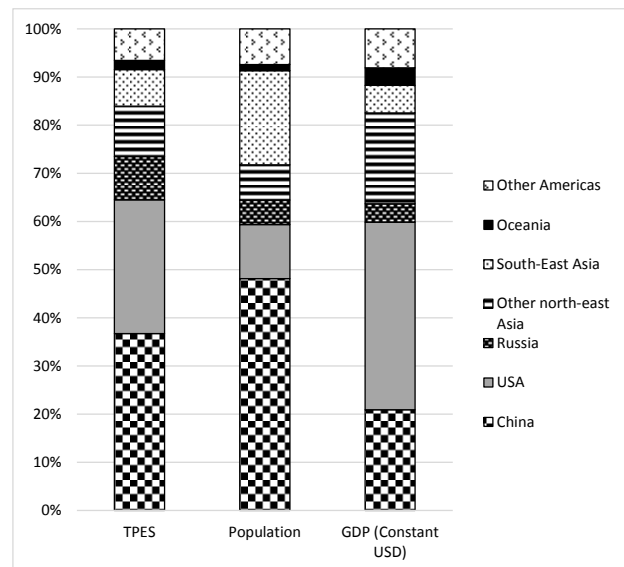
Figure 2.3 • World total primary energy supply, 1990 and 2015



Source: APEC and IEA

Generally, the relative shares of GDP, population and TPES of the subregions in APEC varied from one another (Figure 2.4). Nevertheless, the top regions in terms of TPES in APEC in 2015 were, China (21%); the US (16%) and other north-east Asia (6%), the combined amount of which was more than the amount of TPES of the rest of the world (42%).

Figure 2.4 • TPES, Population and GDP in APEC, 2015



Sources: APEC, IEA and World Bank

Overview of APEC energy situation

Key energy trends in APEC from 1990 to 2015 are described in the following sections.

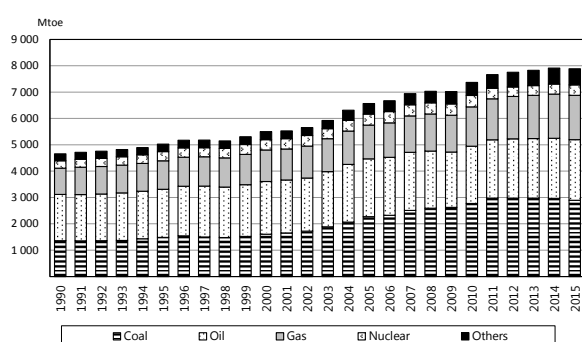
Energy supply trends in APEC

Total primary energy supply

Total primary energy supply (TPES) in APEC in 2015 stood at 7 885 Mtoe, a decline by 0.3% compared with 2014 levels (7 912 Mtoe). Although slowing down for the last five years, this is the first time since 2010 that TPES in APEC posted a negative growth rate. (Figure 2.5).

Coal significantly contributed to the negative growth in TPES in APEC as it declined by 73 Mtoe or 2.5% falling to 2 896 Mtoe in 2015 from 2 969 Mtoe in 2014. The decline in total coal supply can be attributed to the substantial decrease in the US (-13.3%) as well as China (-1.9%) and other north-east Asia (-1.7%). Given this decrease, its compounded annual growth rate (CAGR) between 1990 and 2015 dipped by 0.2 percentage point as compared with previous year's CAGR. Despite this drop, coal still has the largest share in the APEC primary energy mix at 38%.

Figure 2.5 • Total primary energy supply, 1990-2015



Source: APEC data

Oil remained to be the second largest fuel in APEC in 2015 with its share of APEC TPES unchanged since 2010 at 29%. It grew modestly by 0.8% to reach 2 298

Mtoe in 2015. This is slower than the 1.1% CAGR between 1990 and 2015. Most of the regions in APEC experienced negative growths in total oil supply from 2014 to 2015, except for China (5.7%) and the US (1.5%), two largest oil consuming regions in APEC, offsetting the downturn in total oil supply in 2015.

Data improvement between 2014 and 2015 shown gas supply increasing to 2.0% in 2014 instead of 0.5% as previously reported. In 2015, gas supply posted a 0.6% rise from the 2014 levels to reach 1 684 Mtoe. The CAGR of gas supply over the period 1990-2015 was 2.1%.

Nuclear supply continued its recovery with a robust 3.8% increase from 2014 reaching 395 Mtoe in 2015. This was largely contributed by the huge increase in China (28.9%) from 35 Mtoe in 2014 to 45 Mtoe in 2015. Its share to APEC TPES remained minimal at 5% while CAGR was 1.3% between 1990 and 2015.

Geothermal, solar and wind energy, collectively grew by 9.9% or 7.9 Mtoe from 2014 to 2015. Although the total share of these renewable energy sources remained modest at 1.1% of APEC TPES, the CAGR over the period 1990 to 2015 was the highest among the fuels at 4.6%.

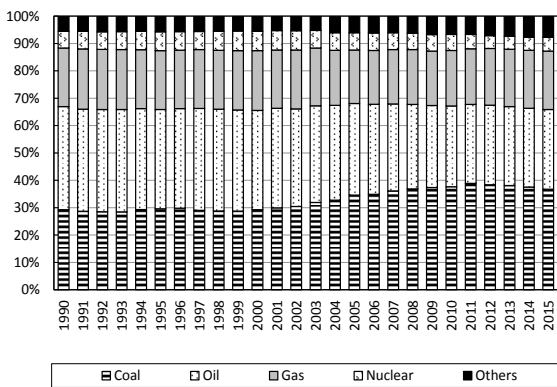
Primary energy mix by region

APEC relies mostly on fossil fuels with 87.2% share of TPES in 2015 (Figure 2.6). Coal which took over the place of oil as the major fuel in 2005 continued to dominate in China with 68% share of the economy's TPES. Oil and gas, the second and third largest fuels in APEC respectively, were dominant in the US. More than one-third of their respective totals in APEC in 2015 were consumed in the US.

Mixes of primary energy per region varied significantly. Different pattern of energy mixes, especially on the major fuels, were observed in three

biggest regions in APEC. China, aside from accounting for the largest share of total coal supply in APEC, its overall primary mix consisted of coal (68%), oil (18%) and other fuels (6%). The top three fuels in the US in 2015 were oil (36%), gas (30%) and coal (17%). US has the largest share of nuclear with more than 50% of APEC total nuclear supply. In Russia, gas (51%) comprised the largest of its energy mix, followed by oil (22%) then coal (16%).

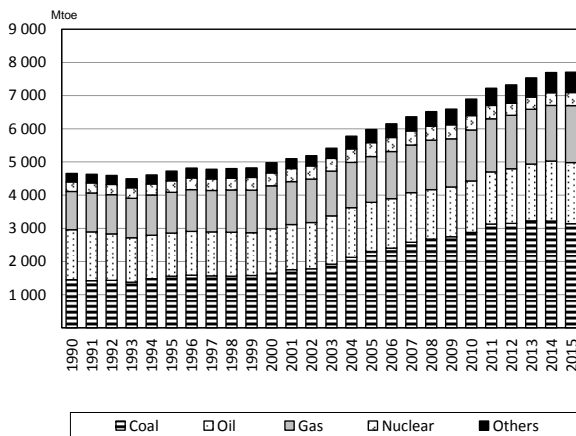
Figure 2.6 • Primary energy mix, 1990-2015



Source: APEC data

In the remaining regions: other Americas, other north-east Asia, South-East Asia and Oceania, oil was the common major fuel— comprising more than one-third of their respective primary energy mixes in 2015 (Figure 2.7).

Figure 2.7 • Primary energy mix by region, 2015



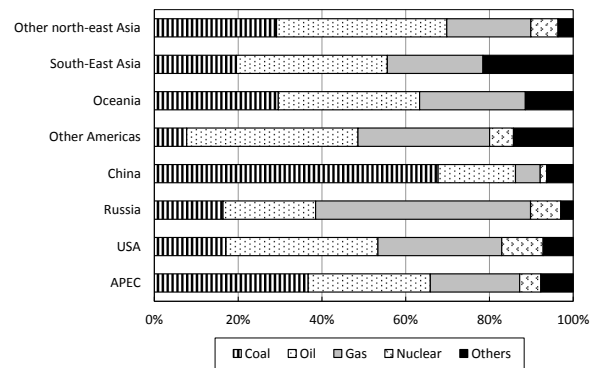
Source: APEC data

While most of these regions consisted of either coal or gas as the second or third major fuel, other fuels is the third largest in South-East Asia’s energy mix in 2015. Other fuels include traditional biomass which is used widely in the rural areas.

Indigenous production

Indigenous energy production increased very minimally by 0.1% in 2015 (7 704 Mtoe) from the 2014 levels. This was a 2.1 percentage point drop from the previous year’s growth (2.2%) significantly caused by the 2.5% decrease in coal production. Nuclear production continued to improve with 3.8% increase from the 2014 levels. Although there was a big gap in the production rate from the previous year, the CAGR between 1990 and 2015 was maintained at 2.0% (Figure 2.8).

Figure 2.8 • APEC Indigenous production, 1990-2015



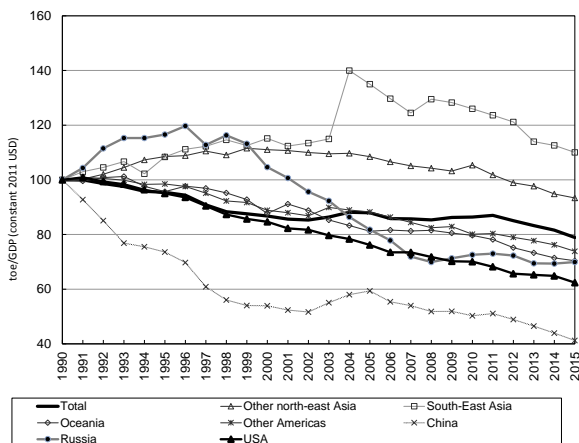
Source: APEC data

Primary energy intensity

Given that APEC TPES slowed down in 2015, its primary energy intensity (*Total primary energy supply/GDP* (in 2011 USD PPP) has improved. The primary energy intensity was estimated at 185 toe/million (2011 USD PPP) in 2015, a 3.3% reduction over the previous year’s primary energy intensity level and 21% improvement over the 1990 level (235.1 toe/million (2011 USD PPP). On regional level, China’s primary energy intensity continued to

improve with 6.1% reduction from the 2014 level, followed by the US (-3.8%) and other Americas (-3.1%) (Figure 2.9).

Figure 2.9 • Primary energy intensity by region, 1990-2015

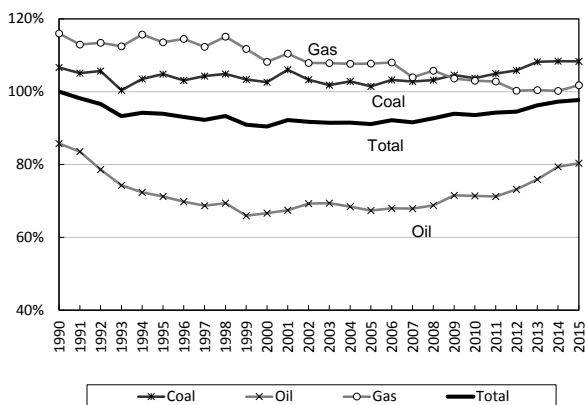


Source: APEC and World Bank

Self-sufficiency

APEC continued to prove self-sufficient over the years. In 2015, although minimal, the overall self-sufficiency level (*Indigenous production/ Total primary energy supply*) increased by 0.4 percentage point from the 2014 levels of 97.1%. The self-sufficiency ratio of oil continued to be the lowest (80.3%) among all the fuels in APEC in 2015.

Figure 2.10 • APEC energy self-sufficiency, 1990-2015

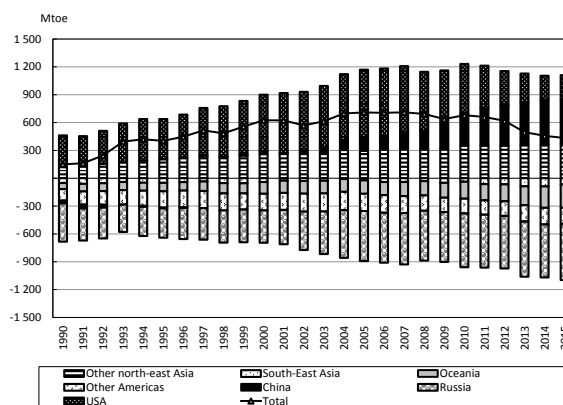


Source: APEC data

Net imports by region

APEC region as a whole is a net importer. Imports declined by 4% in 2015. Its net imports (*Imports – Exports*) reached 432 Mtoe in 2015, 5% lower than net import levels observed in 2014. Between the periods 1990 to 2015, the CAGR of net imports was 4.3% (Figure 2.10). On regional level, China, other north-east Asia, and the US were net importers in 2015 while the remaining regions in APEC were net exporters, the biggest of which was Russia.

Figure 2.11 • Net imports by region, 1990-2015



Source: APEC data

Power generation

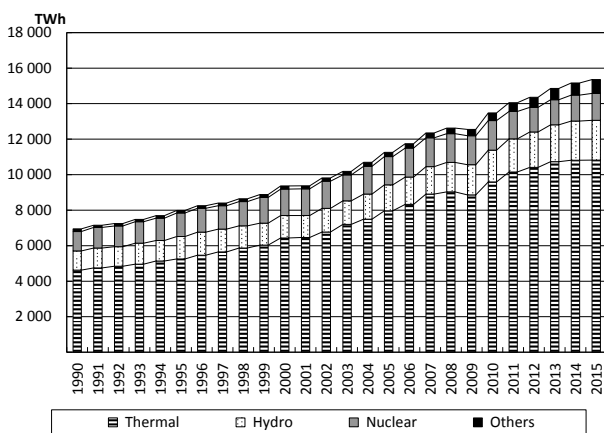
Electricity demand in APEC is continuously increasing, although in 2015, power generation increased a bit slower than the previous year. Total power generation reached 15 353 TWh in 2015, a 1.2% expansion but 0.9 percentage point lower than the 2014 growth. Given this slower growth, power generation between 1990 and 2015 posted a 0.1 percentage point lower CAGR (3.2%).

Albeit the minimal growth (+0.1% to reach 10 817 TWh in 2015), electricity sourced from fossil fuels continued to dominate the total power generation in APEC, maintaining 70% of total generation output in 2015. Its CAGR over the period 1990-2015 is still significant at 3.5%. Electricity output from

hydropower and nuclear came second (15% share) and third (10% share) of APEC's power generation in 2015, increasing by 1.5% and 3.8%, respectively.

Although the shares from the total power generation were marginal, other power sources [other renewables (4.7%)] and geothermal (0.4%) offset the slight increase in thermal power generation in 2015 with a robust 14.4% (721 TWh) and 3.0% (57 TWh) increases, respectively from the 2014 levels.

Figure 2.12 • Power generation by type, 1990-2015



Source: APEC data

Power generation mix by region

Power generation by region varied in 2015. The huge share of fossil fuel in total generation in APEC of 70.5% was contributed mainly by coal (46.1%), gas (22.6%) and oil (1.9%). Generation output from hydropower increased slower than 2014 at 1.5% to reach 2 223 TWh in 2015. This still kept hydro to remain as second biggest source of power generation in APEC at 14.5%. Nuclear energy contributed 10% while other sources such as geothermal, solar, wind and others contributed the balance of 5%.

South-East Asia's primary energy mix had the highest contribution from fossil fuels among subregions in APEC. Fossil fuels comprised 84.8% of the total power generation. However, the largest contribution among

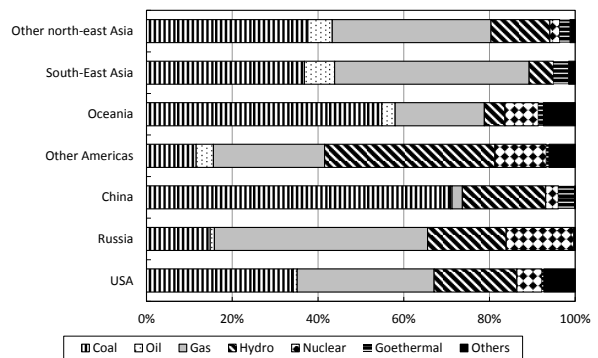
the fossil fuels is natural gas with 42.5%. Coal and oil had 36.5% and 5.8% shares, respectively. In this subregion, the share of new and renewable energy (NRE) is 15.2%.

Other north-east Asia had the second largest share from fossil fuels. In this subregion, however, the largest fossil fuel source was coal with 37.7% followed by natural gas with 37.0%. Nuclear energy in this subregion comprised 10.8% of the total power generation. NRE's share was 8.7%.

The next subregion with highest fossil fuel source was Oceania with 76.3%. Among this fossil fuels, coal had the largest share of 53.4%. Natural gas followed with 19.9%. The share of NRE was 23.7%.

China's power generation mix had 73.7% fossil fuel share with coal taking the largest chunk of 70.9%. Natural gas had a small share of 2.4%. Hydro was big in China with a 19.4% share. Nuclear energy followed with 3.9%.

Figure 2.13 • Power generation mix by region, 2015



Source: APEC data

The USA's power generation mix had a 67.2% fossil fuel component, 34.3% of which coming from coal and 32.0% from gas with oil taking the balance. Nuclear energy had the largest contribution (in APEC) of 19.3%. NRE including hydro contributed 13.5%.

Russia had the second smallest power generation from fossil fuels among APEC subregions at 65.5%,

49.7% of which coming from natural gas and coal with only 14.9%. Nuclear energy in Russia has the second largest share in APEC of 18.3% while NRE had 16.1%.

Other Americas' power generation mix had the lowest fossil fuel contribution of 41.7%, broken down as gas (26.0%), coal (11.6%) and oil (0.4%). This subregion has the largest contribution from hydro of 39.9%. Nuclear has 12.0% while other NRE had 6.3%.

Energy demand trends in APEC

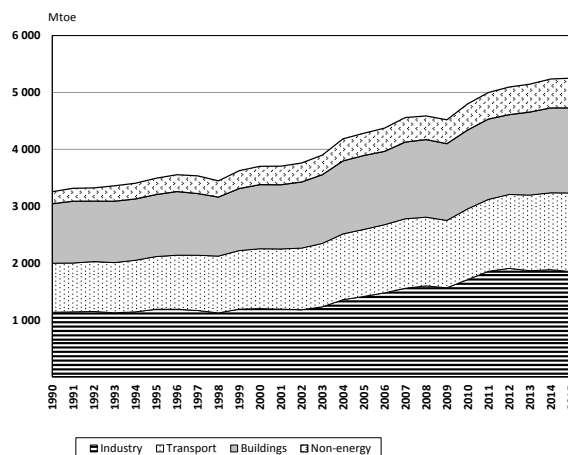
Total final energy consumption by sector

Similar trend happened in total final energy consumption (TFEC), just like in total primary energy supply in 2015. A slower growth of 0.01% was recorded in 2015 to reach 4 728 Mtoe. This is the first time in which TFEC grew less than 1% since it started to slow down in 2010. Even so, the CAGR of TFEC between 1990 and 2015 remained at 1.8%. The weakening of TFEC should not be regarded negatively, as slower energy growth is also indicative of the trend towards energy efficiency. If non-energy use is added, total energy consumption in 2015 reached 5 250 Mtoe or 0.3% more than 2014.

In 2015, energy use by sector did not change from 2014. Including non-energy, industry continued to be the leading consuming sector (35%) followed by buildings (residential, commercial and agriculture sub-sectors combined) sector (29%) then transport sector (26%) and finally non-energy use (10%) (Figure 2.13).

Interestingly, while the industry was the major energy consuming sector in APEC, it declined by 1.8% from its 2014 consumption levels to reach 1 849 Mtoe in 2015. If non-energy use is included, total industry consumption reached 2 372 Mtoe which is half of the TFEC in 2015.

Figure 2.14 • Total final energy consumption in APEC by sector, 1990-2015



Source: APEC data

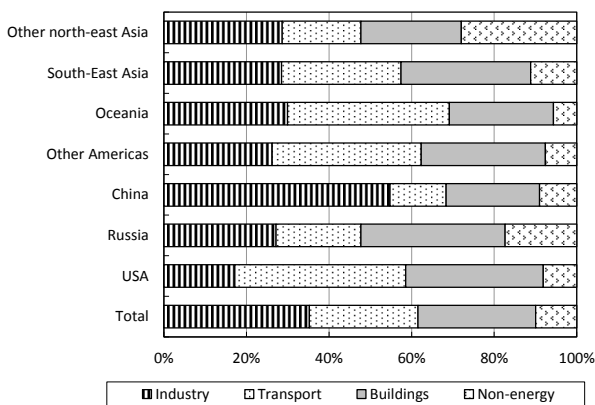
Although the buildings sector was the second largest consuming sector in APEC, its consumption grew minimally in 2015 (0.2%) reaching 1 496 Mtoe. Over the period 1990 to 2015, its CAGR reached 1.4%. The transport sector meanwhile grew faster than industry and buildings sectors at 2.3% in 2015 or 1 383 Mtoe. The increase from 2014 to 2015 was even faster than its CAGR between 1990 and 2015 at only 1.9%.

As in previous years, non-energy use in industry swelled faster than other major energy sectors in APEC. It posted an upward trend of 2.8% in 2015. Its CAGR between 1990 and 2015, although 0.6 percentage point lower than the previous year, was even significant at 3.7%.

Different trends can be said on energy consumption by region (Figure 2.14). The change in final energy consumption in 2015 against 2014 was again driven by developing economies. Contributing factor to the increase in APEC TFEC was the faster energy consumption growth in South-East Asia at 2.4% over the 2014 levels, owing to its fast growing economy. More than 35% of the energy consumption in APEC in 2015 was attributed to China, hence the economy had a significant influence in APEC TFEC trends. As has been in previous years, energy consumption in

the industry sector (55% of APEC TFEC) was largest in China in 2015. Due to its sheer size, its industry sector's declining energy consumption sector (-2.9%) brought the downtrend in APEC TFEC in 2015. This could be partly attributed to the government's policy to move towards consumer and service oriented economy.

Figure 2.15 • Total final energy consumption in APEC by region by sector, 2015



Source: APEC data

As it turned-out, China's structural change brought the economy's consumption levels in the buildings sector to surge by 6.4% to reach 420 Mtoe in 2015. Oceania likewise contributed a 3.2% increase in the buildings energy consumption which offset the decrease in the US (-3.8%) and other Americas (-1.0%) in 2015. The combined consumption levels of buildings sector in the United States and China in 2015 continued to make up more than 60% of the total APEC buildings consumption in 2015.

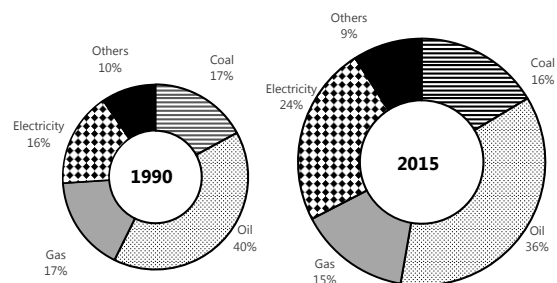
Rapidly increasing income per capita and urbanisation in APEC, especially in developing economies, contributed to the growth of its transport demand. Positive increases were posted in most regions in APEC, top three of which were China (5.5%), other north-east Asia (3.9%) and South-East Asia (3.5%). Together, the combined energy consumption in the transport sectors of these three regions reached 419 Mtoe in 2015, more than 30% of APEC

transport consumption. The US (45% share in 2015), the major consumer in APEC transport sector, also posted a positive growth (1.9%) bringing the robust demand growth in the transport sector.

Final energy consumption by energy source

Oil continued to dominate the final energy consumption in APEC in 2015. It accounted for 36% of the TFEC in 2015 followed by electricity with 24% share and coal with 16% (Figure 2.15).

Figure 2.16 • Total final energy consumption by energy source, 1990 and 2015



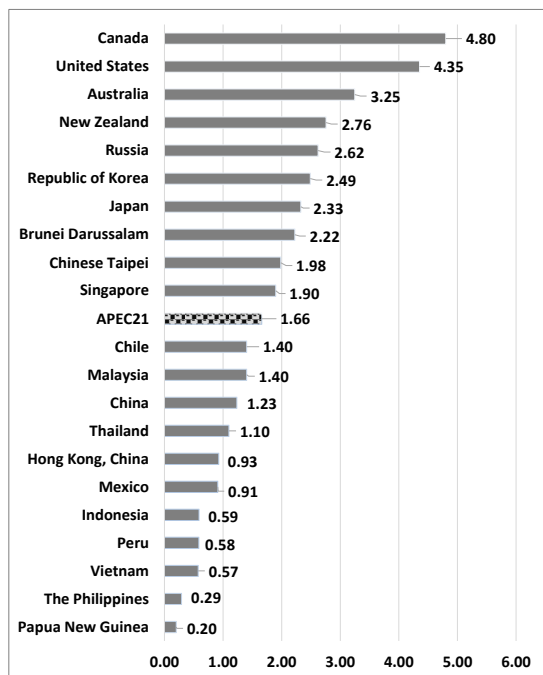
Source: APEC data

Oil also posted a positive growth at 3% over 2014 to reach 1 719 Mtoe in 2015 and electricity grew by 1%, Coal continued its dip since 2013 and posted a 4% decrease in 2015. Gas and other fuels (renewables), which showed positive increases in the previous year posted declines of 2.8% and 1.7%, respectively in 2015. These decreases mainly contributed to the sluggish growth in APEC TFEC in 2015.

Final energy consumption per capita

The region's diverse grouping of economies includes some of the world's most energy-intensive (Brunei Darussalam, Canada and the United States) and also the least energy-intensive (Papua New Guinea, Peru and the Philippines).

Figure 2.17 • Energy consumption per capita, 2015



Sources: APEC data (FEC) and World Bank (Population)

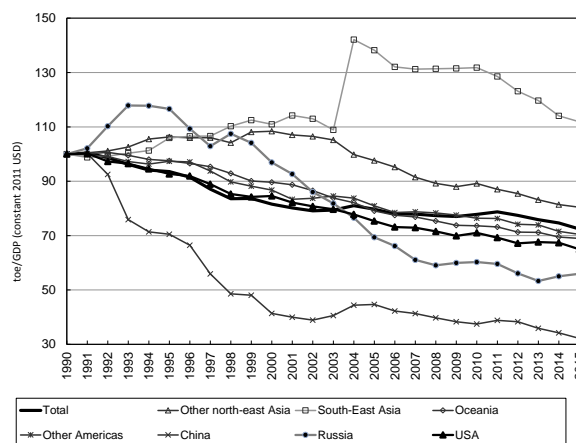
Final energy per capita in APEC in 2015 was almost unchanged since 2014, on average, energy per capita remained at 1.7 tonnes of oil equivalent (toe). The top three economies in terms of final energy per capita still comprised of Canada (4.8 toe), the US (4.4 toe) and Australia (3.3 toe) (Figure 2.16). Despite significant influence in demand trends in APEC, China and South-East Asia’s energy per capita remained well below the APEC average. Final energy demand per capita in 2015 of both regions was 1.2 toe on average. Seven economies have final energy per capita below one toe in 2015 which ranged from 0.9 toe to 0.2 toe.

Final energy intensity

Final energy intensity [*Total final energy supply/GDP* (2011 USD PPP)] in APEC continued to show improvement for the last two decades. Between the period 1990 to 2015, energy intensity was estimated to reduce by 27.6% or 1.3% on average. In 2015, final

energy intensity reached 110.9 toe/million USD (2011 PPP) in 2015 representing a 3.0% improvement from the 2014 final energy intensity level of 114 toe/million USD (2011 PPP) (Figure 2.17). China posted the biggest reduction with 6.0% then the US (-3.6%) and South-East Asia (-1.9%).

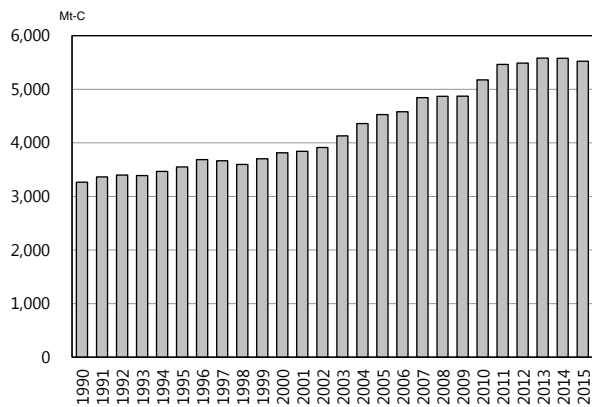
Figure 2.18 • Final energy intensity by region, 1990-2015



Sources: APEC data (FEC) and World Bank (GDP)

CO₂ emissions

The data for CO₂ emissions in 2015 were collected from five member economies, namely: Canada; Hong Kong, China; Japan; Chinese Taipei and Thailand. The CA calculated the CO₂ emissions of 16 other member economies using the 2015 energy balance tables. From the submitted and calculated data, CO₂ emissions from fuel combustion in APEC was 5 522 Mt-C in 2015. This represented a slight decrease of 1% from 5 578 Mt-C in 2014. The compounded annual growth rate from 1990 to 2015, however, was 2.1%.

Figure 2.19 • CO₂ Emission in the APEC region, 1990-2015


Source: APEC data

Energy Balance Table

This section presents the 2015 aggregate energy balance table of APEC. Note that the export/import

row does not show the volume of trade between the APEC region and the rest of the world.

Some of the salient points shown in the table are as follows:

57.0% of coal was used for power generation.

The category "Other" consisted mainly of waste and commercial renewable energy, such resources being used to generate electricity and directly consumed in the industrial sector and the residential/commercial sector.

Heat accounted for 4.2% of final energy consumption.

Oil and petroleum products accounted for 36.4% of final energy consumption, followed (in order) by electricity (23.6%), coal (16.4%), and gas (14.6%).

Table 2.1 • APERC Energy Balance Table (Mtoe), 2015

	1 Coal	2 Coal products	3 Crude Oil, NGL and condensate	4 Petroleum products	5 Gas	6 Hydro	7 Nuclear	8 Geothermal, solar, etc	9 Others	10 Electricity	11 Heat	12 Total
1 Indigenous production	3 137		1 847		1 714	191	395	88	333			7 704
2 Import	415	10	1 317	521	373				4	11		2 651
3 Export	- 636	- 10	- 595	- 579	- 385				- 3	- 10		-2 219
4 International marine bunkers				- 107								- 108
5 International aviation bunkers				- 82								- 82
6 Stock change	- 19	- 1	- 17	- 6	- 18				- 1			- 62
7 Total primary energy supply	2 897	- 1	2 552	- 254	1 684	191	395	88	332	1		7 884
8 Main activity producer	-1 447	- 9	- 5	- 46	- 611	- 187	- 395	- 78	- 54	1 203	122	-1 507
9 Autoproducer	- 203	- 42	- 1	- 32	- 114	- 4		- 6	- 33	117	114	- 203
10 Gas processing	- 8				- 4							- 12
11 Petroleum refineries			-2 447	2 390								- 57
12 Coal transformation	- 523	246		- 1								- 278
13 Other transformation			39	- 12	- 10				- 23			- 6
14 Losses & own-use	- 45	- 18	- 15	- 106	- 178				- 1	- 204	- 38	- 605
15 Discrepancy	15	3	1	26	- 6				5	- 2		21
16 Total final consumption	664	179	14	2 090	761			4	226	1 115	198	5 251
17 Total final energy consumption	616	158	2	1 717	692			4	226	1 115	198	4 728
18 Industry sector	506	153	2	213	287				76	513	100	1 849
19 Transport sector	2			1 251	73				36	21		1 383
20 Other sector	108	5		253	333			4	114	581	98	1 496
20.1 Residential & commercial	72	5		151	325			4	108	510	92	1 268
20.2 Agriculture	14			55	4				5	18	2	98
20.3 Other	22			46	4				1	54	4	131
21 Non-energy	47	21	12	373	69							522

Source: APEC data

3 Energy balance and other tables by member economy

Australia

Energy Balance Table of Australia

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	298 581		18 090						
Import	83	84	19 845	23 177	4 310		3 619		12 742
Export	-253 391	- 609	-12 725	-1 880	- 100		- 16		- 46
International Marine Bunkers				- 757					- 80
International Aviation Bunkers				-3 890			-3 890		
Stock Changes	-1 840		263	- 235	- 127	19	- 77	1	- 228
Total Primary Energy Supply	43 434	- 525	25 473	16 415	4 084	19	- 364	1	12 388
Transfers			430	4 066					
Total Transformation Sector	-41 483	1 806	-25 430	24 195	10 080	27	3 598	7	8 578
Main Activity Producer	-38 742	- 16		- 308					- 224
Autoproducers				-1 056					- 878
Gas Processing									
Petroleum Refineries			-25 511	25 559	10 080	27	3 598	7	9 680
Coal Transformation	-2 741	1 822							
Other Transformation			81						
Loss & Own Use		- 849	- 55	-3 337				- 12	- 2 344
Discrepancy	- 54	1	- 403	1 215	241	8	- 260	34	20
Total Final Consumption	1 897	433	15	42 554	14 405	54	2 974	30	18 642
Total Final Energy Consumption	1 897	433	15	39 293	14 405		2 974	25	18 642
Industry Sector	1 891	432	15	4 473	8			8	2 996
Iron and Steel	32	281		20					11
Chemical & Petrochemical	152	14		149				1	132
Non-metallic Minerals	397	3		199					21
Other Industries	1 310	134	15	4 105	8			7	2 832
Transport Sector	1			31 531	14 247		2 974	8	13 039
Domestic Air Transport				3 025	51		2 974		
Road				26 690	13 909				11 603
Rail	1			1 051					1 050
Inland Waterways				563	281				230
Other transport				202	6			8	156
Other Sector	5	1		3 289	150			9	2 607
Residential		1		369					26
Commerce and Public Services	5			790				8	648
Agriculture				2 130	150			1	1 933
Non-specified Others									
Non-energy				3 261		54		5	
2014									
Indigenous Production	285 440		19 081						
Import	74	52	22 611	20 793	2 802		2 930		11 457
Export	-242 283	- 549	-12 448	-2 082	- 118		- 1		- 55
International Marine Bunkers				- 721					- 35
International Aviation Bunkers				-3 915			-3 915		
Stock Changes	-1 201	- 22	80	350	108	3	- 5	- 1	364
Total Primary Energy Supply	42 030	- 518	29 324	14 425	2 791	3	- 991	- 1	11 732
Transfers			655	4 790					
Total Transformation Sector	-40 152	1 861	-29 425	27 526	10 496	128	4 231	5	9 723
Main Activity Producer	-37 265	- 21		- 187					- 132
Autoproducers				- 918					- 748
Gas Processing									
Petroleum Refineries			-29 519	28 631	10 496	128	4 231	5	10 603
Coal Transformation	-2 887	1 882							
Other Transformation			94						
Loss & Own Use		- 876	- 56	-4 299	- 5			- 7	- 2 507
Discrepancy	86	- 2	- 483	142	1 105	- 3	- 269	20	- 984
Total Final Consumption	1 964	465	15	42 584	14 387	128	2 971	17	17 964
Total Final Energy Consumption	1 964	465	15	38 400	14 387		2 971	12	17 964
Industry Sector	1 959	465	15	4 464	13			3	3 185
Iron and Steel	50	292		19					11
Chemical & Petrochemical	142	14		203				2	170
Non-metallic Minerals	416	12		152					21
Other Industries	1 351	147	15	4 090	13			1	2 983
Transport Sector				30 805	14 229		2 971		12 340
Domestic Air Transport				3 025	54		2 971		
Road				26 158	13 893				11 062
Rail				972					972
Inland Waterways				516	276				192
Other transport				134	6				114
Other Sector	5			3 131	145			9	2 439
Residential				379					24
Commerce and Public Services	5			722				8	574
Agriculture				2 030	145			1	1 841
Non-specified Others									
Non-energy				4 184		128		5	

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					56 363	1 149		1 856	5 288			381 327
249	559			1 698	5 136							48 325
- 104	- 1 311			- 303	- 29 282							- 297 887
- 677												- 757
												- 3 890
30	56			91								- 1 812
- 502	- 696			1 485	32 217	1 149		1 856	5 288			125 307
	2 027		500	1 539								4 496
430	580	283		612	- 11 957	- 1 149		- 1 501	- 895	21 697		- 34 717
- 26				- 58	- 9 143	- 1 149		- 995	- 356	19 504		- 31 205
- 152				- 26	- 2 741			- 506	- 539	2 193		- 2 649
608	580	283		696								48
												- 919
												8
- 50	- 9	- 283	- 47	- 592	- 7 197					- 3 523		- 14 961
426	204			542	450				- 40	- 2		1 167
304	2 106		453	3 586	13 513			355	4 353	18 172		81 292
304	1 893			1 050	12 705			355	4 353	18 172		77 223
245	238			978	7 708				2 870	6 612		24 001
5	1			3	301					292		926
16					1 617				103	366		2 401
7	137			34	1 169				46	389		2 203
217	100			941	4 621				2 721	5 565		18 471
52	1 182			29	267				246	470		32 515
												3 025
	1 178				86				246			27 022
	1									236		1 288
52												563
	3			29	181					234		617
7	473			43	4 730			355	1 237	11 090		20 707
	343				3 487			345	1 190	5 097		10 489
7	84			43	1 214			10	47	5 773		7 839
	46				29					220		2 379
	213		453	2 536	808							4 069
					52 905	1 581		1 616	5 104			365 727
1 286	424			1 894	5 964							49 494
- 44	- 1 524			- 340	- 27 176							- 284 538
- 686												- 721
												- 3 915
- 11	- 48			- 60								- 793
545	- 1 148			1 494	31 693	1 581		1 616	5 104			125 255
	2 264		514	2 012								5 445
499	645	1 048		751	- 11 492	- 1 581		- 1 300	- 733	21 350		- 33 946
- 23				- 32	- 8 665	- 1 581		- 883	- 246	19 256		- 29 592
- 134				- 36	- 2 742			- 417	- 487	2 094		- 2 470
656	645	1 048		819								- 888
												- 1 005
												9
- 67	- 13	- 1 048	- 45	- 607	- 7 237					- 3 458		- 15 926
- 328	371	14	1	215	526				- 209	2		62
649	2 119	14	470	3 865	13 490			316	4 162	17 894		80 890
649	1 890	14		513	12 690			316	4 162	17 894		75 906
583	206	14		460	7 829				2 624	6 835		24 191
4	1			3	288					282		931
17		14			1 599				110	353		2 421
6	91			34	1 152				44	377		2 153
556	114			423	4 790				2 470	5 823		18 686
48	1 206			11	287				252	411		31 755
												3 025
	1 203				67				252			26 477
										218		1 190
48												516
	3			11	220					193		547
18	478			42	4 574			316	1 286	10 648		19 960
					3 415			307	1 236	4 991		10 328
18	80			42	1 129			9	50	5 445		7 360
	43				30					212		2 272
	229		470	3 352	800							4 984

Major Energy Indicators of Australia

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	86 373	113 479	127 631	128 348	126 765	126 487	125 255	125 307
Indigenous Production	157 522	265 163	323 681	312 834	320 987	344 577	365 727	381 327
Import	14 397	31 107	42 931	46 643	47 432	49 903	49 494	48 325
Export	-78 917	-179 855	-228 865	-226 389	-234 168	-260 371	-284 538	-297 887
Final Energy Consumption	52 698	67 238	72 111	73 739	74 354	76 226	75 906	77 223
Industry	19 315	22 262	22 693	23 080	23 438	24 600	24 191	24 001
Transport	21 112	27 143	29 990	30 932	31 153	31 714	31 755	32 515
Residential	7 490	9 286	10 252	10 477	10 454	10 485	10 328	10 489
Commerce & Public Services	3 480	6 237	6 973	7 000	6 979	7 165	7 360	7 839
Others	1 301	2 310	2 203	2 250	2 330	2 262	2 272	2 379
Coal, Coal Products								
Primary Energy Supply	35 128	51 036	50 469	48 100	47 026	43 722	41 512	42 909
Indigenous Production	106 102	201 579	246 564	233 640	245 352	264 516	285 440	298 581
Import		14	42	162	87	61	126	167
Export	-67 267	-150 990	-190 390	-184 399	-195 162	-217 374	-242 832	-254 000
Transformation Sector	-30 334	-46 695	-46 881	-44 674	-43 662	-40 576	-38 291	-39 677
Power Generation	-28 924	-45 461	-44 832	-42 734	-42 275	-39 420	-37 286	-38 758
Final Energy Consumption	4 381	3 763	2 530	2 483	2 420	2 337	2 429	2 330
Industry	4 170	3 510	2 423	2 406	2 357	2 335	2 424	2 323
Transport	73	181	94	67	57			1
Residential	12	3						1
Commerce & Public Services	126	69	13	10	6	2	5	5
Others								
Crude Oil								
Primary Energy Supply	33 074	33 972	31 910	34 305	32 602	31 008	29 324	25 473
Indigenous Production	29 026	25 673	25 537	24 403	22 869	19 958	19 081	18 090
Import	10 210	21 376	22 095	25 962	24 093	24 109	22 611	19 845
Export	-5 855	-13 190	-15 150	-16 468	-14 621	-13 230	-12 448	-12 725
Transformation Sector	-30 676	-34 076	-32 017	-33 744	-32 880	-31 325	-29 425	-25 430
Petroleum Refineries	-30 676	-34 076	-32 017	-33 748	-32 895	-31 418	-29 519	-25 511
Petroleum Products								
Primary Energy Supply	-1 874	2 939	9 707	8 873	11 431	13 529	14 425	16 415
Import	4 187	9 717	15 943	14 909	18 257	20 131	20 793	23 177
Export	-3 446	-3 296	-2 439	-2 191	-2 330	-2 291	-2 082	-1 880
Transformation Sector	31 064	33 524	30 770	32 055	30 840	29 862	27 526	24 195
Power Generation	- 946	- 825	-1 393	-1 331	- 854	-1 494	-1 105	-1 364
Petroleum Refineries	32 061	34 380	32 172	33 393	31 700	31 356	28 631	25 559
Final Energy Consumption	25 488	32 242	35 255	36 748	37 534	38 722	38 400	39 293
Industry	2 884	3 071	3 155	3 701	4 239	4 869	4 464	4 473
Transport	20 874	26 282	29 123	30 040	30 253	30 774	30 805	31 531
Residential	378	294	366	385	377	385	379	369
Commerce & Public Services	256	493	624	625	639	642	722	790
Others	1 096	2 102	1 987	1 997	2 026	2 052	2 030	2 130
Natural Gas								
Primary Energy Supply	14 786	18 967	28 432	29 910	28 560	30 255	31 693	32 217
Indigenous Production	17 135	31 346	44 467	47 631	45 620	52 130	52 905	56 363
Import			4 851	5 610	4 995	5 602	5 964	5 136
Export	-2 349	-12 379	-20 886	-23 331	-22 055	-27 476	-27 176	-29 282
Transformation Sector	-3 886	-5 680	-9 759	-10 082	-11 072	-11 206	-11 492	-11 957
Power Generation	-3 470	-5 404	-9 759	-10 077	-11 058	-11 121	-11 407	-11 884
Final Energy Consumption	8 379	11 760	11 861	11 956	12 016	12 452	12 690	12 705
Industry	5 684	7 652	7 419	7 441	7 446	7 770	7 829	7 708
Transport	10	364	289	270	263	287	287	267
Residential	1 934	2 776	3 101	3 184	3 243	3 328	3 415	3 487
Commerce & Public Services	750	966	1 049	1 058	1 052	1 048	1 129	1 214
Others	1	2	3	3	12	19	30	29
Electricity								
Power Generation	13 270	19 638	21 728	21 836	21 596	21 467	21 350	21 697
Thermal	11 344	16 257	19 362	19 143	18 952	18 337	17 737	18 493
Hydro	1 217	1 317	1 161	1 441	1 206	1 563	1 581	808
Nuclear								
Others	709	2 064	1 205	1 252	1 438	1 567	2 032	2 396
Final Energy Consumption	11 112	16 274	18 060	18 253	18 054	18 074	17 894	18 172
Industry	5 090	6 369	7 060	7 010	6 881	6 849	6 835	6 612
Transport	155	297	316	330	350	410	411	470
Residential	3 315	4 717	5 216	5 378	5 287	5 206	4 991	5 097
Commerce & Public Services	2 348	4 685	5 255	5 285	5 244	5 418	5 445	5 773
Others	204	206	213	250	292	191	212	220

Major Economic Indicators of Australia

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	17.07	20.39	22.03	22.34	22.73	23.12	23.46	23.79
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	637	1 034	1 190	1 218	1 263	1 295	1 329	1 361
Real Term (Billions of 2010 Price and 2010 PPP)	488	792	912	933	967	992	1 018	1 043
Nominal (Billions of Current USD)	316	705	1 190	1 455	1 545	1 475	1 433	1 215
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	37 311	50 719	54 022	54 541	55 557	56 026	56 647	57 217
Real Term (2010 Price and 2010 PPP)	28 583	38 855	41 385	41 782	42 561	42 920	43 396	43 832
Nominal (Current USD)	18 512	34 555	54 022	65 124	67 958	63 791	61 089	51 065
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	405	923	1 298	1 410	1 492	1 528	1 590	1 617
Household Final Consumption Expenditure	223	533	719	762	801	836	878	915
General Government Final Consumption Expenditure	70	161	234	252	270	275	283	293
Gross Fixed Capital Formation	112	249	360	376	417	432	434	431
Stock Change	5	4	- 2	6	5	2	- 2	1
Exports of Goods and Services	61	167	252	298	317	302	331	318
Imports of Goods and Services	69	192	265	283	319	319	335	342
Real GDP & its Components (Billions of 2013 AUD) *1								
Gross Domestic Product	756	1 229	1 414	1 447	1 500	1 539	1 579	1 617
Household Final Consumption Expenditure	409	691	803	834	855	868	891	915
General Government Final Consumption Expenditure	144	225	262	271	281	283	287	293
Gross Fixed Capital Formation	150	290	380	395	438	450	444	431
Stock Change	7	8	- 2	5	4	1	- 3	1
Exports of Goods and Services	89	214	252	254	267	282	298	318
Imports of Goods and Services	72	201	281	310	345	345	338	342
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.4
Industry	26.7	23.6	23.6	23.5	23.9	23.8	24.0	23.7
Services, etc.	63.4	66.5	67.2	67.3	67.0	67.1	66.9	67.2
Industrial Production Index (2010=100) *2	72.2	94.4	100.0	101.1	104.6	106.9	111.8	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	39.75	106.10	212.63	271.73	256.68	252.98	241.24	187.71
Imports, c.i.f.	41.99	125.28	201.64	243.70	260.94	242.14	236.93	208.68
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.50	-14.27	11.34	22.74	-8.28	7.31	2.22	-18.86
Current Account	-15.53	-43.34	-44.71	-44.43	-64.48	-47.87	-42.32	-58.06
Overall Balance	1.26	5.97	-0.47	2.31	10.95	11.81	2.29	-5.93
Foreign Exchange Rate (AUD/USD) *1	1.28	1.31	1.09	0.97	0.97	1.04	1.11	1.33
PPP conversion factor, GDP (AUD/International Dollar) *1	1.36	1.39	1.50	1.51	1.54	1.45	1.46	1.46
Price Indices								
GDP Deflator (2013=100) *3	53.5	75.1	91.8	97.4	99.4	99.3	100.7	100.0
Manufacturing Output (2010=100) *2	66.4	86.7	100.0	103.4	102.9	104.0	107.2	107.5
Consumer Price Index (2010=100) *2	59.8	86.4	100.0	103.3	105.1	107.7	110.4	112.2
Growth Rate (%) *3								
Real GDP	3.53	3.20	2.01	2.37	3.63	2.57	2.61	2.42
Population	1.49	1.33	1.57	1.40	1.74	1.71	1.49	1.40
Price								
Manufacturing Output	5.97	5.96	1.92	3.39	-0.47	1.08	3.11	0.27
Consumer Price Index	7.27	2.67	2.85	3.30	1.76	2.45	2.49	1.63

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: AUD means Australian Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Brunei Darussalam

Energy Balance Table of Brunei Darussalam

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production			6 714	18					
Import			9	326	127		13		174
Export			-6 366	- 86			- 5		- 4
International Marine Bunkers									
International Aviation Bunkers				- 77			- 77		
Stock Changes			95	3	2			- 1	1
Total Primary Energy Supply			452	184	129		- 69	- 1	171
Transfers									
Total Transformation Sector			- 434	464	166		70		132
Main Activity Producer				- 11					- 11
Autoproducers									
Gas Processing				18					
Petroleum Refineries			- 434	457	166		70		143
Coal Transformation									
Other Transformation									
Loss & Own Use									
Discrepancy			- 18	- 30	4		- 1	7	- 22
Total Final Consumption				618	300			6	281
Total Final Energy Consumption				617	300			6	281
Industry Sector									
Iron and Steel				136					124
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries				136					124
Transport Sector									
Domestic Air Transport				456	300				157
Road				456	300				157
Rail									
Inland Waterways									
Other transport									
Other Sector									
Residential				24				6	
Commerce and Public Services				18					
Agriculture									
Non-specified Others				6				6	
Non-energy				1					
2014									
Indigenous Production			6 691	18					
Import			7	392	174		19		186
Export			-6 209	- 85			- 7		- 9
International Marine Bunkers									
International Aviation Bunkers				- 76			- 76		
Stock Changes			- 89	- 20	- 10			- 3	- 7
Total Primary Energy Supply			400	229	164		- 63	- 3	170
Transfers									
Total Transformation Sector			- 382	402	126		68		106
Main Activity Producer				- 11					- 11
Autoproducers									
Gas Processing				17					
Petroleum Refineries			- 382	397	126		68		117
Coal Transformation									
Other Transformation									
Loss & Own Use				- 16					
Discrepancy			- 18	5	5		- 4	9	13
Total Final Consumption				621	295			6	289
Total Final Energy Consumption				621	295			6	289
Industry Sector									
Iron and Steel				119				6	101
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries				119				6	101
Transport Sector									
Domestic Air Transport				456	295				160
Road				456	295				160
Rail									
Inland Waterways									
Other transport									
Other Sector									
Residential				45					28
Commerce and Public Services				17					
Agriculture									
Non-specified Others				28					28
Non-energy									

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
	18				11 461							18 194
				12								335
- 77					- 7 959							-14 411
				1	- 104							- 77
- 77	18			13	3 398							- 6
												4 034
77	18				-1 350					401		- 919
					-1 184					361		- 834
					- 166					40		- 126
77	18											18
												22
					-1 659					- 69		-1 728
- 19				1	62					- 40		- 26
18				14	450					292		1 360
18				13	19					292		928
				13						17		153
										2		2
				13						15		151
												456
												456
18					19					275		319
18					19					118		155
										158		158
												6
				1	431							432
18					10 910							17 619
				13								399
- 70					- 7 421							-13 715
					35							- 76
- 70	18			13	3 524							- 74
												4 154
70	17	16			-1 560					388		-1 152
					-1 138					345		- 804
					- 174					43		- 131
70	17	16			- 248							- 231
												15
		- 16			-1 365					- 99		-1 479
- 17					- 20							- 33
17				13	580					289		1 489
17				13	19					289		929
				13						17		137
										3		3
				13						15		134
				1								456
				1								456
17					19					271		336
17					19					115		152
										156		156
												28
					560							560

Major Energy Indicators of Brunei Darussalam

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	1 635	3 207	4 239	4 058	4 110	3 573	4 154	4 034
Indigenous Production	16 265	22 830	20 195	20 334	20 033	18 384	17 619	18 194
Import	11	53	156	276	384	309	399	335
Export	-14 576	-19 522	-16 161	-16 376	-16 187	-15 037	-13 715	-14 411
Final Energy Consumption	390	676	821	887	923	906	929	928
Industry	71	81	146	169	187	156	137	153
Transport	194	344	396	432	452	447	456	456
Residential	102	139	157	163	158	155	152	155
Commerce & Public Services	23	111	122	124	126	129	156	158
Others						18	28	6
Coal, Coal Products								
Primary Energy Supply								
Indigenous Production								
Import								
Export								
Transformation Sector								
Power Generation								
Final Energy Consumption								
Industry								
Transport								
Residential								
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	121	572	651	690	530	497	400	452
Indigenous Production	8 119	11 671	8 768	8 426	8 448	7 150	6 691	6 714
Import		10	14	11	8	10	7	9
Export	-7 971	-11 036	-8 289	-7 682	-7 896	-6 707	-6 209	-6 366
Transformation Sector	- 379	- 718	- 699	- 675	- 513	- 479	- 382	- 434
Petroleum Refineries	- 379	- 718	- 699	- 675	- 513	- 479	- 382	- 434
Petroleum Products								
Primary Energy Supply	- 60	- 109	- 39	49	237	132	229	184
Import	11	43	142	265	377	299	392	326
Export	- 41	- 87	- 88	- 121	- 77	- 87	- 85	- 86
Transformation Sector	342	629	653	606	444	513	402	464
Power Generation	- 3	- 8	- 10	- 10	- 11	- 11	- 11	- 11
Petroleum Refineries	336	621	646	599	438	507	397	457
Final Energy Consumption	257	423	536	598	635	619	621	617
Industry	50	62	125	150	166	137	119	136
Transport	194	344	396	432	452	447	456	456
Residential	12	17	16	17	17	17	17	18
Commerce & Public Services								
Others						18	28	6
Natural Gas								
Primary Energy Supply	1 573	2 745	3 627	3 318	3 343	2 943	3 524	3 398
Indigenous Production	8 138	11 143	11 410	11 890	11 568	11 216	10 910	11 461
Import								
Export	-6 564	-8 398	-7 783	-8 573	-8 214	-8 243	-7 421	-7 959
Transformation Sector	- 966	-1 451	-2 416	-1 052	-1 244	-1 505	-1 560	-1 350
Power Generation	- 516	-1 209	-1 303	-1 255	-1 323	-1 262	-1 312	-1 350
Final Energy Consumption	32	25	27	27	26	23	19	19
Industry								
Transport								
Residential	32	25	27	27	26	23	19	19
Commerce & Public Services								
Others								
Electricity								
Power Generation	112	312	362	356	375	379	388	401
Thermal	112	312	362	356	375	379	387	401
Hydro								
Nuclear								
Others								
Final Energy Consumption	101	227	257	262	262	264	289	292
Industry	20	19	21	19	21	20	17	17
Transport								
Residential	57	97	115	119	115	115	115	118
Commerce & Public Services	23	111	122	124	126	129	156	158
Others								

