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APEC

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ENERGY STATISTICS AND TRAINING OFFICE
ASIA PACIFIC ENERGY RESEARCH CENTRE

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PREFACE

The APEC Energy Statistics 2013 consists of the following chapters:

1. Background Information on the APEC Energy Statistics
2. Overview of the APEC Energy Situation
3. Member Economy Tables

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

Chapter 1 describes the methodology for collecting and standardizing 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 and quarterly tables of each member economy. The annual tables contain Energy Balance Tables for 2013 and 2012 and Energy Prices for 2013. The annual tables also include Major Energy Indicators such as primary energy supply, final energy consumption, demand and supply by energy sources and electricity 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 2013. The objective is to report the most recently updated data.

APEC Energy Statistics 2013 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 the APEC

Energy Statistics

APEC Energy Statistics consist of energy data submitted by each member economy as well as socio-economic data collected by the Asia Pacific Energy Research Centre (APEREC), the Coordinating Agency (hereinafter referred to as the CA) for this APEC activity. Energy balance tables, which give a 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.

1.1 Energy Data

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

a. Collection Format for Original Energy Data

Most of the items found in the 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 harmonization efforts of the CA with the IEA. Tables 1-1a and 1-1b show the energy products and flows that are to be reported in the questionnaires. The definition of energy products and flows can be found in the Appendices.

Using the reporting format or the APEC Annual Energy Questionnaires, the members submitted the following information:

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

- Supply and demand information for 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).

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

Table 1-1a: Energy Products in the APEC Energy Database

Coal	Petroleum Products	Gas
Coking Coal	Gasoline	Natural Gas
Other Bituminous Coal	Motor Gasoline	LNG
Sub-bituminous Coal	Aviation Gasoline	Hydro
Anthracite	Naphtha	Nuclear
Lignite	Jet Fuel	New and Renewables
Peat	Gasoline Type Jet Fuel	Geothermal Electricity
Coal Products	Kerosene Type Jet Fuel	Solar Photovoltaic
Coke Oven Coke	Other Kerosene	Tide, Wave and Ocean
Coke Oven Gas	Gas/Diesel Oil	Wind
Blast Furnace Gas	Fuel Oil	Geothermal Heat
Oxygen Steel Furnace Gas	LPG	Solar Heat
Patent Fuel	Refinery Gas	Fuel Wood and Wood Waste
Coal Tar	Ethane	Bagasse
BKB/PB	White Spirit SBP	Charcoal
Gas Works Gas	Lubricants	Other Biomass
Crude Oil & NGL	Bitumen	Biogas
Crude Oil	Paraffin Waxes	Industrial Waste
Natural Gas Liquids	Petroleum Coke	Municipal Solid Waste
Refinery Feedstocks	Other Petroleum Products	Liquid Biofuels
Additives / Oxygenates		Electricity
Other Hydrocarbons		Heat

b. Collection Schedule and Actual Dates of Submission

The CA set the deadline for submission to the end of January 2015. In principle, all 21 APEC members are expected to submit annual data by the aforementioned deadline. The Philippines and Thailand were able to submit the five energy questionnaires by the deadline. Seven non-OECD APEC economies submitted after January 2015. Papua New Guinea; Peru and Viet Nam did not submit their questionnaires.

For Papua New Guinea, the CA estimated its energy data using various references such as the JODI Oil 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.

Peru submitted an energy balance table for 2013 in October 2015. The CA produced the energy balance in APEC format using the data. The CA is also in the process of revising the entire annual data set of Peru from 1980 using the submitted data and data from the published energy balances of the economy.

Singapore submitted their questionnaires but the data lacked the level of details that the energy balance table requires. Therefore, most of the demand side data were estimated by the CA.

Viet Nam did not provide the energy data for 2013. In view of the absence of available references, the CA was not able to estimate the energy balance table for this year for Viet Nam. Therefore, the CA excluded the historical

data of Viet Nam from the analysis in chapter 2. There is also no 2013 energy balance table for Viet Nam in chapter 3.

Table 1-1b: Energy Flows in the APEC Energy Database

<p>Indigenous Production</p> <p>Imports</p> <p>Exports</p> <p>International Marine Bunkers</p> <p>International Aviation Bunkers</p> <p>Stock Changes</p> <p>Total Primary Energy Supply</p> <p>Transfers</p> <p>Recycled Products</p> <p>Inter-product Transfers</p> <p>Products Transferred</p> <p>Gas Separation</p>	<p>Total Transformation Sector</p> <p>Main Activity Producer</p> <p>Electricity Plants</p> <p>CHP Plants</p> <p>Heat Plants</p> <p>Autoproducer</p> <p>Electricity Plants</p> <p>CHP Plants</p> <p>Heat Plants</p> <p>Gas Processing</p> <p>Gas Works</p> <p>Liquefaction</p> <p>Re-gasification</p> <p>Natural Gas Blending Plants</p> <p>Gas to Liquid</p> <p>Refineries</p> <p>Coal Transformation</p> <p>Coke Ovens</p> <p>Blast Furnaces</p> <p>Patent Fuel Plants</p> <p>BKB/PB Plants</p> <p>Liquefaction (Coal to Oil)</p> <p>Kerosene Type Jet Fuel</p> <p>Petrochemical Industry</p> <p>Biofuel Processing</p> <p>Charcoal Processing</p> <p>Non-Specified Transformation</p> <p>Losses and Own Use</p> <p>Own Use</p> <p>Distribution Losses</p>	<p>Total Final Consumption</p> <p>Industry Sector</p> <p>Iron and Steel</p> <p>Chemical</p> <p>Non Ferrous Metals</p> <p>Non Metallic Minerals</p> <p>Transportation Equipment</p> <p>Machinery</p> <p>Mining and Quarrying</p> <p>Food, Beverages and Tobacco</p> <p>Pulp, Paper and Printing</p> <p>Wood and Wood Products</p> <p>Construction</p> <p>Textiles and Leather</p> <p>Non-specified Industry</p> <p>Transport Sector</p> <p>Domestic Air Transport</p> <p>Road</p> <p>Rail</p> <p>Inland Waterways</p> <p>Pipeline Transport</p> <p>Non-specified Transport</p> <p>Other Sector</p> <p>Commerce and Public Services</p> <p>Residential</p> <p>Agriculture</p> <p>Fishing</p> <p>Non-specified Others</p> <p>Of which Non-energy Use</p> <p>Transformation Sector</p> <p>Industry Sector</p> <p>Transport Sector</p> <p>Other Sector</p>
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c. Collection Status

As of 30 June 2015, 16 APEC economies have submitted data to the CA. China; Hong Kong, China; Peru submitted the data after June 2015. Papua New Guinea is not yet able to submit the annual energy questionnaires. Hence, the CA made use of the crude oil production, exports and refinery input and output data submitted by Papua New Guinea from its monthly Joint Organisations Data Initiative (JODI) Oil submission while Viet Nam did not submit any data at all.

The CA took measures to be able to generate energy balance tables for Papua New Guinea and Singapore. For Papua New Guinea, the CA estimated the final energy consumption, electricity generation and inputs as well as imports of petroleum products. For Singapore, the CA used the questionnaires submitted by the economy, that contain mostly trade data and have little or aggregated information on final consumption. The CA will highly appreciate if Singapore does their own estimation of the missing data in the future.

d. Use of the Internet

The advance in internet technology had enabled the submission of all energy data as an email attachment. Correspondence for the improvement of data consistency and accuracy had also been carried out mostly through the internet.

1.2 Standardization

The APEC reporting format requires the use of certain units for reporting energy data. In this regard, the level of standardization has been improved by at least one notch. For example, all oil data are now reported in 1000 metric ton units. Before the 2004 data, each economy used its own units such as barrels, kiloliters, cubic meters, etc. The CA however, does not standardize the conversion factor

from physical to thermal 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.

1.2.1 Conversion Factors for Fossil Energy from Physical to Thermal Units

Between the two calorific values, namely gross and net calorific values, the APEC Standard adopted the net calorific value at the Third Experts Meeting (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 the 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%

1.2.2 Conversion Factors for Primary Electricity

Table 1-2 shows the efficiency applied to convert primary electricity, i.e. power generated by processes (excluding fossil fuel) 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, standardization 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 New Zealand and 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.

1.3 Secondary Data

Using the original data submitted by each member economy, the CA prepares the following tables through the standardization process described in 1.2.

- (1) Energy Balance Table
- (2) Primary Energy Supply Table
- (3) Final Energy Consumption Table
- (4) Supply and Demand by Energy Source Table
- (5) Electricity Table
- (6) Stock Change Table

The Energy Balance Table gives a detailed description of energy sources and their flows.

APEC Energy Statistics contain the six tables mentioned above. Tables (2) through (6) 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 6 allow comparisons among member economies.

1.3.1 Energy Balance Table

The energy balance table is, in principle, 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 each member economy, 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.
- APEC and the IEA use different heat conversion methods.
- The reporting date 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).

1.3.2 Other Tables

Other tables, i.e., primary energy supply, final energy consumption, supply and demand by energy source, electricity and stock change, are all designed to allow comparisons among member economies.

The primary energy supply table shows items 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 others for each final consumption sector (agriculture, residential, commercial, industry and transport).

The supply and demand table for each energy source emphasizes coal, petroleum and gas, and shows, at a balance, how the primary supply volume is being 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.

The stock change table shows the inventory of fossil fuels owned by each member economy, in units of calorific value (ktoe and PJ), at the beginning and end of the period as well as the stock change. Since the conventional approach is to report stock level only in terms of its change, many members omit the stock level at the beginning and end of the term.

1.4 Notes on Member Economies

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

1.4.2 Specific Notes

a. Japan

Energy data after 2000 are not official data prepared by Japanese Government. The CA used data on energy balance table produced by the Institute of Energy Economics, Japan to maintain continuity of data from before 2000.

b. Papua New Guinea

The CA estimated the data in energy balance tables from 2004 to 2013 for Papua New Guinea from the crude oil and natural gas production, refinery intake and output data, crude oil exports and GDP data obtained from Papua New Guinea. Data on geothermal electricity production were also obtained via online research.

c. Singapore

Singapore cannot submit the data on crude oil inputs and petroleum products output of the refinery sector as well as detailed fuel inputs for electricity generation. Furthermore there are no data in the final energy consumption sectors of the oil questionnaire.

The CA estimated most of the data in the energy balance tables of Singapore from 1990 to 2013.

The CA estimated values in petroleum refinery using import volumes of crude oil and export volumes of petroleum products (assuming the stock change and the discrepancy are 0).

1.5 Socio-economic Data

At the moment, the socioeconomic data for each member economy shown in the APEC Energy Statistics are not

reported by the members, but, instead, are prepared by the CA. The data are derived from the *World Development Indicators* (World Bank) and *The International Financial Statistics Yearbook* (IMF). The data on Chinese Taipei not found 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. The items which the CA takes from these publication are:

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

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

1.6 APEC Energy Database

The CA has established the APEC Energy Database, which contains all data on APEC Energy Statistics. The web address of the database is: <http://www.ieej.or.jp/egeda/>.

2 Overview of the APEC Energy Situation

2.1 Overall Notes

Chapter 2 summarizes the energy supply and demand in the APEC region using the energy balance tables of APEC member economies stored in the APEC Energy Database. However, as mentioned in Chapter 1, Viet Nam is not included in this analysis. Energy categories used in this chapter are defined as follows:

a. Coal:

Coking coal, anthracite, other bituminous coal, sub-bituminous coal, lignite and peat, patent fuel, coke, coal tar, BKB/PB, gas works gas, blast furnace gas and oxygen steel furnace gas

b. Oil:

Crude oil, NGL, refinery feedstocks, additives/oxygenates, and other hydrocarbons, refinery gas, ethane, LPG, Naphtha, motor gasoline, aviation gasoline, gasoline type jet fuel, kerosene type jet fuel, other kerosene, gas/diesel oil, fuel oil, white spirit SBP, lubricants, bitumen, paraffin waxes, petroleum coke and other products

c. Gas:

Natural gas and LNG

d. Hydro, Nuclear, etc.:

Electricity generated from non-thermal resources such as hydro, nuclear, geothermal, solar and wind

e. Others:

- Biomass for electricity and heat
- Non-commercial biomass for economies with complete data from 1990 to 2013

Regional groupings of APEC member economies are as follows:

a. East Asia and Russia:

China; Hong Kong, China; Japan; Korea; The Russian Federation and Chinese Taipei

b. Southeast Asia

Brunei Darussalam; Indonesia; Malaysia; The Republic of the Philippines; Singapore and Thailand

c. Oceania:

Australia; New Zealand and Papua New Guinea

d. North America:

Canada; Mexico and United States

e. South America:

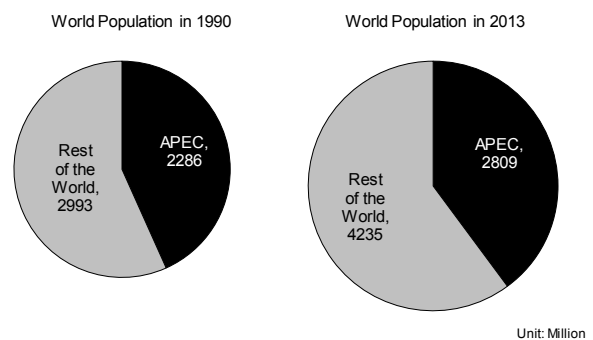
Chile and Peru

From 2004, APEC collected the member economies' annual energy data using a new format which resulted in reporting of non-commercial biomass supply and consumption which were not reported until 2003 for some economies. To analyze the historical trend, non-commercial biomass data of Indonesia; Peru and Thailand which were not reported before 2004 were excluded in this analysis.

2.2 APEC and the World

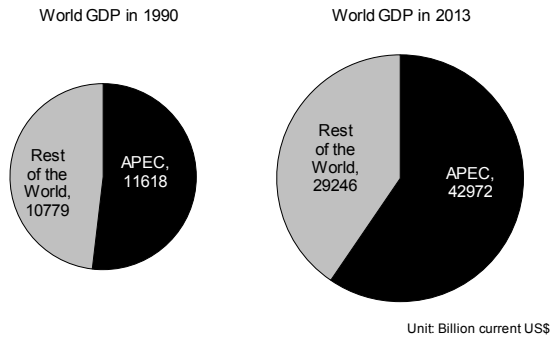
APEC population grew at an average annual rate of 0.9% from 1990 to 2.81 billion in 2013. On the other hand, that of the rest of the world grew by 1.5% per year from 2.99 billion to 4.24 billion during the same period. In view of this, APEC's share of the total population decreased to 39.9% in 2013 from 43.3% in 1990.

APEC's share of the world GDP (current US\$) increased from 51.9% in 1990 to 59.5% in 2013.



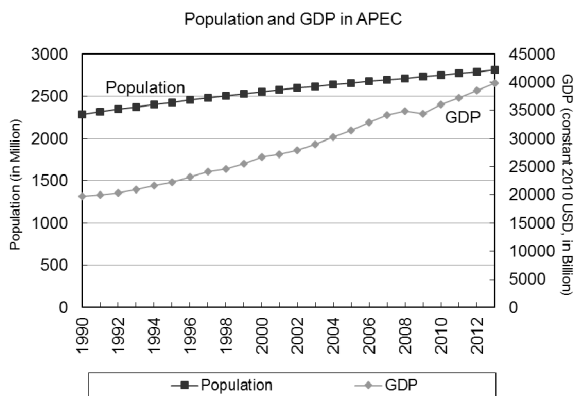
Source: World Bank

Population in 1990 and 2013

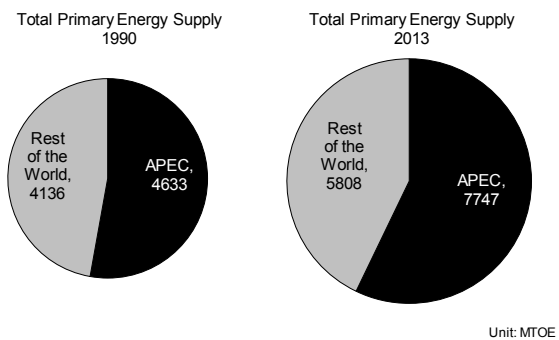


Source: IMF

GDP in 1990 and 2013



In 1990, APEC's share in the world total primary energy supply was 52.8 % (4633 Mtoe). This increased to 57.2% (7747 Mtoe) in 2013 and could be attributed to the faster economic growth in the region relative to the rest of the world.



Source: APEC, IEA

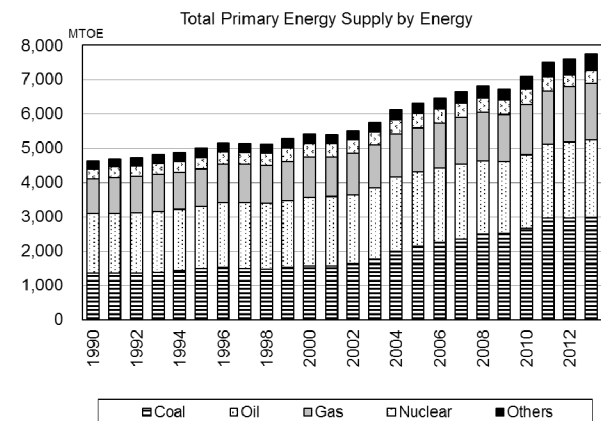
Total Primary Energy Supply in 1990 and 2013

2.3 Energy Supply in APEC

2.3.1 Total Primary Energy Supply

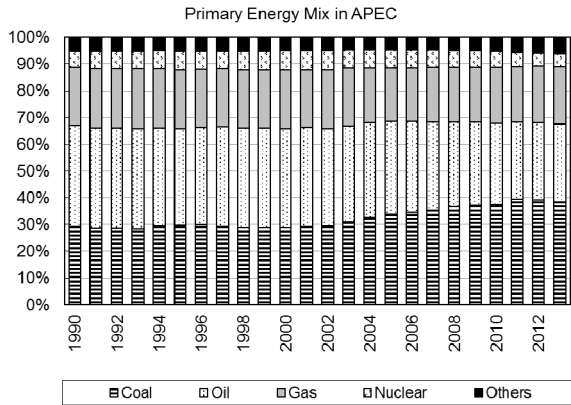
The level of primary energy supply in 2013 of 7747 Mtoe increased by 2.0% from the 2012 level of 7593 Mtoe. During the period 1990 to 2013, primary energy supply had an average growth rate of 2.3% per annum.

During the same period, coal supply rose at an average rate of 3.5% per annum to reach 2982 Mtoe. Oil supply rose at an average rate of 1.1% per annum to reach 2252 Mtoe, increased by 1.9% from 2012. Gas supply increased by 2.2% per annum to reach 1657 Mtoe. The supply of nuclear grew by 1.1% per annum to reach 365 Mtoe. Other energy, which includes hydro and other renewable energy, grew by 3.2% per annum although their total remained small at 492 Mtoe.



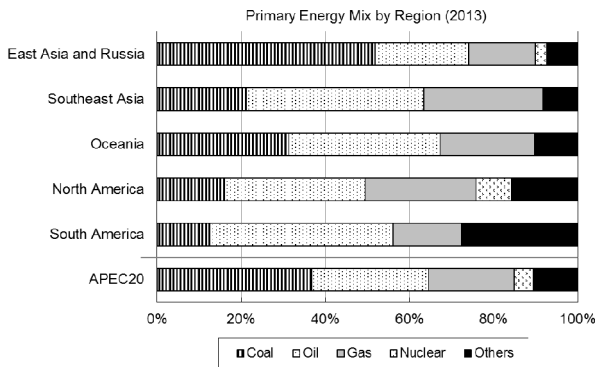
- Primary Energy Mix

The APEC primary energy mix has changed over time from 1990 to 2013. The share of coal, which was 29.3% in 1990, increased to 38.5% in 2013. In contrast, the share of oil decreased to 29.1% in 2013 from 37.7% in 1990. The share of nuclear energy was 4.7% in 2013, which is smaller than the share in 1990 (6.1%).



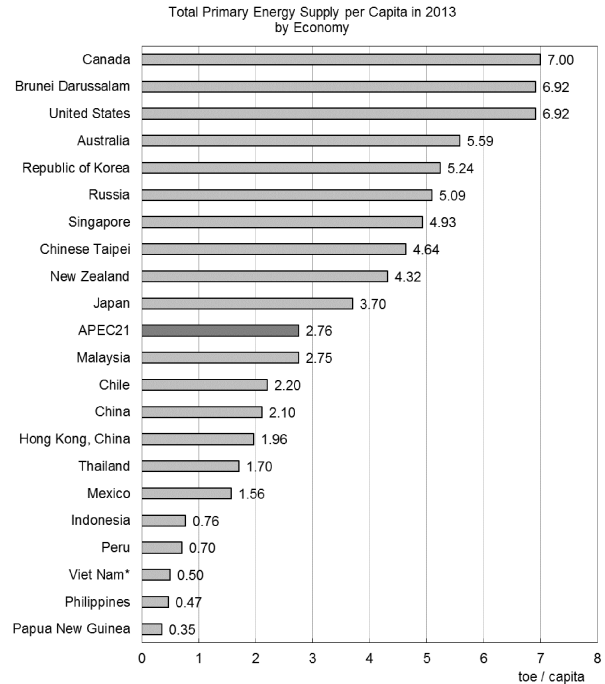
- Primary Energy Mix by region

In East Asia and Russia, the share of coal was 53.2%, higher than other regions. On the other hand, oil was the main energy source in Southeast Asia (42.3%) and South America (43.5%). The share of nuclear energy in North America was higher than other regions, at 9.1% in 2013.



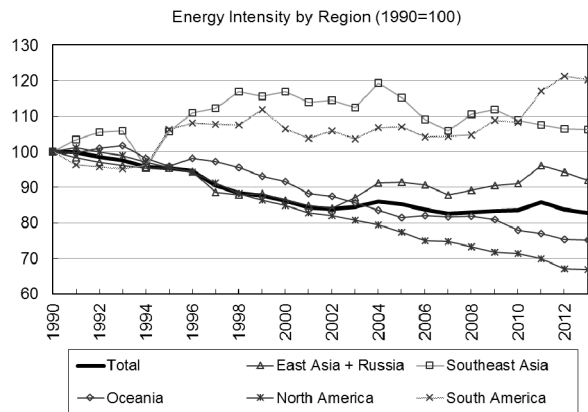
- Total Primary Energy Supply per Capita

The average primary energy supply per capita in APEC region was 2.76 toe per capita in 2013. OECD member economies have higher than average values. In contrast, several Southeast Asian and South American economies have lower values.



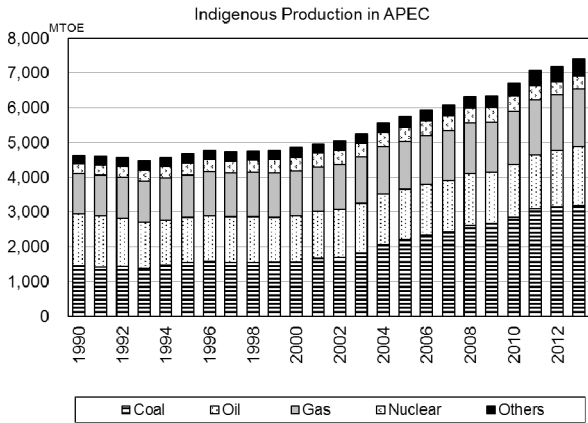
- Energy Intensity

The energy intensity (*Total Primary Energy Supply / GDP in constant 2010 USD*) was 194.6 toe/mill USD in 2013, a 0.8% decrease per annum from 1990. From 1990 to 2013, energy intensity increased in East Asia and Russia, and Southeast Asia, but has decreased in rest of the regions.



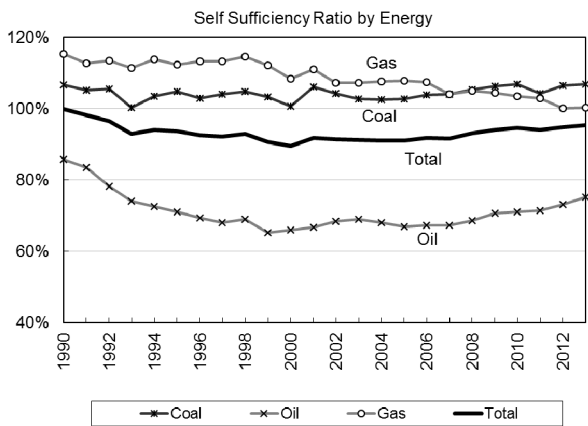
2.3.2 Indigenous Production

Indigenous energy production in 2013 of 7397 Mtoe increased by 2.8% from the 2012 level of 7195 Mtoe. In the period of 1990 to 2013, indigenous production had an average growth rate of 2.1% per annum.



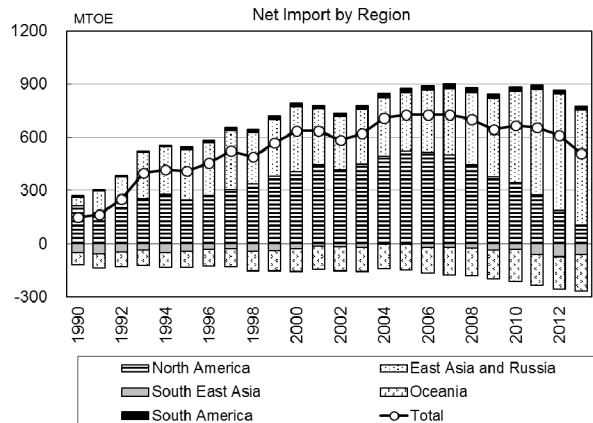
- Self Sufficiency

The self sufficiency ratio (*Indigenous Production / Total Primary Energy Supply*) of the APEC region was 99.9% in 1990 but has decreased to 95.5% in 2013. Self sufficiency ratios in coal and gas are over 100%. Self sufficiency ratio in oil was only 75.2% in 2013 decreasing from 85.8% in 1990.



2.3.3 Net Import by Region

Net import (*import – export*) in the APEC region was 508 Mtoe in 2013, increasing by 5.5% per annum from 1990. In North American region as well as in East Asia and Russia region, net imports were positive. In Southeast Asia, Oceania and South America, net import was negative.

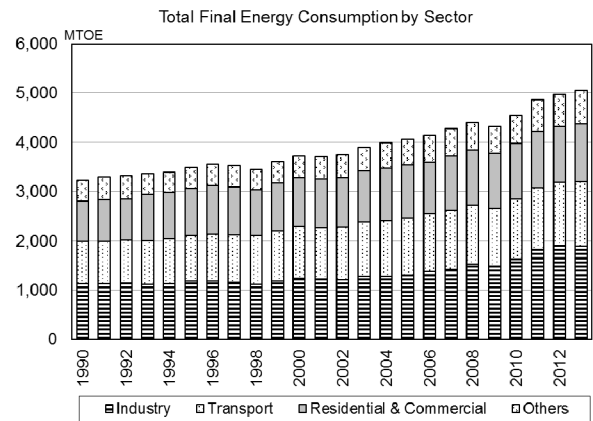


2.4 Energy Consumption in APEC

2.4.1 Total Final Energy Consumption by Sector

The final energy consumption increased by 1.9% from 4966 Mtoe in 2012 to 5059 Mtoe in 2013. The growth rate was 2.0% per annum from 3236 Mtoe in 1990.

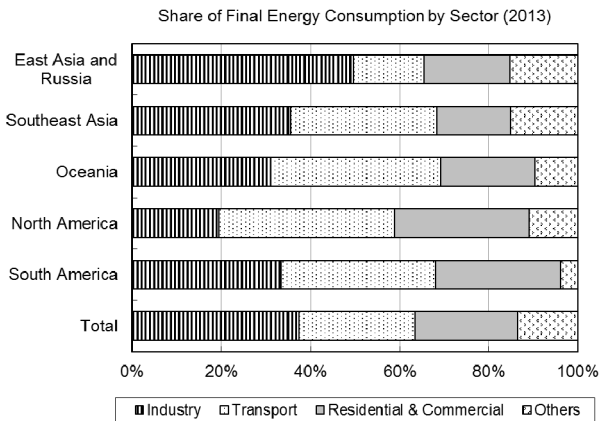
Consumption in the industry sector of 1890 Mtoe was the largest for all sectors in 2013 with a share of 37.4% to the total final consumption. The share of transport sector was 26.0% while that of the residential/commercial sector was 23.0%.



The final energy consumption of the residential/commercial sectors increased by 2.6%, from 1134 Mtoe in 2012 to 1164 Mtoe in 2013. The transport sector consumption also increased by 2.9% from 1280 Mtoe in 2012 to 1318 Mtoe in 2013. Industrial sector consumption increased by 2.3% per annum from 1129 Mtoe in 1990 to

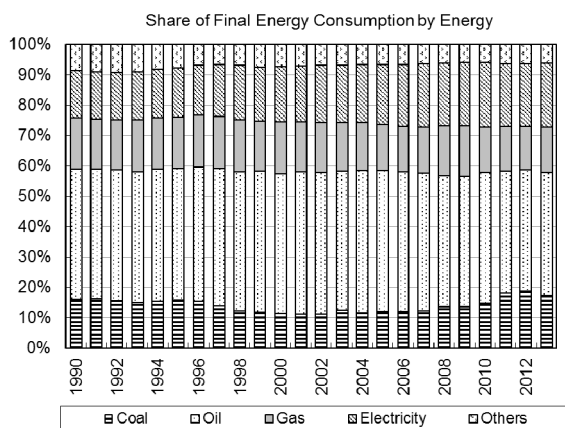
1890 Mtoe in 2013.

In the East Asia and Russia region, consumption in the industry sector of 1382 Mtoe was the largest for all sectors in 2013 with a share of 49.6% to the total final consumption. In North American region, industry share was only 19.4% while the transport sector took the highest share of 39.6% in 2013.



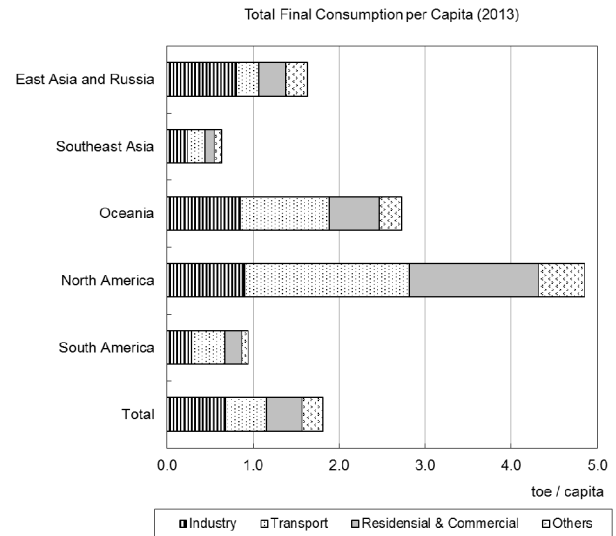
2.4.2 Final Energy Consumption by Energy

In 2013, the oil share in final energy consumption was 40.3% (2041 Mtoe). Electricity share was 21.1% (1067 Mtoe) increasing from 15.5% (502 Mtoe) in 1990.



2.4.3 Final Consumption per Capita

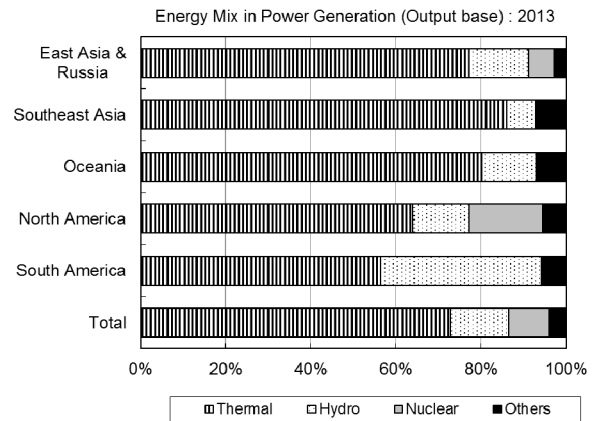
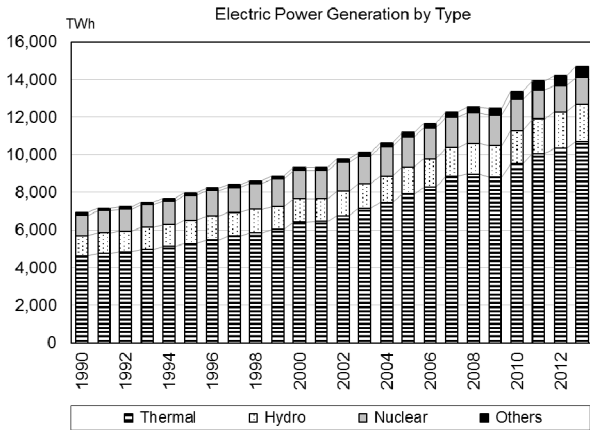
Total final consumption per capita was 1.81 toe/capita in 2013. In Southeast Asia, final energy consumption per capita is 0.64 toe/capita the lowest in APEC. In Oceania and North America, final energy consumption per capita were higher; 2.73 toe/capita and 4.85 toe/capita, respectively.



2.5 Power Generation

2.5.1 Power Generation Output

Power generation increased by 3.4% from 14 221 TWh in 2012 to 14 704 TWh in 2013. From 1990 to 2013, power generation grew at an average rate of 3.3% per annum (from 6938 TWh). Thermal power generation increased by 3.7% from 10 329 TWh in 2012 to 10 709 TWh in 2013. The share of thermal power generation increased to 72.8% of the total in 2013 from 66.6% in 1990. Nuclear power generation increased from 1388 TWh in 2012 to 1400 TWh in 2013. Hydropower generation rose by 3.1% from 1946 TWh in 2012 to 2002 TWh in 2013.



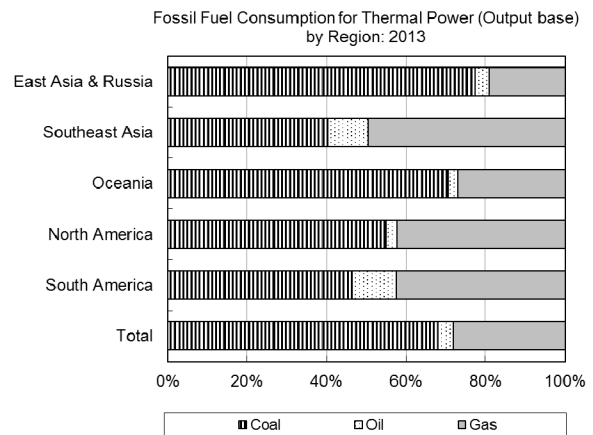
- Power Generation Mix by Region

In the APEC region, 72.7% of electricity generated were from thermal generation (coal, oil and natural gas), 13.9% by hydro and 9.4% by nuclear energy in 2013.

In the East Asia and Russia region, the share of thermal energy was 77.2%, while that of nuclear energy was 5.9%. In Southeast Asia and Oceania, most of electricity was generated from thermal sources and there are no nuclear power generation. In North America, 18.3% were generated by nuclear energy. In South America, the share of hydro of 18.1% was higher than the APEC average of 13.9% in 2013.

2.5.2 Fossil Fuel Consumption for Thermal Power

In 2013, 68.1% of electricity was generated by coal, 3.8% by oil and 28.1% by natural gas. In Southeast Asia, gas was the largest energy source for thermal power generation.



APEC Region	2013												Unit: Mtoe
	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	3,186	-	1,693	0	1,662	173	365	73	245	-	-	7,397	
2 Import	428	8	1,284	481	374	-	-	-	1	11	-	2,587	
3 Export	-599	-7	-530	-542	-391	-	-	-	-1	-10	-	-2,079	
4 International Marine Bunkers	-0	-	-	-91	-	-	-	-	-	-	-	-91	
5 International Aviation Bunkers	-	-	-	-71	-	-	-	-	-	-	-	-71	
6 Stock Change	-21	-14	16	13	11	-	-	-	0	-	-	4	
7 Total Primary Energy Supply	2,994	-13	2,462	-210	1,657	173	365	73	246	1	-	7,747	
8 Main Activity Producer	-1,527	-7	-10	-55	-589	-169	-365	-68	-49	1,155	120	-1,564	
9 Autoproducer	-179	-39	-1	-30	-137	-4	-	-2	-32	109	119	-196	
10 Gas Processing	-6	-0	2	-2	-8	-	-	-	-	-	-	-14	
11 Petroleum Refineries	-	-	-2,398	2,403	-	-	-	-	-	-	-	5	
12 Coal Transformation	-527	260	-	-1	-0	-	-	-	-	-	-	-268	
13 Other Transformation	-	-	53	-73	-6	-	-	-	-47	-	-	-74	
14 Loss & Own Use	-60	-17	-11	-94	-185	-	-	-	-1	-199	-38	-606	
15 Discrepancy	7	-5	-16	-14	21	-0	-0	0	3	2	-6	-8	
16 Total Final Energy Consumption	702	179	10	2,031	752	-	-3	119	1,067	195	-	5,059	
17 Industry Sector	554	150	1	244	287	-	-	0	63	493	99	1,891	
18 Transport Sector	3	0	-	1,223	71	-	-	-	-	20	-	1,318	
19 Other Sector	102	6	0	238	326	-	-	3	56	554	96	1,382	
19.1 Residential & Commercial	69	6	-	138	320	-	-	3	51	489	89	1,164	
19.2 Agriculture	13	0	0	55	3	-	-	0	4	16	5	96	
19.3 Other	21	0	0	45	3	-	-	0	1	49	3	122	
20 Non-energy	43	23	10	325	69	-	-	-	-	-	-	469	

2.6 Energy Balance Table

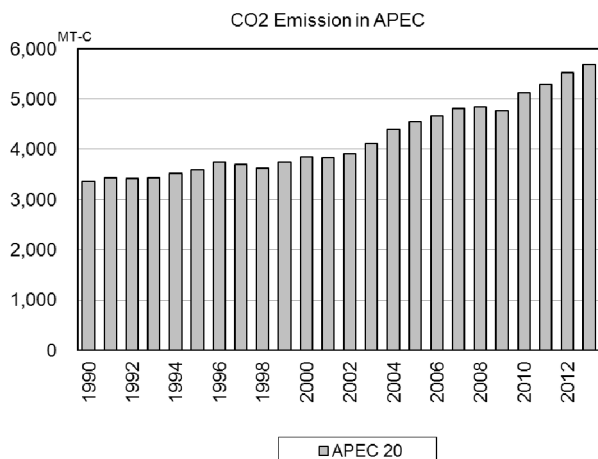
This section presents the 2013 aggregate energy balance table for the APEC region. Note that the export/import row does not show the volume of trade between APEC and non-APEC regions.

Some of the salient points on the table are:

- 57.0% of coal is used for power generation.
- The category “Other” consists mainly of wastes and commercial renewable energy, such resources being used to generate electricity and consumed directly in the industry sector and the residential/ commercial sector.
- Heat accounts for 3.9% of final consumption.
- Oil and Petroleum Products accounted for 40.1% of total final energy consumption, followed in order, by electricity (21.1%), coal (17.4%), and gas (14.9%).

2.7 CO₂ Emissions

The CO₂ emission data for 2013 were collected from 7 member economies, namely: Australia; Canada; Japan; Mexico; Chinese Taipei; Thailand and United States. For other member economies, the CA estimated the CO₂ emissions. Based on both of the data mentioned above, CO₂ emissions from fuel combustion increased by 2.8% from 5532 Mt-C in 2012 to 5684 Mt-C in 2013, or 2.2% per annum from 3357 Mt-C in 1990.



3 Energy Balance and Other Tables by Member Economy

3.1 Australia

Energy Balance Table of Australia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	263,819	-	20,093	-	-	-	-	-	-
Import	-	26	25,241	20,014	2,887	-	2,694	-	10,617
Export	-216,616	-449	-13,232	-2,292	-96	-	-11	-	-78
International Marine Bunkers	-	-	-	-694	-	-	-	-	-38
International Aviation Bunkers	-	-	-	-3,372	-	-	-3,372	-	-
Stock Changes	-1,128	23	177	-46	-79	-4	-30	-	-100
Total Primary Energy Supply	46,076	-400	32,279	13,611	2,712	-4	-717	-	10,401
Transfers	-	-	862	3,400	-	-	-	-	-
Total Transformation Sector	-44,228	1,578	-31,730	30,490	12,035	97	4,696	10	10,382
Main Activity Producer	-41,375	-37	-	-232	-	-	-	-	-187
Autoproducers	-	-72	-	-672	-	-	-	-	-509
Gas Processing	-	-	-	-3	-	-	-	-	-
Petroleum Refineries	-	-	-31,947	31,397	12,035	97	4,696	10	11,078
Coal Transformation	-2,853	1,687	-	-	-	-	-	-	-
Other Transformation	-	-	216	-	-	-	-	-	-
Loss & Own Use	-	-529	-46	-4,099	-	-	-	-20	-2,429
Discrepancy	232	66	-1,349	-1,711	596	-	-1,200	30	-1,597
Total Final Energy Consumption	2,080	715	15	41,691	15,343	93	2,778	19	16,757
Industry Sector	1,934	696	15	4,468	5	-	-	6	3,131
Iron and Steel	11	522	-	11	-	-	-	-	11
Chemical & Petrochemical	152	35	-	187	-	-	-	3	150
Non-metallic Minerals	447	12	-	464	-	-	-	2	23
Other Industries	1,324	127	15	3,806	5	-	-	1	2,947
Transport Sector	144	-	-	30,146	15,191	-	2,778	-	11,186
Domestic Air Transport	-	-	-	2,838	60	-	2,778	-	-
Road	-	-	-	26,095	15,131	-	-	-	10,006
Rail	-	-	-	974	-	-	-	-	973
Inland Waterways	144	-	-	178	-	-	-	-	158
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	61	-	-	-	-	50
Other Sector	2	19	-	3,079	147	-	-	8	2,440
Residential	-	1	-	386	-	-	-	-	23
Commerce and Public Services	2	19	-	641	-	-	-	7	556
Agriculture	-	-	-	2,052	147	-	-	1	1,861
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	3,998	-	93	-	5	-
2012									
Indigenous Production	239,898	-	23,044	-	-	-	-	-	-
Import	-	24	24,095	18,154	2,864	-	1,896	1	9,560
Export	-194,620	-386	-14,638	-2,336	-157	-	-2	-	-111
International Marine Bunkers	-	-	-	-859	-	-	-	-	-73
International Aviation Bunkers	-	-	-	-3,183	-	-	-3,183	-	-
Stock Changes	1,717	21	289	-185	13	8	10	-1	-78
Total Primary Energy Supply	46,996	-341	32,791	11,591	2,720	8	-1,280	-	9,298
Transfers	-	-	720	3,679	-	-	-	-	-
Total Transformation Sector	-45,138	1,554	-32,831	30,620	12,472	164	4,624	10	9,928
Main Activity Producer	-42,156	-33	-	-207	-	-	-	-	-158
Autoproducers	-	-69	-	-659	-	-	-	-	-515
Gas Processing	-	-	-	-6	-	-	-	-	-
Petroleum Refineries	-	-	-33,054	31,492	12,472	164	4,624	10	10,601
Coal Transformation	-2,981	1,656	-	-	-	-	-	-	-
Other Transformation	-	-	223	-	-	-	-	-	-
Loss & Own Use	-	-539	-58	-3,754	-	-	-	-3	-2,121
Discrepancy	121	34	-606	-772	226	-	-765	10	-714
Total Final Energy Consumption	1,979	708	16	41,364	15,417	172	2,579	17	16,390
Industry Sector	1,825	689	16	4,046	5	-	-	4	2,715
Iron and Steel	11	533	-	10	-	-	-	-	9
Chemical & Petrochemical	150	36	-	164	-	-	-	2	128
Non-metallic Minerals	526	9	-	447	-	-	-	2	21
Other Industries	1,138	112	16	3,425	5	-	-	-	2,556
Transport Sector	148	-	-	30,157	15,268	-	2,579	-	11,259
Domestic Air Transport	-	-	-	2,640	62	-	2,579	-	-
Road	-	-	-	25,992	15,207	-	-	-	9,861
Rail	-	-	-	911	-	-	-	-	910
Inland Waterways	148	-	-	551	-	-	-	-	434
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	63	-	-	-	-	54
Other Sector	6	19	-	3,042	144	-	-	8	2,417
Residential	-	1	-	378	-	-	-	-	24
Commerce and Public Services	6	18	-	639	-	-	-	7	555
Agriculture	-	-	-	2,026	144	-	-	1	1,838
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	4,119	-	172	-	5	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	52,123	1,563	-	1,266	5,056	-	-	343,920
1,527	538	-	-	1,751	5,603	-	-	-	0	-	-	50,884
-213	-1,480	-	-	-414	-28,000	-	-	-	-	-	-	-260,589
-656	-	-	-	-	-	-	-	-	-	-	-	-694
-	-	-	-	-	-	-	-	-	-	-	-	-3,372
-40	83	-	-	123	-	-	-	-	-	-	-	-974
619	-859	-	-	1,459	29,727	1,563	-	1,266	5,056	-	-	129,176
-	2,165	-	513	722	-	-	-	-	-	-	-	4,262
748	701	859	-	961	-11,489	-1,563	-	-960	-771	21,411	-	-37,263
-45	-	-	-	-	-8,584	-1,563	-	-632	-316	19,995	-	-32,744
-111	-	-	-	-53	-2,591	-	-	-328	-238	1,416	-	-2,485
-	-3	-	-	-	-269	-	-	-	-	-	-	-272
904	704	859	-	1,014	-	-	-	-	-	-	-	-549
-	-	-	-	-	-46	-	-	-	-	-	-	-1,211
-	-	-	-	-	-	-	-	-	-217	-	-	-0
-72	-9	-839	-38	-692	-7,042	-	-	-	-	-3,694	-	-15,410
-534	22	-0	-	974	2,273	-	-	-0	-0	1	-	-487
760	2,019	21	475	3,425	13,469	-	-	307	4,284	17,718	-	80,278
738	253	21	-	314	7,816	-	-	-	2,976	6,803	-	24,708
-	-	-	-	-	355	-	-	-	-	266	-	1,166
13	-	21	-	-	1,482	-	-	-	104	371	-	2,330
11	113	-	-	314	1,235	-	-	-	35	394	-	2,588
713	140	-	-	-	4,744	-	-	-	2,837	5,772	-	18,625
20	964	-	-	7	516	-	-	-	-	337	-	31,143
-	-	-	-	-	-	-	-	-	-	-	-	2,838
-	958	-	-	-	66	-	-	-	-	-	-	26,161
-	1	-	-	-	-	-	-	-	-	204	-	1,177
20	-	-	-	-	-	-	-	-	-	-	-	322
-	-	-	-	-	400	-	-	-	-	0	-	401
-	5	-	-	7	50	-	-	-	-	133	-	244
2	482	-	-	-	4,396	-	-	307	1,308	10,578	-	19,689
-	362	-	-	-	3,329	-	-	298	1,261	5,195	-	10,469
2	76	-	-	-	1,048	-	-	9	47	5,192	-	6,958
-	43	-	-	-	19	-	-	-	-	191	-	2,262
-	-	-	-	-	-	-	-	-	-	-	-	-
-	320	-	475	3,104	741	-	-	-	-	-	-	4,738
-	-	-	-	-	45,633	1,206	-	1,042	4,960	-	-	315,784
1,518	598	-	-	1,717	4,997	-	-	-	-	-	-	47,270
-468	-1,315	-	-	-283	-22,516	-	-	-	-	-	-	-234,496
-786	-	-	-	-	-	-	-	-	-	-	-	-859
-	-	-	-	-	-	-	-	-	-	-	-	-3,183
18	-52	-	-	-102	-	-	-	-	-	-	-	1,843
283	-769	-	-	1,331	28,114	1,206	-	1,042	4,960	-	-	126,358
-	2,333	-	526	820	-	-	-	-	-	-	-	4,399
823	719	917	-	963	-11,130	-1,206	-	-747	-900	21,496	-	-38,282
-16	-	-	-	-33	-8,484	-1,206	-	-527	-181	19,804	-	-32,993
-120	-	-	-	-24	-2,602	-	-	-220	-496	1,692	-	-2,352
-	-6	-	-	-	4	-	-	-	-	-	-	-2
960	725	917	-	1,020	-	-	-	-	-	-	-	-1,562
-	-	-	-	-	-48	-	-	-	-	-	-	-1,373
-	-	-	-	-	-	-	-	-	-223	-	-	-0
-23	-13	-895	-27	-672	-6,485	-	-	-	-	-3,402	-	-14,238
-202	-312	-0	-0	987	2,382	-	-	-0	0	-0	-	1,160
880	1,958	22	499	3,428	12,881	-	-	295	4,060	18,094	-	79,397
759	261	22	-	280	7,448	-	-	-	2,686	6,876	-	23,587
-	1	-	-	-	362	-	-	-	-	316	-	1,232
12	-	22	-	-	1,300	-	-	-	140	373	-	2,164
11	132	-	-	280	1,266	-	-	-	18	387	-	2,652
736	128	-	-	-	4,520	-	-	-	2,529	5,800	-	17,539
117	929	-	-	6	475	-	-	-	-	350	-	31,130
-	-	-	-	-	-	-	-	-	-	-	-	2,640
-	924	-	-	-	57	-	-	-	-	-	-	26,049
-	1	-	-	-	-	-	-	-	-	195	-	1,106
117	-	-	-	-	-	-	-	-	-	-	-	699
-	-	-	-	-	389	-	-	-	-	0	-	390
-	3	-	-	6	28	-	-	-	-	155	-	246
4	469	-	-	-	4,308	-	-	295	1,374	10,868	-	19,911
-	353	-	-	-	3,243	-	-	286	1,345	5,337	-	10,589
4	73	-	-	-	1,052	-	-	9	29	5,240	-	6,993
-	43	-	-	-	12	-	-	-	-	199	-	2,237
-	-	-	-	-	-	-	-	-	-	92	-	92
-	300	-	499	3,143	650	-	-	-	-	-	-	4,769

Major Energy Indicators of Australia

ktoe

	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	86,193	108,108	113,485	127,191	124,479	125,996	126,358	129,176
Indigenous Production	157,529	233,563	265,171	295,345	310,749	299,608	315,784	343,920
Import	14,398	26,382	31,110	41,039	43,002	46,422	47,270	50,884
Export	-78,919	-153,520	-179,860	-203,526	-228,634	-226,075	-234,496	-260,589
Final Energy Consumption	56,471	69,578	72,132	74,988	76,421	78,095	79,397	80,278
Industry	19,133	23,789	22,170	21,919	22,417	22,696	23,587	24,708
Transport	21,111	25,658	27,143	29,240	29,643	30,517	31,130	31,143
Residential	7,490	9,061	9,287	10,164	10,364	10,543	10,589	10,469
Commerce & Public Services	3,482	5,041	6,236	6,961	7,015	6,987	6,993	6,958
Others	5,255	6,029	7,296	6,704	6,982	7,352	7,098	7,001
Coal, Coal Products								
Primary Energy Supply	34,941	48,147	51,035	52,684	50,044	48,179	46,655	45,676
Indigenous Production	106,103	164,578	201,579	223,333	236,405	222,573	239,898	263,819
Import	-	-	14	4	9	35	24	26
Export	-67,267	-121,426	-150,990	-169,048	-190,147	-184,069	-195,005	-217,065
Transformation Sector	-30,350	-43,617	-45,663	-48,354	-45,487	-43,777	-43,584	-42,649
Power Generation	-28,773	-42,200	-44,164	-46,966	-43,818	-41,840	-42,258	-41,484
Final Energy Consumption	4,214	4,126	3,502	3,125	3,115	2,981	2,687	2,796
Industry	4,003	3,990	3,248	2,914	2,913	2,831	2,515	2,630
Transport	72	88	181	176	171	121	148	144
Residential	12	2	3	1	1	1	1	1
Commerce & Public Services	126	45	69	34	30	27	24	21
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	33,075	36,578	33,973	30,502	30,512	32,986	32,791	32,279
Indigenous Production	29,027	33,911	25,673	24,510	23,907	23,092	23,044	20,093
Import	10,210	22,314	21,377	19,880	22,328	25,963	24,095	25,241
Export	-5,856	-19,365	-13,190	-13,914	-15,152	-16,469	-14,638	-13,232
Transformation Sector	-30,675	-37,538	-34,076	-32,821	-31,973	-33,689	-32,831	-31,730
Petroleum Refineries	-30,675	-37,538	-34,095	-33,056	-32,168	-33,927	-33,054	-31,947
Petroleum Products								
Primary Energy Supply	-1,873	-2,425	2,940	8,967	9,526	8,614	11,591	13,611
Import	4,188	4,068	9,719	15,599	15,813	14,811	18,154	20,014
Export	-3,447	-3,463	-3,296	-2,544	-2,442	-2,199	-2,336	-2,292
Transformation Sector	31,064	37,687	33,544	32,083	30,829	32,501	30,620	30,490
Power Generation	-946	-525	-824	-900	-785	-788	-866	-904
Petroleum Refineries	32,061	38,258	34,399	32,996	31,624	33,296	31,492	31,397
Final Energy Consumption	28,995	34,714	36,723	38,393	39,065	40,507	41,364	41,691
Industry	2,886	3,548	3,243	3,252	3,355	3,501	4,046	4,468
Transport	20,874	25,064	26,300	28,258	28,688	29,596	30,157	30,146
Residential	378	350	293	375	366	385	378	386
Commerce & Public Services	256	313	493	622	624	625	639	641
Others	4,601	5,440	6,393	5,887	6,031	6,400	6,145	6,050
Natural Gas								
Primary Energy Supply	14,790	19,275	18,972	29,328	28,440	29,919	28,114	29,727
Indigenous Production	17,140	28,540	31,355	41,792	44,480	47,645	45,633	52,123
Import	-	-	-	5,557	4,852	5,611	4,997	5,603
Export	-2,350	-9,265	-12,383	-18,020	-20,892	-23,337	-22,516	-28,000
Transformation Sector	-3,908	-4,356	-5,691	-9,262	-9,361	-10,859	-11,130	-11,489
Power Generation	-3,471	-4,060	-5,407	-9,204	-9,292	-10,796	-11,086	-11,175
Final Energy Consumption	8,811	11,459	12,452	12,381	12,837	13,007	12,881	13,469
Industry	5,667	7,165	7,647	7,268	7,507	7,597	7,448	7,816
Transport	10	304	364	440	445	461	475	516
Residential	1,934	2,564	2,777	3,040	3,102	3,185	3,243	3,329
Commerce & Public Services	750	1,084	966	1,016	1,048	1,059	1,052	1,048
Others	450	341	697	619	736	705	662	760
Electricity								
Power Generation	13,269	18,048	19,638	21,387	21,693	21,779	21,496	21,411
Thermal	11,343	15,938	16,256	19,227	19,327	19,107	18,866	18,334
Hydro	1,217	1,407	1,317	1,015	1,161	1,441	1,206	1,563
Nuclear	-	-	-	-	-	-	-	-
Others	709	703	2,065	1,146	1,206	1,232	1,424	1,514
Final Energy Consumption	11,112	14,856	16,274	17,758	17,995	18,199	18,094	17,718
Industry	5,090	6,624	6,369	6,769	6,877	7,031	6,876	6,803
Transport	155	201	297	366	339	338	350	337
Residential	3,315	4,194	4,717	5,165	5,282	5,329	5,337	5,195
Commerce & Public Services	2,348	3,590	4,685	5,260	5,281	5,253	5,240	5,192
Others	204	248	206	199	215	247	291	191