Major Economic Indicators of Brunei Darussalam

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	0.26	0.36	0.39	0.40	0.41	0.41	0.41	0.42
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	8.66	11.97	12.37	12.79	12.92	12.69	13.72	13.64
Real Term (Billions of 2010 Price and 2010 PPP)	19.40	26.83	27.72	28.67	28.95	28.44	31.33	31.15
Nominal (Billions of Current USD)	3.52	9.53	12.37	16.69	16.95	16.11	17.12	12.93
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	33 697	33 079	31 453	32 032	31 851	30 838	33 314	32 662
Real Term (2010 Price and 2010 PPP)	75 514	74 129	70 486	71 783	71 379	69 108	76 089	74 600
Nominal (Current USD)	13 702	26 338	31 453	41 787	41 809	39 152	41 590	30 968
Nominal GDP & its Components (Billions of Current BND) *1								
Gross Domestic Product	6.4	15.9	16.9	21.0	21.2	20.2	21.7	17.8
Household Final Consumption Expenditure	1.7	3.6	3.9	4.1	4.3	4.5	3.4	3.5
General Government Final Consumption Expenditure	1.4	2.9	3.8	3.6	3.7	3.7	4.6	4.5
Gross Fixed Capital Formation	1.2	1.8	2.7	2.7	2.9	3.1	5.9	6.2
Stock Change								
Exports of Goods and Services	3.9	11.1	13.7	16.7	17.2	15.4	14.9	9.3
Imports of Goods and Services	2.4	4.3	5.5	6.0	6.6	6.5	6.6	5.8
Real GDP & its Components (Billions of 2000 BND) *1								
Gross Domestic Product	8.3	11.5	11.8	12.3	12.4	12.2	18.7	18.6
Household Final Consumption Expenditure	2.0	3.5	4.0	4.2	4.4	4.5	3.2	3.4
General Government Final Consumption Expenditure	2.1	2.9	4.1	3.9	4.0	4.0	4.6	4.5
Gross Fixed Capital Formation	1.5	1.7	2.4	2.4	2.5	2.7	6.0	6.4
Stock Change								
Exports of Goods and Services	4.9	7.5	5.7	6.7	6.5	5.9	11.8	10.5
Imports of Goods and Services	3.0	4.3	5.5	6.1	6.9	6.8	6.7	5.9
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.8	1.3	1.1	1.1	1.3	1.2	0.8	0.9
Industry	63.3	61.2	52.5	52.4	51.0	48.9	63.0	63.4
Services, etc.	35.9	37.5	46.3	46.4	47.8	49.9	36.2	35.8
Industrial Production Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	2.21	6.25	8.91	12.46	13.00	11.45	10.51	6.35
Imports, c.i.f.	1.00	1.49	2.54	3.63	3.57	3.61	3.60	3.23
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	4.83	N.A.	N.A.	8.77	N.A.	7.44	2.91
Current Account	N.A.	4.03	N.A.	N.A.	5.68	N.A.	5.25	2.16
Overall Balance	N.A.	3.94	N.A.	N.A.	2.77	N.A.	1.19	-2.39
Foreign Exchange Rate (BND/USD) *1	1.81	1.66	1.36	1.26	1.25	1.25	1.27	1.37
PPP conversion factor, GDP (BND/International Dollar) *1	0.50	0.65	0.61	0.72	0.70	0.67	0.66	0.54
Price Indices								
GDP Deflator (2000=100) *3	77.0	138.4	142.4	171.4	171.3	165.9	116.0	95.6
Producer Price Index (2010=100) *2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2010=100) *2	78.0	95.5	100.0	102.0	102.5	102.9	102.7	102.2
Growth Rate (%) *3								
Real GDP	1.09	0.39	2.60	3.43	0.95	-1.75	-2.35	-0.57
Population	2.88	1.74	1.61	1.56	1.52	1.48	1.48	1.42
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	2.14	1.24	0.36	2.02	0.46	0.38	-0.19	-0.42

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Estimation from *1, and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: BND means Brunei Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Brunei Darussalam in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	1.41
Local Currency Unit		BND

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal			Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil			Crude Oil			Crude Oil	USD/barrel	53.88
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG			LPG Cylinder 12 kg	BND/cylinder	10.00
						Cylinder 44 kg	BND/cylinder	34.56
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline			Motor Gasoline RON97	BND/L	0.53
Aviation Gasoline			Aviation Gasoline			RON92	BND/L	0.52
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			RON85	BND/L	0.36
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel					
Other Kerosene			Other Kerosene			Aviation Gasoline		
Gas/Diesel Oil			Gas/Diesel Oil			Gasoline Type Jet Fuel		
Fuel Oil			Fuel Oil			Kerosene Type Jet Fuel		
White Spirit SBP			White Spirit SBP			Other Kerosene		
Lubricants			Lubricants			Gas/Diesel Oil	BND/L	0.31
Bitumen			Bitumen			Fuel Oil		
Paraffin Waxes			Paraffin Waxes			White Spirit SBP		
Petroleum Coke			Petroleum Coke			Lubricants		
						Bitumen		
						Paraffin Waxes		
						Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas (export)	USD/MMBtu	9.63
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial		
						Commercial - The first 10 units	BND/kVA	0.20
						Next 100 units	BND/kVA	0.07
						Next 100 units	BND/kVA	0.06
						Remaining units	BND/kVA	0.05
						Minimum charge	BND	2.00
						Residential - 1-600 kWh	BND/kWh	0.01
						601-2000 kWh	BND/kWh	0.08
						2001-4000 kWh	BND/kWh	0.10
						4001 kWh above	BND/kWh	0.12
						Others (Government)	BND/kWh	0.10
Other Energy Products			Other Energy Products			Other Energy Products		

Canada

Energy Balance Table of Canada

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	30 609		226 233						
Import	4 688	417	50 448	11 675	3 089	9	3 031	187	1 655
Export	-18 156	- 50	-170 858	-22 686	-7 666	- 657	- 452		-6 843
International Marine Bunkers				- 175					- 39
International Aviation Bunkers				- 864			- 864		
Stock Changes	1 026	- 115	- 252	810	284	- 29	- 12	- 15	330
Total Primary Energy Supply	18 166	252	105 572	-11 240	-4 292	- 677	1 703	173	-4 896
Transfers			-10 366	14 791	6 016	- 197	- 92	- 401	1 746
Total Transformation Sector	-17 301	1 155	-90 976	88 726	32 307	3 828	4 518	870	30 356
Main Activity Producer	-15 307			-1 503	- 30				- 193
Autoproducers		- 7		- 413					- 114
Gas Processing									
Petroleum Refineries			-93 408	90 642	32 337	3 828	4 518	870	30 663
Coal Transformation	-1 994	1 162							
Other Transformation			2 432						
Loss & Own Use	- 1			-15 763	- 5	- 21		- 14	-1 674
Discrepancy	241	- 1	-4 230	12 527	607	1 329	- 826	- 186	1 072
Total Final Consumption	1 105	1 406		89 041	34 633	4 262	5 303	442	26 604
Total Final Energy Consumption	1 074	1 383		70 691	34 633		5 303	442	26 604
Industry Sector	1 068	1 383		4 902	761		36	15	2 860
Iron and Steel	178	1 318							
Chemical & Petrochemical									
Non-metallic Minerals	446	24		346					
Other Industries	444	41		4 556	761		36	15	2 860
Transport Sector				55 586	32 247		4 853		17 640
Domestic Air Transport				4 825	39		4 786		
Road				47 221	32 180				14 803
Rail				2 159					2 159
Inland Waterways				1 265					657
Other transport				116	28		67		21
Other Sector	6			10 203	1 625		414	427	6 104
Residential	6			1 881				50	1 507
Commerce and Public Services				3 622	393		414	376	1 609
Agriculture				4 700	1 232			1	2 988
Non-specified Others									
Non-energy	31	23		18 350		4 262			
2014									
Indigenous Production	35 374		219 948						
Import	4 804	624	43 784	11 014	2 626	5	2 564	101	1 240
Export	-20 563	- 40	-151 541	-22 624	-6 480	- 715	- 420	- 2	-6 486
International Marine Bunkers				- 364					- 31
International Aviation Bunkers				- 821			- 821		
Stock Changes	- 342	81	-1 408	- 784	- 290	18	- 28	9	- 214
Total Primary Energy Supply	19 275	666	110 784	-13 577	-4 144	- 691	1 295	109	-5 490
Transfers			-14 393	19 223	6 022	- 73	- 22	- 214	1 851
Total Transformation Sector	-17 441	1 106	-91 046	86 772	30 329	3 553	4 392	626	30 265
Main Activity Producer	-15 383			-1 472	- 25				- 170
Autoproducers		- 7		- 426					- 94
Gas Processing									
Petroleum Refineries			-93 342	88 670	30 354	3 553	4 392	626	30 529
Coal Transformation	-2 058	1 113							
Other Transformation			2 296						
Loss & Own Use				-16 017	- 2	- 30		- 15	-1 852
Discrepancy	- 729		-5 345	12 349	2 032	1 470	- 361	- 11	2 118
Total Final Consumption	1 105	1 772		88 750	34 237	4 229	5 304	495	26 892
Total Final Energy Consumption	1 074	1 487		70 936	34 237		5 304	495	26 892
Industry Sector	1 062	1 487		5 036	774		32	33	2 848
Iron and Steel	178	1 424		1					
Chemical & Petrochemical				3					3
Non-metallic Minerals	440	22		343					
Other Industries	444	41		4 689	774		32	33	2 845
Transport Sector				55 750	31 724		4 850		18 181
Domestic Air Transport				4 786	30		4 756		
Road				47 217	31 661				15 321
Rail				2 179					2 179
Inland Waterways				1 400					640
Other transport				168	33		94		41
Other Sector	12			10 150	1 739		422	462	5 863
Residential	12			1 952				50	1 577
Commerce and Public Services				3 564	409		422	412	1 461
Agriculture				4 634	1 330				2 825
Non-specified Others									
Non-energy	31	285		17 814		4 229			

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					139 112	32 732	26 431	2 566	13 647			471 330
621	139			2 944	16 297				974	750		85 249
-3 036	-402			-3 630	-65 988				-815	-5 870		-284 423
-136												-175
												-864
-13	137			128	-2 395							-926
-2 565	-127			-559	87 026	32 732	26 431	2 566	13 806	-5 119		270 192
-101	2 897	6 051	5 899	-7 027								4 425
3 854	1 451	3 495		8 047	-17 787	-32 733	-26 431	-2 524	-3 159	57 683	636	-42 711
-654		-129		-497	-8 074	-30 062	-26 431	-2 491	-427	51 569	614	-32 112
-41		-203		-55	-6 508	-2 671		-33	-2 732	6 114	22	-6 228
4 549	1 451	3 827		8 599								-2 766
												-832
												-773
-73	-1 331	-9 544		-3 101	-31 323				-2	-9 974		-57 063
436	-263	-2	29	10 331	9 370	1			-2	675		18 581
1 551	2 627		5 928	7 691	47 286			42	10 643	43 265	636	193 424
1 551	1 705			453	44 374			42	10 643	43 265	636	172 108
590	187			453	14 220				5 851	14 488	605	42 517
					1 644				1	733	1	3 875
					4 454					1 745	279	6 478
1				345	760				138	592		2 306
589	187			108	7 362				5 712	11 418	325	29 858
608	238				3 578				1 776	444		61 384
												4 825
	238				38				1 776	91		49 126
												2 159
608												1 265
					3 540					353		4 009
353	1 280				26 576			42	3 016	28 333	31	68 207
10	314				14 762				3 001	14 535		34 185
64	766				10 977				15	10 158	11	24 783
279	200				837					837		6 374
								42		2 803	20	2 865
	922		5 928	7 238	2 912							21 316
					137 536	32 892	27 958	2 162	13 979			469 849
972	227			3 279	18 002				1 076	1 101		80 405
-3 483	-656			-4 382	-65 349				-857	-5 024		-265 998
-333												-364
												-821
-115	-81			-83	-1 805							-4 258
-2 960	-511			-1 185	88 385	32 892	27 958	2 162	14 196	-3 923		278 818
-113	5 885	6 643	5 759	-6 515								4 830
5 272	1 454	2 707		8 174	-16 899	-32 893	-27 958	-2 121	-3 126	57 450	739	-45 417
-569		-119		-589	-8 425	-30 222	-27 958	-2 110	-427	51 783	717	-33 497
-77		-198		-57	-5 438	-2 671		-11	-2 699	5 667	22	-5 563
5 918	1 454	3 024		8 820								-4 672
												-945
												-740
-196	-1 339	-9 350		-3 233	-31 170				-2	-9 169		-56 358
-199	-2 755		66	9 989	8 567	1			-2	-464	1	14 378
1 804	2 734		5 825	7 230	48 883			41	11 066	43 894	740	196 251
1 804	1 725			479	46 237			41	11 066	43 894	740	175 475
674	196			479	14 705				6 179	14 682	707	43 858
1					1 899				1	776	1	4 280
					4 434					1 654	309	6 400
					729				134	554		2 222
673	196			136	7 643				6 044	11 698	397	30 956
760	235				3 466				1 871	410		61 497
												4 786
	235				37				1 871	91		49 216
												2 179
760												1 400
					3 429					319		3 916
370	1 294				28 066			41	3 016	28 802	33	70 120
9	316				15 737				3 001	15 100		35 802
83	777				11 496				15	10 072	13	25 160
278	201				833					827		6 294
								41		2 803	20	2 864
	1 009		5 825	6 751	2 646							20 776

Major Energy Indicators of Canada

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	211 286	272 396	265 246	270 728	267 819	270 827	278 818	270 192
Indigenous Production	276 437	401 449	401 363	414 635	426 248	445 782	469 849	471 330
Import	46 402	86 853	85 654	93 187	92 118	85 398	80 405	85 249
Export	-105 717	-216 516	-227 126	-238 226	-251 002	-262 901	-265 998	-284 423
Final Energy Consumption	146 767	172 990	165 667	171 720	171 382	174 958	175 475	172 108
Industry	47 236	51 266	42 385	43 965	44 205	44 760	43 858	42 517
Transport	43 120	54 583	58 453	58 815	59 659	61 416	61 497	61 384
Residential	31 439	33 199	33 059	35 138	33 649	34 994	35 802	34 185
Commerce & Public Services	21 725	28 757	26 139	27 585	23 349	23 457	25 160	24 783
Others	3 247	5 185	5 631	6 217	10 520	10 331	9 158	9 239
Coal, Coal Products								
Primary Energy Supply	24 277	28 899	23 206	20 732	19 728	18 240	19 941	18 418
Indigenous Production	37 928	34 554	33 945	33 757	33 610	35 172	35 374	30 609
Import	9 547	12 290	8 014	6 594	6 643	5 574	5 428	5 105
Export	-21 443	-16 563	-19 325	-19 642	-20 811	-23 371	-20 603	-18 206
Transformation Sector	-21 234	-24 344	-20 300	-18 575	-16 998	-16 532	-16 335	-16 146
Power Generation	-19 973	-23 345	-19 099	-17 649	-15 862	-15 626	-15 390	-15 314
Final Energy Consumption	2 887	3 418	3 022	3 235	3 118	2 590	2 561	2 457
Industry	2 835	3 376	2 991	3 217	3 103	2 576	2 549	2 451
Transport								
Residential	47	42	31	18	15	14	12	6
Commerce & Public Services	5							
Others								
Crude Oil								
Primary Energy Supply	82 797	103 078	105 580	104 103	109 170	107 943	110 784	105 572
Indigenous Production	94 146	142 939	167 161	177 686	191 259	204 038	219 948	226 233
Import	27 134	49 368	43 855	43 225	45 377	43 897	43 784	50 448
Export	-37 811	-86 853	-103 906	-117 726	-128 106	-139 703	-151 541	-170 858
Transformation Sector	-85 549	-100 261	-94 784	-89 880	-92 726	-90 579	-91 046	-90 976
Petroleum Refineries	-85 890	-101 469	-96 768	-91 870	-95 085	-92 816	-93 342	-93 408
Petroleum Products								
Primary Energy Supply	-6 282	-7 799	-7 792	-5 412	-12 243	-13 613	-13 577	-11 240
Import	7 671	15 696	12 946	15 410	12 173	11 984	11 014	11 675
Export	-11 855	-21 818	-20 463	-19 064	-23 027	-24 878	-22 624	-22 686
Transformation Sector	82 856	99 876	97 364	92 523	93 923	91 946	86 772	88 726
Power Generation	-3 795	-3 484	-1 868	-1 614	-1 591	-1 861	-1 898	-1 916
Petroleum Refineries	86 651	103 360	99 232	94 137	95 514	93 807	88 670	90 642
Final Energy Consumption	57 471	69 232	69 965	71 399	71 696	72 649	70 936	70 691
Industry	6 787	6 133	5 044	5 408	5 571	5 413	5 036	4 902
Transport	39 943	49 750	54 467	54 409	55 074	56 284	55 750	55 586
Residential	4 659	3 127	2 723	2 848	2 511	2 111	1 952	1 881
Commerce & Public Services	4 076	6 344	3 527	4 129	4 098	4 180	3 564	3 622
Others	2 006	3 878	4 204	4 605	4 442	4 661	4 634	4 700
Natural Gas								
Primary Energy Supply	54 728	80 597	78 613	83 428	83 135	86 128	88 385	87 026
Indigenous Production	88 554	154 099	132 388	132 349	129 652	130 310	137 536	139 112
Import	520	7 831	18 765	25 961	26 069	21 962	18 002	16 297
Export	-33 035	-87 377	-79 128	-76 831	-73 504	-68 836	-65 349	-65 988
Transformation Sector	-2 448	-10 005	-14 063	-15 708	-16 640	-16 301	-16 899	-17 787
Power Generation	-1 869	-8 269	-11 331	-12 919	-13 423	-13 236	-13 863	-14 582
Final Energy Consumption	39 922	43 380	39 251	42 436	40 981	43 913	46 237	44 374
Industry	16 852	13 913	12 717	13 792	14 133	14 783	14 705	14 220
Transport	2 896	4 297	2 464	2 436	2 477	2 894	3 466	3 578
Residential	11 356	13 895	13 220	14 661	13 585	14 734	15 737	14 762
Commerce & Public Services	8 320	10 850	10 282	10 823	9 979	10 674	11 496	10 977
Others	498	425	568	724	807	828	833	837
Electricity								
Power Generation	41 456	53 365	51 932	54 723	54 752	57 211	57 450	57 683
Thermal	8 683	12 008	10 542	10 890	10 343	10 400	10 084	10 981
Hydro	25 519	31 126	30 216	32 309	32 700	33 690	32 893	32 733
Nuclear	6 275	7 915	7 797	8 049	8 158	8 896	9 226	8 722
Others	979	2 316	3 377	3 475	3 551	4 225	5 247	5 247
Final Energy Consumption	35 952	43 811	42 393	43 151	43 815	43 401	43 894	43 265
Industry	14 444	18 078	15 084	15 041	14 786	14 820	14 682	14 488
Transport	281	366	355	362	374	406	410	444
Residential	11 165	12 985	13 816	14 302	14 187	14 811	15 100	14 535
Commerce & Public Services	9 319	11 501	12 320	12 623	9 257	8 581	10 072	10 158
Others	743	881	818	823	5 211	4 783	3 630	3 640

Major Economic Indicators of Canada

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	27.79	32.31	34.01	34.34	34.75	35.16	35.54	35.85
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	1 014	1 525	1 613	1 664	1 693	1 735	1 780	1 796
Real Term (Billions of 2010 Price and 2010 PPP)	870	1 308	1 384	1 427	1 452	1 488	1 527	1 541
Nominal (Billions of Current USD)	594	1 169	1 613	1 789	1 824	1 843	1 793	1 553
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	36 489	47 182	47 447	48 457	48 724	49 355	50 067	50 110
Real Term (2010 Price and 2010 PPP)	31 300	40 471	40 699	41 565	41 795	42 336	42 946	42 983
Nominal (Current USD)	21 372	36 191	47 447	52 082	52 497	52 414	50 440	43 316
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	693	1 417	1 662	1 770	1 823	1 898	1 983	1 986
Household Final Consumption Expenditure	386	769	946	989	1 021	1 061	1 110	1 144
General Government Final Consumption Expenditure	157	271	358	375	385	394	405	418
Gross Fixed Capital Formation	151	310	391	417	448	460	479	471
Stock Change	- 3	11		11	7	14	9	3
Exports of Goods and Services	174	521	483	541	551	572	626	627
Imports of Goods and Services	173	466	515	562	587	604	647	675
Real GDP & its Components (Billions of 2005 CAD) *1								
Gross Domestic Product	1 045	1 571	1 662	1 714	1 744	1 787	1 833	1 851
Household Final Consumption Expenditure	539	816	946	968	987	1 012	1 039	1 059
General Government Final Consumption Expenditure	263	312	358	362	365	362	365	371
Gross Fixed Capital Formation	207	355	391	409	429	435	438	418
Stock Change	- 3	11		13	11	11	7	
Exports of Goods and Services	228	535	483	506	520	534	564	583
Imports of Goods and Services	198	460	515	544	563	573	585	587
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	N.A.	1.3	1.3	1.3	1.5	1.4	1.5
Industry	N.A.	N.A.	26.7	27.1	27.2	27.2	27.5	26.6
Services, etc.	N.A.	N.A.	65.5	65.3	65.3	65.2	65.0	65.8
Industrial Production Index (2010=100) *2	60.0	93.7	100.0	103.0	105.1	107.4	110.0	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	127.63	360.48	387.48	451.33	455.59	458.32	476.30	409.95
Imports, c.i.f.	123.24	322.41	402.69	463.64	476.30	475.78	479.99	436.32
Balance of Payments (Billions of Current USD) *2								
Trade Balance	9.44	50.57	-9.37	0.40	-11.15	-6.96	4.56	0.00
Current Account	-20.26	21.91	-58.16	-49.73	-65.70	-59.45	-43.58	-53.08
Overall Balance	2.37	N.A.	-0.11	N.A.	0.26	N.A.	1.14	N.A.
Foreign Exchange Rate (CAD/USD) *1	1.17	1.21	1.03	0.99	1.00	1.03	1.11	1.28
PPP conversion factor, GDP (CAD/International Dollar) *1	1.24	1.21	1.22	1.24	1.24	1.22	1.24	1.25
Price Indices								
GDP Deflator (2005=100) *3	66.3	90.2	100.0	103.2	104.5	106.2	108.2	107.3
Industry Selling Price (2010=100) *2	71.2	94.2	100.0	106.9	108.1	108.6	111.3	110.3
Consumer Price Index (2010=100) *2	67.3	91.9	100.0	102.9	104.5	105.5	107.5	108.7
Growth Rate (%) *3								
Real GDP	0.15	3.20	3.08	3.14	1.75	2.48	2.57	0.94
Population	1.50	0.99	1.12	0.99	1.19	1.17	1.11	0.86
Price								
Industry Selling Price	0.29	1.64	1.50	6.94	1.10	0.41	2.49	-0.84
Consumer Price Index	4.76	2.21	1.78	2.91	1.52	0.94	1.91	1.13

Source *1 : *World Development Indicators*, World Bank*2 : *International Financial Statistics*, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: CAD means Canadian Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Canada in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	
Local Currency Unit		CAD

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite	USD/tonne	140.91	Anthracite			Anthracite		
Other bituminous coal	USD/tonne	178.58	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	USD/tonne	98.03	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite	USD/tonne	15.12	Lignite			Lignite		
Peat	USD/tonne	58.26	Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil	CAD/Imp BBL	71.89	Crude Oil	CAD/bbl	48.66	Crude Oil		
Natural Gas Liquids	Cents/L	32	Natural Gas Liquids			Natural Gas Liquids		
Ethane	Cents/L	9	Ethane	CAD/bbl	7.49	Ethane		
LPG	Cents/L	21	LPG			LPG	Cents/L	59.13
Naphtha	Cents/L	72	Naphtha			Naphtha		
Motor Gasoline	Cents/L	82	Motor Gasoline	Cents/L	61.70	Motor Gasoline (regular)	Cents/L	108.82
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel	USD/L	1.21	Gasoline Type Jet Fuel	Cents/L	63	Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	Cents/L	81	Kerosene Type Jet Fuel	Cents/L	63	Kerosene Type Jet Fuel		
Other Kerosene	Cents/L	88	Other Kerosene			Other Kerosene		
Gas/Diesel Oil	Cents/L	87	Gas/Diesel Oil	Cents/L	65.90	Gas/Diesel Oil	Cents/L	109.22
Fuel Oil	Cents/L	67	Fuel Oil	Cents/L	64.07	Fuel Oil	Cents/L	105.03
White Spirit SBP	USD/L	1.26	White Spirit SBP			White Spirit SBP		
Lubricants	USD/L	1.98	Lubricants			Lubricants		
Bitumen	Cents/kg	64	Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke	USD/tonne	174.97	Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	Cents/m ³	16	Natural Gas	Cents/m ³	13.70	Natural Gas	Cents/m ³	36.19
Liquefied Natural Gas	USD/m ³	4.07	Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas	Cents/m ³	15	Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity	USD/MWh	35.14	Electricity	Cents/KWh	6.86	Industrial	Cents/KWh	8.74
						Commercial	Cents/KWh	13.82
						Residential	Cents/KWh	11.85
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

Chile

Energy Balance Table of Chile

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	2 090		296						
Import	5 674	2	8 699	7 559	525	146	533		5 408
Export	- 561	- 28		- 489	- 75				- 82
International Marine Bunkers				- 128					
International Aviation Bunkers				- 567			- 567		
Stock Changes		- 12	- 37	- 39	- 34	- 8		- 1	114
Total Primary Energy Supply	7 203	- 38	8 957	6 337	416	139	- 34	- 1	5 440
Transfers			1 065	- 1 003		- 229		- 5	- 115
Total Transformation Sector	- 6 921	252	- 10 322	9 148	3 027	130	609	155	2 615
Main Activity Producer	- 6 556			- 640					- 474
Autoproducers				- 121					- 46
Gas Processing									
Petroleum Refineries			- 10 322	9 909	3 027	130	609	155	3 135
Coal Transformation	- 365	252							
Other Transformation									
Loss & Own Use	- 2	- 156		- 340		- 40			
Discrepancy	- 23	7	300	- 272	- 95		- 14	1	- 382
Total Final Consumption	257	65		13 870	3 348		561	150	7 558
Total Final Energy Consumption	257	65		13 774	3 348		561	150	7 558
Industry Sector	254	65		3 933	1		68	15	2 867
Iron and Steel		56		2					
Chemical & Petrochemical									
Non-metallic Minerals	1			227					6
Other Industries	253	9		3 704	1		68	15	2 861
Transport Sector				8 340	3 347		455	7	4 294
Domestic Air Transport				526	7		455		64
Road				7 488	3 340			7	4 103
Rail				32					32
Inland Waterways				294					95
Other transport									
Other Sector	3			1 501			38	128	397
Residential				765				126	
Commerce and Public Services	3			526			38	2	249
Agriculture									
Non-specified Others				210					148
Non-energy				96					
2014									
Indigenous Production	2 769		435						
Import	5 640	4	9 088	7 294	471	20	428		5 077
Export	- 1 478	- 102		- 565	- 82				- 392
International Marine Bunkers				- 198					
International Aviation Bunkers				- 655			- 655		
Stock Changes	- 250	27	32	- 32	- 14	40	- 16	- 41	- 32
Total Primary Energy Supply	6 681	- 71	9 555	5 844	375	60	- 243	- 41	4 653
Transfers			1 170	- 1 141	- 353	- 143			- 146
Total Transformation Sector	- 6 090	272	- 10 631	8 920	2 988	83	666	150	2 629
Main Activity Producer	- 5 647			- 804					- 619
Autoproducers				- 165					- 38
Gas Processing				- 6					
Petroleum Refineries			- 10 631	9 895	2 988	83	666	150	3 286
Coal Transformation	- 443	272							
Other Transformation									
Loss & Own Use	- 1	- 195		- 296					- 30
Discrepancy	- 368	1	- 94	314	273		- 8	- 9	- 354
Total Final Consumption	222	7		13 641	3 283		415	100	6 752
Total Final Energy Consumption	222	7		13 074	3 283		415	100	6 752
Industry Sector	220	7		3 827	1		136	23	2 563
Iron and Steel				3					
Chemical & Petrochemical	1								7
Non-metallic Minerals				227					
Other Industries	219	7		3 597	1		136	23	2 556
Transport Sector				7 782	3 281		234	3	3 863
Domestic Air Transport				240	3		234		3
Road				7 090	3 272			3	3 768
Rail				58					10
Inland Waterways				394	6				82
Other transport									
Other Sector	2			1 465	1		45	74	326
Residential				905				73	4
Commerce and Public Services	2			368	1		45	1	158
Agriculture									
Non-specified Others				192					164
Non-energy				567					

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					846	2 054		320	7 300			12 906
31	878			38	3 132							25 066
- 290	- 42											- 1 078
- 128												- 128
												- 567
- 12	- 37			- 61	2							- 86
- 399	799			- 23	3 980	2 054		320	7 300			36 113
				- 561								62
1 116	344	231		921	- 1 932	- 2 054		- 290	- 3 709	6 483		- 9 345
- 12				- 154	- 1 901	- 2 050		- 290	- 928	5 948		- 6 417
- 74	- 1				- 39	- 4			- 2 708	535		- 2 337
					8				- 1			7
1 202	345	231		1 075								- 413
												- 113
									- 72			- 72
- 62	- 7	- 231			- 245					- 663		- 1 406
77	153			- 12	- 289				74	- 72		- 275
732	1 196			325	1 514			30	3 665	5 748		25 149
732	1 193			232	1 384			30	3 665	5 748		24 923
467	283			232	771				1 943	3 635		10 601
	2				31					65		154
					62					4		66
	1			220	9				14	41		292
467	280			12	669				1 929	3 525		10 089
202	35				27					79		8 446
												526
3	35				27					14		7 529
										65		97
199												294
63	875				586			30	1 722	2 034		5 876
	639				442				1 696	1 011		3 914
10	227				140				26	1 014		1 709
53	9				4			30		9		253
	3			93	130							226
					664	1 987		195	7 380		46	13 476
63	1 068			167	2 914							24 940
- 64	- 27											- 2 145
- 198												- 198
												- 655
12	9			10	46							- 177
- 186	1 050			176	3 625	1 987		195	7 380		46	35 242
				- 332								29
974	351	242		837	- 1 691	- 1 987		- 165	- 3 507	6 155	- 46	- 8 770
- 37				- 148	- 1 688	- 1 973		- 163	- 639	5 621		- 5 293
- 127					- 15	- 14		- 2	- 2 787	509		- 2 474
	- 6				12				- 2			4
1 138	357	242		985								- 736
									- 79	25	- 46	- 100
- 8	- 16	- 242			- 426					- 546		- 1 464
136	257			19	- 209				149	143		- 64
916	1 475			700	1 299			30	4 022	5 752		24 973
916	1 342			266	1 184			30	4 022	5 752		24 291
498	340			266	586				2 186	3 727		10 553
	3				33					34		70
					68					4		73
3				217	4				5	38		274
495	337			49	481				2 181	3 651		10 136
366	35				34					58		7 874
												240
12	35				30					10		7 130
48										48		106
306												394
					4							4
52	967				564			30	1 836	1 967		5 864
	828				429				1 757	978		4 069
32	131				135				78	980		1 563
20	8							30	1	9		232
	133			434	115							682

Major Energy Indicators of Chile

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	14 009	28 365	30 852	33 614	37 200	38 692	35 242	36 113
Indigenous Production	7 928	9 337	9 213	9 881	13 018	14 978	13 476	12 906
Import	7 238	22 239	22 923	25 451	25 850	26 816	24 940	25 066
Export	- 212	-1 748	- 626	- 631	- 874	-1 604	-2 145	-1 078
Final Energy Consumption	10 175	19 410	22 835	24 356	24 223	26 010	24 291	24 923
Industry	3 407	7 282	8 709	9 533	9 065	9 971	10 553	10 601
Transport	3 045	6 158	7 142	7 273	7 464	8 150	7 874	8 446
Residential	3 120	4 907	5 325	5 586	5 963	6 114	4 069	3 914
Commerce & Public Services	478	927	1 367	1 585	1 430	1 531	1 563	1 709
Others	125	136	292	379	301	244	232	253
Coal, Coal Products								
Primary Energy Supply	2 496	2 703	4 464	5 418	6 167	6 658	6 610	7 165
Indigenous Production	1 451	269	254	245	295	1 591	2 769	2 090
Import	1 132	2 441	3 809	5 455	5 950	6 179	5 644	5 676
Export		- 27				- 662	-1 580	- 589
Transformation Sector	-1 850	-1 934	-3 982	-4 987	-5 940	-6 766	-5 818	-6 669
Power Generation	-1 678	-1 715	-3 856	-4 786	-5 671	-6 635	-5 647	-6 556
Final Energy Consumption	581	581	406	340	192	211	229	322
Industry	524	565	401	337	190	209	227	319
Transport								
Residential	15	1						
Commerce & Public Services	3	3					2	3
Others	39	12	5	3	2	2		
Crude Oil								
Primary Energy Supply	6 572	10 894	9 268	9 973	9 507	9 979	9 555	8 957
Indigenous Production	1 166	355	611	641	532	539	435	296
Import	5 561	10 539	8 658	9 269	8 850	9 647	9 088	8 699
Export								
Transformation Sector	-6 279	-11 242	-9 895	-10 917	-10 666	-10 592	-10 631	-10 322
Petroleum Refineries	-6 279	-11 242	-9 895	-10 950	-10 677	-10 632	-10 631	-10 322
Petroleum Products								
Primary Energy Supply	- 102	666	5 742	5 817	6 102	5 866	5 844	6 337
Import	545	3 787	7 341	7 310	7 729	7 694	7 294	7 559
Export	- 212	-1 721	- 626	- 631	- 874	- 942	- 565	- 489
Transformation Sector	5 757	10 087	7 115	7 563	7 414	8 372	8 920	9 148
Power Generation	- 476	- 988	-1 754	-1 439	-1 819	-1 204	- 969	- 761
Petroleum Refineries	6 277	11 084	8 874	9 126	9 259	9 621	9 895	9 909
Final Energy Consumption	5 310	9 383	11 791	12 465	12 103	13 097	13 074	13 774
Industry	1 338	2 073	3 034	3 234	2 943	3 321	3 827	3 933
Transport	3 021	6 105	7 087	7 215	7 392	8 076	7 782	8 340
Residential	753	880	932	1 000	991	1 028	905	765
Commerce & Public Services	123	227	463	654	499	461	368	526
Others	75	98	275	362	278	211	192	210
Natural Gas								
Primary Energy Supply	1 142	6 796	4 467	4 564	4 285	4 060	3 625	3 980
Indigenous Production	1 410	1 605	1 546	1 244	1 029	812	664	846
Import		5 274	3 006	3 326	3 292	3 267	2 914	3 132
Export								
Transformation Sector	- 13	-2 722	-1 740	-2 309	-2 383	-2 067	-1 691	-1 932
Power Generation	- 62	-2 708	-1 752	-2 407	-2 409	-2 078	-1 703	-1 940
Final Energy Consumption	207	1 268	1 647	1 532	1 185	1 245	1 184	1 384
Industry	2	777	1 100	992	625	670	586	771
Transport	6	31	18	17	29	28	34	27
Residential	171	357	398	397	400	417	429	442
Commerce & Public Services	28	88	129	126	131	130	135	140
Others		15	2					4
Electricity								
Power Generation	1 580	4 513	5 197	5 650	5 998	6 269	6 130	6 483
Thermal	719	1 693	2 933	3 193	530	293	552	838
Hydro	768	2 277	1 868	1 807	1 733	1 697	1 987	2 054
Nuclear								
Others	93	543	396	650	3 735	4 279	3 591	3 591
Final Energy Consumption	1 330	4 155	4 708	4 980	5 352	5 607	5 752	5 748
Industry	872	2 801	3 084	3 304	3 625	3 675	3 727	3 635
Transport	18	22	37	41	43	46	58	79
Residential	372	712	805	821	873	935	978	1 011
Commerce & Public Services	60	609	775	804	800	938	980	1 014
Others	8	11	7	10	11	13	9	9

Major Economic Indicators of Chile

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	13.24	16.15	16.99	17.15	17.31	17.46	17.61	17.76
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	78.8	181.7	218.5	231.9	244.2	254.1	259.0	264.8
Real Term (Billions of 2010 Price and 2010 PPP)	112.4	259.3	311.9	331.0	348.6	362.7	369.6	378.0
Nominal (Billions of Current USD)	33.1	123.0	218.5	252.3	267.1	278.4	261.0	242.5
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	5 948	11 250	12 860	13 519	14 109	14 551	14 702	14 907
Real Term (2010 Price and 2010 PPP)	8 490	16 058	18 357	19 297	20 140	20 770	20 986	21 279
Nominal (Current USD)	2 501	7 615	12 860	14 706	15 432	15 941	14 817	13 653
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	10 096	68 832	111 509	122 006	129 947	137 876	148 855	158 637
Household Final Consumption Expenditure	5 720	40 528	65 037	73 357	80 118	86 377	93 735	100 870
General Government Final Consumption Expenditure	902	7 280	13 502	14 535	15 496	16 960	19 080	20 912
Gross Fixed Capital Formation	2 421	15 248	24 035	28 207	32 325	34 199	35 445	37 482
Stock Change	182	- 215	1 768	1 858	2 045	1 132	- 862	- 452
Exports of Goods and Services	3 281	27 643	42 089	46 072	44 340	44 395	49 213	47 081
Imports of Goods and Services	2 953	21 652	34 923	42 023	44 377	45 188	47 755	47 255
Real GDP & its Components (Billions of 2008 CLP) *1								
Gross Domestic Product	42 735	98 564	118 578	125 824	132 516	137 876	140 509	143 674
Household Final Consumption Expenditure	21 402	54 733	71 982	77 885	82 597	86 377	88 683	90 460
General Government Final Consumption Expenditure	7 227	12 073	15 520	15 900	16 490	16 960	17 708	18 508
Gross Fixed Capital Formation	5 119	18 821	25 610	29 746	33 103	34 199	32 546	32 300
Stock Change						1 132	- 768	- 375
Exports of Goods and Services	11 180	37 060	40 623	42 839	42 991	44 395	44 549	43 745
Imports of Goods and Services	5 568	24 598	36 576	42 129	44 312	45 188	42 209	41 056
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	3.9	3.9	3.7	3.9	3.5	3.4	3.3	3.5
Industry	42.7	36.5	32.3	31.3	31.1	31.2	30.8	30.5
Services, etc.	46.4	52.4	56.0	56.6	56.9	56.9	57.4	57.6
Industrial Production Index (2010=100) *2	N.A.	99.0	100.0	107.1	114.4	112.4	112.5	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b	8.37	41.27	71.11	81.44	77.79	76.39	74.92	62.23
Imports, c.i.f.	7.74	32.74	59.21	74.69	80.07	79.27	72.83	62.52
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.28	10.84	15.74	11.04	2.33	1.82	7.77	0.00
Current Account	-0.48	1.45	2.97	-4.26	-10.71	-11.52	-4.50	-4.67
Overall Balance	2.37	3.04	3.88	14.77	-0.66	1.45	0.80	0.00
Foreign Exchange Rate (CLP/USD) *1	305	560	510	484	486	495	570	654
PPP conversion factor, GDP (CLP/International Dollar) *1	N.A.	334	357	348	347	350	366	379
Price Indices								
GDP Deflator (2008=100) *3	23.6	69.8	94.0	97.0	98.1	100.0	105.9	110.4
Wholesale Prices (2010=100) *2	26.2	76.5	100.0	105.9	100.0	96.1	96.3	89.6
Consumer Price Index (2010=100) *2	N.A.	N.A.	100.0	103.3	106.4	108.4	113.1	118.0
Growth Rate (%) *3								
Real GDP	3.33	5.74	5.84	6.11	5.32	4.05	1.91	2.25
Population	1.66	1.08	0.97	0.94	0.91	0.89	0.86	0.85
Price								
Wholesale Prices	21.77	5.39	-2.04	5.86	-5.53	-3.92	0.23	-6.93
Consumer Price Index	N.A.	N.A.	1.41	3.34	3.01	1.79	4.40	4.35

Source *1 : *World Development Indicators*, World Bank*2 : *International Financial Statistics*, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: CLP means Chilean Peso, USD means United States Dollar

: PPP means Purchasing Power Parity

People's Republic of China

Energy Balance Table of People's Republic of China

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	1858 627		217 050						
Import	100 467	25	335 483	52 617	171	6 099	3 569	24	437
Export	-3 170	-6 620	-2 866	-41 120	-5 918		-12 880	-16	-7 306
International Marine Bunkers				-9 227					-445
International Aviation Bunkers				-7 799			-7 799		
Stock Changes	12 740	1 080	-6 238	-2 707	-1 491	-294	-154	-24	56
Total Primary Energy Supply	1968 665	-5 515	543 429	-8 237	-7 238	5 806	-17 264	-16	-7 258
Transfers									
Total Transformation Sector	-1341 441	141 933	-534 678	509 053	123 690	36 104	36 669	1 986	182 866
Main Activity Producer	-778 958	-1 268	-125	-3 207					-228
Autoproducers	-165 031	-32 243	-67	-3 594	-2				-63
Gas Processing	-6 480	-13							
Petroleum Refineries			-545 202	515 855	123 693	36 104	36 669	1 986	183 157
Coal Transformation	-390 971	175 456							
Other Transformation			10 715						
Loss & Own Use	-43 886	-6 554	-5 278	-4 004	-526			-19	-2 577
Discrepancy	-162	6 389	-52	-329	-171	58	-376	-333	68
Total Final Consumption	583 177	136 252	3 421	496 484	115 755	41 968	19 029	1 618	173 099
Total Final Energy Consumption	536 287	115 943	2 078	401 604	115 659	2 975	19 029	1 598	172 818
Industry Sector	432 136	111 751	2 078	80 583	8 495	2 975		308	17 463
Iron and Steel	71 510	72 120		1 446	117			2	690
Chemical & Petrochemical	47 790	15 911	2 067	43 785	315	2 973		31	697
Non-metallic Minerals	147 133	8 340	2	8 815	295			11	2 793
Other Industries	165 703	15 380	9	26 537	7 768	2		263	13 283
Transport Sector	2 395	21		220 410	83 065		19 029		113 276
Domestic Air Transport				20 060			19 029		361
Road				163 073	76 112				85 756
Rail	2 306	21		3 332	77				3 225
Inland Waterways	89			20 602	1 572				15 995
Other transport				13 343	5 305				7 940
Other Sector	101 756	4 171		100 611	24 100			1 289	42 079
Residential	46 387	3 247		40 997				300	10 105
Commerce and Public Services	20 250	453		3 947				120	2 629
Agriculture	13 473	337		17 717	2 383			11	15 227
Non-specified Others	21 646	134		37 950	21 717			858	14 118
Non-energy	46 890	20 309	1 343	94 880	96	38 993		20	281
2014									
Indigenous Production	1905 066		213 965						
Import	124 790	1	308 374	45 957	34	3 393	4 033	234	483
Export	-3 329	-5 785	-600	-34 305	-5 097	-121	-11 087	-29	-4 187
International Marine Bunkers				-7 154					-215
International Aviation Bunkers				-7 171			-7 171		
Stock Changes	-18 007	-1 607	-3 757	-9 041	-7 699	-752	-163	-15	-955
Total Primary Energy Supply	2008 519	-7 391	517 983	-11 713	-12 762	2 519	-14 388	190	-4 874
Transfers									
Total Transformation Sector	-1361 976	147 093	-508 369	482 524	112 645	36 347	31 656	1 033	179 490
Main Activity Producer	-819 437	-1 258	-89	-3 239					-263
Autoproducers	-134 391	-32 437	-70	-3 872	-1				-48
Gas Processing	-4 838	-223							
Petroleum Refineries			-518 282	489 636	112 646	36 347	31 656	1 033	179 802
Coal Transformation	-403 310	181 011							
Other Transformation			10 071						
Loss & Own Use	-49 841	-6 529	-5 769	-4 451	-557			-20	-2 954
Discrepancy	13 399	6 564	23	-468	59	-21	-17	7	-77
Total Final Consumption	610 101	139 737	3 868	465 892	99 384	38 845	17 250	1 210	171 585
Total Final Energy Consumption	567 470	118 257	274	377 866	99 278	5 052	17 250	1 190	171 305
Industry Sector	465 262	113 448	274	77 948	7 775	5 052		245	18 277
Iron and Steel	76 724	74 701		1 545	135			2	763
Chemical & Petrochemical	41 750	13 897	252	41 496	344	5 050		28	734
Non-metallic Minerals	153 083	9 621	2	8 895	303			11	2 998
Other Industries	193 705	15 230	21	26 012	6 993	2		205	13 782
Transport Sector	2 676	18		209 802	71 370		17 250	1	112 480
Domestic Air Transport				18 299			17 250		356
Road				150 265	64 934				84 248
Rail	2 584	18		3 924	82			1	3 810
Inland Waterways	91			24 470	1 452				16 221
Other transport				12 844	4 902				7 844
Other Sector	99 532	4 791		90 117	20 133			944	40 548
Residential	45 627	3 865		36 416				297	10 041
Commerce and Public Services	19 707	495		3 677				116	2 347
Agriculture	13 154	237		17 554	2 231			8	15 218
Non-specified Others	21 044	194		32 469	17 902			523	12 941
Non-energy	42 632	21 481	3 594	88 026	107	33 793		20	280

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					119 795	95 844	44 508	16 309	72 448			2424 581
15 404	14 927			11 985	54 283					534		543 408
-10 517	-1 730			-2 754	-2 888					-1 604		-58 268
-8 782												-9 227
												-7 799
37	-312			-526								4 876
-3 857	12 886			8 705	171 190	95 844	44 508	16 309	72 448	-1 070		2897 571
14 247	30 625	17 278		65 588	-32 306	-95 844	-44 508	-16 309	-44 348	500 053	95 983	-862 411
-976		-555		-1 449	-26 564	-95 844	-44 508	-16 309	-33 632	442 340	52 452	-505 623
-991	-39	-1 449		-1 049	-7 040					57 714	43 531	-106 730
					1 298							-5 195
16 214	30 665	19 281		68 087								-29 347
												-215 515
									-10 715			
-239	-14	-279		-350	-25 355				-249	-83 471	-12 647	-181 443
292	-564	59		639	597				-198	-11	12	6 246
10 443	42 933	17 057		74 583	114 126				27 653	415 501	83 348	1859 963
9 126	40 125	16 794		23 480	109 575				27 653	415 501	83 348	1691 989
4 927	6 142	16 794		23 480	47 953				8 621	279 867	55 801	1018 791
38	210	18		371	3 907				651	45 860	5 663	201 158
1 437	4 262	16 772		17 299	18 209				881	40 885	23 086	192 614
1 916	882	4		2 914	7 438				367	26 707	255	199 057
1 536	787	1		2 896	18 399				6 722	166 416	26 797	425 962
3 840	1 200				20 120					9 680		252 625
670	1											20 060
38	1 167				18 237					3 237		184 547
19	12									4 351		10 010
3 030	6											20 691
83	14				1 882					2 092		17 317
360	32 783				41 502				19 032	125 953	27 548	420 573
	30 592				32 737				13 682	65 061	22 428	224 539
190	1 008				4 637				648	18 250	1 461	49 645
9	86				84				3 449	8 943	26	44 027
161	1 096				4 044				1 253	33 700	3 633	102 362
1 317	2 808	263		51 102	4 551							167 974
17 846	8 873			11 063	115 832	90 399	34 539	13 553	75 579			2448 934
-9 477	-1 733			-2 575	52 529					581		532 231
-6 939					-2 322					-1 562		-47 903
												-7 154
												-7 171
-62	-96			702								-32 411
1 367	7 044			9 190	166 039	90 399	34 539	13 553	75 579	-981		2886 526
12 442	29 113	15 719		64 080	-26 421	-90 399	-34 539	-13 553	-45 677	485 864	90 418	-875 035
-1 015		-714		-1 246	-21 408	-90 399	-34 539	-13 553	-35 606	439 690	49 195	-530 643
-989	-33	-1 793		-1 008	-5 786					46 174	41 222	-89 159
					773							-4 289
14 446	29 146	18 226		66 334								-28 646
												-222 299
									-10 071			
-151	-35	-318		-415	-25 202					-81 871	-12 210	-185 873
-14	-35	17		-386	106				-175	17	7	19 472
13 644	36 087	15 418		72 470	114 521				29 726	403 028	78 214	1845 090
13 206	32 561	15 227		22 799	109 031				29 726	403 028	78 214	1683 868
5 240	3 334	15 227		22 799	51 891				11 682	275 238	53 117	1048 861
55	207	12		372	3 882				1 262	49 842	6 386	214 342
1 716	1 325	15 210		17 089	22 610				1 932	39 799	21 963	183 698
1 919	919	4		2 739	8 233				767	28 590	250	209 440
1 550	882	1		2 598	17 166				7 721	157 007	24 518	441 380
7 629	1 072				17 950					9 109		239 555
692	1											18 299
40	1 042				16 307					1 968		168 540
20	11									5 135		11 661
6 792	5											24 562
86	13				1 642					2 007		16 493
338	28 155				39 191				18 044	118 681	25 098	395 452
	26 078				31 205				12 908	61 714	20 669	212 404
174	1 040				4 239				617	17 162	1 370	47 266
13	85				70				3 349	8 715	21	43 101
151	952				3 676				1 171	31 089	3 037	92 681
438	3 526	191		49 671	5 490							161 222

Major Energy Indicators of People's Republic of China

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	654 004	1670 933	2419 681	2690 859	2780 035	2847 971	2886 526	2897 571
Indigenous Production	705 811	1522 436	2118 274	2348 832	2396 588	2450 282	2448 934	2424 581
Import	8 436	184 223	396 278	450 190	471 781	504 744	532 231	543 408
Export	-38 922	-46 901	-51 504	-48 285	-40 982	-45 879	-47 903	-58 268
Final Energy Consumption	489 928	941 649	1350 918	1532 430	1630 962	1646 877	1683 868	1691 989
Industry	329 825	581 681	864 642	1001 899	1063 550	1037 945	1048 861	1018 791
Transport	28 776	119 123	172 131	190 197	210 196	226 822	239 555	252 625
Residential		131 226	170 925	182 587	189 963	202 885	212 404	224 539
Commerce & Public Services		25 923	35 058	40 035	42 716	45 592	47 266	49 645
Others	131 327	83 695	108 162	117 712	124 537	133 633	135 782	146 389
Coal, Coal Products								
Primary Energy Supply	512 155	1239 711	1753 092	1973 503	2009 895	2018 271	2001 129	1963 150
Indigenous Production	539 952	1224 325	1686 511	1897 524	1916 113	1938 443	1905 066	1858 627
Import	877	15 615	94 723	113 713	111 674	123 863	124 791	100 492
Export	-7 785	-18 529	-12 623	-10 798	-6 141	-7 434	-9 114	-9 790
Transformation Sector		-750 240	-1008 609	-1119 409	-1141 109	-1215 938	-1214 883	-1199 508
Power Generation	-119 784	-601 102	-810 038	-915 698	-922 201	-992 986	-987 522	-977 500
Final Energy Consumption	338 239	426 028	591 987	696 811	747 196	693 088	685 727	652 230
Industry	224 832	324 641	491 042	590 928	642 874	586 867	578 710	543 887
Transport	11 089	4 194	3 098	3 235	2 931	2 941	2 694	2 416
Residential		57 047	51 675	52 080	49 988	49 153	49 492	49 634
Commerce & Public Services		14 830	16 665	18 909	19 293	20 372	20 202	20 703
Others	102 319	25 316	29 507	31 659	32 109	33 755	34 629	35 590
Crude Oil								
Primary Energy Supply	117 828	300 892	429 522	441 339	468 935	489 544	517 983	543 429
Indigenous Production	138 448	181 353	203 770	204 604	209 566	212 754	213 965	217 050
Import	2 926	126 817	237 682	253 779	271 027	281 742	308 374	335 483
Export	-24 014	-8 067	-3 030	-2 514	-2 432	-1 617	-6 000	-2 866
Transformation Sector		-290 848	-419 520	-434 390	-461 545	-480 940	-508 369	-534 678
Petroleum Refineries	-109 722	-293 503	-426 153	-441 728	-469 963	-490 458	-518 282	-545 202
Petroleum Products								
Primary Energy Supply	-3 389	16 868	-1 146	4 714	-3 287	-1 981	-11 713	-8 237
Import	4 634	41 360	48 262	53 470	51 407	52 039	45 957	52 617
Export	-7 123	-16 579	-30 461	-30 343	-28 319	-32 780	-34 305	-41 120
Transformation Sector		264 513	392 747	409 849	434 962	456 769	482 524	509 053
Power Generation	-11 140	-16 493	-9 291	-7 784	-7 209	-6 570	-7 112	-6 802
Petroleum Refineries	107 409	281 150	402 038	417 632	442 171	463 339	489 636	515 855
Final Energy Consumption	80 728	235 795	311 010	330 917	344 480	365 450	377 866	401 604
Industry	47 912	69 282	86 854	86 489	77 129	77 354	77 948	80 583
Transport	16 676	108 362	153 676	167 758	186 718	200 620	209 802	220 410
Residential		20 352	26 517	28 654	29 722	32 456	36 416	40 997
Commerce & Public Services		2 685	3 323	3 419	3 630	3 653	3 677	3 947
Others	16 140	35 113	40 639	44 599	47 281	51 367	50 024	55 667
Natural Gas								
Primary Energy Supply	14 242	43 153	100 564	123 765	132 944	151 570	166 039	171 190
Indigenous Production	14 242	45 917	89 181	98 069	98 434	107 553	115 832	119 795
Import			15 134	28 664	37 081	46 460	52 529	54 283
Export		-2 764	-3 752	-2 968	-2 572	-2 443	-2 322	-2 888
Transformation Sector		15 168	-18 338	-22 099	-22 483	-24 858	-26 421	-32 306
Power Generation	-680	-9 887	-19 932	-23 671	-23 443	-25 356	-27 194	-33 604
Final Energy Consumption	13 205	45 626	64 013	80 556	85 514	97 877	109 031	109 575
Industry	11 084	32 504	27 504	36 953	39 469	46 765	51 891	47 953
Transport	47	2 866	9 040	11 908	12 675	14 654	17 950	20 120
Residential		8 346	22 466	25 888	26 851	29 635	31 205	32 737
Commerce & Public Services		1 061	2 536	3 228	3 535	3 592	4 239	4 637
Others	2 074	849	2 467	2 579	2 983	3 231	3 747	4 128
Electricity								
Power Generation	53 440	215 022	361 816	405 320	428 930	467 121	485 864	500 053
Thermal	42 540	174 226	266 763	304 916	309 031	333 764	334 908	340 362
Hydro	10 900	34 143	62 107	60 109	74 200	78 344	90 399	95 844
Nuclear		4 566	6 354	7 426	8 376	9 599	11 398	14 688
Others		2 087	26 592	32 868	37 322	45 414	49 159	49 159
Final Energy Consumption	52 150	171 345	296 693	331 944	354 460	385 633	403 028	415 501
Industry	40 392	118 156	205 710	231 001	243 330	262 726	275 238	279 867
Transport	964	3 701	6 317	7 296	7 872	8 608	9 109	9 680
Residential		24 809	44 072	48 333	53 483	60 107	61 714	65 061
Commerce & Public Services		6 470	11 111	12 926	14 547	16 141	17 162	18 250
Others	10 794	18 208	29 484	32 387	35 227	38 051	39 804	42 643

Major Economic Indicators of People's Republic of China

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	1 135.2	1 303.7	1 337.7	1 344.1	1 350.7	1 357.4	1 364.3	1 371.2
Gross Domestic Product *4								
Real Term (Billions of 2010 Price and 2010 USD)	830	3 570	6 101	6 682	7 207	7 767	8 333	8 908
Real Term (Billions of 2010 Price and 2010 PPP)	1 733	7 457	12 743	13 958	15 055	16 222	17 406	18 607
Nominal (Billions of Current USD)	395	2 286	6 101	7 573	8 561	9 607	10 482	11 065
GDP per Capita *4								
Real Term (2010 Price and 2010 USD)	731	2 738	4 561	4 972	5 336	5 722	6 108	6 497
Real Term (2010 Price and 2010 PPP)	1 526	5 719	9 526	10 384	11 146	11 951	12 759	13 570
Nominal (Current USD)	348	1 753	4 561	5 634	6 338	7 078	7 683	8 069
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	1 887	18 732	41 303	48 930	54 037	59 524	64 397	68 905
Household Final Consumption Expenditure	944	7 523	14 606	17 653	19 854	21 976	24 254	26 598
General Government Final Consumption Expenditure	257	2 622	5 294	6 449	7 258	8 058	8 577	9 629
Gross Fixed Capital Formation	464	7 581	18 583	21 967	24 460	27 092	29 005	30 150
Stock Change	192	172	1 083	1 366	1 064	1 115	1 266	1 133
Exports of Goods and Services	265	6 465	10 849	12 964	13 730	14 586	15 507	15 141
Imports of Goods and Services	201	5 316	9 344	11 795	12 266	13 131	13 892	12 740
Real GDP & its Components (Billions of 2000 CNY) *1								
Gross Domestic Product	5 616	24 169	41 303	45 242	48 796	52 582	56 419	60 312
Household Final Consumption Expenditure	1 582	8 858	14 606	16 358	17 784	19 071	20 641	22 296
General Government Final Consumption Expenditure	441	3 084	5 294	5 980	6 505	6 997	7 300	7 981
Gross Fixed Capital Formation	1 151	9 475	18 583	20 221	22 069	24 130	25 796	27 565
Stock Change	504	157	1 083	1 264	959	991	1 124	1 017
Exports of Goods and Services			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	32.6	13.2	9.5	9.1	8.8	8.5	8.2	8.0
Industry	32.3	44.5	46.4	46.9	47.1	47.2	47.2	46.9
Services, etc.	42.1	42.8	44.1	44.1	44.1	44.3	44.5	45.1
Industrial Production Index (2010=100) *4	9.4	57.6	100.0	110.4	118.9	127.8	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	62.09	761.95	1,577.75	1,898.38	2,048.71	2,209.01	2,342.29	2,273.47
Imports, c.i.f.	53.35	659.95	1,396.25	1,743.48	1,818.41	1,949.99	1,959.23	1,679.57
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	119.66	245.54	236.05	297.75	351.77	N.A.	N.A.
Current Account	N.A.	132.38	237.81	136.10	215.39	148.20	236.05	304.16
Overall Balance	N.A.	227.73	524.68	401.57	183.63	494.30	184.65	-129.98
Foreign Exchange Rate (CNY/USD) *1	4.78	8.19	6.77	6.46	6.31	6.20	6.14	6.23
PPP conversion factor, GDP CNY/International Dollar) *1	1.69	2.82	3.31	3.51	3.52	3.55	3.51	3.48
Price Indices								
GDP Deflator (2000=100) *4	33.6	77.5	100.0	108.2	110.7	113.2	114.1	114.2
Wholesale Price Index (1995=100) *4	51.8	108.5	122.9	130.3	128.1	125.7	N.A.	N.A.
Consumer Price Index (1995=100) *4	58.3	100.9	114.1	119.7	122.1	123.8	N.A.	N.A.
Growth Rate (%)								
Real GDP *4	3.91	11.40	10.64	9.54	7.86	7.76	7.30	6.90
Population *4	1.48	0.59	0.48	0.48	0.49	0.49	0.51	0.51
Price *4								
Wholesale Price Index	4.10	4.91	5.51	6.01	-1.70	-1.91	N.A.	N.A.
Consumer Price Index	2.11	0.81	3.10	4.90	1.99	1.40	N.A.	N.A.