Major Economic Indicators of Australia

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	17.07	19.15	20.39	21.69	22.03	22.34	22.73	23.13
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	637.16	881.34	1,033.97	1,165.69	1,188.57	1,216.16	1,261.49	1,293.18
Real Term (Billions of 2010 Price and 2010 PPP)	461.64	638.55	749.14	844.57	861.14	881.13	913.98	936.94
Nominal (Billions of Current USD)	315.42	383.10	704.31	981.19	1,188.57	1,452.21	1,540.72	1,468.32
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	37,337	46,016	50,698	53,739	53,948	54,439	55,503	55,919
Real Term (2010 Price and 2010 PPP)	27,051	33,340	36,732	38,935	39,086	39,442	40,213	40,515
Nominal (Current USD)	18,483	20,002	34,534	45,234	53,948	65,005	67,789	63,492
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	404.07	660.78	922.28	1,258.07	1,295.73	1,407.87	1,488.03	1,520.94
Household Final Consumption Expenditure	222.60	383.68	533.50	683.99	717.52	759.36	799.39	836.42
General Government Final Consumption Expenditure	69.23	116.71	160.73	220.68	233.31	251.43	266.09	269.92
Gross Fixed Capital Formation	111.98	171.98	249.37	354.93	359.68	376.35	419.26	430.84
Stock Change	5.19	1.85	3.72	-2.81	-2.18	6.07	5.18	2.48
Exports of Goods and Services	61.17	128.42	166.63	283.46	252.15	298.05	317.29	302.40
Imports of Goods and Services	69.20	141.85	191.68	282.18	264.75	283.40	319.19	321.12
Real GDP & its Components (Billions of 2013 AUD) *1								
Gross Domestic Product	749.38	1,036.57	1,216.08	1,371.00	1,397.90	1,430.35	1,483.68	1,520.94
Household Final Consumption Expenditure	394.41	545.75	665.88	754.13	771.41	800.14	820.45	836.42
General Government Final Consumption Expenditure	137.51	185.45	215.62	246.94	251.39	259.93	269.97	269.92
Gross Fixed Capital Formation	144.95	213.85	278.58	357.76	365.28	379.09	422.60	430.84
Stock Change	11.86	1.79	7.62	-5.24	-1.70	4.59	4.23	2.51
Exports of Goods and Services	94.93	202.60	228.08	256.03	269.19	271.69	285.36	302.40
Imports of Goods and Services	66.77	128.45	185.66	243.57	259.23	285.81	318.91	321.12
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	2.6	2.7	2.5	2.5	2.4	2.4	2.4	2.3
Industry	27.7	25.5	24.6	24.6	24.8	24.6	25.1	25.1
Services, etc.	62.4	64.4	65.6	66.1	66.2	66.3	66.0	66.2
Industrial Production Index (2010=100) *2	72.2	90.2	94.4	95.6	100.0	101.1	104.6	106.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	39.752	63.870	106.097	154.331	212.634	270.387	256.423	252.643
Imports, c.i.f.	41.985	71.529	125.281	165.471	201.639	243.701	260.940	242.132
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.496	-4.889	-14.265	-7.475	11.336	22.481	-12.187	4.283
Current Account	-15.533	-15.489	-43.342	-48.898	-44.714	-44.525	-68.009	-49.954
Overall Balance	1.263	-2.142	5.965	7.557	-0.466	4.681	1.402	5.388
Foreign Exchange Rate (AUD/USD) *1	1.281	1.725	1.309	1.282	1.090	0.969	0.966	1.036
PPP conversion factor, GDP (AUD/International Dollar) *1	1.364	1.310	1.388	1.443	1.505	1.511	1.522	1.522
Price Indices								
GDP Deflator (2013=100) *3	53.9	63.7	75.8	91.8	92.7	98.4	100.3	100.0
Manufacturing Output (2010=100) *2	66.4	75.9	86.7	98.1	100.0	103.4	102.9	104.0
Consumer Price Index (2010=100) *2	59.8	74.4	86.4	97.2	100.0	103.3	105.1	107.7
Growth Rate (%) *3								
Real GDP	3.53	3.87	3.22	1.73	1.96	2.32	3.73	2.51
Population	1.49	1.20	1.33	2.08	1.57	1.40	1.74	1.75
Price								
Manufacturing Output	5.97	7.15	5.96	-5.43	1.92	3.39	-0.47	1.08
Consumer Price Index	7.27	4.48	2.67	1.82	2.85	3.30	1.76	2.45

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

3.2 Brunei Darussalam

Energy Balance Table of Brunei Darussalam

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	-	-	7,133	-	-	-	-	-	-
Import	-	-	10	299	106	-	17	-	160
Export	-	-	-6,707	-87	-	-	-4	-	-5
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-88	-	-	-88	-	-
Stock Changes	-	-	44	-9	-1	-	1	-	-7
Total Primary Energy Supply	-	-	479	115	105	-	-75	-	148
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-479	514	178	-	77	-	132
Main Activity Producer	-	-	-	-11	-	-	-	-	-11
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	17	-	-	-	-	-
Petroleum Refineries	-	-	-479	507	178	-	77	-	143
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-16	-	-	-	-	-
Discrepancy	-	-	0	21	4	-	-2	7	12
Total Final Energy Consumption	-	-	-	634	287	-	-	7	292
Industry Sector	-	-	-	139	-	-	-	7	115
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	15	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	124	-	-	-	7	115
Transport Sector	-	-	-	447	287	-	-	-	159
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	447	287	-	-	-	159
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	35	-	-	-	0	18
Residential	-	-	-	17	-	-	-	0	0
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	0	-	-	-	-	0
Non-specified Others	-	-	-	18	-	-	-	-	18
Non-energy	-	-	-	13	-	-	-	-	-
2012									
Indigenous Production	-	-	8,448	-	-	-	-	-	-
Import	-	-	8	377	124	-	34	-	204
Export	-	-	-7,896	-77	-	-	-8	-	-5
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-85	-	-	-85	-	-
Stock Changes	-	-	-31	6	-1	-	3	-	4
Total Primary Energy Supply	-	-	530	220	123	-	-57	-	203
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-513	445	156	-	57	-	107
Main Activity Producer	-	-	-	-11	-	-	-	-	-11
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	17	-	-	-	-	-
Petroleum Refineries	-	-	-513	438	156	-	57	-	118
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-12	-	-	-	-	-
Discrepancy	-	-	-17	13	3	-	-1	7	3
Total Final Energy Consumption	-	-	-	666	282	-	-	7	314
Industry Sector	-	-	-	185	-	-	-	7	144
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	185	-	-	-	7	144
Transport Sector	-	-	-	451	282	-	-	-	169
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	451	282	-	-	-	169
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	17	-	-	-	0	0
Residential	-	-	-	17	-	-	-	0	0
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	0	-	-	-	-	0
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	14	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	11,216	-	-	0	-	-	-	18,349
-	-	-	-	16	-	-	-	-	-	-	-	309
-78	-	-	-	-	-8,932	-	-	-	-	-	-	-15,726
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	-1	-32	-	-	-	-	-	-	-88
-78	0	-	-	15	2,252	-	-	0	-	-	-	2,847
-	-	-	-	-	-	-	-	-	-	-	-	-
78	17	32	-	-	-813	-	-	-0	-	379	-	-400
-	-	-	-	-	-1,105	-	-	-0	-	339	-	-777
-	-	-	-	-	-157	-	-	-	-	40	-	-117
-	17	-	-	-	449	-	-	-	-	-	-	466
78	-	32	-	-	-	-	-	-	-	-	-	28
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-16	-	-	-1,227	-	-	-	-	-69	-	-1,312
-	-1	-0	-	1	-1	-	-	-	-	-38	-	-18
-	17	15	-	16	211	-	-	-	-	271	-	1,116
-	-	15	-	2	-	-	-	-	-	16	-	156
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	15	-	-	-	-	-	-	-	1	-	16
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	2	-	-	-	-	-	15	-	139
-	-	-	-	1	-	-	-	-	-	-	-	447
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-	-	-	-	-	447
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	17	-	-	-	23	-	-	-	-	255	-	313
-	17	-	-	-	23	-	-	-	-	115	-	155
-	-	-	-	-	-	-	-	-	-	140	-	140
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	18
-	-	-	-	13	187	-	-	-	-	-	-	200
-	-	-	-	-	11,532	-	-	0	-	-	-	19,980
-	-	-	-	15	-	-	-	-	-	-	-	384
-64	-	-	-	-	-8,875	-	-	-	-	-	-	-16,848
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	0	-12	-	-	-	-	-	-	-85
-64	0	-	-	15	2,644	-	-	0	-	-	-	3,394
-	-	-	-	-	-	-	-	-	-	-	-	-
64	17	43	-	-	-836	-	-	-0	-	338	-	-566
-	-	-	-	-	-1,107	-	-	-0	-	303	-	-815
-	-	-	-	-	-159	-	-	-	-	35	-	-124
-	17	-	-	-	430	-	-	-	-	-	-	448
64	-	43	-	-	-	-	-	-	-	-	-	-74
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-12	-	-	-1,150	-	-	-	-	-62	-	-1,225
0	-0	0	-	0	15	-	-	-	-	-0	-	11
-	17	31	-	16	673	-	-	-	-	276	-	1,615
-	-	31	-	2	-	-	-	-	-	18	-	203
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	31	-	2	-	-	-	-	-	18	-	203
-	-	-	-	-	-	-	-	-	-	-	-	451
-	-	-	-	-	-	-	-	-	-	-	-	451
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	17	-	-	-	26	-	-	-	-	258	-	300
-	17	-	-	-	26	-	-	-	-	115	-	158
-	-	-	-	-	-	-	-	-	-	143	-	143
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	14	648	-	-	-	-	-	-	661

Major Energy Indicators of Brunei Darussalam

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	2,148	2,090	3,722	2,679	3,706	3,361	3,394	2,847
Indigenous Production	15,899	17,258	21,589	19,905	20,630	20,666	19,980	18,349
Import	67	24	54	109	155	276	384	309
Export	-13,780	-15,245	-17,866	-17,104	-17,154	-17,424	-16,848	-15,726
Final Energy Consumption	422	745	871	955	981	1,450	1,615	1,116
Industry	82	170	164	209	205	179	203	156
Transport	177	258	317	352	395	431	451	447
Residential	45	38	138	150	144	147	158	155
Commerce & Public Services	-	-	119	62	134	141	143	140
Others	118	279	133	181	104	552	661	218
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	327	600	720	788	698	723	530	479
Indigenous Production	7,752	9,092	10,430	9,284	9,219	8,859	8,448	7,133
Import	-	10	14	17	14	11	8	10
Export	-7,424	-8,616	-9,739	-8,369	-8,718	-8,078	-7,896	-6,707
Transformation Sector	-256	-645	-703	-769	-733	-708	-513	-479
Petroleum Refineries	-256	-645	-703	-769	-733	-708	-513	-479
Petroleum Products								
Primary Energy Supply	35	-34	-14	22	34	33	220	115
Import	67	15	41	93	142	265	377	299
Export	-3	-1	-	-	-	-121	-77	-87
Transformation Sector	345	568	621	628	636	605	445	514
Power Generation	-3	-5	-7	-9	-10	-10	-11	-11
Petroleum Refineries	347	573	628	637	645	599	438	507
Final Energy Consumption	308	510	582	646	664	624	666	634
Industry	46	119	115	161	150	160	185	139
Transport	177	258	317	352	395	431	451	447
Residential	12	15	17	18	16	17	17	17
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	72	118	133	115	104	17	14	30
Natural Gas								
Primary Energy Supply	1,785	1,524	3,016	1,868	2,975	2,605	2,644	2,252
Indigenous Production	8,138	8,152	11,143	10,604	11,410	11,807	11,532	11,216
Import	-	-	-	-	-	-	-	-
Export	-6,352	-6,628	-8,127	-8,735	-8,436	-9,224	-8,875	-8,932
Transformation Sector	-1,879	-1,780	-2,534	-1,464	-1,733	-720	-836	-813
Power Generation	-1,199	-1,447	-1,991	-1,985	-1,303	-1,225	-1,266	-1,262
Final Energy Consumption	32	22	25	30	31	562	673	211
Industry	-	-	-	-	4	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential	32	22	25	26	27	27	26	23
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	3	-	535	648	187
Electricity								
Power Generation	101	244	281	311	326	320	338	379
Thermal	101	244	281	311	326	320	338	378
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	0	0	0
Final Energy Consumption	82	213	264	279	286	264	276	271
Industry	36	51	49	48	51	19	18	16
Transport	-	-	-	-	-	-	-	-
Residential	-	-	96	105	102	103	115	115
Commerce & Public Services	-	-	119	62	134	141	143	140
Others	46	161	-	63	-	-	-	-

Major Economic Indicators of Brunei Darussalam

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	0.26	0.33	0.36	0.39	0.39	0.40	0.41	0.41
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	8.66	10.80	11.97	12.06	12.37	12.79	12.92	12.69
Real Term (Billions of 2010 Price and 2010 PPP)	19.40	24.21	26.83	27.02	27.72	28.67	28.95	28.44
Nominal (Billions of Current USD)	3.52	6.00	9.53	10.73	12.37	16.69	16.95	16.11
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	33,697	32,683	33,079	31,149	31,453	32,032	31,851	30,838
Real Term (2010 Price and 2010 PPP)	75,514	73,244	74,129	69,805	70,486	71,783	71,379	69,108
Nominal (Current USD)	13,702	18,155	26,338	27,727	31,453	41,787	41,809	39,152
Nominal GDP & its Components (Billions of Current BND) *1								
Gross Domestic Product	6.381	10.346	15.864	15.611	16.867	20.996	21.185	20.158
Household Final Consumption Expenditure	1.690	2.569	3.563	3.803	3.909	4.089	4.333	4.492
General Government Final Consumption Expenditure	1.405	2.671	2.920	3.636	3.781	3.567	3.659	3.692
Gross Fixed Capital Formation	1.192	1.341	1.801	2.740	2.678	2.750	2.880	3.087
Stock Change	0.000	0.010	0.002	0.001	0.001	0.001	0.001	0.000
Exports of Goods and Services	3.944	6.968	11.132	11.362	13.737	16.726	17.237	15.351
Imports of Goods and Services	2.378	3.706	4.329	5.587	5.545	5.995	6.605	6.548
Real GDP & its Components (Billions of 2000 BND) *1								
Gross Domestic Product	8.291	10.346	11.464	11.546	11.846	12.253	12.369	12.152
Household Final Consumption Expenditure	2.023	2.569	3.485	3.940	4.011	4.158	4.376	4.499
General Government Final Consumption Expenditure	2.114	2.671	2.872	3.910	4.055	3.907	3.987	4.029
Gross Fixed Capital Formation	1.546	1.341	1.716	2.486	2.398	2.448	2.521	2.661
Stock Change	0.000	0.010	0.001	0.000	0.001	0.001	0.001	0.000
Exports of Goods and Services	4.915	6.968	7.486	6.230	5.744	6.700	6.462	5.932
Imports of Goods and Services	2.977	3.706	4.251	5.515	5.500	6.130	6.911	6.804
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.8	1.0	1.3	1.2	1.1	1.1	1.3	1.2
Industry	63.3	63.7	61.2	53.0	52.5	52.4	51.0	48.9
Services, etc.	35.9	35.3	37.5	45.8	46.3	46.4	47.8	49.9
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.	2.213	3.903	6.249	7.200	8.907	12.465	13.001	11.448
Imports, c.i.f.	1.001	1.107	1.491	2.449	2.538	3.629	3.572	3.612
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	4.829	4.889	N.A.	N.A.	8.766	N.A.
Current Account	N.A.	N.A.	4.033	3.977	N.A.	N.A.	5.684	N.A.
Overall Balance	N.A.	N.A.	3.942	5.574	N.A.	N.A.	2.765	N.A.
Foreign Exchange Rate (BND/USD) *1	1.813	1.724	1.664	1.455	1.364	1.258	1.250	1.251
PPP conversion factor, GDP (BND/International Dollar) *1	0.499	0.528	0.651	0.585	0.608	0.717	0.704	0.672
Price Indices								
GDP Deflator (2000=100) *3	77.0	100.0	138.4	135.2	142.4	171.4	171.3	165.9
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	95.0	95.5	99.6	100.0	102.0	102.5	102.9
Growth Rate (%) *3								
Real GDP	1.09	2.85	0.39	-1.76	2.60	3.43	0.95	-1.75
Population	2.88	2.08	1.74	1.65	1.61	1.56	1.52	1.48
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	1.56	1.24	1.04	0.36	2.02	0.46	0.38

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 Price of Brunei Darussalam in 2013

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	1.251
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 (WAP)	USD/bbl	115.03
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG			LPG		
per 10kg			per 10kg			per 10kg	BND	10.00
per 44kg			per 44kg			per 44kg	BND	34.56
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline			Motor Gasoline		
Aviation Gasoline			Regular			Regular	BND/liter	0.36
Regular	USD/liter	0.688	Premium			Premium	BND/liter	0.53
Premium	USD/liter	0.764	Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel	BND/liter	0.982
Kerosene Type Jet Fuel	USD/liter	0.774	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel	BND/liter	0.198
Other Kerosene	USD/liter	0.774	Other Kerosene			Other Kerosene	BND/liter	0.310
Gas/Diesel Oil	USD/liter	0.776	Gas/Diesel Oil			Gas/Diesel Oil		
Fuel Oil			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			Natural Gas			Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas			LNG (WAP)	USD/MMBTU	16.38
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial & Commercial		
						-Less than 10 kWh	BND/kWh	0.20
						-Next 100 kWh	BND/kWh	0.07
						-Next 100 kWh	BND/kWh	0.06
						-All above 170 kWh	BND/kWh	0.05
						Residential		
						-Less than 10 kWh	BND/kWh	0.25
						-Next 60 kWh	BND/kWh	0.15
						-Next 100 kWh	BND/kWh	0.10
						-All above 170 kWh	BND/kWh	0.05
						Others	BND/kWh	0.10
Other Energy Products			Other Energy Products			Other Energy Products		

3.3 Canada

Energy Balance Table of Canada

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	35,039	-	195,249	-	-	-	-	-	-
Import	5,147	208	37,081	10,862	2,531	6	1,844	270	1,041
Export	-23,402	-19	-139,121	-24,718	-6,539	-593	-492	-75	-8,014
International Marine Bunkers	-	-	-	-408	-	-	-	-	-32
International Aviation Bunkers	-	-	-	-826	-	-	-826	-	-
Stock Changes	309	90	-289	551	199	-44	39	20	331
Total Primary Energy Supply	17,093	279	92,920	-14,538	-3,809	-631	566	214	-6,674
Transfers	-	-	-6,764	28,613	8,050	1,195	562	63	3,893
Total Transformation Sector	-18,545	834	-90,318	95,150	32,248	3,291	3,985	635	31,874
Main Activity Producer	-16,079	-	-	-1,360	-29	-	-	-	-127
Autoproducers	-	-	-	-513	-	-	-	-	-95
Gas Processing	-	-	2,237	-	-	-	-	-	-
Petroleum Refineries	-	-	-94,388	97,023	32,276	3,291	3,985	635	32,096
Coal Transformation	-2,466	834	-	-	-	-	-	-	-
Other Transformation	-	-	1,832	-	-	-	-	-	-
Loss & Own Use	-	-	-	-8,823	-1	-38	-18	-1	-774
Discrepancy	2,657	334	4,162	-4,537	-281	91	264	-702	259
Total Final Energy Consumption	1,206	1,447	-	95,865	36,205	3,909	5,360	209	28,579
Industry Sector	1,010	1,179	-	7,619	791	-	35	44	4,335
Iron and Steel	-	1,138	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	22	-	-	-	-	-
Non-metallic Minerals	542	-	-	397	-	-	-	-	-
Other Industries	468	41	-	7,201	791	-	35	44	4,335
Transport Sector	-	-	-	57,978	33,517	-	4,871	-	18,106
Domestic Air Transport	-	-	-	4,802	21	-	4,781	-	-
Road	-	-	-	49,007	33,484	-	-	-	15,289
Rail	-	-	-	2,126	-	-	-	-	2,126
Inland Waterways	-	-	-	1,520	-	-	-	-	645
Pipeline Transport	-	-	-	17	-	-	-	-	17
Non-specified Transport	-	-	-	505	11	-	89	-	28
Other Sector	14	-	-	10,308	1,898	-	454	165	6,139
Residential	14	-	-	2,053	-	-	-	60	1,658
Commerce and Public Services	-	-	-	3,631	524	-	454	106	1,659
Agriculture	-	-	-	4,624	1,374	-	-	-	2,823
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	181	268	-	19,960	-	3,909	-	-	-
2012									
Indigenous Production	33,481	-	183,662	-	-	-	-	-	-
Import	6,319	223	40,052	11,218	3,138	25	1,738	113	739
Export	-20,841	-275	-127,823	-23,021	-6,350	-588	-398	-80	-8,017
International Marine Bunkers	-	-	-	-410	-	-	-	-	-20
International Aviation Bunkers	-	-	-	-1,006	-	-	-1,006	-	-
Stock Changes	91	-93	640	26	105	77	-80	-35	-84
Total Primary Energy Supply	19,051	-146	96,531	-13,193	-3,107	-486	254	-1	-7,383
Transfers	-	-	-6,331	23,502	5,555	938	624	139	3,661
Total Transformation Sector	-18,455	1,108	-92,710	97,364	32,829	3,767	4,020	518	32,626
Main Activity Producer	-15,696	-	-	-1,263	-39	-	-	-	-130
Autoproducers	-	-	-	-516	-	-	-	-	-112
Gas Processing	-	-	2,359	-	-	-	-	-	-
Petroleum Refineries	-	-	-96,803	99,143	32,867	3,767	4,020	518	32,868
Coal Transformation	-2,759	1,108	-	-	-	-	-	-	-
Other Transformation	-	-	1,734	-	-	-	-	-	-
Loss & Own Use	-	-	-	-8,963	-1	-30	-62	-1	-741
Discrepancy	614	521	2,510	-1,098	-18	-1	121	-409	187
Total Final Energy Consumption	1,210	1,483	-	97,612	35,258	4,188	4,957	246	28,351
Industry Sector	1,059	1,277	-	7,923	771	-	48	51	4,312
Iron and Steel	-	1,187	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	21	-	-	-	-	-
Non-metallic Minerals	507	-	-	430	-	-	-	-	-
Other Industries	552	91	-	7,472	771	-	48	51	4,312
Transport Sector	-	-	-	56,835	32,685	-	4,523	-	17,982
Domestic Air Transport	-	-	-	4,419	34	-	4,385	-	-
Road	-	-	-	47,983	32,651	-	-	-	15,041
Rail	-	-	-	2,207	-	-	-	-	2,207
Inland Waterways	-	-	-	1,664	-	-	-	-	701
Pipeline Transport	-	-	-	17	-	-	-	-	17
Non-specified Transport	-	-	-	545	-	-	138	-	16
Other Sector	16	-	-	10,545	1,801	-	386	195	6,056
Residential	16	-	-	2,354	-	-	-	73	1,818
Commerce and Public Services	-	-	-	3,786	509	-	386	120	1,568
Agriculture	-	-	-	4,404	1,291	-	-	1	2,670
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	135	205	-	22,309	-	4,188	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	130,348	33,690	22,756	1,067	12,958	-	-	431,107
984	381	-	-	3,805	22,297	-	-	-	1,003	1,472	-	78,069
-4,408	-643	-	-	-3,953	-68,856	-	-	-	-776	-5,772	-	-262,663
-376	-	-	-	-	-	-	-	-	-	-	-	-408
-	-	-	-	-	-	-	-	-	-	-	-	-826
58	-42	-	-	-10	-	-	-	-	-	-	-	660
-3,743	-304	-	-	-158	83,788	33,690	22,756	1,067	13,185	-4,300	-	245,940
438	4,339	-	6,023	4,050	-	-	-	-	-	-	-	21,850
6,075	1,613	4,239	-	11,190	-16,228	-33,690	-22,756	-1,030	-3,152	54,725	642	-34,367
-361	-	-	-	-843	-8,749	-31,003	-22,756	-1,028	-10	49,802	592	-30,592
-68	-	-293	-	-57	-4,413	-2,687	-	-2	-1,309	4,923	51	-3,950
-	-	-	-	-	-2,198	-	-	-	-	-	-	39
6,504	1,613	4,532	-	12,090	-	-	-	-	-	-	-	2,636
-	-	-	-	-	-	-	-	-	-	-	-	-1,631
-	-	-	-	-	-867	-	-	-	-1,833	-	-	-868
-190	-68	-4,092	-	-3,641	-15,515	-	-	-	-1	-8,954	-	-33,293
-307	-698	-147	-37	-2,980	7,741	-	-	0	2	255	-0	10,614
2,273	4,883	-	5,987	8,461	59,786	-	-	37	10,035	41,726	642	210,744
667	1,196	-	-	551	27,213	-	-	-	6,607	15,523	641	59,793
-	-	-	-	-	1,432	-	-	-	1	780	-	3,351
1	-	-	-	21	4,296	-	-	-	-	1,429	-	5,747
-	-	-	-	397	179	-	-	-	130	176	-	1,424
666	1,196	-	-	134	21,306	-	-	-	6,476	13,138	641	49,272
1,251	234	-	-	-	2,756	-	-	-	-	405	-	61,139
-	-	-	-	-	-	-	-	-	-	-	-	4,802
-	234	-	-	-	32	-	-	-	-	104	-	49,143
-	-	-	-	-	-	-	-	-	-	-	-	2,126
875	-	-	-	-	-	-	-	-	-	-	-	1,520
-	-	-	-	-	2,724	-	-	-	-	301	-	3,042
376	-	-	-	-	-	-	-	-	-	-	-	505
354	1,298	-	-	-	26,236	-	-	37	3,428	25,798	1	65,823
7	329	-	-	-	14,731	-	-	-	3,412	13,531	-	33,741
104	785	-	-	-	10,677	-	-	-	15	8,581	1	22,905
244	184	-	-	-	828	-	-	-	0	856	-	6,310
-	-	-	-	-	-	-	-	37	-	2,831	-	2,868
-	2,154	-	5,987	7,910	3,581	-	-	-	-	-	-	23,990
-	-	-	-	-	129,952	32,700	24,721	1,040	11,918	-	-	417,474
740	703	-	-	4,023	26,077	-	-	-	880	936	-	85,704
-3,740	-546	-	-	-3,302	-73,524	-	-	-	-675	-4,976	-	-251,136
-390	-	-	-	-	-	-	-	-	-	-	-	-410
-	-	-	-	-	-	-	-	-	-	-	-	-1,006
18	-122	-	-	146	-	-	-	-	-	-	-	664
-3,371	35	-	-	867	82,504	32,700	24,721	1,040	12,123	-4,040	-	251,291
240	4,558	-	5,601	2,184	-	-	-	-	-	-	-	17,171
6,525	1,733	4,315	-	11,032	-16,644	-32,700	-24,721	-1,002	-3,053	54,445	636	-35,734
-406	-	-	-	-688	-9,787	-29,945	-24,721	-1,002	-10	49,615	585	-32,224
-71	-	-314	-	-20	-3,640	-2,755	-	-0	-1,309	4,829	51	-3,340
-	-	-	-	-	-2,312	-	-	-	-	-	-	47
7,002	1,733	4,629	-	11,740	-	-	-	-	-	-	-	2,340
-	-	-	-	-	-	-	-	-	-	-	-	-1,651
-	-	-	-	-	-906	-	-	-	-1,734	-	-	-906
-209	-223	-4,342	-	-3,354	-14,438	-	-	-	-1	-8,689	-	-32,091
-578	-288	28	77	-217	4,900	-	-	0	-0	916	-0	8,362
2,606	5,816	-	5,678	10,513	56,322	-	-	37	9,069	42,632	636	208,999
718	1,451	-	-	571	25,991	-	-	-	4,329	14,792	635	56,007
-	-	-	-	-	1,358	-	-	-	1	780	-	3,326
1	-	-	-	20	4,066	-	-	-	-	1,566	-	5,653
-	-	-	-	430	171	-	-	-	125	182	-	1,415
717	1,451	-	-	122	20,397	-	-	-	4,202	12,265	635	45,613
1,353	291	-	-	-	2,478	-	-	-	-	373	-	59,687
-	-	-	-	-	-	-	-	-	-	-	-	4,419
-	291	-	-	-	37	-	-	-	-	95	-	48,116
-	-	-	-	-	-	-	-	-	-	-	-	2,207
963	-	-	-	-	-	-	-	-	-	-	-	1,664
-	-	-	-	-	2,441	-	-	-	-	278	-	2,736
390	-	-	-	-	-	-	-	-	-	-	-	545
535	1,573	-	-	-	24,378	-	-	37	4,740	27,466	0	67,182
46	417	-	-	-	13,589	-	-	-	4,725	13,007	-	33,690
259	943	-	-	-	9,982	-	-	-	15	9,257	0	23,040
229	212	-	-	-	807	-	-	-	0	797	-	6,009
-	-	-	-	-	-	-	-	37	-	4,406	-	4,443
-	2,501	-	5,678	9,942	3,474	-	-	-	-	-	-	26,124

Major Energy Indicators of Canada

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	209,536	244,951	264,205	245,393	244,725	254,960	251,291	245,940
Indigenous Production	273,386	373,478	402,584	389,470	395,553	408,094	417,474	431,107
Import	46,404	72,055	82,681	78,963	78,474	87,057	85,704	78,069
Export	-105,727	-199,764	-217,233	-222,268	-228,165	-239,500	-251,136	-262,663
Final Energy Consumption	158,792	188,746	202,801	195,450	200,242	206,540	208,999	210,744
Industry	46,949	54,425	55,701	51,328	53,065	54,857	56,007	59,793
Transport	43,122	52,142	55,442	57,039	58,769	58,851	59,687	61,139
Residential	28,722	30,876	34,225	33,919	33,102	35,118	33,690	33,741
Commerce & Public Services	21,727	27,109	28,678	26,573	26,062	27,315	23,040	22,905
Others	18,273	24,194	28,755	26,591	29,245	30,399	36,575	33,167
Coal, Coal Products								
Primary Energy Supply	24,276	31,661	27,223	21,904	22,229	20,205	18,905	17,372
Indigenous Production	37,927	34,407	32,078	31,707	33,797	33,658	33,481	35,039
Import	9,547	15,048	12,347	7,310	7,502	6,557	6,542	5,355
Export	-21,442	-19,269	-17,042	-16,942	-19,735	-20,076	-21,116	-23,421
Transformation Sector	-21,399	-28,643	-24,515	-19,967	-20,495	-19,062	-17,347	-17,710
Power Generation	-19,972	-26,964	-22,991	-18,699	-18,948	-17,628	-15,696	-16,079
Final Energy Consumption	2,924	2,939	3,644	2,755	2,754	2,628	2,692	2,653
Industry	2,544	2,638	2,658	1,978	2,072	2,160	2,336	2,190
Transport	-	-	-	-	-	-	-	-
Residential	47	36	46	28	34	19	16	14
Commerce & Public Services	5	1	-	-	-	-	-	-
Others	328	264	941	749	649	449	340	449
Crude Oil								
Primary Energy Supply	82,796	96,681	103,994	93,292	94,505	90,534	96,531	92,920
Indigenous Production	94,146	128,427	146,226	153,347	161,136	170,762	183,662	195,249
Import	27,133	46,941	46,728	40,802	39,350	37,356	40,052	37,081
Export	-37,811	-78,446	-86,972	-101,049	-104,452	-118,503	-127,823	-139,121
Transformation Sector	-85,547	-94,843	-100,258	-93,130	-94,699	-89,508	-92,710	-90,318
Petroleum Refineries	-85,888	-95,419	-101,636	-96,030	-97,850	-93,105	-96,803	-94,388
Petroleum Products								
Primary Energy Supply	-6,283	-8,855	-9,470	-9,550	-9,907	-5,588	-13,193	-14,538
Import	7,673	7,362	14,019	11,954	10,824	15,150	11,218	10,862
Export	-11,857	-14,895	-21,810	-20,711	-20,458	-19,062	-23,021	-24,718
Transformation Sector	82,854	93,296	101,239	97,151	99,447	96,096	97,364	95,150
Power Generation	-3,796	-3,148	-3,801	-2,640	-2,062	-1,799	-1,779	-1,873
Petroleum Refineries	86,651	96,444	105,040	99,791	101,509	97,895	99,143	97,023
Final Energy Consumption	68,787	80,595	90,936	88,677	93,553	95,128	97,612	95,865
Industry	6,787	6,457	7,579	6,902	7,228	7,566	7,923	7,619
Transport	39,944	46,995	50,776	53,985	55,980	56,084	56,835	57,978
Residential	4,659	3,249	3,114	2,826	2,698	2,652	2,354	2,053
Commerce & Public Services	4,077	5,463	6,262	3,426	3,447	3,855	3,786	3,631
Others	13,321	18,431	23,204	21,538	24,200	24,970	26,713	24,584
Natural Gas								
Primary Energy Supply	56,055	67,008	74,575	73,862	72,005	81,505	82,504	83,788
Indigenous Production	88,579	148,361	154,143	135,473	132,426	132,394	129,952	130,348
Import	521	1,329	7,833	17,066	18,730	25,969	26,077	22,297
Export	-33,044	-82,682	-87,402	-78,678	-79,151	-76,858	-73,524	-68,856
Transformation Sector	-2,447	-8,812	-10,007	-12,113	-14,067	-15,712	-16,644	-16,228
Power Generation	-1,868	-7,356	-8,271	-9,565	-11,334	-12,922	-13,427	-13,163
Final Energy Consumption	43,313	53,426	51,194	51,913	52,176	56,171	56,322	59,786
Industry	16,855	19,319	18,414	20,574	22,652	24,117	25,991	27,213
Transport	2,897	4,758	4,299	2,722	2,464	2,437	2,478	2,756
Residential	11,359	13,861	13,899	14,196	13,224	14,665	13,589	14,731
Commerce & Public Services	8,322	10,816	10,853	10,935	10,285	10,826	9,982	10,677
Others	3,880	4,673	3,728	3,486	3,551	4,126	4,282	4,409
Electricity								
Power Generation	41,456	52,081	53,753	52,384	51,512	54,434	54,445	54,725
Thermal	8,610	12,905	12,284	10,439	10,517	10,914	11,183	11,101
Hydro	25,519	30,832	31,125	31,704	30,216	32,309	32,700	33,690
Nuclear	6,347	6,324	7,995	7,826	7,875	8,130	8,240	7,585
Others	980	2,020	2,348	2,414	2,903	3,081	2,321	2,348
Final Energy Consumption	35,952	41,409	43,812	40,924	41,163	41,968	42,632	41,726
Industry	14,443	17,485	18,078	14,850	15,086	15,041	14,792	15,523
Transport	281	389	366	332	324	331	373	405
Residential	11,165	11,888	12,985	12,754	12,625	13,161	13,007	13,531
Commerce & Public Services	9,319	10,821	11,501	12,171	12,320	12,623	9,257	8,581
Others	743	826	881	818	808	812	5,202	3,687

Major Economic Indicators of Canada

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	27.79	30.77	32.31	33.63	34.01	34.34	34.75	35.16
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	1,008.20	1,336.59	1,515.30	1,561.39	1,614.07	1,661.85	1,693.81	1,727.74
Real Term (Billions of 2010 Price and 2010 PPP)	850.81	1,127.93	1,278.74	1,317.63	1,362.09	1,402.41	1,429.38	1,458.01
Nominal (Billions of Current USD)	592.03	739.45	1,164.18	1,370.84	1,614.07	1,788.74	1,832.72	1,838.96
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	36,278	43,438	46,896	46,430	47,465	48,390	48,737	49,142
Real Term (2010 Price and 2010 PPP)	30,614	36,657	39,575	39,182	40,055	40,836	41,128	41,470
Nominal (Current USD)	21,303	24,032	36,029	40,764	47,465	52,085	52,733	52,305
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	690.76	1,098.17	1,410.71	1,567.01	1,662.76	1,770.01	1,831.23	1,893.76
Household Final Consumption Expenditure	385.07	598.19	763.04	896.20	938.77	980.86	1,013.37	1,051.91
General Government Final Consumption Expenditure	155.88	208.89	270.32	352.05	366.35	381.77	394.50	407.76
Gross Fixed Capital Formation	150.96	216.78	310.60	348.30	387.98	414.05	443.60	452.51
Stock Change	-2.78	11.23	11.29	-7.03	0.13	13.13	11.48	11.12
Exports of Goods and Services	173.75	487.67	521.40	445.69	483.21	540.97	553.13	571.81
Imports of Goods and Services	172.52	425.74	466.41	468.70	514.82	562.20	586.96	602.03
Real GDP & its Components (Billions of 2005 CAD) *1								
Gross Domestic Product	938.61	1,244.33	1,410.71	1,453.62	1,502.66	1,547.14	1,576.89	1,608.49
Household Final Consumption Expenditure	506.74	653.38	763.04	854.86	883.56	903.98	921.59	944.39
General Government Final Consumption Expenditure	225.87	240.28	270.32	309.46	317.86	320.35	323.77	325.64
Gross Fixed Capital Formation	181.02	235.77	310.60	306.37	341.45	357.81	375.05	376.55
Stock Change	-2.77	11.88	11.29	-4.75	-0.42	6.93	6.36	11.10
Exports of Goods and Services	221.89	501.04	521.40	441.42	471.74	493.58	506.50	516.70
Imports of Goods and Services	200.70	397.01	466.41	458.89	521.40	550.92	571.35	578.60
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industrial Production Index (2010=100) *2	60.0	82.7	93.7	96.6	100.0	103.0	105.1	107.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	127.629	276.635	360.475	316.094	387.481	451.335	455.592	458.318
Imports, c.i.f.	123.244	244.786	322.411	329.907	402.690	463.640	474.940	474.300
Balance of Payments (Billions of Current USD) *2								
Trade Balance	9.437	44.404	50.572	-6.158	-9.367	0.403	-11.153	-6.965
Current Account	-20.259	18.491	21.910	-40.341	-56.626	-47.810	-59.942	-54.665
Overall Balance	2.525	8.024	2.650	10.796	2.055	14.831	0.920	4.004
Foreign Exchange Rate (CAD/USD) *1	1.167	1.485	1.212	1.143	1.030	0.990	0.999	1.030
PPP conversion factor, GDP (CAD/International Dollar) *1	1.242	1.227	1.214	1.204	1.221	1.240	1.246	1.252
Price Indices								
GDP Deflator (2005=100) *3	73.6	88.3	100.0	107.8	110.7	114.4	116.1	117.7
Industry Selling Price (2010=100) *2	71.2	90.0	94.2	98.5	100.0	106.9	108.1	108.6
Consumer Price Index (2010=100) *2	67.3	81.9	91.9	98.3	100.0	102.9	104.5	105.5
Growth Rate (%) *3								
Real GDP	0.13	5.12	3.16	-2.71	3.37	2.96	1.92	2.00
Population	1.50	0.89	0.99	1.15	1.12	0.99	1.20	1.16
Price								
Industry Selling Price	0.29	4.26	1.64	-3.50	1.50	6.94	1.10	0.41
Consumer Price Index	4.76	2.72	2.21	0.30	1.78	2.91	1.52	0.94

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 Price of Canada in 2013

Currency Exchange Rate

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

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			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	USD/BBL	97.98	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG			LPG		
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	CND Cents/l	81.08	Motor Gasoline	CND Cents/l	128.15
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			Other Kerosene		
Gas/Diesel Oil			Gas/Diesel Oil	CND Cents/l	87.78	Gas/Diesel Oil	CND Cents/l	128.53
Fuel Oil			Fuel Oil	CND Cents/l	86.43	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	CND Cents/l	34.83
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		

3.4 Chile

Energy Balance Table of Chile

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	1,591	-	539	-	-	-	-	-	-
Import	6,155	23	9,647	7,694	595	19	471	8	5,141
Export	-662	-	-	-942	-211	-	-6	-	-443
International Marine Bunkers	-	-	-	-207	-	-	-	-	-8
International Aviation Bunkers	-	-	-	-630	-	-	-630	-	-
Stock Changes	-447	-18	-208	-49	-3	-40	-27	-41	-57
Total Primary Energy Supply	6,638	5	9,978	5,866	381	-20	-192	-32	4,633
Transfers	-	-	645	-606	-62	-96	-	-	-32
Total Transformation Sector	-7,028	202	-10,592	8,434	2,808	119	648	148	2,550
Main Activity Producer	-6,635	-	-	-966	-	-	-	-	-548
Autoproducers	-	-	-	-177	-	-	-	-	-83
Gas Processing	-	-	-	-3	-	-	-	-	-
Petroleum Refineries	-	-	-10,631	9,622	2,808	119	648	148	3,181
Coal Transformation	-393	202	-	-	-	-	-	-	-
Other Transformation	-	-	40	-42	-	-	-	-	-
Loss & Own Use	-4	-182	-	-375	-	-3	-	-	-36
Discrepancy	526	-7	-32	222	5	0	-116	3	-52
Total Final Energy Consumption	132	19	-	13,541	3,132	-	340	118	7,064
Industry Sector	129	19	-	3,321	-	-	34	15	2,327
Iron and Steel	-	-	-	3	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	268	-	-	-	-	2
Other Industries	129	19	-	3,050	-	-	34	15	2,325
Transport Sector	-	-	-	8,076	3,131	-	258	4	4,306
Domestic Air Transport	-	-	-	278	18	-	258	-	2
Road	-	-	-	7,333	3,113	-	-	4	4,173
Rail	-	-	-	45	-	-	-	-	20
Inland Waterways	-	-	-	420	-	-	-	-	112
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	2	-	-	1,700	1	-	48	99	430
Residential	-	-	-	1,028	-	-	-	98	10
Commerce and Public Services	-	-	-	460	1	-	48	1	237
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	2	-	-	211	-	-	-	-	183
Non-energy	-	-	-	444	-	-	-	-	-
2012									
Indigenous Production	295	-	531	-	-	-	-	-	-
Import	5,912	38	8,850	7,730	628	76	480	-	4,980
Export	-	-	-	-874	-260	-	-	-	-415
International Marine Bunkers	-	-	-	-166	-	-	-	-	-9
International Aviation Bunkers	-	-	-	-712	-	-	-712	-	-
Stock Changes	-113	32	125	124	29	12	-23	31	-105
Total Primary Energy Supply	6,094	70	9,507	6,102	397	88	-255	31	4,450
Transfers	-	-	1,079	-1,040	-86	-153	-	-4	-176
Total Transformation Sector	-6,128	188	-10,666	7,426	2,406	64	654	105	1,743
Main Activity Producer	-5,671	-	-	-1,195	-	-	-	-	-745
Autoproducers	-	-	-	-613	-	-	-	-	-474
Gas Processing	-	-	-	-15	-	-	-	-	-
Petroleum Refineries	-	-	-10,677	9,260	2,406	64	654	105	2,961
Coal Transformation	-457	188	-	-	-	-	-	-	-
Other Transformation	-	-	11	-11	-	-	-	-	-
Loss & Own Use	-	-237	-	-331	-	-	-	-	-10
Discrepancy	212	-7	80	431	111	-	-126	-30	466
Total Final Energy Consumption	178	14	-	12,589	2,829	-	274	101	6,473
Industry Sector	175	14	-	2,946	-	-	14	25	2,020
Iron and Steel	-	-	-	1	-	-	-	-	1
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	3	-	-	243	-	-	-	-	6
Other Industries	173	14	-	2,702	-	-	14	25	2,013
Transport Sector	-	-	-	7,391	2,828	-	222	-	4,004
Domestic Air Transport	-	-	-	243	20	-	222	-	1
Road	-	-	-	6,708	2,808	-	-	-	3,867
Rail	-	-	-	46	-	-	-	-	46
Inland Waterways	-	-	-	394	-	-	-	-	91
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	2	-	-	1,769	1	-	38	76	449
Residential	-	-	-	991	-	-	-	75	5
Commerce and Public Services	-	-	-	499	1	-	38	1	249
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	2	-	-	278	-	-	-	-	194
Non-energy	-	-	-	483	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	812	1,697	-	67	10,249	-	-	14,955
108	1,157	-	-	195	3,262	-	-	-	29	-	-	26,810
-206	-76	-	-	-	-	-	-	-	-	-	-	-1,604
-199	-	-	-	-	-	-	-	-	-	-	-	-207
-	-	-	-	-	-	-	-	-	-	-	-	-630
83	-15	-	-	50	-19	-	-	-	64	-	-	-676
-215	1,066	-	-	245	4,055	1,697	-	67	10,342	-	-	38,649
-	8	-	-	-424	-	-	-	-	-	-	-	39
1,025	245	261	-	631	-2,068	-1,697	-	-49	-4,510	6,284	26	-10,998
-84	-	-	-	-334	-1,966	-1,682	-	-47	-553	5,731	-	-6,118
-94	-	-	-	-	-112	-15	-	-2	-3,679	552	26	-3,407
-	-3	-	-	-	10	-	-	-	-	-	-	7
1,202	290	261	-	965	-	-	-	-	-	-	-	-1,009
-	-	-	-	-	-0	-	-	-	-	-	-	-191
-	-42	-	-	-	-	-	-	-	-278	-	-	-280
-33	-42	-261	-	-	-618	-	-	-	-	-780	-	-1,959
180	155	-	-	47	64	0	0	0	-0	102	-26	849
956	1,432	-	-	499	1,432	-	-	19	5,833	5,605	-	26,581
565	121	-	-	260	670	-	-	2	2,096	3,667	-	9,903
-	3	-	-	-	-	-	-	-	-	40	-	43
-	-	-	-	-	138	-	-	-	-	15	-	152
6	-	-	-	260	4	-	-	-	-	49	-	321
559	117	-	-	-	528	-	-	2	2,096	3,562	-	9,386
338	38	-	-	-	28	-	-	-	-	44	-	8,148
-	-	-	-	-	-	-	-	-	-	-	-	278
5	38	-	-	-	28	-	-	-	-	-	-	7,361
25	-	-	-	-	-	-	-	-	-	42	-	86
308	-	-	-	-	-	-	-	-	-	-	-	420
-	-	-	-	-	-	-	-	-	-	2	-	2
-	-	-	-	-	-	-	-	-	-	-	-	-
54	1,068	-	-	-	548	-	-	17	3,737	1,895	-	7,899
-	920	-	-	-	418	-	-	14	3,735	935	-	6,129
28	146	-	-	-	130	-	-	3	2	938	-	1,534
-	-	-	-	-	-	-	-	-	-	-	-	-
26	2	-	-	-	0	-	-	-	-	22	-	236
-	206	-	-	239	187	-	-	-	-	-	-	631
-	-	-	-	-	1,030	1,734	-	54	9,385	-	-	13,028
358	853	-	-	354	3,293	-	-	-	29	-	-	25,851
-140	-2	-	-	-57	-	-	-	-	-	-	-	-874
-157	-	-	-	-	-	-	-	-	-	-	-	-166
-	-	-	-	-	-	-	-	-	-	-	-	-712
-2	19	-	-	164	-36	-	-	-	-52	-	-	80
60	870	-	-	460	4,286	1,734	-	54	9,362	-	-	37,208
-	-146	-	-	-476	-	-	-	-	-	-	-	39
933	644	260	-	617	-2,384	-1,734	-	-35	-3,980	5,999	-	-11,315
-72	-	-	-	-378	-2,336	-1,718	-	-33	-170	5,502	-	-5,622
-139	-	-	-	-	-74	-15	-	-2	-3,531	497	-	-3,738
-	-15	-	-	-	25	-	-	-	-	-	-	11
1,145	670	260	-	995	-	-	-	-	-	-	-	-1,417
-	-	-	-	-	-	-	-	-	-	-	-	-269
-	-11	-	-	-	-	-	-	-	-279	-	-	-280
-46	-14	-260	-	-1	-264	-	-	-	-	-698	-	-1,529
29	66	-	-	-85	-198	-	-	-	0	50	-	569
976	1,420	-	-	516	1,441	-	-	18	5,382	5,351	-	24,973
543	130	-	-	215	625	-	-	2	1,682	3,625	-	9,069
-	-	-	-	-	-	-	-	-	-	47	-	48
-	-	-	-	-	130	-	-	-	-	18	-	148
20	2	-	-	214	5	-	-	-	4	48	-	302
522	128	-	-	1	490	-	-	2	1,678	3,512	-	8,571
303	34	-	-	-	29	-	-	-	-	41	-	7,461
-	-	-	-	-	-	-	-	-	-	-	-	243
-	34	-	-	-	29	-	-	-	-	-	-	6,738
-	-	-	-	-	-	-	-	-	-	39	-	84
303	-	-	-	-	-	-	-	-	-	-	-	394
-	-	-	-	-	-	-	-	-	-	2	-	2
-	-	-	-	-	-	-	-	-	-	-	-	-
130	1,074	-	-	-	532	-	-	17	3,700	1,685	-	7,704
-	911	-	-	-	400	-	-	13	3,700	873	-	5,978
48	162	-	-	-	132	-	-	3	0	800	-	1,435
-	-	-	-	-	-	-	-	-	-	-	-	-
82	2	-	-	-	0	-	-	-	-	11	-	292
-	182	-	-	301	255	-	-	-	-	-	-	738

Major Energy Indicators of Chile

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	14,010	25,171	28,367	29,507	30,947	33,540	37,208	38,649
Indigenous Production	7,929	8,582	9,338	10,198	9,210	9,878	13,028	14,955
Import	7,237	18,633	22,242	21,862	22,924	25,451	25,851	26,810
Export	-211	-889	-1,748	-1,122	-627	-632	-874	-1,604
Final Energy Consumption	11,098	20,378	21,793	22,486	23,842	25,056	24,973	26,581
Industry	3,408	6,641	7,230	8,154	8,694	9,521	9,069	9,903
Transport	3,046	5,665	6,159	6,893	7,143	7,273	7,461	8,148
Residential	3,123	4,863	4,907	5,123	5,324	5,588	5,978	6,129
Commerce & Public Services	478	623	928	1,156	1,368	1,586	1,435	1,534
Others	1,043	2,587	2,569	1,160	1,313	1,089	1,030	867
Coal, Coal Products								
Primary Energy Supply	2,496	3,071	2,703	3,522	4,562	5,345	6,163	6,644
Indigenous Production	1,451	243	269	236	254	245	295	1,591
Import	1,132	2,943	2,442	3,335	3,809	5,454	5,949	6,178
Export	-	-27	-27	-	-	-	-	-662
Transformation Sector	-1,822	-2,336	-1,972	-3,527	-3,999	-5,002	-5,940	-6,826
Power Generation	-1,650	-2,081	-1,713	-3,320	-3,856	-4,786	-5,671	-6,635
Final Energy Consumption	579	595	531	210	389	324	192	151
Industry	522	583	515	200	385	321	190	149
Transport	-	-	-	-	-	-	-	-
Residential	15	-	1	-	-	-	-	-
Commerce & Public Services	3	3	3	3	-	-	-	-
Others	39	9	12	7	5	3	2	2
Crude Oil								
Primary Energy Supply	6,572	10,176	10,894	10,855	9,267	9,973	9,507	9,978
Indigenous Production	1,166	427	355	721	611	641	531	539
Import	5,561	9,975	10,539	10,221	8,659	9,269	8,850	9,647
Export	-	-	-	-	-	-	-	-
Transformation Sector	-6,279	-10,014	-11,241	-11,915	-9,894	-10,918	-10,666	-10,592
Petroleum Refineries	-6,279	-10,014	-11,241	-11,915	-9,894	-10,951	-10,677	-10,631
Petroleum Products								
Primary Energy Supply	-101	301	666	4,511	5,741	5,816	6,102	5,866
Import	544	1,941	3,788	6,944	7,340	7,310	7,730	7,694
Export	-211	-862	-1,721	-1,122	-627	-632	-874	-942
Transformation Sector	5,756	9,284	10,135	7,828	7,146	7,572	7,426	8,434
Power Generation	-476	-457	-941	-2,442	-1,723	-1,429	-1,808	-1,142
Petroleum Refineries	6,276	9,742	11,085	10,346	8,874	9,126	9,260	9,622
Final Energy Consumption	5,488	9,185	9,554	11,641	12,094	12,743	12,589	13,541
Industry	1,339	2,049	2,071	3,157	3,034	3,235	2,946	3,321
Transport	3,022	5,639	6,107	6,836	7,089	7,215	7,391	8,076
Residential	754	1,088	880	957	932	1,000	991	1,028
Commerce & Public Services	123	160	227	326	464	654	499	460
Others	250	250	269	366	575	639	761	656
Natural Gas								
Primary Energy Supply	1,142	5,208	6,798	2,787	4,469	4,566	4,286	4,055
Indigenous Production	1,410	1,598	1,606	1,547	1,547	1,244	1,030	812
Import	-	3,672	5,275	1,225	3,007	3,327	3,293	3,262
Export	-	-	-	-	-	-	-	-
Transformation Sector	-13	-1,661	-2,724	-686	-1,751	-2,320	-2,384	-2,068
Power Generation	-63	-1,653	-2,709	-756	-1,753	-2,408	-2,409	-2,079
Final Energy Consumption	950	3,330	3,530	1,467	2,371	1,970	1,441	1,432
Industry	3	671	776	152	1,101	993	625	670
Transport	6	8	31	20	18	17	29	28
Residential	172	267	357	379	397	398	400	418
Commerce & Public Services	28	71	89	143	128	126	132	130
Others	742	2,314	2,277	773	726	437	255	187
Electricity								
Power Generation	1,580	3,447	4,514	5,222	5,197	5,651	5,999	6,284
Thermal	719	1,523	1,693	2,307	2,934	3,196	529	306
Hydro	768	1,592	2,278	2,175	1,868	1,807	1,734	1,697
Nuclear	-	-	-	-	-	-	-	-
Others	93	331	543	739	396	649	3,736	4,280
Final Energy Consumption	1,332	3,161	4,155	4,647	4,707	4,982	5,351	5,605
Industry	873	2,209	2,801	3,147	3,083	3,305	3,625	3,667
Transport	18	19	22	36	37	41	41	44
Residential	372	532	712	765	805	821	873	935
Commerce & Public Services	60	388	609	684	775	804	800	938
Others	8	14	11	14	7	10	11	22