Source *1 : *World Development Indicators*, World Bank*2 : *International Financial Statistics*, International Monetary Fund*3 : *China Statistics Yearbook*, China Statistical Publishing House

*4 : Calculated from *1, *2 and *3 by the Coordinating Agency

Note : N.A. means "not available"

: CNY means Yuan Renminbi, USD means United States Dollar

: PPP means Purchasing Power Parity

Hong Kong, China

Energy Balance Table of Hong Kong, China

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production									
Import	7 044			20 122	538	266	6 010	6	5 183
Export				- 701	- 6				- 298
International Marine Bunkers				-8 741					-2 030
International Aviation Bunkers				-6 181			-6 181		
Stock Changes	- 350			-1 066	- 55		176		- 584
Total Primary Energy Supply	6 694			3 433	477	266	5	6	2 272
Transfers									
Total Transformation Sector	-6 694			- 328		- 266			- 62
Main Activity Producer	-6 694			- 62					- 62
Autoproducers									
Gas Processing				- 266		- 266			
Petroleum Refineries									
Coal Transformation									
Other Transformation									
Loss & Own Use									
Discrepancy				- 771	86				- 857
Total Final Consumption				2 334	563		4	6	1 353
Total Final Energy Consumption				2 334	563		4	6	1 353
Industry Sector									
Iron and Steel				104				1	102
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries				104				1	102
Transport Sector									
Domestic Air Transport				2 024	563		3		1 137
Road				3			3		
Rail				1 835	525				988
Inland Waterways				186	37				149
Other transport									
Other Sector									
Residential				207			2	5	114
Commerce and Public Services				62					
Agriculture				145			2	4	114
Non-specified Others									
Non-energy									
2014									
Indigenous Production									
Import	8 685			16 506	401	238	5 667	6	3 331
Export				- 501	- 14		- 1		- 95
International Marine Bunkers				-7 696					-1 459
International Aviation Bunkers				-5 873			-5 873		
Stock Changes	- 545			691	71	36	212		162
Total Primary Energy Supply	8 140			3 126	458	274	5	6	1 939
Transfers									
Total Transformation Sector	-8 140			- 323		- 274			- 48
Main Activity Producer	-8 140			- 50					- 48
Autoproducers									
Gas Processing				- 274		- 274			
Petroleum Refineries									
Coal Transformation									
Other Transformation									
Loss & Own Use									
Discrepancy				- 449	89		1		- 539
Total Final Consumption				2 354	547		6	6	1 352
Total Final Energy Consumption				2 354	547		6	6	1 352
Industry Sector									
Iron and Steel				102				1	100
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries				102				1	100
Transport Sector									
Domestic Air Transport				2 045	547		3		1 146
Road				3			3		
Rail				1 858	510				998
Inland Waterways				184	37				147
Other transport									
Other Sector									
Residential				207			3	5	106
Commerce and Public Services				90					
Agriculture				118			3	5	106
Non-specified Others									
Non-energy									

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
								1	64			65
7 707	411				2 953				6	1 010		31 135
- 397										- 102		- 803
-6 711												-8 741
												-6 181
- 599	- 3											-1 416
	408				2 953			1	70	908		14 059
								- 1	- 26	3 266		-6 135
					-2 352					3 261		-5 847
								- 1	- 13	4		- 9
												- 266
									- 13			- 13
										- 393		- 393
												- 772
	408				601				44	3 781		6 760
	408				601				44	3 781		6 760
										221		351
					27							351
										221		351
	322								5	71		2 100
												3
	322								5			1 840
										71		71
												186
	86				574				38	3 489		4 309
	62				316					1 012		1 390
	24				258				38	2 477		2 918
								1	63			64
6 425	438				2 258				7	885		28 340
- 391										- 105		- 607
-6 237												-7 696
												-5 873
205	5											146
1	443				2 258			1	70	779		14 375
								- 1	- 24	3 436		-7 036
- 1					-1 984					3 431		-7 016
					-2 258			- 1	- 12	4		- 8
						274						
									- 12			- 12
										- 429		- 429
										- 8		- 42
	443				689				46	3 778		6 867
	443				689				46	3 778		6 867
										220		352
					29							352
										220		352
	350								6	69		2 119
												3
	350								6			1 864
										69		69
												184
	93				659				41	3 488		4 396
	89				368					1 037		1 495
	4				292				41	2 451		2 902

Major Energy Indicators of Hong Kong, China

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	10 643	14 094	13 359	13 889	13 823	14 118	14 375	14 059
Indigenous Production		81	56	53	67	64	64	65
Import	12 918	25 210	32 137	30 577	29 027	29 410	28 340	31 135
Export	-2 123	-1 763	- 726	- 904	- 971	- 770	- 607	- 803
Final Energy Consumption	6 689	6 696	6 693	6 732	6 837	6 746	6 867	6 760
Industry	1 516	574	383	352	352	348	352	351
Transport	3 136	2 334	2 147	2 159	2 175	2 121	2 119	2 100
Residential		1 220	1 385	1 412	1 445	1 411	1 495	1 390
Commerce & Public Services		2 440	2 777	2 809	2 866	2 865	2 902	2 918
Others	2 037	128						
Coal, Coal Products								
Primary Energy Supply	6 008	6 870	6 225	7 403	7 288	7 769	8 140	6 694
Indigenous Production								
Import	5 362	6 826	6 503	7 891	7 779	8 171	8 685	7 044
Export	- 1					- 1		
Transformation Sector		-6 869	-6 224	-7 403	-7 288	-7 769	-8 140	-6 694
Power Generation	-5 996	-6 869	-6 224	-7 403	-7 288	-7 769	-8 140	-6 694
Final Energy Consumption	12	1						
Industry		1						
Transport								
Residential								
Commerce & Public Services								
Others	12							
Crude Oil								
Primary Energy Supply								
Indigenous Production								
Import								
Export								
Transformation Sector								
Petroleum Refineries			- 6	- 26	- 5	- 5		
Petroleum Products								
Primary Energy Supply	4 790	4 552	3 202	3 137	3 234	3 189	3 126	3 433
Import	7 556	15 405	21 530	19 113	17 851	17 995	16 506	20 122
Export	-1 967	-1 377	- 498	- 628	- 810	- 621	- 501	- 701
Transformation Sector		- 756	- 348	- 325	- 518	- 389	- 323	- 328
Power Generation	- 126	- 38	- 37	- 37	- 190	- 44	- 50	- 62
Petroleum Refineries			6	26	5	6		
Final Energy Consumption	4 304	2 665	2 397	2 408	2 418	2 366	2 354	2 334
Industry	908	204	97	102	102	101	102	104
Transport	3 136	2 210	2 086	2 097	2 110	2 055	2 045	2 024
Residential		33	81	89	91	92	90	62
Commerce & Public Services		89	134	120	114	118	118	145
Others	260	128						
Natural Gas								
Primary Energy Supply		2 033	3 145	2 547	2 374	2 307	2 258	2 953
Indigenous Production								
Import		2 033	3 145	2 547	2 374	2 307	2 258	2 953
Export								
Transformation Sector		-1 447	-2 169	-1 572	-1 364	-1 625	-1 984	-2 352
Power Generation		-2 033	-2 486	-1 886	-1 697	-1 625	-2 258	-2 352
Final Energy Consumption	324	586	659	672	677	682	689	601
Industry	13	19	22	22	26	29	29	27
Transport								
Residential		332	365	370	370	365	368	316
Commerce & Public Services		235	272	280	282	289	292	258
Others	311							
Electricity								
Power Generation	2 488	3 307	3 297	3 360	3 336	3 371	3 436	3 266
Thermal	2 488	3 266	3 293	3 356	3 323	3 357	3 423	3 253
Hydro								
Nuclear								
Others		41	4	4	13	13	13	13
Final Energy Consumption	2 049	3 444	3 604	3 621	3 704	3 663	3 778	3 781
Industry	596	350	265	228	224	218	220	221
Transport		123	61	62	65	67	69	71
Residential		856	940	952	984	954	1 037	1 012
Commerce & Public Services		2 116	2 338	2 379	2 432	2 424	2 451	2 477
Others	1 454							

Major Economic Indicators of Hong Kong, China

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	5.70	6.81	7.02	7.07	7.15	7.19	7.24	7.31
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	104.1	188.6	228.6	239.6	243.7	251.3	258.2	264.4
Real Term (Billions of 2010 Price and 2010 PPP)	150.8	273.2	331.1	347.0	352.9	363.9	373.9	382.9
Nominal (Billions of Current USD)	76.9	181.6	228.6	248.5	262.6	275.7	291.5	309.4
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	18 251	27 689	32 550	33 889	34 065	34 961	35 658	36 192
Real Term (2010 Price and 2010 PPP)	26 429	40 095	47 135	49 073	49 328	50 625	51 634	52 408
Nominal (Current USD)	13 486	26 650	32 550	35 142	36 708	38 358	40 247	42 351
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	599	1 412	1 776	1 934	2 037	2 138	2 260	2 398
Household Final Consumption Expenditure	344	812	1 090	1 224	1 315	1 413	1 503	1 593
General Government Final Consumption Expenditure	41	131	157	169	185	199	214	231
Gross Fixed Capital Formation	157	302	387	455	517	516	531	537
Stock Change	6	- 5	38	12	- 4	- 2	7	- 21
Exports of Goods and Services	703	2 506	3 647	4 117	4 397	4 739	4 816	4 698
Imports of Goods and Services	652	2 333	3 543	4 043	4 374	4 726	4 811	4 641
Real GDP & its Components (Billions of 2013 HKD) *1								
Gross Domestic Product	944	1 711	2 074	2 174	2 211	2 279	2 342	2 398
Household Final Consumption Expenditure	602	998	1 247	1 351	1 407	1 472	1 521	1 593
General Government Final Consumption Expenditure	103	177	199	204	211	217	224	231
Gross Fixed Capital Formation	230	395	460	507	542	555	555	537
Stock Change	10	- 7	49	14	- 3	- 1	8	- 21
Exports of Goods and Services	834	3 067	4 045	4 240	4 376	4 718	4 763	4 698
Imports of Goods and Services	806	2 916	3 923	4 143	4 319	4 676	4 724	4 641
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Industry	N.A.	7.6	6.3	6.6	6.8	6.7	7.0	7.1
Services, etc.	N.A.	89.1	90.5	90.8	90.9	90.5	88.9	88.9
Manufacturing Production (2010=100) *2	126.1	112.0	100.0	100.7	99.9	100.0	99.6	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	82.39	292.12	400.69	455.57	492.91	535.19	524.06	510.53
Imports, c.i.f.	84.73	300.16	441.37	510.85	553.49	621.42	600.61	559.28
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	31.07	3.29	-7.48	-18.91	-27.92	-30.14	0.00
Current Account	N.A.	21.57	16.01	13.81	4.15	4.19	4.06	10.26
Overall Balance	N.A.	0.36	12.19	10.42	19.78	0.49	10.94	0.00
Foreign Exchange Rate (HKD/USD) *1	7.79	7.78	7.77	7.78	7.76	7.76	7.75	7.75
PPP conversion factor, GDP (HKD/International Dollar) *1	6.03	5.69	5.37	5.46	5.55	5.56	5.62	5.76
Price Indices								
GDP Deflator (2013=100) *3	63.5	82.5	85.6	89.0	92.1	93.8	96.5	100.0
Producer Prices (2010=100) *2	89.5	86.3	100.0	108.3	108.4	105.1	103.3	N.A.
Consumer Prices (2010=100) *2	56.9	89.5	100.0	105.3	109.5	114.3	119.4	N.A.
Growth Rate (%) *3								
Real GDP	3.83	7.39	6.77	4.81	1.70	3.10	2.76	2.39
Population	0.32	0.44	0.74	0.67	1.17	0.46	0.75	0.88
Price								
Producer Prices	N.A.	-7.89	6.00	8.35	0.09	-3.10	-1.69	N.A.
Consumer Prices	10.19	0.90	2.34	5.26	4.06	4.35	4.43	N.A.

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: HKD means Hong Kong Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Hong Kong, China in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	
Local Currency Unit		HKD

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite	HKD/tonne	2,406.96	Anthracite			Anthracite		
Other bituminous coal	HKD/tonne	447.41	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil			Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	HKD/kg	4.58	LPG			LPG	HKD/kg	23.47
Naphtha			Naphtha			Naphtha		
Motor Gasoline	HKD/L	4.16	Motor Gasoline			Motor Gasoline (regular)	HKD/L	13.70
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	HKD/L	3.30	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene			Other Kerosene			Other Kerosene		
Gas/Diesel Oil			Gas/Diesel Oil			Gas/Diesel Oil		
Fuel Oil	HKD/L	2.36	Fuel Oil			Fuel Oil		
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	HKD/kg	4.58	Natural Gas			Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial		
						Commercial		
						Residential		
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		
Gas oil, diesel oil and naphtha	HKD/L	3.37				Enviromental diesel oil (road)	HKD/L	10.86

Indonesia

Energy Balance Table of Indonesia

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	271 401		44 906						
Import	1 769		21 573	28 534	16 452		1 031		6 098
Export	-215 120		-17 584	- 477		- 395	- 2	- 79	
International Marine Bunkers									
International Aviation Bunkers									
Stock Changes	-7 003		448	5 134	565		- 70	62	4 787
Total Primary Energy Supply	51 047		49 343	33 191	17 017	- 395	959	- 17	10 884
Transfers			-1 460	2 450					
Total Transformation Sector	-41 215	6	-48 410	44 618	11 158	395	2 759	671	10 076
Main Activity Producer	-41 207			-8 656					-7 747
Autoproducers				1 947					
Gas Processing				1 947					
Petroleum Refineries			-57 108	53 779	11 158	2 847	2 759	671	17 823
Coal Transformation	- 8	6							
Other Transformation			8 698	-2 452		-2 452			
Loss & Own Use				- 78	- 56			- 1	- 19
Discrepancy			527	-2 952					
Total Final Consumption	9 832	6		77 228	28 119		3 718	652	20 941
Total Final Energy Consumption	9 832	6		61 765	28 119		3 718	652	20 941
Industry Sector	9 832	6		3 622				37	2 861
Iron and Steel	235								
Chemical & Petrochemical									
Non-metallic Minerals	4 222								
Other Industries	5 375	6		3 622				37	2 861
Transport Sector				47 328	27 363		3 718		16 235
Domestic Air Transport				3 721	2		3 718		
Road				43 596	27 360				16 235
Rail									
Inland Waterways				12					
Other transport									
Other Sector				10 815	756			614	1 846
Residential				7 856				558	
Commerce and Public Services				640				31	407
Agriculture									
Non-specified Others				2 319	756			25	1 439
Non-energy				15 463					
2014									
Indigenous Production	269 361		47 140						
Import	1 436		19 395	32 489	17 613		842		9 558
Export	-224 600		-16 807	- 902		- 827	- 2	- 54	- 20
International Marine Bunkers									
International Aviation Bunkers									
Stock Changes	-1 403		3 556	403	- 406		68	- 109	921
Total Primary Energy Supply	44 794		53 284	31 990	17 207	- 827	908	- 163	10 460
Transfers			-1 263	3 143					
Total Transformation Sector	-37 085	8	-54 718	45 920	10 765	827	2 718	988	12 583
Main Activity Producer	-37 076			-6 381					-5 278
Autoproducers				2 188					
Gas Processing				2 188					
Petroleum Refineries			-55 924	52 692	10 765	3 405	2 718	988	17 861
Coal Transformation	- 9	8							
Other Transformation			1 205	-2 578		-2 578			
Loss & Own Use				- 82	- 56			- 2	- 23
Discrepancy			2 697	-3 887					
Total Final Consumption	7 709	8		77 083	27 916		3 626	823	23 019
Total Final Energy Consumption	7 709	8		63 485	27 916		3 626	823	23 019
Industry Sector	7 709	8		4 423				47	3 569
Iron and Steel	175								
Chemical & Petrochemical									
Non-metallic Minerals	4 226								
Other Industries	3 307	8		4 423				47	3 569
Transport Sector				47 904	27 117		3 626		17 146
Domestic Air Transport				3 628	1		3 626		
Road				44 263	27 116				17 146
Rail									
Inland Waterways				14					
Other transport									
Other Sector				11 158	799			776	2 304
Residential				7 678				705	
Commerce and Public Services				740				39	508
Agriculture									
Non-specified Others				2 740	799			32	1 796
Non-energy				13 599					

Note: Others Excludes non-commercial biomass supply and consumption.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					67 294	1 182		8 643	51 818			445 243
149	4 804									1		51 876
					-30 761							-263 941
- 300	90											-1 422
- 151	4 894				36 533	1 182		8 643	51 818	1		231 757
	1 947			503								990
877	2 716			15 966	-11 073	-1 182		-8 643	-1 964	20 166		-47 697
- 909					-7 686	-1 182		-8 643	- 175	20 166		-47 383
	1 947				-2 763							- 816
1 786	769			15 966								-3 329
												- 2
					- 624				-1 789			3 833
- 1					-6 584					-2 726		-9 388
	-1 947			-1 005	-1 517					4		-3 939
724	7 611			15 463	17 359				49 853	17 445		171 724
724	7 611				13 163				49 853	17 445		152 064
613	110				12 906				7 222	5 511		39 098
					356							590
					3 542							3 542
					1 099							5 321
613	110				7 909				7 222	5 511		29 646
12					35					18		47 380
												3 721
					35							43 630
12												12
										18		18
99	7 500				223				42 631	11 916		65 585
	7 298				17				42 415	7 627		57 914
	202				206				217	4 290		5 353
99												2 319
				15 463	4 196							19 659
					67 627	1 303		8 634	51 243			445 308
175	4 301									1		53 321
					-30 597							-272 906
- 200	129											2 556
- 25	4 430				37 030	1 303		8 634	51 243	1		228 279
	2 188			955								1 880
855	2 841			14 343	-11 442	-1 303		-8 634	-1 295	19 650		-48 899
-1 103					-8 038	-1 303		-8 634	- 89	19 650		-41 871
	2 188				-2 655							- 467
1 958	653			14 343								-3 232
												- 1
					- 749				-1 205			-3 327
- 2					-6 583					-2 633		-9 298
	-2 188			-1 699	-1 564					61		-2 693
828	7 272			13 599	17 442				49 948	17 080		169 269
828	7 272				13 355				49 948	17 080		151 584
701	105				13 102				7 280	5 668		38 189
					460							635
					3 293							3 293
					1 309							5 535
701	105				8 040				7 280	5 668		28 726
14					28					13		47 945
												3 628
					28							44 290
14												14
										13		13
113	7 166				226				42 668	11 398		65 450
	6 973				17				42 450	7 231		57 376
	193				209				218	4 167		5 334
113												2 740
				13 599	4 086							17 685

Major Energy Indicators of Indonesia

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	53 252	174 495	212 799	219 914	234 040	224 716	228 279	231 757
Indigenous Production	119 434	249 683	351 826	386 224	410 276	451 412	445 308	445 243
Import	9 999	41 760	39 190	41 148	46 494	50 801	53 321	51 876
Export	-75 853	-115 627	-179 938	-217 441	-227 716	-259 606	-272 906	-263 941
Final Energy Consumption	30 500	113 742	150 365	156 839	156 704	150 158	151 584	152 064
Industry	11 767	40 548	61 081	58 737	49 316	39 801	38 189	39 098
Transport	11 205	25 858	37 089	43 948	44 625	48 483	47 945	47 380
Residential		49 597	50 915	49 851	54 321	52 533	57 376	57 914
Commerce & Public Services		1 907	7 401	4 747	4 931	5 380	5 334	5 353
Others	7 529	-4 168	-6 120	- 444	3 511	3 962	2 740	2 319
Coal, Coal Products								
Primary Energy Supply	4 056	23 742	39 525	46 780	48 300	42 377	44 794	51 047
Indigenous Production	5 785	82 754	161 797	207 723	226 909	278 930	269 361	271 401
Import	663	53	32	25	46	359	1 436	1 769
Export	-2 392	-57 745	-122 304	-160 331	-178 782	-209 538	-224 600	-215 120
Transformation Sector	-2 252	-13 959	-20 271	-26 530	-31 060	-36 387	-37 077	-41 209
Power Generation	-2 252	-13 956	-20 233	-26 530	-31 056	-36 374	-37 076	-41 207
Final Energy Consumption	1 110	8 499	19 116	20 239	17 240	5 990	7 717	9 838
Industry	1 110	8 486	19 116	20 239	17 240	5 990	7 717	9 838
Transport								
Residential		13						
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	38 632	49 041	52 904	51 040	50 196	48 361	53 284	49 343
Indigenous Production	70 733	48 137	58 008	51 322	50 986	46 859	47 140	44 906
Import	6 085	20 471	15 455	14 808	15 010	18 782	19 395	21 573
Export	-38 186	-19 567	-20 558	-20 726	-17 633	-17 945	-16 807	-17 584
Transformation Sector	-36 471	-44 642	-49 087	-50 058	-48 349	-47 443	-54 718	-48 410
Petroleum Refineries	-36 471	-44 642	-49 087	-50 058	-48 339	-48 337	-55 924	-57 108
Petroleum Products								
Primary Energy Supply	-8 202	13 873	19 923	30 693	33 897	40 048	31 990	33 191
Import	3 251	21 235	23 702	26 315	31 182	31 660	32 489	28 534
Export	-11 125	-7 363	-5 500	- 606	- 310	- 429	- 902	- 477
Transformation Sector	36 586	37 089	41 329	33 923	43 959	42 642	45 920	44 618
Power Generation	-3 764	-9 259	-8 428	-10 003	-7 113	-6 427	-6 381	-8 656
Petroleum Refineries	38 041	46 348	52 602	48 155	52 504	50 858	52 692	53 779
Final Energy Consumption	23 899	45 952	56 648	60 738	62 383	68 520	63 485	61 765
Industry	6 317	10 444	14 629	9 971	6 609	7 761	4 423	3 622
Transport	11 203	25 852	37 072	43 915	44 597	48 446	47 904	47 328
Residential		9 656	7 162	6 386	6 760	7 332	7 678	7 856
Commerce & Public Services			3 906	910	906	1 020	740	640
Others	6 379		-6 120	- 444	3 511	3 962	2 740	2 319
Natural Gas								
Primary Energy Supply	16 889	37 710	45 062	37 018	37 624	36 926	37 030	36 533
Indigenous Production	41 040	68 663	76 638	72 796	68 615	68 620	67 627	67 294
Import								
Export	-24 151	-30 953	-31 576	-35 778	-30 991	-31 693	-30 597	-30 761
Transformation Sector	-5 616	-11 300	-21 499	-14 416	-11 666	-11 222	-11 442	-11 073
Power Generation	- 249	-3 423	-8 773	-8 414	-7 282	-7 622	-8 038	-7 686
Final Energy Consumption	2 868	6 568	16 139	16 996	13 542	13 609	13 355	13 163
Industry	2 862	6 523	15 976	16 774	9 295	9 388	9 016	8 710
Transport	1	5	10	25	19	26	28	35
Residential		16	19	16	19	17	17	17
Commerce & Public Services		24	135	181	230	201	209	206
Others	5				3 979	3 977	4 086	4 196
Electricity								
Power Generation	3 245	10 952	14 602	15 774	16 861	18 592	19 650	20 166
Thermal	2 216	9 452	12 246	13 820	14 950	15 680	17 394	18 031
Hydro	935	925	1 518	1 068	1 101	1 456	1 303	1 182
Nuclear								
Others	94	575	837	886	810	1 456	954	954
Final Energy Consumption	2 624	9 205	12 675	13 749	14 963	16 129	17 080	17 445
Industry	1 478	3 651	4 385	4 706	5 175	5 537	5 668	5 511
Transport	1		8	8	9	11	13	18
Residential		3 542	5 145	5 600	6 203	6 640	7 231	7 627
Commerce & Public Services		1 655	3 138	3 435	3 575	3 941	4 167	4 290
Others	1 145	357						

Major Economic Indicators of Indonesia

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	181.44	226.71	242.52	245.71	248.88	252.03	255.13	258.16
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	310	571	755	802	850	897	942	988
Real Term (Billions of 2010 Price and 2010 PPP)	822	1 516	2 004	2 128	2 256	2 381	2 500	2 622
Nominal (Billions of Current USD)	106	286	755	893	918	913	891	861
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	1 708	2 520	3 113	3 263	3 415	3 560	3 693	3 828
Real Term (2010 Price and 2010 PPP)	4 532	6 687	8 263	8 659	9 064	9 448	9 801	10 158
Nominal (Current USD)	585	1 261	3 113	3 634	3 688	3 621	3 492	3 336
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	195 597	2774 281	6864 133	7831 726	8615 705	9546 134	10569 705	11531 717
Household Final Consumption Expenditure	106 312	1785 596	3858 822	4340 605	4858 331	5425 017	6039 436	6608 527
General Government Final Consumption Expenditure	17 573	224 981	618 178	709 451	796 848	908 574	996 197	1124 812
Gross Fixed Capital Formation	55 633	655 854	2127 841	2451 914	2819 026	3051 496	3436 924	3782 143
Stock Change	15 071	39 975	129 095	131 329	202 638	178 091	220 231	158 754
Exports of Goods and Services	51 953	945 122	1667 918	2061 886	2118 979	2283 777	2501 425	2439 107
Imports of Goods and Services	50 946	830 083	1537 720	1868 075	2152 937	2359 212	2580 508	2389 633
Real GDP & its Components (Billions of 2010 IDR) *1								
Gross Domestic Product	2816 408	5192 501	6864 133	7287 635	7727 083	8156 498	8564 867	8982 511
Household Final Consumption Expenditure	1510 655	3078 760	3858 822	4054 079	4277 706	4512 035	4750 438	4980 704
General Government Final Consumption Expenditure	260 623	423 592	618 178	652 292	681 819	727 812	736 283	775 427
Gross Fixed Capital Formation	870 587	1513 165	2127 841	2316 359	2527 729	2654 375	2772 471	2911 471
Stock Change	5273 750	-7157 321	129 095	118 207	174 183	124 454	163 583	112 848
Exports of Goods and Services	458 032	1231 826	1667 918	1914 268	1945 064	2026 114	2047 887	2004 416
Imports of Goods and Services	477 155	1183 138	1537 720	1768 822	1910 300	1945 867	1987 114	1859 712
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	19.6	15.3	13.9	13.6	13.5	13.3	13.2	13.0
Industry	42.1	45.8	42.8	42.8	42.6	42.1	41.8	41.0
Services, etc.	36.1	36.9	40.7	41.5	41.8	42.2	42.6	42.8
Manufacturing Production Index (2010=100)	43.2	88.3	100.0	104.1	108.3	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	25.68	87.00	157.78	203.50	190.03	182.55	176.29	150.37
Imports, c.i.f.	21.84	75.72	135.66	177.44	191.69	186.63	178.18	142.69
Balance of Payments (Billions of Current USD) *2								
Trade Balance	5.35	17.61	31.00	33.83	8.68	5.83	6.98	0.00
Current Account	-2.99	0.28	5.14	1.69	-24.42	-29.11	-27.49	0.00
Overall Balance	1.51	-1.98	31.67	15.32	0.49	-7.14	17.16	0.00
Foreign Exchange Rate (IDR/USD) *1	1 843	9 705	9 090	8 770	9 387	10 461	11 865	13 389
PPP conversion factor, GDP (IDR/International Dollar) *1	361	2 014	3 425	3 607	3 674	3 795	3 932	4 047
Price Indices								
GDP Deflator (2010=100) *3	6.9	53.4	100.0	107.5	111.5	117.0	123.4	128.4
Wholesale Prices (2010=100) *2	9.9	59.3	100.0	107.4	112.9	119.6	130.8	N.A.
Consumer Price Index (2010=100) *2	12.7	68.7	100.0	105.4	109.9	116.9	124.4	N.A.
Growth Rate (%) *3								
Real GDP	7.24	5.69	6.22	6.17	6.03	5.56	5.01	4.88
Population	1.80	1.39	1.33	1.31	1.29	1.27	1.23	1.19
Price								
Wholesale Prices	10.05	16.64	4.87	7.43	5.11	5.92	9.35	N.A.
Consumer Price Index	7.81	10.45	5.13	5.36	4.28	6.41	6.39	N.A.

Source *1 : *World Development Indicators*, World Bank
 *2 : *International Financial Statistics*, International Monetary Fund
 *3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"
 : IDR means Rupiah, USD means United States Dollar
 : PPP means Purchasing Power Parity

Energy Prices in Indonesia in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	13,795
Local Currency Unit		IDR

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES		WHOLESALE PRICES		CONSUMER PRICES				
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	USD/tonne	108.09	Other bituminous coal	USD/tonne	60.13	Other bituminous coal	USD/BOE	11.23
Sub-bituminous Coal			Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil			Crude Oil	USD/bbl	49.21	Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG			LPG - 12kg	USD/BOE	0.10
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline			Motor Gasoline (regular)	USD/BOE	90.50
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel	USD/BOE	113.21
Other Kerosene			Other Kerosene			Other Kerosene		
Gas/Diesel Oil			Gas/Diesel Oil			Gas/Diesel Oil	USD/BOE	97.30
Fuel Oil			Fuel Oil			Fuel Oil		
White Spirit SBP			White Spirit SBP			White Spirit SBP	USD/BOE	37.59
Lubricants			Lubricants			Lubricants	USD/BOE	37.59
Bitumen			Bitumen			Bitumen	USD/BOE	37.59
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes	USD/BOE	37.59
Petroleum Coke			Petroleum Coke			Petroleum Coke	USD/BOE	37.59
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial	USD/BOE	135.13
						Commercial	USD/BOE	151.86
						Residential	USD/BOE	98.98
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

Japan

Energy Balance Table of Japan

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	671		517						
Import	116 057	1 909	169 499	45 022	956	21 606	535	1 032	374
Export		- 439		-17 206	-2 678	- 9	-2 869	- 432	-8 219
International Marine Bunkers				-4 230					- 30
International Aviation Bunkers				-6 333			-6 333		
Stock Changes	- 959		- 785	392	- 60	263	- 87	8	47
Total Primary Energy Supply	115 769	1 470	169 231	17 645	-1 783	21 860	-8 755	608	-7 828
Transfers			- 239	241		200			
Total Transformation Sector	-100 204	22 296	-169 063	144 494	41 163	11 808	13 151	12 833	45 409
Main Activity Producer	-54 723	-4 417	-5 223	-9 891				- 7	- 241
Autoproducers	-12 276	-2 606		-11 720		-2 757		- 22	-2 603
Gas Processing				-1 279					
Petroleum Refineries			-163 840	168 447	41 163	14 566	13 151	12 863	48 253
Coal Transformation	-33 205	29 319		-1 064					
Other Transformation									
Loss & Own Use	- 548	-2 929		-10 423		- 44		- 32	- 155
Discrepancy	- 275	-3 022	71	- 259	845	-1 694	63	- 287	101
Total Final Consumption	14 742	17 815		151 697	40 225	32 130	4 459	13 122	37 528
Total Final Energy Consumption	14 742	17 815		148 331	40 225	32 130	4 459	13 122	37 528
Industry Sector	14 742	17 211		51 633	51	32 130		2 520	5 793
Iron and Steel	10 474	16 415		1 515				75	253
Chemical & Petrochemical	198	41		35 274		31 482		203	311
Non-metallic Minerals	3 646	252		1 114				21	241
Other Industries	424	502		13 730	51	648		2 221	4 988
Transport Sector				72 134	40 174		4 459		25 169
Domestic Air Transport				4 459			4 459		
Road				64 936	40 174				23 943
Rail				147					147
Inland Waterways				2 593					1 079
Other transport									
Other Sector		605		24 563				10 602	6 566
Residential		9		13 751				8 818	
Commerce and Public Services		596		7 165				1 231	3 482
Agriculture				2 279				551	1 724
Non-specified Others				1 368				2	1 360
Non-energy				3 366					
2014									
Indigenous Production	750		560						
Import	114 883	2 095	172 618	46 187	1 205	20 349	670	948	486
Export		- 393		-15 717	-2 073	- 10	-2 460	- 548	-7 573
International Marine Bunkers				-3 784					- 79
International Aviation Bunkers				-6 391			-6 391		
Stock Changes	854		- 672	- 413	195	- 412	- 132	216	- 95
Total Primary Energy Supply	116 486	1 701	172 505	19 881	- 674	19 927	-8 314	616	-7 261
Transfers			- 312	271		271			
Total Transformation Sector	-100 584	24 386	-172 444	136 446	39 111	11 115	12 153	13 410	43 341
Main Activity Producer	-53 999	-4 369	-7 226	-12 672				- 11	- 347
Autoproducers	-11 657	-3 024		-10 953		-2 228		- 24	-2 256
Gas Processing				-1 404					
Petroleum Refineries			-165 217	162 618	39 111	13 344	12 153	13 445	45 944
Coal Transformation	-34 928	31 780		-1 143					
Other Transformation									
Loss & Own Use	- 545	-3 096		-10 009		- 30		- 55	- 221
Discrepancy	- 359	-4 650	251	4 789	2 162	-1 539	461	249	1 963
Total Final Consumption	14 997	18 342		151 379	40 600	29 744	4 301	14 220	37 822
Total Final Energy Consumption	14 997	18 342		147 878	40 600	29 744	4 301	14 220	37 822
Industry Sector	14 997	17 756		49 883	54	29 744		2 849	6 036
Iron and Steel	10 565	16 943		1 577				77	292
Chemical & Petrochemical	225	47		33 533		29 653		213	236
Non-metallic Minerals	3 716	277		1 150				19	265
Other Industries	492	490		13 623	54	91		2 540	5 243
Transport Sector				72 270	40 546		4 301		25 035
Domestic Air Transport				4 302	1		4 301		
Road				65 136	40 545				23 675
Rail				205					205
Inland Waterways				2 626					1 154
Other transport									
Other Sector		585		25 725				11 371	6 750
Residential		9		14 557				9 411	
Commerce and Public Services		577		7 347				1 358	3 542
Agriculture				2 400				598	1 798
Non-specified Others				1 421				4	1 410
Non-energy				3 500					

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					2 409	7 207	1 162	6 169	6 270			24 405
4 167	12 249			4 105	103 544							436 030
-1 859	- 229			- 911								-17 645
-4 183				- 17								-4 230
												-6 333
73	163			- 15	- 797							-2 149
-1 802	12 183			3 162	105 156	7 207	1 162	6 169	6 270			430 078
		41										2
4 323	3 417	7 349		5 040	-71 909	-7 207	-1 162	-5 726	-9 410	90 688	761	-106 442
-9 435	- 208				-69 322	-6 523	-1 162	-2 094	-1 538	75 881	591	-78 421
-4 124	- 150	-1 855		- 208	-3 928	- 684		-3 632	-7 872	14 808	170	-27 740
	-1 196	- 83			1 341							62
17 883	4 970	9 287		6 312								4 607
				-1 064								-4 950
- 602	-1 054	-7 156		-1 380	-4 395					-7 335		-25 630
541	497	- 234		- 92	1 236				4 856	-1 301	- 75	1 231
2 460	15 043			6 730	30 089			443	1 716	82 053	686	299 240
2 460	15 043			3 364	30 089			443	1 716	82 053	686	295 874
												133 459
937	6 839			3 364	15 228				1 694	32 952		36 617
182	296			709	1 921					6 293		43 542
27	2 774			478	3 013					5 017		7 356
203	25			624	775					1 569		45 944
526	3 744			1 554	9 520				1 694	20 074		74 079
1 514	819				77					1 867		4 459
												64 936
	819											2 014
										1 867		2 593
1 514												77
					77							88 336
10	7 386				14 783			443	22	47 234	686	46 139
	4 933				8 512			253	22	23 565	27	38 115
	2 452				6 271			117		23 380	586	2 714
4								73		289	73	1 368
6												3 366
				3 366								3 366
					2 699	6 800		5 184	6 330			22 321
5 174	13 349			4 006	101 687							437 469
-1 877	- 269			- 907								-16 110
-3 680				- 24								-3 784
												-6 391
- 77	- 83			- 25	3							- 229
- 459	12 997			3 050	104 389	6 800		5 184	6 330			433 276
												- 41
3 113	2 854	6 398		4 950	-71 056	-6 800	-4 868	-9 314	92 854	775		-110 605
-11 854	- 460				-71 523	-6 105	-2 220	- 966	69 312	599		-89 170
-4 353	- 151	-1 743		- 197	-3 734	- 695	-2 648	-8 348	23 542	176		-17 341
	-1 325	- 80			4 201							2 796
19 320	4 790	8 221		6 290								-2 600
				-1 143								-4 291
- 613	- 902	-6 698		-1 490	-4 466					-9 868		-27 984
512	555	300		126	1 378				4 906	96	- 74	6 337
2 553	15 504			6 636	30 244			316	1 922	83 083	701	300 984
2 553	15 504			3 135	30 244			316	1 922	83 083	701	297 484
1 071	6 993			3 135	15 538				1 898	33 664		133 737
180	284			743	1 962					6 687		37 734
32	2 972			427	3 105					4 914		41 823
201	30			635	799					1 665		7 607
658	3 708			1 329	9 671				1 898	20 398		46 572
1 472	917				82					1 847		74 199
												4 302
	917											65 136
										1 847		2 052
1 472												2 626
					82							82
10	7 593				14 624			316	24	47 572	701	89 548
	5 146				8 435			296	24	23 832	27	47 180
	2 447				6 188			20		23 447	598	38 177
4										294	76	2 770
7												1 421
				3 500								3 500

Major Energy Indicators of Japan

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	434 637	521 229	493 206	463 514	450 442	456 082	433 276	430 078
Indigenous Production	74 691	97 411	97 960	63 725	25 420	24 426	22 321	24 405
Import	376 441	442 858	424 340	425 776	449 822	447 833	437 469	436 030
Export	-5 030	-9 745	-17 727	-16 228	-13 810	-18 800	-16 110	-17 645
Final Energy Consumption	297 463	347 034	319 385	308 891	307 815	303 031	297 484	295 874
Industry	148 673	157 139	144 823	140 076	137 806	134 871	133 737	133 459
Transport	70 924	87 644	80 991	78 269	78 793	75 945	74 199	74 079
Residential	40 788	53 007	51 495	50 482	50 942	48 670	47 180	46 139
Commerce & Public Services	34 199	45 760	41 083	38 870	38 892	38 901	38 177	38 115
Others	2 880	3 484	993	1 194	1 382	4 644	4 190	4 082
Coal, Coal Products								
Primary Energy Supply	75 664	112 853	112 507	107 191	111 867	117 673	118 188	117 238
Indigenous Production	5 893	567	467	650	675	676	750	671
Import	70 045	112 760	112 726	106 767	112 743	117 766	116 977	117 965
Export	-1 039	-1 099	- 533	- 483	- 988	- 893	- 393	- 439
Transformation Sector	-30 445	-69 908	-70 180	-65 311	-69 023	-75 497	-76 198	-77 907
Power Generation	-24 918	-66 414	-66 551	-62 604	-66 514	-72 372	-73 050	-74 021
Final Energy Consumption	39 591	35 015	33 620	33 142	33 310	34 854	33 339	32 557
Industry	38 825	34 084	33 013	32 578	32 715	34 260	32 754	31 952
Transport								
Residential	83	19	12	11	14	13	9	9
Commerce & Public Services	683	911	595	552	581	580	577	596
Others								
Crude Oil								
Primary Energy Supply	200 318	214 674	185 437	179 766	184 275	183 735	172 505	169 231
Indigenous Production	555	794	757	722	689	598	560	517
Import	200 268	212 130	185 869	178 607	183 458	181 883	172 618	169 499
Export								
Transformation Sector	-195 130	-213 869	-185 029	-178 574	-183 884	-182 902	-172 444	-169 063
Petroleum Refineries	-176 529	-207 953	-181 505	-171 020	-171 005	-173 287	-165 217	-163 840
Petroleum Products								
Primary Energy Supply	48 733	29 594	16 359	22 003	27 762	31 205	19 881	17 645
Import	64 443	49 898	43 562	48 215	51 123	47 866	46 187	45 022
Export	-3 990	-8 646	-17 194	-15 745	-12 822	-17 907	-15 717	-17 206
Transformation Sector	137 816	177 547	159 778	146 910	137 024	141 528	136 446	144 494
Power Generation	-33 298	-26 491	-19 439	-23 059	-32 590	-27 266	-23 625	-21 611
Petroleum Refineries	174 595	206 425	181 228	172 092	171 831	171 066	162 618	168 447
Final Energy Consumption	175 013	197 351	164 859	157 903	156 382	151 868	147 878	148 331
Industry	70 986	74 207	59 300	55 276	53 286	50 406	49 883	51 633
Transport	69 228	85 728	79 071	76 451	76 963	74 021	72 270	72 134
Residential	16 289	19 935	16 666	16 671	16 864	15 481	14 557	13 751
Commerce & Public Services	15 931	14 416	9 222	8 693	8 271	7 699	7 347	7 165
Others	2 579	3 066	599	813	997	4 261	3 821	3 647
Natural Gas								
Primary Energy Supply	43 525	70 914	85 326	95 301	105 526	102 968	104 389	105 156
Indigenous Production	1 847	2 855	3 159	3 100	3 045	2 651	2 699	2 409
Import	41 684	68 070	82 183	92 188	102 497	100 319	101 687	103 544
Export								
Transformation Sector	-28 871	-46 781	-53 826	-63 589	-72 885	-69 775	-71 056	-71 909
Power Generation	-32 537	-48 578	-54 964	-64 743	-74 132	-73 689	-75 257	-73 249
Final Energy Consumption	14 484	24 403	29 541	30 046	30 922	29 611	30 244	30 089
Industry	4 072	9 718	14 635	15 599	16 147	14 938	15 538	15 228
Transport		65	91	91	93	89	82	77
Residential	7 113	8 522	8 472	8 442	8 652	8 309	8 435	8 512
Commerce & Public Services	3 300	6 099	6 344	5 914	6 030	6 275	6 188	6 271
Others								
Electricity								
Power Generation	72 547	99 187	99 624	95 536	95 641	94 404	92 854	90 688
Thermal	44 315	58 819	57 635	64 965	77 350	76 392	73 987	71 030
Hydro	7 827	7 037	7 827	7 365	6 865	6 627	6 800	7 207
Nuclear	16 839	25 201	25 143	14 012	1 547	1 256	0	383
Others	3 566	8 130	9 020	9 193	9 879	10 129	12 068	12 068
Final Energy Consumption	64 052	86 656	88 170	84 834	84 702	84 196	83 083	82 053
Industry	31 971	36 936	35 878	34 785	34 246	33 820	33 664	32 952
Transport	1 696	1 851	1 829	1 727	1 737	1 835	1 847	1 867
Residential	16 074	23 920	25 886	24 936	25 025	24 516	23 832	23 565
Commerce & Public Services	14 041	23 624	24 261	23 080	23 385	23 719	23 447	23 380
Others	270	325	316	306	309	307	294	289

Major Economic Indicators of Japan

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	123.54	127.77	128.07	127.83	127.63	127.45	127.28	127.14
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	4 683	5 672	5 700	5 694	5 779	5 894	5 914	5 986
Real Term (Billions of 2010 Price and 2010 PPP)	3 682	4 460	4 482	4 477	4 544	4 635	4 650	4 707
Nominal (Billions of Current USD)	3 140	4 755	5 700	6 157	6 203	5 156	4 849	4 383
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	37 906	44 394	44 508	44 539	45 277	46 249	46 466	47 083
Real Term (2010 Price and 2010 PPP)	29 806	34 907	34 996	35 021	35 601	36 366	36 536	37 021
Nominal (Current USD)	25 417	37 218	44 508	48 168	48 603	40 454	38 096	34 474
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	454 645	524 133	500 354	491 409	494 957	503 176	513 698	530 545
Household Final Consumption Expenditure	234 566	291 543	288 956	286 255	290 242	296 673	300 118	300 082
General Government Final Consumption Expenditure	61 804	94 958	97 527	99 205	100 241	101 469	103 561	105 335
Gross Fixed Capital Formation	151 893	128 942	106 724	107 638	110 966	117 382	122 937	124 306
Stock Change	3 296	778	- 161	980	1 164	- 691	- 249	2 536
Exports of Goods and Services	46 782	73 444	75 237	73 343	71 990	80 082	90 135	93 566
Imports of Goods and Services	43 177	65 533	67 929	76 011	79 645	91 740	102 803	95 280
Real GDP & its Components (Billions of 2005 JPY) *1								
Gross Domestic Product	411 057	497 915	500 354	499 776	507 248	517 395	519 132	525 463
Household Final Consumption Expenditure	227 996	281 531	288 956	287 840	293 680	300 636	298 076	296 859
General Government Final Consumption Expenditure	62 806	92 698	97 527	99 412	101 080	102 596	103 145	104 846
Gross Fixed Capital Formation	133 863	126 838	106 724	108 491	112 335	117 876	121 273	121 381
Stock Change			- 161				N.A.	N.A.
Exports of Goods and Services	30 761	64 609	75 237	75 052	74 985	75 556	82 576	85 077
Imports of Goods and Services	40 145	67 235	67 929	71 872	75 760	78 240	84 709	84 817
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	1.7	1.1	1.1	1.1	1.1	1.1	1.0	0.9
Industry	32.0	29.2	28.4	27.6	27.3	27.3	28.0	27.9
Services, etc.	66.4	70.7	70.2	70.9	71.0	70.9	70.3	70.2
Industrial Production Index (2010=100) *2	105.7	106.1	100.0	97.1	97.7	96.9	98.8	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	287.58	594.94	769.77	823.18	798.57	715.10	690.20	624.79
Imports, c.i.f.	235.37	515.87	694.06	855.38	885.84	833.17	812.21	647.98
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	0.11	0.11	0.00	-0.05	-0.09	-0.10	N.A.
Current Account	N.A.	0.17	0.22	0.13	0.06	0.04	0.02	N.A.
Overall Balance	N.A.	0.04	0.01	0.15	-0.03	0.08	-0.02	N.A.
Foreign Exchange Rate (JPY/USD) *1	145	110	88	80	80	98	106	121
PPP conversion factor, GDP (JPY/International Dollar) *1	189	130	112	107	104	101	102	103
Price Indices								
GDP Deflator (2005=100) *3	110.6	105.3	100.0	98.3	97.6	97.3	99.0	101.0
Wholesale Prices (2010=100) *2	107.7	97.2	100.0	101.5	100.6	101.9	105.1	N.A.
Consumer Price Index (2010=100) *2	94.5	100.4	100.0	99.7	99.7	100.0	102.8	N.A.
Growth Rate (%) *3								
Real GDP	5.57	1.66	4.19	-0.12	1.50	2.00	0.34	1.22
Population	0.34	0.01	0.02	-0.19	-0.16	-0.14	-0.13	-0.11
Price								
Wholesale Prices	1.50	1.66	-0.14	1.48	-0.88	1.26	3.19	N.A.
Consumer Price Index	3.03	-0.27	-0.72	-0.28	-0.03	0.36	2.75	N.A.