Major Economic Indicators of Chile

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	13.14	15.17	16.10	16.83	17.02	17.20	17.39	17.58
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	80.23	149.17	183.28	205.70	217.54	230.24	242.81	253.07
Real Term (Billions of 2010 Price and 2010 PPP)	114.57	213.01	261.72	293.73	310.63	328.77	346.71	361.36
Nominal (Billions of Current USD)	31.56	79.31	124.40	171.96	217.54	250.83	265.23	276.67
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	6,106	9,833	11,386	12,222	12,785	13,385	13,964	14,399
Real Term (2010 Price and 2010 PPP)	8,718	14,041	16,259	17,453	18,256	19,113	19,939	20,560
Nominal (Current USD)	2,401	5,228	7,729	10,217	12,785	14,582	15,253	15,742
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	9,622.3	42,797.0	69,637.4	96,443.8	110,998.7	121,319.5	129,027.6	137,029.0
Household Final Consumption Expenditure	5,886.6	27,808.4	41,396.9	57,357.8	65,522.8	74,017.8	80,664.7	87,567.1
General Government Final Consumption Expenditure	961.7	4,953.4	7,283.0	12,219.9	13,645.2	14,690.6	15,674.3	17,071.7
Gross Fixed Capital Formation	2,278.7	8,663.4	14,794.3	21,026.6	23,296.1	27,132.0	31,044.5	32,647.5
Stock Change	144.4	1,068.4	1,429.6	-1,464.6	1,441.3	1,652.6	1,900.1	642.0
Exports of Goods and Services	3,270.2	12,534.0	26,728.5	35,849.0	42,246.0	46,162.8	44,265.7	44,407.0
Imports of Goods and Services	2,939.6	12,230.5	21,995.0	28,545.0	35,152.7	42,336.3	44,521.7	45,306.2
Real GDP & its Components (Billions of 2008 CLP) *1								
Gross Domestic Product	36,225.7	67,351.0	82,752.5	92,875.3	98,219.0	103,954.7	109,627.6	114,260.7
Household Final Consumption Expenditure	19,139.6	39,461.6	48,626.1	56,633.3	62,763.5	68,319.4	72,465.6	76,713.6
General Government Final Consumption Expenditure	5,286.4	7,547.5	9,214.0	11,522.5	12,049.3	12,346.2	12,784.2	13,215.8
Gross Fixed Capital Formation	5,382.8	11,254.3	17,170.3	20,375.3	22,748.0	26,157.3	29,196.1	29,818.1
Stock Change	223.2	823.8	433.3	-1,733.0	1,262.1	1,399.4	1,780.5	602.9
Exports of Goods and Services	10,057.8	24,375.8	33,417.6	37,180.9	38,045.1	40,143.8	40,189.4	41,544.3
Imports of Goods and Services	5,851.6	16,112.1	26,108.8	31,103.7	39,031.1	45,267.2	47,429.7	48,247.9
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.4	3.3	3.3	3.2	3.0	3.2	2.9	2.8
Industry	43.1	31.1	38.9	34.9	33.9	32.9	32.7	32.7
Services, etc.	50.5	42.1	50.4	53.6	54.3	54.9	55.2	55.2
Industrial Production Index (2010=100) *2	N.A.	79.2	99.0	99.5	100.0	107.1	114.4	112.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b	8.372	19.210	41.267	55.463	71.109	81.438	77.965	76.684
Imports, c.i.f.	7.742	18.507	32.735	42.806	59.207	74.695	80.073	79.178
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.284	2.181	10.837	15.360	15.737	11.040	2.333	1.820
Current Account	-0.485	-0.898	1.449	3.518	3.581	-3.070	-9.624	-10.125
Overall Balance	2.372	-0.110	3.040	1.004	3.879	14.770	-0.658	1.449
Foreign Exchange Rate (CLP/USD) *1	304.903	539.588	559.768	560.860	510.249	483.668	486.471	495.273
PPP conversion factor, GDP (CLP/International Dollar) *1	166.143	286.437	333.690	353.070	357.334	348.017	350.295	354.907
Price Indices								
GDP Deflator (2008=100) *3	26.6	63.5	84.2	103.8	113.0	116.7	117.7	119.9
Wholesale Prices (2010=100) *2	26.2	57.7	76.5	102.1	100.0	105.9	N.A.	N.A.
Consumer Price Index (2010=100) *2	N.A.	N.A.	N.A.	98.6	100.0	103.3	106.4	108.4
Growth Rate (%) *3								
Real GDP	3.70	4.50	5.56	-1.04	5.75	5.84	5.46	4.23
Population	1.65	1.27	1.15	1.11	1.10	1.09	1.09	1.08
Price								
Wholesale Prices	21.77	11.41	5.39	0.28	-2.04	5.86	N.A.	N.A.
Consumer Price Index	N.A.	N.A.	N.A.	N.A.	1.41	3.34	3.01	1.79

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

3.5 People's Republic of China

Energy Balance Table of People's Republic of China

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	1,938,443	-	212,754	-	-	-	-	-	-
Import	123,839	24	281,742	52,039	0	3,250	5,489	1,401	274
Export	-4,256	-3,177	-1,617	-32,780	-4,707	-325	-9,571	-0	-2,837
International Marine Bunkers	-	-	-	-7,713	-	-	-	-	-252
International Aviation Bunkers	-	-	-	-6,585	-	-	-6,585	-	-
Stock Changes	-22,779	-13,822	-3,334	-6,942	42	-1,200	6	1	912
Total Primary Energy Supply	2,035,246	-16,976	489,544	-1,981	-4,665	1,725	-10,660	1,402	-1,903
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-1,369,532	160,178	-480,940	456,769	100,473	32,644	26,407	405	175,765
Main Activity Producer	-827,279	-1,524	-104	-3,271	-	-	-	-	-363
Autoproducers	-136,260	-27,923	-34	-3,299	-1	-	-	-0	-27
Gas Processing	-4,421	-234	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-490,458	525,136	100,474	37,156	26,407	405	176,212
Coal Transformation	-401,572	189,859	-	-	-	-	-	-	-
Other Transformation	-	-	9,656	-61,797	-0	-4,511	-	-	-58
Loss & Own Use	-58,490	-7,037	-6,312	-4,784	-602	-	-	-25	-3,191
Discrepancy	9,619	18	-822	-30	-32	28	-161	-98	456
Total Final Energy Consumption	616,844	136,182	1,469	449,975	95,174	34,398	15,586	1,684	171,127
Industry Sector	472,591	109,775	590	96,128	8,036	2,950	-	348	18,892
Iron and Steel	76,060	79,579	0	1,656	144	-	-	2	821
Chemical & Petrochemical	36,252	5,015	557	29,801	354.18	2,921	-	27	814
Non-metallic Minerals	154,548	9,598	11	18,403	341	-	-	13	2,879
Other Industries	205,731	15,583	22	46,267	7,197.00	29	-	305.80	14,377
Transport Sector	2,926	15	-	200,620	66,245	-	15,586	1	111,218
Domestic Air Transport	-	-	-	16,611	-	-	15,586	-	354
Road	-	-	-	143,888	60,239	-	-	-	82,614
Rail	2,836	15	-	4,450	86	-	-	1	4,332
Inland Waterways	90	-	-	23,207	1,353	-	-	-	16,117
Pipeline Transport	-	-	-	85	1	-	-	-	1
Non-specified Transport	-	-	-	12,379	4,566	-	-	-	7,800
Other Sector	98,427	4,853	-	87,476	20,779	-	-	1,309	40,772
Residential	45,388	3,765	-	32,456	-	-	-	288	10,021
Commerce and Public Services	19,954	418	-	3,653	-	-	-	138	2,382
Agriculture	12,505	470	-	16,865	2,047	-	-	12	14,704
Non-specified Others	20,580	200	-	34,503	18,732	-	-	871	13,666
Non-energy	42,901	21,539	879	65,751	114	31,448	-	26	244
2012									
Indigenous Production	1,916,113	-	209,566	-	-	-	-	-	-
Import	111,623	52	271,027	51,407	5	2,835	5,423	972	927
Export	-5,447	-694	-2,432	-28,319	-2,929	-198	-7,749	-0	-1,891
International Marine Bunkers	-	-	-	-8,888	-	-	-	-	-298
International Aviation Bunkers	-	-	-	-6,152	-	-	-6,152	-	-
Stock Changes	-19,060	7,309	-9,226	-11,335	-5,225	-552	-102	5	91
Total Primary Energy Supply	2,003,229	6,667	468,935	-3,287	-8,150	2,085	-8,580	977	-1,171
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-1,266,825	131,346	-461,545	434,962	91,733	30,702	22,235	773	173,384
Main Activity Producer	-766,111	-1,387	-109	-3,573	-	-	-	-	-363
Autoproducers	-131,239	-23,464	-14	-3,636	-1	-	-	-	-24
Gas Processing	-4,516	-454	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-469,963	494,867	91,734	32,722	22,235	773	174,051
Coal Transformation	-364,959	156,651	-	-	-	-	-	-	-
Other Transformation	-	-	8,541	-52,696	-0	-2,021	-	-	-279
Loss & Own Use	-56,563	-6,537	-5,826	-4,836	-627	-	-	-23	-3,270
Discrepancy	-3,821	-256	-641	-628	-120	-38	112	-3	-9
Total Final Energy Consumption	676,020	131,219	923	426,210	82,836	32,748	13,767	1,724	168,934
Industry Sector	538,326	107,601	563	93,938	8,236	2,602	-	361	18,955
Iron and Steel	77,415	69,505	0	1,615	143	-	-	2	912
Chemical & Petrochemical	42,336	13,261	465	31,406	796	2,575	-	31	852
Non-metallic Minerals	170,750	8,758	78	16,779	342	0	-	48	2,659
Other Industries	247,825	16,077	20	44,137	6,955	26	-	280.17	14,531.70
Transport Sector	2,931	1	-	186,718	57,495	-	13,767	1	109,233
Domestic Air Transport	-	-	-	14,741	-	-	13,767	-	329
Road	-	-	-	134,582	51,968	-	-	-	82,030
Rail	2,864	0	-	4,821	82	-	-	1	4,706
Inland Waterways	67	0	-	21,020	1,247	-	-	-	14,899
Pipeline Transport	-	-	-	81	1	-	-	-	1
Non-specified Transport	-	-	-	11,472	4,197	-	-	-	7,268
Other Sector	96,330	5,061	-	80,633	17,030	-	-	1,335	40,528
Residential	45,698	4,290	-	29,722	-	-	-	263	9,834
Commerce and Public Services	19,087	206	-	3,630	-	-	-	295	2,336
Agriculture	11,706	391	-	15,717	1,986	-	-	12	13,622
Non-specified Others	19,839	173	-	31,564	15,043	-	-	764	14,736
Non-energy	38,434	18,566	360	64,922	76	30,146	-	27	219

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	112,521	79,145	29,086	12,621	71,481	-	-	2,456,051
23,470	5,421	-	-	12,734	49,253	-	-	-	-	640	-	507,538
-11,348	-1,523	-	-	-2,469	-2,556	-	-	-	-	-1,606	-	-45,992
-7,462	-	-	-	-	-	-	-	-	-	-	-	-7,713
-	-	-	-	-	-	-	-	-	-	-	-	-6,585
-904	-24	-	-	-5,775	-	-	-	-	-	-	-	-46,878
3,757	3,874	-	-	4,490	159,218	79,145	29,086	12,621	71,481	-966	-	2,856,420
-	-	-	-	-	-	-	-	-	-	-	-	-
9,238	27,886	14,971	-	68,981	-26,731	-79,145	-29,086	-12,621	-42,449	467,121	87,143	-869,295
-1,141	-	-658	-	-1,109	-21,243	-79,145	-29,086	-12,621	-32,793	422,205	47,600	-537,263
-1,003	-6	-1,410	-	-852	-5,283	-	-	-	-	44,916	39,543	-88,340
-	-	-	-	-	-205	-	-	-	-	-	-	-4,859
27,759	30,159	17,878	-	108,686	-	-	-	-	-	-	-	34,678
-	-	-	-	-	-	-	-	-	-	-	-	-211,714
-16,377	-2,268	-839	-	-37,744	-	-	-	-	-9,656	-	-	-61,797
-143	-55	-309	-	-459	-24,758	-	-	-	-391	-80,516	-11,541	-193,830
278	-152	-6	-	-344	-114	-	-	-	1	-6	-4	8,662
13,130	31,553	14,656	-	72,667	107,615	-	-	-	28,642	385,633	75,597	1,801,957
5,651	3,742	14,508	-	42,001	48,898	-	-	-	11,471	262,726	52,170	1,054,350
78	310	3	-	298	3,534	-	-	-	1,133	49,056	7,086	218,105
1,578	1,453	14,499	-	8,154	22,626	-	-	-	1,940	37,336	20,129	153,657
2,139	989	5	-	12,036	7,575	-	-	-	747	27,077	247	218,205
1,855.85	989	1	-	21,512	15,163	-	-	-	7,651	149,257	24,709	464,383
6,544	1,026	-	-	-	15,331	-	-	-	-	8,608	-	227,499
670	0	-	-	-	-	-	-	-	-	-	-	16,611
38	997	-	-	-	13,985	-	-	-	-	1,701	-	159,574
20	11	-	-	-	-	-	-	-	-	4,896	-	12,196
5,733	5	-	-	-	-	-	-	-	-	-	-	23,297
83	0	-	-	-	242	-	-	-	-	322	-	648
0	12	-	-	-	1,103	-	-	-	-	1,690	-	15,172
445	24,171	-	-	-	38,095	-	-	-	17,171	114,299	23,427	383,748
-	22,147	-	-	-	30,962	-	-	-	12,063	60,107	19,472	204,213
191	943	-	-	-	3,753	-	-	-	623	16,141	1,211	45,753
20	81	-	-	-	65	-	-	-	3,283	8,831	28	42,047
234	1,000	-	-	-	3,316	-	-	-	1,201	29,220	2,716	91,736
490	2,614	148	-	30,667	5,290	-	-	-	-	-	-	136,360
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	102,976	75,001	25,381	8,254	64,640	-	-	2,401,931
26,832	4,302	-	-	10,111	39,430	-	-	-	-	591	-	474,129
-11,617	-1,539	-	-	-2,396	-2,691	-	-	-	-	-1,518	-	-41,100
-8,590	-	-	-	-	-	-	-	-	-	-	-	-8,888
-	-	-	-	-	-	-	-	-	-	-	-	-6,152
-631	-36	-	-	-4,885	-	-	-	-	-	-	-	-32,312
5,994	2,727	-	-	2,831	139,715	75,001	25,381	8,254	64,640	-927	-	2,787,607
-	-	-	-	-	-	-	-	-	-	-	-	-
6,428	25,331	14,246	-	70,130	-24,234	-	-25,381	-	-37,609	428,930	82,775	-737,580
-1,180	-	-742	-	-1,287	-19,942	-	-25,381	-	-29,068	390,698	44,652	-410,221
-1,124	-1	-1,533	-	-953	-4,583	-	-	-	-	38,231	38,123	-86,580
-	-	-	-	-	291	-	-	-	-	-	-	-4,678
22,532	27,224	17,241	-	106,354	-	-	-	-	-	-	-	24,904
-	-	-	-	-	-	-	-	-	-	-	-	-208,308
-13,800	-1,893	-721	-	-33,983	-	-	-	-	-8,541	-	-	-52,696
-163	-60	-367	-	-327	-20,732	-	-	-	-156	-73,499	-10,836	-178,985
-77	-165	-112	-	-215	-8	-75,001	-	-8,254	-62	-44	-2	-88,718
12,182	27,833	13,767	-	72,418	94,741	-	-	-	26,813	354,460	71,937	1,782,323
5,891	3,385	13,611	-	40,898	41,275	-	-	-	10,620	243,330	49,564	1,085,217
78	279	-	-	201	3,083	-	-	-	1,177	44,896	6,772	204,462
1,760	1,055	13,600	-	10,737	19,936	-	-	-	1,867	33,851	19,165	162,287
2,312	1,037	10	-	10,372	6,497	-	-	-	625	25,381	257	229,125
1,740.70	1,014	1	-	19,588	11,759	-	-	-	6,951	139,202	23,371	489,342
5,456	766	-	-	-	13,260	-	-	-	-	7,872	-	210,781
644	1	-	-	-	-	-	-	-	-	-	-	14,741
37	547	-	-	-	11,978	-	-	-	-	-	-	146,560
23	10	-	-	-	-	-	-	-	-	4,470	-	12,156
4,673	201	-	-	-	-	-	-	-	-	-	-	21,087
80	-	-	-	-	200	-	-	-	-	266	-	547
0	7	-	-	-	1,082	-	-	-	-	3,136	-	15,690
306	21,435	-	-	-	34,849	-	-	-	16,193	103,257	22,372	358,695
-	19,625	-	-	-	28,035	-	-	-	11,370	53,483	18,548	191,146
87	912	-	-	-	3,694	-	-	-	574	14,547	1,137	42,874
20	77	-	-	-	60	-	-	-	3,157	8,708	27	39,766
199	821	-	-	-	3,061	-	-	-	1,092	26,519	2,660	84,908
530	2,248	156	-	31,520	5,357	-	-	-	-	-	-	127,630

Major Energy Indicators of People's Republic of China

ktoe

	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	654,004	905,175	1,539,359	2,117,844	2,299,404	2,688,780	2,787,607	2,856,420
Indigenous Production	705,811	865,531	1,426,025	1,897,388	2,087,116	2,348,832	2,401,931	2,456,051
Import	8,436	96,856	184,280	331,685	385,173	450,756	474,129	507,538
Export	-38,922	-64,437	-46,884	-49,650	-51,515	-48,285	-41,100	-45,992
Final Energy Consumption	489,928	634,676	903,638	1,279,634	1,355,881	1,663,296	1,782,323	1,801,957
Industry	329,825	379,343	497,451	751,461	809,783	1,010,751	1,085,217	1,054,350
Transport	28,776	60,078	104,959	149,602	166,547	190,197	210,781	227,499
Residential	-	81,851	125,945	171,750	174,005	182,587	191,146	204,213
Commerce & Public Services	-	14,140	27,440	29,655	30,426	40,035	42,874	45,753
Others	131,327	99,264	147,843	177,166	175,120	239,725	252,305	270,142
Coal, Coal Products								
Primary Energy Supply	512,155	631,243	1,122,099	1,568,767	1,658,339	1,973,503	2,009,895	2,018,271
Indigenous Production	539,952	649,618	1,143,269	1,557,291	1,691,720	1,897,524	1,916,113	1,938,443
Import	877	1,496	15,686	72,637	83,241	113,713	111,674	123,863
Export	-7,785	-40,130	-18,528	-11,866	-12,634	-10,798	-6,141	-7,434
Transformation Sector	-	-	-676,278	-959,259	-1,028,120	-1,114,673	-1,135,479	-1,209,355
Power Generation	-119,784	-327,372	-583,983	-786,944	-869,064	-915,698	-922,201	-992,986
Final Energy Consumption	338,239	296,805	367,076	476,501	541,999	748,660	807,239	753,027
Industry	224,832	216,937	248,261	341,294	415,060	587,785	645,927	582,366
Transport	11,089	5,540	5,470	4,208	3,292	3,235	2,931	2,941
Residential	-	42,496	57,455	57,509	53,310	52,080	49,988	49,153
Commerce & Public Services	-	4,275	9,674	11,829	10,790	18,909	19,293	20,372
Others	102,319	27,556	46,216	61,660	59,546	86,651	89,100	98,195
Crude Oil								
Primary Energy Supply	117,828	213,834	299,315	381,305	428,766	441,339	468,935	489,544
Indigenous Production	138,448	163,003	181,353	189,490	203,014	204,604	209,566	212,754
Import	2,926	70,267	126,817	203,653	237,682	253,779	271,027	281,742
Export	-24,014	-10,306	-8,067	-5,073	-3,030	-2,514	-2,432	-1,617
Transformation Sector	-	-	-290,621	-371,158	-418,764	-434,390	-461,545	-480,940
Petroleum Refineries	-109,722	-203,057	-290,405	-371,094	-418,694	-441,728	-469,963	-490,458
Petroleum Products								
Primary Energy Supply	-3,389	10,828	19,828	14,023	9,319	2,069	-3,287	-1,981
Import	4,634	24,960	41,484	47,771	48,262	53,470	51,407	52,039
Export	-7,123	-10,229	-16,710	-28,229	-30,460	-30,343	-28,319	-32,780
Transformation Sector	-	-	264,109	349,738	392,389	409,849	434,962	456,769
Power Generation	-11,140	-15,203	-19,899	-8,902	-10,044	-7,784	-7,209	-6,570
Petroleum Refineries	107,409	198,116	284,152	358,643	439,463	466,089	494,867	525,136
Final Energy Consumption	80,728	187,223	277,903	347,032	386,742	404,841	426,210	449,975
Industry	47,912	62,920	77,324	91,860	119,803	98,484	93,938	96,128
Transport	16,676	51,830	94,924	132,489	147,899	167,758	186,718	200,620
Residential	-	14,615	20,728	35,095	38,046	28,654	29,722	32,456
Commerce & Public Services	-	5,677	9,543	4,512	5,056	3,419	3,630	3,653
Others	16,140	52,181	75,385	83,075	75,938	106,527	112,203	117,119
Natural Gas								
Primary Energy Supply	14,242	22,401	44,665	83,505	100,062	124,331	139,715	159,218
Indigenous Production	14,242	25,323	47,429	79,385	88,303	98,069	102,976	112,521
Import	-	-	-	7,107	15,511	29,230	39,430	49,253
Export	-	-2,922	-2,764	-2,988	-3,752	-2,968	-2,691	-2,556
Transformation Sector	-	-	2,492	67,969	-18,783	-22,665	-24,234	-26,731
Power Generation	-680	-4,855	-5,092	-20,621	-19,932	-23,671	-24,525	-26,527
Final Energy Consumption	13,205	24,087	38,454	136,593	66,293	84,847	94,741	107,615
Industry	11,084	14,147	20,241	102,837	25,373	36,953	41,275	48,898
Transport	47	93	863	7,598	9,040	11,908	13,260	15,331
Residential	-	4,810	11,103	21,231	22,466	25,888	28,035	30,962
Commerce & Public Services	-	378	1,226	2,725	2,536	3,228	3,694	3,753
Others	2,074	4,659	5,021	2,201	6,879	6,870	8,478	8,671
Electricity								
Power Generation	53,440	116,428	214,823	319,460	361,816	405,320	428,930	467,121
Thermal	42,540	94,348	173,981	260,423	270,571	370,999	391,401	332,866
Hydro	10,900	19,134	34,143	52,945	62,107	-	-	79,145
Nuclear	-	1,454	4,612	6,092	6,418	7,501	8,460	9,695
Others	-	1,491	2,087	-	22,720	26,820	29,068	45,414
Final Energy Consumption	52,150	90,621	169,807	261,801	296,693	331,944	354,460	385,633
Industry	40,392	59,109	116,274	177,389	205,710	231,001	243,330	262,726
Transport	964	2,419	3,701	5,306	6,317	7,296	7,872	8,608
Residential	-	14,384	24,293	41,901	44,072	48,333	53,483	60,107
Commerce & Public Services	-	3,387	6,470	9,776	11,111	12,926	14,547	16,141
Others	10,794	11,323	19,068	27,429	29,484	32,387	35,227	38,051

Major Economic Indicators of People's Republic of China

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	1,135.19	1,262.65	1,303.72	1,331.26	1,337.71	1,344.13	1,350.70	1,357.38
Gross Domestic Product *4								
Real Term (Billions of 2010 Price and 2010 USD)	824.12	2,223.71	3,542.83	5,459.27	6,039.69	6,612.52	7,125.01	7,672.48
Real Term (Billions of 2010 Price and 2010 PPP)	1,686.37	4,550.26	7,249.52	11,171.06	12,358.73	13,530.89	14,579.58	15,699.85
Nominal (Billions of Current USD)	392.50	1,205.25	2,268.59	5,059.41	6,039.69	7,492.48	8,461.58	9,490.67
GDP per Capita *4								
Real Term (2010 Price and 2010 USD)	726	1,761	2,717	4,101	4,515	4,920	5,275	5,652
Real Term (2010 Price and 2010 PPP)	1,486	3,604	5,561	8,391	9,239	10,067	10,794	11,566
Nominal (Current USD)	346	955	1,740	3,800	4,515	5,574	6,265	6,992
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	1,877.43	9,977.63	18,589.58	34,562.92	40,890.30	48,412.35	53,412.30	58,801.88
Household Final Consumption Expenditure	945.09	4,585.46	7,295.87	12,358.46	14,075.86	16,895.66	19,058.46	21,218.75
General Government Final Consumption Expenditure	263.96	1,566.14	2,639.88	4,569.02	5,335.63	6,315.49	7,140.90	7,997.81
Gross Fixed Capital Formation	482.78	3,384.44	7,423.29	15,667.98	18,361.52	21,568.20	24,175.68	26,907.54
Stock Change	191.92	99.84	362.40	778.34	998.87	1,266.23	1,101.64	1,128.07
Exports of Goods and Services	298.58	2,063.44	6,264.81	8,202.97	10,702.28	12,324.06	12,935.93	13,713.14
Imports of Goods and Services	257.43	1,863.88	5,427.37	6,861.84	9,469.93	11,316.14	11,480.10	12,103.75
Real GDP & its Components (Billions of 2000 CNY) *1								
Gross Domestic Product	3,697.79	9,977.63	15,896.45	24,495.42	27,099.70	29,669.98	31,969.49	34,425.96
Household Final Consumption Expenditure	2,082.63	4,585.46	6,277.61	8,940.09	9,671.26	10,736.79	11,636.24	12,513.21
General Government Final Consumption Expenditure	581.67	1,566.14	2,271.44	3,305.22	3,666.01	4,013.34	4,359.92	4,716.50
Gross Fixed Capital Formation	866.72	3,384.44	6,136.77	10,575.30	11,798.18	12,876.64	14,056.24	15,376.47
Stock Change	344.55	99.84	299.59	525.35	641.83	755.96	640.52	644.64
Exports of Goods and Services	453.54	2,063.44	4,932.74	8,004.10	10,224.04	11,280.59	12,072.37	13,119.53
Imports of Goods and Services	437.51	1,863.88	4,427.10	7,007.45	8,438.09	9,449.06	10,219.45	11,320.28
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	27.6	14.7	11.1	8.6	8.1	7.7	7.5	7.2
Industry	34.5	45.4	47.6	48.7	49.6	50.1	50.3	50.4
Services, etc.	40.5	39.8	41.2	42.8	42.5	42.5	42.6	42.8
Industrial Production Index (2010=100) *4	9.4	34.3	57.6	89.2	100.0	110.4	118.9	127.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	62.091	249.203	761.953	1,201.612	1,577.754	1,898.381	2,048.714	2,209.004
Imports, c.i.f.	53.345	225.094	659.953	1,005.923	1,396.247	1,743.484	1,818.405	1,949.989
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	119.660	235.179	245.539	236.050	297.746	351.766
Current Account	N.A.	N.A.	132.378	243.257	237.810	136.097	215.392	182.807
Overall Balance	N.A.	N.A.	227.728	441.690	524.675	401.567	183.626	509.010
Foreign Exchange Rate (CNY/USD) *1	4.783	8.279	8.194	6.831	6.770	6.461	6.312	6.196
PPP conversion factor, GDP CNY/International Dollar) *1	1.688	2.710	2.822	3.132	3.309	3.506	3.526	3.552
Price Indices								
GDP Deflator (2000=100) *4	50.8	100.0	116.9	141.1	150.9	163.2	167.1	170.8
Wholesale Price Index (1995=100) *4	51.8	98.7	108.5	116.5	122.9	130.3	128.1	125.7
Consumer Price Index (1995=100) *4	58.3	99.5	100.9	110.7	114.1	119.7	122.1	123.8
Growth Rate (%)								
Real GDP *4	3.93	8.43	11.35	9.23	10.63	9.48	7.75	7.68
Population *4	1.48	0.79	0.59	0.50	0.48	0.48	0.49	0.49
Price *4								
Wholesale Price Index	4.10	2.82	4.91	-5.39	5.51	6.01	-1.70	-1.91
Consumer Price Index	2.11	-1.50	0.81	-1.20	3.10	4.90	1.99	1.40

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

3.6 Hong Kong, China

Energy Balance Table of Hong Kong, China

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	8,171	-	-	17,995	435	346	5,741	8	3,492
Export	-1	-	-	-621	-11	-	-1	-	-214
International Marine Bunkers	-	-	-	-8,801	-	-	-	-	-1,329
International Aviation Bunkers	-	-	-	-5,656	-	-	-5,656	-	-
Stock Changes	-401	-	-	272	15	5	-78	-	-23
Total Primary Energy Supply	7,769	-	-	3,189	439	351	6	8	1,927
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,769	-	-	-389	-	-351	-	-	-8
Main Activity Producer	-7,769	-	-	-44	-	-	-	-	-14
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-351	-	-351	-	-	-
Petroleum Refineries	-	-	-5	6	-	-	-	-	6
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	5	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-	-433	102	-	0	-0	-535
Total Final Energy Consumption	0	-	-	2,366	541	-	6	7	1,384
Industry Sector	0	-	-	101	-	-	-	1	100
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	0	-	-	101	-	-	-	1	100
Transport Sector	-	-	-	2,055	541	-	2	-	1,180
Domestic Air Transport	-	-	-	2	-	-	2	-	-
Road	-	-	-	1,867	505	-	-	-	1,031
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	185	36	-	-	-	149
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	210	0	-	3	6	105
Residential	-	-	-	92	-	-	-	0	-
Commerce and Public Services	-	-	-	118	0	-	3	6	105
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	-	-	-	-	-	-
2012									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	7,779	-	-	17,851	433	305	5,638	8	3,610
Export	-0	-	-	-810	-8	-	-206	-	-114
International Marine Bunkers	-	-	-	-8,448	-	-	-	-	-1,384
International Aviation Bunkers	-	-	-	-5,589	-	-	-5,589	-	-
Stock Changes	-491	-	-	230	-1	28	163	-	-175
Total Primary Energy Supply	7,288	-	-	3,234	424	333	5	8	1,938
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,288	-	-	-518	-	-333	-	-	-92
Main Activity Producer	-7,288	-	-	-190	-	-	-	-	-97
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-333	-	-333	-	-	-
Petroleum Refineries	-	-	-5	5	-	-	-	-	5
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	5	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	0	-	-	-298	57	0	0	-0	-355
Total Final Energy Consumption	0	-	-	2,418	481	-	5	8	1,491
Industry Sector	0	-	-	102	-	-	-	1	100
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	0	-	-	102	-	-	-	1	100
Transport Sector	-	-	-	2,110	481	-	2	-	1,294
Domestic Air Transport	-	-	-	2	-	-	2	-	-
Road	-	-	-	1,914	475	-	-	-	1,106
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	193	6	-	-	-	187
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	206	0	-	3	7	97
Residential	-	-	-	91	-	-	-	0	-
Commerce and Public Services	-	-	-	114	0	-	3	7	97
Agriculture	-	-	-	-	-	-	-	-	-
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
-	-	-	-	-	-	0	-	1	63	-	-	64
7,558	415	-	-	-	2,307	-	-	-	16	921	-	29,410
-393	-2	-	-	-	-	-	-	-	-5	-142	-	-770
-7,473	-	-	-	-	-	-	-	-	-	-	-	-8,801
-	-	-	-	-	-	-	-	-	-	-	-	-5,656
338	15	-	-	-	-	-	-	-	-	-	-	-128
30	428	-	-	-	2,307	0	-	1	73	779	-	14,118
-	-	-	-	-	-	-	-	-	-	-	-	-
-30	-	-	-	-	-1,625	-0	-	-1	-39	3,363	0	-6,461
-30	-	-	-	-	-1,625	-	-	-0	-	3,359	-	-6,078
-	-	-	-	-	-	-0	-	-1	-13	3	0	-10
-	-	-	-	-	-	-	-	-	-	-	-	-351
-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-27	-	-	-22
-	-	-	-	-	-	-	-	-	-	-479	-	-479
0	-0	-	-	-	0	-	-	0	0	-0	-	-433
-	428	-	-	-	682	-	-	-	34	3,663	0	6,746
-	0	-	-	-	29	-	-	-	-	218	-	348
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	-	29	-	-	-	-	218	-	348
-	332	-	-	-	-	-	-	-	-	67	-	2,121
-	-	-	-	-	-	-	-	-	-	-	-	2
-	332	-	-	-	-	-	-	-	-	-	-	1,867
-	-	-	-	-	-	-	-	-	-	67	-	67
-	-	-	-	-	-	-	-	-	-	-	-	185
-	-	-	-	-	-	-	-	-	-	-	-	-
-	96	-	-	-	653	-	-	-	34	3,378	0	4,276
-	92	-	-	-	365	-	-	-	-	954	-	1,411
-	5	-	-	-	289	-	-	-	34	2,424	0	2,865
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	1	66	-	-	67
7,427	430	-	-	-	2,374	-	-	-	7	1,015	-	29,027
-481	-0	-	-	-	-	-	-	-	-3	-158	-	-971
-7,064	-	-	-	-	-	-	-	-	-	-	-	-8,448
-	-	-	-	-	-	-	-	-	-	-	-	-5,589
211	2	-	-	-	-	-	-	-	-	-	-	-261
93	432	-	-	-	2,374	-	-	1	69	857	-	13,823
-	-	-	-	-	-	-	-	-	-	-	-	-
-93	-	-	-	-	-1,364	-	-	-1	-36	3,336	4	-5,866
-93	-	-	-	-	-1,697	-	-	-0	-	3,333	-	-5,842
-	-	-	-	-	-	-	-	-1	-13	4	4	-5
-	-	-	-	-	333	-	-	-	-	-	-	-0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-23	-	-	-18
-	-	-	-	-	-333	-	-	-	-	-489	-	-823
0	-0	-	-	-	-0	-	-	-0	0	0	-	-298
-	432	-	-	-	677	-	-	-	34	3,704	4	6,837
-	0	-	-	-	26	-	-	-	-	224	-	352
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	-	26	-	-	-	-	224	-	352
-	333	-	-	-	-	-	-	-	-	65	-	2,175
-	-	-	-	-	-	-	-	-	-	-	-	2
-	333	-	-	-	-	-	-	-	-	-	-	1,914
-	-	-	-	-	-	-	-	-	-	65	-	65
-	-	-	-	-	-	-	-	-	-	-	-	193
-	-	-	-	-	-	-	-	-	-	-	-	-
-	99	-	-	-	651	-	-	-	34	3,416	4	4,311
-	91	-	-	-	370	-	-	-	-	984	-	1,445
-	8	-	-	-	282	-	-	-	34	2,432	4	2,866
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Hong Kong, China

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	10,643	15,094	14,094	13,337	13,359	13,889	13,823	14,118
Indigenous Production	-	-	81	55	56	53	67	64
Import	12,918	19,786	25,210	30,599	32,137	30,577	29,027	29,410
Export	-2,123	-1,557	-1,763	-1,101	-726	-904	-971	-770
Final Energy Consumption	6,689	11,204	6,696	6,624	6,693	6,732	6,837	6,746
Industry	1,516	1,714	574	424	383	352	352	348
Transport	3,136	6,088	2,334	2,104	2,147	2,159	2,175	2,121
Residential	-	-	1,220	1,370	1,385	1,412	1,445	1,411
Commerce & Public Services	-	-	2,440	2,726	2,777	2,809	2,866	2,865
Others	2,037	3,401	128	-	-	-	-	-
Coal, Coal Products								
Primary Energy Supply	6,008	4,125	6,870	7,154	6,225	7,403	7,288	7,769
Indigenous Production	-	-	-	-	-	-	-	-
Import	5,362	3,658	6,826	7,767	6,503	7,891	7,779	8,171
Export	-1	-24	-0	-0	-0	-0	-0	-1
Transformation Sector	-	-	-6,869	-7,154	-6,224	-7,403	-7,288	-7,769
Power Generation	-5,996	-4,121	-6,869	-7,154	-6,224	-7,403	-7,288	-7,769
Final Energy Consumption	12	4	1	0	0	0	0	0
Industry	-	-	1	0	0	0	0	0
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	12	4	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	-	-	-	-	-0	-	-	-
Indigenous Production	-	-	-	-	-0	-	-	-
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	0	-	-	-
Petroleum Refineries	-	-	-	-	-6	-26	-5	-5
Petroleum Products								
Primary Energy Supply	4,790	8,186	4,552	2,936	3,202	3,137	3,234	3,189
Import	7,556	13,245	15,405	19,317	21,530	19,113	17,851	17,995
Export	-1,967	-1,431	-1,377	-778	-498	-628	-810	-621
Transformation Sector	-	-	-756	-333	-348	-325	-518	-389
Power Generation	-126	-37	-38	-45	-37	-37	-190	-44
Petroleum Refineries	-	-	-	-	6	26	5	6
Final Energy Consumption	4,304	7,518	2,665	2,361	2,397	2,408	2,418	2,366
Industry	908	1,269	204	97	97	102	102	101
Transport	3,136	6,088	2,210	2,043	2,086	2,097	2,110	2,055
Residential	-	-	33	74	81	89	91	92
Commerce & Public Services	-	-	89	147	134	120	114	118
Others	260	161	128	-	-	-	-	-
Natural Gas								
Primary Energy Supply	-	2,007	2,033	2,511	3,145	2,547	2,374	2,307
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	2,007	2,033	2,511	3,145	2,547	2,374	2,307
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-1,447	-1,572	-2,169	-1,572	-1,364	-1,625
Power Generation	-	-2,007	-2,033	-1,860	-2,486	-1,886	-1,697	-1,625
Final Energy Consumption	324	560	586	651	659	672	677	682
Industry	13	21	19	22	22	22	26	29
Transport	-	-	-	-	-	-	-	-
Residential	-	-	332	366	365	370	370	365
Commerce & Public Services	-	-	235	264	272	280	282	289
Others	311	539	-	-	-	-	-	-
Electricity								
Power Generation	2,488	2,694	3,307	3,334	3,297	3,360	3,336	3,363
Thermal	2,488	2,694	3,266	3,330	3,293	3,356	3,323	3,349
Hydro	-	-	-	-	-	-	-	0
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	41	4	4	4	13	13
Final Energy Consumption	2,049	3,121	3,444	3,572	3,604	3,621	3,704	3,663
Industry	596	424	350	270	265	228	224	218
Transport	-	-	123	60	61	62	65	67
Residential	-	-	856	931	940	952	984	954
Commerce & Public Services	-	-	2,116	2,311	2,338	2,379	2,432	2,424
Others	1,454	2,697	-	-	-	-	-	-

Major Economic Indicators of Hong Kong, China

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	5.70	6.67	6.81	6.97	7.02	7.07	7.15	7.19
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	104.11	153.40	188.65	214.15	228.64	239.65	243.72	251.21
Real Term (Billions of 2010 Price and 2010 PPP)	150.76	222.14	273.18	310.10	331.08	347.02	352.92	363.77
Nominal (Billions of Current USD)	76.93	171.67	181.57	214.05	228.64	248.51	262.63	275.74
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	18,251	23,016	27,689	30,712	32,550	33,889	34,065	34,951
Real Term (2010 Price and 2010 PPP)	26,429	33,329	40,095	44,472	47,135	49,073	49,328	50,611
Nominal (Current USD)	13,486	25,757	26,650	30,698	32,550	35,142	36,708	38,364
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	599.26	1,337.50	1,412.13	1,659.25	1,776.33	1,934.43	2,037.06	2,138.66
Household Final Consumption Expenditure	344.30	784.32	811.65	1,013.62	1,090.23	1,224.40	1,314.97	1,413.52
General Government Final Consumption Expenditure	40.97	125.29	130.57	152.51	157.37	168.52	185.31	199.03
Gross Fixed Capital Formation	157.09	354.52	302.15	339.55	386.85	455.29	517.41	515.90
Stock Change	5.73	14.40	-4.76	22.94	37.52	11.74	-3.66	-2.33
Exports of Goods and Services	782.97	1,896.10	2,748.73	3,172.94	3,897.49	4,361.25	4,594.82	4,874.68
Imports of Goods and Services	731.80	1,837.13	2,576.22	3,042.31	3,793.14	4,286.78	4,571.79	4,862.14
Real GDP & its Components (Billions of 2013 HKD) *1								
Gross Domestic Product	886.37	1,305.99	1,606.07	1,823.13	1,946.51	2,040.23	2,074.92	2,138.66
Household Final Consumption Expenditure	578.49	875.22	958.95	1,128.41	1,197.40	1,297.90	1,351.15	1,413.52
General Government Final Consumption Expenditure	94.51	146.65	162.22	176.27	182.17	186.65	193.29	199.03
Gross Fixed Capital Formation	213.88	340.55	367.06	396.80	427.32	471.04	503.01	515.90
Stock Change	9.26	19.30	-6.29	28.92	45.79	12.97	-3.18	-2.33
Exports of Goods and Services	939.96	2,208.09	3,393.55	3,712.90	4,335.14	4,504.06	4,591.65	4,874.68
Imports of Goods and Services	918.22	2,257.80	3,258.01	3,610.03	4,237.27	4,432.59	4,561.09	4,862.14
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.	11.7	7.9	6.5	6.6	6.9	7.0	7.0
Services, etc.	N.A.	83.2	87.5	88.4	88.4	88.7	89.0	89.5
Manufacturing Production (2010=100) *2	126.1	105.3	112.0	96.5	100.0	100.7	99.9	100.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	82.390	202.683	292.119	329.422	400.692	455.573	492.907	535.187
Imports, c.i.f.	84.725	214.042	300.160	352.241	441.369	510.855	553.486	621.417
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	31.068	13.288	3.292	-7.482	-18.913	-27.921
Current Account	N.A.	N.A.	21.575	21.156	16.012	13.809	4.147	4.153
Overall Balance	N.A.	N.A.	0.358	81.529	12.191	10.418	19.779	0.486
Foreign Exchange Rate (HKD/USD) *1	7.790	7.791	7.777	7.752	7.769	7.784	7.756	7.756
PPP conversion factor, GDP (HKD/International Dollar) *1	6.025	7.443	5.688	5.416	5.365	5.462	5.555	5.576
Price Indices								
GDP Deflator (2013=100) *3	67.6	102.4	87.9	91.0	91.3	94.8	98.2	100.0
Producer Prices (2010=100) *2	89.5	96.0	86.3	94.3	100.0	108.3	108.4	105.1
Consumer Prices (2010=100) *2	56.9	95.8	89.5	97.7	100.0	105.3	109.5	114.3
Growth Rate (%) *3								
Real GDP	3.83	7.66	7.39	-2.46	6.77	4.81	1.70	3.07
Population	0.32	0.89	0.44	0.22	0.74	0.67	1.17	0.46
Price								
Producer Prices	N.A.	0.20	-7.89	-1.70	6.00	8.35	0.09	-3.10
Consumer Prices	10.19	-3.69	0.90	0.61	2.34	5.26	4.06	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"

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

: PPP means Purchasing Power Parity

Energy Price of Hong Kong, China in 2013

Currency Exchange Rate

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

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	HKD / t	22,179.5	Anthracite			Anthracite		
Other bituminous coal	HKD / t	571.52	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	7.58	LPG			LPG	HKD / kg	22.94
Naphtha			Naphtha			Naphtha		
Motor Gasoline	HKD / l	6.34	Motor Gasoline			Motor Gasoline	HKD / liter	15.69
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	HKD / l	6.04	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	4.78	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	4.09	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		
						*Average		
Other Energy Products			Other Energy Products			Other Energy Products		
Gas oil, diesel oil and naphtha	HKD / l	5.99				Environmental diesel oil (road)	HKD / l	12.46

3.7 Indonesia

Energy Balance Table of Indonesia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	264,059	-	47,752	-	-	-	-	-	-
Import	65	-	18,091	31,660	16,851	-	813	-	9,951
Export	-193,301	-	-17,945	-429	-2	-169	-1	-220	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-13,343	-	665	8,817	554	-	216	-5	5,723
Total Primary Energy Supply	57,479	-	48,564	40,048	17,403	-169	1,027	-225	15,674
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-32,433	8	-47,646	41,139	10,196	169	2,539	1,295	11,609
Main Activity Producer	-32,424	-	-	-6,427	-	-	-	-	-5,240
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-47,646	51,082	10,196	3,686	2,539	1,295	16,850
Coal Transformation	-9	8	-	-	-	-	-	-	-
Other Transformation	-	-	-	-3,516	-	-3,516	-	-	-
Loss & Own Use	0	-	-	-38	-55	0	0	-2	-54
Discrepancy	0	-	-918	-38	-55	0	0	-2	-54
Total Final Energy Consumption	25,047	8	-	81,149	27,544	-	3,566	1,068	27,229
Industry Sector	25,047	8	-	16,637	-	-	-	61	5,552
Iron and Steel	175	-	-	-	-	-	-	-	-
Chemical & Petrochemical	4,226	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	20,645	8	-	16,637	-	-	-	61	5,552
Transport Sector	-	-	-	48,446	26,750	-	3,566	0	18,089
Domestic Air Transport	-	-	-	42	2	-	-	-	-
Road	-	-	-	48,403	26,748	-	3,566	0	18,089
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	12,313	793	-	-	1,007	3,588
Residential	-	-	-	7,332	-	-	-	914	-
Commerce and Public Services	-	-	-	1,020	-	-	-	50	792
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	3,962	793	-	-	42	2,797
Non-energy	-	-	-	3,753	-	-	-	-	-
2012									
Indigenous Production	264,059	-	49,565	-	-	-	-	-	-
Import	65	-	14,672	31,182	16,131	-	607	-	10,369
Export	-193,301	-	-17,633	-319	-10	-	-2	-258	-12
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-13,343	-	1,833	3,025	289	-	141	-24	2,009
Total Primary Energy Supply	57,479	-	48,436	33,887	16,410	-	746	-282	12,366
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-32,433	8	-47,515	43,144	10,071	-	2,597	1,456	9,623
Main Activity Producer	-32,424	-	-	-7,113	-	-	-	-	-5,519
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-47,515	53,865	10,071	3,608	2,597	1,456	15,142
Coal Transformation	-9	8	-	-	-	-	-	-	-
Other Transformation	-	-	-	-3,608	-	-3,608	-	-	-
Loss & Own Use	-3,218	-	-	401	-53	-	-	-2	1,565
Discrepancy	-3,218	-	-921	401	-53	-	-	-2	1,565
Total Final Energy Consumption	21,828	8	-	77,432	26,429	-	3,343	1,171	23,554
Industry Sector	21,828	8	-	17,576	-	-	-	67	4,861
Iron and Steel	170	-	-	-	-	-	-	-	-
Chemical & Petrochemical	3,906	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	17,753	8	-	17,576	-	-	-	67	4,861
Transport Sector	-	-	-	44,597	25,663	-	3,343	0	15,559
Domestic Air Transport	-	-	-	33	2	-	-	-	-
Road	-	-	-	44,564	25,661	-	3,343	0	15,559
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	11,177	765	-	-	1,104	3,134
Residential	-	-	-	6,760	-	-	-	1,003	-
Commerce and Public Services	-	-	-	906	-	-	-	55	691
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	3,511	765	-	-	46	2,443
Non-energy	-	-	-	4,083	-	-	-	-	-

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
-	-	-	-	-	66,955	1,456	-	8,649	894	-	-	389,764
107	3,938	-	-	-	-	-	-	-	-	261	-	50,077
-	-	-	-	-37	-32,384	-	-	-	-	-	-	-244,060
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,976	354	-	-	-	-	-	-	-	-	-	-	-3,861
2,083	4,292	-	-	-37	34,571	1,456	-	8,649	894	261	-	191,920
-	-	-	-	-	-	-	-	-	-	-	-	-
1,033	1,631	-	-	12,667	-13,971	-1,456	-	-8,649	-894	18,589	-	-45,312
-1,186	-	-	-	-	-11,725	-1,456	-	-8,649	-	18,589	-	-42,091
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-2,246	-	-	-	-	-	-	-2,246
2,219	1,631	-	-	12,667	-	-	-	-	-	-	-	3,436
-	-	-	-	-	-	-	-	-	-	-	-	-2
-	-	-	-	-	-	-	-	-	-894	-	-	-4,410
-	-	-	-	-	-6,453	-	-	-	-	-3,561	-	-10,014
-696	769	-	-	0	3,550	-	-	-	-	840	-	3,434
2,421	6,692	-	-	12,630	17,697	-	-	-	-	16,129	-	140,029
2,051	97	-	-	8,876	13,477	-	-	-	-	5,537	-	60,705
-	-	-	-	-	677	-	-	-	-	-	-	853
-	-	-	-	-	3,499	-	-	-	-	-	-	7,726
-	-	-	-	-	1,230	-	-	-	-	-	-	1,230
2,051	97	-	-	8,876	8,070	-	-	-	-	5,537	-	50,896
40	-	-	-	-	26	-	-	-	-	11	-	48,483
40	-	-	-	-	-	-	-	-	-	-	-	42
-	-	-	-	-	26	-	-	-	-	-	-	48,429
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	11	-	11
330	6,595	-	-	-	216	-	-	-	-	10,581	-	23,111
-	6,417	-	-	-	17	-	-	-	-	6,640	-	13,989
-	178	-	-	-	199	-	-	-	-	3,941	-	5,160
-	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	3,962
-	-	-	-	3,753	3,977	-	-	-	-	-	-	7,730
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	69,434	905	-	3,473	570	-	-	388,007
1,004	3,072	-	-	-	-	-	-	-	-	257	-	46,175
-	-	-	-	-37	-31,676	-	-	-	-	-	-	-242,930
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
652	-43	-	-	-	-	-	-	-	-	-	-	-8,485
1,656	3,029	-	-	-37	37,759	905	-	3,473	570	257	-	182,767
-	-	-	-	-	-	-	-	-	-	-	-	-
1,335	2,975	-	-	15,086	-14,238	-905	-	-3,473	-570	16,861	-	-39,121
-1,594	-	-	-	-	-10,511	-905	-	-3,473	-	16,861	-	-37,565
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-3,727	-	-	-	-	-	-	-3,727
2,929	2,975	-	-	15,086	-	-	-	-	-	-	-	6,350
-	-	-	-	-	-	-	-	-	-	-	-	-2
-	-	-	-	-	-	-	-	-	-570	-	-	-4,179
-	-	-	-	-	-5,771	-	-	-	-	-2,132	-	-7,902
-1,109	-0	-	-	0	-218	-	-	-	-	-23	-	-3,980
1,882	6,004	-	-	15,049	17,532	-	-	-	-	14,963	-	131,763
1,595	87	-	-	10,967	13,288	-	-	-	-	5,175	-	57,874
-	-	-	-	-	630	-	-	-	-	-	-	800
-	-	-	-	-	3,669	-	-	-	-	-	-	7,574
-	-	-	-	-	1,270	-	-	-	-	-	-	1,270
1,595	87	-	-	10,967	7,719	-	-	-	-	5,175	-	48,230
31	-	-	-	-	19	-	-	-	-	9	-	44,625
31	-	-	-	-	-	-	-	-	-	-	-	33
-	-	-	-	-	19	-	-	-	-	-	-	44,583
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	9	-	9
256	5,917	-	-	-	247	-	-	-	-	9,779	-	21,202
-	5,757	-	-	-	19	-	-	-	-	6,203	-	12,982
-	159	-	-	-	228	-	-	-	-	3,575	-	4,709
-	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	3,511
-	-	-	-	4,083	3,979	-	-	-	-	-	-	8,062