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: JPY means Yen, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Japan in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	120.38
Local Currency Unit		Yen

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	Yen/tonne	10,553	Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	Yen/tonne	9,095	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil	Yen/kL	37,016	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	Yen/tonne	52,955	LPG	Yen/kg	126.7	LPG	Yen/m ³	774.9
Naphtha	Yen/kL	40,841	Naphtha	Yen/kL	39,771	Naphtha		
Motor Gasoline	Yen/kL	48,321	Motor Gasoline	Yen/kL	114,892	Motor Gasoline (regular)	Yen/L	132
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene	Yen/kL	46,297	Other Kerosene	Yen/kL	59,310	Other Kerosene	Yen/L	84.8
Gas/Diesel Oil	Yen/kL	42,980	Gas/Diesel Oil	Yen/kL	92,247	Gas/Diesel Oil	Yen/L	112
Fuel Oil	Yen/kL	42,972	Fuel Oil	Yen/kL	46,997	Fuel Oil		
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas	Yen/tonne	54,418	Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial		
						Commercial		
						Residential	Yen/kWh	26.15
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

Republic of Korea

Energy Balance Table of Republic of Korea

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	785		658						
Import	80 860	268	142 110	37 602	48	24 045		1	280
Export			- 346	-62 430	-9 906	-5 807	-14 368	- 499	-23 494
International Marine Bunkers				-9 430					-1 304
International Aviation Bunkers				-4 407			-4 407		
Stock Changes	-1 077		-1 426	347	179	170	45	295	- 684
Total Primary Energy Supply	80 568	268	140 997	-38 315	-9 679	18 409	-18 730	- 203	-25 202
Transfers			-3 029	3 506	631	1 790	146	317	229
Total Transformation Sector	-75 832	9 321	-138 155	130 784	18 890	19 617	20 334	2 537	45 790
Main Activity Producer	-47 280	-1 975		-2 246				- 117	- 96
Autoproducers	-4 811	-2 296		-1 994		-1 477			
Gas Processing				- 88					- 1
Petroleum Refineries			-147 910	144 507	18 890	30 339	20 334	2 654	45 887
Coal Transformation	-23 741	13 592							
Other Transformation			9 755	-9 395		-9 245			
Loss & Own Use		-3 125	- 1	-7 113				- 2	- 17
Discrepancy	643	- 48	188	1 435	- 280	1 322	- 5	- 418	888
Total Final Consumption	5 379	6 416		90 297	9 562	41 138	1 745	2 231	21 688
Total Final Energy Consumption	5 379	5 864		43 521	9 562		1 745	2 231	21 688
Industry Sector	5 379	5 209		3 482	62		1	92	1 286
Iron and Steel	2 131	4 941		100					5
Chemical & Petrochemical	111			545	12			18	40
Non-metallic Minerals	2 739			516				5	130
Other Industries	398	268		2 321	50		1	69	1 111
Transport Sector				31 637	9 112		1 224	8	17 262
Domestic Air Transport				1 228			1 224		3
Road				30 074	9 112			7	16 978
Rail				113					113
Inland Waterways				219					167
Other transport				3				1	1
Other Sector		655		8 402	388		520	2 131	3 140
Residential		655		3 056	21			1 534	787
Commerce and Public Services				2 554	203		33	354	531
Agriculture				499	35			90	346
Non-specified Others				2 293	129		487	153	1 476
Non-energy		552		46 776		41 138			
2014									
Indigenous Production	778		783						
Import	79 244	279	128 438	39 906	1	24 971		13	846
Export			- 143	-58 882	-9 139	-4 291	-12 570	- 584	-23 753
International Marine Bunkers				-8 474					- 900
International Aviation Bunkers				-4 286	- 1		-4 285		
Stock Changes	1 398		- 582	- 421	- 262	- 153	129	- 276	530
Total Primary Energy Supply	81 419	279	128 494	-32 159	-9 401	20 527	-16 727	- 846	-23 278
Transfers			-2 135	2 288	795	1 637	120	354	635
Total Transformation Sector	-73 855	8 523	-125 468	120 579	17 430	16 735	18 121	2 294	42 723
Main Activity Producer	-46 367	-2 025		-2 029				- 93	- 96
Autoproducers	-3 433	-2 342		-1 647		-1 110			- 27
Gas Processing				- 73					- 1
Petroleum Refineries			-134 466	133 001	17 430	26 474	18 121	2 387	42 847
Coal Transformation	-24 055	12 890							
Other Transformation			8 998	-8 673		-8 629			
Loss & Own Use		-3 174		-6 469				- 1	- 19
Discrepancy	-2 426	116	- 891	2 290	352	1 303	4	310	35
Total Final Consumption	5 138	5 744		86 529	9 176	40 202	1 518	2 111	20 096
Total Final Energy Consumption	5 138	5 173		40 974	9 176		1 518	2 111	20 096
Industry Sector	5 138	4 448		3 457				144	1 330
Iron and Steel	1 876	4 169		94					6
Chemical & Petrochemical	146			559				22	46
Non-metallic Minerals	2 860			444				4	125
Other Industries	256	279		2 360				118	1 153
Transport Sector				30 107	9 174		1 020	2	15 830
Domestic Air Transport				1 028			1 020		6
Road				28 821	9 174			2	15 622
Rail				124					124
Inland Waterways				132					77
Other transport				2					1
Other Sector		725		7 410	2		498	1 965	2 936
Residential		725		2 839				1 365	566
Commerce and Public Services				1 892	1		34	383	450
Agriculture				748				106	615
Non-specified Others				1 931	1		464	111	1 305
Non-energy		571		45 555		40 202			

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					169	185	42 938	643	5 850		64	51 292
7 206	6 004			18	38 933				10			299 783
-1 604	-122			-6 630								-62 776
-8 126												-9 430
												-4 407
-245	338			249	234				16			-1 906
-2 769	6 221			-6 362	39 335	185	42 938	643	5 876		64	272 559
-860	751	255		247					-418			59
6 547	2 405	5 169		9 495	-19 167	-185	-42 938	-480	-1 365	47 235	4 798	-85 984
-2 033					-18 292	-185	-42 938	-437	-402	44 666	1 594	-67 495
				-517	-875			-43	-963	2 558	3 237	-5 187
	-87											-88
8 580	2 492	5 169		10 162								-3 403
												-10 149
				-150						11	-33	338
-1 323	-149	-5 424		-198	-68					-4 697	-145	-15 149
152	-550			326	398			1	392	59	-355	2 713
1 747	8 678			3 508	20 498			164	4 485	42 597	4 362	174 198
1 747	6 497			51	20 498			164	4 485	42 597	4 362	126 870
1 281	709			51	7 411			5	2 510	22 563	2 570	49 129
19	76				1 528				7	4 670	5	13 382
475					1 445				280	4 212	1 651	8 244
325	10			46	519				843	1 058	2	5 677
462	623			5	3 919			5	1 380	12 623	912	21 826
59	3 972				1 164				418	191		33 410
1												1 228
7	3 970				1 164				418			31 656
										191		304
50	2											219
1												3
407	1 816				11 923			159	1 557	19 843	1 792	44 331
53	661				8 169			35	106	5 487	1 549	19 057
303	1 130				3 751			102	1 385	13 096	243	21 131
26	2				3			22	66	1 002		1 592
25	23									258		2 551
	2 181			3 457								47 328
					289	237	40 761	497	5 619		90	49 054
7 976	6 088			11	44 003							291 870
-2 059	-130			-6 356								-59 025
-7 574												-8 474
												-4 286
-9	-198			-182	-1 166				-16			-787
-1 667	5 760			-6 527	43 125	237	40 761	497	5 602		90	268 345
-1 626	714	295		-636								153
6 435	2 319	4 684		9 838	-20 134	-237	-40 761	-361	-1 512	46 944	4 852	-81 430
-1 840					-19 382	-237	-40 761	-324	-290	44 109	1 584	-65 722
				-510	-752			-37	-1 222	2 830	3 283	-3 320
	-72											-73
8 275	2 391	4 684		10 392								-1 465
												-11 165
				-44						5	-15	315
-1 218	-100	-4 979		-152	-144					-4 557	-180	-14 524
-354	-382			1 022	-634				17	-519	-205	-2 252
1 570	8 311			3 545	22 213			136	4 107	41 868	4 557	170 292
1 570	6 420			83	22 213			136	4 107	41 868	4 557	124 166
1 218	682			83	8 825				2 533	22 326	2 511	49 238
19	69				1 592				13	4 767	28	12 539
491					2 745				69	4 104	1 611	9 234
221	11			83	565				802	1 003	7	5 681
487	602				3 923				1 649	12 452	865	21 784
65	4 016				1 212				374	172		31 865
2												1 028
7	4 016				1 212				374			30 407
										172		296
55												132
1												2
287	1 722				12 176			136	1 200	19 370	2 046	43 063
59	849				8 318			30	23	5 412	1 729	19 076
176	848				3 855			88	1 173	12 792	317	20 117
25	2				3			18	4	927		1 700
27	23									239		2 170
	1 891			3 462								46 126

Major Energy Indicators of Republic of Korea

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	92 915	210 286	250 005	260 471	263 438	263 781	268 345	272 559
Indigenous Production	22 625	42 981	44 936	46 994	46 213	43 554	49 054	51 292
Import	73 942	211 293	266 843	282 250	287 423	290 978	291 870	299 783
Export	-3 794	-35 740	-45 795	-54 886	-58 818	-56 866	-59 025	-62 776
Final Energy Consumption	58 181	110 080	119 325	121 421	122 302	124 032	124 166	126 870
Industry	19 261	39 058	44 974	47 649	47 329	47 683	49 238	49 129
Transport	14 572	29 185	29 945	29 456	30 275	31 376	31 865	33 410
Residential	12 941	18 408	19 859	20 142	20 289	20 286	19 076	19 057
Commerce & Public Services	8 694	19 224	20 501	20 160	20 261	20 405	20 117	21 131
Others	2 713	4 205	4 046	4 014	4 148	4 282	3 870	4 143
Coal, Coal Products								
Primary Energy Supply	25 383	49 657	73 454	80 264	77 079	77 880	81 698	80 836
Indigenous Production	7 576	1 261	959	959	932	808	778	785
Import	15 725	46 930	72 948	79 484	76 078	77 379	79 523	81 128
Export								
Transformation Sector	-13 183	-44 398	-61 117	-66 371	-65 748	-64 092	-65 332	-66 511
Power Generation	-5 975	-36 331	-52 433	-55 574	-54 600	-53 572	-54 167	-56 362
Final Energy Consumption	11 719	7 748	9 138	9 737	9 133	8 976	10 311	11 243
Industry	3 054	6 794	8 283	8 899	8 317	8 123	9 586	10 588
Transport								
Residential	8 638	954	855	838	816	853	725	655
Commerce & Public Services	27							
Others								
Crude Oil								
Primary Energy Supply	43 240	118 805	120 993	128 026	130 505	126 880	128 494	140 997
Indigenous Production		534	698	707	718	605	783	658
Import	42 672	117 338	121 571	127 916	131 070	125 523	128 438	142 110
Export		- 3	- 481	- 584	- 356	- 286	- 143	- 346
Transformation Sector	-42 522	-118 650	-117 960	-125 340	-128 676	-123 971	-125 468	-138 155
Petroleum Refineries	-42 522	-123 967	-124 969	-133 521	-136 793	-131 812	-134 466	-147 910
Petroleum Products								
Primary Energy Supply	6 496	-26 316	-25 879	-34 317	-33 284	-30 312	-32 159	-38 315
Import	12 842	20 895	33 027	32 960	37 435	40 423	39 906	37 602
Export	-3 794	-35 737	-45 314	-54 302	-58 462	-56 580	-58 882	-62 430
Transformation Sector	39 028	111 117	111 104	118 468	120 812	117 431	120 579	130 784
Power Generation	-4 511	-6 469	-5 078	-4 435	-5 820	-5 295	-3 676	-4 240
Petroleum Refineries	43 539	123 422	123 460	131 479	135 192	130 453	133 001	144 507
Final Energy Consumption	36 935	49 268	43 905	42 305	41 431	41 285	40 974	43 521
Industry	10 881	7 969	5 896	5 187	4 143	3 477	3 457	3 482
Transport	14 485	28 626	28 401	27 875	28 594	29 631	30 107	31 637
Residential	1 916	3 181	2 982	3 205	2 902	2 952	2 839	3 056
Commerce & Public Services	7 065	5 915	3 447	2 965	2 727	2 138	1 892	2 554
Others	2 588	3 577	3 179	3 073	3 065	3 087	2 679	2 792
Natural Gas								
Primary Energy Supply	2 724	27 368	38 625	41 576	44 966	47 604	43 125	39 335
Indigenous Production		440	485	406	391	415	289	169
Import	2 680	26 104	39 279	41 890	42 840	47 653	44 003	38 933
Export								
Transformation Sector	-2 037	-11 073	-17 636	-19 528	-21 653	-22 724	-20 134	-19 167
Power Generation	-2 037	-11 073	-18 000	-20 031	-22 212	-22 770	-20 134	-19 167
Final Energy Consumption	673	15 982	20 582	21 570	22 898	24 135	22 213	20 498
Industry	73	4 167	7 092	8 273	9 290	9 803	8 825	7 411
Transport		324	1 023	1 074	1 149	1 204	1 212	1 164
Residential	464	8 371	8 938	8 904	9 103	8 981	8 318	8 169
Commerce & Public Services	136	3 095	3 525	3 315	3 351	4 144	3 855	3 751
Others		25	4	4	5	3	3	3
Electricity								
Power Generation	9 062	33 354	42 706	44 711	45 651	46 246	46 939	47 224
Thermal	3 967	20 055	28 568	29 735	30 921	32 283	31 378	30 996
Hydro	547	316	317	395	341	369	237	185
Nuclear	4 548	12 623	12 779	13 306	12 928	11 935	13 451	14 170
Others		360	1 042	1 275	1 461	1 659	1 873	1 873
Final Energy Consumption	8 115	30 756	38 644	40 471	41 403	41 894	41 868	42 597
Industry	4 969	15 820	19 619	21 159	21 556	21 991	22 326	22 563
Transport	87	224	188	193	194	186	172	191
Residential	1 525	4 375	5 271	5 320	5 495	5 503	5 412	5 487
Commerce & Public Services	1 409	9 734	12 703	12 890	13 119	13 090	12 792	13 096
Others	125	603	863	909	1 039	1 124	1 166	1 260

Major Economic Indicators of Republic of Korea

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	42.87	48.18	49.55	49.94	50.20	50.43	50.75	51.01
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	363	895	1 094	1 135	1 161	1 194	1 234	1 269
Real Term (Billions of 2010 Price and 2010 PPP)	499	1 231	1 505	1 561	1 596	1 643	1 698	1 745
Nominal (Billions of Current USD)	279	898	1 094	1 202	1 223	1 306	1 411	1 383
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	8 465	18 568	22 087	22 725	23 124	23 685	24 324	24 871
Real Term (2010 Price and 2010 PPP)	11 642	25 538	30 377	31 254	31 803	32 575	33 453	34 206
Nominal (Current USD)	6 516	18 640	22 087	24 080	24 359	25 890	27 811	27 105
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	197 712	919 797	1265 308	1332 681	1377 457	1429 445	1486 079	1564 124
Household Final Consumption Expenditure	98 050	480 170	636 713	679 142	707 614	727 800	748 201	771 239
General Government Final Consumption Expenditure	22 252	122 175	183 109	194 381	204 324	214 467	224 724	234 766
Gross Fixed Capital Formation	74 594	283 859	385 924	403 045	407 307	418 289	433 266	458 420
Stock Change	3 732	11 976	19 264	36 191	19 722	-2 288	1 813	-6 105
Exports of Goods and Services	50 100	338 574	625 309	742 936	776 062	770 115	747 134	709 122
Imports of Goods and Services	51 249	316 177	585 010	723 014	737 572	698 937	669 058	600 239
Real GDP & its Components (Billions of 2010 KRW) *1								
Gross Domestic Product	419 518	1034 338	1265 308	1311 893	1341 967	1380 833	1426 972	1466 788
Household Final Consumption Expenditure	253 472	546 548	636 713	655 181	667 781	680 350	692 236	707 493
General Government Final Consumption Expenditure	73 124	140 003	183 109	187 158	193 474	199 783	205 869	212 022
Gross Fixed Capital Formation	166 803	338 300	385 924	389 124	387 240	400 026	413 488	434 381
Stock Change	-42 875	13 002	19 264	30 158	22 400	9 128	17 198	27 734
Exports of Goods and Services	62 785	410 113	625 309	719 943	756 558	788 788	804 797	803 746
Imports of Goods and Services	101 122	413 372	585 010	668 932	685 009	696 725	706 938	721 740
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.7	2.5	2.2	2.1	2.0	2.1	2.1	2.0
Industry	31.5	32.8	34.6	34.9	34.8	34.9	34.9	34.7
Services, etc.	61.9	54.6	53.6	53.3	53.6	53.5	53.5	53.6
Industrial Production Index (2010=100) *2	22.9	71.9	100.0	106.0	107.4	108.2	108.2	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	65.02	284.42	466.38	555.21	547.87	559.63	572.66	526.76
Imports, c.i.f.	69.84	261.24	425.21	524.41	519.59	515.58	525.51	436.50
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-3.28	32.31	47.92	29.09	49.41	82.78	92.69	N.A.
Current Account	-2.40	12.65	28.85	18.66	50.84	81.15	84.37	105.94
Overall Balance	-0.06	13.69	32.57	8.18	12.40	17.31	16.71	N.A.
Foreign Exchange Rate (KRW/USD) *1	708	1 024	1 156	1 108	1 126	1 095	1 053	1 131
PPP conversion factor, GDP (KRW/International Dollar) *1	557	789	841	855	855	869	871	891
Price Indices								
GDP Deflator (2010=100) *3	47.1	88.9	100.0	101.6	102.6	103.5	104.1	106.6
Producer Prices (2010=100)*2	56.3	86.9	100.0	106.7	107.5	105.7	105.2	N.A.
Consumer Price Index (2010=100)*2	44.5	86.1	100.0	104.0	106.3	107.7	109.0	N.A.
Growth Rate (%) *3								
Real GDP	9.81	3.92	6.50	3.68	2.29	2.90	3.34	2.79
Population	0.99	0.21	0.50	0.77	0.53	0.46	0.63	0.53
Price								
Producer Prices	4.18	2.13	3.81	6.71	0.69	-1.60	-0.53	N.A.
Consumer Price Index	8.58	2.75	2.96	4.00	2.19	1.31	1.27	N.A.

Source

*1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: KRW means Won, USD means United States Dollar

: PPP means Purchasing Power Parity

Malaysia

Energy Balance Table of Malaysia

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	1 612		34 018						
Import	16 040		8 387	14 201	7 577	137	553		4 555
Export	- 156		-16 103	-10 315	- 401	-1 370	- 549	- 42	-5 563
International Marine Bunkers			- 346						- 2
International Aviation Bunkers			-2 505			-2 505			
Stock Changes	10		57	394	79	- 412	96	- 4	490
Total Primary Energy Supply	17 506		26 360	1 429	7 254	-1 644	-2 405	- 46	- 520
Transfers			-1 574	1 624		258		44	118
Total Transformation Sector	-15 616		-24 559	24 585	5 027	2 452	2 838	51	10 354
Main Activity Producer	-15 616			- 380					- 279
Autoproducers				- 51					- 51
Gas Processing				211				44	118
Petroleum Refineries			-24 948	24 805	5 027	2 452	2 838	6	10 566
Coal Transformation									
Other Transformation			389						
Loss & Own Use				-1 368		-1 066			
Discrepancy	- 113		- 226	257	513		193	- 44	- 192
Total Final Consumption	1 777			26 527	12 795		626	4	9 760
Total Final Energy Consumption	1 777			25 106	12 795		626	4	9 760
Industry Sector	1 777			2 185	181			4	1 386
Iron and Steel									
Chemical & Petrochemical									
Non-metallic Minerals	1 777								
Other Industries				2 185	181			4	1 386
Transport Sector				20 628	12 545		626		7 452
Domestic Air Transport					626		626		
Road				20 001	12 545				7 452
Rail									
Inland Waterways									
Other transport									
Other Sector				2 294	69				922
Residential				673					
Commerce and Public Services				767					140
Agriculture				190					187
Non-specified Others				664	69				595
Non-energy				1 420					
2014									
Indigenous Production	1 693		31 043						
Import	13 695		9 799	16 064	8 128		381	144	5 922
Export	- 114		-11 702	-10 816	- 36		- 534	- 211	-5 235
International Marine Bunkers			- 241						- 2
International Aviation Bunkers			-2 525				-2 525		
Stock Changes	- 16		- 491	1 400	- 35		386	- 5	262
Total Primary Energy Supply	15 258		28 649	3 882	8 058		-2 292	- 71	946
Transfers			-1 944	1 766				40	108
Total Transformation Sector	-13 639		-26 085	24 058	4 915		2 914	140	9 180
Main Activity Producer	-13 639			- 934					- 621
Autoproducers				- 25					- 25
Gas Processing				516				40	108
Petroleum Refineries			-26 344	24 501	4 915		2 914	100	9 719
Coal Transformation									
Other Transformation			259						
Loss & Own Use				-2 115					
Discrepancy	89		- 620	- 577	- 276		9	- 86	- 79
Total Final Consumption	1 708			27 014	12 697		632	23	10 155
Total Final Energy Consumption	1 708			25 271	12 697		632	23	10 155
Industry Sector	1 708			1 550	273			16	858
Iron and Steel									
Chemical & Petrochemical									
Non-metallic Minerals	1 708								
Other Industries				1 550	273			16	858
Transport Sector				21 210	12 325		632		8 254
Domestic Air Transport					632		632		
Road				20 579	12 325				8 254
Rail									
Inland Waterways									
Other transport									
Other Sector				2 510	99			7	1 043
Residential				647				7	
Commerce and Public Services				877					156
Agriculture				1					
Non-specified Others				986	99				887
Non-energy				1 743					

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					56 477	1 197		23	891			94 219
957	350			71	7 714					1		46 343
-1 408	-272			-711	-31 198				-182			-57 954
-344												-346
												-2 505
-81	161			65					-114			347
-875	239			-575	32 993	1 197		23	595	1		80 104
	1 203											50
1 590	829	172		1 273	-19 789	-1 197		-23	-596	12 911		-24 286
-101					-12 662	-1 197		-23	-91	12 482		-17 489
					-1 646				-116	429		-1 384
	49				-5 480							-5 269
1 691	780	172		1 273								-143
									-389			
-16		-172		-114	-2 103					-1 079		-4 550
-201	-12				-2 046				1	-464		-2 591
498	2 259			584	9 054					11 369		48 727
498	1 423				4 823					11 369		43 076
491	123				4 551					5 215		13 728
												1 777
491	123				4 551					5 215		11 951
4					249					23		20 900
												626
4					249							20 251
										23		23
3	1 300				23					6 131		8 448
	673				1					2 434		3 108
	627				22					3 657		4 446
3										40		230
												664
	837			584	4 231							5 652
					53 190	1 151		20	723			87 821
474	416			600	7 924					2		47 483
-3 028	-346			-1 427	-31 901				-77	-1		-54 612
-239												-241
												-2 525
737	66			-11					-193			700
-2 056	136			-838	29 213	1 151		20	453	1		78 626
	1 346			272								-178
2 407	1 197	208		3 096	-19 691	-1 151		-20	-453	12 682		-24 298
-312					-14 964	-1 151		-20	-108	12 280		-18 536
					-1 541				-85	402		-1 250
	96			272	-1 649							-1 133
2 720	1 101	208		2 824								-1 843
					-1 537				-259			-1 537
-20		-208		-1 888	-1 368					-1 341		-4 824
-46	-49			-50	580					-305		-833
286	2 630			592	8 734					11 036		48 492
286	1 479				4 682					11 036		42 697
285	119				4 411					5 070		12 739
												1 708
285	119				4 411					5 070		11 031
					250					22		21 483
												632
					250							20 829
										22		22
1	1 360				21					5 944		8 475
	640				1					2 345		2 992
	720				20					3 564		4 461
1										36		37
												986
	1 151			592	4 052							5 794

Major Energy Indicators of Malaysia

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	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	20 683	66 328	70 346	77 318	77 346	77 982	78 626	80 104
Indigenous Production	46 437	93 545	83 399	86 567	85 883	86 632	87 821	94 219
Import	9 700	24 083	38 519	41 172	44 775	50 761	47 483	46 343
Export	-35 279	-51 510	-51 694	-48 206	-52 341	-55 179	-54 612	-57 954
Final Energy Consumption	12 305	36 147	39 131	38 342	38 576	41 655	42 697	43 076
Industry	5 297	15 619	14 281	13 368	15 310	13 133	12 739	13 728
Transport	5 386	15 293	16 826	17 065	15 146	20 072	21 483	20 900
Residential	733	2 183	2 655	2 771	2 841	2 997	2 992	3 108
Commerce & Public Services	889	2 951	4 296	4 222	4 225	4 401	4 461	4 446
Others		101	1 074	916	1 053	1 052	1 023	894
Coal, Coal Products								
Primary Energy Supply	1 355	6 822	14 601	14 655	15 796	15 290	15 258	17 506
Indigenous Production	70	430	1 511	1 838	1 860	1 823	1 693	1 612
Import	1 424	6 612	13 073	13 330	14 220	13 900	13 695	16 040
Export	- 28	- 44	- 62	- 141	- 232	- 326	- 114	- 156
Transformation Sector	- 813	-5 541	-12 951	-13 013	-14 138	-13 519	-13 639	-15 616
Power Generation	- 813	-5 541	-12 951	-13 013	-14 138	-13 519	-13 639	-15 616
Final Energy Consumption	513	1 348	1 826	1 759	1 744	1 538	1 708	1 777
Industry	513	1 348	1 826	1 759	1 744	1 538	1 708	1 777
Transport								
Residential								
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	10 024	26 852	25 173	27 068	30 204	29 154	28 649	26 360
Indigenous Production	30 629	37 556	34 653	30 963	31 321	30 176	31 043	34 018
Import	2 244	8 179	8 115	9 322	10 003	9 103	9 799	8 387
Export	-22 949	-18 994	-17 258	-11 524	-12 086	-10 645	-11 702	-16 103
Transformation Sector	-9 980	-24 487	-22 710	-24 777	-27 650	-26 346	-26 085	-24 559
Petroleum Refineries	-9 980	-24 487	-22 710	-24 798	-27 749	-26 509	-26 344	-24 948
Petroleum Products								
Primary Energy Supply	1 954	- 199	2 312	2 095	-3 034	2 834	3 882	1 429
Import	6 031	7 961	10 359	11 580	12 725	19 852	16 064	14 201
Export	-3 913	-8 435	-8 429	-9 421	-13 967	-12 472	-10 816	-10 315
Transformation Sector	7 425	21 872	21 572	22 379	25 501	24 495	24 058	24 585
Power Generation	-2 989	- 573	- 540	-2 084	-1 361	-1 102	- 959	- 431
Petroleum Refineries	10 414	21 438	21 207	23 890	26 147	24 938	24 501	24 805
Final Energy Consumption	9 596	22 447	23 746	22 765	21 977	25 160	25 271	25 106
Industry	3 481	5 614	4 176	3 289	4 528	2 702	1 550	2 185
Transport	5 386	15 193	16 562	16 777	14 835	19 787	21 210	20 628
Residential	729	783	712	791	714	735	647	673
Commerce & Public Services		756	1 246	1 019	877	916	877	767
Others		101	1 050	890	1 023	1 020	987	854
Natural Gas								
Primary Energy Supply	7 007	32 354	27 656	32 244	32 948	29 300	29 213	32 993
Indigenous Production	15 395	55 042	46 628	52 381	51 157	52 992	53 190	56 477
Import		1 332	6 971	6 938	7 819	7 887	7 924	7 714
Export	-8 388	-24 020	-25 944	-27 075	-26 029	-31 579	-31 901	-31 198
Transformation Sector	-2 420	-24 423	-18 548	-22 115	-21 683	-18 736	-19 691	-19 789
Power Generation	-1 141	-13 116	-13 578	-12 623	-13 188	-15 015	-16 505	-14 309
Final Energy Consumption	481	5 408	4 566	4 582	4 843	4 372	4 682	4 823
Industry	473	5 286	4 285	4 274	4 530	4 087	4 411	4 551
Transport		95	245	270	291	264	250	249
Residential	4	5	6	6		1	1	1
Commerce & Public Services	4	23	30	31	23	20	20	22
Others								
Electricity								
Power Generation	1 979	8 087	10 292	10 928	11 554	11 896	12 682	12 911
Thermal	1 636	7 570	9 686	9 695	10 228	10 671	11 317	11 500
Hydro	343	517	547	693	796	910	1 151	1 197
Nuclear								
Others			59	540	530	315	213	213
Final Energy Consumption	1 715	6 944	8 993	9 236	10 011	10 585	11 036	11 369
Industry	830	3 371	3 994	4 045	4 509	4 806	5 070	5 215
Transport		5	18	18	21	21	22	23
Residential		1 395	1 937	1 974	2 126	2 261	2 345	2 434
Commerce & Public Services	885	2 172	3 020	3 172	3 325	3 465	3 564	3 657
Others			24	26	30	32	36	40

Major Economic Indicators of Malaysia

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	18.04	25.66	28.11	28.64	29.17	29.71	30.23	30.72
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	81.8	204.9	255.0	268.5	283.2	296.5	314.3	330.0
Real Term (Billions of 2010 Price and 2010 PPP)	186.5	467.0	581.4	612.1	645.7	676.0	716.6	752.2
Nominal (Billions of Current USD)	44.0	143.5	255.0	298.0	314.4	323.3	338.1	296.3
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	4 535	7 984	9 071	9 377	9 709	9 981	10 399	10 740
Real Term (2010 Price and 2010 PPP)	10 338	18 201	20 680	21 378	22 134	22 754	23 706	24 483
Nominal (Current USD)	2 441	5 594	9 071	10 405	10 779	10 882	11 184	9 644
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	119	544	821	912	971	1 019	1 106	1 157
Household Final Consumption Expenditure	62	240	395	437	482	528	580	626
General Government Final Consumption Expenditure	16	62	103	121	134	140	147	152
Gross Fixed Capital Formation	39	121	184	202	246	270	287	303
Stock Change	- 1	1	8	9	4	- 5	- 11	- 13
Exports of Goods and Services	89	614	714	777	770	770	816	820
Imports of Goods and Services	86	494	583	635	666	683	714	732
Real GDP & its Components (Billions of 2005 MYR) *1								
Gross Domestic Product	263	660	821	865	912	955	1 013	1 063
Household Final Consumption Expenditure	120	287	395	422	457	490	525	556
General Government Final Consumption Expenditure	29	79	103	118	124	132	137	143
Gross Fixed Capital Formation	71	141	184	196	233	252	264	274
Stock Change	1	- 1	8	5	4	- 3	- 9	- 2
Exports of Goods and Services	154	641	714	744	731	733	770	775
Imports of Goods and Services	126	493	583	620	638	649	675	684
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	21.6	11.0	10.1	10.2	9.8	9.5	9.2	8.9
Industry	45.7	46.1	37.8	36.7	36.6	36.2	36.2	36.3
Services, etc.	32.7	42.9	52.1	53.0	53.6	54.3	54.6	54.8
Industrial Production Index (2010=100) *2	31.6	100.0	100.0	102.4	106.7	110.4	116.0	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	29.45	141.63	198.61	228.09	227.54	228.33	233.93	199.16
Imports, c.i.f.	29.26	114.32	164.62	187.47	196.39	205.90	208.85	176.01
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.53	32.98	42.30	49.55	40.72	32.49	N.A.	N.A.
Current Account	-0.87	19.98	25.64	32.49	16.32	11.21	14.85	9.07
Overall Balance	0.91	10.17	21.00	41.19	11.18	7.15	N.A.	N.A.
Foreign Exchange Rate (MYR/USD) *1	2.70	3.79	3.22	3.06	3.09	3.15	3.27	3.91
PPP conversion factor, GDP (MYR/International Dollar) *1	0.97	1.28	1.41	1.46	1.45	1.43	1.44	1.42
Price Indices								
GDP Deflator (2005=100) *3	45.2	82.4	100.0	105.4	106.5	106.7	109.3	108.9
Producer Prices (2010=100) *2	50.4	82.4	100.0	109.6	109.7	107.8	109.3	N.A.
Consumer Price Index (2010=100) *2	56.8	87.7	100.0	103.2	104.9	107.1	110.5	N.A.
Growth Rate (%) *3								
Real GDP	9.01	5.33	6.98	5.29	5.47	4.69	6.01	4.97
Population	2.86	1.93	1.84	1.86	1.87	1.84	1.75	1.64
Price								
Producer Prices	0.86	6.86	5.61	9.58	0.08	-1.70	1.37	N.A.
Consumer Price Index	2.62	2.96	1.71	3.20	1.66	2.11	3.14	N.A.

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: MYR means Malaysian Ringgit, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Malaysia in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	RM 4.292 / USD 1.00
Local Currency Unit		RM

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite	RM/tonne	554.88	Anthracite			Anthracite		
Other bituminous coal	RM/tonne	963.15	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	RM/tonne	287.68	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	RM/tonne	693.20	Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil	RM/tonne	1,336.92	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	RM/tonne	2,219.31	LPG			LPG		
Naphtha			Naphtha			Naphtha		
Motor Gasoline	RM/tonne	2,379.60	Motor Gasoline			Motor Gasoline (regular)		
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	RM/tonne	2,204.52	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene	RM/tonne	3,037.73	Other Kerosene			Other Kerosene		
Gas/Diesel Oil	RM/tonne	2,253.96	Gas/Diesel Oil			Gas/Diesel Oil		
Fuel Oil	RM/tonne	1,445.82	Fuel Oil			Fuel Oil		
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants	RM/tonne	4,470.47	Lubricants			Lubricants		
Bitumen	RM/tonne	1,558.67	Bitumen			Bitumen		
Paraffin Waxes	RM/tonne	3,345.17	Paraffin Waxes			Paraffin Waxes		
Petroleum Coke	RM/tonne	4,375.61	Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	RM/tonne	11,266.83	Natural Gas			Natural Gas		
Liquefied Natural Gas	RM/tonne	2,332.46	Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial		
						Commercial		
						Residential		
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

Mexico

Energy Balance Table of Mexico

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	7 986		130 949						
Import	4 821	466	401	34 669	18 587	559	1 140		7 415
Export	- 2		-62 281	-9 728		-2 616			- 343
International Marine Bunkers				- 850					- 775
International Aviation Bunkers				-3 451	- 12		-3 439		
Stock Changes	382		368	556	550		40		- 190
Total Primary Energy Supply	13 188	466	69 437	21 195	19 125	-2 057	-2 258		6 107
Transfers			-5 977	7 035		- 559	- 60	59	- 121
Total Transformation Sector	-10 488	796	-65 754	49 263	16 890	3 201	2 324		13 794
Main Activity Producer	-8 728			-5 987					- 346
Autoproducers	- 13	- 142		-1 620					- 165
Gas Processing				- 769					
Petroleum Refineries			-65 964	57 796	16 890	3 358	2 324		14 305
Coal Transformation	-1 747	938							
Other Transformation			210	- 157		- 157			
Loss & Own Use		- 390		-5 715					- 730
Discrepancy	300	9	2 294	930	- 555	215	- 6		- 71
Total Final Consumption	3 000	881		72 708	35 460	800		59	18 979
Total Final Energy Consumption	3 000	769		67 985	35 460	21		59	18 979
Industry Sector	3 000	769		6 254		21			1 627
Iron and Steel		768		103					22
Chemical & Petrochemical				289		21			143
Non-metallic Minerals	157			2 985					9
Other Industries	2 843	1		2 877					1 453
Transport Sector				50 981	35 460				14 249
Domestic Air Transport				15	15				
Road				49 508	35 445				12 815
Rail				672					672
Inland Waterways				786					762
Other transport									
Other Sector				10 750				59	3 103
Residential				6 020				59	
Commerce and Public Services				1 600					114
Agriculture				3 130					2 989
Non-specified Others									
Non-energy		112		4 723		779			
2014									
Indigenous Production	7 752		144 821						
Import	4 760	334	385	30 102	16 104	817	581		6 703
Export	- 2		-64 097	-9 955		-2 744			- 109
International Marine Bunkers				- 823					- 733
International Aviation Bunkers				-3 245	- 13		-3 232		
Stock Changes	- 191		- 756	149	- 29		42		39
Total Primary Energy Supply	12 318	334	80 352	16 226	16 062	-1 927	-2 610		5 900
Transfers			-6 603	7 786		- 853	- 47	46	- 35
Total Transformation Sector	-10 866	1 118	-73 769	53 395	18 812	3 852	2 595		14 319
Main Activity Producer	-8 655			-7 082					- 318
Autoproducers	- 42	- 120		-1 613					- 187
Gas Processing				- 792					
Petroleum Refineries			-74 083	62 949	18 812	3 919	2 595		14 824
Coal Transformation	-2 169	1 238							
Other Transformation			314	- 67		- 67			
Loss & Own Use		- 457		-5 941					- 740
Discrepancy	161	1	20	1 602	- 154	24	62		74
Total Final Consumption	1 613	996		73 068	34 720	1 096		46	19 518
Total Final Energy Consumption	1 613	857		67 511	34 720	24		46	19 518
Industry Sector	1 613	857		5 751		24			1 487
Iron and Steel		856		90					26
Chemical & Petrochemical				283		24			162
Non-metallic Minerals	147			2 765					10
Other Industries	1 466	1		2 613					1 289
Transport Sector				51 173	34 720				15 170
Domestic Air Transport				15	15				
Road				49 775	34 705				13 799
Rail				630					630
Inland Waterways				753					741
Other transport									
Other Sector				10 587				46	2 861
Residential				6 094				46	
Commerce and Public Services				1 595					106
Agriculture				2 898					2 755
Non-specified Others									
Non-energy		139		5 557		1 072			

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					34 356	2 650	3 017	4 203	8 624			191 785
927	3 941			2 100	30 166					142		70 665
-6 768	-1				-24					-200		-72 235
-74				-1								-850
												-3 451
422	-210			-56	146							1 452
-5 494	3 729			2 043	64 644	2 650	3 017	4 203	8 624	-58		187 366
	5 085		2 631									1 058
6 907	-132	3 668		2 611	-34 097	-2 650	-3 017	-3 986	-1 699	26 758		-44 874
-5 641					-26 525	-2 584	-3 017	-3 399		22 593		-27 647
-414	-120			-921	-8 061	-66		-587	-1 699	4 165		-8 023
	-769				489							-280
12 962	757	3 668		3 532								-8 168
												-809
												53
-1 216		-3 668		-101	-13 365					-5 031		-24 501
341	1 184			-178	-3 250					472		755
538	9 866		2 631	4 375	13 932			217	6 925	22 141		119 804
538	9 828			3 100	13 446			217	6 925	22 141		114 483
514	992			3 100	12 392			11	887	12 039		35 352
41				40	2 863					459		4 193
60	19			46	2 955					511		3 755
77	3			2 896	1 278					940		5 360
336	970			118	5 296			11	887	10 129		22 044
24	1 248				17					98		51 096
												15
	1 248				17							49 525
										98		770
24												786
	7 588				1 037			206	6 038	10 004		28 035
	5 961				776			124	6 038	4 815		17 773
	1 486				261			82		2 045		3 988
	141									865		3 995
										2 279		2 279
	38		2 631	1 275	486							5 321
					37 258	3 345	2 522	3 867	8 738			208 303
711	3 268			1 918	23 622					183		59 386
-7 033	-20			-49	-39					-228		-74 321
-89				-1								-823
												-3 245
129	-17			-15	-335							-1 133
-6 283	3 231			1 853	60 506	3 345	2 522	3 867	8 738	-45		188 163
	5 850		2 825									1 183
7 025	22	3 771		2 999	-31 388	-3 344	-2 522	-3 674	-1 768	25 929		-46 889
-6 764					-24 733	-3 280	-2 522	-3 282		22 210		-27 344
-366	-121			-939	-7 175	-64		-392	-1 768	3 719		-7 455
	-792				520							-272
14 155	935	3 771		3 938								-11 134
												-931
												247
-1 304		-3 771		-126	-13 490					-4 930		-24 818
1 012	952			-368	-1 437	-1				738		1 082
450	10 055		2 825	4 358	14 191			193	6 968	21 692		118 721
450	10 021			2 732	13 547			193	6 968	21 692		112 381
438	1 070			2 732	12 435			10	900	12 241		33 807
43				21	2 884					474		4 304
59	24			14	3 588					594		4 465
62	3			2 690	1 267					890		5 069
274	1 043			7	4 696			10	900	10 283		19 969
12	1 271				17					97		51 287
												15
	1 271				17							49 792
										97		727
12												753
	7 680				1 095			183	6 068	9 354		27 287
	6 048				834			108	6 068	4 637		17 741
	1 489				261			75		1 973		3 904
	143									862		3 760
										1 882		1 882
	34		2 825	1 626	644							6 340

Major Energy Indicators of Mexico

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	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	123 677	180 579	178 525	186 915	191 708	191 900	188 163	187 366
Indigenous Production	195 533	263 492	222 523	223 710	218 510	216 160	208 303	191 785
Import	5 831	31 694	47 979	52 332	56 342	56 283	59 386	70 665
Export	-75 752	-111 296	-88 337	-85 503	-78 951	-76 453	-74 321	-72 235
Final Energy Consumption	74 219	100 071	109 909	113 464	113 787	113 898	112 381	114 483
Industry	25 750	30 829	32 766	35 482	35 122	36 059	33 807	35 352
Transport	28 306	44 235	51 086	51 429	51 694	51 125	51 287	51 096
Residential	15 749	17 681	17 801	17 935	18 023	17 543	17 741	17 773
Commerce & Public Services	1 482	3 413	3 546	3 616	3 701	3 903	3 904	3 988
Others	2 932	3 913	4 710	5 002	5 247	5 268	5 642	6 274
Coal, Coal Products								
Primary Energy Supply	4 127	12 156	13 258	14 547	12 717	12 912	12 652	13 654
Indigenous Production	3 742	7 081	8 005	10 370	7 944	7 677	7 752	7 986
Import	241	4 855	5 191	4 881	4 503	5 007	5 094	5 287
Export	-6	-3	-77	-167	-151	-3	-2	-2
Transformation Sector	-2 608	-9 191	-9 270	-9 377	-9 463	-8 916	-9 748	-9 692
Power Generation	-1 725	-8 394	-8 333	-8 498	-8 611	-8 027	-8 817	-8 883
Final Energy Consumption	938	2 677	3 902	4 840	2 919	3 632	2 470	3 769
Industry	938	2 677	3 902	4 840	2 919	3 632	2 470	3 769
Transport								
Residential								
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	82 375	91 984	77 941	78 337	81 534	82 596	80 352	69 437
Indigenous Production	153 283	197 518	155 255	153 673	152 754	149 894	144 821	130 949
Import	237	333	324	306	374	411	385	401
Export	-70 838	-105 790	-77 691	-76 142	-71 307	-67 271	-64 097	-62 281
Transformation Sector	-74 376	-78 497	-71 731	-70 821	-71 165	-74 629	-73 769	-65 754
Petroleum Refineries	-74 443	-78 579	-71 851	-70 929	-71 270	-74 851	-74 083	-65 964
Petroleum Products								
Primary Energy Supply	-1 585	10 043	16 493	19 424	21 021	16 126	16 226	21 195
Import	4 934	18 814	29 792	32 584	32 388	28 777	30 102	34 669
Export	-4 741	-5 138	-9 666	-9 014	-7 390	-9 042	-9 955	-9 728
Transformation Sector	53 177	53 933	53 163	50 175	50 324	53 272	53 395	49 263
Power Generation	-15 118	-16 187	-10 602	-11 822	-12 362	-12 074	-8 695	-7 607
Petroleum Refineries	68 366	71 244	64 663	62 821	63 553	66 199	62 949	57 796
Final Energy Consumption	44 459	62 294	67 738	68 168	68 648	67 392	67 511	67 985
Industry	7 445	7 324	5 888	5 951	5 919	5 773	5 751	6 254
Transport	28 237	44 125	50 975	51 324	51 579	51 010	51 173	50 981
Residential	6 573	6 882	6 585	6 515	6 589	6 076	6 094	6 020
Commerce & Public Services	540	1 536	1 506	1 502	1 508	1 636	1 595	1 600
Others	1 664	2 427	2 784	2 876	3 053	2 897	2 898	3 130
Natural Gas								
Primary Energy Supply	23 120	46 095	54 222	57 099	59 292	62 154	60 506	64 644
Indigenous Production	22 750	38 448	42 570	42 099	40 759	40 474	37 258	34 356
Import	369	7 682	12 638	14 510	18 890	21 984	23 622	30 166
Export		-211	-787	-69	-7	-30	-39	-24
Transformation Sector	-3 431	-19 342	-28 665	-30 556	-32 168	-30 015	-31 388	-34 097
Power Generation	-3 431	-20 215	-29 304	-31 232	-32 742	-30 581	-31 908	-34 586
Final Energy Consumption	11 635	10 953	12 512	13 056	13 651	14 357	13 547	13 446
Industry	10 825	10 033	11 518	12 120	12 674	13 349	12 435	12 392
Transport		16	9	9	18	18	17	17
Residential	810	731	768	728	744	768	834	776
Commerce & Public Services		173	217	199	215	222	261	261
Others								
Electricity								
Power Generation	9 962	21 566	23 697	26 037	26 421	25 571	25 929	26 758
Thermal	7 250	16 491	18 502	20 732	21 031	20 093	19 103	20 462
Hydro	2 019	2 383	3 193	3 117	2 742	2 408	3 344	2 650
Nuclear	253	929	506	868	754	1 015	832	996
Others	441	1 763	1 497	1 321	1 894	2 056	2 650	2 650
Final Energy Consumption	8 617	16 313	18 550	20 107	21 306	20 766	21 692	22 141
Industry	4 591	9 403	10 554	11 570	12 623	11 816	12 241	12 039
Transport	69	94	102	96	97	97	97	98
Residential	1 754	3 658	4 188	4 452	4 475	4 504	4 637	4 815
Commerce & Public Services	935	1 672	1 780	1 863	1 917	1 978	1 973	2 045
Others	1 268	1 486	1 926	2 126	2 194	2 371	2 744	3 144

Major Economic Indicators of Mexico

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	85.36	108.47	117.32	119.09	120.83	122.54	124.22	125.89
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	620	955	1 051	1 094	1 138	1 153	1 179	1 210
Real Term (Billions of 2010 Price and 2010 PPP)	1 021	1 575	1 732	1 802	1 875	1 900	1 943	1 994
Nominal (Billions of Current USD)	263	866	1 051	1 171	1 187	1 262	1 298	1 151
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	7 258	8 809	8 960	9 183	9 415	9 410	9 493	9 613
Real Term (2010 Price and 2010 PPP)	11 961	14 516	14 765	15 134	15 515	15 507	15 643	15 842
Nominal (Current USD)	3 078	7 987	8 960	9 834	9 821	10 299	10 452	9 143
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	739	9 441	13 282	14 550	15 627	16 118	17 259	18 242
Household Final Consumption Expenditure	514	6 386	8 900	9 643	10 510	11 049	11 725	12 448
General Government Final Consumption Expenditure	62	1 010	1 548	1 684	1 849	1 963	2 109	2 272
Gross Fixed Capital Formation	132	2 007	2 807	3 163	3 489	3 401	3 623	4 101
Stock Change	39	96	123	75	113	91	106	79
Exports of Goods and Services	137	2 508	3 968	4 549	5 101	5 123	5 572	6 410
Imports of Goods and Services	146	2 644	4 127	4 731	5 276	5 265	5 758	6 767
Real GDP & its Components (Billions of 2008 MXN) *1								
Gross Domestic Product	7 236	11 160	12 278	12 774	13 288	13 468	13 773	14 136
Household Final Consumption Expenditure	4 094	7 401	8 104	8 493	8 913	9 104	9 267	9 476
General Government Final Consumption Expenditure	941	1 222	1 387	1 421	1 471	1 486	1 518	1 552
Gross Fixed Capital Formation	1 270	2 341	2 601	2 804	2 938	2 893	2 978	3 105
Stock Change	78	108	112	56	90	74	87	55
Exports of Goods and Services	764	3 106	3 636	3 935	4 165	4 264	4 560	5 030
Imports of Goods and Services	726	3 035	3 671	3 967	4 184	4 292	4 548	4 941
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.0	3.2	3.1	3.0	3.0	3.0	3.1	3.1
Industry	37.6	37.1	34.9	34.7	34.3	33.6	33.8	33.2
Services, etc.	55.7	57.1	59.4	59.8	60.1	60.7	60.5	61.0
Industrial Production Index (2010=100) *2	64.6	97.0	100.0	103.1	106.0	105.6	108.0	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	40.71	214.21	298.31	349.57	370.77	380.02	396.91	380.62
Imports, c.i.f.	43.55	228.24	310.21	361.07	380.48	390.97	411.58	405.28
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.43	-7.66	-2.94	-1.21	0.29	-0.91	-2.57	N.A.
Current Account	-7.45	-8.97	-5.61	-12.85	-15.46	-30.52	-22.45	-28.20
Overall Balance	0.99	6.10	43.26	38.76	35.43	35.14	31.17	N.A.
Foreign Exchange Rate (MXN/USD) *1	2.81	10.90	12.64	12.42	13.17	12.77	13.29	15.85
PPP conversion factor, GDP (MXN/International Dollar) *1	1.43	7.13	7.67	7.67	7.86	7.88	8.00	8.40
Price Indices								
GDP Deflator (2008=100) *3	10.2	84.6	108.2	113.9	117.6	119.7	125.3	129.1
Producer Prices (2010=100) *2	11.9	77.8	100.0	105.2	110.1	111.6	114.6	N.A.
Consumer Price Index (2010=100) *2	11.8	80.5	100.0	103.4	107.7	111.8	116.2	N.A.
Growth Rate (%)								
Real GDP *3	5.07	3.03	5.11	4.04	4.02	1.36	2.27	2.63
Population *3	1.98	1.38	1.57	1.51	1.46	1.41	1.38	1.34
Price *2								
Producer Prices	21.68	4.71	4.21	5.22	4.63	1.37	2.67	N.A.
Consumer Price Index	26.65	3.99	4.16	3.41	4.11	3.81	4.02	N.A.

Source

*1 : *World Development Indicators*, World Bank*2 : *International Financial Statistics*, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

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

: PPP means Purchasing Power Parity

New Zealand

Energy Balance Table of New Zealand

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	1 935		2 159						
Import	220		5 446	2 182	1 129		64		748
Export	- 977		-1 804	- 195					- 21
International Marine Bunkers				- 336					- 58
International Aviation Bunkers				- 841			- 841		
Stock Changes	189		149	8	3		- 7		- 12
Total Primary Energy Supply	1 367		5 951	816	1 132		- 784		656
Transfers			- 215	224	1		- 2	2	
Total Transformation Sector	- 717	95	-5 809	5 852	1 538		1 136		2 188
Main Activity Producer	- 266								
Autoproducers	- 6	- 180							
Gas Processing									
Petroleum Refineries			-5 809	5 852	1 538		1 136		2 188
Coal Transformation	- 445	275							
Other Transformation									
Loss & Own Use	- 22	- 54		- 369					
Discrepancy	- 61	- 1	73	- 310	- 179		- 77	- 2	17
Total Final Consumption	567	40		6 213	2 492		273		2 861
Total Final Energy Consumption	567	40		5 876	2 492		273		2 861
Industry Sector	488	40		419	10				337
Iron and Steel		40							
Chemical & Petrochemical									
Non-metallic Minerals	78								
Other Industries	410			419	10				337
Transport Sector				4 806	2 443		273		2 014
Domestic Air Transport				284	11		273		
Road				4 337	2 432				1 897
Rail				48					48
Inland Waterways				137					69
Other transport									
Other Sector	79			651	39				510
Residential	9			71					2
Commerce and Public Services	23			141	7				103
Agriculture	47			369	30				337
Non-specified Others				70	2				68
Non-energy				337					
2014									
Indigenous Production	2 339		2 079						
Import	236		5 263	2 329	1 170		150		778
Export	-1 246		-1 751	- 278					- 6
International Marine Bunkers				- 288					- 53
International Aviation Bunkers				- 841			- 841		
Stock Changes	69		- 22	25	21		9		7
Total Primary Energy Supply	1 397		5 569	946	1 191		- 682		726
Transfers			- 231	240			- 2	2	- 1
Total Transformation Sector	- 744	92	-5 389	5 426	1 352		1 029		2 030
Main Activity Producer	- 301			- 1					- 1
Autoproducers	- 5	- 174							
Gas Processing									
Petroleum Refineries			-5 389	5 427	1 352		1 029		2 031
Coal Transformation	- 438	266							
Other Transformation									
Loss & Own Use	- 40	- 52		- 356					
Discrepancy	- 38	- 1	51	- 185	- 125		- 85	- 1	51
Total Final Consumption	575	39		6 071	2 418		260	1	2 806
Total Final Energy Consumption	575	39		5 718	2 418		260	1	2 806
Industry Sector	504	39		420	3			1	346
Iron and Steel		39							
Chemical & Petrochemical									
Non-metallic Minerals	83								
Other Industries	421			420	3			1	346
Transport Sector				4 615	2 372		260		1 918
Domestic Air Transport				271	11		260		
Road				4 182	2 361				1 812
Rail				46					46
Inland Waterways				116					60
Other transport									
Other Sector	71			683	43				542
Residential	7			68					2
Commerce and Public Services	25			133	6				100
Agriculture	39			389	34				354
Non-specified Others				93	3				86
Non-energy				353					

unit ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					4 042	2 110		5 082	1 175			16 503
	9			232								7 848
- 130	- 44											- 2 976
- 278												- 336
				24	45							- 841
												391
- 408	- 35			255	4 088	2 110		5 082	1 175			20 589
	224			- 1								9
493		329		168	- 1 213	- 2 110		- 4 898	- 154	3 802		- 5 152
					- 1 174	- 2 109		- 4 854	- 38	3 676		- 4 765
					- 39	- 1		- 44	- 116	126	33	- 227
493		329		168								43
											- 33	- 170
											- 33	- 33
		- 329		- 40	- 226					- 420		- 1 091
- 17	- 7			- 45	43					- 17		- 273
68	182			337	2 692			184	1 021	3 365		14 082
68	182				1 614			184	1 021	3 365		12 667
	72				1 242			97	860	1 195		4 341
					51					128		219
					649					34		683
					36					28		142
	72				506			97	860	1 005		3 297
68	8				1				3	5		4 815
												284
	8				1				3			4 341
												48
68												137
										5		5
	102				371			87	158	2 165		3 511
	69				146			16	153	1 079		1 474
	31				190			54	5	818		1 231
	2				35			17		239		707
										29		99
				337	1 078							1 415
					4 385	2 091		4 891	1 167			16 952
6	1			224					1			7 829
- 206	- 66											- 3 275
- 235												- 288
												- 841
- 15	1			2	8							80
- 450	- 64			225	4 392	2 091		4 891	1 168			20 454
	239			2								9
521		321		173	- 1 252	- 2 091		- 4 707	- 158	3 741		- 5 082
					- 1 214	- 2 090		- 4 665	- 40	3 619		- 4 692
					- 38	- 1		- 42	- 118	122	32	- 224
521		321		173								38
											- 32	- 172
											- 32	- 32
		- 321		- 35	- 231					- 408		- 1 087
- 10	- 3			- 12	101					- 28		- 100
61	172			353	3 010			184	1 010	3 305		14 194
61	172				1 735			184	1 010	3 305		12 566
1	69				1 372			97	848	1 189		4 469
					74					120		233
					770					36		806
					36					35		154
1	69				492			97	848	998		3 276
56	9								4	5		4 624
												271
	9								4			4 186
												46
56												116
										5		5
4	94				363			87	158	2 111		3 473
	66				141			16	153	1 064		1 449
	27				187			54	5	805		1 209
	1				35			17		229		709
4										13		106
				353	1 275							1 628

Major Energy Indicators of New Zealand

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	12 791	16 889	18 341	18 295	19 162	19 283	20 454	20 589
Indigenous Production	11 485	12 824	16 857	16 106	16 006	16 120	16 952	16 503
Import	3 812	7 403	7 200	7 418	7 479	7 916	7 829	7 848
Export	-1 697	-2 487	-4 293	-3 981	-3 730	-3 310	-3 275	-2 976
Final Energy Consumption	9 099	11 984	11 964	11 849	11 860	12 086	12 566	12 667
Industry	3 598	4 088	4 069	3 955	3 868	4 102	4 469	4 341
Transport	2 958	4 541	4 567	4 576	4 539	4 585	4 624	4 815
Residential	1 209	1 447	1 478	1 467	1 464	1 444	1 449	1 474
Commerce & Public Services	800	1 128	1 147	1 119	1 190	1 180	1 209	1 231
Others	534	780	703	732	799	775	815	806
Coal, Coal Products								
Primary Energy Supply	1 185	2 194	1 311	1 436	1 640	1 430	1 397	1 367
Indigenous Production	1 423	3 164	3 138	2 893	2 883	2 740	2 339	1 935
Import	1	562	134	91	1	267	236	220
Export	- 239	-1 667	-1 708	-1 535	-1 582	-1 503	-1 246	- 977
Transformation Sector	- 310	-1 520	- 636	- 704	- 994	- 741	- 652	- 622
Power Generation	- 168	-1 393	- 498	- 534	- 836	- 579	- 480	- 452
Final Energy Consumption	675	575	601	551	563	609	614	607
Industry	542	483	513	441	440	497	543	528
Transport	2	2	1	1				
Residential	87	20	12	17	9	7	7	9
Commerce & Public Services	35	43	32	29	31	33	25	23
Others	9	27	43	63	83	72	39	47
Crude Oil								
Primary Energy Supply	4 374	5 214	5 479	5 662	6 048	5 743	5 569	5 951
Indigenous Production	1 966	1 084	2 746	2 382	2 121	1 856	2 079	2 159
Import	3 293	4 828	5 233	5 370	5 618	5 481	5 263	5 446
Export	- 965	- 636	-2 453	-2 144	-1 839	-1 527	-1 751	-1 804
Transformation Sector	-4 237	-5 170	-5 360	-5 559	-5 793	-5 540	-5 389	-5 809
Petroleum Refineries	-4 879	-5 170	-5 360	-5 559	-5 793	-5 540	-5 389	-5 809
Petroleum Products								
Primary Energy Supply	- 864	905	703	435	429	630	946	816
Import	518	2 013	1 832	1 956	1 858	2 167	2 329	2 182
Export	- 493	- 184	- 132	- 302	- 309	- 280	- 278	- 195
Transformation Sector	4 968	5 424	5 369	5 600	5 808	5 568	5 426	5 852
Power Generation	- 6	- 1			- 1	- 1	- 1	
Petroleum Refineries	4 974	5 425	5 369	5 600	5 809	5 569	5 427	5 852
Final Energy Consumption	3 708	5 677	5 482	5 519	5 518	5 605	5 718	5 876
Industry	284	426	346	331	364	420	420	419
Transport	2 894	4 533	4 556	4 563	4 527	4 576	4 615	4 806
Residential	12	67	69	72	73	74	68	71
Commerce & Public Services	168	150	128	141	121	114	133	141
Others	350	501	383	412	433	421	482	439
Natural Gas								
Primary Energy Supply	3 871	3 227	3 727	3 410	3 838	3 978	4 392	4 088
Indigenous Production	3 871	3 227	3 854	3 480	3 797	4 022	4 385	4 042
Import								
Export								
Transformation Sector	-1 990	-1 724	-1 762	-1 509	-1 529	-1 525	-1 252	-1 213
Power Generation	-1 240	-1 724	-1 762	-1 509	-1 529	-1 525	-1 252	-1 213
Final Energy Consumption	1 497	1 056	1 230	1 176	1 246	1 401	1 735	1 614
Industry	1 228	705	920	897	907	1 071	1 372	1 242
Transport	57		1	1	1	1		1
Residential	75	141	129	123	135	132	141	146
Commerce & Public Services	94	166	148	119	169	164	187	190
Others	43	44	32	36	34	33	35	35
Electricity								
Power Generation	2 774	3 694	3 862	3 826	3 807	3 721	3 741	3 802
Thermal	516	1 333	1 098	980	1 138	1 009	849	891
Hydro	1 994	2 006	2 127	2 160	1 969	1 982	2 091	2 110
Nuclear								
Others	220	296	524	567	579	597	650	650
Final Energy Consumption	2 428	3 270	3 368	3 320	3 259	3 275	3 305	3 365
Industry	963	1 322	1 267	1 264	1 144	1 173	1 189	1 195
Transport	5	6	5	5	5	5	5	5
Residential	877	1 044	1 094	1 081	1 075	1 061	1 064	1 079
Commerce & Public Services	458	703	778	767	803	803	805	818
Others	125	195	224	203	232	233	242	268

Major Economic Indicators of New Zealand

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	3.33	4.13	4.35	4.38	4.41	4.44	4.51	4.60
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	84.0	138.5	146.6	149.9	153.3	157.0	162.4	166.3
Real Term (Billions of 2010 Price and 2010 PPP)	78.0	128.5	136.0	139.1	142.2	145.7	150.7	154.3
Nominal (Billions of Current USD)	45.4	114.7	146.6	168.5	176.2	190.5	200.7	175.6
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	25 238	33 495	33 691	34 194	34 771	35 350	36 006	36 191
Real Term (2010 Price and 2010 PPP)	23 420	31 081	31 264	31 731	32 266	32 803	33 412	33 584
Nominal (Current USD)	13 640	27 751	33 691	38 427	39 970	42 890	44 503	38 202
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	76	163	203	213	217	232	242	252
Household Final Consumption Expenditure	46	95	118	125	129	134	139	144
General Government Final Consumption Expenditure	14	29	40	41	42	43	45	47
Gross Fixed Capital Formation	16	40	40	42	45	49	54	57
Stock Change		1	1	1	1	2	1	1
Exports of Goods and Services	20	46	62	65	63	67	68	70
Imports of Goods and Services	20	48	57	61	61	63	66	68
Real GDP & its Components (Billions of 2005 NZD) *1								
Gross Domestic Product	117	192	203	208	213	218	225	231
Household Final Consumption Expenditure	65	107	118	122	125	129	133	137
General Government Final Consumption Expenditure	24	35	40	40	40	41	42	44
Gross Fixed Capital Formation	20	44	40	42	45	49	52	54
Stock Change		1	1	1	1	2	N.A.	N.A.
Exports of Goods and Services	27	55	62	63	65	65	68	71
Imports of Goods and Services	22	53	57	61	61	66	71	73
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	12.6	10.6	8.6	9.5	9.7	9.3	9.5	9.5
Industry	22.8	20.6	19.1	18.4	18.5	18.4	18.5	18.3
Services, etc.	57.7	61.1	64.4	64.3	64.0	64.5	64.1	64.1
Manufacturing Production Index (2010=100) *2	57.5	102.8	100.0	97.6	97.6	98.6	101.1	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	9.39	21.73	31.40	37.67	37.30	39.44	41.62	34.35
Imports, c.i.f.	9.50	26.22	30.62	37.10	38.25	39.64	42.52	36.55
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	-3.04	2.00	2.21	0.05	1.05	0.96	N.A.
Current Account	N.A.	-8.03	-3.43	-4.82	-6.89	-5.85	-6.37	-5.50
Overall Balance	N.A.	3.34	2.90	5.76	-2.08	-8.59	-1.54	N.A.
Foreign Exchange Rate (NZD/USD) *1	1.68	1.42	1.39	1.27	1.23	1.22	1.21	1.43
PPP conversion factor, GDP (NZD/International Dollar) *1	1.54	1.54	1.50	1.49	1.50	1.45	1.44	1.44
Price Indices								
GDP Deflator (2005=100) *3	65.3	84.8	100.0	102.5	102.2	106.6	107.4	109.1
Industry Input Prices (2010=100) *2	60.6	82.4	100.0	104.0	104.4	106.8	105.0	N.A.
Consumer Price Index (2010=100) *2	64.7	87.0	100.0	104.4	105.4	106.7	107.7	N.A.
Growth Rate (%) *3								
Real GDP	0.15	3.30	1.53	2.27	2.25	2.45	3.40	2.43
Population	0.93	1.14	1.12	0.77	0.55	0.77	1.52	1.91
Price								
Industry Input Prices	4.64	5.37	3.86	3.96	0.43	2.28	-1.69	N.A.
Consumer Price Index	6.10	3.04	2.30	4.43	0.88	1.30	0.91	N.A.