Major Energy Indicators of Indonesia

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	53,252	101,236	130,970	158,016	166,980	174,724	182,767	191,920
Indigenous Production	119,434	183,995	206,158	290,486	306,007	341,034	388,007	389,764
Import	9,999	21,403	41,760	37,181	39,190	41,148	46,175	50,077
Export	-75,853	-103,804	-115,627	-168,980	-179,938	-217,441	-242,930	-244,060
Final Energy Consumption	33,956	63,569	74,750	92,182	111,705	115,504	131,763	140,029
Industry	11,767	22,658	29,104	37,124	47,262	51,691	57,874	60,705
Transport	11,205	21,452	25,858	30,729	36,805	40,167	44,625	48,483
Residential	-	-	13,227	11,409	12,326	12,001	12,982	13,989
Commerce & Public Services	-	-	1,679	3,960	7,178	4,526	4,709	5,160
Others	10,985	19,459	4,883	8,960	8,133	7,119	11,572	11,692
Coal, Coal Products								
Primary Energy Supply	4,056	10,956	23,742	32,805	39,525	46,780	57,479	57,479
Indigenous Production	5,785	44,007	82,754	150,835	161,797	207,723	264,059	264,059
Import	663	272	53	40	32	25	65	65
Export	-2,392	-33,323	-57,745	-116,424	-122,304	-160,331	-193,301	-193,301
Transformation Sector	-	-	-13,959	-21,510	-20,271	-26,530	-32,425	-32,425
Power Generation	-2,252	-10,048	-13,956	-21,503	-20,233	-26,530	-32,424	-32,424
Final Energy Consumption	1,149	2,053	8,499	11,294	19,116	20,239	21,836	25,054
Industry	1,110	1,821	8,486	11,294	19,116	20,239	21,836	25,054
Transport	0	-	-	-	-	-	-	-
Residential	-	-	13	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	39	233	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	38,632	49,852	49,041	53,316	52,904	51,040	48,436	48,564
Indigenous Production	70,733	68,981	48,137	54,431	58,008	51,322	49,565	47,752
Import	6,085	10,660	20,471	18,284	15,455	14,808	14,672	18,091
Export	-38,186	-29,789	-19,567	-20,376	-20,558	-20,726	-17,633	-17,945
Transformation Sector	-	-	-44,642	-50,975	-49,087	-50,058	-47,515	-47,646
Petroleum Refineries	-36,471	-49,298	-44,642	-50,975	-49,087	-50,058	-47,515	-47,646
Petroleum Products								
Primary Energy Supply	-8,202	1,171	13,873	18,856	19,923	30,693	33,887	40,048
Import	3,251	10,471	21,235	18,856	23,702	26,315	31,182	31,660
Export	-11,125	-8,942	-7,363	-	-5,500	-606	-319	-429
Transformation Sector	-	-	37,089	32,783	41,329	33,923	43,144	41,139
Power Generation	-3,764	-4,501	-9,259	-8,188	-8,428	-10,003	-7,113	-6,427
Petroleum Refineries	38,041	48,490	46,348	40,971	52,602	48,155	53,865	51,082
Final Energy Consumption	24,681	44,061	45,952	50,616	63,774	64,519	77,432	81,149
Industry	6,317	10,948	10,444	6,347	7,786	9,971	17,576	16,637
Transport	11,203	21,432	25,852	30,711	36,788	40,134	44,597	48,446
Residential	-	-	9,656	6,665	7,162	6,386	6,760	7,332
Commerce & Public Services	-	-	-	983	3,906	910	906	1,020
Others	7,161	11,681	0	5,910	8,133	7,119	7,593	7,715
Natural Gas								
Primary Energy Supply	16,889	34,048	37,710	44,842	45,062	37,018	37,759	34,571
Indigenous Production	41,040	65,798	68,663	77,022	76,638	72,796	69,434	66,955
Import	-	-	-	-	-	-	-	-
Export	-24,151	-31,750	-30,953	-32,180	-31,576	-35,778	-31,676	-32,384
Transformation Sector	-	-	-11,300	-15,079	-21,499	-14,416	-14,238	-13,971
Power Generation	-249	-10,468	-3,423	-8,674	-8,773	-8,414	-10,511	-11,725
Final Energy Consumption	5,504	8,089	11,093	18,688	16,139	16,996	17,532	17,697
Industry	2,862	4,407	6,523	15,509	15,976	16,774	13,288	13,477
Transport	1	20	5	8	10	25	19	26
Residential	-	-	16	18	19	16	19	17
Commerce & Public Services	-	-	24	102	135	181	228	199
Others	2,641	3,662	4,526	3,051	-	-	3,979	3,977
Electricity								
Power Generation	3,245	10,561	10,952	13,074	14,602	15,774	16,861	18,589
Thermal	1,369	5,351	9,459	11,395	12,279	13,894	15,236	15,770
Hydro	935	862	925	954	1,518	1,068	905	1,456
Nuclear	-	-	-	-	-	-	-	-
Others	941	4,348	568	724	805	812	719	1,362
Final Energy Consumption	2,624	9,365	9,205	11,584	12,675	13,749	14,963	16,129
Industry	1,478	5,482	3,651	3,974	4,385	4,706	5,175	5,537
Transport	1	-	-	10	8	8	9	11
Residential	-	-	3,542	4,725	5,145	5,600	6,203	6,640
Commerce & Public Services	-	-	1,655	2,875	3,138	3,435	3,575	3,941
Others	1,145	3,883	357	-	-	-	-	-

Major Economic Indicators of Indonesia

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	181.44	211.54	226.25	238.47	241.61	244.81	248.04	251.27
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	299.90	453.41	571.20	710.85	755.09	801.68	850.02	897.45
Real Term (Billions of 2010 Price and 2010 PPP)	795.92	1,203.32	1,515.93	1,886.54	2,003.95	2,127.59	2,255.89	2,381.75
Nominal (Billions of Current USD)	114.43	165.02	285.87	539.58	755.09	892.97	917.87	910.48
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	1,653	2,143	2,525	2,981	3,125	3,275	3,427	3,572
Real Term (2010 Price and 2010 PPP)	4,387	5,688	6,700	7,911	8,294	8,691	9,095	9,479
Nominal (Current USD)	631	780	1,263	2,263	3,125	3,648	3,701	3,624
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	210,866	1,389,770	2,774,281	5,606,203	6,864,133	7,831,726	8,615,704	9,524,737
Household Final Consumption Expenditure	119,802	856,798	1,785,596	3,290,996	3,858,822	4,340,605	4,858,331	5,456,626
General Government Final Consumption Expenditure	18,649	90,780	224,981	537,589	618,178	709,451	796,848	904,996
Gross Fixed Capital Formation	59,758	275,881	655,854	1,744,357	2,127,841	2,451,914	2,819,026	3,059,781
Stock Change	4,911	33,283	39,975	-7,264	129,095	131,329	202,638	183,329
Exports of Goods and Services	53,409	569,490	945,122	1,354,409	1,667,918	2,061,886	2,118,979	2,283,761
Imports of Goods and Services	50,046	423,318	830,083	1,197,093	1,537,720	1,868,075	2,152,937	2,359,212
Real GDP & its Components (Billions of 2010 IDR) *1								
Gross Domestic Product	2,726,250	4,121,726	5,192,501	6,461,951	6,864,133	7,287,635	7,727,083	8,158,194
Household Final Consumption Expenditure	1,418,168	2,527,173	3,078,760	3,684,200	3,858,822	4,054,079	4,277,706	4,510,339
General Government Final Consumption Expenditure	264,991	285,633	423,592	616,182	618,178	652,292	681,819	729,060
Gross Fixed Capital Formation	825,058	1,060,872	1,513,165	1,961,482	2,127,841	2,316,359	2,527,729	2,661,311
Stock Change	3,668,956	-7,109,153	-7,157,321	441,126	129,095	118,207	174,183	149,137
Exports of Goods and Services	468,359	883,948	1,231,826	1,447,012	1,667,918	1,914,268	1,945,064	2,026,120
Imports of Goods and Services	473,467	782,932	1,183,138	1,310,434	1,537,720	1,768,822	1,910,300	1,945,867
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	20.5	16.5	15.3	14.4	13.9	13.6	13.5	13.3
Industry	42.6	47.7	45.8	43.3	42.8	42.8	42.6	42.0
Services, etc.	34.8	34.2	36.9	39.8	40.7	41.5	41.8	42.2
Manufacturing Production Index (2010=100)	43.2	74.3	88.3	95.6	100.0	104.1	108.3	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	25.675	65.403	86.996	119.646	157.779	203.497	190.032	182.552
Imports, c.i.f.	21.837	43.595	75.725	93.786	135.663	177.436	191.691	186.629
Balance of Payments (Billions of Current USD) *2								
Trade Balance	5.352	25.042	17.611	32.287	31.003	33.825	8.680	5.833
Current Account	-2.988	7.992	0.278	10.629	5.144	1.685	-24.418	-29.110
Overall Balance	1.507	0.096	-1.975	15.481	31.670	15.321	0.491	-7.139
Foreign Exchange Rate (IDR/USD) *1	1,842.8	8,421.8	9,704.7	10,389.9	9,090.4	8,770.4	9,386.6	10,461.2
PPP conversion factor, GDP (IDR/International Dollar) *1	401.6	1,427.6	2,013.8	3,008.0	3,425.3	3,606.6	3,676.0	3,792.5
Price Indices								
GDP Deflator (2010=100) *3	7.7	33.7	53.4	86.8	100.0	107.5	111.5	116.8
Wholesale Prices (2010=100) *2	9.9	39.1	59.3	95.4	100.0	107.4	112.9	119.6
Consumer Price Index (2010=100) *2	12.7	44.0	68.7	95.1	100.0	105.4	109.9	116.9
Growth Rate (%) *3								
Real GDP	9.00	4.92	5.69	4.63	6.22	6.17	6.03	5.58
Population	1.80	1.39	1.34	1.32	1.32	1.32	1.32	1.30
Price								
Wholesale Prices	10.05	12.49	16.64	-1.82	4.87	7.43	5.11	5.92
Consumer Price Index	7.81	3.72	10.45	4.81	5.13	5.36	4.28	6.41

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

3.8 Japan

Energy Balance Table of Japan

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	676	-	598	-	-	-	-	-	-
Import	116,750	1,016	182,014	47,283	1,456	19,049	1,269	1,106	366
Export	-	-893	-	-26,942	-1,193	-32	-9,132	-458	-8,669
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	124	-	13,419	12,134	1,481	1,251	496	1,918	2,168
Total Primary Energy Supply	117,550	123	196,030	32,474	1,745	20,268	-7,366	2,566	-6,135
Transfers	-	-	-427	365	-	365	-	-	-
Total Transformation Sector	-101,465	25,968	-183,028	141,474	40,057	12,779	11,797	14,513	45,584
Main Activity Producer	-53,881	-4,109	-9,615	-16,222	-	-	-	-2	-404
Autoproducers	-11,470	-2,912	-	-11,044	-	-2,179	-	-27	-2,300
Gas Processing	-	-	-	-1,338	-	-	-	-	-
Petroleum Refineries	-	-	-173,412	171,012	40,057	14,958	11,797	14,542	48,288
Coal Transformation	-36,115	32,989	-	-934	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-513	-2,927	-	-10,649	-	-28	-	-50	-256
Discrepancy	-14	-3,868	-12,576	-8,263	320	-3,020	-411	-2,018	-705
Total Final Energy Consumption	15,558	19,296	-	155,400	42,122	30,363	4,020	15,011	38,488
Industry Sector	15,558	18,703	-	50,406	53	30,363	-	2,535	6,055
Iron and Steel	11,079	17,914	-	1,578	-	-	-	75	336
Chemical & Petrochemical	174	7	-	34,198	-	30,275	-	229	302
Non-metallic Minerals	3,825	274	-	1,377	-	-	-	22	310
Other Industries	479	508	-	13,253	53	88	-	2,210	5,106
Transport Sector	-	-	-	74,021	42,069	-	4,020	-	25,301
Domestic Air Transport	-	-	-	4,021	1	-	4,020	-	-
Road	-	-	-	66,911	42,068	-	-	-	23,880
Rail	-	-	-	211	-	-	-	-	211
Inland Waterways	-	-	-	2,878	-	-	-	-	1,210
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	593	-	27,441	-	-	-	12,476	7,131
Residential	-	13	-	15,481	-	-	-	9,979	-
Commerce and Public Services	-	580	-	7,699	-	-	-	1,533	3,848
Agriculture	-	-	-	2,795	-	-	-	959	1,831
Non-specified Others	-	-	-	1,466	-	-	-	6	1,453
Non-energy	-	-	-	3,532	-	-	-	-	-
2012									
Indigenous Production	675	-	689	-	-	-	-	-	-
Import	112,229	514	183,458	51,123	2,205	18,674	1,047	989	611
Export	-	-988	-	-12,822	-681	-53	-2,402	-122	-6,045
International Marine Bunkers	-	-	-	-4,278	-	-	-	-	-77
International Aviation Bunkers	-	-	-	-6,415	-	-	-6,415	-	-
Stock Changes	-562	-	128	154	-32	56	67	350	150
Total Primary Energy Supply	112,341	-474	184,275	27,762	1,492	18,678	-7,702	1,217	-5,361
Transfers	-	-	-369	303	-	303	-	-	-
Total Transformation Sector	-95,807	26,784	-183,884	137,024	40,891	11,971	10,685	15,139	43,064
Main Activity Producer	-48,982	-3,985	-12,879	-21,178	-	-	-	-6	-488
Autoproducers	-10,938	-2,610	-	-11,412	-	-2,063	-	-31	-1,955
Gas Processing	-	-	-	-1,325	-	-	-	-	-
Petroleum Refineries	-	-	-171,005	171,831	40,891	14,034	10,685	15,175	45,507
Coal Transformation	-35,887	33,378	-	-893	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-555	-2,991	-	-10,695	-1	-43	-	-64	-293
Discrepancy	-1,326	-4,663	-23	5,837	2,450	-1,630	321	279	1,740
Total Final Energy Consumption	14,654	18,656	-	160,230	44,832	29,277	3,304	16,571	39,150
Industry Sector	14,654	18,061	-	50,061	46	29,277	-	2,661	6,317
Iron and Steel	10,442	17,271	-	1,693	-	-	-	76	309
Chemical & Petrochemical	258	5	-	32,978	-	29,190	-	218	359
Non-metallic Minerals	3,490	278	-	1,378	-	-	-	21	341
Other Industries	463	506	-	14,011	46	87	-	2,346	5,309
Transport Sector	-	-	-	76,340	44,785	-	3,304	-	25,100
Domestic Air Transport	-	-	-	3,305	1	-	3,304	-	-
Road	-	-	-	69,401	44,784	-	-	-	23,612
Rail	-	-	-	208	-	-	-	-	208
Inland Waterways	-	-	-	3,426	-	-	-	-	1,279
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	595	-	29,982	-	-	-	13,910	7,733
Residential	-	14	-	16,864	-	-	-	11,009	-
Commerce and Public Services	-	581	-	8,271	-	-	-	1,489	4,324
Agriculture	-	-	-	3,328	-	-	-	1,406	1,913
Non-specified Others	-	-	-	1,517	-	-	-	6	1,495
Non-energy	-	-	-	3,849	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	2,651	6,960	3,806	3,147	5,697	-	-	23,534
6,805	13,504	-	-	3,727	103,270	-	-	-	-	-	-	450,333
-6,315	-263	-	-	-882	-	-	-	-	-	-	-	-27,835
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,759	2,701	-	-	360	-3	-	-	-	-	-	-	25,674
2,249	15,942	-	-	3,206	105,918	6,960	3,806	3,147	5,697	-	-	471,705
-	-	0	-	-	-	-	-	-	-	-	-	-63
2,095	2,677	6,784	-	5,188	-72,725	-6,960	-3,806	-2,823	-8,204	93,544	787	-117,238
-14,880	-936	-	-	-	-69,936	-6,271	-3,806	-2,221	-188	70,321	611	-95,317
-4,491	-195	-1,670	-	-181	-3,753	-688	-	-602	-8,016	23,223	176	-15,086
-	-1,213	-125	-	-	964	-	-	-	-	-	-	-375
21,466	5,021	8,579	-	6,303	-	-	-	-	-	-	-	-2,401
-	-	-	-	-934	-	-	-	-	-	-	-	-4,059
-	-	-	-	-	-	-	-	-	-	-	-	-
-726	-831	-7,171	-	-1,587	-4,748	-	-	-	-	-10,400	-	-29,238
-568	-2,018	387	-	-230	1,166	0	-	-0	3,973	1,018	-74	-18,638
3,051	15,770	-	-	6,576	29,611	-	-	324	1,466	84,162	713	306,530
1,369	6,987	-	-	3,044	14,938	-	-	-	1,447	33,786	-	134,837
216	269	-	-	682	1,847	-	-	-	-	6,707	-	39,125
42	2,789	-	-	561	3,021	-	-	-	-	5,077	-	42,477
373	42	-	-	631	836	-	-	-	-	1,631	-	7,943
739	3,888	-	-	1,170	9,234	-	-	-	1,447	20,371	-	45,292
1,668	963	-	-	-	89	-	-	-	-	1,835	-	75,945
-	-	-	-	-	-	-	-	-	-	-	-	4,021
-	963	-	-	-	-	-	-	-	-	-	-	66,911
-	-	-	-	-	-	-	-	-	-	1,835	-	2,046
1,668	-	-	-	-	-	-	-	-	-	-	-	2,878
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	89	-	-	-	-	-	-	89
13	7,820	-	-	-	14,584	-	-	324	19	48,541	713	92,214
-	5,502	-	-	-	8,309	-	-	304	19	24,516	28	48,670
-	2,319	-	-	-	6,275	-	-	20	-	23,719	609	38,901
6	-	-	-	-	-	-	-	-	-	307	76	3,178
8	-	-	-	-	-	-	-	-	-	-	-	1,466
-	-	-	-	3,532	-	-	-	-	-	-	-	3,532
-	-	-	-	-	3,045	6,865	4,689	3,931	5,527	-	-	25,420
8,499	15,613	-	-	3,486	102,497	-	-	-	-	-	-	449,822
-2,547	-225	-	-	-749	-	-	-	-	-	-	-	-13,810
-4,181	-	-	-	-20	-	-	-	-	-	-	-	-4,278
-	-	-	-	-	-	-	-	-	-	-	-	-6,415
-221	-223	-	-	7	-16	-	-	-	-	-	-	-296
1,549	15,166	-	-	2,724	105,526	6,865	4,689	3,931	5,527	-	-	450,442
-	-	0	-	-	-	-	-	-	-	-	-	-66
1,618	1,516	6,652	-	5,488	-72,885	-6,865	-4,689	-3,576	-8,501	95,641	783	-115,976
-18,889	-1,795	-	-	-	-70,182	-6,174	-4,689	-2,326	-708	71,819	606	-98,677
-5,477	-157	-1,562	-	-168	-3,950	-691	-	-1,251	-7,793	23,822	177	-14,646
-	-1,190	-135	-	-	1,247	-	-	-	-	-	-	-78
25,984	4,658	8,348	-	6,548	-	-	-	-	-	-	-	826
-	-	-	-	-893	-	-	-	-	-	-	-	-3,402
-	-	-	-	-	-	-	-	-	-	-	-	-
-771	-932	-6,866	-	-1,725	-4,967	-	-	-	-	-10,716	-	-29,924
1,689	688	214	-	87	3,249	0	-	0	4,408	-223	-73	7,186
4,085	16,438	-	-	6,574	30,922	-	-	355	1,434	84,702	710	311,663
1,913	7,120	-	-	2,725	16,147	-	-	-	1,412	34,246	-	134,580
304	335	-	-	669	1,911	-	-	-	-	6,747	-	38,064
48	2,627	-	-	536	3,320	-	-	-	-	5,040	-	41,602
409	46	-	-	562	857	-	-	-	-	1,684	-	7,688
1,153	4,111	-	-	959	10,058	-	-	-	1,412	20,775	-	47,227
2,146	1,004	-	-	-	93	-	-	-	-	1,737	-	78,169
-	-	-	-	-	-	-	-	-	-	-	-	3,305
-	1,004	-	-	-	-	-	-	-	-	-	-	69,401
-	-	-	-	-	-	-	-	-	-	1,737	-	1,945
2,146	-	-	-	-	-	-	-	-	-	-	-	3,426
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	93	-	-	-	-	-	-	93
26	8,314	-	-	-	14,682	-	-	355	22	48,719	710	95,065
-	5,856	-	-	-	8,652	-	-	336	22	25,025	28	50,942
-	2,458	-	-	-	6,030	-	-	19	-	23,385	606	38,892
10	-	-	-	-	-	-	-	-	-	309	76	3,713
16	-	-	-	-	-	-	-	-	-	-	-	1,517
-	-	-	-	3,849	-	-	-	-	-	-	-	3,849

Major Energy Indicators of Japan

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	434,637	513,619	521,229	463,658	493,206	463,514	450,442	471,705
Indigenous Production	74,691	104,956	97,411	92,214	97,960	63,725	25,420	23,534
Import	376,441	426,211	442,858	396,211	424,340	425,776	449,822	450,333
Export	-5,030	-5,850	-9,745	-19,052	-17,727	-16,228	-13,810	-27,835
Final Energy Consumption	305,801	362,063	352,252	305,706	323,657	312,882	311,663	306,530
Industry	141,281	161,458	152,747	128,419	141,238	136,754	134,580	134,837
Transport	70,004	87,407	86,869	78,767	80,303	77,599	78,169	75,945
Residential	40,788	51,092	53,007	49,348	51,495	50,482	50,942	48,670
Commerce & Public Services	34,199	45,456	45,760	39,870	41,083	38,870	38,892	38,901
Others	19,528	16,650	13,870	9,302	9,537	9,177	9,079	8,177
Coal, Coal Products								
Primary Energy Supply	75,664	91,804	112,853	98,924	112,507	107,191	111,867	117,673
Indigenous Production	5,893	1,710	567	654	467	650	675	676
Import	70,045	91,754	112,760	98,435	112,726	106,767	112,743	117,766
Export	-1,039	-1,489	-1,099	-580	-533	-483	-988	-893
Transformation Sector	-30,445	-50,261	-69,908	-64,751	-70,180	-65,311	-69,023	-75,497
Power Generation	-24,918	-46,595	-66,414	-61,293	-66,551	-62,604	-66,514	-72,372
Final Energy Consumption	39,591	39,747	35,015	28,576	33,620	33,142	33,310	34,854
Industry	38,825	38,843	34,084	28,030	33,013	32,578	32,715	34,260
Transport	-	-	-	-	-	-	-	-
Residential	83	27	19	14	12	11	14	13
Commerce & Public Services	683	877	911	531	595	552	581	580
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	200,318	218,989	214,674	185,809	185,437	179,766	184,275	196,030
Indigenous Production	555	644	794	798	757	722	689	598
Import	200,268	217,624	212,130	182,823	185,869	178,607	183,458	182,014
Export	-	-	-	-	-	-	-	-
Transformation Sector	-195,130	-217,474	-213,869	-185,184	-185,029	-178,574	-183,884	-183,028
Petroleum Refineries	-176,529	-209,924	-207,953	-181,832	-181,505	-171,020	-171,005	-173,412
Petroleum Products								
Primary Energy Supply	48,733	37,465	29,594	12,369	16,359	22,003	27,762	32,474
Import	64,443	54,074	49,898	39,175	43,562	48,215	51,123	47,283
Export	-3,990	-4,361	-8,646	-18,473	-17,194	-15,745	-12,822	-26,942
Transformation Sector	137,816	180,262	177,547	158,886	159,778	146,910	137,024	141,474
Power Generation	-33,298	-24,474	-26,491	-20,248	-19,439	-23,059	-32,590	-27,266
Petroleum Refineries	174,595	208,447	206,425	180,797	181,228	172,092	171,831	171,012
Final Energy Consumption	183,350	211,805	202,569	165,053	169,131	161,895	160,230	155,400
Industry	63,595	74,731	69,814	53,813	55,716	51,954	50,061	50,406
Transport	68,308	85,531	84,953	76,876	78,383	75,781	76,340	74,021
Residential	16,289	18,647	19,935	16,053	16,666	16,671	16,864	15,481
Commerce & Public Services	15,931	16,672	14,416	9,387	9,222	8,693	8,271	7,699
Others	19,228	16,225	13,451	8,925	9,144	8,795	8,694	7,794
Natural Gas								
Primary Energy Supply	43,525	64,918	70,914	79,120	85,326	95,301	105,526	105,918
Indigenous Production	1,847	2,159	2,855	3,326	3,159	3,100	3,045	2,651
Import	41,684	62,759	68,070	75,778	82,183	92,188	102,497	103,270
Export	-	-	-	-	-	-	-	-
Transformation Sector	-28,871	-42,730	-46,781	-51,845	-53,826	-63,589	-72,885	-72,725
Power Generation	-32,537	-46,025	-48,578	-52,816	-54,964	-64,743	-74,132	-73,689
Final Energy Consumption	14,484	23,519	24,403	26,784	29,541	30,046	30,922	29,611
Industry	4,072	9,076	9,718	12,305	14,635	15,599	16,147	14,938
Transport	-	-	65	90	91	91	93	89
Residential	7,113	8,894	8,522	8,388	8,472	8,442	8,652	8,309
Commerce & Public Services	3,300	5,549	6,099	6,001	6,344	5,914	6,030	6,275
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	72,547	93,482	99,187	94,197	99,624	95,536	95,641	93,544
Thermal	44,146	53,165	58,565	55,278	57,381	64,824	77,334	76,410
Hydro	7,827	7,479	7,037	6,824	7,827	7,365	6,865	6,960
Nuclear	17,008	27,776	25,455	23,858	25,396	14,153	1,563	1,269
Others	3,566	5,062	8,130	8,237	9,020	9,193	9,879	8,905
Final Energy Consumption	64,052	82,913	86,656	82,452	88,170	84,834	84,702	84,162
Industry	31,971	36,332	36,936	32,656	35,878	34,785	34,246	33,786
Transport	1,696	1,875	1,851	1,802	1,829	1,727	1,737	1,835
Residential	16,074	22,665	23,920	24,402	25,886	24,936	25,025	24,516
Commerce & Public Services	14,041	21,711	23,624	23,298	24,261	23,080	23,385	23,719
Others	270	328	325	294	316	306	309	307

Major Economic Indicators of Japan

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	123.54	126.84	127.77	128.05	128.07	127.82	127.56	127.34
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	4,552.93	5,093.00	5,404.83	5,251.10	5,495.39	5,470.51	5,566.44	5,656.25
Real Term (Billions of 2010 Price and 2010 PPP)	3,580.08	4,004.74	4,249.94	4,129.06	4,321.15	4,301.59	4,377.02	4,447.64
Nominal (Billions of Current USD)	3,103.70	4,731.20	4,571.87	5,035.14	5,495.39	5,905.63	5,954.48	4,919.56
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	36,855	40,152	42,300	41,009	42,909	42,799	43,637	44,419
Real Term (2010 Price and 2010 PPP)	28,980	31,572	33,262	32,246	33,741	33,654	34,313	34,928
Nominal (Current USD)	25,124	37,300	35,781	39,323	42,909	46,204	46,679	38,634
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	449,392.2	509,860.0	503,903.0	471,138.7	482,384.4	471,310.8	475,110.4	480,128.0
Household Final Consumption Expenditure	239,418.4	288,167.2	291,132.6	282,941.7	285,867.1	284,244.3	288,195.2	293,549.6
General Government Final Consumption Expenditure	59,727.9	86,307.8	92,468.1	93,819.6	95,128.6	96,116.6	97,145.3	98,773.7
Gross Fixed Capital Formation	143,629.3	128,515.4	112,573.9	97,990.5	96,431.0	97,107.0	100,019.6	104,318.5
Stock Change	3,296.1	-516.8	634.7	-5,339.8	-805.6	-1,883.1	-858.4	-2,879.7
Exports of Goods and Services	46,233.6	55,459.4	72,121.9	59,814.2	73,182.5	71,297.8	69,765.1	77,547.4
Imports of Goods and Services	42,149.4	48,073.0	65,028.3	58,087.5	67,419.2	75,571.8	79,156.5	91,181.4
Real GDP & its Components (Billions of 2005 JPY) *1								
Gross Domestic Product	424,479.1	474,830.2	503,903.0	489,570.9	512,345.9	510,026.4	518,970.7	527,343.6
Household Final Consumption Expenditure	240,611.3	274,364.7	291,132.6	292,341.7	300,435.6	301,219.0	308,072.2	314,494.5
General Government Final Consumption Expenditure	61,161.4	82,990.8	92,468.1	95,524.9	97,335.1	98,536.7	100,179.9	102,095.7
Gross Fixed Capital Formation	126,528.6	119,223.2	112,573.9	98,281.5	98,043.3	99,399.1	102,787.3	106,037.9
Stock Change	N.A.	-407.9	652.8	-4,964.3	-615.8	-1,802.8	-826.6	-2,778.6
Exports of Goods and Services	34,650.6	54,195.8	72,121.9	66,256.9	82,398.9	82,106.3	81,958.0	83,211.2
Imports of Goods and Services	38,233.6	54,931.7	65,028.3	58,828.9	65,338.2	69,198.9	72,847.2	75,100.3
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	1.8	1.6	1.2	1.3	1.2	1.2	1.2	1.2
Industry	33.6	28.8	27.9	26.2	28.6	27.9	27.5	27.3
Services, etc.	63.2	69.5	70.2	71.1	68.7	69.5	69.6	69.4
Industrial Production Index (2010=100) *2	105.7	104.3	106.1	87.0	100.0	97.1	97.7	96.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	287.581	479.249	594.941	580.719	769.774	823.184	798.568	715.097
Imports, c.i.f.	235.368	379.511	515.866	551.981	694.059	855.380	885.843	833.166
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	0.107	0.058	0.109	-0.004	-0.053	-0.090
Current Account	N.A.	N.A.	0.170	0.146	0.221	0.130	0.060	0.041
Overall Balance	N.A.	N.A.	0.039	0.000	0.013	0.149	-0.032	0.082
Foreign Exchange Rate (JPY/USD) *1	144.793	107.765	110.218	93.570	87.780	79.807	79.790	97.596
PPP conversion factor, GDP (JPY/International Dollar) *1	189.172	154.969	129.552	115.497	111.633	107.454	104.628	104.090
Price Indices								
GDP Deflator (2005=100) *3	105.9	107.4	100.0	96.2	94.2	92.4	91.5	91.0
Wholesale Prices (2010=100) *2	107.7	99.5	97.2	100.1	100.0	101.5	100.6	101.9
Consumer Price Index (2010=100) *2	94.5	102.7	100.4	100.7	100.0	99.7	99.7	100.0
Growth Rate (%) *3								
Real GDP	5.57	2.26	1.30	-5.53	4.65	-0.45	1.75	1.61
Population	0.34	0.17	0.01	-0.01	0.02	-0.20	-0.20	-0.17
Price								
Wholesale Prices	1.50	0.05	1.66	-5.25	-0.14	1.48	-0.88	1.26
Consumer Price Index	3.03	-0.65	-0.27	-1.35	-0.72	-0.28	-0.03	0.36

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 Price of Japan in 2013

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	99.95
Local Currency Unit		Yen

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	Yen/ton	13,492	Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	Yen/ton	10,776	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	69,225	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	Yen/ton	93,177	LPG	Yen/kg	160.1	LPG	Yen/m3	762.8
Naphtha	Yen/kL	65,444	Naphtha	Yen/kL	75,432	Naphtha		
Motor Gasoline	Yen/kL	74,635	Motor Gasoline	Yen/kL	143,076	Motor Gasoline (regular)	Yen/L	157.0
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	89,145	Other Kerosene	Yen/kL	89,250	Other Kerosene	Yen/L	107.9
Gas/Diesel Oil	Yen/kL	79,522	Gas/Diesel Oil	Yen/kL	120,799	Gas/Diesel Oil	Yen/L	137.0
Fuel Oil	Yen/kL	71,150	Fuel Oil	Yen/kL	64,715	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/ton	83,697	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	25.55
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

3.9 Republic of Korea

Energy Balance Table of Republic of Korea

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	808	-	605	-	-	-	-	-	-
Import	76,574	251	125,526	40,423	239	25,253	-	24	1,419
Export	-	-	-286	-56,580	-7,976	-4,801	-11,999	-884	-22,281
International Marine Bunkers	-	-	-	-8,333	-	-	-	-	-837
International Aviation Bunkers	-	-	-	-4,276	-	-	-4,276	-	-
Stock Changes	-312	-	1,041	-1,549	-200	-84	-98	-379	-661
Total Primary Energy Supply	77,069	251	126,886	-30,315	-7,938	20,369	-16,373	-1,240	-22,361
Transfers	-	-	58	-43	185	30	108	-135	308
Total Transformation Sector	-72,419	6,712	-124,622	117,787	16,152	16,557	17,428	2,900	41,194
Main Activity Producer	-47,127	-812	-	-3,904	-	-	-	-90	-101
Autoproducers	-3,013	-2,501	-	-1,393	-	-1,088	-	-	-
Gas Processing	-	-	-	-166	-	-	-	-	-1
Petroleum Refineries	-	-	-132,815	130,811	16,152	25,206	17,428	2,990	41,296
Coal Transformation	-22,279	10,025	-	-	-	-	-	-	-
Other Transformation	-	-	8,193	-7,561	-	-7,561	-	-	-
Loss & Own Use	-	-2,822	-3	-6,051	-1	-	-	-1	-30
Discrepancy	-348	-725	-2,319	3,546	770	1,552	5	1,023	972
Total Final Energy Consumption	4,302	3,416	-	84,923	9,169	38,508	1,169	2,546	20,084
Industry Sector	4,302	2,090	-	3,479	-	-	-	243	1,212
Iron and Steel	914	1,838	-	101	-	-	-	-	7
Chemical & Petrochemical	135	-	-	531	-	-	-	26	27
Non-metallic Minerals	2,737	-	-	501	-	-	-	6	121
Other Industries	515	251	-	2,347	-	-	-	211	1,056
Transport Sector	-	-	-	29,953	9,168	-	665	3	15,750
Domestic Air Transport	-	-	-	669	-	-	665	-	4
Road	-	-	-	28,923	9,168	-	-	3	15,461
Rail	-	-	-	149	-	-	-	-	149
Inland Waterways	-	-	-	211	-	-	-	-	136
Pipeline Transport	-	-	-	1	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	853	-	8,178	1	-	504	2,300	3,123
Residential	-	853	-	2,952	-	-	-	1,458	528
Commerce and Public Services	-	-	-	2,139	-	-	41	537	375
Agriculture	-	-	-	1,161	-	-	-	235	885
Non-specified Others	-	-	-	1,927	1	-	462	71	1,334
Non-energy	-	474	-	43,314	-	38,508	-	-	-
2012									
Indigenous Production	932	-	718	-	-	-	-	-	-
Import	75,318	253	131,073	37,435	15	25,212	-	19	915
Export	-	-	-356	-58,465	-7,908	-4,041	-12,270	-1,005	-24,062
International Marine Bunkers	-	-	-	-8,524	-	-	-	-	-829
International Aviation Bunkers	-	-	-	-4,050	-	-	-4,050	-	-
Stock Changes	59	-	-929	318	-126	-393	-78	379	314
Total Primary Energy Supply	76,309	253	130,506	-33,285	-8,019	20,778	-16,397	-607	-23,662
Transfers	-	-	259	-733	16	21	175	-299	124
Total Transformation Sector	-72,639	7,195	-129,475	121,149	16,305	15,755	17,521	4,240	42,787
Main Activity Producer	-47,148	-812	-	-3,759	-	-	-	-64	-154
Autoproducers	-3,114	-2,897	-	-2,061	-	-1,892	-	-	-
Gas Processing	-	-	-	-725	-	-	-	-	-2
Petroleum Refineries	-	-	-137,929	135,531	16,305	25,088	17,521	4,304	42,943
Coal Transformation	-22,377	10,905	-	-	-	-	-	-	-
Other Transformation	-	-	8,453	-7,836	-	-7,441	-	-	-
Loss & Own Use	-	-2,897	-12	-4,960	-	-	-	-1	-25
Discrepancy	825	218	-1,278	2,527	322	1,348	-11	-359	-46
Total Final Energy Consumption	4,495	4,769	-	84,699	8,625	37,901	1,288	2,975	19,178
Industry Sector	4,495	3,499	-	4,145	-	-	-	262	1,171
Iron and Steel	1,092	3,245	-	131	-	-	-	-	7
Chemical & Petrochemical	392	-	-	672	-	-	-	-	28
Non-metallic Minerals	2,724	-	-	603	-	-	-	8	114
Other Industries	287	254	-	2,739	-	-	-	254	1,022
Transport Sector	-	-	-	28,900	8,624	-	810	-	14,972
Domestic Air Transport	-	-	-	817	-	-	810	-	5
Road	-	-	-	27,686	8,624	-	-	-	14,669
Rail	-	-	-	168	-	-	-	-	168
Inland Waterways	-	-	-	228	-	-	-	-	130
Pipeline Transport	-	-	-	1	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	816	-	8,695	1	-	478	2,682	3,035
Residential	-	816	-	2,903	-	-	-	1,720	481
Commerce and Public Services	-	-	-	2,726	-	-	18	631	393
Agriculture	-	-	-	1,166	-	-	-	252	866
Non-specified Others	-	-	-	1,900	1	-	460	78	1,295
Non-energy	-	455	-	42,959	-	37,901	-	31	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	415	369	36,167	393	4,666	-	-	43,423
7,053	6,406	-	-	29	47,666	-	-	-	-	-	-	290,441
-3,427	-87	-	-	-5,125	-	-	-	-	-	-	-	-56,866
-7,496	-	-	-	-	-	-	-	-	-	-	-	-8,333
-	-	-	-	-	-	-	-	-	-	-	-	-4,276
14	-185	-	-	43	-464	-	-	-	-	-	-	-1,285
-3,855	6,135	-	-	-5,053	47,618	369	36,167	393	4,666	-	-	263,103
216	-108	-79	-	-568	-	-	-	-	-	-	-	15
8,296	1,802	4,369	-	9,089	-22,730	-369	-36,167	-278	-1,700	46,259	4,797	-82,730
-3,712	-1	-	-	-	-22,157	-369	-36,167	-253	-129	43,837	1,751	-65,331
-	-	-	-	-306	-619	-	-	-25	-1,253	2,422	3,046	-3,336
-	-165	-	-	-	46	-	-	-	-	-	-	-120
12,008	1,969	4,369	-	9,394	-	-	-	-	-	-	-	-2,004
-	-	-	-	-	-	-	-	-	-	-	-	-12,254
-	-	-	-	-	-	-	-	-	-318	-	-	315
-1,317	-112	-4,448	-	-143	-213	-	-	-	-	-4,401	-145	-13,636
-1,546	844	159	-	-233	-534	-	-	0	53	35	-396	-687
1,794	8,562	-	-	3,091	24,140	-	-	115	3,020	41,893	4,256	166,065
1,305	635	-	-	84	9,803	-	-	3	2,167	21,990	2,124	45,957
26	67	-	-	-	1,691	-	-	-	7	4,594	8	9,153
478	-	-	-	-	3,026	-	-	-	49	4,035	1,369	9,146
273	16	-	-	84	644	16	-	-	744	991	1	5,617
528	551	-	-	-	4,442	-	-	3	1,366	12,371	746	22,041
80	4,286	-	-	-	1,204	-	-	-	-	186	-	31,343
-	-	-	-	-	-	-	-	-	-	-	-	669
5	4,286	-	-	-	1,204	-	-	-	-	-	-	30,127
-	-	-	-	-	-	-	-	-	-	186	-	335
74	-	-	-	-	-	-	-	-	-	-	-	211
1	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-
408	1,842	-	-	-	13,133	-	-	112	853	19,716	2,133	44,978
92	874	-	-	-	8,984	-	-	24	123	5,503	1,850	20,289
244	941	-	-	-	4,146	-	-	77	672	13,090	283	20,406
39	2	-	-	-	3	-	-	11	54	917	-	2,146
34	25	-	-	-	-	-	-	-	3	207	-	2,136
-	1,799	-	-	3,007	-	-	-	-	-	-	-	43,787
-	-	-	-	-	391	341	39,175	265	4,277	-	-	46,100
4,166	7,102	-	-	6	42,853	-	-	-	-	-	-	286,933
-4,342	-174	-	-	-4,663	-	-	-	-	-	-	-	-58,821
-7,694	-	-	-	-	-	-	-	-	-	-	-	-8,524
-	-	-	-	-	-	-	-	-	-	-	-	-4,050
82	297	-	-	-159	1,746	-	-	-	-	-	-	1,194
-7,788	7,225	-	-	-4,816	44,990	341	39,175	265	4,277	-	-	262,833
-212	-80	-485	-	7	-	-	-	-	-	-	-	-474
12,008	738	3,089	-	8,706	-21,655	-341	-39,175	-174	-1,590	45,660	5,243	-85,802
-3,542	-	-	-	-	-21,543	-341	-39,175	-156	-131	42,998	1,844	-68,223
-	-	-	-	-168	-676	-	-	-18	-1,157	2,662	3,399	-3,861
-	-723	-	-	-	563	-	-	-	-	-	-	-163
15,549	1,694	3,089	-	9,037	-	-	-	-	-	-	-	-2,398
-	-	-	-	-	-	-	-	-	-	-	-	-11,472
-	-232	-	-	-162	-	-	-	-	-303	-	-	314
-1,163	-107	-3,574	-	-90	-237	-	-	-	-	-4,286	-143	-12,534
-215	566	970	-	-49	-194	-	-	-0	48	26	-126	2,045
2,630	8,343	-	-	3,758	22,904	-	-	92	2,735	41,401	4,974	166,068
1,861	735	-	-	115	9,292	-	-	2	1,890	21,555	2,128	47,006
50	74	-	-	-	1,584	-	-	-	5	4,631	12	10,698
643	-	-	-	-	2,283	-	-	-	45	3,911	1,291	8,594
345	21	-	-	115	589	-	-	-	674	951	1	5,542
823	640	-	-	-	4,836	-	-	2	1,167	12,062	825	22,172
109	4,385	-	-	-	1,149	-	-	-	-	194	-	30,242
2	-	-	-	-	-	-	-	-	-	-	-	817
9	4,384	-	-	-	1,149	-	-	-	-	-	-	28,835
-	-	-	-	-	-	-	-	-	-	194	-	361
97	1	-	-	-	-	-	-	-	-	-	-	228
1	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-
660	1,839	-	-	-	12,463	-	-	89	845	19,652	2,846	45,406
130	571	-	-	-	9,106	-	-	21	69	5,495	1,884	20,293
445	1,240	-	-	-	3,351	-	-	61	743	13,119	962	20,964
46	2	-	-	-	5	-	-	7	29	826	-	2,033
40	26	-	-	-	-	-	-	-	3	213	-	2,116
-	1,384	-	-	3,643	-	-	-	-	-	-	-	43,414

Major Energy Indicators of Republic of Korea

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	93,089	188,168	210,174	229,106	249,863	260,333	262,833	263,103
Indigenous Production	22,622	34,444	42,970	44,235	44,813	46,873	46,100	43,423
Import	73,944	206,677	211,305	242,436	266,858	282,266	286,933	290,441
Export	-3,795	-40,939	-35,741	-44,330	-45,797	-54,889	-58,821	-56,866
Final Energy Consumption	64,908	127,112	140,459	147,414	157,414	160,873	166,068	166,065
Industry	19,263	38,473	39,065	39,552	44,730	47,027	47,006	45,957
Transport	14,573	26,266	29,186	29,277	29,915	29,425	30,242	31,343
Residential	12,942	15,036	18,411	18,641	19,861	20,146	20,293	20,289
Commerce & Public Services	8,692	17,211	19,227	19,212	20,503	20,160	20,964	20,406
Others	9,438	30,125	34,570	40,732	42,404	44,115	47,563	48,069
Coal, Coal Products								
Primary Energy Supply	25,558	41,952	49,545	64,844	73,426	80,236	76,562	77,320
Indigenous Production	7,576	3,638	1,261	1,159	959	959	932	808
Import	15,725	39,137	46,929	62,923	72,949	79,484	75,571	76,825
Export	-	-	-	-	-	-	-	-
Transformation Sector	-13,163	-31,417	-41,187	-55,738	-61,139	-67,007	-65,443	-65,707
Power Generation	-5,955	-24,844	-33,117	-47,934	-52,203	-55,581	-53,971	-53,452
Final Energy Consumption	11,717	9,071	7,747	7,772	9,293	9,435	9,265	7,718
Industry	3,052	8,505	6,794	6,499	8,033	8,268	7,994	6,391
Transport	-	-	-	-	-	-	-	-
Residential	8,638	566	954	893	855	838	816	853
Commerce & Public Services	27	-	-	-	-	-	-	-
Others	-	-	-	380	405	329	455	474
Crude Oil								
Primary Energy Supply	43,241	126,497	118,808	115,009	120,996	128,029	130,506	126,886
Indigenous Production	-	670	534	692	698	707	718	605
Import	42,674	125,813	117,341	117,640	121,574	127,919	131,073	125,526
Export	-	-99	-3	-325	-481	-584	-356	-286
Transformation Sector	-42,523	-123,380	-118,554	-114,642	-118,785	-126,156	-129,475	-124,622
Petroleum Refineries	-42,523	-128,555	-124,572	-122,649	-126,126	-134,651	-137,929	-132,815
Petroleum Products								
Primary Energy Supply	6,495	-27,455	-26,316	-24,417	-25,879	-34,317	-33,285	-30,315
Import	12,841	24,629	20,897	31,641	33,027	32,960	37,435	40,423
Export	-3,795	-40,840	-35,738	-44,005	-45,315	-54,304	-58,465	-56,580
Transformation Sector	39,028	112,592	110,491	107,470	111,471	118,785	121,149	117,787
Power Generation	-4,512	-8,032	-7,109	-5,020	-5,047	-4,434	-5,820	-5,297
Petroleum Refineries	43,540	125,628	123,435	120,282	123,796	131,796	135,531	130,811
Final Energy Consumption	43,661	79,877	79,649	79,916	82,166	82,364	84,699	84,923
Industry	10,883	10,974	7,972	5,831	5,902	5,191	4,145	3,479
Transport	14,486	26,091	28,638	28,195	28,703	28,158	28,900	29,953
Residential	1,916	3,878	3,181	2,932	2,981	3,206	2,903	2,952
Commerce & Public Services	7,064	9,277	5,915	3,396	3,448	2,965	2,726	2,139
Others	9,313	29,658	33,943	39,562	41,132	42,845	46,025	46,401
Natural Gas								
Primary Energy Supply	2,725	17,010	27,376	31,713	38,631	41,584	44,990	47,618
Indigenous Production	-	-	441	449	485	406	391	415
Import	2,681	17,071	26,111	30,211	39,290	41,902	42,853	47,666
Export	-	-	-	-	-	-	-	-
Transformation Sector	-2,037	-5,757	-11,076	-12,169	-17,640	-19,531	-21,655	-22,730
Power Generation	-2,037	-5,757	-11,076	-12,394	-18,006	-20,037	-22,218	-22,776
Final Energy Consumption	673	10,927	15,986	18,123	20,586	21,576	22,904	24,140
Industry	73	2,881	4,168	5,633	7,092	8,276	9,292	9,803
Transport	-	-	324	895	1,023	1,074	1,149	1,204
Residential	465	6,230	8,374	8,267	8,940	8,906	9,106	8,984
Commerce & Public Services	136	1,806	3,096	3,324	3,526	3,316	3,351	4,146
Others	-	11	25	4	4	4	5	3
Electricity								
Power Generation	9,062	24,813	33,357	38,844	42,718	44,725	45,660	46,259
Thermal	3,921	14,880	19,932	24,989	28,449	29,614	30,800	32,174
Hydro	547	345	316	242	317	395	341	369
Nuclear	4,594	9,465	12,750	12,836	12,908	13,440	13,058	12,056
Others	0	123	359	777	1,044	1,275	1,461	1,660
Final Energy Consumption	8,117	22,628	30,756	34,890	38,644	40,473	41,401	41,893
Industry	4,970	12,934	15,820	17,142	19,618	21,160	21,555	21,990
Transport	87	175	224	187	188	193	194	186
Residential	1,525	3,191	4,375	4,961	5,271	5,320	5,495	5,503
Commerce & Public Services	1,409	5,873	9,734	11,814	12,703	12,890	13,119	13,090
Others	125	456	603	786	864	909	1,038	1,123

Major Economic Indicators of Republic of Korea

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	42.87	47.01	48.14	49.18	49.41	49.78	50.00	50.22
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	377.05	710.04	894.71	1,027.73	1,094.50	1,134.80	1,160.81	1,194.43
Real Term (Billions of 2010 Price and 2010 PPP)	518.57	976.53	1,230.52	1,413.47	1,505.30	1,560.72	1,596.50	1,642.73
Nominal (Billions of Current USD)	284.76	561.63	898.14	901.93	1,094.50	1,202.46	1,222.81	1,305.60
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	8,795	15,105	18,586	20,896	22,151	22,796	23,214	23,784
Real Term (2010 Price and 2010 PPP)	12,097	20,774	25,562	28,740	30,465	31,353	31,927	32,711
Nominal (Current USD)	6,642	11,948	18,658	18,339	22,151	24,156	24,454	25,998
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	201,540	635,185	919,797	1,151,708	1,265,308	1,332,681	1,377,457	1,429,445
Household Final Consumption Expenditure	94,968	341,442	480,170	594,883	636,713	679,142	707,614	727,800
General Government Final Consumption Expenditure	22,054	72,019	122,175	174,706	183,109	194,381	204,324	214,467
Gross Fixed Capital Formation	69,234	200,825	283,859	360,697	385,924	403,045	407,307	418,289
Stock Change	801	8,416	11,976	-32,856	19,264	36,191	19,722	-2,288
Exports of Goods and Services	52,187	222,371	338,574	547,634	625,309	742,936	776,063	770,115
Imports of Goods and Services	54,195	209,219	316,177	493,655	585,010	723,014	737,573	698,937
Real GDP & its Components (Billions of 2010 KRW) *1								
Gross Domestic Product	435,897	820,844	1,034,338	1,188,118	1,265,308	1,311,893	1,341,966	1,380,830
Household Final Consumption Expenditure	271,452	456,116	546,548	609,997	636,713	655,181	667,781	680,350
General Government Final Consumption Expenditure	70,285	110,086	140,003	176,323	183,109	187,158	193,474	199,783
Gross Fixed Capital Formation	181,152	283,424	338,300	365,746	385,924	389,124	387,240	400,026
Stock Change	-42,875	13,196	13,002	-22,746	19,265	30,158	22,400	9,128
Exports of Goods and Services	59,083	250,691	410,113	554,856	625,309	719,943	756,558	788,829
Imports of Goods and Services	99,319	278,478	413,372	498,917	585,010	668,931	685,009	696,724
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.8	3.0	2.5	2.5	2.2	2.1	2.0	2.1
Industry	31.2	31.0	32.8	33.4	34.6	34.9	34.8	34.9
Services, etc.	59.5	55.4	54.6	54.7	53.6	53.3	53.6	53.5
Industrial Production Index (2010=100) *2	22.9	53.4	71.9	86.0	100.0	106.0	107.4	108.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	65.016	172.267	284.419	363.534	466.384	555.214	547.870	559.632
Imports, c.i.f.	69.844	160.481	261.238	323.085	425.212	524.413	519.584	515.586
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-3.280	15.631	32.313	47.814	47.915	29.090	49.406	82.781
Current Account	-2.404	10.444	12.655	33.593	28.850	18.656	50.835	81.148
Overall Balance	-0.060	24.634	13.689	73.309	32.568	8.181	12.395	17.313
Foreign Exchange Rate (KRW/USD) *1	707.764	1,130.958	1,024.117	1,276.930	1,156.061	1,108.292	1,126.471	1,094.853
PPP conversion factor, GDP (KRW/International Dollar) *1	545.980	746.883	788.920	824.761	840.569	854.586	860.249	860.219
Price Indices								
GDP Deflator (2010=100) *3	46.2	77.4	88.9	96.9	100.0	101.6	102.6	103.5
Producer Prices (2010=100)*2	56.3	79.1	86.9	96.3	100.0	106.7	107.5	105.7
Consumer Price Index (2010=100)*2	44.5	73.1	86.1	97.1	100.0	104.0	106.3	107.7
Growth Rate (%) *3								
Real GDP	9.30	8.83	3.92	0.71	6.50	3.68	2.29	2.90
Population	0.99	0.84	0.21	0.48	0.46	0.75	0.45	0.43
Price								
Producer Prices	4.18	2.02	2.13	-0.21	3.81	6.71	0.69	-1.60
Consumer Price Index	8.58	2.27	2.75	2.76	2.96	4.00	2.19	1.31

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

Energy Price of Republic of Korea in 2013

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	1055.4
Local Currency Unit		KRW

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/ton	150.30	Coking Coal			Coking Coal		
Anthracite	USD/ton	134.70	Anthracite			Anthracite		
Other bituminous coal	USD/ton	88.70	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	USD/bbl	108.27	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD/bbl	77.28	LPG	KRW/kg	1,216.7	LPG	KRW/kg	2,085.3
Naphtha	USD/bbl	102.95	Naphtha			Naphtha		
Motor Gasoline	USD/bbl	124.66	Motor Gasoline	KRW/liter	1,796.6	Motor Gasoline	KRW/liter	1,942.5
Aviation Gasoline	USD/bbl	184.57	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	USD/bbl	126.67	Other Kerosene	KRW/liter	1,126.9	Other Kerosene	KRW/liter	1,366.7
Gas/Diesel Oil	USD/bbl	127.25	Gas/Diesel Oil	KRW/liter	1,609.2	Gas/Diesel Oil	KRW/liter	1,729.6
Fuel Oil	USD/bbl	101.33	Fuel Oil	KRW/liter	918.7	Fuel Oil		
White Spirit SBP	USD/bbl	147.07	White Spirit SBP	KRW/liter	829.1	White Spirit SBP		
Lubricants	USD/bbl	184.00	Lubricants			Lubricants		
Bitumen			Bitumen	KRW/kg	716.6	Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	USD/ton	768.51	Natural Gas	KRW/MJ	19.48	Natural Gas	KRW/MJ	20.58
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		
						*Average		
Other Energy Products			Other Energy Products			Other Energy Products		