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: NZD means New Zealand Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Papua New Guinea

Energy Balance Table of Papua New Guinea

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production			1 221						
Import			625	1 285	60		81		660
Export			-1 221						
International Marine Bunkers									
International Aviation Bunkers									
Stock Changes			- 11	- 5	- 1	- 38			17
Total Primary Energy Supply			614	1 280	60	- 38	81		677
Transfers				- 1	67	- 182	16	45	58
Total Transformation Sector			- 614	- 26		229	36		161
Main Activity Producer				- 80					
Autoproducers				- 555					- 103
Gas Processing									
Petroleum Refineries			- 614	609		229	36		264
Coal Transformation									
Other Transformation									
Loss & Own Use									
Discrepancy				1					
Total Final Consumption				1 253	127	10	132	45	896
Total Final Energy Consumption				1 253	127	10	132	45	896
Industry Sector				467		10			426
Iron and Steel									
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries				467		10			426
Transport Sector				637	127		132		369
Domestic Air Transport									
Road									
Rail									
Inland Waterways									
Other transport				637	127		132		369
Other Sector				149				45	101
Residential									
Commerce and Public Services									
Agriculture									
Non-specified Others				149				45	101
Non-energy									
2014									
Indigenous Production			819						
Import			1 115	846	33		46	13	333
Export			- 787						
International Marine Bunkers									
International Aviation Bunkers									
Stock Changes			- 68	- 43	2	- 8		2	- 12
Total Primary Energy Supply			1 079	803	35	- 8	46	14	322
Transfers			- 17	18	85	- 259	72	- 70	201
Total Transformation Sector			-1 063	375	3	277		100	314
Main Activity Producer				- 80					
Autoproducers				- 534					- 93
Gas Processing									
Petroleum Refineries			-1 063	989	3	277		100	406
Coal Transformation									
Other Transformation									
Loss & Own Use									
Discrepancy				- 1					
Total Final Consumption				1 194	123	10	118	45	836
Total Final Energy Consumption				1 194	123	10	118	45	836
Industry Sector				435		10			397
Iron and Steel									
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries				435		10			397
Transport Sector				588	123		118		338
Domestic Air Transport									
Road									
Rail									
Inland Waterways									
Other transport				588	123		118		338
Other Sector				171				45	101
Residential									
Commerce and Public Services									
Agriculture									
Non-specified Others				171				45	101
Non-energy									

Note: The above energy balances tables were estimated by the CA.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					8 427	87		363				10 098
464	19											1 910
					-6 939							-8 159
26	- 9											- 16
490	10				1 489	87		363				3 833
				- 5								- 1
- 464	6			5	- 137	- 87		- 363		372		- 856
- 80						- 57				79		- 58
- 452					- 128	- 30		- 363		293		- 784
					- 9							- 9
68	6			5								- 5
					- 756					- 38		- 794
					- 596							- 595
27	16									334		1 587
27	16									334		1 587
18	13									244		711
18	13									244		711
9												637
9												637
	3									89		239
	3									89		239
421	1				1 502	88		363				2 772
					-1 219							1 961
												-2 006
- 28	1											- 112
392	2				283	88		363				2 615
				- 12								1
- 367	14			34	- 147	- 88		- 363		359		- 926
- 80						- 57				81		- 56
- 442					- 147	- 31		- 363		278		- 797
155	14			34								- 73
					- 135					- 44		- 180
												- 1
25	15			23						315		1 509
25	15			23						315		1 509
16	12									228		663
16	12									228		663
8												588
8												588
	3			23						87		258
	3			23						87		258

Major Energy Indicators of Papua New Guinea

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	864	1 797	2 075	2 084	2 178	2 321	2 615	3 833
Indigenous Production	4 611	2 775	1 458	1 464	1 330	1 374	2 772	10 098
Import	796	1 810	1 583	1 550	1 628	1 681	1 961	1 910
Export	-4 512	-2 785	- 886	- 886	- 772	- 781	-2 006	-8 159
Final Energy Consumption	612	1 134	1 249	1 292	1 357	1 434	1 509	1 587
Industry	190	567	591	590	603	640	663	711
Transport	209	347	429	465	507	538	588	637
Residential	34							
Commerce & Public Services								
Others	179	220	229	237	247	257	258	239
Coal, Coal Products								
Primary Energy Supply	1							
Indigenous Production								
Import	1							
Export								
Transformation Sector								
Power Generation								
Final Energy Consumption	1							
Industry								
Transport								
Residential								
Commerce & Public Services								
Others	1							
Crude Oil								
Primary Energy Supply		1 036	961	937	1 069	1 354	1 079	614
Indigenous Production	4 500	2 462	890	890	756	799	819	1 221
Import		917	993	982	1 111	1 274	1 115	625
Export	-4 500	-2 344	- 886	- 886	- 755	- 781	- 787	-1 221
Transformation Sector		- 993	- 966	- 966	-1 063	-1 337	-1 063	- 614
Petroleum Refineries		- 993	- 966	- 966	-1 063	-1 337	-1 063	- 614
Petroleum Products								
Primary Energy Supply	752	449	546	573	535	393	803	1 280
Import	795	893	590	568	517	406	846	1 285
Export	- 12	- 441			- 17			
Transformation Sector		431	427	439	537	726	375	- 26
Power Generation	- 346	- 569	- 516	- 516	- 531	- 583	- 614	- 635
Petroleum Refineries		1 000	943	956	1 068	1 309	989	609
Final Energy Consumption	398	859	969	1 009	1 070	1 133	1 194	1 253
Industry	87	372	385	385	396	420	435	467
Transport	209	347	429	465	507	538	588	637
Residential	24							
Commerce & Public Services								
Others	78	139	154	160	167	175	171	149
Natural Gas								
Primary Energy Supply	72	125	123	128	127	127	283	1 489
Indigenous Production	72	125	123	128	127	127	1 502	8 427
Import								
Export							-1 219	-6 939
Transformation Sector		- 120	- 118	- 123	- 120	- 123	- 147	- 137
Power Generation		- 120	- 118	- 123	- 120	- 123	- 147	- 128
Final Energy Consumption	72							
Industry								
Transport								
Residential								
Commerce & Public Services								
Others	72							
Electricity								
Power Generation	154	296	312	315	324	341	359	372
Thermal	114	210	194	196	203	219	235	249
Hydro	40	74	82	83	85	86	88	87
Nuclear								
Others		11	36	36	36	36	36	36
Final Energy Consumption	142	262	276	279	287	302	315	334
Industry	103	195	201	201	207	220	228	244
Transport								
Residential	11							
Commerce & Public Services								
Others	28	67	75	78	80	82	87	89

Major Economic Indicators of Papua New Guinea

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	4.31	6.31	7.11	7.27	7.43	7.59	7.76	7.92
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	4.4	7.3	9.7	10.8	11.6	12.3	13.3	14.2
Real Term (Billions of 2010 Price and 2010 PPP)	6.5	10.9	14.5	16.1	17.4	18.3	19.9	N.A.
Nominal (Billions of Current USD)	3.2	4.9	9.7	12.9	15.4	15.4	16.9	N.A.
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	1 014	1 152	1 367	1 479	1 564	1 615	1 716	N.A.
Real Term (2010 Price and 2010 PPP)	1 518	1 724	2 045	2 213	2 340	2 417	2 568	N.A.
Nominal (Current USD)	747	771	1 367	1 771	2 071	2 030	2 183	N.A.
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	3	15	26	31	32	35	42	44
Household Final Consumption Expenditure	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Real GDP & its Components (Billions of 1998 PGK) *1								
Gross Domestic Product	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Household Final Consumption Expenditure	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	39.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industry	22.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Services, etc.	40.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industrial Production Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	1.18	3.27	5.74	6.91	6.33	5.95	8.76	8.45
Imports, c.i.f.	1.19	1.73	3.95	4.76	5.33	6.08	4.50	2.90
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.07	1.79	2.22	2.67	1.57	N.A.	N.A.	N.A.
Current Account	-0.08	0.54	-0.91	-0.70	-2.83	N.A.	N.A.	N.A.
Overall Balance	0.14	-0.03	0.16	-0.04	-0.58	N.A.	N.A.	N.A.
Foreign Exchange Rate (PGK/USD) *1	0.96	3.10	2.72	2.37	2.08	2.24	2.46	2.77
PPP conversion factor, GDP (PGK/International Dollar) *1	0.71	1.53	1.82	1.86	1.77	1.78	1.95	0.00
Price Indices								
GDP Deflator (1998=100) *3	59.3	175.0	229.4	239.4	232.7	237.9	264.0	N.A.
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2010=100) *2	21.4	77.1	100.0	104.4	109.2	114.6	120.6	N.A.
Growth Rate (%) *3								
Real GDP	-3.01	6.34	7.67	10.67	8.09	5.54	8.53	6.34
Population	2.55	2.49	2.31	2.27	2.22	2.18	2.15	2.12
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	6.95	1.78	6.01	4.44	4.54	4.96	5.21	N.A.

Source

*1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: PGK means Kina, USD means United States Dollar

: PPP means Purchasing Power Parity

Peru

Energy Balance Table of Peru

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	170		6 394						
Import	283	24	4 333	3 259	208		358		2 673
Export	- 177		- 402	- 2 928	- 1 543		- 627		
International Marine Bunkers									
International Aviation Bunkers									
Stock Changes	508	2	309	377	99		533		220
Total Primary Energy Supply	784	27	10 633	708	- 1 236		264		2 893
Transfers			- 1 800	1 760	1 282		- 66	66	- 940
Total Transformation Sector	- 165		- 8 849	7 970	1 709		644		3 259
Main Activity Producer	- 63			- 122					- 50
Autoproducers	- 102			- 178					- 80
Gas Processing									
Petroleum Refineries			- 8 978	8 269	1 709		644		3 389
Coal Transformation									
Other Transformation			129						
Loss & Own Use			- 3 465	- 3 632	- 1 441				- 404
Discrepancy	80		3 482	3 557	1 469		28		507
Total Final Consumption	699	27	10 363	1 783	1 783		870	66	5 315
Total Final Energy Consumption	699	27	10 058	1 783	1 783		870	66	5 315
Industry Sector	698	27		1 242	23				784
Iron and Steel	97	27							
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries	601			1 242	23				784
Transport Sector				7 363	1 520		870		4 327
Domestic Air Transport				870			870		
Road				6 350	1 520				4 327
Rail				142					
Inland Waterways									
Other transport									
Other Sector	1			1 453	240			66	204
Residential				829					
Commerce and Public Services	1			451	216		66		85
Agriculture				49	23				25
Non-specified Others				124	1				94
Non-energy				305					
2014									
Indigenous Production	147		7 506						
Import	370	9	4 212	2 659	111		159		2 388
Export	- 177	- 24	- 783	- 3 198	- 1 610		- 813		- 1
International Marine Bunkers									
International Aviation Bunkers									
Stock Changes	441	74	- 78	- 291	25		728		- 623
Total Primary Energy Supply	782	59	10 857	- 830	- 1 473		74		1 764
Transfers			- 1 473	1 577	963		- 62	62	- 764
Total Transformation Sector	- 202		- 9 380	9 097	2 149		777		3 833
Main Activity Producer	- 44			- 100					- 33
Autoproducers	- 158			- 205					- 94
Gas Processing									
Petroleum Refineries			- 9 566	9 402	2 149		777		3 960
Coal Transformation									
Other Transformation			186						
Loss & Own Use				- 270	- 18				- 18
Discrepancy	53		- 4	147	39		38		75
Total Final Consumption	633	59	9 721	1 660	1 660		827	62	4 891
Total Final Energy Consumption	633	59	9 396	1 660	1 660		827	62	4 891
Industry Sector	633	59		1 249	22				721
Iron and Steel	88	59							
Chemical & Petrochemical									
Non-metallic Minerals									
Other Industries	545			1 249	22				721
Transport Sector				6 761	1 415		827		3 982
Domestic Air Transport				827			827		
Road				5 798	1 415				3 982
Rail				136					
Inland Waterways									
Other transport									
Other Sector				1 387	224			62	188
Residential				801					
Commerce and Public Services				424	201		62		78
Agriculture				46	22				23
Non-specified Others				116	1				87
Non-energy				325					

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					11 419	2 004		97	2 531			22 614
	20								300			8 199
- 731	- 26				- 4 320					- 5		- 7 831
- 549	42			31					- 108			1 087
- 1 280	36			31	7 100	2 004		97	2 723	- 5		24 069
- 153	1 546			25								- 40
1 771	208	128		250	- 3 921	- 2 004		- 71	- 502	4 134		- 3 408
- 71					- 3 700	- 1 953		- 71	- 112	3 917		- 2 103
- 67		- 32			- 221	- 51			- 167	217		- 502
1 909	208	160		250								- 709
									- 223			- 94
- 90	- 1 557	- 137		- 3	- 1 227					- 491		- 8 815
- 17	1 559	9		2	- 221				- 64			6 834
232	1 791			305	1 730			26	2 157	3 638		18 640
232	1 791				1 730			26	2 157	3 638		18 335
62	373				1 003				127	2 121		5 217
					50					962		1 135
62	373				953				127	1 159		4 082
142	503				575					4		7 942
												870
	503				575							6 925
142										4		146
27	915				153			25	2 031	1 514		5 176
	829				54			16	2 028	791		3 717
	85				99			10	3	722		1 287
	1											49
27	1											124
				305								305
					11 849	1 909		25	2 646			24 082
									370			7 620
- 755	- 19				- 4 624							- 8 805
- 399	- 168			146					- 254			- 108
- 1 155	- 187			146	7 225	1 909		25	2 762			22 788
- 39	1 724			- 307								105
1 509	204	142		483	- 3 774	- 1 909		- 39	- 664	3 914		- 2 956
- 67					- 3 580	- 1 857		- 39	- 115	3 655		- 2 080
- 79		- 32			- 195	- 52			- 302	260		- 651
1 655	204	174		483								- 164
									- 247			- 61
- 78		- 150		- 6	- 1 585					- 500		- 2 355
- 12	- 9	7		8	- 195			22		- 1		22
225	1 732			325	1 670			8	2 098	3 414		17 603
225	1 732				1 670			8	2 098	3 414		17 279
62	444				906				36	1 972		4 854
					86					893		1 126
62	444				819				36	1 078		3 728
136	402				549					3		7 312
												827
	402				549							6 347
136										3		139
27	886				216			8	2 063	1 439		5 112
	801				35			2	2 060	767		3 665
	82				180			6	3	672		1 285
	1											46
27	1											116
				325								325

Major Energy Indicators of Peru

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	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	9 944	13 627	17 512	21 296	22 035	21 512	22 788	24 069
Indigenous Production	10 599	10 609	18 814	21 650	22 372	23 201	24 082	22 614
Import	1 667	6 791	7 459	8 280	8 076	8 475	7 620	8 199
Export	-2 263	-3 808	-7 075	-9 152	-9 987	-10 333	-8 805	-7 831
Final Energy Consumption	8 671	11 007	15 245	15 567	16 160	17 316	17 279	18 335
Industry	1 954	2 083	4 234	4 400	4 403	4 941	4 854	5 217
Transport	2 497	209	6 020	6 320	6 803	7 319	7 312	7 942
Residential	3 630	3 263	3 893	3 526	3 600	3 624	3 665	3 717
Commerce & Public Services	295	240	925	1 096	1 098	1 241	1 285	1 287
Others	295	5 212	172	225	256	191	162	173
Coal, Coal Products								
Primary Energy Supply	145	921	813	799	846	880	841	810
Indigenous Production	68	30	64	114	148	137	147	170
Import	71	808	701	433	456	750	378	307
Export			- 75	- 119	- 115	- 113	- 200	- 177
Transformation Sector	- 37	- 372	- 276	- 289	- 307	- 329	- 202	- 165
Power Generation		- 230	- 276	- 289	- 307	- 329	- 202	- 165
Final Energy Consumption	91	557	657	557	574	573	692	726
Industry	84	99	657	557	574	573	692	725
Transport								
Residential								
Commerce & Public Services	7							1
Others		457						
Crude Oil								
Primary Energy Supply	7 204	9 579	11 050	10 505	10 874	10 817	10 857	10 633
Indigenous Production	6 549	5 306	7 115	6 740	6 900	7 357	7 506	6 394
Import	887	4 839	4 805	4 640	4 582	4 286	4 212	4 333
Export	- 150	- 651	- 956	- 803	- 788	- 741	- 783	- 402
Transformation Sector	-7 427	-8 235	-10 246	-9 765	-9 636	-9 165	-9 380	-8 849
Petroleum Refineries	-7 427	-8 235	-10 320	-9 965	-9 833	-9 351	-9 566	-8 978
Petroleum Products								
Primary Energy Supply	-1 387	-2 146	-4 133	- 309	- 491	- 615	- 830	708
Import	709	1 144	1 877	2 991	2 755	3 127	2 659	3 259
Export	-2 114	-3 156	-4 105	-3 561	-4 409	-4 067	-3 198	-2 928
Transformation Sector	6 625	7 458	9 533	9 000	8 852	8 840	9 097	7 970
Power Generation	- 759	- 619	- 524	- 573	- 525	- 373	- 305	- 300
Petroleum Refineries	7 384	8 078	10 057	9 573	9 377	9 213	9 402	8 269
Final Energy Consumption	4 935	6 294	8 110	8 517	8 816	9 492	9 396	10 058
Industry	1 001	792	1 273	1 306	1 257	1 312	1 249	1 242
Transport	2 497	209	5 690	5 962	6 300	6 791	6 761	7 363
Residential	853	604	652	668	712	789	801	829
Commerce & Public Services	288	57	323	356	381	409	424	451
Others	295	4 632	172	225	166	191	162	173
Natural Gas								
Primary Energy Supply	407	1 462	4 947	5 674	6 143	5 781	7 225	7 100
Indigenous Production	407	1 462	6 863	10 339	10 793	11 193	11 849	11 419
Import								
Export			-1 917	-4 666	-4 650	-5 412	-4 624	-4 320
Transformation Sector	- 67	- 959	-2 816	-3 149	-3 536	-3 232	-3 774	-3 921
Power Generation	- 67	- 959	-2 816	-3 149	-3 536	-3 232	-3 774	-3 921
Final Energy Consumption	67	136	1 022	1 251	1 284	1 761	1 670	1 730
Industry	25	14	641	745	683	1 052	906	1 003
Transport			330	358	503	527	549	575
Residential	41		6	9	16	23	35	54
Commerce & Public Services		1	45	140	82	159	180	99
Others		121						
Electricity								
Power Generation	1 187	2 193	3 087	3 257	3 432	3 723	3 914	4 134
Thermal	241	528	1 132	1 210	1 424	1 532	1 550	1 674
Hydro	900	1 545	1 723	1 810	1 836	1 871	1 909	2 004
Nuclear								
Others	46	120	232	237	172	320	456	456
Final Energy Consumption	1 013	1 954	2 715	2 949	3 117	3 290	3 414	3 638
Industry	647	1 175	1 511	1 645	1 649	1 871	1 972	2 121
Transport							3	4
Residential	367	602	654	710	750	753	767	791
Commerce & Public Services		177	551	594	628	665	672	722
Others					89			

Major Economic Indicators of Peru

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	21.83	27.61	29.37	29.76	30.16	30.57	30.97	31.38
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	58.5	105.8	147.5	156.9	166.5	176.2	180.4	186.3
Real Term (Billions of 2010 Price and 2010 PPP)	116.0	209.7	292.5	311.0	330.1	349.4	357.6	369.2
Nominal (Billions of Current USD)	29.1	76.1	147.5	171.8	192.6	201.2	201.0	189.2
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	2 680	3 831	5 022	5 271	5 521	5 766	5 824	5 936
Real Term (2010 Price and 2010 PPP)	5 313	7 595	9 957	10 449	10 944	11 430	11 545	11 768
Nominal (Current USD)	1 333	2 755	5 022	5 772	6 388	6 583	6 491	6 030
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	5	251	417	473	508	544	571	603
Household Final Consumption Expenditure	4	163	257	286	316	343	367	393
General Government Final Consumption Expenditure		29	44	49	55	63	72	79
Gross Fixed Capital Formation	1	43	98	110	127	138	140	140
Stock Change		1	1	4	- 2	1	1	5
Exports of Goods and Services	1	67	116	144	139	135	129	128
Imports of Goods and Services	1	51	99	121	128	136	138	143
Real GDP & its Components (Billions of 2007 PEN) *1								
Gross Domestic Product	151	274	382	406	431	456	467	482
Household Final Consumption Expenditure	106	167	236	252	271	287	298	308
General Government Final Consumption Expenditure	16	30	41	44	47	51	55	58
Gross Fixed Capital Formation	21	44	96	106	121	128	125	117
Stock Change	1	- 3	4	7	2	5	6	13
Exports of Goods and Services	27	93	108	114	118	117	113	115
Imports of Goods and Services	20	57	103	117	128	132	131	130
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	6.9	6.9	6.1	6.2	6.0	5.8	5.6	5.6
Industry	34.6	38.2	36.6	36.0	35.4	35.4	34.4	33.9
Services, etc.	58.6	46.5	48.2	48.8	49.5	49.5	50.6	51.4
Manufacturing Production Index (2010=100) *2	41.2	74.6	100.0	108.6	110.1	116.4	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.23	17.37	35.80	46.38	47.41	42.86	39.53	34.24
Imports, c.i.f.	2.63	12.50	30.03	37.75	42.55	43.67	42.35	37.93
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.43	5.58	7.17	9.93	5.97	0.61	N.A.	N.A.
Current Account	-1.42	1.15	-3.78	-2.99	-5.39	-9.39	-8.93	-9.17
Overall Balance	-1.95	1.18	9.62	5.57	13.92	1.05	N.A.	N.A.
Foreign Exchange Rate (PEN/USD) *1	0.19	3.30	2.83	2.75	2.64	2.70	2.84	3.18
PPP conversion factor, GDP (PEN/International Dollar) *1	0.07	1.34	1.45	1.52	1.51	1.50	1.52	1.53
Price Indices								
GDP Deflator (2007=100) *3	3.6	91.5	109.1	116.4	117.8	119.1	122.2	124.9
Wholesale Price Index (2010=100) *2	4.7	86.8	100.0	106.3	108.2	108.6	110.6	N.A.
Consumer Price Index (2010=100) *2	3.1	87.1	100.0	103.4	107.1	110.2	113.7	N.A.
Growth Rate (%) *3								
Real GDP	-4.98	6.29	8.33	6.33	6.14	5.85	2.35	3.25
Population	2.14	1.24	1.28	1.32	1.34	1.35	1.33	1.30
Price								
Wholesale Price Index	6 737.4	2.29	1.83	6.34	1.77	0.38	1.83	N.A.
Consumer Price Index	7 481.6	1.62	1.53	3.37	3.65	2.82	3.23	N.A.

Source *1 : World Development Indicators, World Bank

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: PEN means Nuevo Sol, USD means United States Dollar

: PPP means Purchasing Power Parity

The Republic of the Philippines

Energy Balance Table of the Republic of the Philippines

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	3 913		827						
Import	9 120		10 471	10 152	2 143	827	722	25	3 822
Export	-1 639		- 832	-1 324	- 209	- 232			
International Marine Bunkers				- 27					- 10
International Aviation Bunkers				-1 216			-1 216		
Stock Changes	240		- 36	- 83	- 53	20	- 9	2	- 57
Total Primary Energy Supply	11 634		10 431	7 502	1 880	616	- 502	27	3 756
Transfers									
Total Transformation Sector	-9 265		-10 181	8 853	2 548	331	913	60	3 772
Main Activity Producer	-9 265			-1 413					- 288
Autoproducers									
Gas Processing									
Petroleum Refineries			-10 420	10 266	2 548	331	913	60	4 059
Coal Transformation									
Other Transformation			239						
Loss & Own Use									
Discrepancy	- 19		- 250	-1 283	- 729	- 222	29	16	- 73
Total Final Consumption	2 350			15 072	3 699	725	440	103	7 454
Total Final Energy Consumption	2 218			14 025	3 699		440	103	7 454
Industry Sector	2 218			1 382				18	587
Iron and Steel	218			111				1	16
Chemical & Petrochemical	10			198				15	39
Non-metallic Minerals	1 771			202					40
Other Industries	219			871				1	492
Transport Sector				10 185	3 691		440		5 841
Domestic Air Transport				446	6		440		
Road				8 724	3 530				5 165
Rail				2					2
Inland Waterways				1 013	156				675
Other transport									
Other Sector				2 459	8			85	1 026
Residential				973				85	
Commerce and Public Services				1 292					843
Agriculture				34	2				33
Non-specified Others				159	6				150
Non-energy	132			1 047		725			
2014									
Indigenous Production	4 012		975						
Import	8 013		8 717	8 829	1 850	147	833	55	4 087
Export	-3 044		- 942	- 671	- 7	- 222			
International Marine Bunkers				- 89					- 23
International Aviation Bunkers				-1 040			-1 040		
Stock Changes	1 661		- 539	- 181	- 28	- 38	5	22	- 36
Total Primary Energy Supply	10 642		8 211	6 848	1 814	- 113	- 202	77	4 028
Transfers									
Total Transformation Sector	-8 227		-7 970	6 357	1 379	263	758	59	2 645
Main Activity Producer	-8 227			-1 378					- 334
Autoproducers									
Gas Processing									
Petroleum Refineries			-8 319	7 735	1 379	263	758	59	2 978
Coal Transformation									
Other Transformation			349						
Loss & Own Use									
Discrepancy			- 241	- 270	28	112	- 18	- 26	- 80
Total Final Consumption	2 415			12 936	3 221	262	538	109	6 593
Total Final Energy Consumption	2 261			12 486	3 221		538	109	6 593
Industry Sector	2 261			1 205				16	536
Iron and Steel	199			97				1	13
Chemical & Petrochemical	9			165				14	38
Non-metallic Minerals	1 691			144					33
Other Industries	362			800				1	451
Transport Sector				8 813	3 216		538		4 839
Domestic Air Transport				542	5		538		
Road				7 549	3 054				4 453
Rail				11					11
Inland Waterways				710	157				375
Other transport									
Other Sector				2 468	5			93	1 218
Residential				863				93	
Commerce and Public Services				1 432					1 053
Agriculture				31	1				30
Non-specified Others				141	4				135
Non-energy	154			450		262			

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					2 877	745		9 574	10 029			27 966
1 463	894			257					169			29 913
- 427	- 5			- 451								- 3 795
- 17												- 27
												- 1 216
23	- 4			- 6								121
1 042	884			- 201	2 877	745		9 574	10 199			52 962
- 211	488			952	- 2 719	- 745		- 9 574	- 2 663	7 088		- 19 206
- 1 125					- 2 719	- 745		- 9 574	- 158	7 088		- 16 787
												- 154
									- 2 505			- 2 266
					- 108					- 1 256		- 1 364
130	- 4			- 430					- 6			- 1 558
961	1 368			321	50				7 530	5 831		30 834
961	1 368				50				7 530	5 831		29 655
637	140				50				1 132	1 936		6 718
78	17									395		723
138	6									118		326
144	18									147		2 120
278	100				50				1 132	1 276		3 549
183	30									8		10 194
												446
	30											8 724
										8		10
183												1 013
141	1 198								6 397	3 887		12 743
	888								6 045	1 956		8 974
138	310								353	1 727		3 372
										179		213
3										24		184
				321								1 179
					3 061	786		8 879	9 851			27 564
708	849			302					190			25 750
- 232				- 209								- 4 656
- 66												- 89
												- 1 040
- 98	- 2			- 6					- 9			932
311	846			87	3 061	786		8 879	10 032			48 460
597	316			341	- 2 872	- 786		- 8 879	- 2 481	6 644		- 18 213
- 1 044					- 2 872	- 786		- 8 879	- 107	6 644		- 15 605
												- 584
									- 2 373			- 2 024
					- 111					- 1 197		- 1 308
- 88	43			- 240					2			- 509
819	1 205			188	78				7 553	5 448		28 430
819	1 205				78				7 553	5 448		27 825
527	127				78				1 121	1 843		6 508
68	14									376		671
108	5								1	112		286
94	17								1	140		1 976
256	91				78				1 120	1 215		3 574
178	42									10		8 822
												542
	42											7 549
										10		21
178												710
114	1 037								6 432	3 595		12 495
	770								6 065	1 803		8 731
113	267								364	1 613		3 410
									1	157		189
2									2	21		165
				188								605

Major Energy Indicators of the Republic of the Philippines

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	28 267	38 278	41 688	42 249	45 625	45 564	48 460	52 962
Indigenous Production	17 181	21 855	25 382	25 573	26 391	25 593	27 564	27 966
Import	12 555	18 943	21 617	20 964	22 074	23 163	25 750	29 913
Export	- 641	-1 954	-3 883	-2 864	-2 442	-2 608	-4 656	-3 795
Final Energy Consumption	19 058	22 560	25 079	24 796	25 702	26 798	27 825	29 655
Industry	4 511	5 215	5 871	5 747	5 845	6 296	6 508	6 718
Transport	4 290	7 867	8 097	7 789	8 108	8 466	8 822	10 194
Residential	9 132	7 208	8 099	8 217	8 402	8 623	8 731	8 974
Commerce & Public Services	841	1 962	2 668	2 743	3 028	3 056	3 410	3 372
Others	283	308	343	301	319	358	353	397
Coal, Coal Products								
Primary Energy Supply	1 358	5 230	7 030	7 726	9 316	10 003	10 642	11 634
Indigenous Production	649	1 520	3 510	3 632	3 879	3 743	4 012	3 913
Import	709	3 710	5 788	5 786	6 278	7 608	8 013	9 120
Export			-2 163	-1 444	-1 675	-1 795	-3 044	-1 639
Transformation Sector	- 559	-4 134	-5 090	-5 785	-6 300	-7 806	-8 227	-9 265
Power Generation	- 559	-4 134	-5 090	-5 785	-6 300	-7 806	-8 227	-9 265
Final Energy Consumption	526	1 056	1 831	1 736	1 784	2 082	2 261	2 218
Industry	526	1 056	1 831	1 736	1 784	2 082	2 261	2 218
Transport								
Residential								
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	10 825	10 493	9 054	9 019	9 033	7 751	8 211	10 431
Indigenous Production	229	765	922	313	220	220	975	827
Import	10 597	10 301	9 095	9 124	8 872	7 756	8 717	10 471
Export		- 738	- 862	- 329	- 141	- 187	- 942	- 832
Transformation Sector	-10 242	-9 958	-8 650	-9 187	-8 280	-7 746	-7 970	-10 181
Petroleum Refineries	-10 242	-9 958	-8 733	-9 277	-8 402	-7 894	-8 319	-10 420
Petroleum Products								
Primary Energy Supply	- 220	2 984	4 528	3 734	4 793	5 963	6 848	7 502
Import	1 249	4 931	6 639	5 905	6 755	7 582	8 829	10 152
Export	- 641	-1 216	- 857	-1 091	- 626	- 626	- 671	-1 324
Transformation Sector	7 939	8 126	7 071	8 263	7 256	6 686	6 357	8 853
Power Generation	-2 135	-1 411	-1 487	- 796	- 971	-1 077	-1 378	-1 413
Petroleum Refineries	10 074	9 537	8 558	9 059	8 227	7 762	7 735	10 266
Final Energy Consumption	7 619	11 315	11 607	11 179	11 422	11 935	12 486	14 025
Industry	2 225	1 669	1 431	1 318	1 275	1 281	1 205	1 382
Transport	4 290	7 860	8 087	7 778	8 097	8 455	8 813	10 185
Residential	766	1 000	930	916	901	880	863	973
Commerce & Public Services	98	520	942	980	967	1 124	1 432	1 292
Others	240	266	216	186	182	194	172	194
Natural Gas								
Primary Energy Supply		2 724	3 054	3 293	3 160	2 910	3 061	2 877
Indigenous Production		2 724	3 054	3 293	3 160	2 910	3 061	2 877
Import								
Export								
Transformation Sector		-2 589	-2 865	-3 137	-3 015	-2 737	-2 872	-2 719
Power Generation		-2 589	-2 865	-3 137	-3 015	-2 737	-2 872	-2 719
Final Energy Consumption				1	1	63	78	50
Industry						63	78	50
Transport				1	1	1		
Residential								
Commerce & Public Services								
Others								
Electricity								
Power Generation	2 264	4 865	5 826	5 938	6 271	6 473	6 644	7 088
Thermal	1 079	3 290	4 279	4 202	4 412	4 673	4 850	5 334
Hydro	521	721	671	812	882	862	786	745
Nuclear								
Others	664	853	876	925	977	938	1 008	1 008
Final Energy Consumption	1 824	3 884	4 753	4 824	5 092	5 295	5 448	5 831
Industry	855	1 325	1 598	1 663	1 726	1 778	1 843	1 936
Transport		8	10	10	10	10	10	8
Residential	482	1 379	1 620	1 608	1 694	1 773	1 803	1 956
Commerce & Public Services	444	1 130	1 398	1 430	1 529	1 574	1 613	1 727
Others	43	42	128	115	133	160	178	203

Major Economic Indicators of the Republic of the Philippines

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	61.95	86.27	93.73	95.28	96.87	98.48	100.10	101.72
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	94.5	156.9	199.6	206.9	220.7	236.3	250.8	266.1
Real Term (Billions of 2010 Price and 2010 PPP)	243.4	404.0	514.0	532.8	568.4	608.5	645.9	685.1
Nominal (Billions of Current USD)	44.3	103.1	199.6	224.1	250.1	271.8	284.6	292.8
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	1 526	1 818	2 130	2 171	2 279	2 400	2 506	2 616
Real Term (2010 Price and 2010 PPP)	3 929	4 682	5 484	5 592	5 868	6 179	6 453	6 736
Nominal (Current USD)	715	1 195	2 130	2 353	2 582	2 760	2 843	2 878
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	1 077	5 678	9 003	9 708	10 561	11 538	12 634	13 322
Household Final Consumption Expenditure	767	4 259	6 442	7 133	7 838	8 464	9 164	9 826
General Government Final Consumption Expenditure	109	513	875	942	1 145	1 251	1 334	1 456
Gross Fixed Capital Formation	249	1 130	1 848	1 819	2 069	2 380	2 612	2 929
Stock Change	11	94	2	168	- 146	- 71	- 15	- 103
Exports of Goods and Services	296	2 620	3 134	3 110	3 255	3 233	3 653	3 783
Imports of Goods and Services	359	2 938	3 297	3 463	3 599	3 719	4 114	4 569
Real GDP & its Components (Billions of 2000 PHP) *1								
Gross Domestic Product	2 700	4 481	5 702	5 910	6 305	6 751	7 165	7 600
Household Final Consumption Expenditure	1 775	3 302	3 946	4 166	4 443	4 692	4 953	5 267
General Government Final Consumption Expenditure	348	417	570	582	672	706	729	784
Gross Fixed Capital Formation	609	883	1 182	1 160	1 285	1 437	1 540	1 801
Stock Change	49	62	1	57	- 120	53	13	38
Exports of Goods and Services	870	2 213	2 886	2 813	3 054	3 025	3 407	3 695
Imports of Goods and Services	934	2 395	2 884	2 868	3 028	3 162	3 476	3 984
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	15.2	13.3	11.6	11.5	11.1	10.5	10.0	9.5
Industry	35.4	32.7	32.6	32.0	32.2	32.9	33.4	33.5
Services, etc.	49.4	54.0	55.8	56.5	56.7	56.7	56.6	57.0
Manufacturing Production Index (2010=100) *2	22.5	96.1	100.0	102.1	109.3	115.3	122.7	N.A
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	8.12	41.25	51.50	48.31	52.10	56.70	62.10	58.83
Imports, c.i.f.	13.04	49.49	58.47	63.69	65.35	65.71	67.72	70.15
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.02	-12.15	-16.86	-20.43	-18.93	-17.66	-15.85	N.A
Current Account	-2.70	1.99	7.18	5.64	6.95	11.38	10.76	7.27
Overall Balance	-0.64	-0.51	21.04	11.12	13.79	9.29	2.67	N.A
Foreign Exchange Rate (PHP/USD) *1	24.31	55.09	45.11	43.31	42.23	42.45	44.40	45.50
PPP conversion factor, GDP (PHP/International Dollar) *1	6.71	15.47	17.52	17.85	17.88	17.95	18.19	17.89
Price Indices								
GDP Deflator (2000=100) *3	39.9	126.7	157.9	164.3	167.5	170.9	176.3	175.3
Producer Prices (2010=100) *2	N.A.	92.9	100.0	100.9	100.4	92.8	91.9	N.A
Consumer Price Index (2010=100) *2	28.6	78.7	100.0	104.6	108.0	111.2	115.8	N.A
Growth Rate (%) *3								
Real GDP	3.04	4.78	7.63	3.66	6.68	7.06	6.15	6.07
Population	2.58	1.88	1.63	1.66	1.67	1.67	1.65	1.61
Price								
Producer Prices	N.A.	9.08	-4.97	0.91	-0.54	-7.59	-0.89	N.A
Consumer Price Index	12.18	6.52	3.79	4.65	3.17	3.00	4.13	N.A

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: PHP means Philippine Peso, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in the Republic of the Philippines in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	
Local Currency Unit		PHP

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES			WHOLESALE PRICES			CONSUMER PRICES		
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal			Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	USD/tonne	87.85	Sub-bituminous Coal	PHP/tonne	2,990	Sub-bituminous Coal	PHP/tonne	3,900
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil	USD/bbl	50.91	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD/bbl	39.50	LPG	PHP/kg	49.18	LPG	PHP/L	30.40
Naphtha	USD/bbl	47.73	Naphtha			Naphtha		
Motor Gasoline	USD/bbl	64.62	Motor Gasoline	PHP/L	50.13	Motor Gasoline (regular)	PHP/L	50.05
Aviation Gasoline	USD/bbl	183.91	Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	USD/bbl	55.74	Kerosene Type Jet Fuel	PHP/L	41.77	Kerosene Type Jet Fuel	PHP/L	41.77
Other Kerosene	USD/bbl	47.71	Other Kerosene	PHP/L	33.58	Other Kerosene	PHP/L	34.84
Gas/Diesel Oil	USD/bbl	51.05	Gas/Diesel Oil	PHP/L	34.06	Gas/Diesel Oil	PHP/L	33.32
Fuel Oil	USD/bbl	55.97	Fuel Oil	PHP/L	31.78	Fuel Oil	PHP/L	31.78
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen	USD/bbl	26.83	Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas	USD/GJ	8.20	Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial		
						Commercial		
						Residential		
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		
Condensate	USD/bbl	174.53				Auto LPG	PHP/L	30.00

The Russian Federation

Energy Balance Table of the Russian Federation

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products			
					Gasoline	Naphtha	Jet Fuel	Kerosene
2015								
Indigenous Production	200 270		536 284					
Import	14 239	63	3 543	1 960	858	9	20	109
Export	-98 043	-1 703	-247 532	-115 733	-4 988	- 621	-2 401	-39 062
International Marine Bunkers				-15 612				-10 816
International Aviation Bunkers				-5 066			-5 066	
Stock Changes	1 492	86	-2 280	1 173	87	119		289
Total Primary Energy Supply	117 957	-1 555	290 014	-133 278	-4 042	- 493	-7 448	-49 480
Transfers								
Total Transformation Sector	-108 793	9 900	-284 053	274 394	41 233	27 802	12 515	75 424
Main Activity Producer	-47 929			-1 670				
Autoproducers	-13 575	-3 128	- 594	-7 557				-1 909
Gas Processing								
Petroleum Refineries			-283 459	283 621	41 233	27 802	12 515	77 333
Coal Transformation	-47 289	13 028						
Other Transformation								
Loss & Own Use	- 929	-1 058	-5 870	-14 770				-3 373
Discrepancy	-3 279	1		8 285	- 2			4 927
Total Final Consumption	4 956	7 288	91	134 631	37 189	27 309	5 067	27 498
Total Final Energy Consumption	4 772	7 288	91	88 390	37 189		5 067	27 498
Industry Sector	1 226	7 273	23	14 451				3 496
Iron and Steel		6 766		168				
Chemical & Petrochemical	111	323	20	8 413				106
Non-metallic Minerals	901	74	1	79				46
Other Industries	214	110	2	5 791				3 344
Transport Sector				59 591	37 189		5 067	16 709
Domestic Air Transport				5 075	8		5 067	
Road				50 875	36 961			13 475
Rail				1 602	49			1 532
Inland Waterways				577	9			477
Other transport				1 462	162			1 225
Other Sector	3 546	15	68	14 348				7 293
Residential	2 068	15		8 161				1 989
Commerce and Public Services	1 385			2 379				1 828
Agriculture	92		10	3 292				3 222
Non-specified Others	1		58	516				254
Non-energy	184			46 241		27 309		
2014								
Indigenous Production	189 742		528 660					
Import	15 802	104	1 482	2 217	1 124	9	29	91
Export	-98 423	-1 754	-224 551	-116 332	-3 843	- 520	-2 546	-41 013
International Marine Bunkers				-14 915				-8 735
International Aviation Bunkers				-5 662			-5 662	
Stock Changes	-1 419	- 107	-4 687	2	174	- 9		- 19
Total Primary Energy Supply	105 706	-1 757	300 903	-134 692	-2 545	- 520	-8 179	-49 677
Transfers								
Total Transformation Sector	-97 519	9 897	-294 829	277 870	40 918	26 485	13 950	76 297
Main Activity Producer	-43 523			-1 586				
Autoproducers	-13 251	-2 963	- 615	-8 650				-2 050
Gas Processing								
Petroleum Refineries			-294 214	288 106	40 918	26 485	13 950	78 347
Coal Transformation	-40 745	12 860						
Other Transformation								
Loss & Own Use	- 790	-1 131	-6 093	-14 259				-2 820
Discrepancy	-3 364	6	129	5 427	- 82		- 108	2 989
Total Final Consumption	4 033	7 015	110	134 346	38 291	25 965	5 663	26 789
Total Final Energy Consumption	3 851	7 015	110	89 321	38 291		5 663	26 789
Industry Sector	1 253	6 994	32	13 732				3 332
Iron and Steel		6 788		308				
Chemical & Petrochemical	101	7	28	7 223				125
Non-metallic Minerals	919	100	1	109				65
Other Industries	233	99	3	6 092				3 142
Transport Sector				60 383	38 291		5 663	15 649
Domestic Air Transport				5 674	11		5 663	
Road				51 269	37 924			12 959
Rail				1 596	68			1 486
Inland Waterways				698	24			460
Other transport				1 146	264			744
Other Sector	2 598	21	78	15 206				7 808
Residential	1 434	21		8 206				2 023
Commerce and Public Services	1 078			2 491				1 826
Agriculture	84		13	3 776				3 715
Non-specified Others	2		65	733				244
Non-energy	182			45 025		25 965		

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					524 178	14 447	51 279	157	7 569			1334 184
	137			827	7 229				4	566		27 604
-63 315	-4 051			-1 295	-164 926				-21	-1 569		-629 527
-4 796												-15 612
												-5 066
555	51			72	-2 332				10			-1 851
-67 556	-3 863			-396	364 149	14 447	51 279	157	7 563	-1 003		709 730
66 056	20 442	18 510		12 412	-207 379	-14 448	-51 280	-158	-4 281	91 643	124 340	-170 115
-1 670					-139 601	-14 319	-51 280	-158		85 452	57 013	-112 492
-4 842	-18	-788			-65 785	-129			-4 281	6 191	67 327	-21 531
72 568	20 460	19 298		12 412								162
												-34 261
					-1 993							-1 993
-862	-77	-10 458			-17 411				-238	-28 177	-21 064	-89 517
3 327	32	2		-1	1 809	1	1	1	-34		1	6 786
965	16 534	8 054		12 015	141 168				3 010	62 463	103 277	456 884
965	7 439	8 054		2 178	108 291				3 010	62 463	103 277	377 582
379	344	8 054		2 178	35 489				873	28 294	36 537	124 166
168					12 550				388	5 266	6 751	31 889
19	234	8 054			5 715				42	3 958	12 003	30 585
11	22				10 191				11	1 604	2 371	15 232
181	88			2 178	7 033				432	17 466	15 412	46 460
177	449				27 210					7 062		93 863
												5 075
	439				80							50 955
21										4 261		5 863
91												577
65	10				27 130					2 801		31 393
409	6 646				45 592				2 137	27 107	66 740	159 553
22	6 150				42 325				1 074	12 602	48 194	114 439
123	428				2 160				935	13 087	16 190	36 136
2	68				1 107				128	1 398	2 348	8 375
262										20	8	603
	9 095			9 837	32 877							79 302
					531 178	15 073	47 464	136	7 063			1319 316
5	152			807	7 061				2	570		27 238
-63 289	-3 726			-1 395	-155 745				-10	-1 262		-598 077
-6 180												-14 915
												-5 662
-334	190				2 815				16			-3 380
-69 799	-3 384			-588	385 308	15 073	47 464	136	7 071	-692		724 520
71 045	19 999	16 176		13 000	-227 600	-15 073	-47 464	-141	-4 370	91 360	132 133	-175 736
-1 586					-147 843	-14 940	-47 464	-141		85 621	59 600	-110 276
-5 815	-27	-758			-77 688	-133			-4 370	5 739	72 533	-29 398
78 446	20 026	16 934		13 000								-6 108
												-27 885
					-2 069							-2 069
-2 032	-95	-9 312			-16 320				-170	-27 215	-22 700	-88 678
2 634	-3			-3	-3 581			5	7	1	-3	-1 373
1 848	16 517	6 864		12 409	137 807				2 538	63 454	109 430	458 733
1 848	7 395	6 864		2 471	106 330				2 538	63 454	109 430	382 049
704	361	6 864		2 471	37 175				485	28 698	37 515	125 884
308					13 191				139	5 333	6 425	32 184
18	216	6 864			5 717				42	3 963	11 204	28 285
22	22				10 827				11	1 710	2 481	16 158
356	123			2 471	7 440				293	17 692	17 405	49 257
380	400				26 603					7 762		94 748
												5 674
	386				50							51 319
42										4 296		5 892
214												698
124	14				26 553					3 466		31 165
764	6 634				42 552				2 053	26 994	71 915	161 417
33	6 150				39 580				986	12 549	52 537	115 313
240	425				2 095				905	13 053	17 038	36 660
2	59				877				162	1 369	2 331	8 612
489										23	9	832
	9 122			9 938	31 477							76 684

Major Energy Indicators of the Russian Federation

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	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	879 174	651 707	688 402	721 870	739 924	719 848	724 520	709 730
Indigenous Production	1293 077	1203 236	1279 369	1299 400	1316 001	1330 896	1319 316	1334 184
Import	120 444	23 179	22 887	30 560	27 668	27 357	27 238	27 604
Export	-532 992	-562 462	-601 989	-600 658	-593 669	-622 035	-598 077	-629 527
Final Energy Consumption	584 795	367 656	380 236	391 882	381 837	367 643	382 049	377 582
Industry	208 654	123 013	126 316	128 103	131 231	123 215	125 884	124 166
Transport	115 871	88 565	96 485	98 414	93 623	93 847	94 748	93 863
Residential	83 495	110 545	111 456	117 516	109 903	105 370	115 313	114 439
Commerce & Public Services	36 275	34 723	37 022	35 878	35 845	36 724	36 660	36 136
Others	140 500	10 810	8 957	11 971	11 235	8 487	9 444	8 978
Coal, Coal Products								
Primary Energy Supply	191 052	112 633	100 933	103 330	117 811	108 329	103 949	116 402
Indigenous Production	192 378	157 426	166 361	164 566	185 109	184 275	189 742	200 270
Import	35 088	13 643	15 311	19 206	18 264	17 527	15 906	14 302
Export	-40 422	-55 764	-85 948	-80 571	-85 179	-91 065	-100 177	-99 746
Transformation Sector	-127 228	-96 124	-89 817	-93 930	-101 411	-94 410	-87 622	-98 893
Power Generation	-104 930	-76 853	-70 839	-73 131	-72 961	-69 593	-59 737	-64 632
Final Energy Consumption	54 710	12 549	13 972	15 383	13 080	11 584	10 866	12 060
Industry	14 557	6 870	9 872	11 346	8 897	8 623	8 247	8 499
Transport								
Residential	11 881	2 830	1 548	1 553	1 561	1 002	1 455	2 083
Commerce & Public Services	20 581	2 674	2 473	2 415	2 563	1 904	1 078	1 385
Others	7 691	175	79	69	59	55	86	93
Crude Oil								
Primary Energy Supply	321 937	216 839	256 925	267 031	281 418	285 812	300 903	290 014
Indigenous Production	526 252	468 707	506 540	514 865	521 251	524 195	528 660	536 284
Import	18 592	2 438	1 105	468	840	858	1 482	3 543
Export	-222 907	-253 848	-248 266	-248 812	-241 149	-237 788	-224 551	-247 532
Transformation Sector	-308 934	-213 893	-251 965	-262 076	-276 400	-280 684	-294 829	-284 053
Petroleum Refineries	-307 419	-213 127	-251 178	-261 284	-275 604	-279 902	-294 214	-283 459
Petroleum Products								
Primary Energy Supply	-58 159	-87 643	-117 843	-109 666	-113 632	-127 435	-134 692	-133 278
Import	7 329	26	2 832	4 199	1 728	1 832	2 217	1 960
Export	-64 273	-83 538	-111 999	-103 927	-106 611	-117 532	-116 332	-115 733
Transformation Sector	209 140	192 118	239 710	238 235	243 803	261 206	277 870	274 394
Power Generation	-60 579	-16 004	-10 327	-15 831	-15 834	-9 845	-10 236	-9 227
Petroleum Refineries	269 719	208 854	250 037	254 066	259 637	271 051	288 106	283 621
Final Energy Consumption	125 712	69 669	77 491	82 515	82 304	84 309	89 321	88 390
Industry	24 456	10 266	11 038	10 116	11 259	12 029	13 732	14 451
Transport	72 882	47 558	56 302	59 348	58 695	59 486	60 383	59 591
Residential	8 771	6 331	4 719	5 768	6 291	7 056	8 206	8 161
Commerce & Public Services	421	845	1 663	2 508	2 171	2 174	2 491	2 379
Others	19 182	4 669	3 769	4 775	3 888	3 564	4 509	3 808
Natural Gas								
Primary Energy Supply	367 287	349 570	383 435	395 877	387 008	386 077	385 308	364 149
Indigenous Production	516 675	515 695	540 003	552 728	540 639	554 147	531 178	524 178
Import	56 422	6 200	3 497	6 551	6 605	6 734	7 061	7 229
Export	-201 662	-167 375	-154 131	-165 269	-158 777	-174 062	-155 745	-164 926
Transformation Sector	-227 684	-205 778	-222 926	-238 538	-242 940	-239 688	-227 600	-207 379
Power Generation	-227 684	-203 725	-221 249	-236 810	-241 268	-238 070	-225 531	-205 386
Final Energy Consumption	121 969	106 601	109 209	105 217	96 338	97 092	106 330	108 291
Industry	30 485	30 111	32 354	31 213	34 068	33 706	37 175	35 489
Transport	34 044	33 835	32 848	31 296	27 013	26 573	26 603	27 210
Residential	47 122	38 133	40 431	39 692	32 253	33 509	39 580	42 325
Commerce & Public Services	8 780	3 558	3 021	2 485	2 397	2 249	2 095	2 160
Others	1 538	964	555	531	607	1 055	877	1 107
Electricity								
Power Generation	93 065	81 799	89 106	90 558	91 962	90 952	91 360	91 643
Thermal	64 633	50 005	55 633	56 885	57 957	56 118	56 338	55 981
Hydro	14 269	14 850	14 317	14 262	14 267	15 579	15 073	14 448
Nuclear	10 174	12 852	14 656	14 873	15 268	14 836	15 545	16 810
Others	3 988	4 091	4 500	4 538	4 470	4 420	4 404	4 404
Final Energy Consumption	71 092	55 896	62 496	62 678	63 664	63 991	63 454	62 463
Industry	41 430	28 368	28 110	28 623	29 120	28 955	28 698	28 294
Transport	8 924	7 153	7 335	7 770	7 915	7 788	7 762	7 062
Residential	9 197	9 367	11 154	11 256	11 369	12 014	12 549	12 602
Commerce & Public Services	5 752	9 541	14 524	13 728	13 921	13 911	13 053	13 087
Others	5 789	1 467	1 373	1 301	1 339	1 323	1 392	1 418

Major Economic Indicators of the Russian Federation

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	148.29	143.52	142.85	142.96	143.20	143.51	143.82	144.10
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	1 414	1 281	1 525	1 590	1 646	1 667	1 679	1 632
Real Term (Billions of 2010 Price and 2010 PPP)	3 061	2 774	3 301	3 442	3 563	3 608	3 635	3 532
Nominal (Billions of Current USD)	N.A.	764	1 525	2 032	2 170	2 231	2 064	1 366
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	9 534	8 928	10 675	11 122	11 493	11 616	11 675	11 323
Real Term (2010 Price and 2010 PPP)	20 639	19 326	23 108	24 074	24 879	25 144	25 273	24 511
Nominal (Current USD)	N.A.	5 323	10 675	14 212	15 154	15 544	14 349	9 479
Nominal GDP & its Components (Billions of Current RUR) *1								
Gross Domestic Product		21 610	46 309	59 698	66 927	71 017	79 200	83 233
Household Final Consumption Expenditure		10 792	23 843	30 189	34 581	38 326	42 304	43 551
General Government Final Consumption Expenditure		3 646	8 671	10 873	12 503	13 998	14 207	14 544
Gross Fixed Capital Formation		3 837	10 014	11 936	13 522	14 357	16 828	17 266
Stock Change		502	458	1 846	1 832	650	787	1 356
Exports of Goods and Services		7 607	13 529	16 865	18 325	18 909	21 426	23 861
Imports of Goods and Services		4 648	9 790	12 011	13 787	14 921	16 352	17 149
Real GDP & its Components (Billions of 2000 RUR) *1								
Gross Domestic Product	53 088	48 110	57 257	59 698	61 798	62 589	63 047	61 264
Household Final Consumption Expenditure	13 546	19 999	28 293	30 189	32 410	33 816	34 487	31 132
General Government Final Consumption Expenditure	12 431	10 081	10 723	10 873	11 141	11 298	11 058	10 720
Gross Fixed Capital Formation	23 713	7 643	10 940	11 936	12 654	12 769	12 716	11 459
Stock Change	17 531	4 552	450	1 846	1 671	517	- 13	- 457
Exports of Goods and Services	11 377	14 371	16 815	16 865	17 095	17 880	17 971	18 635
Imports of Goods and Services	7 537	6 489	9 984	12 011	13 174	13 651	12 660	9 391
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.3	3.8	3.1	3.4	3.3	3.4	3.4	3.6
Industry	40.0	32.3	29.0	29.2	29.3	29.1	28.9	29.0
Services, etc.	49.5	48.9	54.5	53.7	53.8	53.9	54.1	54.3
Industrial Production Index (2010=100) *2	N.A.	91.5	100.0	105.0	108.5	109.0	110.8	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	N.A.	243.80	400.63	522.01	529.26	521.84	496.81	341.47
Imports, c.i.f.	N.A.	125.43	248.63	323.83	335.45	341.27	307.88	192.95
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	116.19	147.00	196.85	191.66	181.94	189.74	N.A.
Current Account	N.A.	84.39	67.45	97.27	71.28	33.43	57.51	68.83
Overall Balance	N.A.	69.95	45.88	21.29	40.39	-11.81	-113.65	N.A.
Foreign Exchange Rate (RUR/USD) *1		28.28	30.37	29.38	30.84	31.84	38.38	60.94
PPP conversion factor, GDP (RUR/International Dollar) *1		12.74	15.82	17.35	18.46	19.42	21.28	23.98
Price Indices								
GDP Deflator (2000=100) *3	0.0	44.9	80.9	100.0	108.3	113.5	125.6	135.9
Producer Price Index (2010=100) *3	N.A.	61.7	100.0	117.7	125.7	129.9	137.8	N.A.
Consumer Price Index (2010=100) *2	N.A.	61.4	100.0	108.4	113.9	121.6	131.2	N.A.
Growth Rate (%)								
Real GDP (*3)	-3.00	6.38	4.50	4.26	3.52	1.28	0.73	-2.83
Population (*3)	0.39	-0.38	0.04	0.08	0.17	0.21	0.22	0.19
Price (*2)								
Producer Price Index	N.A.	20.57	12.22	17.71	6.76	3.34	6.08	N.A.
Consumer Price Index	N.A.	12.68	6.86	8.43	5.07	6.76	7.83	N.A.