3.10 Malaysia

Energy Balance Table of Malaysia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	1,823	-	29,903	-	-	-	-	-	-
Import	13,900	-	9,103	19,370	8,805	-	857	289	5,102
Export	-326	-	-10,816	-11,976	-86	-	-572	-538	-5,315
International Marine Bunkers	-	-	-	-348	-	-	-	-	-2
International Aviation Bunkers	-	-	-	-2,397	-	-	-2,397	-	-
Stock Changes	-106	-	526	-1,716	-735	-	-20	-5	-850
Total Primary Energy Supply	15,290	-	28,716	2,932	7,984	-	-2,131	-254	-1,064
Transfers	-	-	-1,765	1,856	-	-	-	51	133
Total Transformation Sector	-13,519	-	-26,187	24,387	4,700	-	2,749	424	10,537
Main Activity Producer	-13,519	-	-	-1,016	-	-	-	-	-623
Autoproducers	-	-	-	-22	-	-	-	-	-22
Gas Processing	-	-	-	714	-	-	-	37	126
Petroleum Refineries	-	-	-26,666	24,711	4,700	-	2,749	387	11,056
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	479	-	-	-	-	-	-
Loss & Own Use	-	-	-	-1,421	-	-	-	-	-
Discrepancy	-233	-	-763	-979	-36	-	-19	-190	-44
Total Final Energy Consumption	1,538	-	-	26,775	12,648	-	599	31	9,562
Industry Sector	1,538	-	-	2,659	273	-	-	30	1,919
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	1,538	-	-	-	-	-	-	-	-
Other Industries	-	-	-	2,659	273	-	-	30	1,919
Transport Sector	-	-	-	19,447	12,280	-	599	-	6,508
Domestic Air Transport	-	-	-	599	-	-	599	-	-
Road	-	-	-	12,280	12,280	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	6,568	-	-	-	-	6,508
Other Sector	-	-	-	2,669	96	-	-	1	1,135
Residential	-	-	-	735	-	-	-	1	-
Commerce and Public Services	-	-	-	915	-	-	-	-	217
Agriculture	-	-	-	6	-	-	-	-	-
Non-specified Others	-	-	-	1,013	96	-	-	-	918
Non-energy	-	-	-	2,000	-	-	-	-	-
2012									
Indigenous Production	1,860	-	31,321	-	-	-	-	-	-
Import	14,220	-	10,003	12,725	5,918	-	346	5	3,504
Export	-232	-	-12,086	-13,967	-2,078	-	-1,008	-703	-5,308
International Marine Bunkers	-	-	-	-57	-	-	-	-	-3
International Aviation Bunkers	-	-	-	-2,017	-	-	-2,017	-	-
Stock Changes	-52	-	967	282	175	-	-767	1	1,506
Total Primary Energy Supply	15,796	-	30,204	-3,034	4,016	-	-3,445	-698	-302
Transfers	-	-	-2,206	2,036	-	-	-	-	-
Total Transformation Sector	-14,138	-	-27,650	25,501	4,617	-	3,918	691	9,448
Main Activity Producer	-14,138	-	-	-1,361	-	-	-	-	-811
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	715	-	-	-	37	126
Petroleum Refineries	-	-	-27,749	26,147	4,617	-	3,918	654	10,132
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	99	-	-	-	-	-	-
Loss & Own Use	-	-	-	-1,753	-	-	-	-	-
Discrepancy	86	-	-348	-34	286	-	31	43	-290
Total Final Energy Consumption	1,744	-	-	22,716	8,919	-	504	37	8,856
Industry Sector	1,744	-	-	4,528	216	-	-	26	1,991
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	1,744	-	-	-	-	-	-	-	-
Other Industries	-	-	-	4,528	216	-	-	26	1,991
Transport Sector	-	-	-	14,835	8,617	-	504	-	5,709
Domestic Air Transport	-	-	-	504	-	-	504	-	-
Road	-	-	-	8,617	8,617	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	5,714	-	-	-	-	5,709
Other Sector	-	-	-	2,614	86	-	-	11	1,156
Residential	-	-	-	714	-	-	-	11	-
Commerce and Public Services	-	-	-	877	-	-	-	-	225
Agriculture	-	-	-	937	-	-	-	0	930
Non-specified Others	-	-	-	86	86	-	-	-	-
Non-energy	-	-	-	739	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	58,880	910	-	12	-	-	-	91,528
2,953	421	-	-	942	8,726	-	-	-	-	19	-	51,117
-3,037	-340	-	-	-2,089	-34,383	-	-	-	-	-2	-	-57,504
-346	-	-	-	-	-	-	-	-	-	-	-	-348
-	-	-	-	-	-	-	-	-	-	-	-	-2,397
-170	222	-	-	-158	-	-	-	-	-	-	-	-1,296
-601	302	-	-	-1,305	33,223	910	-	12	-	16	-	81,100
-	1,378	-	-	294	-	-	-	-	-	-	-	91
893	1,478	195	-	3,411	-21,511	-910	-	-12	-	11,896	-	-25,855
-393	-	-	-	-	-13,265	-910	-	-12	-	11,465	-	-17,257
-	-	-	-	-	-1,619	-	-	-	-	432	-	-1,209
-	227	-	-	324	-3,456	-	-	-	-	-	-	-2,742
1,286	1,251	195	-	3,088	-	-	-	-	-	-	-	-1,955
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-3,170	-	-	-	-	-	-	-2,691
-17	-	-	-	-1,404	-1,918	-	-	-	-	-978	-	-4,316
53	-214	-195	-	-335	91	-	-	-	-	-350	-	-2,235
328	2,945	-	-	662	9,886	-	-	-	-	10,585	-	48,784
258	179	-	-	-	4,634	-	-	-	-	4,806	-	13,637.71
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	1,538
258	179	-	-	-	4,634	-	-	-	-	4,806	-	12,099.25
59	-	-	-	-	284	-	-	-	-	21	-	19,751.43
-	-	-	-	-	-	-	-	-	-	-	-	599
-	-	-	-	-	284	-	-	-	-	-	-	12,564
-	-	-	-	-	-	-	-	-	-	21	-	21
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
59	-	-	-	-	-	-	-	-	-	-	-	6,567.65
11	1,427	-	-	-	22	-	-	-	-	5,758	-	8,450
-	734	-	-	-	1	-	-	-	-	2,261	-	2,997
5	693	-	-	-	22	-	-	-	-	3,465	-	4,401
6	-	-	-	-	-	-	-	-	-	32	-	38
-	-	-	-	-	-	-	-	-	-	-	-	1,013
-	1,338	-	-	662	4,946	-	-	-	-	-	-	6,945
-	-	-	-	-	51,157	796	-	4	745	-	-	85,883
794	448	-	-	1,710	7,819	-	-	-	-	9	-	44,775
-1,017	-435	-	-	-3,418	-26,755	-	-	-	-25	-1	-	-53,067
-54	-	-	-	-0	-	-	-	-	-	-	-	-57
-	-	-	-	-	-	-	-	-	-	-	-	-2,017
-	-10	-	-	-623	-	-	-	-	-94	-	-	1,102
-277	3	-	-	-2,331	32,222	796	-	4	626	7	-	76,621
-	2,036	-	-	-	-	-	-	-	-	-	-	-170
1,058	930	197	-	4,642	-20,944	-796	-	-4	-626	11,554	-	-27,102
-550	-	-	-	-	-11,465	-796	-	-4	-346	11,025	-	-17,084
-	-	-	-	-	-1,723	-	-	-	-180	529	-	-1,375
-	228	-	-	324	-7,756	-	-	-	-	-	-	-7,041
1,608	702	197	-	4,318	-	-	-	-	-	-	-	-1,603
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-99	-	-	-
-18	-	-197	-	-1,537	-1,129	-	-	-	-	-995	-	-3,876
6	-76	-	-	-34	-2	-	-	-	-	-556	-	-853
769	2,892	-	-	739	10,147	-	-	-	-	10,011	-	44,619
737	1,558	-	-	-	4,530	-	-	-	-	4,509	-	15,310
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	1,744
737	1,558	-	-	-	4,530	-	-	-	-	4,509	-	13,566
5	-	-	-	-	291	-	-	-	-	21	-	15,146
-	-	-	-	-	-	-	-	-	-	-	-	504
-	-	-	-	-	291	-	-	-	-	-	-	8,908
-	-	-	-	-	-	-	-	-	-	21	-	21
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	5,714
27	1,334	-	-	-	23	-	-	-	-	5,481	-	8,119
-	703	-	-	-	0	-	-	-	-	2,126	-	2,841
20	631	-	-	-	23	-	-	-	-	3,325	-	4,225
7	-	-	-	-	-	-	-	-	-	30	-	967
-	-	-	-	-	-	-	-	-	-	-	-	86
-	-	-	-	739	5,304	-	-	-	-	-	-	6,043

Major Economic Indicators of Malaysia

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	18.21	23.42	25.80	27.66	28.12	28.57	29.02	29.47
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	79.40	157.75	198.85	230.42	247.53	260.37	275.07	288.09
Real Term (Billions of 2010 Price and 2010 PPP)	181.27	360.15	453.97	526.05	565.11	594.43	627.98	657.71
Nominal (Billions of Current USD)	44.02	93.79	143.53	202.26	247.53	289.33	304.96	313.16
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	4,360	6,736	7,709	8,330	8,803	9,113	9,478	9,777
Real Term (2010 Price and 2010 PPP)	9,954	15,377	17,598	19,018	20,097	20,804	21,638	22,321
Nominal (Current USD)	2,417	4,005	5,564	7,312	8,803	10,126	10,508	10,628
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	119.080	356.400	543.578	712.857	797.327	885.340	941.950	986.733
Household Final Consumption Expenditure	61.687	155.941	240.188	348.168	378.791	418.766	461.296	504.046
General Government Final Consumption Expenditure	16.426	36.229	62.368	93.017	97.482	115.515	127.472	133.703
Gross Fixed Capital Formation	39.348	90.141	121.238	156.660	179.794	197.415	241.563	265.013
Stock Change	-0.813	5.615	0.505	-29.518	5.954	8.350	2.640	-7.566
Exports of Goods and Services	88.675	427.003	613.694	651.671	744.034	810.222	803.042	805.962
Imports of Goods and Services	86.241	358.529	494.414	507.142	608.728	664.928	694.063	714.425
Real GDP & its Components (Billions of 2005 MYR) *1								
Gross Domestic Product	217.047	431.234	543.578	629.884	676.659	711.759	751.935	787.531
Household Final Consumption Expenditure	100.531	173.205	240.188	309.170	330.385	353.293	382.384	409.818
General Government Final Consumption Expenditure	23.051	38.694	62.369	78.675	81.383	94.564	99.249	105.510
Gross Fixed Capital Formation	60.602	110.092	121.238	141.584	158.398	168.392	200.773	217.881
Stock Change	1.589	11.105	0.505	-8.682	8.129	3.173	5.629	-1.453
Exports of Goods and Services	147.427	472.790	613.694	615.024	683.391	713.893	700.820	705.261
Imports of Goods and Services	126.163	372.526	494.415	505.886	585.031	621.556	636.921	649.403
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	16.2	8.9	8.3	7.9	7.6	7.6	7.3	7.1
Industry	45.9	48.6	46.4	40.3	40.7	39.5	39.3	38.9
Services, etc.	37.9	42.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industrial Production Index (2010=100) *2	31.6	78.4	100.0	99.9	100.0	102.4	106.7	110.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	29.452	98.229	141.626	157.244	198.612	228.086	227.538	228.331
Imports, c.i.f.	29.258	81.963	114.324	123.757	164.622	187.473	196.393	205.897
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.525	20.721	32.982	40.731	42.301	49.549	40.719	32.494
Current Account	-0.870	8.488	19.980	31.801	26.998	33.508	18.638	11.732
Overall Balance	0.914	2.212	10.174	9.117	21.002	41.191	11.181	7.147
Foreign Exchange Rate (MYR/USD) *1	2.705	3.800	3.787	3.525	3.221	3.060	3.089	3.151
PPP conversion factor, GDP (MYR/International Dollar) *1	0.996	1.223	1.318	1.372	1.411	1.459	1.444	1.423
Price Indices								
GDP Deflator (2005=100) *3	54.9	82.6	100.0	113.2	117.8	124.4	125.3	125.3
Producer Prices (2010=100) *2	50.4	69.0	82.4	94.7	100.0	109.6	109.7	107.8
Consumer Price Index (2010=100) *2	56.8	80.5	87.7	98.3	100.0	103.2	104.9	107.1
Growth Rate (%) *3								
Real GDP	9.01	8.86	5.33	-1.51	7.43	5.19	5.64	4.73
Population	2.85	2.28	1.83	1.70	1.66	1.61	1.57	1.53
Price								
Producer Prices	0.86	3.10	6.86	-7.32	5.61	9.58	0.08	-1.70
Consumer Price Index	2.62	1.53	2.96	0.58	1.71	3.20	1.66	2.11

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

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Major Economic Indicators of Malaysia

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General Government Final Consumption Expenditure	23.051	38.694	62.369	78.675	81.383	94.564	99.249	105.510
Gross Fixed Capital Formation	60.602	110.092	121.238	141.584	158.398	168.392	200.773	217.881
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Services, etc.	37.9	42.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
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Current Account	-0.870	8.488	19.980	31.801	26.998	33.508	18.638	11.732
Overall Balance	0.914	2.212	10.174	9.117	21.002	41.191	11.181	7.147
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Purchasing Power Parity (MYR/International Dollar) *1	0.996	1.223	1.318	1.372	1.411	1.459	1.444	1.423
Price Indices								
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Growth Rate (%) *3								
Real GDP	9.01	8.86	5.33	-1.51	7.43	5.19	5.64	4.73
Population	2.85	2.28	1.83	1.70	1.66	1.61	1.57	1.53
Price								
Producer Prices	0.86	3.10	6.86	-7.32	5.61	9.58	0.08	-1.70
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Source *1 : World Development Indicators, World Bank

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Note

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: PPP means Purchasing Power Parity

3.11 Mexico

Energy Balance Table of Mexico

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	7,260	-	150,059	-	-	-	-	-	-
Import	4,346	250	411	28,777	15,559	701	157	-	5,376
Export	-3	-1	-67,272	-9,042	-	-2,777	-60	-	-464
International Marine Bunkers	-	-	-	-812	-	-	-	-	-714
International Aviation Bunkers	-	-	-	-3,036	-12	-	-3,024	-	-
Stock Changes	829	-	-438	216	49	-	-15	-	199
Total Primary Energy Supply	12,432	249	82,760	16,103	15,596	-2,077	-2,942	-	4,398
Transfers	-	-	-6,827	8,030	-	-703	-	-	-
Total Transformation Sector	-8,969	1,565	-74,701	57,977	19,540	3,523	2,955	-	20,431
Main Activity Producer	-6,776	-	-	-10,419	-	-	-	-	-616
Autoproducers	-38	-117	-	-1,657	-	-	-	-	-225
Gas Processing	-	-	-	-791	-	-	-	-	-
Petroleum Refineries	-	-	-74,852	71,004	19,540	3,683	2,955	-	21,272
Coal Transformation	-2,155	1,681	-	-	-	-	-	-	-
Other Transformation	-	-	151	-160	-	-160	-	-	-
Loss & Own Use	-	-91	-	-6,547	-	-	-	-	-892
Discrepancy	-13	0	-1,232	-3,214	49	214	-13	32	-4,974
Total Final Energy Consumption	3,450	1,724	-	72,350	35,186	958	-	32	18,963
Industry Sector	3,450	1,586	-	5,773	-	19	-	-	1,553
Iron and Steel	-	1,584	-	149	-	-	-	-	21
Chemical & Petrochemical	-	-	-	402	-	-	-	-	159
Non-metallic Minerals	144	-	-	2,400	-	-	-	-	10
Other Industries	3,306	2	-	2,821	-	19	-	-	1,362
Transport Sector	-	-	-	51,009	35,186	-	-	-	14,549
Domestic Air Transport	-	-	-	9	9	-	-	-	-
Road	-	-	-	49,673	35,177	-	-	-	13,223
Rail	-	-	-	636	-	-	-	-	636
Inland Waterways	-	-	-	692	-	-	-	-	690
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	10,609	-	-	-	32	2,861
Residential	-	-	-	6,076	-	-	-	32	-
Commerce and Public Services	-	-	-	1,635	-	-	-	-	106
Agriculture	-	-	-	2,898	-	-	-	-	2,755
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	138	-	4,958	-	938	-	-	-
2012									
Indigenous Production	7,529	-	152,190	-	-	-	-	-	-
Import	4,128	248	485	32,388	17,277	45	159	-	6,685
Export	-151	-	-70,781	-7,384	-	-2,896	-	-	-132
International Marine Bunkers	-	-	-	-930	-	-	-	-	-830
International Aviation Bunkers	-	-	-	-2,901	-12	-	-2,889	-	-
Stock Changes	-2,322	32	-286	-775	-	-	4	-	48
Total Primary Energy Supply	9,183	279	81,608	20,398	17,266	-2,850	-2,726	-	5,770
Transfers	-	-	-7,590	8,775	-	-45	-	-	-
Total Transformation Sector	-10,055	1,251	-70,765	54,301	18,746	2,892	2,759	-	18,562
Main Activity Producer	-8,070	-	-	-10,473	-	-	-	-	-501
Autoproducers	-36	-87	-	-1,371	-	-	-	-	-120
Gas Processing	-	-	-	-822	-	-	-	-	-
Petroleum Refineries	-	-	-70,990	67,206	18,746	3,131	2,759	-	19,183
Coal Transformation	-1,949	1,338	-	-	-	-	-	-	-
Other Transformation	-	-	225	-239	-	-239	-	-	-
Loss & Own Use	-	-59	-	-6,158	-	-	-	-	-794
Discrepancy	1,002	145	-3,253	-3,521	7	94	-33	-	-3,347
Total Final Energy Consumption	129	1,617	-	73,796	36,019	90	-	-	20,192
Industry Sector	129	1,617	-	5,912	-	-	-	-	1,659
Iron and Steel	-	1,617	-	206	-	-	-	-	34
Chemical & Petrochemical	-	-	-	304	-	-	-	-	103
Non-metallic Minerals	129	-	-	2,452	-	-	-	-	13
Other Industries	-	-	-	2,951	-	-	-	-	1,509
Transport Sector	-	-	-	52,297	36,019	-	-	-	15,478
Domestic Air Transport	-	-	-	9	9	-	-	-	-
Road	-	-	-	50,915	36,011	-	-	-	14,163
Rail	-	-	-	580	-	-	-	-	580
Inland Waterways	-	-	-	794	-	-	-	-	736
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	11,122	-	-	-	-	3,056
Residential	-	-	-	6,560	-	-	-	-	-
Commerce and Public Services	-	-	-	1,508	-	-	-	-	124
Agriculture	-	-	-	3,053	-	-	-	-	2,931
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	4,464	-	90	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	40,485	2,408	3,075	5,760	9,057	-	-	218,104
1,710	3,040	-	-	2,234	21,401	-	-	-	-	104	-	55,288
-5,198	-7	-	-	-537	-92	-	-	-	-	-107	-	-76,516
-97	-	-	-	-1	-	-	-	-	-	-	-	-812
-	-	-	-	-	-	-	-	-	-	-	-	-3,036
22	8	-	-	-47	-	-	-	-	-	-	-	607
-3,562	3,041	-	-	1,649	61,794	2,408	3,075	5,760	9,057	-3	-	193,635
-	6,062	-	2,671	-	-	-	-	-	-	-	-	1,204
4,399	86	4,172	-	2,870	-32,727	-2,408	-3,075	-5,589	-1,475	25,549	-	-43,855
-9,804	-	-	-	-	-26,568	-2,360	-3,075	-5,377	-	22,237	-	-32,338
-476	-14	-	-	-942	-6,681	-48	-	-212	-1,475	3,312	-	-6,917
-	-791	-	-	-	522	-	-	-	-	-	-	-269
14,679	890	4,172	-	3,812	-	-	-	-	-	-	-	-3,848
-	-	-	-	-	-	-	-	-	-	-	-	-473
-	-	-	-	-	-	-	-	-	-	-	-	-9
-1,393	-	-4,172	-	-89	-14,991	-	-	-	-	-4,949	-	-26,577
1,154	882	-	-	-559	-1,944	-	-	-0	-0	178	-	-6,225
597	10,071	-	2,671	3,871	12,131	-	-	171	7,581	20,775	-	118,181
595	1,059	-	-	2,547	10,603	-	-	8	1,481	11,824	-	34,724
69	-	-	-	59	2,478	-	-	-	-	516	-	4,727
93	20	-	-	130	1,764	-	-	-	-	531	-	2,698
89	3	-	-	2,297	1,139	-	-	-	-	963	-	4,646
344	1,035	-	-	61	5,222	-	-	8	1,481	9,814	-	22,654
2	1,272	-	-	-	19	-	-	-	-	97	-	51,125
-	-	-	-	-	-	-	-	-	-	-	-	9
-	1,272	-	-	-	19	-	-	-	-	-	-	49,691
-	-	-	-	-	-	-	-	-	-	97	-	733
2	-	-	-	-	-	-	-	-	-	-	-	692
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	7,716	-	-	-	965	-	-	163	6,101	8,854	-	26,692
-	6,044	-	-	-	727	-	-	97	6,101	4,504	-	17,505
-	1,530	-	-	-	239	-	-	65	-	1,978	-	3,918
-	142	-	-	-	-	-	-	-	-	884	-	3,782
-	-	-	-	-	-	-	-	-	-	1,487	-	1,487
-	25	-	2,671	1,323	545	-	-	-	-	-	-	5,640
-	-	-	-	-	40,357	2,740	2,285	5,475	8,423	-	-	218,999
2,443	3,295	-	-	2,484	18,615	-	-	-	-	54	-	55,918
-3,820	-	-	-	-537	-68	-	-	-	-	-151	-	-78,535
-99	-	-	-	-1	-	-	-	-	-	-1	-	-930
-	-	-	-	-	-	-	-	-	-	-	-	-2,901
-221	-2	-	-	-604	-	-	-	-	-	-	-	-3,351
-1,697	3,293	-	-	1,342	58,904	2,740	2,285	5,475	8,423	-97	-	189,200
-	5,993	-	2,834	-7	-	-	-	-	-	-	-	1,186
4,673	73	4,014	-	2,581	-25,708	-2,740	-2,285	-5,322	-1,312	25,272	-	-37,363
-9,973	-	-	-	-	-22,863	-2,693	-2,285	-5,153	-	22,506	-	-29,032
-326	-	-	-	-924	-3,415	-46	-	-169	-1,312	2,766	-	-3,670
-	-822	-	-	-	569	-	-	-	-	-	-	-253
14,972	896	4,014	-	3,505	-	-	-	-	-	-	-	-3,784
-	-	-	-	-	-	-	-	-	-	-	-	-611
-	-	-	-	-	-	-	-	-	-	-	-	-14
-1,292	-	-4,013	-	-59	-18,187	-	-	-	-	-5,377	-	-29,780
-495	461	-1	-	-205	-564	-	-	-0	-0	-35	-	-6,227
1,190	9,820	-	2,832	3,652	14,445	-	-	153	7,111	19,763	-	117,015
1,131	985	-	-	2,138	10,324	-	-	7	979	11,228	-	30,197
112	-	-	-	60	1,815	-	-	-	-	558	-	4,195
135	24	-	-	42	1,314	-	-	-	-	816	-	2,433
467	3	-	-	1,969	1,590	-	-	-	-	668	-	4,840
417	958	-	-	67	5,606	-	-	7	979	9,186	-	18,729
59	741	-	-	-	16	-	-	-	-	97	-	52,411
-	-	-	-	-	-	-	-	-	-	-	-	9
-	741	-	-	-	16	-	-	-	-	-	-	50,931
-	-	-	-	-	-	-	-	-	-	97	-	677
59	-	-	-	-	-	-	-	-	-	-	-	794
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	8,066	-	-	-	1,005	-	-	146	6,132	8,438	-	26,844
-	6,560	-	-	-	761	-	-	87	6,132	4,538	-	18,079
-	1,384	-	-	-	244	-	-	59	-	1,925	-	3,737
-	122	-	-	-	-	-	-	-	-	930	-	3,984
-	-	-	-	-	-	-	-	-	-	1,044	-	1,044
-	28	-	2,832	1,514	3,099	-	-	-	-	-	-	7,564

Major Energy Indicators of Mexico

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	122,501	144,907	168,751	175,375	176,684	183,937	189,200	193,635
Indigenous Production	194,661	222,122	249,877	219,404	222,198	222,817	218,999	218,104
Import	5,648	25,515	31,696	39,562	47,514	52,440	55,918	55,288
Export	-75,520	-97,157	-108,899	-80,627	-87,492	-84,856	-78,535	-76,516
Final Energy Consumption	84,321	98,289	105,312	110,226	113,619	116,125	117,015	118,181
Industry	26,552	27,920	27,001	25,961	27,572	29,240	30,197	34,724
Transport	28,530	36,158	44,463	50,474	51,846	52,055	52,411	51,125
Residential	15,750	18,094	17,686	17,691	17,844	18,021	18,079	17,505
Commerce & Public Services	1,481	3,429	3,424	3,561	3,574	3,735	3,737	3,918
Others	12,009	12,687	12,738	12,540	12,782	13,073	12,591	10,910
Coal, Coal Products								
Primary Energy Supply	3,467	7,106	10,141	8,858	9,504	10,066	9,462	12,682
Indigenous Production	3,387	5,415	5,159	5,314	6,324	7,789	7,529	7,260
Import	235	1,960	4,815	3,812	4,650	4,565	4,375	4,596
Export	-6	-4	-4	-4	-4	-6	-151	-4
Transformation Sector	-1,659	-5,379	-8,281	-7,733	-8,362	-8,925	-8,804	-7,405
Power Generation	-1,725	-4,734	-7,974	-7,159	-7,882	-8,270	-8,193	-6,931
Final Energy Consumption	1,759	1,495	1,400	1,207	1,783	1,772	1,746	5,173
Industry	1,735	1,495	1,400	1,207	1,783	1,772	1,746	5,035
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	23	-	-	-	-	-	-	138
Crude Oil								
Primary Energy Supply	82,017	77,858	90,543	87,430	78,261	78,669	81,608	82,760
Indigenous Production	152,754	170,926	193,670	156,255	154,956	153,330	152,190	150,059
Import	-	352	382	502	399	367	485	411
Export	-70,432	-92,500	-103,435	-69,778	-76,969	-75,525	-70,781	-67,272
Transformation Sector	-69,254	-66,021	-78,236	-76,056	-71,055	-70,648	-70,765	-74,701
Petroleum Refineries	-69,254	-66,021	-78,236	-76,056	-71,055	-70,862	-70,990	-74,852
Petroleum Products								
Primary Energy Supply	-1,753	11,884	9,650	11,139	16,382	18,891	20,398	16,103
Import	4,994	20,703	18,807	24,439	29,993	32,584	32,388	28,777
Export	-4,915	-4,431	-5,139	-10,151	-9,667	-9,014	-7,384	-9,042
Transformation Sector	50,097	40,962	54,042	59,951	56,407	54,653	54,301	57,977
Power Generation	-15,119	-22,978	-16,062	-10,608	-10,073	-11,190	-11,844	-12,076
Petroleum Refineries	65,215	65,086	71,200	71,419	67,297	66,839	67,206	71,004
Final Energy Consumption	51,210	61,663	68,880	72,502	73,858	73,944	73,796	72,350
Industry	7,445	7,479	7,286	6,183	5,842	5,900	5,912	5,773
Transport	28,461	36,058	44,353	50,365	51,732	51,945	52,297	51,009
Residential	6,573	7,635	6,881	6,450	6,585	6,515	6,560	6,076
Commerce & Public Services	540	1,732	1,535	1,453	1,506	1,502	1,508	1,635
Others	8,191	8,758	8,824	8,051	8,193	8,081	7,518	7,856
Natural Gas								
Primary Energy Supply	23,126	28,929	38,077	48,597	53,613	56,463	58,904	61,794
Indigenous Production	22,757	26,728	30,604	38,406	41,911	41,800	40,357	40,485
Import	370	2,408	7,684	10,779	12,438	14,872	18,615	21,401
Export	-	-207	-211	-588	-736	-209	-68	-92
Transformation Sector	-3,432	-7,830	-16,293	-23,121	-24,674	-26,397	-25,708	-32,727
Power Generation	-3,432	-8,683	-17,091	-23,734	-25,310	-27,064	-26,278	-33,249
Final Energy Consumption	14,164	12,952	11,102	11,805	12,746	13,650	14,445	12,131
Industry	10,827	9,007	7,939	8,247	9,016	9,896	10,324	10,603
Transport	-	6	16	13	12	13	16	19
Residential	810	520	735	690	737	716	761	727
Commerce & Public Services	-	170	174	206	229	221	244	239
Others	2,527	3,250	2,237	2,649	2,752	2,804	3,099	545
Electricity								
Power Generation	9,962	17,559	20,969	22,450	23,310	25,442	25,272	25,549
Thermal	7,247	12,729	15,888	17,478	17,795	19,663	19,639	19,749
Hydro	2,019	2,849	2,379	2,297	3,192	3,119	2,740	2,408
Nuclear	255	714	939	912	511	876	762	1,025
Others	441	1,266	1,764	1,762	1,812	1,784	2,132	2,366
Final Energy Consumption	8,617	13,950	16,095	17,297	17,883	19,429	19,763	20,775
Industry	4,592	8,559	8,985	9,288	9,901	10,671	11,228	11,824
Transport	69	95	94	96	102	96	97	97
Residential	1,754	3,107	3,658	4,232	4,249	4,515	4,538	4,504
Commerce & Public Services	935	1,511	1,682	1,841	1,794	1,959	1,925	1,978
Others	1,267	679	1,677	1,839	1,837	2,188	1,974	2,371

Major Economic Indicators of Mexico

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	85.61	102.81	109.75	116.82	118.62	120.37	122.07	123.74
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	619.52	880.87	955.48	1,000.02	1,051.13	1,093.64	1,137.47	1,153.29
Real Term (Billions of 2010 Price and 2010 PPP)	1,020.67	1,451.25	1,574.18	1,647.56	1,731.75	1,801.79	1,874.00	1,900.06
Nominal (Billions of Current USD)	262.71	683.65	866.35	894.95	1,051.13	1,171.19	1,186.66	1,262.25
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	7,237	8,568	8,706	8,561	8,861	9,086	9,318	9,320
Real Term (2010 Price and 2010 PPP)	11,922	14,116	14,344	14,104	14,599	14,969	15,352	15,355
Nominal (Current USD)	3,069	6,650	7,894	7,661	8,861	9,730	9,721	10,201
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	738.90	6,464.30	9,441.35	12,093.89	13,282.06	14,550.01	15,627.71	16,121.44
Household Final Consumption Expenditure	514.12	4,577.72	6,385.90	8,063.91	8,899.92	9,642.53	10,510.05	11,052.72
General Government Final Consumption Expenditure	61.95	727.23	1,009.65	1,449.59	1,548.45	1,683.83	1,849.07	1,962.75
Gross Fixed Capital Formation	132.11	1,351.16	2,006.91	2,724.72	2,806.75	3,163.35	3,489.18	3,401.27
Stock Change	38.88	103.66	95.78	45.61	122.74	75.49	112.99	90.65
Exports of Goods and Services	137.44	1,698.61	2,508.35	3,299.27	3,967.57	4,548.97	5,100.57	5,116.96
Imports of Goods and Services	145.60	1,735.95	2,644.40	3,477.52	4,127.39	4,730.53	5,276.17	5,260.55
Real GDP & its Components (Billions of 2008 MXN) *1								
Gross Domestic Product	7,236.29	10,288.98	11,160.49	11,680.75	12,277.66	12,774.24	13,286.15	13,470.94
Household Final Consumption Expenditure	4,093.61	6,420.90	7,400.76	7,669.33	8,103.92	8,493.19	8,911.85	9,106.08
General Government Final Consumption Expenditure	940.89	1,216.68	1,222.01	1,363.80	1,387.13	1,421.09	1,470.57	1,490.53
Gross Fixed Capital Formation	1,270.44	2,053.82	2,340.99	2,568.10	2,600.82	2,804.15	2,938.19	2,892.27
Stock Change	77.71	156.51	107.80	27.78	112.44	56.15	89.99	74.46
Exports of Goods and Services	764.30	2,706.75	3,106.03	3,016.58	3,636.38	3,935.14	4,164.92	4,257.79
Imports of Goods and Services	725.56	2,456.03	3,034.70	3,047.83	3,671.45	3,966.99	4,183.84	4,288.65
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.0	3.3	3.2	3.3	3.1	3.0	3.1	3.0
Industry	37.6	37.8	37.1	35.0	34.9	34.7	34.3	33.6
Services, etc.	55.7	56.3	57.1	59.1	59.4	59.8	60.1	60.8
Industrial Production Index (2010=100) *2	64.6	91.1	97.0	95.9	100.0	103.1	106.0	105.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	40.711	166.367	214.207	229.712	298.305	349.569	370.643	379.961
Imports, c.i.f.	43.548	179.464	228.240	241.515	310.205	361.068	380.477	390.965
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.433	-8.365	-7.663	-4.926	-2.943	-1.205	0.291	-0.909
Current Account	-7.451	-18.777	-8.971	-8.335	-5.036	-13.319	-15.877	-30.446
Overall Balance	0.990	6.516	6.102	8.201	43.264	38.758	35.427	35.145
Foreign Exchange Rate (MXN/USD) *1	2.813	9.456	10.898	13.513	12.636	12.423	13.169	12.772
PPP conversion factor, GDP (MXN/International Dollar) *1	1.434	6.094	7.127	7.432	7.670	7.673	7.929	8.042
Price Indices								
GDP Deflator (2008=100) *3	10.2	62.8	84.6	103.5	108.2	113.9	117.6	119.7
Producer Prices (2010=100) *2	11.9	57.7	77.8	96.0	100.0	105.2	110.1	111.6
Consumer Price Index (2010=100) *2	11.8	63.3	80.5	96.0	100.0	103.4	107.7	111.8
Growth Rate (%)								
Real GDP *3	5.07	5.30	3.03	-4.70	5.11	4.04	4.01	1.39
Population *3	2.04	1.52	1.38	1.60	1.54	1.47	1.42	1.37
Price *2								
Producer Prices	21.68	7.84	4.71	4.46	4.21	5.22	4.63	1.37
Consumer Price Index	26.65	9.49	3.99	5.30	4.16	3.41	4.11	3.81

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

Energy Price of Mexico in 2013

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	12.77
Local Currency Unit	MXN	

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		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		LPG	MXN/ton	LPG	MXN/kg
Naphtha		Naphtha		Naphtha	
Motor Gasoline		Motor Gasoline		Motor Gasoline	MXN/liter
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		Other Kerosene	
Gas/Diesel Oil		Gas/Diesel Oil	MXN/liter	Gas/Diesel Oil	MXN/liter
Fuel Oil		Fuel Oil	MXN/ton	Fuel Oil	MXN/liter
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	MXN/GJ	Natural Gas	MXN/GJ
Liquefied Natural Gas		Liquefied Natural Gas		Liquefied Natural Gas	
Compressed Natural Gas		Compressed Natural Gas		Compressed Natural Gas	
Electricity		Electricity		Electricity	
Electricity		Electricity		Industrial	cents / kWh
				Commercial	cents / kWh
				Residential	cents / kWh
				Others	cents / kWh
Other Energy Products		Other Energy Products		Other Energy Products	
Charcoal					

3.12 New Zealand

Energy Balance Table of New Zealand

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	2,740	-	1,855	-	-	-	-	-	-
Import	267	-	5,481	2,168	1,202	-	75	-	664
Export	-1,503	-	-1,527	-268	-	-	-	-	-
International Marine Bunkers	-1	-	-	-304	-	-	-	-	-47
International Aviation Bunkers	-	-	-	-867	-	-	-867	-	-
Stock Changes	56	-	-67	-85	-27	-	19	-	-7
Total Primary Energy Supply	1,558	-	5,742	645	1,175	-	-773	-	611
Transfers	-	-	-193	202	2	-	-4	3	-1
Total Transformation Sector	-841	96	-5,540	5,571	1,427	-	1,019	-	2,087
Main Activity Producer	-399	-	-	-1	-	-	-	-	-1
Autoproducers	-6	-178	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,543	5,572	1,427	-	1,019	-	2,088
Coal Transformation	-436	274	-	-	-	-	-	-	-
Other Transformation	-	-	3	-	-	-	-	-	-
Loss & Own Use	-4	-56	-	-353	-	-	-	-	-
Discrepancy	-133	0	-9	-134	-181	-	3	-	17
Total Final Energy Consumption	580	40	-	5,930	2,423	-	246	3	2,714
Industry Sector	468	40	-	420	2	-	-	3	345
Iron and Steel	-	40	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	107	-	-	-	-	-	-	-	-
Other Industries	361	-	-	420	2	-	-	3	345
Transport Sector	-	-	-	4,578	2,381	-	246	-	1,889
Domestic Air Transport	-	-	-	256	11	-	246	-	-
Road	-	-	-	4,158	2,371	-	-	-	1,781
Rail	-	-	-	47	-	-	-	-	47
Inland Waterways	-	-	-	117	-	-	-	-	62
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	113	-	-	611	39	-	-	-	479
Residential	7	-	-	74	-	-	-	-	10
Commerce and Public Services	33	-	-	115	5	-	-	-	82
Agriculture	72	-	-	338	31	-	-	-	306
Non-specified Others	-	-	-	84	3	-	-	-	80
Non-energy	-	-	-	321	-	-	-	-	-
2012									
Indigenous Production	2,879	-	2,121	-	-	-	-	-	-
Import	83	-	5,618	1,858	1,184	-	16	-	474
Export	-1,583	-	-1,838	-304	-	-	-	-	-
International Marine Bunkers	-	-	-	-304	-1	-	-	-	-46
International Aviation Bunkers	-	-	-	-824	-	-	-824	-	-
Stock Changes	338	-	147	9	-7	-	-17	-	14
Total Primary Energy Supply	1,718	-	6,048	434	1,175	-	-825	-	443
Transfers	-	-	-181	189	1	-	-3	2	-4
Total Transformation Sector	-1,088	88	-5,794	5,815	1,445	-	1,117	-	2,176
Main Activity Producer	-664	-	-	-1	-	-	-	-	-1
Autoproducers	-6	-172	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,799	5,816	1,445	-	1,117	-	2,177
Coal Transformation	-417	260	-	-	-	-	-	-	-
Other Transformation	-	-	6	-	-	-	-	-	-
Loss & Own Use	-	-50	-	-365	-	-	-	-	-
Discrepancy	-100	0	-73	-232	-194	-	-12	-	0
Total Final Energy Consumption	531	38	-	5,840	2,427	-	277	2	2,615
Industry Sector	406	38	-	364	2	-	-	2	294
Iron and Steel	-	38	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	51	-	-	-	-	-	-	-	-
Other Industries	355	-	-	364	2	-	-	2	294
Transport Sector	-	-	-	4,533	2,388	-	277	-	1,826
Domestic Air Transport	-	-	-	289	12	-	277	-	-
Road	-	-	-	4,103	2,376	-	-	-	1,718
Rail	-	-	-	48	-	-	-	-	48
Inland Waterways	-	-	-	94	-	-	-	-	61
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	125	-	-	627	37	-	-	-	495
Residential	10	-	-	73	-	-	-	-	6
Commerce and Public Services	32	-	-	121	4	-	-	-	90
Agriculture	83	-	-	336	33	-	-	-	302
Non-specified Others	-	-	-	97	-	-	-	-	97
Non-energy	-	-	-	315	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	4,023	1,982	-	4,118	1,152	-	-	15,870
-	2	-	-	225	-	-	-	-	1	-	-	7,917
-229	-39	-	-	-	-	-	-	-	-	-	-	-3,298
-257	-	-	-	-	-	-	-	-	-	-	-	-305
-	-	-	-	-	-	-	-	-	-	-	-	-867
-42	2	-	-	-31	-44	-	-	-	-	-	-	-139
-528	-34	-	-	194	3,980	1,982	-	4,118	1,153	-	-	19,178
-	202	-	-	-0	-	-	-	-	-	-	-	8
563	-	334	-	141	-1,529	-1,982	-	-3,853	-160	3,720	20	-4,497
-	-	-	-	-	-1,492	-1,981	-	-3,819	-39	3,599	-	-4,132
-	-	-	-	-	-37	-1	-	-33	-117	121	20	-231
-	-	-	-	-	-	-	-	-	-	-	-	-
563	-	334	-	141	-	-	-	-	-	-	-	29
-	-	-	-	-	-0	-	-	-	-	-	-	-163
-	-	-	-	-	-	-	-	-	-3	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-334	-	-19	-204	-	-	-	-	-443	-	-1,060
23	-1	-	-	5	-86	-	-	-0	-0	-18	-20	-400
58	166	-	-	321	2,160	-	-	266	993	3,258	-	13,228
3	67	-	-	-	988	-	-	171	849	1,158	-	4,095
-	-	-	-	-	60	-	-	-	-	87	-	186
-	-	-	-	-	528	-	-	-	-	36	-	564
-	-	-	-	-	15	-	-	-	-	30	-	152
3	67	-	-	-	386	-	-	171	849	1,006	-	3,194
55	7	-	-	-	1	-	-	-	-	5	-	4,584
-	-	-	-	-	-	-	-	-	-	-	-	256
-	7	-	-	-	1	-	-	-	-	-	-	4,159
-	-	-	-	-	-	-	-	-	-	-	-	47
55	-	-	-	-	-	-	-	-	-	-	-	117
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	5	-	5
-	92	-	-	-	319	-	-	94	144	2,095	-	3,375
-	64	-	-	-	122	-	-	16	138	1,060	-	1,416
-	27	-	-	-	165	-	-	62	5	810	-	1,190
-	1	-	-	-	32	-	-	17	-	199	-	658
-	-	-	-	-	-	-	-	-	-	26	-	110
-	-	-	-	321	853	-	-	-	-	-	-	1,174
-	-	-	-	-	3,798	1,969	-	3,976	1,199	-	-	15,943
-	16	-	-	168	-	-	-	-	2	-	-	7,561
-275	-30	-	-	-	-	-	-	-	-	-	-	-3,725
-257	-	-	-	-	-	-	-	-	-	-	-	-304
-	-	-	-	-	-	-	-	-	-	-	-	-824
19	-3	-	-	3	41	-	-	-	-	-	-	536
-513	-17	-	-	171	3,839	1,969	-	3,976	1,201	-	-	19,186
-	189	-	-	4	-	-	-	-	-	-	-	7
572	-	331	-	173	-1,530	-1,969	-	-3,730	-161	3,806	22	-4,541
-	-	-	-	-	-1,493	-1,968	-	-3,697	-40	3,688	-	-4,175
-	-	-	-	-	-37	-1	-	-33	-115	118	22	-225
-	-	-	-	-	-	-	-	-	-	-	-	-
572	-	331	-	173	-	-	-	-	-	-	-	16
-	-	-	-	-	-0	-	-	-	-	-	-	-158
-	-	-	-	-	-	-	-	-	-6	-	-	-0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-331	-	-34	-213	-	-	-	-	-434	-22	-1,084
-26	-1	-	-	1	-168	0	-	0	-0	-59	-	-631
33	171	-	-	315	1,928	-	-	247	1,040	3,313	-	12,937
-	66	-	-	-	907	-	-	159	899	1,199	-	3,973
-	-	-	-	-	63	-	-	-	-	72	-	172
-	-	-	-	-	429	-	-	-	-	35	-	464
-	-	-	-	-	15	-	-	-	-	30	-	96
-	66	-	-	-	400	-	-	159	899	1,063	-	3,240
33	9	-	-	-	1	-	-	-	-	5	-	4,540
-	-	-	-	-	-	-	-	-	-	-	-	289
-	9	-	-	-	1	-	-	-	-	-	-	4,104
-	-	-	-	-	-	-	-	-	-	-	-	48
33	-	-	-	-	-	-	-	-	-	-	-	94
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	5	-	5
-	96	-	-	-	338	-	-	88	141	2,108	-	3,428
-	67	-	-	-	135	-	-	15	136	1,074	-	1,444
-	27	-	-	-	170	-	-	54	5	806	-	1,188
-	1	-	-	-	34	-	-	19	-	185	-	656
-	-	-	-	-	-	-	-	-	-	43	-	139
-	-	-	-	315	682	-	-	-	-	-	-	997

Major Energy Indicators of New Zealand

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	12,707	16,967	16,931	17,548	18,300	18,213	19,186	19,178
Indigenous Production	11,400	14,168	12,863	15,327	16,803	16,019	15,943	15,870
Import	3,812	5,942	7,404	7,520	7,199	7,418	7,561	7,917
Export	-1,696	-2,590	-2,485	-4,058	-4,284	-3,975	-3,725	-3,298
Final Energy Consumption	9,716	12,938	12,533	12,512	12,877	12,719	12,937	13,228
Industry	3,599	4,261	4,081	3,740	4,037	3,970	3,973	4,095
Transport	2,957	4,063	4,540	4,572	4,566	4,576	4,540	4,584
Residential	1,209	1,356	1,433	1,478	1,460	1,447	1,444	1,416
Commerce & Public Services	800	932	1,129	1,121	1,147	1,115	1,188	1,190
Others	1,152	2,326	1,350	1,601	1,666	1,610	1,793	1,942
Coal, Coal Products								
Primary Energy Supply	1,185	1,107	2,194	1,474	1,312	1,436	1,718	1,558
Indigenous Production	1,423	2,074	3,164	2,654	3,137	2,894	2,879	2,740
Import	1	11	562	356	133	91	83	267
Export	-239	-1,116	-1,667	-1,478	-1,708	-1,535	-1,583	-1,503
Transformation Sector	-313	-487	-1,533	-925	-641	-710	-999	-745
Power Generation	-170	-384	-1,406	-794	-502	-538	-842	-583
Final Energy Consumption	675	516	575	548	604	556	569	620
Industry	542	434	483	480	515	446	444	508
Transport	2	2	2	0	1	1	-	-
Residential	87	25	20	19	12	17	10	7
Commerce & Public Services	35	43	43	29	33	29	32	33
Others	9	13	27	19	43	62	83	72
Crude Oil								
Primary Energy Supply	4,373	5,430	5,215	5,240	5,478	5,662	6,048	5,742
Indigenous Production	1,966	1,944	1,084	2,771	2,745	2,382	2,121	1,855
Import	3,293	4,724	4,829	4,895	5,233	5,370	5,618	5,481
Export	-965	-1,263	-636	-2,370	-2,453	-2,144	-1,838	-1,527
Transformation Sector	-4,237	-5,204	-5,170	-5,218	-5,360	-5,558	-5,794	-5,540
Petroleum Refineries	-4,879	-5,204	-5,170	-5,221	-5,364	-5,564	-5,799	-5,543
Petroleum Products								
Primary Energy Supply	-863	277	906	1,018	715	442	434	645
Import	519	1,208	2,013	2,269	1,832	1,955	1,858	2,168
Export	-492	-211	-183	-210	-122	-296	-304	-268
Transformation Sector	4,969	5,266	5,425	5,253	5,372	5,605	5,815	5,571
Power Generation	-6	-	-1	-2	-	-	-1	-1
Petroleum Refineries	4,975	5,266	5,426	5,255	5,372	5,605	5,816	5,572
Final Energy Consumption	4,026	5,306	5,963	5,862	5,904	5,880	5,840	5,930
Industry	285	337	426	392	346	331	364	420
Transport	2,894	4,056	4,532	4,565	4,559	4,569	4,533	4,578
Residential	12	49	67	63	69	72	73	74
Commerce & Public Services	168	119	150	97	128	141	121	115
Others	667	745	788	745	802	768	748	743
Natural Gas								
Primary Energy Supply	3,872	5,059	3,228	3,507	3,728	3,411	3,839	3,980
Indigenous Production	3,872	5,056	3,228	3,595	3,855	3,481	3,798	4,023
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-1,991	-1,898	-1,725	-1,532	-1,763	-1,510	-1,530	-1,529
Power Generation	-1,240	-1,898	-1,724	-1,531	-1,762	-1,510	-1,530	-1,529
Final Energy Consumption	1,798	3,012	1,333	1,668	1,734	1,702	1,928	2,160
Industry	1,228	1,339	704	784	877	897	907	988
Transport	57	0	0	1	1	1	1	1
Residential	75	156	141	137	129	123	135	122
Commerce & Public Services	94	136	166	157	148	119	170	165
Others	343	1,381	322	589	580	561	716	885
Electricity								
Power Generation	2,775	3,375	3,695	3,737	3,859	3,824	3,806	3,720
Thermal	566	1,000	1,390	1,189	1,213	1,102	1,266	1,162
Hydro	1,994	2,101	2,006	2,083	2,126	2,160	1,969	1,982
Nuclear	-	-	-	-	-	-	-	-
Others	215	274	299	465	521	562	571	576
Final Energy Consumption	2,427	2,947	3,270	3,279	3,367	3,320	3,313	3,258
Industry	963	1,206	1,316	1,170	1,266	1,265	1,199	1,158
Transport	5	6	5	5	5	5	5	5
Residential	877	968	1,044	1,101	1,094	1,081	1,074	1,060
Commerce & Public Services	458	589	703	773	778	767	806	810
Others	125	178	200	230	224	202	227	225

Major Economic Indicators of New Zealand

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	3.33	3.86	4.13	4.30	4.35	4.38	4.41	4.44
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	83.93	113.19	137.93	143.22	145.28	148.51	151.74	155.50
Real Term (Billions of 2010 Price and 2010 PPP)	77.99	105.17	128.16	133.08	134.99	137.99	140.99	144.48
Nominal (Billions of Current USD)	45.42	54.44	115.06	120.47	145.28	166.14	174.45	188.38
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	25,206	29,341	33,366	33,287	33,393	33,875	34,423	35,005
Real Term (2010 Price and 2010 PPP)	23,421	27,263	31,003	30,929	31,028	31,476	31,985	32,526
Nominal (Current USD)	13,639	14,113	27,834	27,999	33,393	37,897	39,574	42,409
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	76.127	119.839	163.422	192.855	201.630	210.300	215.315	229.718
Household Final Consumption Expenditure	45.843	69.483	95.276	111.668	116.148	122.111	125.975	130.338
General Government Final Consumption Expenditure	14.043	20.386	29.087	38.249	39.864	41.393	41.725	43.428
Gross Fixed Capital Formation	15.738	24.987	40.320	39.278	40.088	42.216	45.510	50.556
Stock Change	-0.154	1.419	1.100	-0.851	0.862	1.283	0.624	1.683
Exports of Goods and Services	20.373	42.837	46.087	55.832	61.559	64.749	62.762	67.175
Imports of Goods and Services	19.676	39.273	48.447	51.320	56.891	61.451	61.235	63.226
Real GDP & its Components (Billions of 2005 NZD) *1								
Gross Domestic Product	99.441	134.109	163.422	169.687	172.133	175.952	179.784	184.233
Household Final Consumption Expenditure	57.341	75.070	95.276	101.070	103.137	105.960	108.631	111.750
General Government Final Consumption Expenditure	20.399	23.424	29.087	32.817	33.450	33.971	33.775	34.692
Gross Fixed Capital Formation	18.090	26.404	40.320	35.770	36.937	38.964	41.768	46.105
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	22.301	39.343	46.087	50.146	51.561	52.741	54.342	54.499
Imports of Goods and Services	19.550	32.166	48.447	46.225	51.539	54.930	55.643	60.088
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	5.3	5.0	4.5	4.2	3.9	4.4	4.4	4.2
Industry	27.1	24.5	24.0	22.4	22.0	21.3	21.6	21.8
Services, etc.	61.1	63.9	64.3	66.0	66.7	67.0	66.7	66.7
Manufacturing Production Index (2010=100) *2	57.5	91.0	102.8	96.5	100.0	97.6	97.6	98.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	9.394	13.272	21.730	24.933	31.396	37.669	37.305	39.445
Imports, c.i.f.	9.501	13.906	26.219	25.574	30.617	37.105	38.254	39.641
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	0.560	-3.043	0.956	2.003	2.214	0.054	1.055
Current Account	N.A.	-1.977	-8.025	-3.009	-3.434	-4.807	-6.916	-5.931
Overall Balance	N.A.	-0.462	3.342	2.986	2.896	5.756	-2.084	-8.587
Foreign Exchange Rate (NZD/USD) *1	1.676	2.201	1.420	1.601	1.388	1.266	1.234	1.219
PPP conversion factor, GDP (NZD/International Dollar) *1	1.542	1.440	1.535	1.470	1.494	1.486	1.481	1.468
Price Indices								
GDP Deflator (2005=100) *3	76.6	89.4	100.0	113.7	117.1	119.5	119.8	124.7
Industry Input Prices (2010=100) *2	60.6	73.6	82.4	96.3	100.0	104.0	104.4	106.8
Consumer Price Index (2010=100) *2	64.7	77.6	87.0	97.7	100.0	104.4	105.4	106.7
Growth Rate (%) *3								
Real GDP	0.14	2.76	3.41	-0.25	1.44	2.22	2.18	2.47
Population	0.93	0.59	1.14	1.00	1.12	0.77	0.55	0.77
Price								
Industry Input Prices	4.64	8.30	5.37	-2.44	3.86	3.96	0.43	2.28
Consumer Price Index	6.10	3.01	3.04	2.12	2.30	4.43	0.88	1.30