Source *1 : *World Development Indicators*, World Bank*2 : *International Financial Statistics*, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: RUR means Russian Ruble, USD means United States Dollar

: PPP means Purchasing Power Parity

Singapore

Energy Balance Table of Singapore

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production									
Import	400	7	39 950	118 577	15 632	9 612	2 009	2	18 566
Export			- 754	-90 468	-25 356	- 782	-4 956	- 328	-23 385
International Marine Bunkers				-43 484					-1 781
International Aviation Bunkers				-7 379	- 1		-7 378		
Stock Changes			- 156	- 999	- 220				- 19
Total Primary Energy Supply	400	7	39 040	-23 753	-9 946	8 830	-10 324	- 326	-6 619
Transfers			6 948	-7 114		-4 725			-1 239
Total Transformation Sector	- 256		-45 988	44 229	10 835	1 995	10 324	326	9 379
Main Activity Producer	- 256			- 14					
Autoproducers				- 214					
Gas Processing									
Petroleum Refineries			-45 988	44 457	10 835	1 995	10 324	326	9 379
Coal Transformation									
Other Transformation									
Loss & Own Use				-1 715					
Discrepancy				- 1					
Total Final Consumption	144	7		11 646	889	6 100			1 521
Total Final Energy Consumption	144	7		5 020	889				1 521
Industry Sector	144	7		2 724					223
Iron and Steel									
Chemical & Petrochemical				2 333					
Non-metallic Minerals									
Other Industries	144	7		391					223
Transport Sector				2 187	889				1 298
Domestic Air Transport									
Road				2 135	889				1 246
Rail									
Inland Waterways				52					52
Other transport									
Other Sector				109					
Residential				28					
Commerce and Public Services				81					
Agriculture									
Non-specified Others									
Non-energy				6 626		6 100			
2014									
Indigenous Production									
Import	389	7	42 394	107 384	14 791	8 914	2 042	7	16 161
Export			- 584	-85 113	-25 260	- 450	-5 052	- 187	-22 638
International Marine Bunkers				-40 824					-1 358
International Aviation Bunkers				-7 214	- 2		-7 212		
Stock Changes			- 156	- 103	- 1				- 19
Total Primary Energy Supply	389	7	41 653	-25 869	-10 472	8 464	-10 222	- 180	-7 853
Transfers			7 413	-7 565		-4 695			-1 488
Total Transformation Sector	- 229		-49 066	47 175	11 384	2 330	10 222	180	10 966
Main Activity Producer	- 229			- 29					- 2
Autoproducers				- 229					
Gas Processing									
Petroleum Refineries			-49 066	47 433	11 384	2 330	10 222	180	10 968
Coal Transformation									
Other Transformation									
Loss & Own Use				-1 828					
Discrepancy				- 1		1			- 1
Total Final Consumption	160	7		11 912	912	6 100			1 624
Total Final Energy Consumption	160	7		5 234	912				1 624
Industry Sector	160	7		2 863					273
Iron and Steel									
Chemical & Petrochemical				2 413					
Non-metallic Minerals									
Other Industries	160	7		450					273
Transport Sector				2 263	912				1 351
Domestic Air Transport									
Road				2 189	912				1 277
Rail									
Inland Waterways				74					74
Other transport									
Other Sector				108					
Residential				28					
Commerce and Public Services				80					
Agriculture									
Non-specified Others									
Non-energy				6 678		6 100			

Note: The above energy balance tables were obtained from IEA.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
								6	614			620
71 518	10			1 228	9 323				63			168 320
-28 586	- 242			-6 833								-91 222
-41 703												-43 484
												-7 379
- 760					- 88							-1 243
469	- 232			-5 605	9 235			6	677			25 612
-1 150												- 166
1 948	359	2 843		6 220	-8 156			- 6	- 677	4 335		-6 519
- 14					-7 267			- 6	- 677	3 858		-4 362
- 32		- 182			- 889					477		- 626
1 994	359	3 025		6 220								-1 531
- 416		-1 299			- 12					- 249		-1 976
- 1					174					1		174
850	127	1 544		615	1 241					4 087		17 125
850	127	1 544		89	1 241					4 087		10 499
850	18	1 544		89	1 089					1 622		5 586
789		1 544										2 333
61	18			89	1 089					1 622		3 253
					14					210		2 411
					14							2 149
										210		210
												52
	109				138					2 255		2 502
	28				54					621		703
	81				82					1 610		1 773
					2					24		26
				526								6 626
								3	646			649
64 254	10			1 205	9 283				44			159 501
-24 397	- 238			-6 891								-85 697
-39 466												-40 824
												-7 214
- 83					- 88							- 347
308	- 228			-5 686	9 195			3	690			26 068
-1 382												- 152
2 364	358	3 011		6 360	-8 068			- 3	- 690	4 247		-6 634
- 27					-7 257			- 3	- 690	3 814		-4 394
- 35		- 194			- 811					433		- 607
2 426	358	3 205		6 360								-1 633
- 441		-1 387			- 12					- 256		-2 096
1	- 1			- 1	164					- 2		161
850	129	1 624		673	1 279					3 989		17 347
850	129	1 624		95	1 279					3 989		10 669
850	21	1 624		95	1 127					1 595		5 752
789		1 624										2 413
61	21			95	1 127					1 595		3 339
					17					210		2 490
					17							2 206
										210		210
												74
	108				135					2 184		2 427
	28				53					595		676
	80				81					1 569		1 730
					1					20		21
				578								6 678

Major Energy Indicators of Singapore

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	11 527	21 566	25 417	26 279	25 687	25 441	26 068	25 612
Indigenous Production	70	394	588	605	623	643	649	620
Import	61 402	113 744	156 956	165 967	157 373	157 372	159 501	168 320
Export	-36 878	-63 541	-87 590	-93 462	-83 810	-84 327	-85 697	-91 222
Final Energy Consumption	3 094	7 134	9 982	10 467	10 427	10 756	10 669	10 499
Industry	605	3 235	5 205	5 491	5 451	5 799	5 752	5 586
Transport	1 358	1 954	2 512	2 690	2 635	2 560	2 490	2 411
Residential	279	607	653	639	652	664	676	703
Commerce & Public Services	819	1 223	1 578	1 616	1 662	1 709	1 730	1 773
Others	33	115	34	31	27	24	21	26
Coal, Coal Products								
Primary Energy Supply	22	3	7	7	25	266	396	407
Indigenous Production								
Import	37	3	7	7	25	266	396	407
Export	-15							
Transformation Sector	-1				-2	-134	-229	-256
Power Generation	-1				-2	-134	-229	-256
Final Energy Consumption	21	2	7	7	23	132	167	151
Industry	21	2	7	7	23	132	167	151
Transport								
Residential								
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	41 678	59 610	46 782	49 468	48 888	44 730	41 653	39 040
Indigenous Production								
Import	43 533	59 780	47 316	49 658	49 314	45 668	42 394	39 950
Export	-19	-169	-479	-481	-484	-566	-584	-754
Transformation Sector	-41 678	-59 610	-53 281	-56 328	-56 674	-52 114	-49 066	-45 988
Petroleum Refineries	-41 678	-59 610	-53 281	-56 328	-56 674	-52 114	-49 066	-45 988
Petroleum Products								
Primary Energy Supply	-30 243	-44 010	-29 172	-31 086	-31 748	-29 109	-25 869	-23 753
Import	17 832	48 392	102 421	109 017	100 135	102 527	107 384	118 577
Export	-36 844	-63 372	-87 111	-92 981	-83 326	-83 761	-85 113	-90 468
Transformation Sector	36 896	57 032	48 423	51 500	52 936	50 243	47 175	44 229
Power Generation	-4 415	-2 109	-2 208	-2 213	-1 605	-751	-258	-228
Petroleum Refineries	41 381	59 259	50 631	53 713	54 541	50 994	47 433	44 457
Final Energy Consumption	1 897	3 575	5 225	5 590	5 473	5 460	5 234	5 020
Industry	111	1 623	2 787	2 999	2 940	3 003	2 863	2 724
Transport	1 342	1 851	2 310	2 473	2 415	2 338	2 263	2 187
Residential	43	38	33	31	31	31	28	28
Commerce & Public Services	401	63	95	87	87	88	80	81
Others								
Natural Gas								
Primary Energy Supply		5 569	7 212	7 285	7 899	8 884	9 195	9 235
Indigenous Production								
Import		5 569	7 212	7 285	7 899	8 884	9 283	9 323
Export								
Transformation Sector	62	-5 065	-5 964	-6 141	-6 753	-7 606	-8 068	-8 156
Power Generation		-5 171	-5 964	-6 141	-6 753	-7 606	-8 068	-8 156
Final Energy Consumption	62	505	1 116	1 171	1 130	1 298	1 279	1 241
Industry		398	965	1 010	975	1 136	1 127	1 089
Transport			21	26	20	18	17	14
Residential	30	45	49	50	51	52	53	54
Commerce & Public Services			80	84	83	91	81	82
Others	32	62	1	1	1	1	1	2
Electricity								
Power Generation	1 351	3 286	3 901	3 958	4 040	4 125	4 247	4 335
Thermal	1 281	2 892	3 313	3 353	3 417	3 455	3 554	3 642
Hydro								
Nuclear								
Others	70	394	588	605	623	670	693	693
Final Energy Consumption	1 114	3 052	3 634	3 699	3 801	3 866	3 989	4 087
Industry	473	1 212	1 446	1 475	1 513	1 528	1 595	1 622
Transport	16	103	181	191	200	204	210	210
Residential	206	524	571	558	570	581	595	621
Commerce & Public Services	418	1 160	1 403	1 445	1 492	1 530	1 569	1 610
Others	1	53	33	30	26	23	20	24

Major Economic Indicators of Singapore

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	3.05	4.27	5.08	5.18	5.31	5.40	5.47	5.54
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	67.6	170.7	236.4	251.1	260.9	273.9	283.7	289.2
Real Term (Billions of 2010 Price and 2010 PPP)	104.6	264.3	366.1	388.8	403.9	424.1	439.2	447.7
Nominal (Billions of Current USD)	38.9	127.4	236.4	275.6	289.2	302.5	308.2	296.8
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	22 178	40 020	46 569	48 447	49 103	50 731	51 865	52 244
Real Term (2010 Price and 2010 PPP)	34 340	61 965	72 105	75 013	76 029	78 549	80 305	80 892
Nominal (Current USD)	12 766	29 870	46 569	53 168	54 432	56 029	56 338	53 629
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	71	212	322	347	361	379	390	408
Household Final Consumption Expenditure	32	83	115	124	133	139	143	150
General Government Final Consumption Expenditure	7	22	33	33	33	38	39	43
Gross Fixed Capital Formation	22	49	84	88	97	105	104	106
Stock Change	3	- 4	7	6	11	10	7	3
Exports of Goods and Services	125	480	644	705	713	735	755	726
Imports of Goods and Services	118	417	560	611	628	650	659	620
Real GDP & its Components (Billions of 2010 SGD) *1								
Gross Domestic Product	92	233	322	342	356	373	387	394
Household Final Consumption Expenditure	41	96	115	119	124	128	131	137
General Government Final Consumption Expenditure	8	24	33	32	32	35	35	38
Gross Fixed Capital Formation	24	53	84	89	96	101	100	101
Stock Change	7	- 4	7	5	11	10	7	3
Exports of Goods and Services	105	469	644	685	695	736	765	785
Imports of Goods and Services	96	409	560	588	602	638	657	676
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Industry	25.9	24.7	26.1	26.3	25.9	25.2	25.1	23.9
Services, etc.	66.5	69.2	68.3	68.5	69.0	70.3	70.5	71.4
Industrial Production Index (2010=100) *2	27.5	70.9	100.0	107.6	107.9	109.8	112.7	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	52.73	229.65	351.87	409.50	408.39	410.25	409.30	346.64
Imports, c.i.f.	60.77	200.05	310.79	365.77	379.72	373.02	366.25	296.75
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.63	47.74	62.84	71.55	67.49	74.50	76.36	N.A.
Current Account	3.12	27.87	55.42	61.04	50.25	51.17	60.82	53.76
Overall Balance	7.05	11.99	37.67	16.13	26.99	18.01	9.16	N.A.
Foreign Exchange Rate (SGD/USD) *1	1.81	1.66	1.36	1.26	1.25	1.25	1.27	1.37
PPP conversion factor, GDP (SGD/International Dollar) *1	1.04	0.90	0.90	0.89	0.88	0.86	0.84	0.86
Price Indices								
GDP Deflator (2010=100) *3	76.5	91.1	100.0	101.2	101.6	101.4	100.9	103.5
Wholesale Prices (2010=100) *2	91.2	97.9	100.0	108.4	109.0	106.0	102.5	N.A.
Consumer Price Index (2010=100) *2	71.9	88.0	100.0	105.3	110.0	112.6	113.8	N.A.
Growth Rate (%) *3								
Real GDP	10.04	7.49	15.24	6.22	3.87	5.00	3.57	1.93
Population	3.97	2.38	1.79	2.11	2.48	1.63	1.31	1.19
Price								
Wholesale Prices	1.73	9.65	4.74	8.44	0.47	-2.70	-3.29	N.A.
Consumer Price Index	3.46	0.43	2.80	5.25	4.53	2.38	1.01	N.A.

Source *1 : World Development Indicators, World Bank

*2 : International Financial Statistics, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note

: N.A. means "not available"

: SGD means Singapore Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Chinese Taipei

Energy Balance Table of Chinese Taipei

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production			8						
Import	36 257	124	44 172	19 062	155	13 950			73
Export				-16 494	-4 300	-50	-1 023		-9 035
International Marine Bunkers				-1 098					-91
International Aviation Bunkers				-2 556			-2 556		
Stock Changes	-466	23	-224	-171	-207	172			-137
Total Primary Energy Supply	35 791	148	43 956	-1 257	-4 351	14 073	-3 580		-9 190
Transfers				-700	3 848	-3 402	-47		-81
Total Transformation Sector	-29 051	2 635	-43 994	41 566	8 231	7 951	3 835	3	13 806
Main Activity Producer	-18 231			-2 496					-118
Autoproducers	-4 846	-1 036		-375					
Gas Processing									
Petroleum Refineries			-43 994	44 437	8 231	7 951	3 835	3	13 925
Coal Transformation	-5 973	3 671							
Other Transformation									
Loss & Own Use		-1 274		-1 460	-5				-25
Discrepancy	-1 197	16	38	700	195	-49	60	2	220
Total Final Consumption	5 543	1 524		38 849	7 918	18 573	268	5	4 730
Total Final Energy Consumption	5 469	1 400		16 406	7 918		268	5	4 730
Industry Sector	5 469	1 400		1 919	6				97
Iron and Steel	171	1 307		287					6
Chemical & Petrochemical	3 719	93		640					58
Non-metallic Minerals	1 203			258					11
Other Industries	376			733	5				22
Transport Sector				12 045	7 883		86		3 966
Domestic Air Transport				86			86		
Road				11 808	7 883				3 873
Rail				22					22
Inland Waterways				128					70
Other transport									
Other Sector				2 441	30		182	5	667
Residential				1 125					
Commerce and Public Services				964	30		182	5	343
Agriculture				4					1
Non-specified Others				349					324
Non-energy	75	124		22 443		18 573			
2014									
Indigenous Production			-66						
Import	36 695	115	45 349	19 395		13 232			
Export		-47		-16 941	-4 215		-1 012		-9 853
International Marine Bunkers				-1 173					-109
International Aviation Bunkers				-2 400			-2 400		
Stock Changes	88		-821	-156	149	-339		-2	187
Total Primary Energy Supply	36 783	68	44 462	-1 275	-4 066	12 893	-3 412	-2	-9 776
Transfers				-767	-93	1 266	-10		94
Total Transformation Sector	-30 313	2 367	-44 575	41 825	11 842	3 508	3 742		14 168
Main Activity Producer	-19 027			-1 580					-70
Autoproducers	-5 282	-1 054		-576					
Gas Processing									
Petroleum Refineries			-44 647	43 981	11 842	3 508	3 742		14 239
Coal Transformation	-6 005	3 420							
Other Transformation			72						
Loss & Own Use		-1 248		-1 586	-3				-21
Discrepancy	-1 182	515	113	583	26		-76	6	193
Total Final Consumption	5 288	1 702		38 780	7 706	17 667	244	4	4 659
Total Final Energy Consumption	5 263	1 596		16 417	7 706		244	4	4 659
Industry Sector	5 263	1 596		2 220	6				105
Iron and Steel	164	1 386		235					7
Chemical & Petrochemical	3 483	211		786					62
Non-metallic Minerals	1 188			256					13
Other Industries	429			943	6				23
Transport Sector				11 797	7 669		89		3 903
Domestic Air Transport				89			89		
Road				11 538	7 669				3 798
Rail				25					25
Inland Waterways				145					81
Other transport									
Other Sector				2 400	31		155	4	651
Residential				1 091					
Commerce and Public Services				962	31		155	4	341
Agriculture				4					1
Non-specified Others				343					310
Non-energy	25	106		22 363		17 667			

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					299	350	9 504	309	1 944			12 414
1 024	1 630			2 229	17 913							117 529
- 963	- 9			-1 115								-16 494
-1 007												-1 098
												-2 556
14	- 14				9				4			- 825
- 931	1 607			1 115	18 221	350	9 504	309	1 948			108 970
- 835	- 9			- 173								- 700
3 445	1 127	1 292		1 876	-13 818	- 350	-9 504	- 206	-1 737	22 190		-32 269
-2 377					-13 756	- 350	-9 504	- 206		18 808		-25 736
- 212		- 4		- 159	- 62				-1 733	3 382		-4 669
6 035	1 127	1 296		2 035								443
												-2 303
- 78	- 60	-1 292			- 339				- 4	-2 451		- 4
349	- 27			- 51	- 922				- 23	215		-1 173
1 950	2 638			2 766	3 142			102	189	19 954		69 304
1 950	1 523			11	3 142			102	189	19 954		46 661
1 527	278			11	1 771				189	11 503		22 250
252	17			11	242					1 368		3 375
451	131				398				43	2 613		7 506
239	9				197					494		2 152
585	121				934				145	7 028		9 217
59	52									116		12 161
												86
	52											11 808
										116		138
59												128
364	1 194				1 372			102		8 336		12 251
	1 125				725			99		3 885		5 834
336	69				647			3		4 207		5 820
2										164		167
25										80		429
	1 115			2 755								22 642
1 816	2 048			2 299	303	372	11 047	277	1 652			13 585
- 721	- 53			-1 086	16 853							118 408
-1 064												-16 988
												-1 173
- 65	- 86				- 2							-2 400
- 35	1 909			1 212	17 154	372	11 047	277	1 652			- 892
-1 798	- 148			- 78								110 540
-1 798	- 148			- 78								- 767
4 043	1 297	1 366		1 858	-12 761	- 372	-11 047	- 176	-1 525	22 358		-34 220
-1 510					-12 694	- 372	-11 047	- 176	- 19	18 768		-26 146
- 379		- 7		- 191	- 68				-1 434	3 589		-4 825
5 932	1 297	1 372		2 049								- 665
									- 72			-2 584
- 130	- 66	-1 366			- 335					-1 766		-4 936
172	8			254	-1 051					-1 403		-2 424
2 253	3 001			3 247	3 007			101	127	19 188		68 193
2 253	1 540			12	3 007			101	127	19 188		45 700
1 784	313			12	1 657				127	10 869		21 733
207	9			12	283					1 345		3 413
543	182				379				3	2 600		7 461
236	7				203					490		2 137
798	116				793				124	6 434		8 722
65	71									114		11 911
												89
	71											11 538
										114		139
65												145
403	1 155				1 350			101		8 206		12 057
	1 091				738			101		3 820		5 750
367	64				612					4 152		5 725
3										154		158
33										80		423
	1 461			3 235								22 493

Major Energy Indicators of Chinese Taipei

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	45 477	97 644	110 128	106 653	106 514	107 893	110 540	108 970
Indigenous Production	10 748	12 713	13 301	13 477	13 305	13 497	13 585	12 414
Import	39 723	105 281	116 527	109 453	112 174	114 379	118 408	117 529
Export	- 335	-15 369	-15 841	-13 426	-16 442	-17 165	-16 988	-16 494
Final Energy Consumption	28 427	30 466	46 062	46 437	45 724	46 356	45 700	46 661
Industry	15 667	5 944	22 353	22 497	22 106	22 664	21 733	22 250
Transport	6 735	12 454	11 854	12 025	11 789	11 792	11 911	12 161
Residential	2 904	5 776	5 719	5 827	5 713	5 697	5 750	5 834
Commerce & Public Services	2 259	5 450	5 606	5 550	5 545	5 637	5 725	5 820
Others	862	842	530	538	572	566	581	596
Coal, Coal Products								
Primary Energy Supply	10 562	33 540	39 186	36 992	36 073	36 797	36 851	35 939
Indigenous Production	278							
Import	11 389	33 947	39 106	37 081	35 799	36 898	36 811	36 381
Export		- 28	- 78	- 66	- 76	- 9	- 47	
Transformation Sector		-29 747	-31 059	-28 123	-27 734	-27 369	-27 947	-26 416
Power Generation	-5 145	-24 798	-28 700	-25 940	-25 579	-25 133	-25 362	-24 113
Final Energy Consumption	5 903	5 438	6 767	6 870	6 759	7 232	6 860	6 869
Industry	5 897	5 438	6 767	6 870	6 759	7 232	6 860	6 869
Transport								
Residential								
Commerce & Public Services								
Others	6							
Crude Oil								
Primary Energy Supply	20 512	53 937	45 915	42 648	47 074	44 527	44 462	43 956
Indigenous Production	156	29	13	10	10	9	- 66	8
Import	21 105	54 207	46 059	41 908	46 603	44 038	45 349	44 172
Export								
Transformation Sector		-54 064	-46 059	-42 627	-47 354	-44 572	-44 575	-43 994
Petroleum Refineries	-20 512	-54 064	-46 059	-42 627	-47 354	-44 572	-44 647	-43 994
Petroleum Products								
Primary Energy Supply	3 406	-11 037	-1 035	-1 057	-5 335	-2 787	-1 275	-1 257
Import	6 467	8 691	18 569	15 869	14 469	17 572	19 395	19 062
Export	- 335	-15 341	-15 763	-13 360	-16 366	-17 156	-16 941	-16 494
Transformation Sector		50 462	44 012	40 474	45 254	42 632	41 825	41 566
Power Generation	-4 825	-3 776	-2 990	-2 555	-2 222	-2 254	-2 156	-2 871
Petroleum Refineries	19 184	54 238	47 002	43 028	47 476	44 885	43 981	44 437
Final Energy Consumption	15 232	6 007	18 149	17 782	16 942	16 607	16 417	16 406
Industry	5 803	5 559	3 869	3 413	2 856	2 527	2 220	1 919
Transport	6 698	12 409	11 754	11 921	11 683	11 683	11 797	12 045
Residential	1 094	1 304	1 186	1 168	1 137	1 114	1 091	1 125
Commerce & Public Services	973	1 149	1 035	975	927	953	962	964
Others	664	-14 413	305	304	339	329	347	353
Natural Gas								
Primary Energy Supply	1 728	8 957	13 012	14 867	15 760	16 173	17 154	18 221
Indigenous Production	1 045	438	237	264	354	305	303	299
Import	762	8 435	12 793	14 596	15 303	15 871	16 853	17 913
Export								
Transformation Sector		-6 829	-10 472	-11 294	-11 624	-12 002	-12 761	-13 818
Power Generation	- 241	-6 829	-10 472	-11 294	-11 623	-12 003	-12 761	-13 818
Final Energy Consumption	926	1 924	2 124	2 378	2 661	2 809	3 007	3 142
Industry	392	854	1 014	1 218	1 441	1 548	1 657	1 771
Transport								
Residential	400	749	695	737	751	734	738	725
Commerce & Public Services	81	321	415	423	468	527	612	647
Others	53							
Electricity								
Power Generation	7 481	19 558	21 247	21 687	21 533	21 702	22 358	22 190
Thermal	6 777	14 504	15 709	16 067	15 979	16 059	16 711	17 074
Hydro	704	344	362	345	489	467	372	350
Nuclear		3 438	3 580	3 622	3 476	3 581	3 645	3 137
Others		1 273	1 597	1 653	1 589	1 595	1 629	1 629
Final Energy Consumption	6 367	17 102	18 778	19 178	19 138	19 491	19 188	19 954
Industry	3 575	9 227	10 563	10 869	10 928	11 240	10 869	11 503
Transport	37	45	100	103	106	110	114	116
Residential	1 410	3 638	3 735	3 820	3 722	3 747	3 820	3 885
Commerce & Public Services	1 206	3 978	4 156	4 152	4 150	4 157	4 152	4 207
Others	139	214	225	234	233	237	234	244

Major Economic Indicators of Chinese Taipei

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	20.40	21.00	21.93	22.09	22.28	22.41	22.52	22.60
Gross Domestic Product *4								
Real Term (Billions of 2010 Price and 2010 USD)	161.6	376.8	464.9	482.6	492.6	503.4	523.2	526.6
Real Term (Billions of 2010 Price and 2010 PPP)	307.8	717.6	919.	919.	938.	958.6	996.3	1 002.7
Nominal (Billions of Current USD)	165.3	368.1	464.9	472.5	504.1	508.5	507.5	510.1
GDP per Capita *4								
Real Term (2010 Price and 2010 USD)	7 923	16 549	20 073	20 781	21 127	21 538	22 326	22 415
Real Term (2010 Price and 2010 PPP)	15 086	31 513	39 678	39 570	40 229	41 013	42 514	42 684
Nominal (Current USD)	8 101	16 166	20 073	20 345	21 620	21 757	21 657	21 712
Nominal GDP & its Components (Billions of Current TWD) *2								
Gross Domestic Product	4 480	12 092	14 119	14 312	14 687	15 231	16 097	16 688
Private Final Consumption	2 341	6 784	7 498	7 799	8 035	8 248	8 581	8 728
Government Final Consumption	810	1 846	2 099	2 168	2 254	2 243	2 341	2 324
Gross Fixed Capital Formation	1 111	2 924	3 336	3 347	3 282	3 379	3 484	3 458
Changes in Inventories	31	34	189	36	22	- 19	28	9
Exports	2 020	7 330	10 014	10 420	10 345	10 580	11 258	10 777
Imports	1 833	6 825	9 015	9 457	9 252	9 200	9 596	8 608
Real GDP & its Components (Billions of 2011 TWD) *2								
Gross Domestic Product	4 793	11 175	13 788	14 312	14 608	14 929	15 515	15 616
Private Final Consumption	3 092	7 111	7 563	7 799	7 941	8 126	8 397	8 593
Government Final Consumption	1 245	1 977	2 126	2 168	2 214	2 197	2 275	2 268
Gross Fixed Capital Formation	1 563	3 410	3 386	3 347	3 259	3 432	3 493	3 535
Changes in Inventories	45	34	196	36	19	- 48	31	6
Exports	2 080	7 024	10 000	10 420	10 462	10 828	11 468	11 449
Imports	2 930	8 283	9 501	9 457	9 288	9 604	10 147	10 241
Sectional Shares of Real GDP (%) *2								
Agriculture	N.A.	N.A.	1.7	1.7	1.6	1.6	1.6	N.A.
Industry	N.A.	N.A.	32.3	33.0	33.4	33.2	34.2	N.A.
Services	N.A.	N.A.	65.7	65.3	64.8	64.8	64.2	N.A.
Industrial Production Index (2011=100) *1	N.A.	75.0	95.8	100.0	99.8	100.4	106.8	106.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	67.42	198.43	274.60	308.26	301.18	305.44	296.04	296.04
Imports, c.i.f.	54.79	182.61	251.24	281.44	270.47	269.90	273.22	273.22
Balance of Payments (Billions of Current USD) *3								
Balance on Goods and Services	N.A.	11.71	27.58	30.42	36.34	44.07	52.75	N.A.
Current Account	N.A.	16.48	38.44	39.91	49.02	55.31	65.42	N.A.
Overall Balance	N.A.	20.06	40.17	6.24	15.48	11.32	13.02	N.A.
Foreign Exchange Rate (TWD/USD) *1	27.11	32.85	30.37	30.29	29.14	29.95	31.72	32.72
PPP conversion factor, GDP (TWD/International Dollar) *1	N.A.	N.A.	16	16	N.A.	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (2011=100) *2	93.5	108.2	102.4	100.0	100.5	102.0	103.8	106.9
Wholesale Price Index (2011=100) *2	74.0	84.2	95.9	100.0	98.8	96.4	95.9	87.4
Consumer Price Index (2011=100) *2	69.6	92.9	98.6	100.0	101.9	102.7	104.0	103.4
Growth Rate (%) *2								
Real GDP	5.65	5.42	10.63	3.80	2.06	2.20	3.92	0.65
Population	1.21	0.36	0.18	0.27	0.39	0.25	0.26	0.25
Price								
Wholesale Price Index	-0.59	0.61	5.46	4.32	-1.16	-2.43	-0.57	-8.84
Consumer Price Index	4.13	2.30	0.96	1.42	1.93	0.79	1.20	-0.57

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

*2 : Statistics from Statistical Bureau, Chinese Taipei

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

*4 : Calculated from *1 and *2 by the Coordinating Agency

*5 : PPP in 2010 is estimated by IEA data.

Note : N.A. means "not available"

: TWD means New Taiwan Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Chinese Taipei in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	31.56
Local Currency Unit		NTD

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES			WHOLESALE PRICES			CONSUMER PRICES		
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	USD/tonne	108.32	Coking Coal			Coking Coal		
Anthracite	USD/tonne	98.95	Anthracite			Anthracite		
Other bituminous coal	USD/tonne	74.57	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	USD/tonne	56.14	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	USD/tonne	206.30	Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil	USD/bbl	51.72	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD/tonne	464.66	LPG	NTD/kg	24.86	LPG	NTD/kg	24.86
Naphtha	USD/tonne	507.00	Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	NTD/ L	18.92	Motor Gasoline (regular)	NTD/L	21.57
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene			Other Kerosene	NTD/L	22.60	Other Kerosene	NTD/L	22.60
Gas/Diesel Oil			Gas/Diesel Oil	NTD/L	16.02	Gas/Diesel Oil	NTD/L	17.40
Fuel Oil	USD/KL	382.49	Fuel Oil	NTD/KL	13,834	Fuel Oil	NTD/KL	13,834
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas	NTD/m ³	11.01	Natural Gas	NTD/m ³	12.19
Liquefied Natural Gas	USD/tonne	443.59	Liquefied Natural Gas	NTD/m ³	12.00	Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity	NTD/KWh	2.93	Industrial	NTD/KWh	2.86
						Commercial	NTD/KWh	3.69
						Residential	NTD/KWh	2.50
						Others	NTD/KWh	
Other Energy Products			Other Energy Products			Other Energy Products		

Thailand

Energy Balance Table of Thailand

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	3 859		18 587						
Import	6 876	6 970	44 903	2 420	705		4		106
Export	- 16		- 136	-11 934	-1 368		-1 525	- 15	-5 433
International Marine Bunkers									
International Aviation Bunkers				-5 706			-5 706		
Stock Changes	-3 864	-2 079	4 880	-2 486	- 630		5	-1 177	- 343
Total Primary Energy Supply	6 856	4 890	68 235	-17 705	-1 294		-7 221	-1 192	-5 671
Transfers			-5 188	5 634					
Total Transformation Sector	-6 260	-1 147	-56 858	52 050	10 028		7 577	1 202	24 970
Main Activity Producer	-6 260	-1 147		- 188					- 25
Autoproducers				- 6					
Gas Processing				473					
Petroleum Refineries			-58 817	51 772	10 028		7 577	1 202	24 995
Coal Transformation									
Other Transformation			1 960						
Loss & Own Use				-1 447					
Discrepancy	63		47	- 431					
Total Final Consumption	659	3 744	6 236	38 101	8 734		355	10	19 299
Total Final Energy Consumption	659	3 744		35 225	8 734		355	10	19 299
Industry Sector	659	3 744		5 938	50			10	4 621
Iron and Steel	76	78		364				2	273
Chemical & Petrochemical	3	164		868				2	162
Non-metallic Minerals	515	3 174		340				3	307
Other Industries	66	328		4 366	50			3	3 878
Transport Sector				22 876	8 663		355		10 753
Domestic Air Transport				355			355		
Road				21 225	8 663				10 523
Rail				78					78
Inland Waterways				1 218					152
Other transport									
Other Sector				6 412	21				3 925
Residential				1 843					
Commerce and Public Services				623					
Agriculture				3 946	21				3 925
Non-specified Others									
Non-energy			6 236	2 876					
2014									
Indigenous Production	4 730		17 417						
Import	6 961	6 226	41 892	3 780	661		4		303
Export	- 18		- 645	-10 238	-1 063		-1 194	- 25	-3 756
International Marine Bunkers									
International Aviation Bunkers				-4 757			-4 757		
Stock Changes	-2 709	-2 152	3 850	- 158	- 590		- 150	- 872	870
Total Primary Energy Supply	8 965	4 075	62 514	-11 374	- 992		-6 097	- 897	-2 583
Transfers			-4 746	4 754					
Total Transformation Sector	-8 296	- 117	-51 694	43 692	7 434		6 415	906	20 921
Main Activity Producer	-8 296	- 117		- 390					- 18
Autoproducers				- 7					
Gas Processing									
Petroleum Refineries			-53 568	44 089	7 434		6 415	906	20 939
Coal Transformation									
Other Transformation			1 874						
Loss & Own Use				-1 447					
Discrepancy	3		- 184	-1 216				2	-1 189
Total Final Consumption	672	3 957	5 891	34 410	6 443		318	11	17 148
Total Final Energy Consumption	672	3 957		31 531	6 443		318	11	17 148
Industry Sector	672	3 957		4 966				9	3 320
Iron and Steel	12	88		373				2	193
Chemical & Petrochemical	4	172		703				2	115
Non-metallic Minerals	592	3 348		286				2	218
Other Industries	64	350		3 604				3	2 794
Transport Sector				20 024	6 422		318		9 898
Domestic Air Transport				318			318		
Road				18 432	6 422				9 685
Rail				72					72
Inland Waterways				1 203					141
Other transport									
Other Sector				6 541	21			3	3 930
Residential				2 165				2	
Commerce and Public Services				416					
Agriculture				3 959	21				3 930
Non-specified Others									
Non-energy			5 891	2 880					

Note: Others excludes non-commercial biomass supply and consumption.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					28 486	334		234	25 255			76 754
144	1 414			47	13 175				105	1 240		75 689
-3 181	- 42			- 369					- 25	- 195		-12 305
												-5 706
- 140	- 159			- 41					32			-3 517
-3 177	1 213			- 363	41 661	334		234	25 367	1 045		130 916
	4 704		930									446
4 800	2 261			1 213	-25 547	- 334		- 234	-11 242	15 854	12	-33 703
- 163					-25 547	- 334		- 233		12 754		-20 954
- 6								- 1	-3 725	3 100	12	- 620
	473											473
4 970	1 788			1 213								-7 045
									-7 517			-5 557
	-1 447				-8 204					-1 300		-10 951
	- 431				- 2				- 23		- 12	- 359
1 623	6 300		930	850	7 908			1	14 102	15 598		86 349
1 623	5 204				6 070			1	14 102	15 598		75 399
557	700				3 358				7 811	6 615		28 125
79	10				386					660		1 565
47	656				707				506	1 035		3 281
23	6				938				772	665		6 404
407	27				1 327				6 533	4 255		16 875
1 066	2 039				2 710					9		25 595
												355
	2 039				2 710							23 935
										9		87
1 066												1 218
	2 466				1			1	6 291	8 975		21 679
	1 843								6 291	3 564		11 698
	623				1			1		5 378		6 002
										33		3 979
			930	850	1 838							10 950
	1 096											
					31 998	458		213	25 997			80 813
364	2 393			55	9 754				105	1 054		69 773
-3 762	- 12			- 427					- 28	- 137		-11 066
												-4 757
270	408			- 94					85			-1 084
-3 129	2 789			- 466	41 753	458		213	26 159	917		133 679
	4 754											8
5 180	1 717			1 120	-24 380	- 458		- 201	-11 442	15 004		-37 891
- 372					-22 576	- 458		- 200		12 476		-19 561
- 7					-1 804			- 1	-3 542	2 528		-2 825
5 558	1 717			1 120								-9 478
									-7 901			-6 027
	-1 447				-9 164					-1 461		-12 071
- 27	- 1				2				- 1			-1 395
2 024	7 812			654	8 212			12	14 716	14 461		82 330
2 024	5 587				5 566			12	14 716	14 461		70 915
952	685				2 740				8 683	5 871		26 889
136	42				315					2 052		2 839
81	505				577				239	941		2 636
40	26				765				486	594		6 072
694	112				1 083				7 958	2 283		15 341
1 062	2 325				2 826					9		22 859
												318
	2 325				2 826							21 258
										9		81
1 062												1 203
9	2 577				1			12	6 033	8 581		21 167
	2 163								6 033	3 366		11 565
2	414				1			12		5 099		5 528
7										36		3 995
										80		80
	2 225			654	2 646							11 416

Major Energy Indicators of Thailand

ktoe

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	42 479	101 712	125 090	124 890	127 792	129 533	133 679	130 916
Indigenous Production	26 282	55 839	76 844	76 980	79 395	83 052	80 813	76 754
Import	18 944	57 321	64 949	64 389	69 838	70 140	69 773	75 689
Export	- 810	-9 050	-12 195	-11 259	-16 557	-15 808	-11 066	-12 305
Final Energy Consumption	28 550	58 800	66 632	66 095	69 185	77 360	70 915	75 399
Industry	2 602	17 371	16 638	18 484	20 224	21 794	26 889	28 125
Transport	9 618	20 246	21 179	21 581	22 529	24 861	22 859	25 595
Residential	7 237	8 992	11 049	11 119	10 383	11 461	11 565	11 698
Commerce & Public Services	1 268	3 226	4 691	4 633	5 157	10 576	5 528	6 002
Others	7 827	8 965	13 075	10 278	10 892	8 669	4 074	3 979
Coal, Coal Products								
Primary Energy Supply	3 819	10 707	14 473	15 296	14 243	12 960	13 039	11 746
Indigenous Production	3 629	5 567	4 917	5 938	4 790	4 731	4 730	3 859
Import	180	5 140	10 135	9 882	11 059	10 309	13 188	13 846
Export			- 13	- 4	- 6	- 6	- 18	- 16
Transformation Sector	-2 885	-4 982	-6 943	-8 876	-8 541	-8 039	-8 413	-7 406
Power Generation	-2 885	-4 982	-6 943	-8 876	-8 541	-8 039	-8 413	-7 406
Final Energy Consumption	934	5 768	7 530	6 421	5 970	5 327	4 629	4 403
Industry	934	5 768	7 530	6 421	5 970	5 327	4 629	4 403
Transport								
Residential								
Commerce & Public Services								
Others								
Crude Oil								
Primary Energy Supply	12 860	52 502	59 439	59 109	60 378	60 940	62 514	68 235
Indigenous Production	2 752	12 859	18 295	17 910	17 497	17 498	17 417	18 587
Import	10 961	41 693	42 757	41 814	45 074	45 062	41 892	44 903
Export	- 767	-3 478	-1 589	-1 808	-2 423	-1 620	- 645	- 136
Transformation Sector	-11 689	-46 495	-48 436	-47 060	-49 377	-54 205	-51 694	-56 858
Petroleum Refineries	-11 689	-46 495	-49 254	-47 947	-50 530	-55 829	-53 568	-58 817
Petroleum Products								
Primary Energy Supply	5 848	-7 361	-14 198	-13 096	-14 520	-16 513	-11 374	-17 705
Import	7 731	1 980	163	2 091	2 908	3 231	3 780	2 420
Export	- 21	-5 516	-10 423	-9 229	-13 808	-14 013	-10 238	-11 934
Transformation Sector	8 939	34 398	39 422	38 656	50 901	43 352	43 692	52 050
Power Generation	-2 548	-1 967	- 263	- 453	- 508	- 384	- 397	- 194
Petroleum Refineries	11 488	36 365	39 684	39 109	51 409	43 735	44 089	51 772
Final Energy Consumption	15 109	29 949	28 762	29 258	31 273	33 736	31 531	35 225
Industry	2 751	4 691	2 812	2 897	3 829	4 951	4 966	5 938
Transport	9 618	20 192	19 576	19 536	20 062	22 138	20 024	22 876
Residential	468	1 310	1 667	2 040	2 407	1 923	2 165	1 843
Commerce & Public Services	459	570	1 204	1 090	1 183	915	416	623
Others	1 812	3 187	3 504	3 694	3 791	3 809	3 959	3 946
Natural Gas								
Primary Energy Supply	4 695	28 313	42 113	40 416	45 246	46 158	41 753	41 661
Indigenous Production	4 695	20 208	30 908	30 813	35 434	35 827	31 998	28 486
Import		8 105	11 205	9 603	9 812	10 330	9 754	13 175
Export								
Transformation Sector	-4 177	-20 770	-30 891	-27 724	-29 784	-22 919	-24 380	-25 547
Power Generation	-4 177	-20 770	-24 758	-20 929	-22 424	-22 919	-24 380	-25 547
Final Energy Consumption	264	2 027	3 769	4 485	5 094	5 339	5 566	6 070
Industry	264	1 977	2 171	2 447	2 635	2 629	2 740	3 358
Transport		49	1 597	2 036	2 458	2 709	2 826	2 710
Residential								
Commerce & Public Services			1	2	1	1	1	1
Others								
Electricity								
Power Generation	3 794	11 375	13 701	13 320	14 744	14 498	15 004	15 854
Thermal	3 371	10 008	11 563	10 540	11 694	10 770	10 805	11 779
Hydro	421	488	460	682	725	465	458	334
Nuclear								
Others	1	879	1 678	2 098	2 325	3 263	3 742	3 742
Final Energy Consumption	3 285	10 197	12 840	12 802	13 913	13 725	14 461	15 598
Industry	1 562	4 902	5 851	5 843	6 221	5 830	5 871	6 615
Transport		5	6	9	9	14	9	9
Residential	693	2 191	2 856	2 821	3 134	3 239	3 366	3 564
Commerce & Public Services	809	2 656	3 487	3 540	3 972	4 386	5 099	5 378
Others	221	443	639	588	576	256	115	33

Major Economic Indicators of Thailand

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	56.58	65.43	67.21	67.53	67.84	68.14	68.42	68.66
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	142	284	341	344	369	379	382	394
Real Term (Billions of 2010 Price and 2010 PPP)	369	739	888	896	960	987	996	1 025
Nominal (Billions of Current USD)	85	189	341	371	398	421	407	399
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	2 503	4 337	5 075	5 094	5 437	5 561	5 590	5 734
Real Term (2010 Price and 2010 PPP)	6 516	11 292	13 214	13 261	14 156	14 479	14 553	14 928
Nominal (Current USD)	1 508	2 894	5 075	5 491	5 860	6 171	5 942	5 815
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	2 184	7 614	10 808	11 307	12 357	12 921	13 204	13 673
Household Final Consumption Expenditure	1 235	4 252	5 639	5 988	6 544	6 747	6 942	7 025
General Government Final Consumption Expenditure	205	1 040	1 708	1 825	2 021	2 119	2 243	2 366
Gross Fixed Capital Formation	882	2 110	2 593	2 921	3 336	3 278	3 261	3 373
Stock Change	21	206	147	108	127	268	- 98	- 331
Exports of Goods and Services	745	5 208	7 186	8 011	8 622	8 798	9 167	9 446
Imports of Goods and Services	909	5 288	6 567	7 781	8 492	8 432	8 270	7 862
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	3 418	6 849	8 232	8 302	8 903	9 146	9 230	9 501
Household Final Consumption Expenditure	1 899	3 859	4 314	4 393	4 688	4 732	4 774	4 877
General Government Final Consumption Expenditure	414	896	1 256	1 302	1 396	1 421	1 460	1 505
Gross Fixed Capital Formation	1 547	1 885	2 004	2 102	2 327	2 303	2 252	2 351
Stock Change	39	188	107	68	82	175	- 64	- 68
Exports of Goods and Services	1 178	4 717	6 068	6 645	6 972	7 159	7 170	7 218
Imports of Goods and Services	1 449	4 867	5 666	6 368	6 727	6 840	6 477	6 478
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	11.5	8.1	7.3	7.7	7.4	7.2	7.1	6.5
Industry	33.2	38.4	39.7	37.8	37.8	37.3	37.0	37.0
Services, etc.	56.8	53.5	53.0	54.5	54.9	55.4	55.9	56.5
Industrial Production Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	23.07	110.94	193.31	222.58	229.11	228.50	227.52	214.35
Imports, c.i.f.	33.05	118.18	182.92	228.79	249.12	250.41	227.75	202.65
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	3.39	29.67	16.99	6.69	6.73	24.56	N.A.
Current Account	N.A.	-7.65	11.49	9.43	-1.70	-4.86	15.22	32.11
Overall Balance	N.A.	-0.68	35.08	0.59	11.50	-7.86	-0.76	N.A.
Foreign Exchange Rate (THB/USD) *1	25.59	40.22	31.69	30.49	31.08	30.73	32.48	34.25
PPP conversion factor, GDP (THB/International Dollar) *1	8.98	11.34	12.17	12.37	12.38	12.40	12.33	12.28
Price Indices								
GDP Deflator (1988=100) *3	63.9	111.2	131.3	136.2	138.8	141.3	143.1	143.9
Producer Prices (2010=100) *2	42.5	76.5	100.0	105.4	106.5	106.8	107.0	N.A.
Consumer Price Index (2010=100) *2	49.7	86.6	100.0	103.8	106.9	109.3	111.3	N.A.
Growth Rate (%) *3								
Real GDP	11.17	4.19	7.51	0.84	7.24	2.73	0.91	2.94
Population	1.41	0.65	0.49	0.48	0.46	0.44	0.40	0.35
Price								
Producer Prices	3.45	9.13	9.41	5.45	1.02	0.31	0.14	N.A.
Consumer Price Index	5.86	4.54	3.27	3.81	3.02	2.18	1.90	N.A.