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

3.13 Papua New Guinea

Energy Balance Table of Papua New Guinea

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	-	-	819	-	-	-	-	-	-
Import	-	-	1,274	1,064	94	-	46	-	605
Export	-	-	-802	-418	-	-380	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	62	-15	-7	-6	-	-5	3
Total Primary Energy Supply	-	-	1,354	631	86	-386	46	-5	608
Transfers	-	-	-	3	-	-	70	-68	-
Total Transformation Sector	-	-	-1,337	640	29	399	-	117	333
Main Activity Producer	-	-	-	-102	-	-	-	-	-
Autoproducers	-	-	-	-563	-	-	-	-	-206
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-1,337	1,305	29	399	-	117	539
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-	-	-17	-2	0	-0	0	-0	-0
Total Final Energy Consumption	-	-	-	1,272	115	12	116	44	941
Industry Sector	-	-	-	559	-	12	-	-	513
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	559	-	12	-	-	513
Transport Sector	-	-	-	545	115	-	116	-	306
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	545	115	-	116	-	306
Other Sector	-	-	-	168	-	-	-	44	122
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	168	-	-	-	44	122
Non-energy	-	-	-	-	-	-	-	-	-
2012									
Indigenous Production	-	-	756	-	-	-	-	-	-
Import	-	-	1,111	517	30	-	-	27	152
Export	-	-	-755	-17	-	-	-17	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	-44	35	5	25	2	-	-8
Total Primary Energy Supply	-	-	1,069	535	35	25	-15	27	144
Transfers	-	-	-	-4	62	-289	-	-	223
Total Transformation Sector	-	-	-1,063	537	14	272	125	16	372
Main Activity Producer	-	-	-	-76	-	-	-	-	-
Autoproducers	-	-	-	-455	-	-	-	-	-103
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-1,063	1,068	14	272	125	16	475
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-	-	-6	2	0	0	-0	0	-0
Total Final Energy Consumption	-	-	-	1,070	111	9	111	43	739
Industry Sector	-	-	-	396	-	9	-	-	361
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	396	-	9	-	-	361
Transport Sector	-	-	-	507	111	-	111	-	278
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	507	111	-	111	-	278
Other Sector	-	-	-	167	-	-	-	43	100
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	167	-	-	-	43	100
Non-energy	-	-	-	-	-	-	-	-	-

Note: Above Energy Balances Tables were estimated by CA.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	127	86	-	363	-	-	-	1,394
309	10	-	-	-	-	-	-	-	-	-	-	2,338
-	-	-	-	-37	-	-	-	-	-	-	-	-1,219
-	-	-	-	-	-	-	-	-	-	-	-	-
2	-1	-	-	-	-	-	-	-	-	-	-	47
311	9	-	-	-37	127	86	-	363	-	-	-	2,560
-	-	-	-	-	-	-	-	-	-	-	-	3
-288	13	-	-	37	-123	-86	-	-363	-	359	-	-910
-102	-	-	-	-	-	-55	-	-	-	84	-	-72
-358	-	-	-	-	-123	-31	-	-363	-	275	-	-806
-	-	-	-	-	-	-	-	-	-	-	-	-
171	13	-	-	37	-	-	-	-	-	-	-	-32
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-3	-	-	-	-	-23	-	-26
0	-0	-	-	-	-0	-	-	-	-	0	-	-18
24	21	-	-	-	-	-	-	-	-	335	-	1,608
16	18	-	-	-	-	-	-	-	-	254	-	813
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
16	18	-	-	-	-	-	-	-	-	254	-	813
8	-	-	-	-	-	-	-	-	-	-	-	545
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	545
-	3	-	-	-	-	-	-	-	-	81	-	249
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	3	-	-	-	-	-	-	-	-	81	-	249
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	127	85	-	363	-	-	-	1,330
306	2	-	-	-	-	-	-	-	-	-	-	1,628
-	-	-	-	-	-	-	-	-	-	-	-	-772
-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-9
317	2	-	-	-	127	85	-	363	-	-	-	2,178
-	-	-	-	-	-	-	-	-	-	-	-	-4
-295	11	-	-	20	-120	-85	-	-363	-	324	-	-770
-76	-	-	-	-	-	-54	-	-	-	77	-	-53
-352	-	-	-	-	-120	-30	-	-363	-	247	-	-722
-	-	-	-	-	-	-	-	-	-	-	-	-
134	11	-	-	20	-	-	-	-	-	-	-	5
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	-	-	-	-6	-	-	-	-	-37	-	-44
-	-	-	-	-	-0	-	-	-	-	1	-	-4
22	14	-	-	20	-	-	-	-	-	287	-	1,357
15	11	-	-	-	-	-	-	-	-	207	-	603
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
15	11	-	-	-	-	-	-	-	-	207	-	603
7	-	-	-	-	-	-	-	-	-	-	-	507
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	507
-	3	-	-	20	-	-	-	-	-	80	-	247
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	3	-	-	20	-	-	-	-	-	80	-	247
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Papua New Guinea

ktoe

	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	866	1,123	1,797	2,056	1,249	1,282	2,178	2,560
Indigenous Production	4,612	3,866	2,775	2,592	1,458	1,464	1,330	1,394
Import	797	908	1,810	1,385	725	701	1,628	2,338
Export	-4,512	-3,651	-2,785	-1,943	-886	-886	-772	-1,219
Final Energy Consumption	613	880	1,134	1,194	1,249	1,292	1,357	1,608
Industry	190	480	567	566	591	590	603	813
Transport	209	306	347	402	429	465	507	545
Residential	35	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	179	94	220	227	229	237	247	249
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	901	135	135	1,069	1,354
Indigenous Production	4,500	3,651	2,462	2,022	890	890	756	819
Import	-	-	917	753	135	133	1,111	1,274
Export	-4,500	-3,651	-2,344	-1,943	-886	-886	-755	-802
Transformation Sector	-	-	-993	-825	-131	-131	-1,063	-1,337
Petroleum Refineries	-	-	-993	-825	-131	-131	-1,063	-1,337
Petroleum Products								
Primary Energy Supply	753	908	449	585	546	573	535	631
Import	796	908	893	632	590	568	517	1,064
Export	-12	-	-441	-	-	-	-17	-418
Transformation Sector	-	-	431	365	427	439	537	640
Power Generation	-345	-222	-569	-476	-516	-516	-531	-665
Petroleum Refineries	-	-	1,000	841	943	956	1,068	1,305
Final Energy Consumption	398	686	859	925	969	1,009	1,070	1,272
Industry	87	338	372	369	385	385	396	559
Transport	209	306	347	402	429	465	507	545
Residential	24	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	78	42	139	154	154	160	167	168
Natural Gas								
Primary Energy Supply	72	119	125	126	123	128	127	127
Indigenous Production	72	119	125	126	123	128	127	127
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-120	-118	-118	-123	-120	-123
Power Generation	-	-119	-120	-118	-118	-123	-120	-123
Final Energy Consumption	72	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	72	-	-	-	-	-	-	-
Electricity								
Power Generation	154	204	296	300	312	315	324	359
Thermal	114	108	210	182	194	196	203	237
Hydro	40	80	74	81	82	83	85	86
Nuclear	-	-	-	-	-	-	-	-
Others	-	16	11	36	36	36	36	36
Final Energy Consumption	142	194	262	265	276	279	287	335
Industry	103	142	195	193	201	201	207	254
Transport	-	-	-	-	-	-	-	-
Residential	11	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	28	52	67	72	75	78	80	81

Major Economic Indicators of Papua New Guinea

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	4.16	5.37	6.09	6.69	6.85	7.00	7.15	7.31
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	4.38	6.54	7.28	9.02	9.72	10.75	11.62	12.27
Real Term (Billions of 2010 Price and 2010 PPP)	6.55	9.78	10.88	13.50	14.54	16.09	17.39	18.35
Nominal (Billions of Current USD)	3.22	3.50	4.87	8.11	9.72	12.87	15.39	15.41
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	1,052	1,216	1,195	1,348	1,419	1,536	1,624	1,678
Real Term (2010 Price and 2010 PPP)	1,574	1,820	1,788	2,017	2,123	2,298	2,430	2,511
Nominal (Current USD)	775	651	799	1,211	1,419	1,839	2,151	2,109
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	3.076	9.736	15.094	22.331	26.421	30.522	32.070	34.595
Household Final Consumption Expenditure	1.816	4.343	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	0.764	1.613	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	0.773	1.988	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	-0.021	0.144	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	1.250	6.443	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	1.506	4.794	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Real GDP & its Components (Billions of 1998 PGK) *1								
Gross Domestic Product	5.187	7.750	8.625	10.698	11.519	12.748	13.779	14.542
Household Final Consumption Expenditure	3.063	3.295	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	1.096	1.449	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	1.331	1.784	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	-0.036	0.129	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	2.543	5.230	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	2.901	4.137	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	39.1	39.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industry	22.5	31.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Services, etc.	40.1	23.8	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.	1.177	2.096	3.273	4.394	5.742	6.908	6.328	5.951
Imports, c.i.f.	1.193	1.151	1.729	3.210	3.950	4.760	5.330	6.080
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.069	1.095	1.792	1.521	2.216	2.675	1.566	N.A.
Current Account	-0.076	0.345	0.539	-0.852	-0.914	-0.702	-2.834	N.A.
Overall Balance	0.139	0.091	-0.034	0.331	0.161	-0.037	-0.582	N.A.
Foreign Exchange Rate (PGK/USD) *1	0.955	2.782	3.102	2.755	2.719	2.371	2.084	2.245
PPP conversion factor, GDP (PGK/International Dollar) *1	0.712	1.231	1.526	1.674	1.818	1.859	1.775	1.788
Price Indices								
GDP Deflator (1998=100) *3	59.3	125.6	175.0	208.7	229.4	239.4	232.7	237.9
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	52.9	77.1	94.3	100.0	104.4	109.2	114.6
Growth Rate (%) *3								
Real GDP	-3.01	-2.49	6.34	6.14	7.67	10.67	8.09	5.54
Population	2.48	2.62	2.47	2.35	2.30	2.24	2.20	2.15
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	15.60	1.78	6.92	6.01	4.44	4.54	4.96

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

3.14 Peru

Energy Balance Table of Peru

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	137	-	7,354	-	-	-	-	-	-
Import	726	24	4,573	3,114	409	-	140	-	2,400
Export	-89	-24	-741	-4,010	-1,905	-	-596	-	-54
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	82	24	-263	325	16	-	516	-	-380
Total Primary Energy Supply	856	24	10,923	-571	-1,480	-	60	-	1,966
Transfers	-	-	-1,644	2,037	1,057	-	-56	56	-777
Total Transformation Sector	-329	-	-9,294	8,781	1,939	-	719	-	3,736
Main Activity Producer	-192	-	-	-167	-	-	-	-	-53
Autoproducers	-137	-	-	-206	-	-	-	-	-90
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-9,351	9,154	1,939	-	719	-	3,879
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	56	-	-	-	-	-	-
Loss & Own Use	-	-	-	-257	-16	-	-	-	-13
Discrepancy	21	-0	16	158	34	-	27	-	79
Total Final Energy Consumption	549	24	-	10,149	1,534	-	750	56	4,991
Industry Sector	548	24	-	1,314	20	-	-	-	736
Iron and Steel	69	24	-	409	2	-	-	-	368
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	479	-	-	905	18	-	-	-	368
Transport Sector	-	-	-	6,751	1,307	-	750	-	4,063
Domestic Air Transport	-	-	-	750	-	-	750	-	-
Road	-	-	-	5,773	1,307	-	-	-	4,063
Rail	-	-	-	228	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	0	-	-	1,380	207	-	-	56	192
Residential	-	-	-	789	-	-	-	-	-
Commerce and Public Services	0	-	-	403	186	-	-	56	80
Agriculture	-	-	-	44	20	-	-	-	24
Non-specified Others	-	-	-	144	1	-	-	-	88
Non-energy	-	-	-	704	-	-	-	-	-
2012									
Indigenous Production	148	-	6,900	-	-	-	-	-	-
Import	455	1	4,843	2,750	185	-	74	-	1,677
Export	-89	-27	-813	-4,352	-1,874	-	-553	-	-22
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	333	25	52	1,155	248	-	515	-	-10
Total Primary Energy Supply	847	-1	10,981	-447	-1,440	-	36	-	1,646
Transfers	-	-	-1,247	1,337	1,039	-	-52	52	-888
Total Transformation Sector	-307	-	-9,743	8,900	1,828	-	778	-	3,931
Main Activity Producer	-162	-	-	-211	-	-	-	-	-103
Autoproducers	-145	-	-	-183	-	-	-	-	-97
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-9,833	9,294	1,828	-	778	-	4,130
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	91	-	-	-	-	-	-
Loss & Own Use	-	-	-	-277	-17	-	-	-	-8
Discrepancy	33	1	9	15	39	-	-23	-0	33
Total Final Energy Consumption	574	0	-	9,527	1,448	-	738	52	4,713
Industry Sector	574	0	-	1,259	19	-	-	-	695
Iron and Steel	61	0	-	394	2	-	-	-	347
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	512	-	-	864	17	-	-	-	348
Transport Sector	-	-	-	6,314	1,234	-	738	-	3,837
Domestic Air Transport	-	-	-	738	-	-	738	-	-
Road	-	-	-	5,369	1,234	-	-	-	3,837
Rail	-	-	-	207	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	0	-	-	1,251	195	-	-	52	181
Residential	-	-	-	712	-	-	-	-	-
Commerce and Public Services	0	-	-	376	175	-	-	52	75
Agriculture	-	-	-	41	19	-	-	-	22
Non-specified Others	-	-	-	122	1	-	-	-	84
Non-energy	-	-	-	704	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	11,193	1,916	-	2	2,582	-	-	23,184
-	-	-	-	164	-	-	-	-	1	0	-	8,438
-1,187	-259	-	-	-9	-5,412	-	-	-	-	-	-	-10,276
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
288	-19	-	-	-95	-	-	-	-	-	-	-	168
-899	-278	-	-	60	5,781	1,916	-	2	2,583	0	-	21,515
-39	1,796	-	-	-	-	-	-	-	-	-	-	393
1,413	188	138	-	646	-3,232	-1,916	-	-2	-389	3,723	-	-2,658
-115	-	-	-	-	-3,058	-1,864	-	-2	-156	3,494	-	-1,944
-88	-	-29	-	-	-174	-52	-	-	-167	229	-	-507
-	-	-	-	-	-	-	-	-	-	-	-	-
1,616	188	167	-	646	-	-	-	-	-	-	-	-196
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-67	-	-	-10
-76	-0	-143	-	-8	-614	-	-	-	-	-434	-	-1,305
9	-1	5	-	5	-174	-	-	-	-1	0	-	21
408	1,705	-	-	704	1,761	-	-	-	2,193	3,290	-	17,966
125	433	-	-	-	1,052	-	-	-	133	1,871	-	4,942
2	37	-	-	-	80	-	-	-	-	797	-	1,380
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
122	396	-	-	-	972	-	-	-	133	1,074	-	3,562
228	402	-	-	-	527	-	-	-	-	0	-	7,279
-	-	-	-	-	-	-	-	-	-	-	-	750
-	402	-	-	-	527	-	-	-	-	-	-	6,301
228	-	-	-	-	-	-	-	-	-	0	-	229
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
55	870	-	-	-	182	-	-	-	2,060	1,418	-	5,041
-	789	-	-	-	23	-	-	-	2,057	753	-	3,622
-	81	-	-	-	159	-	-	-	3	665	-	1,231
-	-	-	-	-	-	-	-	-	-	-	-	44
55	-	-	-	-	-	-	-	-	-	-	-	144
-	-	-	-	704	-	-	-	-	-	-	-	704
-	-	-	-	-	10,793	1,836	-	2	2,690	-	-	22,369
-	1	-	-	812	-	-	-	-	1	0	-	8,050
-1,613	-145	-	-	-146	-4,650	-	-	-	-	-	-	-9,931
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
652	-23	-	-	-227	-	-	-	-	-	-	-	1,565
-962	-167	-	-	440	6,143	1,836	-	2	2,691	0	-	22,053
-58	1,498	-	-	-253	-	-	-	-	-	-	-	90
1,453	208	167	-	535	-3,536	-1,836	-	-2	-259	3,432	-	-3,351
-108	-	-	-	-	-3,355	-1,794	-	-2	-74	3,212	-	-2,386
-86	-	-	-	-	-181	-42	-	-	-119	220	-	-450
-	-	-	-	-	-	-	-	-	-	-	-	-
1,648	208	167	-	535	-	-	-	-	-	-	-	-539
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-66	-	-	25
-77	-0	-167	-	-6	-1,323	-	-	-	-	-315	-	-1,915
-21	-1	1	-	-12	-0	-	-	-	-70	-1	-	-12
335	1,538	-	-	704	1,284	-	-	-	2,362	3,117	-	16,865
90	454	-	-	-	683	-	-	-	240	1,738	-	4,494
6	39	-	-	-	81	-	-	-	-	775	-	1,313
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
84	415	-	-	-	602	-	-	-	240	963	-	3,181
207	299	-	-	-	503	-	-	-	-	0	-	6,817
-	-	-	-	-	-	-	-	-	-	-	-	738
-	299	-	-	-	503	-	-	-	-	-	-	5,872
207	-	-	-	-	-	-	-	-	-	0	-	207
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
38	785	-	-	-	99	-	-	-	2,122	1,378	-	4,850
-	712	-	-	-	16	-	-	-	2,119	750	-	3,597
-	73	-	-	-	82	-	-	-	3	628	-	1,090
-	-	-	-	-	-	-	-	-	-	-	-	41
38	-	-	-	-	-	-	-	-	-	-	-	122
-	-	-	-	704	-	-	-	-	-	-	-	704

Major Energy Indicators of Peru

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	9,944	12,357	13,710	16,690	17,504	21,309	22,053	21,515
Indigenous Production	10,599	9,144	10,678	15,194	18,814	21,645	22,369	23,184
Import	1,667	5,393	6,791	6,836	7,446	8,276	8,050	8,438
Export	-2,263	-2,093	-3,808	-4,330	-7,069	-9,129	-9,931	-10,276
Final Energy Consumption	8,759	10,931	11,271	14,932	15,568	16,321	16,865	17,966
Industry	1,962	3,184	3,571	4,119	4,237	4,399	4,494	4,942
Transport	2,497	3,384	3,488	5,476	6,018	6,302	6,817	7,279
Residential	3,589	3,540	3,263	3,945	3,893	3,526	3,597	3,622
Commerce & Public Services	336	292	448	862	925	1,094	1,090	1,231
Others	375	530	501	530	495	999	867	892
Coal, Coal Products								
Primary Energy Supply	145	630	921	829	813	799	846	880
Indigenous Production	68	12	30	102	64	114	148	137
Import	71	588	808	553	701	433	456	750
Export	-	-	-	-	-75	-119	-115	-113
Transformation Sector	-18	-203	-331	-258	-276	-289	-307	-329
Power Generation	-	-99	-230	-258	-276	-289	-307	-329
Final Energy Consumption	99	428	589	580	657	558	574	573
Industry	92	428	589	580	657	557	574	573
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	7	-	-	-	-	0	0	0
Others	-	0	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	7,204	7,448	9,579	10,796	11,112	10,674	10,981	10,923
Indigenous Production	6,549	5,011	5,306	6,647	7,115	6,740	6,900	7,354
Import	887	3,087	4,839	5,067	4,869	4,854	4,843	4,573
Export	-150	-686	-651	-963	-967	-807	-813	-741
Transformation Sector	-7,427	-7,735	-8,235	-9,613	-10,381	-9,821	-9,743	-9,294
Petroleum Refineries	-7,427	-7,735	-8,235	-9,636	-10,381	-9,872	-9,833	-9,351
Petroleum Products								
Primary Energy Supply	-1,387	158	-2,133	-3,418	-4,129	-290	-447	-571
Import	709	1,718	1,144	1,173	1,876	2,988	2,750	3,114
Export	-2,114	-1,406	-3,156	-3,362	-4,102	-3,537	-4,352	-4,010
Transformation Sector	6,625	6,888	7,458	8,863	9,529	8,973	8,900	8,781
Power Generation	-759	-686	-619	-539	-524	-573	-394	-374
Petroleum Refineries	7,384	7,574	8,078	9,402	10,053	9,546	9,294	9,154
Final Energy Consumption	5,015	6,864	6,467	8,164	8,433	9,271	9,527	10,149
Industry	1,001	1,677	1,609	1,473	1,277	1,306	1,259	1,314
Transport	2,497	3,384	3,488	5,245	5,688	5,944	6,314	6,751
Residential	853	1,007	604	623	652	668	712	789
Commerce & Public Services	288	266	264	293	322	353	376	403
Others	375	530	501	530	495	999	867	892
Natural Gas								
Primary Energy Supply	407	444	1,462	3,690	4,947	5,674	6,143	5,781
Indigenous Production	407	444	1,462	3,690	6,863	10,339	10,793	11,193
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-1,917	-4,666	-4,650	-5,412
Transformation Sector	-67	-203	-959	-2,208	-2,816	-3,149	-3,536	-3,232
Power Generation	-67	-203	-959	-2,208	-2,816	-3,149	-3,536	-3,232
Final Energy Consumption	67	1	136	809	1,022	1,251	1,284	1,761
Industry	25	-	135	541	641	745	683	1,052
Transport	-	-	-	231	330	358	503	527
Residential	-	-	-	3	6	9	16	23
Commerce & Public Services	41	1	1	34	45	140	82	159
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	1,187	1,713	2,193	2,832	3,087	3,257	3,432	3,723
Thermal	241	268	519	998	1,131	1,163	1,401	1,483
Hydro	900	1,390	1,555	1,676	1,724	1,856	1,836	1,916
Nuclear	-	-	-	-	-	-	-	-
Others	46	54	120	158	232	237	195	324
Final Energy Consumption	1,013	1,489	1,954	2,552	2,715	2,949	3,117	3,290
Industry	647	926	1,175	1,400	1,511	1,645	1,738	1,871
Transport	-	-	-	-	-	0	0	0
Residential	367	538	602	626	654	710	750	753
Commerce & Public Services	-	25	177	526	551	594	628	665
Others	-	-	-	-	-	-	-	-

Major Economic Indicators of Peru

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	21.83	25.91	27.61	29.00	29.37	29.76	30.16	30.57
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	58.86	86.33	106.44	136.98	148.56	158.14	167.55	177.23
Real Term (Billions of 2010 Price and 2010 PPP)	112.62	165.20	203.68	262.12	284.28	302.62	320.62	339.14
Nominal (Billions of Current USD)	28.33	50.98	74.97	121.22	148.56	170.60	192.72	202.43
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	2,697	3,331	3,855	4,723	5,058	5,314	5,556	5,798
Real Term (2010 Price and 2010 PPP)	5,160	6,375	7,377	9,038	9,678	10,169	10,631	11,095
Nominal (Current USD)	1,298	1,967	2,715	4,180	5,058	5,733	6,390	6,623
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	5.322	177.918	247.081	365.056	419.694	469.855	508.319	546.942
Household Final Consumption Expenditure	4.080	128.075	162.815	232.368	256.465	281.718	310.040	335.904
General Government Final Consumption Expenditure	0.398	20.678	28.697	42.117	44.531	48.111	55.002	61.210
Gross Fixed Capital Formation	0.803	33.770	42.939	85.192	105.204	112.656	131.176	145.627
Stock Change	-0.064	-1.038	-2.866	-9.054	0.453	8.253	1.980	8.369
Exports of Goods and Services	0.858	29.867	65.647	91.943	111.470	139.337	137.921	130.558
Imports of Goods and Services	0.753	33.434	50.151	77.510	98.429	120.219	127.800	134.726
Real GDP & its Components (Billions of 2007 PEN) *1								
Gross Domestic Product	151.492	222.207	273.971	352.584	382.380	407.052	431.273	456.172
Household Final Consumption Expenditure	105.735	143.191	166.654	215.279	234.031	248.045	263.183	277.236
General Government Final Consumption Expenditure	16.249	25.444	29.783	39.811	42.036	44.063	47.634	50.802
Gross Fixed Capital Formation	21.823	39.663	44.441	79.680	98.099	103.977	120.867	130.016
Stock Change	0.889	-1.110	-2.963	-8.662	0.485	7.305	1.725	7.352
Exports of Goods and Services	25.797	55.911	90.527	103.669	105.044	112.310	118.818	116.084
Imports of Goods and Services	19.001	40.893	54.471	77.193	97.316	108.648	120.954	125.318
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	6.9	7.7	6.9	6.6	6.2	6.3	6.0	5.8
Industry	34.6	35.2	38.2	36.9	36.7	36.2	35.7	35.8
Services, etc.	58.6	48.7	46.5	48.1	48.2	48.8	49.4	49.6
Manufacturing Production Index (2010=100) *2	41.2	58.7	74.6	90.3	100.0	108.6	110.1	116.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.230	7.028	17.368	26.962	35.803	46.376	47.411	42.474
Imports, c.i.f.	2.634	7.415	12.502	21.814	30.030	37.747	42.274	43.357
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.432	-0.093	5.583	6.153	7.175	9.927	5.970	0.613
Current Account	-1.419	-1.546	1.148	-0.723	-3.782	-3.177	-6.281	-9.126
Overall Balance	-1.952	-0.514	1.178	3.398	9.616	5.570	13.924	1.048
Foreign Exchange Rate (PEN/USD) *1	0.188	3.490	3.296	3.012	2.825	2.754	2.638	2.702
PPP conversion factor, GDP (PEN/International Dollar) *1	0.072	1.331	1.335	1.410	1.476	1.521	1.526	1.529
Price Indices								
GDP Deflator (2007=100) *3	3.5	80.1	90.2	103.5	109.8	115.4	117.9	119.9
Wholesale Price Index (2010=100) *2	4.7	79.0	86.8	98.2	100.0	106.3	108.2	108.6
Consumer Price Index (2010=100) *2	3.1	79.2	87.1	98.5	100.0	103.4	107.1	110.2
Growth Rate (%) *3								
Real GDP	-4.98	2.69	6.29	1.05	8.45	6.45	5.95	5.77
Population	2.14	1.38	1.24	1.26	1.28	1.31	1.34	1.35
Price								
Wholesale Price Index	6,737.4	4.33	2.29	-1.76	1.83	6.34	1.77	0.38
Consumer Price Index	7,481.6	3.76	1.62	2.94	1.53	3.37	3.65	2.82

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

3.15 The Republic of the Philippines

Energy Balance Table of the Republic of the Philippines

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	3,743	-	220	-	-	-	-	-	-
Import	7,608	-	7,756	7,582	2,079	-	955	45	3,538
Export	-1,795	-	-187	-626	-10	-280	-	-	-
International Marine Bunkers	-	-	-	-163	-	-	-	-	-21
International Aviation Bunkers	-	-	-	-1,097	-	-	-1,097	-	-
Stock Changes	447	-	-38	267	82	14	0	3	121
Total Primary Energy Supply	10,003	-	7,751	5,963	2,151	-266	-142	48	3,638
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,806	-	-7,746	6,686	1,659	258	635	86	2,759
Main Activity Producer	-7,806	-	-	-1,077	-	-	-	-	-247
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-7,894	7,762	1,659	258	635	86	3,006
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	148	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-6	-400	-694	8	-65	-13	-130
Total Final Energy Consumption	2,196	-	-	12,249	3,116	-	429	120	6,267
Industry Sector	2,082	-	-	1,281	-	-	-	15	658
Iron and Steel	161	-	-	92	-	-	-	1	15
Chemical & Petrochemical	3	-	-	115	-	-	-	12	50
Non-metallic Minerals	1,666	-	-	177	-	-	-	0	59
Other Industries	253	-	-	897	-	-	-	2	533
Transport Sector	-	-	-	8,455	3,109	-	429	-	4,647
Domestic Air Transport	-	-	-	433	4	-	429	-	-
Road	-	-	-	7,390	3,089	-	-	-	4,244
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	632	16	-	-	-	403
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	114	-	-	2,199	7	-	-	105	962
Residential	-	-	-	880	-	-	-	104	-
Commerce and Public Services	-	-	-	1,124	-	-	-	-	780
Agriculture	-	-	-	34	0	-	-	0	33
Non-specified Others	114	-	-	160	7	-	-	1	149
Non-energy	-	-	-	314	-	-	-	-	-
2012									
Indigenous Production	3,879	-	220	-	-	-	-	-	-
Import	6,278	-	8,872	6,755	1,821	-	744	36	3,358
Export	-1,675	-	-141	-626	-15	-197	-	-	-50
International Marine Bunkers	-	-	-	-181	-	-	-	-	-17
International Aviation Bunkers	-	-	-	-1,082	-	-	-1,082	-	-
Stock Changes	834	-	82	-74	-18	14	0	3	-98
Total Primary Energy Supply	9,316	-	9,033	4,793	1,788	-184	-338	39	3,193
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-6,300	-	-8,280	7,256	1,751	146	684	91	2,980
Main Activity Producer	-6,300	-	-	-971	-	-	-	-	-194
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-8,402	8,227	1,751	146	684	91	3,174
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	122	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-1,118	-	-754	-493	-552	37	16	-6	-237
Total Final Energy Consumption	1,897	-	-	11,556	2,988	-	363	123	5,936
Industry Sector	1,784	-	-	1,275	-	-	-	17	603
Iron and Steel	84	-	-	84	-	-	-	2	11
Chemical & Petrochemical	19	-	-	122	-	-	-	14	49
Non-metallic Minerals	1,591	-	-	172	-	-	-	0	54
Other Industries	91	-	-	897	-	-	-	1	488
Transport Sector	-	-	-	8,097	2,981	-	363	-	4,530
Domestic Air Transport	-	-	-	370	7	-	363	-	-
Road	-	-	-	7,097	2,930	-	-	-	4,128
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	630	43	-	-	-	402
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,051	7	-	-	106	804
Residential	-	-	-	901	-	-	-	105	-
Commerce and Public Services	-	-	-	967	-	-	-	-	634
Agriculture	-	-	-	28	0	-	-	-	26
Non-specified Others	-	-	-	154	7	-	-	1	143
Non-energy	113	-	-	133	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,066	862	-	8,266	9,655	-	-	25,812
390	337	-	-	239	-	-	-	-	217	-	-	23,163
-228	-0	-	-	-108	-	-	-	-	-	-	-	-2,608
-141	-	-	-	-	-	-	-	-	-	-	-	-163
-	-	-	-	-	-	-	-	-	-	-	-	-1,097
46	2	-	-	-2	-	-	-	-	-	-	-	676
66	339	-	-	129	3,066	862	-	8,266	9,872	-	-	45,783
-	-	-	-	-	-	-	-	-	-	-	-	-
705	337	-	-	247	-2,883	-862	-	-8,266	-2,436	6,473	-	-16,840
-829	-	-	-	-	-2,883	-862	-	-8,266	-106	6,473	-	-14,527
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,534	337	-	-	247	-	-	-	-	-	-	-	-131
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-2,330	-	-	-2,181
-	-	-	-	-	-116	-	-	-	-	-513	-	-629
60	496	-	-	-62	-0	-	-	-	-539	-666	-	-1,611
831	1,172	-	-	314	67	-	-	-	6,897	5,295	-	26,704
497	111	-	-	-	66	-	-	-	1,091	1,778	-	6,299
63	12	-	-	-	-	-	-	-	0	363	-	616
48	5	-	-	-	-	-	-	-	1	108	-	226
104	15	-	-	-	-	-	-	-	1	135	-	1,979
283	79	-	-	-	66	-	-	-	1,089	1,172	-	3,478
214	57	-	-	-	1	-	-	-	-	10	-	8,466
-	-	-	-	-	-	-	-	-	-	-	-	433
-	57	-	-	-	1	-	-	-	-	-	-	7,391
-	-	-	-	-	-	-	-	-	-	10	-	10
214	-	-	-	-	-	-	-	-	-	-	-	632
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
120	1,004	-	-	-	-	-	-	-	5,806	3,507	-	11,625
-	776	-	-	-	-	-	-	-	5,445	1,773	-	8,098
116	228	-	-	-	-	-	-	-	357	1,574	-	3,056
0	-	-	-	-	-	-	-	-	1	141	-	176
4	-	-	-	-	-	-	-	-	3	19	-	296
-	-	-	-	314	-	-	-	-	-	-	-	314
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	3,159	882	-	8,822	6,473	-	-	23,435
255	376	-	-	165	-	-	-	-	168	-	-	22,074
-193	-0	-	-	-170	-	-	-	-	-	-	-	-2,442
-164	-	-	-	-	-	-	-	-	-	-	-	-181
-	-	-	-	-	-	-	-	-	-	-	-	-1,082
19	2	-	-	5	-	-	-	-	22	-	-	865
-83	378	-	-	-0	3,159	882	-	8,822	6,664	-	-	42,668
-	-	-	-	-	-	-	-	-	-	-	-	-
879	376	-	-	346	-3,015	-882	-	-8,822	-1,708	6,271	-	-15,479
-778	-	-	-	-	-3,015	-882	-	-8,822	-89	6,271	-	-13,808
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,657	376	-	-	346	-	-	-	-	-	-	-	-175
-	-	-	-	-	-	-	-	-	-1,619	-	-	-1,497
-	-	-	-	-	-135	-	-	-	-	-460	-	-596
70	392	-	-	-213	-8	-	-	-	-0	-719	-	-3,092
866	1,146	-	-	133	1	-	-	-	4,956	5,092	-	23,502
547	108	-	-	-	-	-	-	-	1,060	1,726	-	5,845
58	13	-	-	-	-	-	-	-	0	352	-	519
52	6	-	-	-	-	-	-	-	1	105	-	247
102	15	-	-	-	-	-	-	-	1	131	-	1,895
335	73	-	-	-	-	-	-	-	1,058	1,138	-	3,184
185	39	-	-	-	1	-	-	-	-	10	-	8,108
-	-	-	-	-	-	-	-	-	-	-	-	370
-	39	-	-	-	1	-	-	-	-	-	-	7,098
-	-	-	-	-	-	-	-	-	-	10	-	10
185	-	-	-	-	-	-	-	-	-	-	-	630
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
134	1,000	-	-	-	-	-	-	-	3,896	3,356	-	9,303
-	796	-	-	-	-	-	-	-	3,361	1,694	-	5,956
129	204	-	-	-	-	-	-	-	532	1,529	-	3,028
1	-	-	-	-	-	-	-	-	0	117	-	146
3	-	-	-	-	-	-	-	-	3	16	-	173
-	-	-	-	133	-	-	-	-	-	-	-	246

Major Energy Indicators of the Republic of the Philippines

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	28,309	38,969	37,828	38,547	39,500	39,756	42,668	45,783
Indigenous Production	17,222	19,552	21,404	23,288	23,194	23,080	23,435	25,812
Import	12,555	21,760	18,943	17,965	21,617	20,964	22,074	23,163
Export	-641	-1,753	-1,954	-1,802	-3,883	-2,864	-2,442	-2,608
Final Energy Consumption	19,474	23,502	22,359	22,856	23,488	22,961	23,502	26,704
Industry	4,511	5,212	5,215	5,601	5,871	5,747	5,732	6,299
Transport	4,290	7,695	7,867	7,962	8,097	7,789	8,108	8,466
Residential	9,164	8,172	6,820	6,280	6,285	6,162	5,956	8,098
Commerce & Public Services	841	1,726	1,962	2,419	2,668	2,743	3,028	3,056
Others	667	697	494	593	566	521	678	785
Coal, Coal Products								
Primary Energy Supply	1,358	4,539	5,230	5,310	7,030	7,726	9,316	10,003
Indigenous Production	649	715	1,520	2,474	3,510	3,632	3,879	3,743
Import	709	3,824	3,710	3,888	5,788	5,786	6,278	7,608
Export	-	-	-	-1,052	-2,163	-1,444	-1,675	-1,795
Transformation Sector	-559	-3,784	-4,134	-4,442	-5,090	-5,785	-6,300	-7,806
Power Generation	-559	-3,784	-4,134	-4,442	-5,090	-5,785	-6,300	-7,806
Final Energy Consumption	696	840	1,184	1,624	1,933	1,838	1,897	2,196
Industry	526	701	1,056	1,469	1,831	1,736	1,671	2,082
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	171	139	127	155	103	103	226	114
Crude Oil								
Primary Energy Supply	10,825	15,121	10,493	7,905	9,054	9,019	9,033	7,751
Indigenous Production	229	55	765	962	922	313	220	220
Import	10,597	15,033	10,301	6,772	9,095	9,124	8,872	7,756
Export	-	-	-738	-257	-862	-329	-141	-187
Transformation Sector	-10,242	-14,721	-9,958	-6,827	-8,650	-9,187	-8,280	-7,746
Petroleum Refineries	-10,242	-14,721	-9,958	-6,940	-8,733	-9,277	-8,402	-7,894
Petroleum Products								
Primary Energy Supply	-220	527	2,984	5,436	4,528	3,734	4,793	5,963
Import	1,249	2,903	4,931	7,261	6,639	5,905	6,755	7,582
Export	-641	-1,753	-1,216	-492	-857	-1,091	-626	-626
Transformation Sector	7,939	12,333	8,126	5,739	7,071	8,263	7,256	6,686
Power Generation	-2,135	-1,925	-1,411	-1,178	-1,487	-796	-971	-1,077
Petroleum Refineries	10,074	14,258	9,537	6,917	8,558	9,059	8,227	7,762
Final Energy Consumption	7,833	12,592	11,374	11,373	11,727	11,296	11,556	12,249
Industry	2,225	2,405	1,669	1,340	1,431	1,318	1,275	1,281
Transport	4,290	7,690	7,860	7,952	8,087	7,778	8,097	8,455
Residential	766	1,411	1,000	938	930	916	901	880
Commerce & Public Services	98	554	520	826	942	980	967	1,124
Others	454	532	325	316	336	303	315	508
Natural Gas								
Primary Energy Supply	-	9	2,724	3,230	3,055	3,293	3,159	3,066
Indigenous Production	-	9	2,724	3,230	3,055	3,293	3,159	3,066
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-9	-2,589	-3,076	-2,865	-3,137	-3,015	-2,883
Power Generation	-	-9	-2,589	-3,076	-2,865	-3,137	-3,015	-2,883
Final Energy Consumption	-	-	-	0	0	1	1	67
Industry	-	-	-	-	-	-	-	66
Transport	-	-	-	0	0	1	1	1
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	2,264	3,895	4,865	5,325	5,826	5,938	6,271	6,473
Thermal	1,079	2,224	3,290	3,583	4,279	4,202	4,412	4,673
Hydro	521	671	721	842	671	812	882	862
Nuclear	-	-	-	-	-	-	-	-
Others	664	1,000	853	900	876	925	977	938
Final Energy Consumption	1,824	3,144	3,884	4,377	4,753	4,824	5,092	5,295
Industry	855	1,135	1,325	1,469	1,598	1,663	1,726	1,778
Transport	-	5	8	10	10	10	10	10
Residential	482	1,109	1,379	1,508	1,620	1,608	1,694	1,773
Commerce & Public Services	444	870	1,130	1,269	1,398	1,430	1,529	1,574
Others	43	25	42	121	128	115	133	160

Major Economic Indicators of the Republic of the Philippines

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	61.95	77.93	86.14	91.64	93.04	94.50	96.02	97.57
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	94.52	125.35	156.87	185.44	199.59	206.90	220.97	236.84
Real Term (Billions of 2010 Price and 2010 PPP)	243.40	322.78	403.96	477.52	513.96	532.77	569.01	609.87
Nominal (Billions of Current USD)	44.31	81.03	103.07	168.33	199.59	224.14	250.24	272.07
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	1,526	1,608	1,821	2,024	2,145	2,189	2,301	2,427
Real Term (2010 Price and 2010 PPP)	3,929	4,142	4,690	5,211	5,524	5,638	5,926	6,250
Nominal (Current USD)	715	1,040	1,197	1,837	2,145	2,372	2,606	2,788
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	1,077.24	3,580.71	5,677.75	8,026.14	9,003.48	9,708.33	10,567.34	11,548.19
Household Final Consumption Expenditure	767.06	2,585.28	4,259.13	5,993.43	6,442.03	7,132.58	7,837.88	8,464.88
General Government Final Consumption Expenditure	108.84	409.05	513.25	791.40	875.29	941.84	1,145.14	1,282.41
Gross Fixed Capital Formation	248.95	791.34	1,129.94	1,526.10	1,847.75	1,819.27	2,068.89	2,361.91
Stock Change	11.21	-133.65	93.64	-194.44	1.63	167.66	-156.91	-91.33
Exports of Goods and Services	296.42	1,839.39	2,619.54	2,587.01	3,133.51	3,109.66	3,252.69	3,223.11
Imports of Goods and Services	358.55	1,910.69	2,937.76	2,677.36	3,296.73	3,462.68	3,580.35	3,692.79
Real GDP & its Components (Billions of 2000 PHP) *1								
Gross Domestic Product	2,700.07	3,580.71	4,481.28	5,297.24	5,701.54	5,910.20	6,312.17	6,765.46
Household Final Consumption Expenditure	1,774.61	2,585.28	3,301.79	3,817.91	3,945.83	4,166.41	4,442.52	4,694.76
General Government Final Consumption Expenditure	347.72	409.05	416.87	548.30	570.21	582.10	672.18	723.64
Gross Fixed Capital Formation	609.10	791.34	883.34	992.95	1,182.21	1,159.86	1,285.18	1,438.30
Stock Change	48.57	-133.65	61.68	-93.61	1.44	57.03	-133.11	58.48
Exports of Goods and Services	870.49	1,839.39	2,212.82	2,385.81	2,886.13	2,812.97	3,053.14	3,019.61
Imports of Goods and Services	934.09	1,910.69	2,395.23	2,354.11	2,884.28	2,868.16	3,007.73	3,169.32
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	15.2	14.0	13.3	12.5	11.6	11.5	11.1	10.4
Industry	35.4	34.5	32.7	31.5	32.6	32.0	32.2	32.8
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Manufacturing Production Index (2010=100) *2	22.5	66.2	96.1	85.5	100.0	102.1	109.3	115.3
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	8.117	39.783	41.255	38.436	51.496	48.305	52.099	56.698
Imports, c.i.f.	13.042	37.027	49.487	45.878	58.468	63.693	65.350	65.097
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.020	-8.213	-12.146	-13.860	-16.859	-20.428	-18.926	-17.662
Current Account	-2.695	-2.228	1.990	8.448	7.179	5.643	6.949	11.384
Overall Balance	-0.638	1.129	-0.513	7.424	21.042	11.120	13.791	9.287
Foreign Exchange Rate (PHP/USD) *1	24.311	44.192	55.085	47.680	45.110	43.313	42.229	42.446
PPP conversion factor, GDP (PHP/International Dollar) *1	6.709	13.713	15.466	17.013	17.518	17.854	17.875	17.958
Price Indices								
GDP Deflator (2000=100) *3	39.9	100.0	126.7	151.5	157.9	164.3	167.4	170.7
Producer Prices (2010=100) *2	N.A.	59.6	92.9	105.2	100.0	100.9	100.4	92.8
Consumer Price Index (2010=100) *2	28.6	63.7	78.7	96.3	100.0	104.6	108.0	111.2
Growth Rate (%) *3								
Real GDP	3.04	4.41	4.78	1.15	7.63	3.66	6.80	7.18
Population	2.58	2.16	1.83	1.49	1.52	1.57	1.60	1.62
Price								
Producer Prices	N.A.	12.47	9.08	-1.37	-4.97	0.91	-0.54	-7.59
Consumer Price Index	12.18	3.98	6.52	4.22	3.79	4.65	3.17	3.00

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

3.16 The Russian Federation

Energy Balance Table of the Russian Federation

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	184,275	-	524,200	-	-	-	-	-	-
Import	17,415	112	858	1,832	660	4	62	-	177
Export	-89,316	-1,749	-237,789	-115,800	-4,555	-968	-1,899	-	-43,166
International Marine Bunkers	-	-	-	-5,079	-	-	-	-	-1,412
International Aviation Bunkers	-	-	-	-6,073	-	-	-6,073	-	-
Stock Changes	-2,449	-	-1,454	-584	30	-4	-	-	-248
Total Primary Energy Supply	109,926	-1,637	285,814	-125,704	-3,864	-968	-7,910	-	-44,650
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-104,689	10,055	-280,686	259,514	41,383	22,570	13,983	-	70,883
Main Activity Producer	-49,565	-	-	-1,549	-	-	-	-	-
Autoproducers	-17,152	-3,069	-782	-8,296	-	-	-	-	-1,969
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-279,905	269,358	41,383	22,570	13,983	-	72,852
Coal Transformation	-37,972	13,124	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-687	-1,159	-5,021	-12,371	-	-	-	-	-2,400
Discrepancy	-69	6	0	179	-	-	0	-	-57
Total Final Energy Consumption	4,480	7,266	107	121,619	37,519	21,602	6,073	-	23,776
Industry Sector	1,360	7,266	33	12,030	-	-	-	-	2,255
Iron and Steel	-	7,041	-	371	-	-	-	-	-
Chemical & Petrochemical	157	8	20	6,961	-	-	-	-	69
Non-metallic Minerals	964	106	1	160	-	-	-	-	118
Other Industries	239	111	12	4,538	-	-	-	-	2,068
Transport Sector	-	-	-	59,485	37,519	-	6,073	-	15,107
Domestic Air Transport	-	-	-	6,086	14	-	6,073	-	-
Road	-	-	-	48,875	37,184	-	-	-	11,400
Rail	-	-	-	1,685	76	-	-	-	1,567
Inland Waterways	-	-	-	854	5	-	-	-	612
Pipeline Transport	-	-	-	300	71	-	-	-	226
Non-specified Transport	-	-	-	1,684	169	-	-	-	1,302
Other Sector	2,936	-	73	12,794	-	-	-	-	6,414
Residential	976	-	-	7,056	-	-	-	-	1,751
Commerce and Public Services	1,904	-	-	2,174	-	-	-	-	1,637
Agriculture	54	-	11	2,848	-	-	-	-	2,755
Non-specified Others	2	-	62	716	-	-	-	-	271
Non-energy	185	-	-	37,310	-	21,602	-	-	-
2012									
Indigenous Production	185,108	-	521,255	-	-	-	-	-	-
Import	17,875	390	840	1,723	230	4	-	-	256
Export	-83,542	-1,637	-241,151	-105,551	-3,368	-1,072	-	-	-41,864
International Marine Bunkers	-	-	-	-1,795	-	-	-	-	-1,299
International Aviation Bunkers	-	-	-	-6,605	-	-	-6,605	-	-
Stock Changes	-382	-	475	-348	-194	-	-	-	-112
Total Primary Energy Supply	119,059	-1,247	281,420	-112,576	-3,332	-1,068	-6,605	-	-43,019
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-111,159	9,721	-276,402	242,174	40,178	20,995	13,210	-	68,642
Main Activity Producer	-52,553	-	-	-7,176	-	-	-	-	-
Autoproducers	-17,580	-2,822	-796	-8,659	-	-	-	-	-2,010
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-275,606	258,009	40,178	20,995	13,210	-	70,651
Coal Transformation	-41,026	12,543	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-652	-991	-4,933	-12,200	-	-	-	-	-2,096
Discrepancy	-1,484	5	0	-298	-0	-	-	-	-311
Total Final Energy Consumption	5,763	7,488	85	117,101	36,846	19,927	6,606	-	23,215
Industry Sector	1,409	7,488	33	11,258	-	-	-	-	2,360
Iron and Steel	-	7,211	-	471	-	-	-	-	-
Chemical & Petrochemical	108	6	21	6,492	-	-	-	-	89
Non-metallic Minerals	1,036	130	1	130	-	-	-	-	93
Other Industries	265	141	11	4,165	-	-	-	-	2,178
Transport Sector	-	-	-	58,694	36,846	-	6,606	-	14,357
Domestic Air Transport	-	-	-	6,606	-	-	6,606	-	-
Road	-	-	-	47,662	36,535	-	-	-	10,745
Rail	-	-	-	1,686	81	-	-	-	1,559
Inland Waterways	-	-	-	843	4	-	-	-	596
Pipeline Transport	-	-	-	305	75	-	-	-	221
Non-specified Transport	-	-	-	1,593	151	-	-	-	1,236
Other Sector	4,169	-	52	12,351	-	-	-	-	6,499
Residential	1,547	-	-	6,291	-	-	-	-	1,526
Commerce and Public Services	2,563	-	-	2,172	-	-	-	-	1,638
Agriculture	58	-	10	3,078	-	-	-	-	2,986
Non-specified Others	2	-	42	810	-	-	-	-	348
Non-energy	185	-	-	34,797	-	19,927	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	563,279	15,579	44,980	382	7,272	-	-	1,339,967
11	87	-	-	832	6,736	-	-	-	1	405	-	27,360
-59,859	-3,444	-	-	-1,909	-174,112	-	-	-	-7	-1,581	-	-620,353
-3,667	-	-	-	-	-	-	-	-	-	-	-	-5,079
-	-	-	-	-	-	-	-	-	-	-	-	-6,073
-150	-235	-	-	23	-743	-	-	-	-34	-	-	-5,263
-63,665	-3,593	-	-	-1,054	395,161	15,579	44,980	382	7,233	-1,176	-	730,559
-	-	-	-	-	-	-	-	-	-	-	-	-
67,367	18,536	14,494	-	10,297	-254,841	-15,579	-44,980	-382	-4,409	90,953	129,276	-215,770
-1,549	-	-	-	-	-161,005	-15,454	-44,980	-382	-	85,406	58,384	-129,146
-5,599	-31	-698	-	-	-92,180	-125	-	-	-4,409	5,547	70,892	-49,573
-	-	-	-	-	-0	-	-	-	-	-	-	-0
74,515	18,567	15,191	-	10,297	-	-	-	-	-	-	-	-10,546
-	-	-	-	-	-	-	-	-	-	-	-	-24,848
-	-	-	-	-	-1,656	-	-	-	-	-	-	-1,656
-1,723	-56	-8,192	-	-	-15,849	-	-	-	-205	-25,914	-21,321	-82,527
-0	-0	236	-	0	2,002	-	-0	-	0	129	8	2,256
1,980	14,887	6,538	-	9,243	126,473	-	-	-	2,619	63,992	107,963	434,519
798	432	6,538	-	2,008	34,151	-	-	-	418	28,956	39,458	123,672
371	-	-	-	-	13,502	-	-	-	91	4,983	6,446	32,433
17	271	6,538	-	66	3,268	-	-	-	39	4,115	10,708	25,277
28	14	-	-	-	10,647	-	-	-	10	1,478	1,977	15,343
382	146	-	-	1,942	6,734	-	-	-	278	18,380	20,328	50,619
474	312	-	-	-	26,267	-	-	-	-	7,788	-	93,540
-	-	-	-	-	-	-	-	-	-	-	-	6,086
-	291	-	-	-	44	-	-	-	-	-	-	48,919
42	-	-	-	-	-	-	-	-	-	4,125	-	5,809
237	-	-	-	-	-	-	-	-	-	-	-	854
1	2	-	-	-	26,224	-	-	-	-	2,162	-	28,687
194	19	-	-	-	-	-	-	-	-	1,501	-	3,185
708	5,671	-	-	-	34,285	-	-	-	2,201	27,248	68,505	148,042
19	5,286	-	-	-	31,364	-	-	-	1,204	12,038	50,594	103,232
238	299	-	-	-	2,330	-	-	-	839	13,911	13,262	34,420
6	87	-	-	-	589	-	-	-	158	1,300	4,640	9,600
445	-	-	-	-	1	-	-	-	0	-	9	790
-	8,472	-	-	7,236	31,769	-	-	-	-	-	-	69,264
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	540,793	14,267	46,290	411	7,699	-	-	1,315,824
181	162	-	-	890	6,606	-	-	-	2	229	-	27,665
-54,534	-2,946	-	-	-1,767	-158,822	-	-	-	-307	-1,646	-	-592,656
-496	-	-	-	-	-	-	-	-	-	-	-	-1,795
-	-	-	-	-	-	-	-	-	-	-	-	-6,605
286	-327	-	-	-	-1,459	-	-	-	39	-	-	-1,675
-54,564	-3,112	-	-	-877	387,119	14,267	46,290	411	7,434	-1,417	-	740,758
-	-	-	-	-	-	-	-	-	-	-	-	-
58,633	16,793	14,268	-	9,456	-243,009	-14,267	-46,290	-411	-4,430	91,961	153,042	-199,069
-7,176	-	-	-	-	-153,018	-14,179	-46,290	-411	-	86,183	58,942	-128,502
-5,915	-33	-701	-	-	-88,318	-88	-	-	-4,430	5,778	94,100	-22,815
-	-	-	-	-	-0	-	-	-	-	-	-	-0
71,724	16,825	14,969	-	9,456	-	-	-	-	-	-	-	-17,597
-	-	-	-	-	-	-	-	-	-	-	-	-28,483
-	-	-	-	-	-1,673	-	-	-	-	-	-	-1,673
-1,810	-56	-8,237	-	-	-16,047	-	-	-	-206	-26,757	-29,305	-91,091
4	-	0	-	9	0	-	-	-	-146	-122	1	-2,043
2,262	13,625	6,031	-	8,589	128,064	-	-	-	2,653	63,665	123,738	448,555
1,060	399	6,031	-	1,409	34,076	-	-	-	404	29,120	47,459	131,248
471	-	-	-	-	13,473	-	-	-	85	4,864	8,615	34,719
54	249	6,031	-	70	3,261	-	-	-	39	4,071	13,685	27,683
31	7	-	-	-	10,624	-	-	-	9	1,525	2,010	15,465
504	143	-	-	1,340	6,719	-	-	-	271	18,660	23,149	53,381
479	408	-	-	-	27,020	-	-	-	-	7,916	-	93,630
-	-	-	-	-	-	-	-	-	-	-	-	6,606
-	382	-	-	-	45	-	-	-	-	-	-	47,707
45	1	-	-	-	-	-	-	-	-	4,103	-	5,789
243	-	-	-	-	-	-	-	-	-	-	-	843
7	3	-	-	-	26,975	-	-	-	-	2,153	-	29,434
184	21	-	-	-	-	-	-	-	-	1,659	-	3,252
724	5,128	-	-	-	35,267	-	-	-	2,248	26,629	76,279	156,995
26	4,739	-	-	-	32,263	-	-	-	1,210	11,369	57,230	109,909
230	303	-	-	-	2,397	-	-	-	887	13,921	13,909	35,848
6	86	-	-	-	606	-	-	-	151	1,314	5,132	10,349
462	-	-	-	-	1	-	-	-	0	25	8	889
-	7,691	-	-	7,179	31,700	-	-	-	-	-	-	66,682