Source *1 : *World Development Indicators*, World Bank*2 : *International Financial Statistics*, International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: THB means Baht, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Prices in Thailand in 2015

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	
Local Currency Unit		THB

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES		WHOLESALE PRICES		CONSUMER PRICES				
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite	Baht/tonne	4,279	Anthracite			Anthracite		
Other bituminous coal			Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	Baht/tonne	2,267	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite	Baht/tonne	1,329	Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	Baht/tonne	11,252	Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB	Baht/tonne	1,572	BKB/PB			BKB/PB		
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil			Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG	Baht/kg	18.14	LPG	Baht/kg	23.39
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	Baht/L	31.50	Motor Gasoline (regular)	Baht/L	27.60
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene			Other Kerosene	Baht/L	18.74	Other Kerosene	Baht/L	29.36
Gas/Diesel Oil			Gas/Diesel Oil	Baht/L	22.00	Gas/Diesel Oil	Baht/L	24.54
Fuel Oil			Fuel Oil	Baht/L	11.65	Fuel Oil	Baht/L	20.91
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial		
						Commercial		
						Residential		
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

The United States

Energy Balance Table of the United States

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products				
					Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2015									
Indigenous Production	431 282		582 082						
Import	5 960	88	407 354	75 536	33 300	1 514	6 851	217	11 190
Export	-43 430	- 536	-43 850	-171 659	-28 286		- 8 349	- 642	-58 526
International Marine Bunkers				-12 940					-6 920
International Aviation Bunkers				-23 580			-23 580		
Stock Changes	-18 862	- 381	-12 054	-6 937	618	20	- 348	- 61	-3 278
Total Primary Energy Supply	374 951	- 829	933 533	-139 581	5 632	1 535	-25 428	- 486	-57 534
Transfers			-89 076	91 081	1 362		- 369	- 30	2 234
Total Transformation Sector	-356 225	5 610	-839 267	833 044	374 813	8 741	78 324	722	243 932
Main Activity Producer	-337 881	- 203		-6 607			- 16	- 110	-1 639
Autoproducers	-2 061	- 643		-2 295				- 2	- 51
Gas Processing	-1 993								
Petroleum Refineries			-844 078	841 946	374 813	8 741	78 340	834	245 622
Coal Transformation	-14 290	6 456							
Other Transformation			4 811						
Loss & Own Use	- 38	-1 287		-34 316	-1 577		- 38	- 2	-6 433
Discrepancy	-2 666	- 2	- 983	3 447	1	1	- 2	- 1	5 973
Total Final Consumption	16 022	3 492	4 207	753 675	380 231	10 277	52 487	203	188 172
Total Final Energy Consumption	16 022	3 492		649 955	380 231		52 487	203	186 406
Industry Sector	15 350	3 492		21 542	166				13 750
Iron and Steel	107	2 802		253					112
Chemical & Petrochemical	3 203			3 138					1 747
Non-metallic Minerals	5 685			1 304					420
Other Industries	6 355	690		16 847	166				11 471
Transport Sector				578 525	374 865		52 487		148 529
Domestic Air Transport				52 983	496		52 487		
Road				504 748	369 998				133 173
Rail				11 889					11 889
Inland Waterways				8 905	4 371				3 467
Other transport									
Other Sector	672			49 888	5 200			203	24 127
Residential				21 199				163	7 551
Commerce and Public Services	672			12 378	904			40	5 665
Agriculture				16 311	4 296				10 911
Non-specified Others									
Non-energy			4 207	103 720		10 277			1 766
2014									
Indigenous Production	485 031		549 938						
Import	6 314	48	407 371	63 674	30 049	1 277	4 911	1	10 900
Export	-56 604	- 592	-52 042	-141 355	-25 309		- 8 126	- 478	-54 858
International Marine Bunkers				-14 438					-4 327
International Aviation Bunkers				-22 446			-22 446		
Stock Changes	-2 537	47	-7 031	-1 393	- 817	- 44	157	- 32	- 570
Total Primary Energy Supply	432 205	- 497	898 237	-115 955	3 924	1 233	-25 504	- 509	-48 854
Transfers			-58 513	60 459	1 313		- 552	- 1	413
Total Transformation Sector	-411 445	6 346	-845 622	832 194	368 620	9 394	76 052	813	246 011
Main Activity Producer	-392 624	- 227		-7 057			- 74	- 141	-1 924
Autoproducers	-2 389	- 768		-2 352			- 1	- 1	- 57
Gas Processing	-1 934								
Petroleum Refineries			-850 405	841 603	368 620	9 394	76 127	955	247 992
Coal Transformation	-14 498	7 341							
Other Transformation			4 783						
Loss & Own Use	- 40	-1 475		-35 168	-1 497		- 36	- 1	-7 140
Discrepancy	-2 888		8 202	587				- 1	304
Total Final Consumption	17 832	4 374	2 304	742 117	372 360	10 627	49 960	301	190 734
Total Final Energy Consumption	17 832	4 374		639 601	372 360		49 960	301	187 382
Industry Sector	16 979	4 374		21 442	365				14 660
Iron and Steel	175	3 511		273					116
Chemical & Petrochemical	3 661			2 510					1 522
Non-metallic Minerals	5 930			1 623					477
Other Industries	7 213	863		17 036	365				12 545
Transport Sector				567 600	367 096		49 960		148 525
Domestic Air Transport				50 475	515		49 960		
Road				496 984	362 017				133 438
Rail				11 653					11 653
Inland Waterways				8 488	4 564				3 434
Other transport									
Other Sector	853			50 559	4 899			301	24 197
Residential				22 469				260	8 016
Commerce and Public Services	853			12 899	957			41	5 901
Agriculture				15 191	3 942				10 280
Non-specified Others									
Non-energy			2 304	102 516		10 627			3 352

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					636 487	21 588	216 378	31 356	99 354			2018 527
11 655	5 061			5 748	62 878				2 288	6 516		560 620
-17 582	-24 375		-1 654	-32 245	-40 425				-2 198	- 783		-302 881
-6 020									- 167			-13 107
												-23 580
-1 210	-2 087		105	- 696	-12 550				- 520			-51 304
-13 157	-21 401		-1 549	-27 193	646 390	21 588	216 378	31 356	98 757	5 734		2188 277
-1 327	60 384		28 874	- 47								2 005
19 657	8 027	15 410	126	83 292	-244 918	-21 588	-216 378	-28 799	-22 218	369 547	9 986	-511 206
-2 154				-2 688	-225 492	-21 463	-216 378	-27 873	-15 730	354 250	9 986	-487 391
- 34		-1 992		- 216	-16 246	- 125		- 926	-6 488	15 297		-13 487
					1 075							- 918
21 845	8 027	17 402	126	86 196								-2 132
					-4 255							-7 834
- 262	- 273	-14 249	- 5	-11 477	-57 783				- 97	-50 128	-4 529	556
-2 575		- 1	1	50	-10 528			1	- 25	- 3	- 1	-148 178
2 336	46 737	1 160	27 447	44 625	333 161			2 558	76 417	325 150	5 456	1520 138
2 336	25 424			2 868	317 788			2 558	76 417	325 150	5 456	1396 838
1 005	3 753			2 868	117 874				29 669	69 336	4 311	261 574
46	95				8 569				2	4 138	158	16 029
341	1 050				39 086				222	9 806	2 642	58 097
3	488			393	7 955				440	3 085	3	18 472
615	2 120			2 475	62 264				29 005	52 307	1 508	168 976
1 067	1 577				16 591				33 111	763		628 990
												52 983
	1 577					926			32 883	176		538 733
									176	587		12 652
1 067									52			8 957
					15 665							15 665
264	20 094				183 323			2 558	13 637	255 051	1 145	506 274
	13 485				108 387			491	10 554	120 539		261 170
263	5 506				73 487			2 067	1 973	116 915	1 145	208 637
1	1 103				1 449				1 110	3 276		22 146
										14 321		14 321
	21 313	1 160	27 447	41 757	15 373							123 300
					606 074	22 487	216 455	29 446	103 523			2012 954
11 228				5 308	62 255				1 344	5 720		546 726
-20 098				-32 486	-34 672				-2 207	-1 144		-288 616
-10 111									- 83			-14 521
												-22 446
565	- 537		- 4	- 111	-6 237				- 142			-17 293
-18 417	- 537		- 4	-27 287	627 420	22 487	216 455	29 446	102 436	4 576		2216 810
37	33 217		27 061	-1 029								1 946
20 607	12 754	15 728	124	82 091	-209 622	-22 487	-216 455	-26 969	-23 006	371 447	10 235	-535 384
-2 181				-2 737	-190 103	-22 372	-216 455	-26 372	-15 891	356 596	10 235	-504 270
- 83		-1 929		- 281	-16 250	- 115		- 597	-7 115	14 851		-14 735
					1 071							- 863
22 871	12 754	17 657	124	85 109								-8 802
					-4 340							-7 157
- 263	- 207	-14 129	- 8	-11 887	-57 658				- 252	-50 274	-4 642	443
- 23	1			306	-8 336				1	2	1	-149 509
1 941	45 228	1 599	27 173	42 194	351 804			2 478	79 180	325 750	5 593	1531 432
1 941	25 630			2 027	337 164			2 478	79 180	325 750	5 593	1411 972
808	3 582			2 027	120 600				29 987	70 609	4 419	268 410
62	95				9 232				2	3 986	162	17 341
232	756				40 927				303	9 549	2 708	59 658
28	476			642	7 582				436	2 741	3	18 315
486	2 255			1 385	62 859				29 246	54 333	1 546	173 096
490	1 529				17 206				31 616	654		617 076
												50 475
	1 529					823			30 977	76		528 860
									217	578		12 448
490									422			8 910
					16 383							16 383
643	20 519				199 358			2 478	17 577	254 487	1 174	526 486
	14 193				118 695			457	14 177	121 860		277 658
635	5 365				79 393			2 021	2 006	116 094	1 174	214 440
8	961				1 270				1 394	2 380		20 235
										14 153		14 153
	19 598	1 599	27 173	40 167	14 640							119 460

Major Energy Indicators of the United States

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	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	1915 051	2318 769	2215 222	2190 418	2156 518	2179 314	2216 810	2188 277
Indigenous Production	1652 506	1631 041	1723 239	1783 985	1818 508	1874 990	2012 954	2018 527
Import	452 497	841 952	725 440	701 494	637 655	585 428	546 726	560 620
Export	-110 605	-105 870	-192 059	-243 763	-265 932	-276 547	-288 616	-302 881
Final Energy Consumption	1174 463	1406 548	1377 073	1364 374	1352 561	1384 928	1411 972	1396 838
Industry	283 736	276 396	270 405	272 471	266 436	267 034	268 410	261 574
Transport	487 567	622 888	595 225	589 322	607 273	606 357	617 076	628 990
Residential	209 877	271 657	270 106	264 354	248 254	269 285	277 658	261 170
Commerce & Public Services	159 267	200 392	207 351	206 585	198 280	208 139	214 440	208 637
Others	34 016	35 215	33 986	31 642	32 318	34 113	34 388	36 467
Coal, Coal Products								
Primary Energy Supply	460 254	558 322	502 591	479 068	424 581	432 133	431 708	374 122
Indigenous Production	542 320	565 281	531 840	536 360	495 485	477 187	485 031	431 282
Import	2 119	19 598	11 440	8 233	5 819	5 056	6 362	6 048
Export	-67 987	-29 460	-48 240	-63 379	-74 210	-68 079	-57 196	-43 966
Transformation Sector	-409 628	-508 737	-471 403	-444 986	-391 617	-405 915	-405 099	-350 615
Power Generation	-396 005	-503 064	-462 776	-435 829	-382 402	-397 054	-396 008	-340 788
Final Energy Consumption	55 658	31 337	26 855	24 579	21 935	22 416	22 206	19 514
Industry	46 020	28 804	25 346	23 279	21 033	21 648	21 353	18 842
Transport								
Residential	1 487							
Commerce & Public Services	2 412	2 103	1 509	1 300	902	768	853	672
Others	5 739	430						
Crude Oil								
Primary Energy Supply	783 540	911 613	875 559	884 230	875 269	882 656	898 237	933 533
Indigenous Production	432 545	322 546	346 692	360 705	411 439	470 718	549 938	582 082
Import	351 036	599 496	539 779	531 316	484 353	438 535	407 371	407 354
Export	-2 100	-4 911	-9 302	-12 810	-16 705	-30 119	-52 042	-43 850
Transformation Sector	-755 277	-852 419	-818 682	-827 181	-820 286	-823 992	-845 622	-839 267
Petroleum Refineries	-755 277	-852 419	-818 682	-827 181	-824 578	-828 650	-850 405	-844 078
Petroleum Products								
Primary Energy Supply	-26 698	17 567	-69 945	-98 211	-94 868	-110 928	-115 955	-139 581
Import	62 246	117 924	83 347	76 405	68 343	66 149	63 674	75 536
Export	-36 778	-53 107	-105 624	-129 141	-134 752	-139 211	-141 355	-171 659
Transformation Sector	726 219	828 105	828 223	839 680	803 003	814 197	832 194	833 044
Power Generation	-27 245	-33 287	-10 843	-8 775	-7 516	-8 526	-9 409	-8 902
Petroleum Refineries	753 819	861 392	839 066	848 455	810 519	822 723	841 603	841 946
Final Energy Consumption	578 135	696 928	636 141	624 804	628 646	626 847	639 601	649 955
Industry	44 253	35 153	30 208	30 430	21 193	22 846	21 442	21 542
Transport	471 802	600 123	554 069	546 362	557 309	554 478	567 600	578 525
Residential	26 368	28 784	20 959	19 500	22 616	21 493	22 469	21 199
Commerce & Public Services	21 308	16 696	15 291	14 188	13 021	12 479	12 899	12 378
Others	14 404	16 172	15 614	14 324	14 507	15 551	15 191	16 311
Natural Gas								
Primary Energy Supply	438 232	507 071	555 918	568 601	594 736	606 384	627 420	646 390
Indigenous Production	418 088	421 439	494 647	530 907	558 216	563 865	606 074	636 487
Import	35 160	100 845	86 893	80 595	72 694	66 714	62 255	62 878
Export	-1 975	-16 689	-26 145	-34 611	-37 082	-36 046	-34 672	-40 425
Transformation Sector	-88 617	-153 481	-183 827	-188 590	-230 471	-210 170	-209 622	-244 918
Power Generation	-89 736	-154 612	-185 033	-189 723	-227 342	-206 878	-206 353	-241 738
Final Energy Consumption	289 104	298 001	309 755	310 529	298 162	325 707	337 164	317 788
Industry	109 886	100 532	109 857	111 331	117 002	115 486	120 600	117 874
Transport	15 410	14 160	16 302	16 633	17 665	20 097	17 206	16 591
Residential	102 556	112 617	110 931	109 232	96 439	113 820	118 695	108 387
Commerce & Public Services	61 252	68 854	71 173	72 025	65 814	75 033	79 393	73 487
Others		1 838	1 492	1 308	1 242	1 271	1 270	1 449
Electricity								
Power Generation	275 442	367 124	374 475	372 090	367 296	368 692	371 447	369 547
Thermal	157 881	249 726	250 624	241 909	239 048	236 250	235 396	234 421
Hydro	23 491	23 430	22 555	27 669	23 952	23 294	22 487	21 588
Nuclear	52 597	69 722	72 148	70 641	68 897	70 692	71 430	71 405
Others	41 474	24 246	28 772	31 490	35 011	38 063	41 733	41 733
Final Energy Consumption	226 487	320 911	325 796	325 029	320 502	324 011	325 750	325 150
Industry	74 522	77 240	71 074	73 233	72 748	72 798	70 609	69 336
Transport	355	534	552	564	588	622	654	763
Residential	79 466	116 894	124 331	122 361	118 215	119 629	121 860	120 539
Commerce & Public Services	72 144	109 657	114 397	114 213	113 851	115 102	116 094	116 915
Others		16 586	15 442	14 658	15 100	15 860	16 533	17 597

Major Economic Indicators of the United States

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	249.62	295.52	309.35	311.66	314.00	316.20	318.56	320.90
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	9 064	14 408	14 964	15 204	15 542	15 803	16 177	16 597
Real Term (Billions of 2010 Price and 2010 PPP)	9 064	14 408	14 964	15 204	15 542	15 803	16 177	16 597
Nominal (Billions of Current USD)	5 980	13 094	14 964	15 518	16 155	16 692	17 393	18 037
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	36 312	48 756	48 374	48 783	49 498	49 977	50 783	51 722
Real Term (2010 Price and 2010 PPP)	36 312	48 756	48 374	48 783	49 498	49 977	50 783	51 722
Nominal (Current USD)	23 954	44 308	48 374	49 791	51 450	52 787	54 599	56 207
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	5 980	13 094	14 964	15 518	16 155	16 692	17 393	18 037
Household Final Consumption Expenditure	3 826	8 794	10 202	10 689	11 051	11 361	11 863	12 284
General Government Final Consumption Expenditure	948	1 980	2 522	2 531	2 544	2 524	2 558	2 605
Gross Fixed Capital Formation	1 269	2 981	2 691	2 836	3 064	3 206	3 416	3 577
Stock Change	15	60	62	42	62	92	65	93
Exports of Goods and Services	552	1 309	1 852	2 106	2 198	2 277	2 375	2 264
Imports of Goods and Services	630	2 030	2 365	2 686	2 764	2 769	2 884	2 786
Real GDP & its Components (Billions of 2005 USD) *1								
Gross Domestic Product	9 064	14 408	14 964	15 204	15 542	15 803	16 177	16 597
Household Final Consumption Expenditure	5 766	9 689	10 202	10 433	10 585	10 740	11 048	11 400
General Government Final Consumption Expenditure	1 836	2 310	2 522	2 455	2 434	2 376	2 359	2 398
Gross Fixed Capital Formation	1 658	3 249	2 753	2 832	3 028	3 148	3 255	3 402
Stock Change	19	68	62	40	58	83	61	89
Exports of Goods and Services	672	1 441	1 852	1 979	2 047	2 118	2 209	2 211
Imports of Goods and Services	763	2 290	2 365	2 494	2 550	2 578	2 692	2 815
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	1.1	1.1	1.1	1.0	1.1	1.1	1.1
Industry	N.A.	20.9	19.8	19.6	19.6	19.7	19.7	19.6
Services, etc.	N.A.	75.5	76.1	76.1	76.0	75.6	75.5	75.5
Industrial Production Index (2010=100) *2	68.3	105.5	100.0	103.0	106.0	108.0	112.0	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	393.59	901.08	1,278.50	1,482.51	1,545.70	1,579.59	1,620.53	1,504.91
Imports, c.i.f.	516.99	1,732.71	1,969.18	2,266.02	2,336.52	2,329.06	2,412.55	2,307.95
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.11	-0.78	-0.65	-0.74	-0.74	-0.70	-0.74	N.A.
Current Account	-0.08	-0.75	-430.70	-444.59	-426.20	-349.54	-373.80	-434.60
Overall Balance	-0.03	-0.05	0.00	0.07	0.00	0.02	-0.15	N.A.
Foreign Exchange Rate (USD/USD) *1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PPP conversion factor, GDP (USD/International Dollar) *1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Price Indices								
GDP Deflator (2005=100) *3	66.0	90.9	100.0	102.1	103.9	105.6	107.5	108.7
Producer Prices Index (2010=100) *2	62.9	85.2	100.0	108.8	109.4	110.1	111.1	N.A.
Consumer Price Index *1	59.9	89.6	100.0	103.2	105.3	106.8	108.6	N.A.
Growth Rate (%) *3								
Real GDP	1.92	3.35	2.53	1.60	2.22	1.68	2.37	2.60
Population	1.14	0.93	0.84	0.75	0.75	0.70	0.75	0.73
Price								
Producer Prices Index	3.56	7.32	6.84	8.83	0.55	0.62	0.94	N.A.
Consumer Price Index	5.40	3.39	1.64	3.16	2.07	1.46	1.62	N.A.

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: USD means United States Dollar

: PPP means Purchasing Power Parity

Viet Nam

Energy Balance Table of Viet Nam

	Coal	Coal Products	Crude Oil & NGL	Total	Petroleum Products			
					Gasoline	Naphtha	Jet Fuel	Kerosene
2015								
Indigenous Production	23 231		19 710					
Import	3 879		39	11 361	2 605		1 390	42
Export	- 979		-9 673	-1 266	- 255		- 383	
International Marine Bunkers								
International Aviation Bunkers								
Stock Changes	-1 523			- 4	- 3		- 2	- 9
Total Primary Energy Supply	24 608		10 076	10 092	2 347		1 005	33
Transfers			- 156	170				
Total Transformation Sector	-13 200		-9 920	6 753	2 884		202	3 088
Main Activity Producer	-13 200			- 256				- 41
Autoproducers								
Gas Processing								
Petroleum Refineries			-9 920	7 009	2 884		202	3 129
Coal Transformation								
Other Transformation								
Loss & Own Use								
Discrepancy								
Total Final Consumption	11 409			17 015	5 232		1 207	33
Total Final Energy Consumption	11 409			15 607	5 232		1 207	33
Industry Sector	9 910			1 690			12	1 151
Iron and Steel	431			69				54
Chemical & Petrochemical	224			79			1	63
Non-metallic Minerals	5 405			103			1	59
Other Industries	3 849			1 439			11	975
Transport Sector				11 826	5 109		1 207	5 308
Domestic Air Transport				6 515			1 207	5 308
Road				5 109	5 109			
Rail								
Inland Waterways				202				
Other transport								
Other Sector	1 499			2 091	123		20	665
Residential	1 112			854			15	12
Commerce and Public Services	371			819			5	357
Agriculture	17			419	123			296
Non-specified Others								
Non-energy				1 408				
2014								
Indigenous Production	22 998		18 355					
Import	1 734			10 593	2 557		1 246	30
Export	-4 069		-9 492	-1 167	- 189		- 440	
International Marine Bunkers								
International Aviation Bunkers								
Stock Changes	- 706			26	21		- 1	- 3
Total Primary Energy Supply	19 957		8 863	9 453	2 389		804	27
Transfers			- 255	278				
Total Transformation Sector	-8 501		-8 608	5 861	2 318		100	2 893
Main Activity Producer	-8 501			- 175				- 56
Autoproducers								
Gas Processing								
Petroleum Refineries			-8 608	6 036	2 318		100	2 950
Coal Transformation								
Other Transformation								
Loss & Own Use								
Discrepancy								
Total Final Consumption	11 456			15 592	4 707		904	27
Total Final Energy Consumption	11 456			14 368	4 707		904	27
Industry Sector	9 933			1 651			7	1 083
Iron and Steel	432			67				51
Chemical & Petrochemical	225			76				59
Non-metallic Minerals	5 417			101			1	56
Other Industries	3 858			1 407			6	917
Transport Sector				10 721	4 592		904	4 993
Domestic Air Transport				5 897			904	4 993
Road				4 592	4 592			
Rail								
Inland Waterways				232				
Other transport								
Other Sector	1 524			1 996	116		20	626
Residential	1 123			827			17	15
Commerce and Public Services	381			737			3	294
Agriculture	20			432	116			316
Non-specified Others								
Non-energy				1 224				

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
					9 378	4 827		10	11 925			69 081
704	854			1 266						206		15 485
- 126				- 27						- 70		-11 987
- 3	3											-1 527
574	857			1 239	9 378	4 827		10	11 925	136		71 052
	170											14
- 78	489			169	-7 887	-4 827		- 10	- 59	13 925		-15 224
- 215					-7 887	-4 827		- 10	- 59	13 925		-12 313
136	489			169								-2 911
										- 557		- 557
										-1 166		-1 166
496	1 515			1 408	1 491				11 866	12 338		54 119
496	1 515				1 491				11 866	12 338		52 711
294	232				1 491				3 735	6 627		23 454
10	5									475		976
12	3				1 491					420		2 214
18	25								1 047	1 405		7 960
254	199								2 688	4 327		12 303
202												11 826
												6 515
												5 109
202												202
	1 283								8 130	5 711		17 432
	826								8 130	4 332		14 428
	457									1 178		2 368
										200		636
				1 408								1 408
					8 937	5 146		7	12 745			68 188
669	794			1 104						200		12 527
- 121				- 22						- 76		-14 804
2	- 2											- 679
550	792			1 083	8 937	5 146		7	12 745	124		65 232
	278											23
19	389			141	-7 478	-5 146		- 7	- 49	12 317		-11 612
- 118					-7 478	-5 146		- 7	- 49	12 317		-9 040
137	389			141								-2 572
										-1 395		-1 395
569	1 459			1 224	1 458				12 696	11 045		52 248
569	1 459				1 458				12 696	11 045		51 024
337	224				1 458				3 662	5 950		22 655
12	5									427		926
13	3				1 458					377		2 137
21	24								1 026	1 262		7 807
291	192								2 636	3 884		11 785
232												10 721
												5 897
												4 592
232												232
	1 235								9 034	5 095		17 649
	795								9 034	3 930		14 914
	440									1 003		2 121
										163		615
				1 224								1 224

Major Energy Indicators of Viet Nam

	1990	2005	2010	2011	2012	2013	2014	2015
Total								
Primary Energy Supply	5 414	40 575	57 575	57 810	58 760	59 578	65 232	71 052
Indigenous Production	5 811	59 997	65 039	67 412	68 460	67 488	68 188	69 081
Import	2 947	12 331	13 450	13 449	11 932	10 764	12 527	15 485
Export	-3 125	-30 064	-21 315	-20 416	-19 990	-17 299	-14 804	-11 987
Final Energy Consumption	4 184	35 382	45 604	47 861	48 600	49 597	51 024	52 711
Industry	1 713	11 207	17 833	19 001	19 626	20 739	22 655	23 454
Transport	1 412	6 898	10 071	10 817	10 702	10 527	10 721	11 826
Residential	481	15 068	15 470	15 531	15 815	15 707	14 914	14 428
Commerce & Public Services	334	1 665	1 650	1 888	1 839	2 021	2 121	2 368
Others	244	545	580	624	618	603	615	636
Coal, Coal Products								
Primary Energy Supply	2 212	7 082	14 730	15 605	15 785	17 239	19 957	24 608
Indigenous Production	2 597	18 142	24 646	26 102	23 734	22 985	22 998	23 231
Import		57	656	766	963	1 272	1 734	3 879
Export	- 442	-10 072	-11 104	-9 611	-8 521	-7 169	-4 069	- 979
Transformation Sector		-2 132	-4 837	-5 510	-6 106	-6 680	-8 501	-13 200
Power Generation	- 888	-2 132	-4 837	-5 510	-6 106	-6 680	-8 501	-13 200
Final Energy Consumption	1 324	4 950	9 894	10 095	9 678	10 559	11 456	11 409
Industry	1 019	3 734	8 306	8 560	8 299	8 953	9 933	9 910
Transport		14						
Residential	207	861	1 204	1 137	1 084	1 190	1 123	1 112
Commerce & Public Services	19	333	364	378	277	395	381	371
Others	64	22	20	20	18	21	20	17
Crude Oil								
Primary Energy Supply		674	7 232	6 683	6 824	7 578	8 863	10 076
Indigenous Production	2 750	19 609	16 010	16 226	17 808	17 834	18 355	19 710
Import								39
Export	-2 664	-18 290	-8 279	-8 536	-9 643	-8 709	-9 492	-9 673
Transformation Sector			-6 968	-6 415	-6 534	-7 260	-8 608	-9 920
Petroleum Refineries			-6 968	-6 415	-6 534	-7 260	-8 608	-9 920
Petroleum Products								
Primary Energy Supply	2 737	11 859	10 831	10 104	9 109	7 892	9 453	10 092
Import	2 947	12 274	12 312	12 257	10 738	9 178	10 593	11 361
Export	- 19	- 415	-1 850	-2 175	-1 721	-1 306	-1 167	-1 266
Transformation Sector		- 678	4 628	5 046	5 637	6 761	5 861	6 753
Power Generation	- 381	- 678	-1 161	- 594	- 127	- 145	- 175	- 256
Petroleum Refineries			5 789	5 640	5 763	6 906	6 036	7 009
Final Energy Consumption	2 299	11 253	13 882	14 794	14 334	13 964	14 368	15 607
Industry	449	2 499	1 798	1 867	1 612	1 441	1 651	1 690
Transport	1 393	6 898	10 071	10 817	10 702	10 527	10 721	11 826
Residential	76	727	859	886	865	867	827	854
Commerce & Public Services	265	958	675	712	684	679	737	819
Others	117	172	479	511	471	449	432	419
Natural Gas								
Primary Energy Supply	3	4 649	8 123	7 560	8 253	8 522	8 937	9 378
Indigenous Production	3	5 935	8 123	7 560	8 253	8 522	8 937	9 378
Import								
Export		-1 286						
Transformation Sector		-4 549	-7 631	-6 711	-6 815	-7 062	-7 478	-7 887
Power Generation	- 3	-4 549	-7 631	-6 711	-6 815	-7 062	-7 478	-7 887
Final Energy Consumption		100	492	849	1 438	1 460	1 458	1 491
Industry		100	492	849	1 438	1 460	1 458	1 491
Transport								
Residential								
Commerce & Public Services								
Others								
Electricity								
Power Generation	746	4 598	8 162	8 924	10 112	10 950	12 317	13 925
Thermal	285	3 064	5 777	5 382	5 533	6 432	7 114	9 043
Hydro	462	1 505	2 369	3 519	4 540	4 468	5 146	4 827
Nuclear								
Others		29	15	22	38	50	56	56
Final Energy Consumption	532	3 967	7 461	8 140	9 064	9 988	11 045	12 338
Industry	245	1 870	3 919	4 307	4 757	5 295	5 950	6 627
Transport	5							
Residential	198	1 674	2 850	2 942	3 300	3 613	3 930	4 332
Commerce & Public Services	50	374	611	798	878	946	1 003	1 178
Others	34	49	81	93	128	134	163	200

Major Economic Indicators of Viet Nam

	1990	2005	2010	2011	2012	2013	2014	2015
Population (Millions) *1	66.02	82.39	86.93	87.86	88.81	89.76	90.73	91.71
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	29.5	85.4	115.9	123.2	129.6	136.7	144.8	154.5
Real Term (Billions of 2010 Price and 2010 PPP)	97.1	281.3	382.1	406.0	427.3	450.4	477.4	509.3
Nominal (Billions of Current USD)	6.5	57.6	115.9	135.5	155.8	171.2	186.2	193.2
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	446	1 036	1 334	1 402	1 460	1 522	1 596	1 685
Real Term (2010 Price and 2010 PPP)	1 471	3 414	4 396	4 620	4 811	5 018	5 262	5 553
Nominal (Current USD)	98	699	1 334	1 543	1 755	1 908	2 052	2 107
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	41 955	914 001	2157 828	2779 881	3245 419	3584 262	3937 856	4192 862
Household Final Consumption Expenditure	35 559	598 567	1436 289	1844 377	2093 261	2346 160	2591 337	2849 540
General Government Final Consumption Expenditure	5 177	49 952	129 313	164 323	192 362	220 642	246 711	265 545
Gross Fixed Capital Formation	N.A.	285 841	704 401	745 494	785 337	847 475	938 452	1034 748
Stock Change	N.A.	22 702	65 810	81 537	98 823	108 650	118 180	125 699
Exports of Goods and Services	15 120	582 214	1553 687	2206 971	2597 264	2997 380	3402 495	3764 320
Imports of Goods and Services	18 996	612 521	1730 902	2321 858	2483 567	2920 030	3273 530	3731 151
Real GDP & its Components (Billions of 2010 VND) *1								
Gross Domestic Product	548 308	1588 646	2157 828	2292 483	2412 778	2543 596	2695 796	2875 856
Household Final Consumption Expenditure	N.A.	1022 157	1436 289	1495 133	1568 084	1649 323	1750 249	1913 547
General Government Final Consumption Expenditure	N.A.	84 251	129 313	138 524	148 481	159 261	170 409	182 270
Gross Fixed Capital Formation	N.A.	412 327	704 401	649 365	661 526	696 578	761 164	832 455
Stock Change	N.A.	31 434	65 810	68 179	73 051	78 036	82 390	87 354
Exports of Goods and Services	73 737	1061 162	1553 687	1721 244	1991 636	2337 663	2607 900	2937 635
Imports of Goods and Services	91 438	1049 910	1730 902	1801 807	1965 677	2306 613	2601 967	3073 334
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	34	22	18	18	18	17	17	16
Industry	25	38	32	33	33	33	33	34
Services, etc.	42	N.A.	37	37	38	38	38	38
Industrial Production Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	2.40	32.44	72.24	96.91	114.53	132.03	150.22	162.11
Imports, c.i.f.	2.75	36.76	84.84	106.75	113.78	132.03	147.85	166.10
Balance of Payments (Billions of Current USD) *1								
Trade Balance	N.A.	-2.44	-5.14	-0.45	9.89	8.73	N.A.	N.A.
Current Account	N.A.	-0.56	-4.28	0.24	9.43	7.75	9.36	0.91
Overall Balance	N.A.	2.53	1.93	6.63	17.34	9.32	N.A.	N.A.
Foreign Exchange Rate (VND/USD) *1	6 483	15 859	18 613	20 510	20 828	20 933	21 148	21 698
PPP conversion factor, GDP (VND/International Dollar) *1	655	3 575	5 647	6 709	7 308	7 534	7 672	7 576
Price Indices								
GDP Deflator (2010=100) *3	7.7	57.5	100.0	121.3	134.5	140.9	146.1	145.8
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2010=100)	N.A.	59.9	100.0	118.7	129.5	138.0	143.6	N.A.
Growth Rate (%) *3								
Real GDP	5.10	7.55	6.42	6.24	5.25	5.42	5.98	6.68
Population	1.92	1.17	1.05	1.07	1.08	1.07	1.08	1.08
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	N.A.	8.28	8.86	18.68	9.09	6.59	4.09	N.A.

Source *1 : World Development Indicators , World Bank

*2 : International Financial Statistics , International Monetary Fund

*3 : Calculated from *1 and *2 by the Coordinating Agency

Note : N.A. means "not available"

: VND means Dong, USD means United States Dollar

: PPP means Purchasing Power Parity

APEC Region

Primary Energy Supply Table in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	381 327	18 194	471 330	12 906	2 424 581	65	445 243	24 405	51 292
Import	48 325	335	85 249	25 066	543 408	31 135	51 876	436 030	299 783
Export	- 297 887	- 14 411	- 284 423	- 1 078	- 58 268	- 803	- 263 941	- 17 645	- 62 776
International Marine Bunkers	- 757		- 175	- 128	- 9 227	- 8 741		- 4 230	- 9 430
International Aviation Bunkers	- 3 890	- 77	- 864	- 567	- 7 799	- 6 181		- 6 333	- 4 407
Stock Change	- 1 812	- 6	- 926	- 86	4 876	- 1 416	- 1 422	- 2 149	- 1 906
Total	125 307	4 034	270 192	36 113	2 897 571	14 059	231 757	430 078	272 559
Coal & Coal Products									
Indigenous Production	298 581		30 609	2 090	1 858 627		271 401	671	785
Import	167		5 105	5 676	100 492	7 044	1 769	117 965	81 128
Export	- 254 000		- 18 206	- 589	- 9 790		- 215 120	- 439	
Stock Change	- 1 840		911	- 12	13 821	- 350	- 7 003	- 959	- 1 077
Total	42 909		18 418	7 165	1 963 150	6 694	51 047	117 238	80 836
Crude oil & Petroleum Products									
Indigenous Production	18 090	6 732	226 233	296	217 050		44 906	517	658
Import	43 022	335	62 123	16 258	388 100	20 122	50 107	214 521	179 712
Export	- 14 605	- 6 451	- 193 544	- 489	- 43 986	- 701	- 18 060	- 17 206	- 62 776
International Marine Bunkers	- 757		- 175	- 128	- 9 227	- 8 741		- 4 230	- 9 430
International Aviation Bunkers	- 3 890	- 77	- 864	- 567	- 7 799	- 6 181		- 6 333	- 4 407
Stock Change	28	98	558	- 76	- 8 945	- 1 066	5 582	- 393	- 1 079
Total	41 888	636	94 332	15 294	535 193	3 433	82 534	186 876	102 682
Natural Gas									
Indigenous Production	56 363	11 461	139 112	846	119 795		67 294	2 409	169
Import	5 136		16 297	3 132	54 283	2 953		103 544	38 933
Export	- 29 282	- 7 959	- 65 988		- 2 888		- 30 761		
Stock Change		- 104	- 2 395	2				- 797	234
Total	32 217	3 398	87 026	3 980	171 190	2 953	36 533	105 156	39 335
Nuclear Power									
Indigenous Production			26 431		44 508			1 162	42 938
Hydro Power									
Indigenous Production	1 149		32 732	2 054	95 844		1 182	7 207	185
Geothermal, Solar, etc									
Indigenous Production	1 856		2 566	320	16 309	1	8 643	6 169	643

Primary Energy Supply Table in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	365 727	17 619	469 849	13 476	2 448 934	64	445 308	22 321	49 054
Import	49 494	399	80 405	24 940	532 231	28 340	53 321	437 469	291 870
Export	- 284 538	- 13 715	- 265 998	- 2 145	- 47 903	- 607	- 272 906	- 16 110	- 59 025
International Marine Bunkers	- 721		- 364	- 198	- 7 154	- 7 696		- 3 784	- 8 474
International Aviation Bunkers	- 3 915	- 76	- 821	- 655	- 7 171	- 5 873		- 6 391	- 4 286
Stock Change	- 793	- 74	- 4 258	- 177	- 32 411	146	2 556	- 229	- 787
Total	125 255	4 154	278 818	35 242	2 886 526	14 375	228 279	433 276	268 345
Coal & Coal Products									
Indigenous Production	285 440		35 374	2 769	1 905 066		269 361	750	778
Import	126		5 428	5 644	124 791	8 685	1 436	116 977	79 523
Export	- 242 832		- 20 603	- 1 580	- 9 114		- 224 600	- 393	
Stock Change	- 1 223		- 261	- 223	- 19 614	- 545	- 1 403	854	1 398
Total	41 512		19 941	6 610	2 001 129	8 140	44 794	118 188	81 698
Crude oil & Petroleum Products									
Indigenous Production	19 081	6 708	219 948	435	213 965		47 140	560	783
Import	43 404	399	54 798	16 382	354 331	16 506	51 884	218 804	168 344
Export	- 14 530	- 6 294	- 174 165	- 565	- 34 906	- 501	- 17 709	- 15 717	- 59 025
International Marine Bunkers	- 721		- 364	- 198	- 7 154	- 7 696		- 3 784	- 8 474
International Aviation Bunkers	- 3 915	- 76	- 821	- 655	- 7 171	- 5 873		- 6 391	- 4 286
Stock Change	430	- 109	- 2 192		- 12 797	691	3 959	- 1 085	- 1 003
Total	43 749	629	97 207	15 399	506 269	3 126	85 274	192 387	96 335
Natural Gas									
Indigenous Production	52 905	10 910	137 536	664	115 832		67 627	2 699	289
Import	5 964		18 002	2 914	52 529	2 258		101 687	44 003
Export	- 27 176	- 7 421	- 65 349		- 2 322		- 30 597		
Stock Change		35	- 1 805	46				3	- 1 166
Total	31 693	3 524	88 385	3 625	166 039	2 258	37 030	104 389	43 125
Nuclear Power									
Indigenous Production			27 958		34 539				40 761
Hydro Power									
Indigenous Production	1 581		32 892	1 987	90 399		1 303	6 800	237
Geothermal, Solar, etc									
Indigenous Production	1 616		2 162	195	13 553	1	8 634	5 184	497

Note: Primary energy in Indonesia, Thailand and Viet Nam exclude non-commercial biomass.

Primary Energy Supply Table in 2015 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total	
94 219	191 785	16 503	10 098	22 614	27 966	1 334 184	620	12 414	76 754	2 018 527	69 081	7 704 109	
46 343	70 665	7 848	1 910	8 199	29 913	27 604	168 320	117 529	75 689	560 620	15 485	2 651 333	
- 57 954	- 72 235	- 2 976	- 8 159	- 7 831	- 3 795	- 629 527	- 91 222	- 16 494	- 12 305	- 302 881	- 11 987	- 2 218 597	
- 346	- 850	- 336			- 27	- 15 612	- 43 484	- 1 098		- 13 107		- 107 548	
- 2 505	- 3 451	- 841			- 1 216	- 5 066	- 7 379	- 2 556	- 5 706	- 23 580		- 82 419	
347	1 452	391	- 16	1 087	121	- 1 851	- 1 243	- 825	- 3 517	- 51 304	- 1 527	- 61 731	
80 104	187 366	20 589	3 833	24 069	52 962	709 730	25 612	108 970	130 916	2 188 277	71 052	7 885 152	
1 612	7 986	1 935		170	3 913	200 270			3 859	431 282	23 231	3 137 022	
16 040	5 287	220		307	9 120	14 302	407	36 381	13 846	6 048	3 879	425 184	
- 156	- 2	- 977		- 177	- 1 639	- 99 746			- 16	- 43 966	- 979	- 645 801	
10	382	189		510	240	1 578		- 442	- 5 943	- 19 243	- 1 523	- 20 751	
17 506	13 654	1 367		810	11 634	116 402	407	35 939	11 746	374 122	24 608	2 895 653	
34 018	130 949	2 159	1 221	6 394	827	536 284		8	18 587	582 082	19 710	1 846 722	
22 588	35 070	7 628	1 910	7 592	20 624	5 503	158 527	63 235	47 323	482 890	11 400	1 838 589	
- 26 418	- 72 009	- 1 999	- 1 221	- 3 330	- 2 156	- 363 265	- 91 222	- 16 494	- 12 069	- 215 509	- 10 938	- 1 174 448	
- 346	- 850	- 336			- 27	- 15 612	- 43 484	- 1 098		- 12 940		- 107 381	
- 2 505	- 3 451	- 841			- 1 216	- 5 066	- 7 379	- 2 556	- 5 706	- 23 580		- 82 419	
451	924	157	- 16	685	- 119	- 1 107	- 1 155	- 395	2 394	- 18 991	- 4	- 22 470	
27 788	90 632	6 767	1 894	11 341	17 933	156 736	15 287	42 699	50 530	793 952	20 168	2 298 595	
56 477	34 356	4 042	8 427	11 419	2 877	524 178		299	28 486	636 487	9 378	1 713 876	
7 714	30 166					7 229	9 323	17 913	13 175	62 878		372 676	
- 31 198	- 24		- 6 939	- 4 320		- 164 926				- 40 425		- 384 709	
	146	45				- 2 332	- 88	9		- 12 550		- 17 830	
32 993	64 644	4 088	1 489	7 100	2 877	364 149	9 235	18 221	41 661	646 390	9 378	1 684 013	
	3 017					51 279		9 504		216 378		395 217	
1 197	2 650	2 110	87	2 004	745	14 447		350	334	21 588	4 827	190 692	
23	4 203	5 082	363	97	9 574	157	6	309	234	31 356	10	87 922	

Primary Energy Supply Table in 2014 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total	
87 821	208 303	16 952	2 772	24 082	27 564	1 319 316	649	13 585	80 813	2 012 954	68 188	7 695 350	
47 483	59 386	7 829	1 961	7 620	25 750	27 238	159 501	118 408	69 773	546 726	12 527	2 582 672	
- 54 612	- 74 321	- 3 275	- 2 006	- 8 805	- 4 656	- 598 077	- 85 697	- 16 988	- 11 066	- 288 616	- 14 804	- 2 125 872	
- 241	- 823	- 288			- 89	- 14 915	- 40 824	- 1 173		- 14 521		- 101 265	
- 2 525	- 3 245	- 841			- 1 040	- 5 662	- 7 214	- 2 400	- 4 757	- 22 446		- 79 318	
700	- 1 133	80	- 112	- 108	932	- 3 380	- 347	- 892	- 1 084	- 17 293	- 679	- 59 342	
78 626	188 163	20 454	2 615	22 788	48 460	724 520	26 068	110 540	133 679	2 216 810	65 232	7 912 224	
1 693	7 752	2 339		147	4 012	189 742			4 730	485 031	22 998	3 217 982	
13 695	5 094	236		378	8 013	15 906	396	36 811	13 188	6 362	1 734	444 423	
- 114	- 2	- 1 246		- 200	- 3 044	- 100 177		- 47	- 18	- 57 196	- 4 069	- 665 235	
- 16	- 191	69		515	1 661	- 1 526		88	- 4 860	- 2 490	- 706	- 28 473	
15 258	12 652	1 397		841	10 642	103 949	396	36 851	13 039	431 708	19 957	2 968 702	
31 043	144 821	2 079	819	7 506	975	528 660		- 66	17 417	549 938	18 355	1 810 167	
25 863	30 487	7 592	1 961	6 871	17 547	3 699	149 778	64 745	45 672	471 045	10 593	1 760 705	
- 22 518	- 74 052	- 2 029	- 787	- 3 981	- 1 612	- 340 883	- 85 697	- 16 941	- 10 883	- 193 397	- 10 659	- 1 086 852	
- 241	- 823	- 288			- 89	- 14 915	- 40 824	- 1 173		- 14 438		- 101 182	
- 2 525	- 3 245	- 841			- 1 040	- 5 662	- 7 214	- 2 400	- 4 757	- 22 446		- 79 318	
909	- 607	3	- 112	- 369	- 720	- 4 685	- 259	- 978	3 692	- 8 424	26	- 23 630	
32 531	96 578	6 515	1 882	10 027	15 060	166 211	15 784	43 186	51 140	782 282	18 316	2 279 887	
53 190	37 258	4 385	1 502	11 849	3 061	531 178		303	31 998	606 074	8 937	1 678 197	
7 924	23 622					7 061	9 283	16 853	9 754	62 255		364 108	
- 31 901	- 39		- 1 219	- 4 624		- 155 745				- 34 672		- 361 065	
	- 335	8				2 815	- 88	- 2		- 6 237		- 6 727	
29 213	60 506	4 392	283	7 225	3 061	385 308	9 195	17 154	41 753	627 420	8 937	1 674 513	
	2 522					47 464		11 047		216 455		380 746	
1 151	3 345	2 091	88	1 909	786	15 073		372	458	22 487	5 146	188 104	
20	3 867	4 891	363	25	8 879	136	3	277	213	29 446	7	79 969	

Final Energy Consumption Table in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	77 223	928	172 108	24 923	1 691 989	6 760	152 064	295 874	126 870
Coal & Coal Products	2 330		2 457	322	652 230		9 838	32 557	11 243
Crude oil & Petroleum Products	39 308	617	70 691	13 774	403 682	2 334	61 765	148 331	43 521
Natural Gas	12 705	19	44 374	1 384	109 575	601	13 163	30 089	20 498
Electricity	18 172	292	43 265	5 748	415 501	3 781	17 445	82 053	42 597
Others	4 708		11 321	3 695	111 002	44	49 853	2 845	9 011
Industry	24 001	153	42 517	10 601	1 018 791	351	39 098	133 459	49 129
Coal & Coal Products	2 323		2 451	319	543 887		9 838	31 952	10 588
Crude oil & Petroleum Products	4 488	136	4 902	3 933	82 661	104	3 622	51 633	3 482
Natural Gas	7 708		14 220	771	47 953	27	12 906	15 228	7 411
Electricity	6 612	17	14 488	3 635	279 867	221	5 511	32 952	22 563
Others	2 870		6 456	1 943	64 422		7 222	1 694	5 085
Transport	32 515	456	61 384	8 446	252 625	2 100	47 380	74 079	33 410
Coal & Coal Products	1				2 416				
Crude oil & Petroleum Products	31 531	456	55 586	8 340	220 410	2 024	47 328	72 134	31 637
Natural Gas	267		3 578	27	20 120		35	77	1 164
Electricity	470		444	79	9 680	71	18	1 867	191
Others	246		1 776			5			418
Agriculture	2 379		6 374		44 027			2 714	1 592
Coal & Coal Products					13 809				
Crude oil & Petroleum Products	2 130		4 700		17 717			2 279	499
Natural Gas	29		837		84				3
Electricity	220		837		8 943			289	1 002
Others					3 475			146	88
Residential & Commercial	18 328	313	58 968	5 623	274 184	4 309	63 267	84 254	40 188
Coal & Coal Products	6		6	3	70 337			605	655
Crude oil & Petroleum Products	1 159	18	5 503	1 291	44 944	207	8 496	20 916	5 610
Natural Gas	4 701	19	25 739	582	37 374	574	223	14 783	11 920
Electricity	10 870	275	24 693	2 025	83 310	3 489	11 916	46 945	18 583
Others	1 592		3 027	1 722	38 219	39	42 631	1 005	3 420

Final Energy Consumption Table in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	75 906	929	175 475	24 291	1 683 868	6 867	151 584	297 484	124 166
Coal & Coal Products	2 429		2 561	229	685 727		7 717	33 339	10 311
Crude oil & Petroleum Products	38 415	621	70 936	13 074	378 141	2 354	63 485	147 878	40 974
Natural Gas	12 690	19	46 237	1 184	109 031	689	13 355	30 244	22 213
Electricity	17 894	289	43 894	5 752	403 028	3 778	17 080	83 083	41 868
Others	4 478		11 847	4 052	107 941	47	49 948	2 939	8 800
Industry	24 191	137	43 858	10 553	1 048 861	352	38 189	133 737	49 238
Coal & Coal Products	2 424		2 549	227	578 710		7 717	32 754	9 586
Crude oil & Petroleum Products	4 479	119	5 036	3 827	78 223	102	4 423	49 883	3 457
Natural Gas	7 829		14 705	586	51 891	29	13 102	15 538	8 825
Electricity	6 835	17	14 682	3 727	275 238	220	5 668	33 664	22 326
Others	2 624		6 886	2 186	64 799		7 280	1 898	5 044
Transport	31 755	456	61 497	7 874	239 555	2 119	47 945	74 199	31 865
Coal & Coal Products					2 694				
Crude oil & Petroleum Products	30 805	456	55 750	7 782	209 802	2 045	47 904	72 270	30 107
Natural Gas	287		3 466	34	17 950		28	82	1 212
Electricity	411		410	58	9 109	69	13	1 847	172
Others	252		1 871			6			374
Agriculture	2 272		6 294		43 101			2 770	1 700
Coal & Coal Products					13 391				
Crude oil & Petroleum Products	2 030		4 634		17 554			2 400	748
Natural Gas	30		833		70				3
Electricity	212		827		8 715			294	927
Others					3 370			76	22
Residential & Commercial	17 688	308	60 962	5 632	259 671	4 396	62 710	85 357	39 193
Coal & Coal Products	5		12	2	69 694			585	725
Crude oil & Petroleum Products	1 101	17	5 516	1 273	40 093	207	8 418	21 904	4 731
Natural Gas	4 544	19	27 233	564	35 444	659	226	14 624	12 173
Electricity	10 436	271	25 172	1 958	78 877	3 488	11 398	47 279	18 204
Others	1 602		3 029	1 835	35 563	41	42 668	965	3 360

Notes: Energy consumption in Indonesia, Thailand and Viet Nam exclude non-commercial biomass.

Note: Coal = Coal & Coal Products, Oil = Crude Oil & Petroleum Products, Gas = Natural Gas/ LNG & Town Gas

Final Energy Consumption Table in 2015 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
43 076	114 483	12 667	1 587	18 335	29 655	377 582	10 499	46 661	75 399	1 396 838	52 711	4 728 232
1 777	3 769	607		726	2 218	12 060	151	6 869	4 403	19 514	11 409	774 478
25 106	67 985	5 876	1 253	10 058	14 025	88 481	5 020	16 406	35 225	649 955	15 607	1 719 021
4 823	13 446	1 614		1 730	50	108 291	1 241	3 142	6 070	317 788	1 491	692 095
11 369	22 141	3 365	334	3 638	5 831	62 463	4 087	19 954	15 598	325 150	12 338	1 115 122
	7 142	1 205		2 183	7 530	106 287		291	14 103	84 431	11 866	427 516
13 728	35 352	4 341	711	5 217	6 718	124 166	5 586	22 250	28 125	261 574	23 454	1 849 321
1 777	3 769	528		725	2 218	8 499	151	6 869	4 403	18 842	9 910	659 048
2 185	6 254	419	467	1 242	1 382	14 474	2 724	1 919	5 938	21 542	1 690	215 197
4 551	12 392	1 242		1 003	50	35 489	1 089	1 771	3 358	117 874	1 491	286 533
5 215	12 039	1 195	244	2 121	1 936	28 294	1 622	11 503	6 615	69 336	6 627	512 612
	898	957		127	1 132	37 410		189	7 811	33 980	3 735	175 931
20 900	51 096	4 815	637	7 942	10 194	93 863	2 411	12 161	25 595	628 990	11 826	1 382 825
												2 417
20 628	50 981	4 806	637	7 363	10 185	59 591	2 187	12 045	22 876	578 525	11 826	1 251 096
249	17	1		575		27 210	14		2 710	16 591		72 635
23	98	5		4	8	7 062	210	116	9	763		21 118
		3								33 111		35 559
230	3 995	707		49	213	8 375		167	3 979	22 146	636	97 583
		47				92					17	13 965
190	3 130	369		49	34	3 302		4	3 946	16 311	419	55 078
		35				1 107				1 449		3 544
40	865	239			179	1 398		164	33	3 276	200	17 684
		17				2 476				1 110		7 312
7 554	21 761	2 705		5 004	12 346	150 575	2 476	11 654	17 700	469 807	16 796	1 267 812
		32		1		3 468				672	1 482	77 267
1 440	7 620	212		1 280	2 265	10 540	109	2 089	2 466	33 577	1 673	151 414
23	1 037	336		153		44 485	136	1 372	1	181 874		325 332
6 091	6 860	1 897		1 514	3 684	25 689	2 231	8 092	8 942	237 454	5 511	510 070
	6 244	228		2 056	6 397	66 393		102	6 292	16 230	8 130	203 728

Final Energy Consumption Table in 2014 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
42 697	112 381	12 566	1 509	17 279	27 825	382 049	10 669	45 700	70 915	1 411 972	51 024	4 727 155
1 708	2 470	614		692	2 261	10 866	167	6 860	4 629	22 206	11 456	806 242
25 271	67 511	5 718	1 194	9 396	12 486	89 431	5 234	16 417	31 531	639 601	14 368	1 674 036
4 682	13 547	1 735		1 670	78	106 330	1 279	3 007	5 566	337 164	1 458	712 179
11 036	21 692	3 305	315	3 414	5 448	63 454	3 989	19 188	14 461	325 750	11 045	1 099 762
	7 161	1 194		2 106	7 553	111 968		228	14 728	87 251	12 696	434 936
12 739	33 807	4 469	663	4 854	6 508	125 884	5 752	21 733	26 889	268 410	22 655	1 883 477
1 708	2 470	543		692	2 261	8 247	167	6 860	4 629	21 353	9 933	692 829
1 550	5 751	420	435	1 249	1 205	13 764	2 863	2 220	4 966	21 442	1 651	207 066
4 411	12 435	1 372		906	78	37 175	1 127	1 657	2 740	120 600	1 458	296 464
5 070	12 241	1 189	228	1 972	1 843	28 698	1 595	10 869	5 871	70 609	5 950	508 512
	910	945		36	1 121	38 000		127	8 683	34 406	3 662	178 606
21 483	51 287	4 624	588	7 312	8 822	94 748	2 490	11 911	22 859	617 076	10 721	1 351 186
												2 694
21 210	51 173	4 615	588	6 761	8 813	60 383	2 263	11 797	20 024	567 600	10 721	1 222 868
250	17			549		26 603	17		2 826	17 206		70 527
22	97	5		3	10	7 762	210	114	9	654		20 975
		4								31 616		34 123
37	3 760	709		46	189	8 612		158	3 995	20 235	615	94 491
		39				84					20	13 534
1	2 898	389		46	31	3 789		4	3 959	15 191	432	54 106
		35				877				1 270		3 118
36	862	229			157	1 369		154	36	2 380	163	16 360
		17			1	2 493				1 394		7 372
7 453	21 645	2 658		4 950	12 141	151 973	2 406	11 475	17 093	492 098	17 034	1 276 844
		32				2 533				853	1 504	75 945
1 523	7 689	201		1 225	2 296	10 697	108	2 053	2 582	35 368	1 565	148 567
21	1 095	328		216		41 675	134	1 350	1	198 088		338 393
5 909	6 610	1 869		1 439	3 417	25 602	2 164	7 971	8 466	237 954	4 933	503 416
	6 251	228		2 071	6 429	71 466		101	6 045	19 835	9 034	210 523

Demand & Supply Table of Coal in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	285 440		35 374	2 769	1 905 066		269 361	750	778
Import	74		4 804	5 640	124 790	8 685	1 436	114 883	79 244
Export	- 242 283		- 20 563	- 1 478	- 3 329		- 224 600		
Stock Change	- 1 201		- 342	- 250	- 18 007	- 545	- 1 403	854	1 398
Primary Energy Supply	42 030		19 275	6 681	2 008 519	8 140	44 794	116 486	81 419
Main Activity Producer	- 37 265		- 15 383	- 5 647	- 819 437	- 8 140	- 37 076	- 53 999	- 46 367
Autoproducers					- 134 391			- 11 657	- 3 433
Coal Transformation	- 2 887		- 2 058	- 443	- 403 310		- 9	- 34 928	- 24 055
Refining									
Gas processing					- 4 838				
Other Transformation									
Final Energy Consumption	1 964		1 074	222	567 470		7 709	14 997	5 138

Demand & Supply Table of Crude Oil in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	19 081	6 691	219 948	435	213 965		47 140	560	783
Import	22 611	7	43 784	9 088	308 374		19 395	172 618	128 438
Export	- 12 448	- 6 209	- 151 541		- 600		- 16 807		- 143
Stock Change	80	- 89	- 1 408	32	- 3 757		3 556	- 672	- 582
Primary Energy Supply	29 324	400	110 784	9 555	517 983		53 284	172 505	128 494
Main Activity Producer					- 89			- 7 226	
Autoproducers					- 70				
Coal Transformation									
Refining	- 29 519	- 382	- 93 342	- 10 631	- 518 282		- 55 924	- 165 217	- 134 466
Gas processing									
Other Transformation	94		2 296		10 071		1 205		8 998
Final Energy Consumption	15				3 868				

Demand & Supply Table of Natural Gas in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	52 905	10 910	137 536	664	115 832		67 627	2 699	289
Import	5 964		18 002	2 914	52 529	2 258		101 687	44 003
Export	- 27 176	- 7 421	- 65 349		- 2 322		- 30 597		
Stock Change		35	- 1 805	46				3	- 1 166
Primary Energy Supply	31 693	3 524	88 385	3 625	166 039	2 258	37 030	104 389	43 125
Main Activity Producer	- 8 665	- 1 138	- 8 425	- 1 688	- 21 408	- 2 258	- 8 038	- 71 523	- 19 382
Autoproducers	- 2 742	- 174	- 5 438	- 15	- 5 786			- 3 734	- 752
Coal Transformation									
Refining									
Gas processing		- 248		12	773	274	- 2 655	4 201	
Other Transformation	- 85		- 3 036				- 749		
Final Energy Consumption	13 490	580	48 883	1 299	114 521	689	17 442	30 244	22 213

Demand & Supply Table of Coal in 2014 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
1 693	7 752	2 339		147	4 012	189 742			4 730	485 031	22 998	3 217 982
13 695	4 760	236		370	8 013	15 802	389	36 695	6 961	6 314	1 734	434 525
- 114	- 2	- 1 246		- 177	- 3 044	- 98 423			- 18	- 56 604	- 4 069	- 655 950
- 16	- 191	69		441	1 661	- 1 419		88	- 2 709	- 2 537	- 706	- 24 814
15 258	12 318	1 397		782	10 642	105 706	389	36 783	8 965	432 205	19 957	2 971 747
- 13 639	- 8 655	- 301		- 44	- 8 227	- 43 523	- 229	- 19 027	- 8 296	- 392 624	- 8 501	- 1 526 379
	- 42	- 5		- 158		- 13 251		- 5 282		- 2 389		- 170 608
	- 2 169	- 438				- 40 745		- 6 005		- 14 498		- 531 545
										- 1 934		- 6 772
1 708	1 613	575		633	2 261	3 851	160	5 263	672	17 832	11 456	644 599