Major Energy Indicators of the Russian Federation

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	881,937	624,705	656,475	641,442	689,653	722,798	740,758	730,559
Indigenous Production	1,292,817	977,791	1,203,101	1,190,458	1,279,205	1,299,216	1,315,824	1,339,967
Import	120,461	32,884	23,182	24,072	22,889	30,563	27,665	27,360
Export	-533,054	-382,460	-562,512	-561,776	-600,783	-599,552	-592,656	-620,353
Final Energy Consumption	625,018	417,876	411,969	413,964	446,362	458,614	448,555	434,519
Industry	208,682	127,839	123,030	115,459	126,336	128,127	131,248	123,672
Transport	115,882	74,483	88,573	89,622	96,494	98,421	93,630	93,540
Residential	83,445	140,255	110,560	109,423	111,477	117,537	109,909	103,232
Commerce & Public Services	36,277	22,640	34,725	38,019	37,024	35,883	35,848	34,420
Others	180,731	52,659	55,081	61,440	75,031	78,647	77,919	79,654
Coal, Coal Products								
Primary Energy Supply	191,071	119,981	112,635	95,272	101,146	103,330	117,811	108,289
Indigenous Production	192,401	128,535	157,426	153,640	166,360	164,565	185,108	184,275
Import	35,088	15,373	13,644	14,530	15,310	19,205	18,265	17,527
Export	-40,423	-25,465	-55,763	-68,671	-85,948	-80,571	-85,180	-91,065
Transformation Sector	-127,294	-97,508	-96,126	-82,618	-89,405	-93,836	-101,438	-94,634
Power Generation	-104,889	-79,891	-76,834	-64,426	-70,411	-73,019	-72,955	-69,785
Final Energy Consumption	54,671	17,952	13,226	14,022	14,229	15,669	13,251	11,746
Industry	14,559	7,256	6,870	9,307	9,872	11,347	8,897	8,625
Transport	0	-	-	-	-	-	-	-
Residential	11,817	8,932	2,824	1,911	1,548	1,551	1,547	976
Commerce & Public Services	20,581	387	2,672	2,547	2,471	2,415	2,563	1,904
Others	7,714	1,376	859	257	338	355	244	241
Crude Oil								
Primary Energy Supply	321,940	183,808	216,841	243,659	256,927	267,033	281,420	285,814
Indigenous Production	526,257	323,259	468,711	493,645	506,545	514,868	521,255	524,200
Import	18,593	5,921	2,438	1,793	1,105	468	840	858
Export	-222,909	-145,136	-253,850	-250,143	-248,268	-248,815	-241,151	-237,789
Transformation Sector	-308,936	-181,770	-213,894	-241,004	-251,967	-262,078	-276,402	-280,686
Petroleum Refineries	-307,422	-180,704	-213,129	-240,252	-251,180	-261,286	-275,606	-279,905
Petroleum Products								
Primary Energy Supply	-59,237	-57,695	-87,643	-105,736	-116,594	-108,510	-112,576	-125,704
Import	7,330	307	27	808	2,833	4,200	1,723	1,832
Export	-64,274	-53,302	-83,539	-101,137	-110,747	-102,771	-105,551	-115,800
Transformation Sector	209,141	157,737	192,119	219,400	238,186	236,654	242,174	259,514
Power Generation	-60,580	-22,171	-16,005	-12,038	-10,327	-15,831	-15,835	-9,845
Petroleum Refineries	269,720	179,908	208,856	231,611	248,513	252,484	258,009	269,358
Final Energy Consumption	144,780	89,720	91,826	101,525	109,317	116,160	117,101	121,619
Industry	24,456	16,957	10,265	10,831	11,039	10,119	11,258	12,030
Transport	72,882	42,294	47,557	55,022	56,302	59,346	58,694	59,485
Residential	8,771	4,355	6,331	4,484	4,718	5,768	6,291	7,056
Commerce & Public Services	421	988	844	1,599	1,663	2,508	2,172	2,174
Others	38,250	25,126	26,829	29,589	35,594	38,420	38,686	40,874
Natural Gas								
Primary Energy Supply	371,541	324,673	354,620	345,125	383,545	395,990	387,119	395,161
Indigenous Production	516,822	470,739	515,842	478,731	540,157	552,886	540,793	563,279
Import	56,438	10,526	6,201	6,677	3,498	6,553	6,606	6,736
Export	-201,719	-156,592	-167,423	-140,283	-154,175	-165,316	-158,822	-174,112
Transformation Sector	-227,749	-189,417	-205,837	-205,620	-222,989	-238,607	-243,009	-254,841
Power Generation	-227,749	-186,415	-203,783	-204,229	-221,312	-236,878	-241,336	-253,185
Final Energy Consumption	143,124	117,173	128,054	128,541	143,228	137,991	128,064	126,473
Industry	30,495	25,843	30,118	29,406	32,364	31,223	34,076	34,151
Transport	34,054	26,939	33,844	27,616	32,857	31,305	27,020	26,267
Residential	47,135	43,124	38,144	41,682	40,442	39,703	32,263	31,364
Commerce & Public Services	8,782	2,456	3,559	2,652	3,021	2,486	2,397	2,330
Others	22,658	18,812	22,388	27,186	34,542	33,273	32,307	32,360
Electricity								
Power Generation	93,065	75,376	81,800	85,144	89,106	90,558	91,961	90,953
Thermal	64,519	46,132	49,870	51,976	55,476	56,725	57,792	55,933
Hydro	14,269	14,111	14,850	14,980	14,318	14,263	14,267	15,579
Nuclear	10,287	11,363	12,989	14,217	14,811	15,031	15,430	14,993
Others	3,990	3,771	4,091	3,971	4,501	4,540	4,471	4,448
Final Energy Consumption	71,090	52,333	55,898	59,016	62,495	62,679	63,665	63,992
Industry	41,428	26,867	28,369	26,782	28,109	28,622	29,120	28,956
Transport	8,924	5,239	7,153	6,984	7,334	7,771	7,916	7,788
Residential	9,197	12,102	9,367	10,647	11,154	11,256	11,369	12,038
Commerce & Public Services	5,752	5,527	9,541	13,281	14,524	13,728	13,921	13,911
Others	5,789	2,598	1,468	1,322	1,373	1,301	1,339	1,300

Major Economic Indicators of the Russian Federation

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	148.29	146.60	143.52	142.79	142.85	142.96	143.20	143.51
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	1,413.89	951.56	1,281.32	1,459.20	1,524.92	1,589.94	1,644.09	1,666.13
Real Term (Billions of 2010 Price and 2010 PPP)	2,714.93	1,827.17	2,460.37	2,801.93	2,928.12	3,052.98	3,156.95	3,199.28
Nominal (Billions of Current USD)	N.A.	259.72	764.02	1,222.65	1,524.92	1,904.79	2,016.11	2,079.02
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	9,534	6,491	8,928	10,220	10,675	11,122	11,481	11,610
Real Term (2010 Price and 2010 PPP)	18,308	12,464	17,143	19,623	20,498	21,355	22,046	22,294
Nominal (Current USD)	N.A.	1,772	5,323	8,563	10,675	13,324	14,079	14,487
Nominal GDP & its Components (Billions of Current RUR) *1								
Gross Domestic Product	0.6	7,305.6	21,609.8	38,807.2	46,308.5	55,967.2	62,176.5	66,190.1
Household Final Consumption Expenditure	0.3	3,374.3	10,792.3	21,202.9	23,843.3	27,426.6	31,087.7	34,675.2
General Government Final Consumption Expenditure	0.1	1,102.5	3,645.9	8,066.7	8,671.3	10,102.8	11,888.7	13,047.5
Gross Fixed Capital Formation	0.2	1,232.0	3,836.9	8,535.7	10,014.4	11,950.3	13,604.6	14,334.3
Stock Change	0.0	133.7	501.8	-1,190.9	458.3	2,032.2	1,619.3	742.7
Exports of Goods and Services	0.1	3,218.9	7,607.3	10,842.0	13,529.3	16,940.9	18,413.1	18,936.6
Imports of Goods and Services	0.1	1,755.8	4,648.3	7,954.3	9,789.6	12,164.4	13,848.1	15,014.1
Real GDP & its Components (Billions of 2000 RUR) *1								
Gross Domestic Product	10,855.2	7,305.6	9,837.3	11,203.0	11,707.6	12,206.8	12,622.5	12,791.7
Household Final Consumption Expenditure	3,644.8	3,374.3	5,381.2	7,218.0	7,611.7	8,123.0	8,760.0	9,169.0
General Government Final Consumption Expenditure	1,466.9	1,102.5	1,189.6	1,284.6	1,265.3	1,283.0	1,342.0	1,348.7
Gross Fixed Capital Formation	6,142.4	1,232.0	1,979.7	2,676.1	2,834.0	3,091.9	3,292.8	3,289.5
Stock Change	771.0	133.7	200.2	-635.3	-211.6	81.2	-72.2	-265.3
Exports of Goods and Services	3,926.5	3,218.9	4,960.0	5,423.8	5,803.5	5,820.9	5,902.4	6,150.3
Imports of Goods and Services	4,678.7	1,755.8	4,027.8	4,926.5	6,197.6	7,455.7	8,111.8	8,411.9
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	5.5	5.8	4.9	4.7	4.0	4.4	4.1	4.0
Industry	42.6	33.9	34.4	30.1	30.7	31.0	30.6	30.2
Services, etc.	49.9	49.7	49.3	54.5	54.2	53.2	53.9	54.5
Industrial Production Index (2010=100) *2	N.A.	69.2	91.5	93.2	100.0	105.0	108.5	109.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	N.A.	105.565	243.798	303.388	400.630	522.011	529.255	523.276
Imports, c.i.f.	N.A.	44.659	125.434	191.803	248.634	323.831	335.446	341.335
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	57.089	116.185	113.231	146.995	196.854	191.663	181.939
Current Account	N.A.	45.382	84.389	50.384	67.452	97.274	71.282	34.801
Overall Balance	N.A.	21.997	69.954	9.760	45.882	21.286	40.390	-11.807
Foreign Exchange Rate (RUR/USD) *1	N.A.	28.129	28.284	31.740	30.368	29.382	30.840	31.837
PPP conversion factor, GDP (RUR/International Dollar) *1	0.001	7.301	12.736	14.019	15.815	17.346	18.043	18.425
Price Indices								
GDP Deflator (2000=100) *3	0.0	100.0	219.7	346.4	395.5	458.5	492.6	517.4
Producer Price Index (2010=100) *3	N.A.	27.3	61.7	89.1	100.0	117.7	125.7	129.9
Consumer Price Index (2010=100) *2	N.A.	30.8	61.4	93.6	100.0	108.4	113.9	121.6
Growth Rate (%)								
Real GDP (*3)	-3.00	10.00	6.38	-7.82	4.50	4.26	3.41	1.34
Population (*3)	0.39	-0.42	-0.38	0.03	0.04	0.08	0.17	0.21
Price (*2)								
Producer Price Index	N.A.	46.53	20.57	-7.19	12.22	17.71	6.76	3.34
Consumer Price Index	N.A.	20.78	12.68	11.65	6.86	8.43	5.07	6.76

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

Energy Price of Russian Federation in 2013

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	31.82
Local Currency Unit		RUB

IMPORT PRICES ¹⁾WHOLESALE PRICES ²⁾

CONSUMER PRICES

IMPORT PRICES ¹⁾			WHOLESALE PRICES ²⁾			CONSUMER PRICES		
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	USD/ton	146.2	Coking Coal	RUB/ton	4,045	Coking Coal		
Anthracite	USD/ton	64.8	Anthracite			Anthracite		
Other bituminous coal	USD/ton	200.0	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal			Sub-bituminous Coal		
Lignite	USD/ton	17.2	Lignite	RUB/ton	1,015	Lignite		
Peat	USD/ton	302.2	Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel ³⁾	RUB/ton	2,322
Coke	USD/ton	438.0	Coke			Coke		
Coal Tar	USD/ton	932.6	Coal Tar			Coal Tar		
BKB/PB	USD/ton	5,161.4	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/ton	180.6	Crude Oil	RUB/ton	14,414	Crude Oil		
Natural Gas Liquids	USD/ton	180.6	Natural Gas Liquids			Natural Gas Liquids		
Ethane	USD/ton	1,874.9	Ethane			Ethane		
LPG	USD/ton	714.4	LPG	RUB/ton	20,731	LPG		
Naphtha		1,813.1	Naphtha			Naphtha		
Motor Gasoline	USD/ton	708.8	Motor Gasoline	RUB/ton	35,539	Motor Gasoline ⁴⁾	RUB/litre	32.66
Aviation Gasoline	USD/ton	2,049.9	Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel		784.3	Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	USD/ton	809.7	Kerosene Type Jet Fuel	RUB/ton	31,509	Kerosene Type Jet Fuel		
Other Kerosene	USD/ton	1,024.5	Other Kerosene			Other Kerosene		
Gas/Diesel Oil	USD/ton	694.7	Gas/Diesel Oil	RUB/ton	36,275	Gas/Diesel Oil	RUB/litre	33.34
Fuel Oil	USD/ton	278.9	Fuel Oil	RUB/ton	12,357	Fuel Oil		
White Spirit SBP	USD/ton	1,711.6	White Spirit SBP			White Spirit SBP		
Lubricants	USD/ton	2,550.1	Lubricants	RUB/ton	53,246	Lubricants		
Bitumen	USD/ton	373.4	Bitumen	RUB/ton	7,645	Bitumen		
Paraffin Waxes	USD/ton	2,937.2	Paraffin Waxes			Paraffin Waxes		
Petroleum Coke	USD/ton	266.5	Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	USD/Mm3	27.047	Natural Gas	RUB/1000m3	4,638	Natural Gas ⁵⁾	RUB/month-person	63.63
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas ⁵⁾	RUB/month-person	241.51
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas	RUB/balloon 50 litre	614.80
Electricity			Electricity			Electricity		
Electricity	USD/MWh	28.5	Electricity	RUB/MWh	2,149	Industrial		
						Commercial		
						Residential ⁶⁾	RUB/100 kWh	302.64
						Residential ⁷⁾	RUB/100 kWh	214.32
Other Energy Products			Other Energy Products			Other Energy Products		
Charcoal	USD/ton	953.8						
Wood pellets	USD/ton	1,012.4						

1) By the data of the RF Federal Customs Service with taking into account the data on merchandise trade of the Republic of Belarus in US Dollars.

2) Acquisition price by the industrial organisations for own use as at the end of the period, in roubles.

3) Coal for population.

4) Grade AI-95 and higher (i.e. octane level - 95 and higher)

5) Tariff for population.

6) Households in dwellings, which aren't furnished with kitchen electric ranges.

7) Households in dwellings, which are furnished with kitchen electric ranges.

3.17 Singapore

Energy Balance Table of Singapore

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	266	0	47,215	102,180	13,895	7,693	1,673	16	12,930
Export	-3	-0	-121	-84,168	-23,500	-464	-5,016	-336	-21,966
International Marine Bunkers	-	-	-	-41,995	-	-	-	-	-
International Aviation Bunkers	-	-	-	-7,165	-	-	-7,165	-	-
Stock Changes	-	-	59	-	-	-	-	-	-
Total Primary Energy Supply	263	0	47,153	-31,147	-9,604	7,230	-10,508	-320	-9,036
Transfers	-	-	7,385	-	-	-	-	-	-
Total Transformation Sector	-135	-	-52,115	41,490	10,684	-	10,508	454	10,176
Main Activity Producer	-135	-	-	-455	-	-	-	-	-
Autoproducers	-	-	-	-263	-	-	-	-	-263
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-52,115	42,208	10,684	-	10,508	454	10,439
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	0	-0	-2,423	0	0	-	0	-0	0
Total Final Energy Consumption	129	-	-	10,343	1,080	7,230	-	134	1,140
Industry Sector	129	-	-	8,093	-	7,230	-	134	-
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	129	-	-	8,093	-	7,230	-	134	-
Transport Sector	-	-	-	2,133	1,080	-	-	-	1,054
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	2,133	1,080	-	-	-	1,054
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	116	-	-	-	-	86
Residential	-	-	-	30	-	-	-	-	-
Commerce and Public Services	-	-	-	86	-	-	-	-	86
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	-	-	-	-	-	-
2012									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	25	0	50,430	97,842	13,981	6,370	1,587	21	14,584
Export	-0	-0	-8	-84,303	-24,283	-466	-5,118	-362	-23,816
International Marine Bunkers	-	-	-	-41,998	-	-	-	-	-
International Aviation Bunkers	-	-	-	-6,847	-	-	-6,847	-	-
Stock Changes	-	-	-	-	-	-	-	-	-
Total Primary Energy Supply	25	0	50,422	-35,306	-10,302	5,904	-10,378	-340	-9,231
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-50,430	42,894	11,378	-	10,378	469	9,701
Main Activity Producer	-	-	-	-1,278	-	-	-	-	-
Autoproducers	-	-	-	-58	-	-	-	-	-58
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-50,430	44,230	11,378	-	10,378	469	9,759
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-25	-0	8	-0	-0	-	0	-0	-0
Total Final Energy Consumption	-	-	-	7,588	1,075	5,904	-	129	470
Industry Sector	-	-	-	6,043	-	5,904	-	129	-
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	6,043	-	5,904	-	129	-
Transport Sector	-	-	-	1,545	1,075	-	-	-	470
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	1,545	1,075	-	-	-	470
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	-	-	-	-	-	-

Note: Above Energy Balances Tables were estimated by CA.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	-	-	-	670	-	-	670
63,692	945	-	-	1,335	9,653	-	-	-	-	-	-	159,314
-26,314	-190	-	-	-6,382	-0	-	-	-	-	-	-	-84,291
-41,995	-	-	-	-	-	-	-	-	-	-	-	-41,995
-	-	-	-	-	-	-	-	-	-	-	-	-7,165
-	-	-	-	-	-	-	-	-	-	-	-	59
-4,617	755	-	-	-5,048	9,653	-	-	-	670	-	-	26,592
-	-	-	-	-	-	-	-	-	-	-	-	7,385
4,617	-	-	-	5,052	-8,463	-	-	-	-670	4,125	-	-15,767
-455	-	-	-	-	-7,611	-	-	-	-670	3,884	-	-4,986
-	-	-	-	-	-842	-	-	-	-	241	-	-864
-	-	-	-	-	-10	-	-	-	-	-	-	-10
5,072	-	-	-	5,052	-	-	-	-	-	-	-	-9,907
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-125	-	-125
-0	-	-	-	0	252	-	-	-	-	-136	-	-2,307
-	755	-	-	4	1,442	-	-	-	-	3,863	-	15,777
-	725	-	-	4	1,272	-	-	-	-	1,619	-	11,114
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	725	-	-	4	1,272	-	-	-	-	1,619	-	11,114
-	-	-	-	-	20	-	-	-	-	204	-	2,357
-	-	-	-	-	-	-	-	-	-	-	-	2,133
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	20	-	-	-	-	204	-	224
-	30	-	-	-	150	-	-	-	-	2,040	-	2,306
-	30	-	-	-	58	-	-	-	-	582	-	670
-	-	-	-	-	91	-	-	-	-	1,428	-	1,605
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1	-	-	-	-	30	-	31
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	886	-	-	886
59,444	10	-	-	1,844	9,158	-	-	-	-	-	-	157,455
-22,490	-446	-	-	-7,322	-0	-	-	-	-	-	-	-84,311
-41,998	-	-	-	-	-	-	-	-	-	-	-	-41,998
-	-	-	-	-	-	-	-	-	-	-	-	-6,847
-5,043	-437	-	-	-5,478	9,157	-	-	-	886	-	-	25,184
-	-	-	-	-	-	-	-	-	-	-	-	-
5,043	437	-	-	5,488	-7,486	-	-	-	-886	4,035	-	-11,873
-1,278	-	-	-	-	-7,110	-	-	-	-602	3,887	-	-5,104
-	-	-	-	-	-375	-	-	-	-284	148	-	-568
-	-	-	-	-	-1	-	-	-	-	-	-	-1
6,322	437	-	-	5,488	-	-	-	-	-	-	-	-6,200
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-374	-	-374
0	-	-	-	-0	-415	-	-	-	-	0	-	-432
-	-	-	-	10	1,256	-	-	-	-	3,661	-	12,505
-	-	-	-	10	1,095	-	-	-	-	1,457	-	8,595
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	10	1,095	-	-	-	-	1,457	-	8,595
-	-	-	-	-	22	-	-	-	-	206	-	1,773
-	-	-	-	-	-	-	-	-	-	-	-	1,545
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	22	-	-	-	-	206	-	227
-	-	-	-	-	139	-	-	-	-	1,998	-	2,137
-	-	-	-	-	57	-	-	-	-	571	-	628
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	82	-	-	-	-	1,427	-	1,509
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Singapore

ktoe

	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	9,896	17,236	18,684	22,629	22,118	20,587	25,184	26,592
Indigenous Production	19	96	67	76	86	120	886	670
Import	59,503	79,888	106,695	136,721	144,433	151,599	157,455	159,314
Export	-36,556	-39,544	-55,884	-73,592	-77,360	-83,790	-84,311	-84,291
Final Energy Consumption	5,322	6,397	11,267	12,046	12,368	12,446	12,505	15,777
Industry	1,907	3,514	8,077	8,215	8,500	8,478	8,595	11,114
Transport	2,368	1,190	1,225	1,475	1,499	1,523	1,773	2,357
Residential	-	1,441	1,712	2,102	2,115	2,191	628	670
Commerce & Public Services	-	-	-	-	-	-	-	1,605
Others	1,047	253	253	254	254	254	1,509	31
Coal, Coal Products								
Primary Energy Supply	-	-	-	-	-	-	25	264
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	25	266
Export	-	-	-	-	-	-	-0	-3
Transformation Sector	-	-	-	-	-	-	-	-135
Power Generation	-	-	-	-	-	-	-	-135
Final Energy Consumption	-	-	-	-	-	-	-	129
Industry	-	-	-	-	-	-	-	129
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	41,286	41,585	54,572	44,091	41,172	41,448	50,422	47,153
Indigenous Production	-	-	-	-	-	-	-	-
Import	41,286	41,585	54,738	44,136	41,211	41,468	50,430	47,215
Export	-0	-	-165	-45	-39	-20	-8	-121
Transformation Sector	-	-41,585	-54,572	-44,091	-41,172	-41,448	-50,430	-52,115
Petroleum Refineries	-43,571	-41,585	-54,572	-44,091	-41,172	-41,448	-50,430	-52,115
Petroleum Products								
Primary Energy Supply	-31,409	-25,524	-41,273	-27,856	-25,712	-27,586	-35,306	-31,147
Import	18,217	37,225	46,639	86,267	96,649	103,526	97,842	102,180
Export	-36,555	-39,544	-55,718	-73,547	-77,321	-83,770	-84,303	-84,168
Transformation Sector	-	30,051	50,481	37,487	40,144	41,526	42,894	41,490
Power Generation	-3,388	-5,688	-1,968	-1,518	-1,994	-2,005	-1,336	-718
Petroleum Refineries	39,530	35,868	52,577	39,133	42,266	43,659	44,230	42,208
Final Energy Consumption	4,046	3,787	8,200	8,703	8,742	8,766	7,588	10,343
Industry	1,296	2,372	6,725	6,978	6,994	6,994	6,043	8,093
Transport	2,352	1,165	1,225	1,475	1,499	1,523	1,545	2,133
Residential	-	-	-	-	-	-	-	30
Commerce & Public Services	-	-	-	-	-	-	-	86
Others	399	250	250	250	250	250	-	-
Natural Gas								
Primary Energy Supply	-	1,078	5,318	6,318	6,573	6,605	9,157	9,653
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	1,078	5,318	6,318	6,573	6,605	9,158	9,653
Export	-	-	-	-	-	-	-0	-0
Transformation Sector	-	-836	-5,212	-6,205	-6,460	-6,492	-7,486	-8,463
Power Generation	-	-942	-5,318	-6,318	-6,573	-6,605	-7,485	-8,453
Final Energy Consumption	55	105	106	113	119	123	1,256	1,442
Industry	32	66	61	64	70	74	1,095	1,272
Transport	-	-	-	-	-	-	22	20
Residential	-	39	45	49	49	50	57	58
Commerce & Public Services	-	-	-	-	-	-	-	91
Others	23	-	-	-	-	-	82	1
Electricity								
Power Generation	1,343	2,723	3,286	3,595	3,902	3,956	4,035	4,125
Thermal	1,324	2,627	3,220	3,519	3,816	3,836	3,149	3,455
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	19	96	67	76	86	120	886	670
Final Energy Consumption	1,221	2,505	2,960	3,230	3,507	3,556	3,661	3,863
Industry	580	1,076	1,290	1,172	1,436	1,410	1,457	1,619
Transport	16	25	-	-	-	-	206	204
Residential	-	1,401	1,666	2,053	2,067	2,141	571	582
Commerce & Public Services	-	-	-	-	-	-	-	1,428
Others	625	3	4	4	4	5	1,427	30

Major Economic Indicators of Singapore

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	3.05	4.03	4.27	4.99	5.08	5.18	5.31	5.40
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	67.58	134.49	170.72	205.15	236.42	251.10	259.67	271.21
Real Term (Billions of 2010 Price and 2010 PPP)	102.45	203.88	258.80	311.01	358.41	380.65	393.65	411.14
Nominal (Billions of Current USD)	38.90	95.84	127.42	192.41	236.42	275.37	289.94	302.25
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	22,179	33,390	40,020	41,133	46,570	48,440	48,880	50,231
Real Term (2010 Price and 2010 PPP)	33,622	50,618	60,669	62,356	70,598	73,433	74,100	76,149
Nominal (Current USD)	12,766	23,793	29,870	38,577	46,570	53,122	54,578	55,980
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	70.51	165.22	212.07	279.86	322.36	346.35	362.33	378.20
Household Final Consumption Expenditure	31.56	68.64	83.00	104.88	114.52	123.94	132.27	138.62
General Government Final Consumption Expenditure	6.70	17.73	21.60	28.79	32.84	33.49	33.58	38.22
Gross Fixed Capital Formation	22.36	52.94	48.94	81.92	84.22	88.31	96.83	99.98
Stock Change	2.77	4.72	-3.62	-4.49	5.62	6.09	11.83	9.68
Exports of Goods and Services	124.91	312.56	479.46	536.99	642.33	697.11	708.15	724.45
Imports of Goods and Services	117.82	292.25	416.20	471.14	557.17	605.68	626.08	636.64
Real GDP & its Components (Billions of 2010 SGD) *1								
Gross Domestic Product	92.15	183.38	232.77	279.73	322.36	342.37	354.06	369.79
Household Final Consumption Expenditure	41.27	78.76	96.43	108.14	114.52	119.05	123.15	127.52
General Government Final Consumption Expenditure	8.23	20.62	24.27	29.65	32.84	32.23	31.96	35.62
Gross Fixed Capital Formation	24.16	57.11	53.48	78.11	84.22	88.60	96.17	97.28
Stock Change	6.26	5.33	-4.63	-5.87	5.62	5.76	11.37	9.55
Exports of Goods and Services	104.65	295.24	468.26	547.11	642.33	680.19	691.60	722.76
Imports of Goods and Services	95.49	274.57	407.04	479.52	557.17	582.78	600.94	623.95
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Industry	25.6	26.9	24.4	24.3	26.1	26.3	25.9	25.4
Services, etc.	66.6	66.3	69.2	69.8	68.3	68.4	68.0	68.5
Industrial Production Index (2010=100) *2	27.5	57.7	70.9	77.1	100.0	107.6	107.9	109.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	52.730	137.804	229.649	269.832	351.867	409.503	408.393	410.250
Imports, c.i.f.	60.774	134.545	200.047	245.785	310.791	365.770	379.723	373.016
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.633	16.222	47.744	47.580	62.840	71.547	67.487	74.501
Current Account	3.122	10.158	27.868	32.360	55.943	60.561	49.774	54.084
Overall Balance	7.047	4.560	11.990	11.187	37.666	16.135	26.995	18.012
Foreign Exchange Rate (SGD/USD) *1	1.813	1.724	1.664	1.455	1.364	1.258	1.250	1.251
PPP conversion factor, GDP (SGD/International Dollar) *1	1.043	1.002	0.902	0.911	0.899	0.891	0.886	0.872
Price Indices								
GDP Deflator (2010=100) *3	76.5	90.1	91.1	100.0	100.0	101.2	102.3	102.3
Wholesale Prices (2010=100) *2	91.2	85.9	97.9	95.5	100.0	108.4	109.0	106.0
Consumer Price Index (2010=100) *2	71.9	85.3	88.0	97.3	100.0	105.3	110.0	112.6
Growth Rate (%) *3								
Real GDP	10.04	8.90	7.49	-0.60	15.24	6.21	3.41	4.44
Population	3.96	1.75	2.38	3.06	1.79	2.11	2.48	1.63
Price								
Wholesale Prices	1.73	10.09	9.65	-13.91	4.74	8.44	0.47	-2.70
Consumer Price Index	3.46	1.36	0.43	0.60	2.80	5.25	4.53	2.38

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

3.18 Chinese Taipei

Energy Balance Table of Chinese Taipei

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	-	-	9	-	-	-	-	-	-
Import	36,782	116	44,038	17,572	-	12,519	-	-	37
Export	-	-9	-	-17,156	-4,253	-	-1,264	-	-9,860
International Marine Bunkers	-	-	-	-1,224	-	-	-	-	-119
International Aviation Bunkers	-	-	-	-2,200	-	-	-2,200	-	-
Stock Changes	-92	-	479	221	-31	116	-	4	69
Total Primary Energy Supply	36,690	107	44,527	-2,787	-4,284	12,635	-3,464	4	-9,872
Transfers	-	-	-	-930	-97	1,076	-19	-	57
Total Transformation Sector	-30,129	2,760	-44,572	42,632	11,951	3,600	3,870	-	14,266
Main Activity Producer	-18,807	-	-	-1,285	-	-	-	-	-44
Autoproducers	-5,640	-687	-	-968	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-44,572	44,885	11,951	3,600	3,870	-	14,310
Coal Transformation	-5,683	3,447	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-1,172	-	-1,662	-2	-	-	-0	-61
Discrepancy	-1,074	197	45	1,480	78	7	-165	0	214
Total Final Energy Consumption	5,488	1,892	-	38,732	7,645	17,317	222	4	4,603
Industry Sector	5,456	1,776	-	2,527	6	-	-	0	106
Iron and Steel	164	1,611	-	282	0	-	-	-	6
Chemical & Petrochemical	3,420	165	-	914	0	-	-	-	62
Non-metallic Minerals	1,452	-	-	280	0	-	-	-	15
Other Industries	419	-	-	1,051	5	-	-	0	23
Transport Sector	-	-	-	11,683	7,607	-	79	-	3,853
Domestic Air Transport	-	-	-	79	-	-	79	-	-
Road	-	-	-	11,427	7,607	-	-	-	3,739
Rail	-	-	-	27	-	-	-	-	27
Inland Waterways	-	-	-	149	-	-	-	-	87
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,397	33	-	143	4	644
Residential	-	-	-	1,114	-	-	-	-	-
Commerce and Public Services	-	-	-	953	33	-	143	4	342
Agriculture	-	-	-	3	0	-	-	-	1
Non-specified Others	-	-	-	326	-	-	-	-	302
Non-energy	32	116	-	22,125	-	17,317	-	-	-
2012									
Indigenous Production	-	-	10	-	-	-	-	-	-
Import	35,642	156	46,603	14,469	-	10,613	-	-	-
Export	-	-76	-	-16,366	-3,366	-34	-1,319	-	-9,346
International Marine Bunkers	-	-	-	-1,182	-	-	-	-	-124
International Aviation Bunkers	-	-	-	-2,075	-	-	-2,075	-	-
Stock Changes	350	-	461	-181	-46	46	-	-1	-129
Total Primary Energy Supply	35,993	81	47,074	-5,335	-3,412	10,626	-3,394	-1	-9,599
Transfers	-	-	-	-901	-61	1,445	-23	-	60
Total Transformation Sector	-30,113	2,380	-47,354	45,254	11,029	4,282	3,867	-	14,030
Main Activity Producer	-19,816	-	-	-1,380	-	-	-	-	-45
Autoproducers	-5,091	-672	-	-843	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-47,354	47,476	11,029	4,282	3,867	-	14,074
Coal Transformation	-5,206	3,052	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-945	-	-1,642	-2	-	-	-0	-25
Discrepancy	-577	104	280	-175	74	36	-240	4	156
Total Final Energy Consumption	5,302	1,619	-	37,200	7,629	16,389	211	3	4,622
Industry Sector	5,277	1,482	-	2,856	6	-	-	0	120
Iron and Steel	190	1,322	-	311	0	-	-	-	6
Chemical & Petrochemical	3,228	160	-	1,083	0	-	-	-	68
Non-metallic Minerals	1,420	-	-	288	0	-	-	-	15
Other Industries	438	-	-	1,174	6	-	-	0	31
Transport Sector	-	-	-	11,683	7,588	-	86	-	3,863
Domestic Air Transport	-	-	-	86	-	-	86	-	-
Road	-	-	-	11,415	7,588	-	-	-	3,743
Rail	-	-	-	27	-	-	-	-	27
Inland Waterways	-	-	-	154	-	-	-	-	93
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,403	35	-	125	3	639
Residential	-	-	-	1,137	-	-	-	-	-
Commerce and Public Services	-	-	-	927	35	-	125	3	329
Agriculture	-	-	-	3	0	-	-	-	0
Non-specified Others	-	-	-	336	-	-	-	-	310
Non-energy	25	137	-	20,259	-	16,389	-	-	-

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Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	305	812	10,851	212	1,691	-	-	13,880
1,456	1,383	-	-	2,177	16,035	-	-	-	-	-	-	114,544
-602	-107	-	-	-1,070	-	-	-	-	-	-	-	-17,165
-1,105	-	-	-	-	-	-	-	-	-	-	-	-1,224
-	-	-	-	-	-	-	-	-	-	-	-	-2,200
-57	122	-	-	-	-3	-	-	-	-	-	-	606
-309	1,398	-	-	1,107	16,338	812	10,851	212	1,691	-	-	108,440
-1,573	-119	-	-	-254	-	-	-	-	-	-	-	-930
4,171	1,686	1,367	-	1,720	-12,167	-740	-10,851	-159	-1,590	21,694	-	-33,124
-1,242	-	-	-	-	-11,935	-740	-10,851	-131	-	18,397	-	-25,353
-450	-	-12	-	-506	-68	-	-	-28	-1,590	3,296	-	-5,685
-	-	-	-	-	-164	-	-	-	-	-	-	-164
5,863	1,686	1,379	-	2,226	-	-	-	-	-	-	-	314
-	-	-	-	-	-	-	-	-	-	-	-	-2,236
-	-	-	-	-	-	-	-	-	-	-	-	-
-170	-63	-1,367	-	-	-530	-	-	-	-	-1,754	-	-5,119
439	69	-	-	838	-832	-71	-	49	-100	-448	-	-754
2,559	2,971	-	-	3,411	2,809	-	-	102	-	19,491	-	68,513
2,099	305	-	-	12	1,548	-	-	-	-	11,356	-	22,664
254	10	-	-	12	286	-	-	-	-	1,293	-	3,636
679	173	-	-	-	351	-	-	-	-	3,271	-	8,122
259	7	-	-	-	200	-	-	-	-	494	-	2,427
908	115	-	-	-	711	-	-	-	-	6,298	-	8,479
62	81	-	-	-	-	-	-	-	-	110	-	11,792
-	-	-	-	-	-	-	-	-	-	-	-	79
-	81	-	-	-	-	-	-	-	-	-	-	11,427
-	-	-	-	-	-	-	-	-	-	110	-	137
62	-	-	-	-	-	-	-	-	-	-	-	149
-	-	-	-	-	-	-	-	-	-	-	-	-
397	1,176	-	-	-	1,261	-	-	102	-	8,025	-	11,784
-	1,114	-	-	-	734	-	-	102	-	3,747	-	5,697
371	61	-	-	-	527	-	-	-	-	4,041	-	5,521
2	0	-	-	-	-	-	-	-	-	158	-	161
24	-	-	-	-	-	-	-	-	-	79	-	405
-	1,409	-	-	3,399	-	-	-	-	-	-	-	22,273
-	-	-	-	-	354	740	10,544	230	1,731	-	-	13,610
1,040	894	-	-	1,923	15,935	-	-	-	-	-	-	112,807
-1,333	-110	-	-	-859	-	-	-	-	-	-	-	-16,442
-1,058	-	-	-	-0	-	-	-	-	-	-	-	-1,182
-	-	-	-	-	-	-	-	-	-	-	-	-2,075
-38	-13	-	-	-	108	-	-	-	-	-	-	739
-1,389	771	-	-	1,063	16,397	740	10,544	230	1,731	-	-	107,457
-2,279	116	-	-	-161	-	-	-	-	-	-	-	-901
7,131	1,511	1,258	-	2,146	-12,258	-740	-10,544	-127	-1,626	21,534	-	-33,596
-1,335	-	-	-	-	-11,542	-740	-10,544	-122	-	18,516	-	-25,629
-440	-	-14	-	-389	-81	-	-	-5	-1,626	3,018	-	-5,300
-	-	-	-	-	-635	-	-	-	-	-	-	-635
8,906	1,511	1,271	-	2,535	-	-	-	-	-	-	-	122
-	-	-	-	-	-	-	-	-	-	-	-	-2,155
-	-	-	-	-	-	-	-	-	-	-	-	-
-269	-89	-1,258	-	-	-712	-	-	-	-	-1,760	-	-5,059
-318	-31	-0	-	143	-766	0	-	-0	-105	-636	-	-1,877
2,876	2,278	-	-	3,192	2,661	-	-	103	-	19,138	-	66,023
2,420	298	-	-	12	1,441	-	-	-	-	11,043	-	22,100
282	10	-	-	12	272	-	-	-	-	1,296	-	3,391
860	155	-	-	-	334	-	-	-	-	3,218	-	8,024
265	8	-	-	-	195	-	-	-	-	476	-	2,378
1,013	124	-	-	-	641	-	-	-	-	6,053	-	8,307
61	84	-	-	-	-	-	-	-	-	106	-	11,789
-	-	-	-	-	-	-	-	-	-	-	-	86
-	84	-	-	-	-	-	-	-	-	-	-	11,415
-	-	-	-	-	-	-	-	-	-	106	-	133
61	-	-	-	-	-	-	-	-	-	-	-	154
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
395	1,206	-	-	-	1,220	-	-	103	-	7,989	-	11,714
-	1,137	-	-	-	751	-	-	103	-	3,722	-	5,713
367	69	-	-	-	468	-	-	-	-	4,034	-	5,429
3	0	-	-	-	-	-	-	-	-	154	-	157
25	-	-	-	-	-	-	-	-	-	79	-	415
-	690	-	-	3,180	-	-	-	-	-	-	-	20,420

Major Energy Indicators of Chinese Taipei

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	45,477	78,981	104,593	104,568	111,523	107,622	107,457	108,440
Indigenous Production	10,748	11,476	13,152	13,801	13,625	13,782	13,610	13,880
Import	39,723	78,713	111,997	111,855	117,600	110,117	112,807	114,544
Export	-335	-2,294	-15,590	-18,733	-15,841	-13,426	-16,442	-17,165
Final Energy Consumption	29,302	53,558	62,206	63,990	68,090	65,827	66,023	68,513
Industry	15,667	29,393	23,738	19,870	22,327	22,489	22,100	22,664
Transport	6,735	12,165	12,657	11,480	11,854	12,025	11,789	11,792
Residential	2,904	4,802	6,140	5,686	5,719	5,827	5,713	5,697
Commerce & Public Services	2,259	3,999	4,882	5,348	5,490	5,430	5,429	5,521
Others	1,736	3,199	14,790	21,606	22,699	20,056	20,992	22,839
Coal, Coal Products								
Primary Energy Supply	10,562	27,493	39,183	36,916	39,186	36,992	36,073	36,797
Indigenous Production	278	49	-	-	-	-	-	-
Import	11,389	27,911	39,715	36,090	39,106	37,081	35,799	36,898
Export	-0	-	-	-25	-78	-66	-76	-9
Transformation Sector	-	-	-30,217	-30,601	-31,059	-28,123	-27,734	-27,369
Power Generation	-5,145	-19,428	-28,585	-28,817	-28,700	-25,940	-25,579	-25,133
Final Energy Consumption	5,903	8,391	6,706	5,926	6,915	6,944	6,921	7,380
Industry	5,897	8,339	6,646	5,818	6,767	6,870	6,759	7,232
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	6	52	60	108	149	74	162	148
Crude Oil								
Primary Energy Supply	20,512	36,188	54,303	50,008	45,915	42,648	47,074	44,527
Indigenous Production	156	32	29	14	13	10	10	9
Import	21,105	36,876	54,576	49,643	46,059	41,908	46,603	44,038
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-54,431	-50,159	-46,059	-42,627	-47,354	-44,572
Petroleum Refineries	-20,512	-36,188	-54,431	-50,159	-46,059	-42,627	-47,354	-44,572
Petroleum Products								
Primary Energy Supply	3,406	-1,093	-12,004	-7,143	-1,035	-1,057	-5,335	-2,787
Import	6,467	8,757	7,864	15,059	18,569	15,869	14,469	17,572
Export	-335	-2,294	-15,590	-18,708	-15,763	-13,360	-16,366	-17,156
Transformation Sector	-	-	50,566	47,657	44,012	40,474	45,254	42,632
Power Generation	-4,825	-6,171	-3,882	-2,463	-2,990	-2,555	-2,222	-2,254
Petroleum Refineries	19,184	39,502	54,448	50,121	47,002	43,028	47,476	44,885
Final Energy Consumption	16,106	29,907	36,692	38,789	40,170	37,225	37,200	38,732
Industry	5,803	12,868	7,319	3,798	3,869	3,413	2,856	2,527
Transport	6,698	12,071	12,542	11,385	11,754	11,921	11,683	11,683
Residential	1,094	1,266	1,304	1,225	1,186	1,168	1,137	1,114
Commerce & Public Services	973	830	1,012	1,104	1,035	975	927	953
Others	1,538	2,872	14,516	21,276	22,325	19,747	20,597	22,454
Natural Gas								
Primary Energy Supply	1,728	5,596	10,476	11,280	14,082	15,532	16,397	16,338
Indigenous Production	1,045	598	487	281	237	264	354	305
Import	762	5,169	9,842	11,062	13,866	15,260	15,935	16,035
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-8,113	-9,523	-11,539	-11,959	-12,258	-12,167
Power Generation	-241	-3,393	-7,518	-8,100	-10,472	-11,294	-11,623	-12,003
Final Energy Consumption	926	1,490	1,986	1,833	2,124	2,378	2,661	2,809
Industry	392	682	862	820	1,014	1,218	1,441	1,548
Transport	-	-	-	-	-	-	-	-
Residential	400	565	844	655	695	737	751	734
Commerce & Public Services	81	162	280	358	415	423	468	527
Others	53	81	-	-	-	-	-	-
Electricity								
Power Generation	7,481	15,897	19,561	19,753	21,245	21,687	21,534	21,694
Thermal	3,922	11,790	13,957	13,634	15,208	15,733	15,525	15,586
Hydro	704	763	680	607	624	594	740	740
Nuclear	2,855	3,345	3,472	3,611	3,616	3,659	3,515	3,617
Others	-	-	1,451	1,902	1,797	1,702	1,753	1,750
Final Energy Consumption	6,367	13,770	16,734	17,341	18,777	19,178	19,138	19,491
Industry	3,575	7,504	8,911	9,434	10,677	10,989	11,043	11,356
Transport	37	94	115	95	100	103	106	110
Residential	1,410	2,971	3,905	3,704	3,735	3,820	3,722	3,747
Commerce & Public Services	1,206	3,008	3,589	3,886	4,040	4,032	4,034	4,041
Others	139	195	214	222	225	234	233	237

Major Economic Indicators of Chinese Taipei

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	20.40	22.28	22.77	23.12	23.16	23.22	23.32	23.37
Gross Domestic Product *4								
Real Term (Billions of 2010 Price and 2010 USD)	161.63	309.23	376.83	420.26	464.94	482.63	492.59	503.58
Real Term (Billions of 2010 Price and 2010 PPP)	268.81	514.28	626.71	698.93	773.24	802.66	819.22	837.51
Nominal (Billions of Current USD)	165.28	313.75	368.11	404.67	464.94	472.51	504.08	508.22
GDP per Capita *4								
Real Term (2010 Price and 2010 USD)	7,923	13,881	16,549	18,177	20,073	20,781	21,127	21,545
Real Term (2010 Price and 2010 PPP)	13,176	23,086	27,523	30,231	33,384	34,560	35,136	35,831
Nominal (Current USD)	8,101	14,084	16,166	17,503	20,073	20,345	21,620	21,743
Nominal GDP & its Components (Billions of Current TWD) *2								
Gross Domestic Product	4,480.29	10,351.26	12,092.25	12,961.66	14,119.21	14,312.20	14,686.92	15,221.20
Private Final Consumption	2,341.50	5,706.27	6,784.33	7,175.51	7,497.68	7,798.98	8,035.11	8,249.26
Government Final Consumption	809.99	1,623.90	1,845.57	2,055.72	2,098.72	2,167.60	2,254.28	2,226.23
Gross Fixed Capital Formation	1,111.41	2,722.60	2,924.29	2,761.74	3,335.88	3,346.95	3,282.13	3,371.16
Changes in Inventories	30.68	92.50	33.56	-181.49	188.76	35.92	22.03	-11.21
Exports	2,020.06	5,373.34	7,329.79	7,827.34	10,013.54	10,419.70	10,345.38	10,580.25
Imports	1,833.36	5,167.34	6,825.27	6,677.16	9,015.37	9,456.94	9,252.01	9,194.48
Real GDP & its Components (Billions of 2011 TWD) *2								
Gross Domestic Product	4,793.16	9,170.12	11,174.92	12,462.73	13,787.64	14,312.20	14,607.57	14,933.67
Private Final Consumption	3,091.55	6,053.43	7,111.08	7,289.40	7,563.29	7,798.98	7,940.91	8,127.52
Government Final Consumption	1,244.79	1,879.44	1,976.75	2,104.04	2,126.12	2,167.60	2,214.45	2,188.90
Gross Fixed Capital Formation	1,562.93	3,411.61	3,410.02	2,837.73	3,385.79	3,346.95	3,259.48	3,421.72
Changes in Inventories	44.59	98.43	33.68	-193.26	196.43	35.92	19.02	-33.81
Exports	2,080.01	5,016.20	7,024.33	7,957.05	9,999.95	10,419.70	10,462.13	10,829.84
Imports	2,929.70	6,999.95	8,283.23	7,420.84	9,500.59	9,456.94	9,288.41	9,598.63
Sectional Shares of Real GDP (%) *2								
Agriculture	N.A.	N.A.	N.A.	1.8	1.7	1.7	1.6	1.6
Industry	N.A.	N.A.	N.A.	29.7	32.3	33.0	33.4	33.2
Services	N.A.	N.A.	N.A.	68.8	65.8	65.3	64.8	64.7
Industrial Production Index (2011=100) *1	N.A.	61.9	75.0	77.1	95.8	100.0	99.8	100.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	67.425	151.950	198.432	203.675	274.601	308.257	301.181	305.441
Imports, c.i.f.	54.786	140.732	182.614	174.371	251.236	281.438	270.473	269.897
Balance of Payments (Billions of Current USD) *3								
Balance on Goods and Services	N.A.	6.404	11.706	31.554	27.576	30.420	36.335	44.068
Current Account	N.A.	8.268	16.481	41.933	38.442	39.908	49.015	55.309
Overall Balance	N.A.	2.477	20.056	54.126	40.173	6.239	15.484	11.318
Foreign Exchange Rate (TWD/USD) *1	27.108	32.992	32.850	32.030	30.368	30.290	29.136	29.950
PPP conversion factor, GDP (TWD/International Dollar) *1	N.A.	N.A.	N.A.	N.A.	18.260	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (2011=100) *2	93.5	112.9	108.2	104.0	102.4	100.0	100.5	101.9
Wholesale Price Index (2011=100) *2	74.0	77.3	84.2	90.9	95.9	100.0	98.8	96.4
Consumer Price Index (2011=100) *2	69.6	89.8	92.9	97.7	98.6	100.0	101.9	102.7
Growth Rate (%) *2								
Real GDP	5.65	6.42	5.42	-1.57	10.63	3.80	2.06	2.23
Population	1.21	0.83	0.36	0.36	0.18	0.27	0.39	0.25
Price								
Wholesale Price Index	-0.59	1.82	0.61	-8.73	5.46	4.32	-1.16	-2.43
Consumer Price Index	4.13	1.25	2.30	-0.86	0.96	1.42	1.93	0.79

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

3.19 Thailand

Energy Balance Table of Thailand

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	4,398	-	17,498	-	-	-	-	-	-
Import	4,894	6,059	45,062	3,231	197	-	13	-	171
Export	-1	-5	-1,668	-14,013	-1,249	-	-1,268	-16	-4,240
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-4,835	-	-	-4,835	-	-
Stock Changes	-	-	-	-	-	-	-	-	-
Total Primary Energy Supply	9,290	6,054	60,892	-15,617	-1,052	-	-6,090	-16	-4,069
Transfers	-	-	-4,196	3,925	-	-	-	-	-
Total Transformation Sector	-7,056	-882	-54,205	58,615	7,394	-	6,149	567	22,142
Main Activity Producer	-4,221	-	-	-370	-	-	-	-	-59
Autoproducers	-2,836	-882	-	-7	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-55,829	58,992	7,394	-	6,149	567	22,201
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	1,624	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-1,190	-653	3,681	-1,135	-151	-	226	-539	-45
Total Final Energy Consumption	1,044	4,519	6,172	45,788	6,190	-	284	12	18,028
Industry Sector	1,044	4,519	-	4,972	87	-	-	9	3,228
Iron and Steel	56	25	-	430	-	-	-	2	186
Chemical & Petrochemical	20	332	-	414	-	-	-	2	113
Non-metallic Minerals	864	3,205	-	337	-	-	-	2	225
Other Industries	103	957	-	3,791	87	-	-	4	2,704
Transport Sector	-	-	-	20,167	6,058	-	284	-	10,938
Domestic Air Transport	-	-	-	284	-	-	284	-	-
Road	-	-	-	18,850	6,058	-	-	-	10,702
Rail	-	-	-	79	-	-	-	-	79
Inland Waterways	-	-	-	954	-	-	-	-	157
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	6,750	45	-	-	3	3,862
Residential	-	-	-	1,923	-	-	-	2	-
Commerce and Public Services	-	-	-	915	-	-	-	-	-
Agriculture	-	-	-	3,912	45	-	-	0	3,862
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	6,172	13,898	-	-	-	-	-
2012									
Indigenous Production	4,798	-	17,497	-	-	-	-	-	-
Import	4,720	7,030	45,074	2,908	250	-	2	-	13
Export	-2	-5	-2,423	-13,808	-1,181	-	-620	-26	-4,673
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-3,937	-	-	-3,937	-	-
Stock Changes	-1,208	-766	201	318	-156	-	-15	-31	699
Total Primary Energy Supply	8,308	6,259	60,349	-14,520	-1,087	-	-4,570	-58	-3,961
Transfers	-	-	-4,106	4,106	-	-	-	-	-
Total Transformation Sector	-6,935	-957	-49,377	50,901	6,881	-	4,833	68	21,830
Main Activity Producer	-6,935	-957	-	-508	-	-	-	-	-35
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-50,530	51,409	6,881	-	4,833	68	21,865
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	1,153	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-31	-1	-196	1	-1	-	0	2	1
Total Final Energy Consumption	1,342	5,301	6,670	40,488	5,793	-	263	12	17,870
Industry Sector	1,342	5,301	-	3,841	125	-	-	10	1,974
Iron and Steel	61	133	-	360	4	-	-	2	108
Chemical & Petrochemical	23	382	-	448	20	-	-	2	122
Non-metallic Minerals	1,129	3,686	-	249	4	-	-	2	131
Other Industries	129	1,101	-	2,785	98	-	-	5	1,614
Transport Sector	-	-	-	20,062	5,620	-	263	-	12,158
Domestic Air Transport	-	-	-	263	-	-	263	-	-
Road	-	-	-	18,796	5,620	-	-	-	11,927
Rail	-	-	-	78	-	-	-	-	78
Inland Waterways	-	-	-	925	-	-	-	-	153
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	7,381	48	-	-	3	3,738
Residential	-	-	-	2,407	-	-	-	2	-
Commerce and Public Services	-	-	-	1,183	-	-	-	-	-
Agriculture	-	-	-	3,791	48	-	-	0	3,738
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	6,670	9,204	-	-	-	-	-