Demand & Supply Table of Crude Oil in 2014 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
31 043	144 821	2 079	819	7 506	975	528 660		- 66	17 417	549 938	18 355	1 810 150
9 799	385	5 263	1 115	4 212	8 717	1 482	42 394	45 349	41 892	407 371		1 272 295
- 11 702	- 64 097	- 1 751	- 787	- 783	- 942	- 224 551	- 584		- 645	- 52 042	- 9 492	- 555 124
- 491	- 756	- 22	- 68	- 78	- 539	- 4 687	- 156	- 821	3 850	- 7 031		- 13 640
28 649	80 352	5 569	1 079	10 857	8 211	300 903	41 653	44 462	62 514	898 237	8 863	2 513 678
												- 7 315
												- 685
- 26 344	- 74 083	- 5 389	- 1 063	- 9 566	- 8 319	- 294 214	- 49 066	- 44 647	- 53 568	- 850 405	- 8 608	- 2 433 034
259	314			186	349			72	1 874	4 783		30 502
						110			5 891	2 304		12 188

Demand & Supply Table of Natural Gas in 2014 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
53 190	37 258	4 385	1 502	11 849	3 061	531 178		303	31 998	606 074	8 937	1 678 197
7 924	23 622					7 061		16 853	9 754	62 255		364 108
- 31 901	- 39		- 1 219	- 4 624		- 155 745				- 34 672		- 361 065
	- 335	8				2 815	- 88	- 2		- 6 237		- 6 727
29 213	60 506	4 392	283	7 225	3 061	385 308	9 195	17 154	41 753	627 420	8 937	1 674 513
- 14 964	- 24 733	- 1 214		- 3 580	- 2 872	- 147 843	- 7 257	- 12 694	- 22 576	- 190 103	- 7 478	- 577 838
- 1 541	- 7 175	- 38	- 147	- 195		- 77 688	- 811	- 68	- 1 804	- 16 250		- 124 358
- 1 649	520									1 071		2 299
- 1 537						- 2 069				- 4 340		- 11 815
8 734	14 191	3 010		1 670	78	137 807	1 279	3 007	8 212	351 804	1 458	780 610

Demand & Supply Table of Coal in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	298 581		30 609	2 090	1 858 627		271 401	671	785
Import	83		4 688	5 674	100 467	7 044	1 769	116 057	80 860
Export	- 253 391		- 18 156	- 561	- 3 170		- 215 120		
Stock Change	- 1 840		1 026		12 740	- 350	- 7 003	- 959	- 1 077
Primary Energy Supply	43 434		18 166	7 203	1 968 665	6 694	51 047	115 769	80 568
Main Activity Producer	- 38 742		- 15 307	- 6 556	- 778 958	- 6 694	- 41 207	- 54 723	- 47 280
Autoproducers					- 165 031			- 12 276	- 4 811
Coal Transformation	- 2 741		- 1 994	- 365	- 390 971		- 8	- 33 205	- 23 741
Refining									
Gas processing					- 6 480				
Other Transformation									
Final Energy Consumption	1 897		1 074	257	536 287		9 832	14 742	5 379

Demand & Supply Table of Crude Oil in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	18 090	6 714	226 233	296	217 050		44 906	517	658
Import	19 845	9	50 448	8 699	335 483		21 573	169 499	142 110
Export	- 12 725	- 6 366	- 170 858		- 2 866		- 17 584		- 346
Stock Change	263	95	- 252	- 37	- 6 238		448	- 785	- 1 426
Primary Energy Supply	25 473	452	105 572	8 957	543 429		49 343	169 231	140 997
Main Activity Producer					- 125			- 5 223	
Autoproducers					- 67				
Coal Transformation									
Refining	- 25 511	- 434	- 93 408	- 10 322	- 545 202		- 57 108	- 163 840	- 147 910
Gas processing									
Other Transformation	81		2 432		10 715		8 698		9 755
Final Energy Consumption	15				3 421				

Demand & Supply Table of Natural Gas in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	56 363	11 461	139 112	846	119 795		67 294	2 409	169
Import	5 136		16 297	3 132	54 283	2 953		103 544	38 933
Export	- 29 282	- 7 959	- 65 988		- 2 888		- 30 761		
Stock Change		- 104	- 2 395	2				- 797	234
Primary Energy Supply	32 217	3 398	87 026	3 980	171 190	2 953	36 533	105 156	39 335
Main Activity Producer	- 9 143	- 1 184	- 8 074	- 1 901	- 26 564	- 2 352	- 7 686	- 69 322	- 18 292
Autoproducers	- 2 741	- 166	- 6 508	- 39	- 7 040			- 3 928	- 875
Coal Transformation									
Refining									
Gas processing				8	1 298		- 2 763	1 341	
Other Transformation	- 73		- 3 205				- 624		
Final Energy Consumption	13 513	450	47 286	1 514	114 126	601	17 359	30 089	20 498

Demand & Supply Table of Coal in 2015 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
1 612	7 986	1 935		170	3 913	200 270			3 859	431 282	23 231	3 137 022
16 040	4 821	220		283	9 120	14 239	400	36 257	6 876	5 960	3 879	414 737
- 156	- 2	- 977		- 177	- 1 639	- 98 043			- 16	- 43 430	- 979	- 635 815
10	382	189		508	240	1 492		- 466	- 3 864	- 18 862	- 1 523	- 19 356
17 506	13 188	1 367		784	11 634	117 957	400	35 791	6 856	374 951	24 608	2 896 588
- 15 616	- 8 728	- 266		- 63	- 9 265	- 47 929	- 256	- 18 231	- 6 260	- 337 881	- 13 200	-1 447 162
	- 13	- 6		- 102		- 13 575		- 4 846		- 2 061		- 202 721
	- 1 747	- 445				- 47 289		- 5 973		- 14 290		- 522 770
										- 1 993		- 8 473
1 777	3 000	567		699	2 218	4 772	144	5 469	659	16 022	11 409	616 203

Demand & Supply Table of Crude Oil in 2015 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
34 018	130 949	2 159	1 221	6 394	827	536 284		8	18 587	582 082	19 710	1 846 703
8 387	401	5 446	625	4 333	10 471	3 543	39 950	44 172	44 903	407 354	39	1 317 291
- 16 103	- 62 281	- 1 804	- 1 221	- 402	- 832	- 247 532	- 754		- 136	- 43 850	- 9 673	- 595 331
57	368	149	- 11	309	- 36	- 2 280	- 156	- 224	4 880	- 12 054		- 16 930
26 360	69 437	5 951	614	10 633	10 431	290 014	39 040	43 956	68 235	933 533	10 076	2 551 736
												- 5 348
						- 594						- 661
- 24 948	- 65 964	- 5 809	- 614	- 8 978	- 10 420	- 283 459	- 45 988	- 43 994	- 58 817	- 844 078	- 9 920	-2 446 725
389	210			129	239				1 960	4 811		39 419
						91			6 236	4 207		13 970

Demand & Supply Table of Natural Gas in 2015 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
56 477	34 356	4 042	8 427	11 419	2 877	524 178		299	28 486	636 487	9 378	1 713 876
7 714	30 166					7 229	9 323	17 913	13 175	62 878		372 676
- 31 198	- 24		- 6 939	- 4 320		- 164 926				- 40 425		- 384 709
	146	45				- 2 332	- 88	9		- 12 550		- 17 830
32 993	64 644	4 088	1 489	7 100	2 877	364 149	9 235	18 221	41 661	646 390	9 378	1 684 013
- 12 662	- 26 525	- 1 174		- 3 700	- 2 719	- 139 601	- 7 267	- 13 756	- 25 547	- 225 492	- 7 887	- 610 848
- 1 646	- 8 061	- 39	- 128	- 221		- 65 785	- 889	- 62		- 16 246		- 114 374
- 5 480	489		- 9								1 075	- 4 042
						- 1 993				- 4 255		- 10 150
9 054	13 932	2 692		1 730	50	141 168	1 241	3 142	7 908	333 161	1 491	761 006

Power Generation Table in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	252 276	4 666	665 465	75 387	5 814 573	37 971	234 487	1 055 517	547 720
Thermal	217 871	4 665	141 306	42 515	4 284 188	37 921	210 240	910 996	371 960
Coal	158 610		65 977	28 002	4 122 709	25 815	130 508	334 757	236 586
Oil	6 799	47	8 148	3 156	21 975	206	39 532	84 041	12 518
Gas	52 462	4 618	67 181	11 357	139 504	11 900	40 200	492 198	122 856
Hydro	13 361		380 606	23 881	1 130 270	2	13 741	89 012	2 146
Nuclear			101 423		170 789			4 459	164 762
Geothermal		1					10 047	2 582	
Others	21 043	1	42 130	8 991	229 326	48	459	48 468	8 852
Main Activity Producer	226 787	4 196	594 367	69 166	5 143 483	37 924	234 487	883 336	518 003
Thermal	200 504	4 195	113 387	41 778	3 613 098	37 921	210 240	792 362	344 145
Coal	158 610		65 943	28 002	3 468 786	25 815	130 508	266 657	215 225
Oil	1 532	47	6 485	2 729	20 031	206	39 532	73 907	9 131
Gas	40 362	4 148	40 959	11 047	124 281	11 900	40 200	451 798	119 789
Hydro	13 361		349 553	23 837	1 130 270		13 741	81 057	2 146
Nuclear			101 423		170 789			4 459	164 762
Geothermal		1					10 047	2 384	
Others	12 921	1	30 004	3 551	229 326	2	459	3 074	6 950
Autoproducers	25 489	470	71 098	6 221	671 090	48		172 181	29 717
Thermal	17 367	470	27 919	737	671 090			118 634	27 815
Coal			34		653 922			68 100	21 361
Oil	5 267		1 663	427	1 944			10 133	3 387
Gas	12 100	470	26 222	310	15 223			40 401	3 067
Hydro			31 053	44		2		7 955	
Nuclear									
Geothermal								198	
Others	8 122		12 126	5 440		46		45 394	1 902

Power Generation Table in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	248 264	4 507	668 016	71 275	5 649 583	39 850	228 489	1 080 721	545 808
Thermal	211 256	4 505	138 701	40 926	4 268 649	39 705	203 054	947 441	379 353
Coal	151 849		66 248	26 006	4 136 477	28 005	120 266	322 768	231 500
Oil	5 013	44	8 300	4 708	21 487	100	38 027	132 745	17 395
Gas	54 394	4 461	64 153	10 212	110 685	11 600	44 761	491 928	130 458
Hydro	18 386		382 470	23 099	1 064 337	2	15 148	84 471	2 752
Nuclear			107 280		132 538				156 407
Geothermal		1					10 039	2 558	
Others	18 621	2	39 565	7 250	184 059	144	248	46 252	7 296
Main Activity Producer	223 909	4 010	602 121	65 363	5 112 673	39 803	228 489	806 973	512 894
Thermal	194 065	4 009	115 581	40 397	3 731 739	39 705	203 054	725 832	347 871
Coal	151 849		66 214	26 006	3 613 152	28 005	120 266	228 700	211 437
Oil	896	44	6 585	4 257	19 897	100	38 027	86 723	9 016
Gas	41 320	3 965	42 782	10 134	98 690	11 600	44 761	410 410	127 418
Hydro	18 386		351 417	22 940	1 064 337		15 148	76 394	2 752
Nuclear			107 280		132 538				156 407
Geothermal		1					10 039	2 399	
Others	11 457	2	27 843	2 026	184 059	98	248	2 348	5 864
Autoproducers	24 355	496	65 895	5 912	536 910	47		273 749	32 914
Thermal	17 191	496	23 120	529	536 910			221 609	31 482
Coal			34		523 324			94 068	20 063
Oil	4 117		1 715	451	1 591			46 022	8 379
Gas	13 074	496	21 371	78	11 995			81 518	3 040
Hydro			31 053	159		2		8 077	
Nuclear									
Geothermal								159	
Others	7 164		11 722	5 224		46		43 905	1 432

Power Generation Table in 2015 (Continued)

GWh

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
150 123	311 138	44 148	4 324	48 066	82 413	1 065 623	50 415	258 020	184 350	4 291 530	161 923	15 340 136
135 175	251 636	8 748	2 890	23 524	61 450	698 401	48 864	207 861	170 073	2 882 404	105 609	10 818 298
63 474	33 808	1 880		302	36 686	158 550	603	119 064	28 993	1 470 997	56 469	7 073 790
1 739	31 577	1	2 401	1 565	5 886	10 102	352	12 689	1 014	38 837	992	283 577
69 962	186 251	6 867	489	21 657	18 878	529 749	47 909	76 108	140 066	1 372 570	48 148	3 460 931
13 924	30 815	24 535	1 012	23 301	8 665	167 993		7 505	3 838	251 018	56 123	2 241 747
	11 577					195 470		36 471		830 288		1 515 239
	6 331	7 855	422		11 044	457			1	18 727		57 467
1 024	10 779	3 010		1 242	1 254	3 302	1 551	6 183	10 438	309 093	191	707 385
145 137	262 704	42 745	917	45 546	82 413	993 627	44 866	218 698	148 298	4 118 635	161 923	13 977 257
130 610	212 385	7 930	257	21 730	61 450	630 719	43 315	172 326	143 815	2 758 087	105 609	9 645 863
63 474	33 461	1 213		220	36 686	146 101	603	84 961	25 000	1 454 960	56 469	6 262 693
1 556	25 540	1	257	470	5 886	5 090	26	11 575	989	29 999	992	235 982
65 580	153 384	6 716		21 040	18 878	479 528	42 686	75 790	117 826	1 273 128	48 148	3 147 188
13 924	30 051	24 527	661	22 710	8 665	166 498		7 505	3 838	249 564	56 123	2 198 031
	11 577					195 470		36 471		830 288		1 515 239
	6 291	7 784			11 044	457			1	18 727		56 736
603	2 400	2 504		1 106	1 254	483	1 551	2 395	644	261 969	191	561 389
4 986	48 434	1 403	3 407	2 520		71 996	5 549	39 322	36 052	172 895		1 362 879
4 565	39 251	818	2 634	1 794		67 682	5 549	35 535	26 258	124 317		1 172 435
	347	667		82		12 449		34 104	3 993	16 037		811 096
183	6 037		2 145	1 095		5 012	326	1 113	25	8 838		47 596
4 382	32 867	151	489	617		50 221	5 223	318	22 240	99 442		313 743
	764	8	351	590		1 495				1 454		43 716
	40	71	422									731
421	8 379	506		136		2 819		3 787	9 794	47 124		145 997

Power Generation Table in 2014 (Continued)

GWh

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
147 461	301 496	43 505	4 176	45 515	77 261	1 062 333	49 380	259 975	174 467	4 319 156	143 216	15 164 454
133 153	238 849	8 993	2 734	22 330	57 451	702 495	47 929	204 413	161 827	2 913 787	83 217	10 810 769
55 827	33 881	1 960		289	33 054	158 299	542	125 365	35 753	1 712 577	37 645	7 278 310
3 490	33 006	3	2 134	1 484	5 708	10 703	345	8 566	1 399	39 877	642	335 176
73 836	171 962	7 030	600	20 558	18 690	533 493	47 042	70 482	124 675	1 161 333	44 930	3 197 283
13 388	38 893	24 317	1 020	22 196	9 137	175 267		7 439	4 362	261 473	59 841	2 207 997
	9 677					180 757		42 389		830 584		1 459 632
	6 000	7 283	422		10 308	455			1	18 710		55 776
920	8 077	2 912		989	364	3 359	1 451	5 734	8 277	294 602	158	630 280
142 788	258 258	42 089	940	42 496	77 261	995 601	44 347	218 237	145 069	4 146 476	143 216	13 853 014
128 784	202 346	8 202	280	20 161	57 451	640 412	42 896	166 357	140 702	2 790 658	83 217	9 683 720
55 827	33 503	1 314		163	33 054	150 529	542	89 579	33 860	1 694 636	37 645	6 576 280
3 401	26 822	3	280	87	5 708	5 782	42	6 633	1 370	31 470	642	247 785
69 556	142 021	6 885		19 910	18 690	484 101	42 312	70 145	105 472	1 064 552	44 930	2 859 654
13 388	38 145	24 308	660	21 597	9 137	173 721		7 439	4 362	260 141	59 841	2 164 112
	9 677					180 757		42 389		830 584		1 459 632
	6 000	7 212			10 308	455			1	18 710		55 125
616	2 090	2 367		739	364	256	1 451	2 052	4	246 383	158	490 425
4 673	43 238	1 416	3 236	3 019		66 732	5 033	41 738	29 398	172 680		1 311 441
4 369	36 503	791	2 454	2 170		62 083	5 033	38 056	21 125	123 129		1 127 050
	378	646		126		7 770		35 786	1 893	17 941		702 029
89	6 184		1 854	1 397		4 921	303	1 933	29	8 407		87 391
4 280	29 941	145	600	647		49 392	4 730	338	19 203	96 781		337 629
	748	9	360	599		1 546				1 332		43 885
		71	422									652
304	5 987	545		250		3 103		3 682	8 273	48 219		139 854

Fuel Consumption Table for Power Generation in 2015

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Main Activity Producer	- 48 565	- 1 195	- 25 311	- 10 025	- 843 754	- 9 109	- 57 724	- 145 114	- 70 195
Coal	- 38 742		- 15 307	- 6 556	- 778 958	- 6 694	- 41 207	- 54 723	- 47 280
Coke									
Coke Oven Gas					- 1 268			- 1 047	- 445
Blast Furnace Gas								- 3 370	- 1 355
Crude Oil & NGL					- 125			- 5 223	
LPG								- 208	
Refinery Gas			- 129		- 555				
Naphtha									
Diesel Oil	- 224	- 11	- 193	- 474	- 228	- 62	- 7 747	- 241	- 96
Fuel Oil	- 26		- 654	- 12	- 976		- 909	- 9 435	- 2 033
Natural Gas	- 9 143	- 1 184	- 8 074	- 1 901	- 26 564	- 2 352	- 7 686	- 69 322	- 18 292
Others	- 430		- 954	- 1 082	- 35 081		- 175	- 1 546	- 694
Autoproducers	- 4 336	- 166	- 9 660	- 2 868	- 207 975	- 13		- 38 401	- 10 939
Coal					- 165 031			- 12 276	- 4 811
Coke					- 1 917				
Coke Oven Gas			- 7		- 7 444			- 469	- 312
Blast Furnace Gas					- 19 713			- 2 137	- 1 621
Crude Oil & NGL					- 67				
LPG				- 1	- 39			- 150	
Refinery Gas			- 203		- 1 449			- 1 855	
Naphtha								- 2 757	- 1 477
Diesel Oil	- 878		- 114	- 46	- 63			- 2 603	
Fuel Oil	- 152		- 41	- 74	- 991			- 4 124	
Natural Gas	- 2 741	- 166	- 6 508	- 39	- 7 040			- 3 928	- 875
Others	- 565		- 2 787	- 2 708	- 4 221	- 13		- 8 102	- 1 843

Fuel Consumption Table for Power Generation in 2014

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Main Activity Producer	- 46 384	- 1 149	- 25 707	- 8 778	- 881 036	- 10 447	- 51 584	- 150 756	- 70 093
Coal	- 37 265		- 15 383	- 5 647	- 819 437	- 8 140	- 37 076	- 53 999	- 46 367
Coke									
Coke Oven Gas					- 1 258			- 951	- 455
Blast Furnace Gas								- 3 418	- 1 390
Crude Oil & NGL					- 89			- 7 226	
LPG								- 460	
Refinery Gas			- 119		- 714				
Naphtha									
Gas/Diesel Oil	- 132	- 11	- 170	- 619	- 263	- 48	- 5 278	- 347	- 96
Fuel Oil	- 23		- 569	- 37	- 1 015	- 1	- 1 103	- 11 854	- 1 840
Natural Gas	- 8 665	- 1 138	- 8 425	- 1 688	- 21 408	- 2 258	- 8 038	- 71 523	- 19 382
Others	- 299		- 1 041	- 787	- 36 852		- 89	- 977	- 563
Autoproducers	- 4 147	- 174	- 8 570	- 2 967	- 176 556	- 12		- 37 717	- 9 396
Coal					- 134 391			- 11 657	- 3 433
Coke					- 1 788				
Coke Oven Gas			- 7		- 7 356			- 557	- 365
Blast Furnace Gas					- 20 012			- 2 467	- 1 658
Crude Oil & NGL					- 70				
LPG					- 33			- 151	
Refinery Gas			- 198		- 1 793			- 1 743	
Naphtha								- 2 228	- 1 110
Gas/Diesel Oil	- 748		- 94	- 38	- 48			- 2 256	- 27
Fuel Oil	- 134		- 77	- 127	- 989			- 4 353	
Natural Gas	- 2 742	- 174	- 5 438	- 15	- 5 786			- 3 734	- 752
Others	- 523		- 2 756	- 2 787	- 4 290	- 12		- 8 569	- 2 051

Fuel Consumption Table for Power Generation in 2015 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
- 28 750	- 41 240	- 1 478	- 80	- 3 996	- 13 555	- 189 200	- 8 214	- 34 484	- 33 141	- 585 913	- 21 401	- 2 172 444
- 15 616	- 8 728	- 266		- 63	- 9 265	- 47 929	- 256	- 18 231	- 6 260	- 337 881	- 13 200	- 1 447 162
										- 20		- 2 780
										- 183		- 4 908
												- 5 348
												- 208
												- 684
- 279	- 346			- 50	- 288			- 118	- 25	- 1 639	- 41	- 12 063
- 101	- 5 641		- 80	- 71	- 1 125	- 1 670	- 14	- 2 377	- 163	- 2 154	- 215	- 27 658
- 12 662	- 26 525	- 1 174		- 3 700	- 2 719	- 139 601	- 7 267	- 13 756	- 25 547	- 225 492	- 7 887	- 610 848
- 91		- 38		- 112	- 158			- 677	- 1 147	- 18 544	- 59	- 60 788
- 1 813	- 11 535	- 341	- 683	- 668		- 94 920	- 1 103	- 8 051	- 3 731	- 27 733		- 424 937
	- 13	- 6		- 102		- 13 575		- 4 846		- 2 061		- 202 721
						- 17						- 1 934
	- 8	- 46				- 1 554		- 286		- 84		- 10 210
	- 134	- 134				- 1 554		- 611		- 559		- 26 462
						- 594						- 661
	- 120					- 18						- 328
				- 32		- 788	- 182	- 4		- 1 992		- 6 505
												- 4 234
- 51	- 165		- 103	- 80		- 1 909				- 51		- 6 063
	- 414		- 452	- 67		- 4 842	- 32	- 212	- 6	- 34		- 11 441
- 1 646	- 8 061	- 39	- 128	- 221		- 65 785	- 889	- 62		- 16 246		- 114 374
- 116	- 2 620	- 116		- 167		- 4 284		- 2 030	- 3 725	- 6 706		- 40 003

Fuel Consumption Table for Power Generation in 2014 (Continued)

ktoe

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	The United States	Viet Nam	Total
- 29 645	- 40 470	- 1 556	- 80	- 3 838	- 12 584	- 192 952	- 8 205	- 33 319	- 31 379	- 605 902	- 16 203	- 2 222 069
- 13 639	- 8 655	- 301		- 44	- 8 227	- 43 523	- 229	- 19 027	- 8 296	- 392 624	- 8 501	- 1 526 379
										- 21		- 2 685
										- 206		- 5 014
												- 7 315
												- 460
												- 833
- 621	- 318	- 1		- 33	- 334		- 2	- 70	- 18	- 1 924	- 56	- 10 344
- 312	- 6 764		- 80	- 67	- 1 044	- 1 586	- 27	- 1 510	- 372	- 2 181	- 118	- 30 504
- 14 964	- 24 733	- 1 214		- 3 580	- 2 872	- 147 843	- 7 257	- 12 694	- 22 576	- 190 103	- 7 478	- 577 838
- 108		- 40		- 115	- 107		- 690	- 19	- 117	- 18 843	- 49	- 60 697
- 1 652	- 10 718	- 335	- 682	- 859		- 107 537	- 1 040	- 8 414	- 5 352	- 28 874		- 405 000
	- 42	- 5		- 158		- 13 251		- 5 282		- 2 389		- 170 608
						- 6						- 1 794
	- 10	- 43				- 1 535		- 295		- 85		- 10 253
	- 110	- 131				- 1 420		- 616		- 683		- 27 097
						- 615						- 685
	- 121					- 27						- 332
				- 32		- 758	- 194	- 7		- 1 929		- 6 653
												- 3 338
- 25	- 187		- 93	- 94		- 2 050				- 57		- 5 717
	- 366		- 442	- 79		- 5 815	- 35	- 379	- 7	- 83		- 12 886
- 1 541	- 7 175	- 38	- 147	- 195		- 77 688	- 811	- 68	- 1 804	- 16 250		- 124 358
- 85	- 2 707	- 118		- 302		- 4 372		- 1 768	- 3 542	- 7 398		- 41 279

Power Generation Capacity - Total

MW

	1990	2005	2010	2011	2012	2013	2014	2015
Australia	38 451	50 142	60 068	61 939	64 246	64 026	66 557	66 353
Brunei Darussalam	334	759	888	894	724	806	920	923
Canada	104 141	123 211	132 375	132 959	132 598	132 598	140 340	148 150
Chile	5 099	12 586	16 231	17 549	18 153	18 600	22 809	21 639
China	137 891	509 410	962 180	1 064 550	1 144 750	1 247 280	1 370 190	1 525 270
Hong Kong, China	8 342	11 804	12 624	12 624	12 625	12 625	12 626	12 625
Indonesia	9 275	27 664	32 896	39 899	39 280	45 055	46 857	49 257
Japan	188 700	274 262	281 082	282 284	285 643	287 060	287 060	290 475
Republic of Korea	21 021	66 537	84 700	84 654	94 276	91 997	99 830	103 001
Malaysia	5 582	23 626	24 817	25 599	29 143	29 748	29 974	30 439
Mexico	27 371	52 497	62 290	61 600	62 136	63 611	66 238	67 333
New Zealand	7 176	8 854	9 457	9 765	9 615	9 622	9 704	9 455
Papua New Guinea	490	N.A.	N.A.	N.A.	N.A.	N.A.	845	855
Peru	4 143	6 201	8 000		9 699	11 051	10 269	10 908
The Philippines	6 869	15 619	13 319	16 162	17 025	17 325	17 944	18 695
Russia	213 400	219 043	222 935	222 984	232 685	N.A.	N.A.	N.A.
Singapore	3 667	10 106	10 265	10 222	10 488	11 221	12 863	13 042
Chinese Taipei	16 883	43 146	48 882	48 750	48 711	49 103	48 719	48 719
Thailand	8 725	26 269	31 486	31 486	33 178	34 973	34 973	35 808
The United States	733 589	978 539	1 041 000	1 055 278	1 067 878	1 065 092	1 073 438	1 062 691
Viet Nam	2 537	11 340	21 542	23 527	26 475	30 662	34 215	38 523

Power Generation Capacity - Thermal Power

MW

	1990	2005	2010	2011	2012	2013	2014	2015
Australia	30 130	40 815	49 028	49 626	50 459	49 509	49 977	49 710
Brunei Darussalam	334	759	888	894	723	805	919	922
Canada	31 201	37 174	40 424	38 939	34 660	34 660	34 174	40 946
Chile	2 421	7 360	10 576	11 419	11 957	12 105	16 049	13 616
China	101 845	384 130	706 630	768 520	819 170	862 380	894 420	970 460
Hong Kong, China	8 342	11 804	12 624	12 624	12 625	12 625	12 625	12 625
Indonesia	7 040	23 453	27 973	34 717	33 759	38 508	40 178	42 506
Japan	119 303	177 472	181 736	182 382	185 309	188 904	188 904	193 356
Republic of Korea	11 065	45 365	60 389	58 303	65 538	62 565	68 549	70 108
Malaysia	4 185	21 242	22 488	22 515	24 994	24 973	24 243	23 518
Mexico	18 155	39 540	47 736	47 070	46 707	48 047	48 797	49 421
New Zealand	2 296	2 886	2 929	3 138	2 988	2 738	2 661	2 389
Papua New Guinea	335	N.A.	N.A.	N.A.	N.A.	N.A.	543	553
Peru	1 744	2 938	4 682		5 828	7 414	6 464	6 464
The Philippines	3 661	10 393	9 041	10 772	11 504	11 784	12 047	12 365
Russia	149 700	149 915	151 114	151 114	157 845	N.A.	N.A.	N.A.
Singapore	3 667	10 106	10 261	10 216	10 478	10 964	12 607	12 726
Chinese Taipei	9 177	32 756	37 924	37 632	37 063	37 242	36 607	36 607
Thailand	6 451	20 575	25 109	25 201	28 859	30 119	30 119	30 719
The United States	536 667	767 316	793 551	798 833	793 352	787 297	789 624	773 980
Viet Nam	1 362	4 382	13 338	13 338	13 778	15 931	18 751	21 822

Power Generation Capacity - Hydro Power

MW

	1990	2005	2010	2011	2012	2013	2014	2015
Australia	8 321	8 535	8 773	8 788	8 790	8 037	8 048	8 048
Brunei Darussalam								
Canada	59 381	71 978	75 078	75 573	75 537	75 537	78 533	79 420
Chile	2 678	5 224	5 467	5 946	5 992	6 094	6 243	6 498
China	36 046	116 520	213 400	233 390	248 900	280 020	304 860	319 540
Hong Kong, China								
Indonesia	2 095	3 411	3 734	3 944	4 146	5 166	5 229	5 262
Japan	37 482	46 803	47 966	48 111	48 418	48 934	48 934	49 597
Republic of Korea	2 340	3 883	5 525	6 418	6 447	6 454	6 467	6 471
Malaysia	1 397	2 091	2 107	2 856	3 317	3 916	4 773	5 716
Mexico	7 838	10 598	11 626	11 646	11 650	11 653	12 464	12 223
New Zealand	4 619	5 346	5 254	5 254	5 254	5 263	5 263	5 340
Papua New Guinea	155	N.A.	N.A.	N.A.	N.A.	N.A.	249	249
Peru	2 400	3 207	3 318		3 484	3 556	3 527	4 166
The Philippines	2 153	3 222	2 914	3 491	3 521	3 521	3 543	3 600
Russia	43 400	45 797	47 430	47 479	49 445	N.A.	N.A.	N.A.
Singapore								
Chinese Taipei	1 562	4 512	4 579	4 643	4 683	4 683	4 683	4 683
Thailand	2 274	3 476	3 488	3 488	3 508	3 524	3 524	3 524
The United States	92 360	98 887	101 023	100 944	101 106	101 589	102 162	102 239
Viet Nam	1 176	4 155	8 180	10 165	12 643	14 661	15 394	16 587

Power Generation Capacity - Nuclear Power

MW

	1990	2005	2010	2011	2012	2013	2014	2015
Australia								
Brunei Darussalam								
Canada	13 538	13 345	12 665	12 665	13 370	13 370	14 033	14 033
Chile								
China		6 840	10 820	12 570	12 570	14 610	20 080	27 170
Hong Kong, China								
Indonesia								
Japan	31 645	48 222	48 847	48 960	48 960	46 148	46 148	44 264
Republic of Korea	7 616	17 176	17 716	18 716	20 716	20 716	20 716	21 716
Malaysia								
Mexico	675	1 365	1 365	1 365	1 610	1 400	1 400	1 510
New Zealand								
Papua New Guinea								
Peru								
The Philippines								
Russia	20 300	23 242	24 300	24 300	25 304	N.A.	N.A.	N.A.
Singapore								
Chinese Taipei	5 144	5 144	5 144	5 144	5 144	5 144	5 144	5 144
Thailand								
The United States	99 643	99 988	101 167	101 419	101 885	99 240	98 569	98 672
Viet Nam								

Power Generation Capacity - Others

MW

	1990	2005	2010	2011	2012	2013	2014	2015
Australia		792	2 267	3 525	4 997	6 480	8 532	8 595
Brunei Darussalam							1	1
Canada	21	714	4 208	5 782	9 031	9 031	13 600	13 751
Chile		2	188	184	204	401	517	1 525
China		1 920	31 330	50 070	64 110	90 270	150 830	208 100
Hong Kong, China							1	
Indonesia	140	800	1 190	1 237	1 375	1 381	1 450	1 489
Japan	270	1 765	2 533	2 831	2 956	3 074	3 074	3 258
Republic of Korea		113	1 070	1 217	1 575	2 262	4 098	4 706
Malaysia		293	221	228	832	859	957	1 205
Mexico	703	994	1 563	1 519	2 169	2 511	3 577	4 179
New Zealand	261	622	1 274	1 373	1 373	1 621	1 780	1 726
Papua New Guinea		NA	NA	NA	NA	NA	53	53
Peru		55			387	81	278	278
The Philippines	1 055	2 004	1 364	1 900	2 001	2 021	2 354	2 730
Russia		89	91	91	91	NA	NA	NA
Singapore			4	6	10	257	257	317
Chinese Taipei	1 000	735	1 234	1 332	1 821	2 033	2 285	2 285
Thailand		2 218	2 889	2 797	811	1 330	1 330	1 564
The United States	4 919	12 348	45 259	54 082	71 535	76 966	83 083	87 800
Viet Nam		2 803	24	24	54	70	70	114

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A. Definition of products

Coal

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

1. Anthracite

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

2. Coking coal

A bituminous coal that can be used in the production of a coke capable of supporting a blast furnace charge.

3. 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 2.0 per cent, 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 per cent.

4. Sub-bituminous coal

A brown coal with a gross calorific value (moist, ash-free basis) equal to or greater than 20 MJ/kg but less than 24 MJ/kg.

5. Lignite

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

6. Peat

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

7. Patent fuel

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

8. Coke oven 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.

9. Coal tar

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

10. BKB/PB (Braunkohlenbriketts/Peat briquettes)

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

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

11. 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: (a) gases obtained from carbonisation or gasification of coals, cokes, biomass or waste; and (b) substitute natural gas (a methane-rich gas) made from synthesis gas.

12. Coke oven gas

A gas produced from coke ovens during the manufacture of coke oven coke.

13. 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 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 or animal meal) is used in blast furnaces, part of the carbon supply may be considered renewable.

14. Oxygen steel furnace gas

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

Oil

1. Crude oil

A mineral oil of fossil origin extracted by conventional means from underground reservoirs, and comprises 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.

2. Natural gas liquids (NGL)

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

NGL 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 of the components of NGL except ethane are either liquid at the surface or are liquefied for disposal.

3. 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 naphthas, middle distillates, pyrolysis gasoline and heavy oils from vacuum distillation and petrochemical plants.

4. Additives/Oxygenates

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

oxygenates such as alcohols (methanol, ethanol) and ethers such as methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME); (b) esters such as (e.g., rapeseed or dimethylester, etc.) and (c) chemical compounds such as tetramethyllead (TML), tetraethyllead (TEL) and detergents. Some additives and oxygenates may be derived from biomass while others may be of hydrocarbon origin.

5. 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;
- **Biodimethylether:** a diesel quality fuel produced from biomass and/or the biodegradable fraction of waste;
- **Bio-oil:** a pyrolysis oil fuel produced from biomass

6. Other hydrocarbons

These are non-conventional oil and hydrogen. Non-conventional oils refer to oils obtained by non-conventional production techniques, that is oils which 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.

7. 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.

8. Ethane

A naturally gaseous straight-chain hydrocarbon (C₂H₆). Ethane is obtained at gas separation plants or from the refining of crude oil. It is a valuable feedstock for petrochemical manufacture.

9. Liquefied petroleum gases (LPG)

Refers to liquefied propane (C₃H₈) and butane (C₄H₁₀) 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.

10. 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 naphthas are as feedstock for high octane gasolines and the manufacture of olefins in the petrochemical industry.

11. 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 toluene. The distillation range is 25°C to 170°C.
- **Gasoline-type jet fuel:** this includes all light hydrocarbon oils for use in aviation turbine power units, distilling between 100°C and 250°C. They are obtained by blending kerosene and gasoline or naphtha in such a way that the aromatic content does not exceed 25% in volume and the vapor pressure is between 13.7 kilopascal (kPa) and 20.6 kPa.

12. Kerosenes

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 national standards committees, 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.

13. 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.

14. 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.

15. White spirit and SBP

White spirit and special boiling point industrial spirits (SBP) are refined distillate intermediates with a distillation in the naphtha/kerosene range. They are mainly used for non-fuel purposes and sub-divided as: (a) white spirit - an industrial spirit with a flash point above 30°C and a distillation range of 135°C to 200°C; and (b) industrial spirit (SBP) - light oils distilling between 30°C and 200°C.

16. Lubricants

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

17. 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.

18. 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.

19. Petroleum coke

A black solid obtained mainly by cracking and carbonising heavy hydrocarbon oils, tars and pitches. It consists mainly of carbon (90 to 95 per cent) and has a low ash content. The two most important categories are "green coke" and "calcined coke". Green coke (raw coke) is the primary solid

carbonisation product from high boiling hydrocarbon fractions obtained at temperatures below 630°C. It contains 4-15 per cent by weight of matter that can be released as volatiles during subsequent heat treatment at temperatures up to approximately 1330°C. Calcined coke is a petroleum coke or coal-derived pitch coke obtained by heat treatment of green coke to about 1330°C. It will normally have a hydrogen content of less than 0.1 per cent by weight.

20. Other products

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

Gas

1. Natural gas

A mixture of gaseous hydrocarbons, primarily methane, but generally also including ethane, propane and higher hydrocarbons in much smaller amounts and some noncombustible 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% or more methane), 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.

2. LNG

Liquid natural gas is produced by liquefaction of natural gas, liquefied by reducing its temperature in order 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

1. 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.

2. 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, cutoffs, 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.

3. Bagasse

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

4. Charcoal

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

5. 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.

6. 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.

7. Industrial waste

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

8. 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.

9. 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.

10. Hydro

Electricity produced from devices driven by fresh,

flowing or falling water.

11. Geothermal

Electricity and heat generation produced from geothermal plants.

12. 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.

13. Tide/wave/ocean

Electricity generation produced from tide / wave / ocean.

14. Wind energy

Electricity produced from devices driven by wind.

Electricity and heat

1. Thermal

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

2. Hydro

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

3. Nuclear

Electricity and heat generation from nuclear plants.

4. Geothermal

Electricity and heat generation from geothermal plants.

5. 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 photovoltaic and from solar thermal systems.
- **Heat:** solar energy exploited for hot water production by: Flat plate collectors, mainly of the thermosyphon type, 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 generation produced from tide / wave / ocean.
- **Wind:** electricity produced from devices driven by wind.
- **Biomass:** electricity and heat produced by fuelwood, woodwaste, bagasse, other biomass, biogas and liquid biofuels.

- **Waste:** electricity and heat produced by industrial waste and municipal solid waste.

6. Others

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

B. Definition of flows

Supply sector

Domestic supply is defined as *indigenous production + from other sources + imports - exports - international marine bunkers - international aviation bunkers ± stock changes*.

1. 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* is the capture or extraction of fuels or energy from natural energy flows, the biosphere and natural reserves of fossil fuels within the national 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* is 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.

As regards 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: 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. There are a few examples:

- 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.

2. Imports and exports

Imports of energy products comprise all fuel and other energy products entering the national territory. Goods simply being transported through a country (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 national merchant ships and civil aircraft engaged in international travel is excluded from imports. Fuels delivered to national merchant ships and civil aircraft which are outside of the national territory and are engaged in international travel should be classified as "international marine" or "aviation bunkers", respectively, in the country where such bunkering is carried out. Note that the "country of origin" of energy products should be recorded as a country from which goods were imported.

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

country 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: 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.

3. International marine bunkers

International marine bunkers are quantities of fuels delivered to merchant (including passenger) ships, of any nationality, for consumption during international voyages transporting goods or passengers. International voyages take place when the ports of departure and arrival are in different national 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.

4. International aviation bunkers

International aviation bunkers are quantities of fuels

delivered to civil aircraft, of any nationality, for consumption during international flights transporting goods or passengers. International flights take place when the ports of departure and arrival are in different national 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 on the basis of departure and landing locations and not by the nationality of the airline.

5. Stock changes

Stocks are quantities of energy products that can be held and used to: (a) maintain service under conditions where supply and demand are variable in their timing or amount due to normal market fluctuations, or (b) 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.

6. Transfers

This refers to products transferred and inter-product transfers. *Product transferred* refers to the reclassification (renaming) of products which is necessary when finished oil products are used as feedstock in refineries. *Interproduct 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 in order to meet its winter diesel specification.

7. Statistical difference

This is the difference between calculated and observed gross inland deliveries. National Administrations 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 sector

Transformation is the process where the movement of part or all of 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 including: electricity plants, combined heat and power plants, heat plants, blast furnace/gas works, coke/patent fuel/BKB plants, petroleum refineries, petrochemical industry, liquefaction plants, and other plants.

1. 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.

2. Combined heat and power plants (CHP)

Combined heat and power plants refer to plants which produce both heat and electricity from at least one generating unit in the plant. They are sometimes

referred to as “co-generation” plants. Both main activity producer (formerly known as public) and autoproducer plants are included here.

3. Heat plants

Heat plants refer to plants (including heat pumps and electric boilers) designed to produce heat only for deliveries to third party. 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.

4. Blast furnaces

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.

5. Gas works

Gas works plants are for the production of 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.

6. Coke ovens

Coke ovens are facilities for the carbonisation of coal, principally coking coal, at high temperature. The transformation process provide for the production of coke and by-products such as coke oven gas and coal tar.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. Charcoal production plants

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

14. Other transformation plants

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

Energy sector

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

The energy sector is divided into the following sub-sectors: coal mines, patent fuel plants, coke ovens, gas work plants, natural gas blending plants, blast furnaces, BKB/PB plants, petroleum refineries, electricity, CHP and heat plants, liquefaction plants,

not elsewhere specified and distribution losses.

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 sector

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

1. Industry sector

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.

1.1 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.

1.2 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)

1.3 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)

1.4 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

1.5 Transport equipment

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

- Manufacture of motor vehicles (ISIC 291) bodies for motor vehicles and semi-trailers (ISIC 292)
- Manufacture of parts and accessories for motor

vehicles (ISIC 293)

- Building of ships and boats (ISIC 301)
- Manufacture of railway locomotives and rolling stock (ISIC 302)
- Manufacture of air and spacecraft and related machinery (ISIC 303)
- Manufacture of transport equipment not elsewhere classified (ISIC 309)

1.6 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)

1.7 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)

1.8 Food, beverages and tobacco

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

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

1.9 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)

1.10 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)

1.11 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)

1.12 Textile and leather

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

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

1.13 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)
- Jewellery, 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)

2. Transport sector

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

2.1 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.

2.2 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.

2.3 Rail

Refers to rail traffic, including industrial railways.

2.4 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.

2.5 Pipeline transport

Refers to transport of goods through pipelines.

2.6 Not elsewhere specified

Transport activities not included elsewhere.

3. Other sector

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

3.1 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.

3.2 Residential

Refers to all households including "households with employed persons." ISIC Division 97 and 98.

3.3 Agriculture

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

3.4 Fishing

Refers to aquaculture and fisheries, covering the use of fishery resources from marine, brackish or freshwater environments, with the goal of capturing or gathering fish, crustaceans, molluscs and other marine organisms and products (e.g. aquatic plants, pearls, sponges, etc.) Also included are activities that are normally integrated in the process of production for own account (e.g. seeding oysters for pearl production). ISIC Division 03.

3.5 Not elsewhere specified

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

3.6 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.

This is further classified into:

- **Chemical (incl. the petrochemical sector):**
Non-energy use of coal includes uses as feedstocks to produce fertiliser and as feedstocks for other petrochemical products.

- **Transport sector:** Non-energy use in all transport sub sectors.
- **Other sector:** Non-energy use in commercial and public services, residential, agriculture and not elsewhere specified.

C. Energy prices

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

Table 1. Import prices

These are import prices based on 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 cost, insurance and freight (CIF) but exclude import duties.

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

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

Table 2. Wholesale prices

Table 2 contains wholesale prices. These are the

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

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

Table 3. Consumer prices

These are the prices paid by end-use consumers such as motorists buying fuel in filling stations, household 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 include the government services and streetlights. Others include agriculture and other sectors not included in industrial, commercial and residential.

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

1. Unit

For the purpose of presenting its energy balances APEC has adopted kcal and Joules. 10^7 kcal (41.868 gigajoules) is equivalent to one ton of oil equivalent (toe). This quantity of energy is, within a few percent, equal to the net heat content of one ton of crude oil.

2. Conversion (from original to TOE)

The Coordinating Agency 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.

3. Layout

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

Columns

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

Column 1: Coal includes all primary coal, such as anthracite, coking coal, other bituminous coal, sub-bituminous coal, lignite and peat.

Column 2: Coal products includes all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coal tar, coke oven gas, blast furnace gas and oxygen steel furnace gas.

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

Columns 4 and 4.1 to 4.10: Petroleum products (column 4) comprises motor gasoline, naphtha, jet fuel, kerosene, gas/diesel oil, residual fuel oil, LPG, refinery gas, ethane and other petroleum products such as: aviation gasoline, white spirit, lubricants, bitumen, paraffin waxes and petroleum coke (columns 4.1 to 4.10). The definitions of these products are in Appendix A.

Column 5: Gas includes natural gas and LNG (excluding natural gas liquids).

Column 6: Hydro shows the energy content of the electricity produced in hydro power plants. Hydro output includes output from pumped storage plants.

Column 7: Nuclear shows the primary heat equivalent of the electricity produced by a nuclear power plant with an average thermal efficiency of 33 percent.

Column 8: 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 9: Others includes wood, wood waste, black liquor, industrial and municipal waste and biomass (power generation from other fuel sources such as defined in "others" is included here).

Column 10: 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 = 0.000086 Mtoe).

Column 11: 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 12: Total = the total of columns 1 to 11.

Rows

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

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

Row 2/3: Imports and exports comprise amounts having crossed the boundaries of the economy whether or not customs clearance has taken place.

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) are made up of *indigenous production (row 1) + imports (row 2) – exports (row 3) – international marine and aviation bunkers (row 4/5) and ± stock changes (row 6)*.

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

Row 9: Total transformation sector is made up of

main activity producer (row 10) + autoproducers (row 11) + gas processing (row 12) + petroleum refineries (row 13) + coal transformation (row 14) + other transformation (row 15).

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

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

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

Row 13: The row petroleum refineries shows the

transformation of crude oil, NGL and condensate to petroleum products.

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

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

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

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

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

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

Row 20: Consumption of the industry sector (energy used for transport by industry is not included here but reported under transport).

Row 21: Iron and steel covers ISIC Group 241 and

Class 2431. Report pulverised coal injection (PCI) into blast furnaces under blast furnaces, Transformation sector. To avoid double counting, fuels used in blast furnaces should be reported in the transformation sector.

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

Includes manufacture of basic chemicals (ISIC 201)

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

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

Manufacture of glass and glass products (ISIC 231)

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

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

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

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

Row 27: Road covers transport by road vehicles. It includes agricultural highway use, but excludes motor gasoline used in stationary engines (included in the other sector) and diesel oil for non-highway use in tractors (included in agriculture). Lubricants

for use in road vehicles should be included here. Bitumen for use in road surfacing and gas oil used in engines at construction sites should not be included here but should be included in the industry subsector "construction".

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

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

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

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

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

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

Row 34: Consumption of the agriculture sector.

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

Row 36: Non-energy use covers use of coal, gas and petroleum products such as white spirit, paraffin waxes, lubricants, bitumen and other products. Petroleum coke is shown as non-energy use only when there is evidence of such use; otherwise it is shown under energy use in industry or other sectors. This covers all oil including naphtha, except the other petroleum products listed above, and gas used as petrochemical feedstock. Gas used as raw material for chemical products such as methanol and ammonia/urea is also included.

E. Conversion factors

1. Coal

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

2. Crude oil

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

3. Petroleum products

The conversion factors of each economy are applied.

4. 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

5. 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 = 0.086 Mtoe. 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 = 0.086 Mtoe. 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 = (0.086/0.33) Mtoe. In the case of electricity produced from geothermal heat the primary value is calculated using 1 TWh = (0.086/0.1) Mtoe.

6. Heat

Information on heat is supplied in net kilocalories. 10¹⁰ kilocalories = 1 ktoe

7. 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:

Fuel wood and wood waste	3 702 kcal/kg
Bagasse	1 959 kcal/kg
Charcoal	6 898 kcal/kg
Industrial waste	3 344 kcal/kg
Municipal solid waste	3 344 kcal/kg
Other biomass	2 986 kcal/kg

Average Net Calorific Values of Energy Products in 2015

	Australia	Brunei	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Coal									
Coking Coal	6 804		7 331	6 840	6 161			6 583	6 740
Anthracite	6 377		6 301		6 505	6 998		6 311	4 767
Other Bituminous Coal			6 521	5 862	4 709	6 298		5 892	5 890
Sub-bituminous Coal	4 413		4 275				5 880	5 097	5 100
Lignite	2 341		3 348		3 019				
Peat									
Coal Products									
Patent Fuels								5 344	4 450
Coke Oven Coke	6 449		6 558	7 201	6 800			6 622	6 900
Coal Tar	8 530			8 920	8 000				8 837
Coal Briquettes	5 015				4 250		4 740		
Crude Oil and NGL									
Crude Oil	10 338	10 748	10 220	10 319	10 000		10 920	10 164	10 199
Natural Gas Liquids	10 846	10 900	10 801	11 495			11 934	11 207	
Refinery Feedstocks	10 338		10 151	10 700			10 920		10 700
Additives/Oxygenates		9 597	6 000	5 410	10 233		9 690		10 000
Other Hydrocarbons	10 000	11 023	10 000		10 000		8 880		
Petroleum Products									
Refinery Gas	11 488	11 369	11 488	11 488	11 000			10 515	11 488
Ethane	11 799		11 799						
LPG	11 393	11 023	11 297	11 297	12 000	10 878	11 934	11 529	11 393
Naptha	10 318		10 748	10 748	9 176	10 540	11 064	10 836	10 318
Motor Gasoline	10 653	10 688	10 700	10 700	10 300	10 217	11 064	10 597	10 653
Bio-ethanol			6 401		10 300				
Aviation Gasoline	10 653	10 755	10 700	10 700			9 801		10 653
Gasoline Type Jet Fuel			10 700		10 300				
Kerosene Type Jet Fuel	10 629	10 648	10 653	10 653	10 300	10 262	10 398	10 372	10 629
Other Kerosene	10 246	10 648	10 461	10 461	10 300	10 522	10 212	10 283	10 246
Gas/Diesel Oil	10 175	10 361	10 175	10 342	10 200	10 150	9 166	10 344	10 175
Bio-diesel			8 790		10 200	9 028	9 690		10 125
Fuel Oil	10 175	9 716	9 602	9 602	10 000	9 912	10 319	10 074	10 175
White Spirit SBP	10 270		10 270		9 176				10 270
Lubricants	10 246	9 984	10 032		9 176		9 996	10 283	10 246
Bitumen	9 267	9 554	9 554		9 176				9 267
Paraffin Wax	9 554				9 176		9 996		9 554
Petroleum Coke	8 073		7 643	7 643	7 350			6 784	8 073
Other Products	9 554	11 023	9 554	9 554	9 310		9 996	9 286	9 554
Natural Gas									
Natural Gas	8 462	9 204	8 351	8 430	8 899	9 176	8 885	8 632	8 974
New and Renewables									
Fuel wood and Wood waste	3 701		3 701	3 701				3 702	3 701
Bagasse	1 958		1 958	1 958					1 958
Charcoal	7 357			6 645		6 998		6 898	
Other Biomass	3 701		3 701	3 701	7 000		3 702		3 701
Biogas									
Industrial Waste	3 343		3 343	3 343	7 000			3 344	3 343
Municipal Solid Waste	3 343		3 343	3 343	7 000		3 702	3 344	3 343
Liquid Biofuels	6 401		6 765		10 233	9 028	9 690		10 125

Note: The Net Calorific Values are used to convert the unit of each product to tons of oil equivalent (toe). 1 toe = 10⁷ kcal

Average Net Calorific Values of Energy Products in 2015 (continued)

kcal/kg (kcal/m³ for Natural Gas)

Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam
	6 972	7 206				6 807		6 660		7 707	
	6 184					6 927		6 745	7 431	7 151	5 600
6 300	6 180	6 714		6 500		5 550	6 162	5 671	6 242	6 308	
	4 850	4 911			5 278			4 674		4 538	
	2 667	3 462				3 563		3 957	2 547	3 321	
						2 380					
								3 610			
	6 785	7 046		6 735		6 930	6 735	6 650	6 539	6 894	
	9 069					9 076					
	4 299								6 242		
10 342	10 392	10 300	10 120	10 271	9 905	10 050	10 200	10 442	10 089	10 239	10 200
10 342	9 848	10 932	10 120	10 624		10 010			11 757	11 200	10 000
	10 115	10 516		9 951			10 230			9 776	
10 150	8 844			8 132	7 773			10 442	10 334	6 000	
10 150	10 000								11 778	12 182	
10 150	11 488	11 488	10 515	14 992		11 823	11 488	14 996		11 488	
	11 799								11 348	11 799	
10 878	11 297	11 393	11 393	11 080	10 760	10 987	11 297	11 893	11 778	11 297	10 900
10 019	10 748		10 500		11 031	10 509	10 748	10 924		10 748	
10 500	10 700	10 653	10 654	10 092	10 570	10 509	10 700	10 494	10 450	10 700	10 500
		7 083		6 351	7 083				10 450	7 648	
	10 700	10 653			10 894	10 509	10 700	10 669		10 700	
								10 485			
10 318	10 653	10 629	10 632	10 231	9 957	10 270	10 653	10 038	11 675	10 653	10 300
10 318	10 461	10 246	10 233	10 231	9 855		10 461	10 600	10 310	10 461	10 300
10 150	10 175	10 175	10 284	9 847	10 049	10 175	10 342	10 066	10 236	10 175	10 200
10 150				11 157	9 416				10 236	10 750	
9 912	9 602	10 175	10 520	10 381	9 819	9 554	9 602	10 027	10 105	9 602	9 900
		10 270				10 414	10 270	11 538		10 270	
9 568	10 032	10 246	10 240			10 032	10 032	9 600		10 032	
9 552	9 554	9 267			9 248	9 315	9 315	10 000		9 554	
9 528	9 554					9 554	9 554	10 664		9 554	
8 265	7 643	8 073	8 078			7 643	7 643	8 200		7 643	
10 150	9 554	9 554	9 602	10 402	9 864		9 554	12 496	10 000	9 554	9 900
8 429	8 139	8 398	8 691	8 691	8 292	8 430	8 430	9 000	8 634	8 221	9 000
	3 701	3 701		3 598	3 455	3 701	3 344	3 039	3 820	3 701	2 388
	1 958	1 958		1 499	2 166	1 958		2 252	1 800	1 958	
				6 558	6 313				6 900		
1 125	3 701	3 701		3 596	3 163	3 701	3 344	3 039	3 029	3 701	
1 125								3 690			
	3 343	3 343				3 343	3 343	7 765		3 343	
	3 343	3 343			3 344	3 343	3 343	2 092	1 160	3 343	
10 150		7 083		10 324	7 772			10 094	10 334	7 857	