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
-	-	-	-	-	36,897	482	-	112	4,701	-	-	64,088
263	2,296	-	-	290	11,105	-	-	-	-	1,081	-	71,432
-3,701	-7	-	-	-3,531	-	-	-	-	-	-110	-	-15,797
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-4,835
-	-	-	-	-	-	-	-	-	-	-	-	-
-3,439	2,289	-	-	-3,241	48,002	482	-	112	4,701	971	-	114,888
-	3,925	-	-	-	-	-	-	-	-	-	-	-271
5,480	1,628	-	-	15,256	-27,985	-482	-	-112	-4,701	14,489	5,279	-17,042
-311	-	-	-	-	-23,992	-482	-	-112	-	12,222	-	-16,955
-7	-	-	-	-	-1,611	-	-	-	-3,167	2,267	5,279	-957
-	-	-	-	-	-2,382	-	-	-	-	-	-	-2,382
5,797	1,628	-	-	15,256	-	-	-	-	-	-	-	3,162
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,534	-	-	90
-	-	-	-	-	-20,817	-	-	-	-	-1,468	-	-22,285
-287	-1,268	-	-	930	8,729	-	-	-	-	193	-5,279	4,346
1,754	6,574	-	-	12,945	7,928	-	-	0	-	14,185	-	79,636
952	695	-	-	-	2,653	-	-	-	-	5,830	-	19,018
136	106	-	-	-	282	-	-	-	-	2,050	-	2,844
81	217	-	-	-	609	-	-	-	-	923	-	2,299
40	70	-	-	-	746	-	-	-	-	586	-	5,737
694	302	-	-	-	1,016	-	-	-	-	2,271	-	8,138
797	2,090	-	-	-	2,734	-	-	-	-	14	-	22,916
-	-	-	-	-	-	-	-	-	-	-	-	284
-	2,090	-	-	-	2,734	-	-	-	-	-	-	21,584
-	-	-	-	-	-	-	-	-	-	14	-	93
797	-	-	-	-	-	-	-	-	-	-	-	954
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
4	2,837	-	-	-	1	-	-	0	-	8,341	-	15,092
-	1,921	-	-	-	-	-	-	-	-	3,250	-	5,173
1	914	-	-	-	1	-	-	0	-	4,937	-	5,853
3	2	-	-	-	-	-	-	-	-	30	-	3,942
-	-	-	-	-	-	-	-	-	-	123	-	123
-	953	-	-	12,945	2,540	-	-	-	-	-	-	22,611
-	-	-	-	-	35,757	743	-	41	3,448	-	-	62,284
344	2,038	-	-	260	9,901	-	-	-	-	888	-	70,521
-3,661	-11	-	-	-3,635	-	-	-	-	-	-164	-	-16,403
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-3,937
-269	-1,404	-	-	1,493	-	-	-	-	-	-	-	-1,455
-3,586	623	-	-	-1,881	45,658	743	-	41	3,448	724	-	111,011
-	4,106	-	-	-	-	-	-	-	-	-	-	-
5,383	1,782	-	-	10,124	-24,164	-743	-	-41	-3,448	14,729	-	-20,036
-473	-	-	-	-	-24,164	-743	-	-41	-	14,729	-	-18,619
-	-	-	-	-	-	-	-	-	-2,295	-	-	-2,295
-	-	-	-	-	-	-	-	-	-	-	-	-
5,856	1,782	-	-	10,124	-	-	-	-	-	-	-	879
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,153	-	-	-
-	-	-	-	-	-14,791	-	-	-	-	-1,582	-	-16,372
-0	-1	-	-	0	-0	-	-	0	-	-0	-	-227
1,796	6,510	-	-	8,243	6,703	-	-	0	-	13,871	-	74,376
1,021	712	-	-	-	2,659	-	-	-	-	5,732	-	18,875
139	108	-	-	-	267	-	-	-	-	1,971	-	2,792
83	222	-	-	-	571	-	-	-	-	907	-	2,330
41	72	-	-	-	768	-	-	-	-	590	-	6,421
759	310	-	-	-	1,052	-	-	-	-	2,264	-	7,331
771	1,249	-	-	-	2,480	-	-	-	-	9	-	22,552
-	-	-	-	-	-	-	-	-	-	-	-	263
-	1,249	-	-	-	2,480	-	-	-	-	-	-	21,277
-	-	-	-	-	-	-	-	-	-	9	-	87
771	-	-	-	-	-	-	-	-	-	-	-	925
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
4	3,589	-	-	-	1	-	-	0	-	8,131	-	15,513
-	2,404	-	-	-	-	-	-	-	-	3,148	-	5,554
1	1,182	-	-	-	1	-	-	0	-	4,844	-	6,029
3	3	-	-	-	-	-	-	-	-	33	-	3,824
-	-	-	-	-	-	-	-	-	-	106	-	106
-	960	-	-	8,243	1,563	-	-	-	-	-	-	17,436

Major Energy Indicators of Thailand

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	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	27,918	60,372	78,337	96,749	106,316	107,079	111,011	114,888
Indigenous Production	11,854	28,559	34,323	50,959	57,473	58,743	62,284	64,088
Import	18,968	40,086	57,234	62,494	65,621	65,013	70,521	71,432
Export	-791	-5,450	-9,024	-12,634	-12,165	-11,183	-16,403	-15,797
Final Energy Consumption	20,196	38,675	52,278	59,418	62,220	63,841	74,376	79,636
Industry	5,917	12,833	17,729	17,580	18,768	18,070	18,875	19,018
Transport	9,452	15,945	20,247	20,999	21,194	21,599	22,552	22,916
Residential	487	5,828	3,513	4,367	4,534	4,872	5,554	5,173
Commerce & Public Services	478	728	3,826	4,927	5,604	5,493	6,029	5,853
Others	3,863	3,341	6,963	11,546	12,120	13,808	21,366	26,676
Coal, Coal Products								
Primary Energy Supply	3,828	7,838	10,680	14,251	15,117	15,836	14,567	15,345
Indigenous Production	3,603	5,196	5,220	4,819	5,012	6,048	4,798	4,398
Import	220	2,655	5,461	10,269	10,768	10,499	11,750	10,953
Export	-	-	-	-17	-13	-4	-7	-6
Transformation Sector	-	-	-4,725	-6,745	-6,820	-8,644	-7,892	-7,938
Power Generation	-2,472	-4,204	-4,725	-6,745	-6,820	-8,644	-7,892	-7,938
Final Energy Consumption	1,357	3,660	6,827	7,502	8,316	7,267	6,643	5,563
Industry	1,356	3,660	6,827	7,502	8,316	7,267	6,643	5,563
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	0	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	12,220	39,400	52,006	58,249	59,437	59,086	60,349	60,892
Indigenous Production	2,112	5,159	12,348	16,573	18,295	17,910	17,497	17,498
Import	10,961	34,062	41,693	43,288	42,757	41,814	45,074	45,062
Export	-767	-514	-3,453	-2,248	-1,589	-1,808	-2,423	-1,668
Transformation Sector	-	-	-46,494	-49,205	-48,436	-47,060	-49,377	-54,205
Petroleum Refineries	-11,806	-38,169	-46,494	-49,205	-49,254	-47,947	-50,530	-55,829
Petroleum Products								
Primary Energy Supply	5,678	-7,243	-9,149	-13,689	-14,198	-13,096	-14,520	-15,617
Import	7,731	1,179	1,980	433	163	2,091	2,908	3,231
Export	-21	-4,919	-5,516	-10,234	-10,423	-9,229	-13,808	-14,013
Transformation Sector	-	-	34,166	40,183	39,422	38,656	50,901	58,615
Power Generation	-2,548	-2,344	-1,967	-172	-263	-453	-508	-377
Petroleum Refineries	11,490	32,193	36,365	40,355	39,684	39,109	51,409	58,992
Final Energy Consumption	15,246	24,420	29,951	29,928	30,324	31,127	40,488	45,788
Industry	2,753	4,335	4,032	2,899	2,818	2,908	3,841	4,972
Transport	9,452	15,939	20,192	19,714	19,576	19,536	20,062	20,167
Residential	487	908	1,310	1,755	1,667	2,040	2,407	1,923
Commerce & Public Services	477	728	570	876	1,204	1,090	1,183	915
Others	2,077	2,510	3,848	4,683	5,060	5,553	12,995	17,810
Natural Gas								
Primary Energy Supply	5,710	19,620	22,788	34,819	42,496	40,784	45,658	48,002
Indigenous Production	5,710	17,685	15,068	26,525	31,189	31,093	35,757	36,897
Import	-	1,935	7,720	8,294	11,307	9,691	9,901	11,105
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-21,185	-22,751	-24,983	-23,064	-24,164	-27,985
Power Generation	-4,216	-14,106	-21,185	-22,751	-24,983	-23,064	-24,164	-25,603
Final Energy Consumption	267	1,389	2,067	4,822	5,053	6,414	6,703	7,928
Industry	266	1,386	2,017	2,346	2,191	2,469	2,659	2,653
Transport	-	2	50	1,280	1,612	2,055	2,480	2,734
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	0	1	2	1	1
Others	0	-	-	1,196	1,250	1,888	1,563	2,540
Electricity								
Power Generation	3,799	8,254	11,369	12,761	13,719	13,324	14,729	14,489
Thermal	3,370	7,734	9,684	10,526	11,561	10,520	11,651	10,729
Hydro	428	518	499	615	476	702	743	482
Nuclear	-	-	-	-	-	-	-	-
Others	1	2	1,187	1,621	1,681	2,101	2,335	3,278
Final Energy Consumption	3,297	7,562	10,387	11,587	12,813	12,759	13,871	14,185
Industry	1,542	3,452	4,853	4,833	5,444	5,425	5,732	5,830
Transport	-	3	5	5	6	9	9	14
Residential	0	0	2,203	2,612	2,867	2,831	3,148	3,250
Commerce & Public Services	0	0	3,256	4,050	4,399	4,400	4,844	4,937
Others	1,755	4,107	70	87	97	94	138	153

Major Economic Indicators of Thailand

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	56.58	62.69	65.86	66.55	66.69	66.90	67.16	67.45
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	134.98	208.74	267.69	295.80	318.91	319.15	339.87	349.69
Real Term (Billions of 2010 Price and 2010 PPP)	353.07	546.01	700.21	773.73	834.17	834.81	888.99	914.69
Nominal (Billions of Current USD)	85.34	122.73	176.35	263.71	318.91	345.67	365.97	387.25
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	2,386	3,330	4,064	4,445	4,782	4,770	5,060	5,184
Real Term (2010 Price and 2010 PPP)	6,240	8,709	10,631	11,627	12,508	12,478	13,236	13,561
Nominal (Current USD)	1,508	1,958	2,678	3,963	4,782	5,167	5,449	5,741
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	2,183.54	4,922.73	7,092.89	9,041.55	10,104.82	10,540.13	11,375.35	11,898.71
Household Final Consumption Expenditure	1,234.98	2,762.93	4,060.41	4,993.30	5,429.68	5,742.85	6,293.51	6,475.85
General Government Final Consumption Expenditure	205.35	557.81	843.65	1,213.93	1,310.03	1,397.53	1,544.33	1,643.46
Gross Fixed Capital Formation	881.76	1,081.42	2,049.82	2,181.82	2,499.31	2,769.02	3,245.93	3,180.87
Stock Change	21.21	42.74	180.34	-261.32	121.38	37.45	137.21	298.35
Exports of Goods and Services	745.29	3,287.28	5,218.08	6,180.05	7,203.30	8,109.95	8,529.21	8,753.51
Imports of Goods and Services	909.46	2,862.31	5,297.47	5,226.53	6,452.51	7,631.79	8,400.22	8,362.56
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	1,945.37	3,008.40	3,858.02	4,263.14	4,596.11	4,599.66	4,898.20	5,039.79
Household Final Consumption Expenditure	1,110.93	1,623.72	2,109.34	2,252.70	2,361.23	2,392.72	2,552.05	2,559.85
General Government Final Consumption Expenditure	171.94	277.13	344.92	429.06	456.38	461.52	496.10	520.36
Gross Fixed Capital Formation	759.87	597.44	902.42	873.73	955.43	986.50	1,116.69	1,094.70
Stock Change	20.65	25.64	76.60	-102.58	37.10	7.47	43.89	91.00
Exports of Goods and Services	709.65	1,947.08	2,554.38	2,764.26	3,170.36	3,471.35	3,578.12	3,728.94
Imports of Goods and Services	806.98	1,497.67	2,155.98	1,988.55	2,416.31	2,747.35	2,918.28	2,986.72
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	13.6	10.3	9.0	9.2	8.3	8.6	8.4	8.3
Industry	37.8	44.4	46.9	46.6	48.7	46.8	47.1	46.0
Services, etc.	48.6	45.3	44.0	44.3	43.0	44.5	44.4	45.8
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.	23,068	69,057	110,936	152,422	193,306	222,576	229,236	228,505
Imports, c.i.f.	33,045	61,924	118,178	133,709	182,921	228,787	249,988	250,407
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	3,392	32,607	29,667	16,991	6,688	6,732
Current Account	N.A.	N.A.	-7,647	21,891	9,946	8,931	-1,458	-3,781
Overall Balance	N.A.	N.A.	-0,675	19,382	35,083	0,590	11,502	-7,860
Foreign Exchange Rate (THB/USD) *1	25.585	40.112	40.220	34.286	31.686	30.492	31.083	30.726
PPP conversion factor, GDP (THB/International Dollar) *1	9.375	11.145	11.147	11.828	12.114	12.370	12.316	12.337
Price Indices								
GDP Deflator (1988=100) *3	112.2	163.6	183.8	212.1	219.9	229.2	232.2	236.1
Producer Prices (2010=100) *2	42.5	60.6	76.5	91.4	100.0	105.4	106.5	106.8
Consumer Price Index (2010=100) *2	49.7	77.3	86.6	96.8	100.0	103.8	106.9	109.3
Growth Rate (%) *3								
Real GDP	11.17	4.75	4.60	-2.33	7.81	0.08	6.49	2.89
Population	1.38	1.16	0.70	0.14	0.22	0.32	0.39	0.43
Price								
Producer Prices	3.45	3.92	9.13	-3.79	9.41	5.45	1.02	0.31
Consumer Price Index	5.86	1.59	4.54	-0.85	3.27	3.81	3.02	2.18

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 Price of Thailand in 2013

Currency Exchange Rate

Currency Exchange Rate	Local currency / USD	
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/ton	5,853	Anthracite			Anthracite	Baht/ton	4,886
Other bituminous coal			Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	Baht/ton	2,645	Sub-bituminous Coal			Sub-bituminous Coal	Baht/ton	2,533
Lignite			Lignite			Lignite		1,328
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	Baht/ton	12,902	Coke			Coke	Baht/ton	13,608
Coal Tar			Coal Tar			Coal Tar		
BKB/PB	bath/Ton	1,759	BKB/PB			BKB/PB	Baht/ton	1,980
			Gas Works Gas			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products			Oil and Oil Products		
Crude Oil	USD / bbl	109.68	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD / bbl	107.53	LPG	Baht/kg	13.69	LPG	Baht/litre	11.55
Naphtha			Naphtha			Naphtha		
Motor Gasoline	USD / bbl	120.68	Motor Gasoline			Motor Gasoline (Gasohol 91)		
Aviation Gasoline	USD / bbl	127.19	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/litre	29.23	Other Kerosene	Baht/litre	35.46
Gas/Diesel Oil	USD / bbl	114.00	Gas/Diesel Oil	Baht/litre	27.90	Gas/Diesel Oil	Baht/litre	29.97
Fuel Oil	USD / bbl	109.48	Fuel Oil	Baht/litre	21.39	Fuel Oil	Baht/litre	27.28
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	USD/mmscf	11.17	Natural Gas			Natural Gas	Baht/MMBTU	394.00
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity	USD/GWh	1.28	Electricity			Others	Baht/GWh	3.79
Other Energy Products			Other Energy Products			Other Energy Products		
			UPG95	Baht/litre	44.52	UPG95	Baht/litre	46.74
			UPG91	Baht/litre	37.07	UPG91	Baht/litre	45.60
			Gasohol 95 (E10)	Baht/litre	37.40	Gasohol 95 (E10)	Baht/litre	38.96
			Gasohol 95 (E20)	Baht/litre	31.72	Gasohol 95 (E20)	Baht/litre	33.90
			Gasohol 91 (E10)	Baht/litre	35.65	Gasohol 91 (E10)	Baht/litre	36.51
			LSD	Baht/litre	30.22	Gasohol 95 (E85)	Baht/litre	22.83
						LSD	Baht/litre	27.04

3.20 United States

Energy Balance Table of the United States

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2013									
Indigenous Production	477,186	-	476,179	12	-	-	-	-	-
Import	4,970	86	438,533	66,132	32,185	1,392	4,396	45	8,993
Export	-67,555	-524	-30,119	-139,020	-23,225	-	-7,767	-305	-56,259
International Marine Bunkers	-	-	-	-15,260	-	-	-	-	-1,856
International Aviation Bunkers	-	-	-	-21,796	-	-	-21,796	-	-
Stock Changes	18,410	-168	5,206	715	296	34	262	-17	554
Total Primary Energy Supply	433,011	-605	889,799	-109,217	9,255	1,426	-24,905	-277	-48,568
Transfers	-	-	-58,043	60,016	1,855	-	-454	20	220
Total Transformation Sector	-411,919	4,647	-827,898	845,021	384,731	11,007	73,889	456	237,243
Main Activity Producer	-392,865	-172	-	-6,002	-	-	-84	-58	-1,309
Autoproducers	-2,495	-781	-	-584	-	-	-	-	-37
Gas Processing	-1,817	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-858,016	851,606	384,731	11,007	73,973	514	238,588
Coal Transformation	-14,743	5,600	-	-	-	-	-	-	-
Other Transformation	-	-	30,118	-	-	-	-	-	-
Loss & Own Use	-191	-1,521	-	-36,901	-1,480	-	-27	-	-7,433
Discrepancy	-3,212	-1	-1,408	835	764	-	11	0	143
Total Final Energy Consumption	17,689	2,520	2,450	759,753	395,126	12,433	48,515	199	181,604
Industry Sector	16,920	2,520	-	21,984	380	-	-	-	11,478
Iron and Steel	-	1,612	-	508	-	-	-	-	53
Chemical & Petrochemical	3,915	-	-	2,518	-	-	-	-	694
Non-metallic Minerals	5,600	-	-	1,822	-	-	-	-	153
Other Industries	7,406	909	-	17,136	380	-	-	-	10,579
Transport Sector	-	-	-	587,420	388,355	-	48,515	-	147,775
Domestic Air Transport	-	-	-	49,038	523	-	48,515	-	-
Road	-	-	-	517,383	383,091	-	-	-	132,200
Rail	-	-	-	12,303	-	-	-	-	12,303
Inland Waterways	-	-	-	8,696	4,741	-	-	-	3,272
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	768	-	-	47,681	6,391	-	-	199	19,970
Residential	-	-	-	19,568	-	-	-	173	5,694
Commerce and Public Services	768	-	-	10,682	1,094	-	-	26	4,193
Agriculture	-	-	-	17,432	5,298	-	-	-	10,083
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	2,450	102,668	-	12,433	-	-	2,381
2012									
Indigenous Production	495,485	-	407,505	80	-	-	-	-	-
Import	5,109	709	483,420	68,288	32,756	1,456	3,087	49	6,941
Export	-73,147	-609	-13,863	-134,714	-23,328	-	-6,568	-304	-50,127
International Marine Bunkers	-	-	-	-15,409	-	-	-	-	-3,117
International Aviation Bunkers	-	-	-	-21,342	-	-	-21,342	-	-
Stock Changes	-2,390	87	-4,586	1,966	-831	-6	105	92	2,189
Total Primary Energy Supply	425,057	187	872,477	-101,131	8,597	1,450	-24,717	-163	-44,114
Transfers	-	-	-48,613	50,573	2,157	-	-349	-65	166
Total Transformation Sector	-397,577	4,140	-818,048	830,044	377,832	9,478	72,628	413	227,595
Main Activity Producer	-378,904	-191	-	-5,085	-	-	-102	-26	-1,237
Autoproducers	-2,447	-973	-	-697	-	-	-1	-	-39
Gas Processing	-1,969	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-845,260	835,826	377,832	9,478	72,731	439	228,871
Coal Transformation	-14,258	5,304	-	-	-	-	-	-	-
Other Transformation	-	-	27,212	-	-	-	-	-	-
Loss & Own Use	-206	-1,674	-	-35,241	-1,451	-	-56	-	-6,125
Discrepancy	-9,810	-0	-3,640	436	739	3	-1	-2	11
Total Final Energy Consumption	17,464	2,653	2,175	744,682	387,873	10,931	47,504	183	177,532
Industry Sector	16,563	2,653	-	20,357	370	-	-	-	10,853
Iron and Steel	-	1,716	-	479	-	-	-	-	59
Chemical & Petrochemical	3,988	-	-	2,189	-	-	-	-	735
Non-metallic Minerals	5,320	-	-	2,020	-	-	-	-	234
Other Industries	7,255	937	-	15,669	370	-	-	-	9,825
Transport Sector	-	-	-	579,949	382,276	-	47,504	-	144,727
Domestic Air Transport	-	-	-	48,103	599	-	47,504	-	-
Road	-	-	-	509,010	377,132	-	-	-	129,791
Rail	-	-	-	12,132	-	-	-	-	12,132
Inland Waterways	-	-	-	10,704	4,545	-	-	-	2,804
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	902	-	-	55,719	5,227	-	-	183	21,953
Residential	-	-	-	28,068	-	-	-	156	6,864
Commerce and Public Services	902	-	-	12,988	1,037	-	-	27	5,448
Agriculture	-	-	-	14,662	4,190	-	-	-	9,641
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	2,175	88,658	-	10,931	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	12	567,012	23,294	214,214	26,230	97,496	-	-	1,881,624
13,564	-	-	-	5,558	66,733	-	-	-	-	6,051	-	582,504
-19,407	-	-	-	-32,057	-35,994	-	-	-	-	-976	-	-274,189
-13,404	-	-	-	-	-	-	-	-	-	-	-	-15,260
-	-	-	-	-	-	-	-	-	-	-	-	-21,796
-621	342	-	8	-143	12,183	-	-	-	-	-	-	36,347
-19,868	342	-	8	-26,630	609,933	23,294	214,214	26,230	97,496	5,074	-	2,189,230
235	34,495	-	24,964	-1,320	-	-	-	-	-	-	-	1,973
22,499	11,686	17,469	171	85,869	-205,926	-23,294	-214,214	-24,567	-51,642	368,674	10,830	-530,289
-1,772	-	-	-	-2,780	-190,456	-22,990	-214,214	-23,978	-14,459	353,385	10,830	-500,922
-64	-	-	-	-483	-16,480	-304	-	-589	-7,064	15,289	-	-13,008
-	-	-	-	-	1,010	-	-	-	-	-	-	-806
24,335	11,686	17,469	171	89,132	-	-	-	-	-	-	-	-6,410
-	-	-	-	-	-	-	-	-	-	-	-	-9,143
-	-	-	-	-	-	-	-	-	-30,118	-	-	-
-387	-111	-15,658	-11	-11,796	-69,650	-	-	-	-	-49,755	-4,961	-162,980
-10	-	0	-0	-73	-1,382	-0	-	-0	0	1,273	0	-3,895
2,470	46,413	1,811	25,133	46,050	332,975	-	-	1,663	45,855	325,265	5,868	1,494,038
1,101	7,000	-	-	2,025	107,392	-	-	106	32,618	72,798	4,637	258,975
101	200	-	-	154	8,698	-	-	-	-	4,034	170	15,022
286	1,538	-	-	-	30,164	-	-	-	322	9,597	2,841	49,357
3	809	-	-	858	7,317	-	-	-	430	2,653	3	17,827
712	4,453	-	-	1,013	61,213	-	-	106	31,866	56,513	1,622	176,770
683	1,540	-	553	-	20,853	-	-	-	-	622	-	608,895
-	-	-	-	-	-	-	-	-	-	-	-	49,038
-	1,540	-	553	-	784	-	-	-	-	52	-	518,219
-	-	-	-	-	-	-	-	-	-	570	-	12,873
683	-	-	-	-	-	-	-	-	-	-	-	8,696
-	-	-	-	-	20,069	-	-	-	-	-	-	20,069
-	-	-	-	-	-	-	-	-	-	-	-	-
686	20,435	-	-	-	190,755	-	-	1,557	13,237	251,845	1,231	507,075
-	13,701	-	-	-	114,581	-	-	1,474	10,773	119,629	-	266,023
675	4,694	-	-	-	74,901	-	-	83	2,124	115,102	1,231	204,891
11	2,040	-	-	-	1,273	-	-	-	340	2,554	-	21,599
-	-	-	-	-	-	-	-	-	-	14,561	-	14,561
-	17,438	1,811	24,580	44,025	13,975	-	-	-	-	-	-	119,093
-	-	-	-	80	558,375	23,952	208,774	23,417	88,864	-	-	1,806,452
16,155	1,350	-	8	6,484	72,715	-	-	-	-	5,096	-	635,337
-20,721	-	-	-	-33,666	-37,093	-	-	-	-	-1,032	-	-260,456
-12,292	-	-	-	-	-	-	-	-	-	-	-	-15,409
-	-	-	-	-	-	-	-	-	-	-	-	-21,342
559	223	-	91	-455	908	-	-	-	-	-	-	-4,014
-16,299	1,573	-	99	-27,556	594,906	23,952	208,774	23,417	88,864	4,065	-	2,140,567
423	23,148	-	23,941	1,152	-	-	-	-	-	-	-	1,959
24,120	22,010	16,706	463	78,800	-226,256	-23,952	-208,774	-21,714	-49,218	367,286	11,961	-532,106
-1,759	-	-	-	-1,960	-211,211	-23,746	-208,774	-21,216	-14,248	352,324	11,961	-499,090
-67	-	-	-	-590	-16,196	-206	-	-498	-7,764	14,963	-	-13,818
-	-	-	-	-	1,151	-	-	-	-	-	-	-818
25,947	22,010	16,706	463	81,350	-	-	-	-	-	-	-	-9,434
-	-	-	-	-	-	-	-	-	-	-	-	-8,953
-	-	-	-	-	-	-	-	-	-27,205	-	-	7
-628	-219	-14,901	-6	-11,854	-66,056	-	-	-	-	-50,843	-5,425	-159,444
-357	-3	-0	0	47	-2,986	-0	-	0	0	-0	0	-16,000
7,259	46,507	1,805	24,497	40,590	299,608	-	-	1,703	39,647	320,508	6,536	1,434,976
3,498	2,689	-	-	2,947	104,764	-	-	106	27,122	72,748	5,164	249,478
343	77	-	-	-	8,485	-	-	-	-	4,233	190	15,102
828	627	-	-	-	29,426	-	-	-	202	10,320	3,165	49,290
60	310	-	-	1,417	7,138	-	-	-	442	2,642	4	17,566
2,268	1,675	-	-	1,530	59,715	-	-	106	26,479	55,553	1,806	167,520
3,355	2,087	-	-	-	17,669	-	-	-	-	588	-	598,206
-	-	-	-	-	-	-	-	-	-	-	-	48,103
-	2,087	-	-	-	697	-	-	-	-	31	-	509,738
-	-	-	-	-	-	-	-	-	-	557	-	12,689
3,355	-	-	-	-	-	-	-	-	-	-	-	10,704
-	-	-	-	-	16,973	-	-	-	-	-	-	16,973
-	-	-	-	-	-	-	-	-	-	-	-	-
406	27,950	-	-	-	163,541	-	-	1,597	12,524	247,171	1,372	482,825
-	21,049	-	-	-	96,466	-	-	1,514	10,055	118,215	-	254,318
387	6,089	-	-	-	65,833	-	-	83	2,060	113,851	1,372	197,088
19	812	-	-	-	1,242	-	-	-	409	2,646	-	18,959
-	-	-	-	-	-	-	-	-	-	12,459	-	12,459
-	13,782	1,805	24,497	37,643	13,633	-	-	-	-	-	-	104,466

Major Economic Indicators of the United States

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	249.62	282.16	295.52	306.77	309.35	311.72	314.11	316.50
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	9,064.41	12,713.06	14,408.09	14,594.84	14,964.37	15,204.02	15,556.92	15,902.17
Real Term (Billions of 2010 Price and 2010 PPP)	9,064.41	12,713.06	14,408.09	14,594.84	14,964.37	15,204.02	15,556.92	15,902.17
Nominal (Billions of Current USD)	5,979.58	10,284.78	13,093.73	14,418.74	14,964.37	15,517.93	16,163.16	16,768.05
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	36,312	45,056	48,756	47,576	48,374	48,774	49,527	50,244
Real Term (2010 Price and 2010 PPP)	36,312	45,056	48,756	47,576	48,374	48,774	49,527	50,244
Nominal (Current USD)	23,954	36,450	44,308	47,002	48,374	49,781	51,457	52,980
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	5,979.58	10,284.78	13,093.73	14,418.74	14,964.37	15,517.93	16,163.16	16,768.05
Household Final Consumption Expenditure	3,825.63	6,792.39	8,794.11	9,846.97	10,202.20	10,689.30	11,083.14	11,484.34
General Government Final Consumption Expenditure	947.99	1,444.17	1,980.05	2,442.06	2,522.21	2,530.86	2,549.73	2,547.59
Gross Fixed Capital Formation	1,269.27	2,369.47	2,981.17	2,672.71	2,691.11	2,836.00	3,033.72	3,170.25
Stock Change	14.55	54.54	59.58	-147.57	61.53	41.76	64.86	74.06
Exports of Goods and Services	551.87	1,096.83	1,308.90	1,587.74	1,852.33	2,106.37	2,194.15	2,262.22
Imports of Goods and Services	629.73	1,472.63	2,030.08	1,983.18	2,364.99	2,686.36	2,762.46	2,770.41
Real GDP & its Components (Billions of 2005 USD) *1								
Gross Domestic Product	8,237.52	11,553.32	13,093.73	13,263.44	13,599.26	13,817.04	14,137.75	14,451.51
Household Final Consumption Expenditure	5,233.62	7,538.32	8,794.11	9,084.88	9,259.57	9,469.13	9,640.93	9,871.61
General Government Final Consumption Expenditure	1,573.19	1,766.93	1,980.05	2,159.17	2,161.65	2,104.29	2,091.83	2,064.67
Gross Fixed Capital Formation	1,551.63	2,685.14	3,040.75	2,351.84	2,576.44	2,650.46	2,811.91	2,895.21
Stock Change	16.62	61.34	59.58	-136.67	53.93	34.81	52.84	58.85
Exports of Goods and Services	610.89	1,191.94	1,308.90	1,503.86	1,682.74	1,798.02	1,856.55	1,913.11
Imports of Goods and Services	676.81	1,628.61	2,030.08	1,860.26	2,096.80	2,211.54	2,263.07	2,289.01
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	1.0	1.1	1.2	1.2	1.1	1.0	1.1
Industry	N.A.	22.0	20.5	19.4	19.4	19.3	19.3	19.2
Services, etc.	N.A.	70.8	71.7	72.6	72.2	72.3	72.1	71.7
Industrial Production Index (2010=100) *2	68.3	101.7	105.5	94.7	100.0	103.0	106.0	108.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	393.592	781.918	901.082	1,056.043	1,278.495	1,482.508	1,545.703	1,579.593
Imports, c.i.f.	516.987	1,259.300	1,732.706	1,605.296	1,969.184	2,266.024	2,336.524	2,329.060
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.111	-0.447	-0.783	-0.510	-0.649	-0.741	-0.741	-0.703
Current Account	-0.079	-0.411	-0.745	-0.384	-0.442	-0.460	-0.450	-0.377
Overall Balance	-0.026	0.067	-0.046	-0.101	-0.003	0.070	0.003	0.016
Foreign Exchange Rate (USD/USD) *1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PPP conversion factor, GDP (USD/International Dollar) *1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Price Indices								
GDP Deflator (2005=100) *3	72.6	89.0	100.0	108.7	110.0	112.3	114.3	116.0
Producer Prices Index (2010=100) *2	62.9	71.8	85.2	93.6	100.0	108.8	109.4	110.1
Consumer Price Index *1	59.9	79.0	89.6	98.4	100.0	103.2	105.3	106.8
Growth Rate (%) *3								
Real GDP	1.92	4.09	3.35	-2.78	2.53	1.60	2.32	2.22
Population	1.14	1.12	0.93	0.88	0.84	0.77	0.77	0.76
Price								
Producer Prices Index	3.56	5.78	7.32	-8.80	6.84	8.83	0.55	0.62
Consumer Price Index	5.40	3.38	3.39	-0.36	1.64	3.16	2.07	1.46

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

Major Economic Indicators of the United States

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	249.62	282.16	295.52	306.77	309.35	311.72	314.11	316.50
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	9,064.41	12,713.06	14,408.09	14,594.84	14,964.37	15,204.02	15,556.92	15,902.17
Real Term (Billions of 2010 Price and 2010 PPP)	9,064.41	12,713.06	14,408.09	14,594.84	14,964.37	15,204.02	15,556.92	15,902.17
Nominal (Billions of Current USD)	5,979.58	10,284.78	13,093.73	14,418.74	14,964.37	15,517.93	16,163.16	16,768.05
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	36,312	45,056	48,756	47,576	48,374	48,774	49,527	50,244
Real Term (2010 Price and 2010 PPP)	36,312	45,056	48,756	47,576	48,374	48,774	49,527	50,244
Nominal (Current USD)	23,954	36,450	44,308	47,002	48,374	49,781	51,457	52,980
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	5,979.58	10,284.78	13,093.73	14,418.74	14,964.37	15,517.93	16,163.16	16,768.05
Household Final Consumption Expenditure	3,825.63	6,792.39	8,794.11	9,846.97	10,202.20	10,689.30	11,083.14	11,484.34
General Government Final Consumption Expenditure	947.99	1,444.17	1,980.05	2,442.06	2,522.21	2,530.86	2,549.73	2,547.59
Gross Fixed Capital Formation	1,269.27	2,369.47	2,981.17	2,672.71	2,691.11	2,836.00	3,033.72	3,170.25
Stock Change	14.55	54.54	59.58	-147.57	61.53	41.76	64.86	74.06
Exports of Goods and Services	551.87	1,096.83	1,308.90	1,587.74	1,852.33	2,106.37	2,194.15	2,262.22
Imports of Goods and Services	629.73	1,472.63	2,030.08	1,983.18	2,364.99	2,686.36	2,762.46	2,770.41
Real GDP & its Components (Billions of 2005 USD) *1								
Gross Domestic Product	8,237.52	11,553.32	13,093.73	13,263.44	13,599.26	13,817.04	14,137.75	14,451.51
Household Final Consumption Expenditure	5,233.62	7,538.32	8,794.11	9,084.88	9,259.57	9,469.13	9,640.93	9,871.61
General Government Final Consumption Expenditure	1,573.19	1,766.93	1,980.05	2,159.17	2,161.65	2,104.29	2,091.83	2,064.67
Gross Fixed Capital Formation	1,551.63	2,685.14	3,040.75	2,351.84	2,576.44	2,650.46	2,811.91	2,895.21
Stock Change	16.62	61.34	59.58	-136.67	53.93	34.81	52.84	58.85
Exports of Goods and Services	610.89	1,191.94	1,308.90	1,503.86	1,682.74	1,798.02	1,856.55	1,913.11
Imports of Goods and Services	676.81	1,628.61	2,030.08	1,860.26	2,096.80	2,211.54	2,263.07	2,289.01
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	1.0	1.1	1.2	1.2	1.1	1.0	1.1
Industry	N.A.	22.0	20.5	19.4	19.4	19.3	19.3	19.2
Services, etc.	N.A.	70.8	71.7	72.6	72.2	72.3	72.1	71.7
Industrial Production Index (2010=100) *2	68.3	101.7	105.5	94.7	100.0	103.0	106.0	108.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	393.592	781.918	901.082	1,056.043	1,278.495	1,482.508	1,545.703	1,579.593
Imports, c.i.f.	516.987	1,259.300	1,732.706	1,605.296	1,969.184	2,266.024	2,336.524	2,329.060
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.111	-0.447	-0.783	-0.510	-0.649	-0.741	-0.741	-0.703
Current Account	-0.079	-0.411	-0.745	-0.384	-0.442	-0.460	-0.450	-0.377
Overall Balance	-0.026	0.067	-0.046	-0.101	-0.003	0.070	0.003	0.016
Foreign Exchange Rate (USD/USD) *1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Purchasing Power Parity (USD/International Dollar) *1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Price Indices								
GDP Deflator (2005=100) *3	72.6	89.0	100.0	108.7	110.0	112.3	114.3	116.0
Producer Prices Index (2010=100) *2	62.9	71.8	85.2	93.6	100.0	108.8	109.4	110.1
Consumer Price Index *1	59.9	79.0	89.6	98.4	100.0	103.2	105.3	106.8
Growth Rate (%) *3								
Real GDP	1.92	4.09	3.35	-2.78	2.53	1.60	2.32	2.22
Population	1.14	1.12	0.93	0.88	0.84	0.77	0.77	0.76
Price								
Producer Prices Index	3.56	5.78	7.32	-8.80	6.84	8.83	0.55	0.62
Consumer Price Index	5.40	3.38	3.39	-0.36	1.64	3.16	2.07	1.46

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

3.21 Viet Nam

Energy Balance Table of Viet Nam

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2012									
Indigenous Production	23,734	-	17,518	-	-	-	-	-	-
Import	963	-	-	10,738	2,951	-	1,008	30	4,650
Export	-8,521	-	-9,643	-1,720	-350	-	-225	-5	-851
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-392	-	-1,340	91	19	-	-2	47	22
Total Primary Energy Supply	15,785	-	6,534	9,109	2,619	-	781	72	3,820
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-6,106	-	-6,534	5,787	2,176	-	56	-	2,880
Main Activity Producer	-6,106	-	-	-126	-	-	-	-	-31
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-6,534	5,914	2,176	-	56	-	2,911
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-	0	0	-	-	0	-0
Total Final Energy Consumption	9,678	-	-	14,896	4,795	-	837	72	6,700
Industry Sector	8,299	-	-	1,611	-	-	-	9	1,083
Iron and Steel	361	-	-	66	-	-	-	0	51
Chemical & Petrochemical	188	-	-	75	-	-	-	1	59
Non-metallic Minerals	-	-	-	98	-	-	-	1	56
Other Industries	7,750	-	-	1,371	-	-	-	8	917
Transport Sector	-	-	-	10,701	4,675	-	837	-	4,991
Domestic Air Transport	-	-	-	837	-	-	837	-	-
Road	-	-	-	9,666	4,675	-	-	-	4,991
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	198	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	1,379	-	-	2,020	120	-	-	63	626
Residential	1,084	-	-	865	-	-	-	53	36
Commerce and Public Services	277	-	-	684	-	-	-	10	241
Agriculture	18	-	-	471	120	-	-	-	348
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	565	-	-	-	-	-
2011									
Indigenous Production	26,102	-	15,959	-	-	-	-	-	-
Import	766	-	-	12,257	3,061	-	978	17	5,432
Export	-9,611	-	-8,536	-2,175	-352	-	-369	-11	-1,107
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-1,652	-	-1,007	23	-15	-	-4	74	-30
Total Primary Energy Supply	15,605	-	6,415	10,105	2,695	-	605	80	4,295
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-5,510	-	-6,415	5,192	2,051	-	85	-	2,751
Main Activity Producer	-5,510	-	-	-594	-	-	-	-	-173
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-6,415	5,786	2,051	-	85	-	2,924
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-0	-0	0	-	-	0	-0
Total Final Energy Consumption	10,095	-	-	15,297	4,745	-	690	80	7,047
Industry Sector	8,559	-	-	1,869	-	-	-	11	1,154
Iron and Steel	373	-	-	76	-	-	-	0	54
Chemical & Petrochemical	194	-	-	86	-	-	-	1	63
Non-metallic Minerals	-	-	-	114	-	-	-	1	59
Other Industries	7,993	-	-	1,593	-	-	-	10	978
Transport Sector	-	-	-	10,818	4,607	-	690	-	5,229
Domestic Air Transport	-	-	-	690	-	-	690	-	-
Road	-	-	-	9,835	4,607	-	-	-	5,229
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	292	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	1,535	-	-	2,110	139	-	-	69	664
Residential	1,138	-	-	887	-	-	-	57	39
Commerce and Public Services	378	-	-	712	-	-	-	12	257
Agriculture	20	-	-	511	139	-	-	-	368
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	501	-	-	-	-	-

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
-	-	-	-	-	8,253	4,541	-	-	-	-	-	54,046
815	718	-	-	566	-	-	-	-	-	230	-	11,932
-277	-10	-	-	-1	-	-	-	-	-	-105	-	-19,990
-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-1,641
544	708	-	-	565	8,253	4,541	-	-	-	125	-	44,347
-	-	-	-	-	-	-	-	-	-	-	-	-
-37	713	-	-	-	-6,815	-4,541	-	-	-	10,114	-	-8,095
-95	-	-	-	-	-6,815	-4,541	-	-	-	10,114	-	-7,475
-	-	-	-	-	-	-	-	-	-	-	-	-
58	713	-	-	-	-	-	-	-	-	-	-	-620
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	-	-	-	-0	-	-	-	-	-1,173	-	-1,173
0	0	-	-	-	-0	-	-	-	-	-0	-	-0
507	1,421	-	-	565	1,438	-	-	-	-	9,065	-	35,078
300	218	-	-	-	1,438	-	-	-	-	4,758	-	16,106
11	4	-	-	-	-	-	-	-	-	341	-	768
12	3	-	-	-	1,438	-	-	-	-	302	-	2,002
18	24	-	-	-	-	-	-	-	-	1,009	-	1,107
259	187	-	-	-	-	-	-	-	-	3,106	-	12,228
198	-	-	-	-	-	-	-	-	-	-	-	10,701
-	-	-	-	-	-	-	-	-	-	-	-	837
-	-	-	-	-	-	-	-	-	-	-	-	9,666
-	-	-	-	-	-	-	-	-	-	-	-	-
198	-	-	-	-	-	-	-	-	-	-	-	198
-	-	-	-	-	-	-	-	-	-	-	-	-
9	1,203	-	-	-	-	-	-	-	-	4,307	-	7,707
2	775	-	-	-	-	-	-	-	-	3,301	-	5,250
5	428	-	-	-	-	-	-	-	-	878	-	1,839
3	-	-	-	-	-	-	-	-	-	128	-	617
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	565	-	-	-	-	-	-	-	565
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	7,560	3,520	-	-	-	-	-	53,141
1,456	813	-	-	501	-	-	-	-	-	427	-	13,450
-320	-16	-	-	-	-	-	-	-	-	-93	-	-20,416
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-3	-	-	-	-	-	-	-	-	-	-	-	-2,636
1,132	797	-	-	501	7,560	3,520	-	-	-	333	-	43,539
-	-	-	-	-	-	-	-	-	-	-	-	-
-343	647	-	-	-	-6,711	-3,520	-	-	-	8,925	-	-8,039
-421	-	-	-	-	-6,711	-3,520	-	-	-	8,925	-	-7,410
-	-	-	-	-	-	-	-	-	-	-	-	-
78	647	-	-	-	-	-	-	-	-	-	-	-629
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	-0	-	-	-0	0	-	-	-	-	-1,116	-	-1,116
0	-0	-	-	-0	0	-	-	-	-	-0	-	-0
790	1,444	-	-	501	849	-	-	-	-	8,142	-	34,382
481	222	-	-	-	849	-	-	-	-	4,308	-	15,585
17	5	-	-	-	-	-	-	-	-	309	-	757
19	3	-	-	-	849	-	-	-	-	273	-	1,401
29	24	-	-	-	-	-	-	-	-	913	-	1,027
415	190	-	-	-	-	-	-	-	-	2,812	-	12,399
292	-	-	-	-	-	-	-	-	-	-	-	10,818
-	-	-	-	-	-	-	-	-	-	-	-	690
-	-	-	-	-	-	-	-	-	-	-	-	9,835
-	-	-	-	-	-	-	-	-	-	-	-	-
292	-	-	-	-	-	-	-	-	-	-	-	292
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17	1,222	-	-	-	-	-	-	-	-	3,834	-	7,479
3	789	-	-	-	-	-	-	-	-	2,943	-	4,967
9	433	-	-	-	-	-	-	-	-	798	-	1,889
5	-	-	-	-	-	-	-	-	-	93	-	624
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	501	-	-	-	-	-	-	-	501

Major Energy Indicators of Viet Nam

ktoe

	1990	2000	2005	2009	2010	2011	2012	2013
Total								
Primary Energy Supply	5,414	14,841	25,769	39,600	43,478	43,539	44,347	-
Indigenous Production	5,811	25,777	45,190	51,477	50,886	53,141	54,046	-
Import	2,947	8,885	12,331	15,667	13,506	13,450	11,932	-
Export	-3,125	-18,650	-30,064	-29,454	-21,315	-20,416	-19,990	-
Final Energy Consumption	4,212	11,927	20,905	32,071	33,545	34,382	35,078	-
Industry	1,713	4,653	8,235	13,724	14,517	15,585	16,106	-
Transport	1,412	3,763	6,898	10,274	10,071	10,818	10,701	-
Residential	481	1,878	3,262	4,414	4,913	4,967	5,250	-
Commerce & Public Services	334	1,095	1,665	1,646	1,650	1,889	1,839	-
Others	272	537	846	2,013	2,394	1,125	1,182	-
Coal, Coal Products								
Primary Energy Supply	2,212	4,372	7,082	12,645	14,730	15,605	15,785	-
Indigenous Production	2,597	6,501	18,142	24,480	24,646	26,102	23,734	-
Import	-	-	57	508	656	766	963	-
Export	-442	-1,821	-10,072	-13,995	-11,104	-9,611	-8,521	-
Transformation Sector	-	-	-2,132	-3,680	-4,837	-5,510	-6,106	-
Power Generation	-888	-1,150	-2,132	-3,680	-4,837	-5,510	-6,106	-
Final Energy Consumption	1,324	3,223	4,950	8,966	9,893	10,095	9,678	-
Industry	1,019	2,339	3,734	7,506	8,306	8,559	8,299	-
Transport	14	-	-	-	-	-	-	-
Residential	207	584	861	1,089	1,204	1,138	1,084	-
Commerce & Public Services	19	276	333	350	364	378	277	-
Others	64	24	22	21	20	20	18	-
Crude Oil								
Primary Energy Supply	-	20	674	2,696	6,968	6,415	6,534	-
Indigenous Production	2,750	16,584	19,609	17,317	15,746	15,959	17,518	-
Import	-	-	-	-	-	-	-	-
Export	-2,664	-15,701	-18,290	-13,614	-8,279	-8,536	-9,643	-
Transformation Sector	-	-	-	-1,972	-6,968	-6,415	-6,534	-
Petroleum Refineries	-	-	-	-1,972	-6,968	-6,415	-6,534	-
Petroleum Products								
Primary Energy Supply	2,737	7,757	11,859	14,259	10,888	10,105	9,109	-
Import	2,947	8,885	12,274	14,806	12,368	12,257	10,738	-
Export	-19	-1,128	-415	-1,813	-1,850	-2,175	-1,720	-
Transformation Sector	-	-	-678	868	4,809	5,192	5,787	-
Power Generation	-381	-1,310	-678	-646	-1,161	-594	-126	-
Petroleum Refineries	-	-	-	1,515	5,970	5,786	5,914	-
Final Energy Consumption	2,356	6,759	11,855	15,851	15,697	15,297	14,896	-
Industry	449	1,515	2,499	2,146	1,799	1,869	1,611	-
Transport	1,393	3,742	6,898	10,274	10,071	10,818	10,701	-
Residential	76	336	727	816	859	887	865	-
Commerce & Public Services	265	690	958	683	675	712	684	-
Others	174	476	774	1,931	2,293	1,012	1,036	-
Natural Gas								
Primary Energy Supply	3	1,440	4,649	7,101	8,124	7,560	8,253	-
Indigenous Production	3	1,440	5,935	7,101	8,124	7,560	8,253	-
Import	-	-	-	-	-	-	-	-
Export	-	-	-1,286	-	-	-	-	-
Transformation Sector	-	-	-4,549	-6,462	-7,631	-6,711	-6,815	-
Power Generation	-3	-1,102	-4,549	-6,462	-7,631	-6,711	-6,815	-
Final Energy Consumption	-	18	100	639	493	849	1,438	-
Industry	-	18	100	639	493	849	1,438	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	746	2,284	4,598	6,837	8,163	8,925	10,114	-
Thermal	285	1,033	3,093	4,258	5,793	5,405	5,572	-
Hydro	462	1,251	1,505	2,578	2,370	3,520	4,541	-
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Final Energy Consumption	532	1,927	3,967	6,616	7,462	8,142	9,065	-
Industry	245	782	1,870	3,434	3,920	4,308	4,758	-
Transport	5	21	-	-	-	-	-	-
Residential	198	958	1,674	2,509	2,850	2,943	3,301	-
Commerce & Public Services	50	130	374	613	611	798	878	-
Others	34	37	49	60	81	93	128	-

Major Economic Indicators of Viet Nam

	1990	2000	2005	2009	2010	2011	2012	2013
Population (Millions) *1	66.02	77.63	82.39	86.03	86.93	87.84	88.77	89.71
Gross Domestic Product *3								
Real Term (Billions of 2010 Price and 2010 USD)	29.46	61.15	85.35	108.93	115.93	123.17	129.63	136.66
Real Term (Billions of 2010 Price and 2010 PPP)	97.10	201.54	281.32	359.05	382.11	405.96	427.26	450.43
Nominal (Billions of Current USD)	6.47	33.64	57.63	106.01	115.93	135.54	155.82	171.22
GDP per Capita *3								
Real Term (2010 Price and 2010 USD)	446	788	1,036	1,266	1,334	1,402	1,460	1,523
Real Term (2010 Price and 2010 PPP)	1,471	2,596	3,414	4,174	4,396	4,622	4,813	5,021
Nominal (Current USD)	98	433	699	1,232	1,334	1,543	1,755	1,909
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	41,955	476,606	914,001	1,809,148	2,157,828	2,779,881	3,245,419	3,584,262
Household Final Consumption Expenditure	35,559	293,507	598,567	1,239,151	1,436,289	1,844,377	2,093,261	2,346,160
General Government Final Consumption Expenditure	5,177	28,346	49,952	104,539	129,313	164,323	192,362	220,642
Gross Fixed Capital Formation	N.A.	122,101	285,841	612,526	704,401	745,494	785,337	853,739
Stock Change	N.A.	8,670	22,702	59,800	65,810	81,538	98,823	102,385
Exports of Goods and Services	15,120	238,142	582,214	1,139,253	1,553,687	2,206,971	2,597,264	2,997,380
Imports of Goods and Services	18,996	253,927	612,521	1,326,810	1,730,902	2,321,858	2,483,567	2,920,030
Real GDP & its Components (Billions of 2010 VND) *1								
Gross Domestic Product	548,308	1,138,111	1,588,646	2,027,591	2,157,828	2,292,483	2,412,778	2,543,596
Household Final Consumption Expenditure	N.A.	732,706	1,022,157	1,327,607	1,436,289	1,495,133	1,568,084	1,649,311
General Government Final Consumption Expenditure	N.A.	59,998	84,251	115,168	129,313	138,254	148,481	159,261
Gross Fixed Capital Formation	N.A.	243,269	412,327	635,201	704,401	649,365	661,526	696,578
Stock Change	N.A.	15,311	31,434	62,413	65,810	68,448	73,051	78,034
Exports of Goods and Services	73,737	462,350	1,061,162	1,432,630	1,553,687	1,721,244	1,991,636	2,337,663
Imports of Goods and Services	91,438	455,760	1,049,910	1,599,387	1,730,902	1,801,807	1,965,677	2,306,613
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	34	25	22	19	19	18	18	18
Industry	25	35	38	38	38	38	39	39
Services, etc.	42	40	N.A.	43	43	43	43	44
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.	2.404	14.483	32.442	57.096	72.237	96.906	114.529	132.033
Imports, c.i.f.	2.752	15.638	36.761	69.949	84.839	106.750	113.780	132.033
Balance of Payments (Billions of Current USD) *1								
Trade Balance	N.A.	0.375	-2.439	-7.607	-5.136	-0.450	9.885	8.730
Current Account	N.A.	1.106	-0.560	-6.608	-4.276	0.236	9.062	9.471
Overall Balance	N.A.	0.790	2.527	0.564	1.925	6.626	17.337	9.320
Foreign Exchange Rate (VND/USD) *1	6,482.8	14,167.8	15,858.9	17,065.1	18,612.9	20,509.8	20,828.0	20,933.4
PPP conversion factor, GDP (VND/International Dollar) *1	655.0	2,923.2	3,575.1	5,100.2	5,647.1	6,709.2	7,311.0	7,546.6
Price Indices								
GDP Deflator (2010=100) *3	7.7	41.9	57.5	89.2	100.0	121.3	134.5	140.9
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.	48.1	59.9	91.9	100.0	118.7	129.5	138.0
Growth Rate (%) *3								
Real GDP	5.10	6.79	7.55	5.40	6.42	6.24	5.25	5.42
Population	1.92	1.35	1.17	1.06	1.05	1.04	1.06	1.05
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.	-1.71	8.28	7.05	8.86	18.68	9.09	6.59

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

3.22 APEC Region

3.2.2.1 Primary Energy Supply

Primary Energy Supply Table in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	343,920	18,349	431,107	14,955	2,456,051	64	389,764	23,534	43,423
Import	50,884	309	78,069	26,810	507,538	29,410	50,077	450,333	290,441
Export	-260,589	-15,726	-262,663	-1,604	-45,992	-770	-244,060	-27,835	-56,866
International Marine Bunkers	-694	-	-408	-207	-7,713	-8,801	-	-	-8,333
International Aviation Bunkers	-3,372	-88	-826	-630	-6,585	-5,656	-	-	-4,276
Stock Change	-974	3	660	-676	-46,878	-128	-3,861	25,674	-1,285
Total	129,176	2,847	245,940	38,649	2,856,420	14,118	191,920	471,705	263,103
Coal & Coal Products									
Indigenous Production	263,819	-	35,039	1,591	1,938,443	-	264,059	676	808
Import	26	-	5,355	6,178	123,863	8,171	65	117,766	76,825
Export	-217,065	-	-23,421	-662	-7,434	-1	-193,301	-893	-
Stock Change	-1,105	-	399	-464	-36,601	-401	-13,343	124	-312
Total	45,676	-	17,372	6,644	2,018,271	7,769	57,479	117,673	77,320
Crude oil & Petroleum Products									
Indigenous Production	20,093	7,133	195,249	539	212,754	-	47,752	598	605
Import	45,255	309	47,943	17,341	333,781	17,995	49,751	229,297	165,950
Export	-15,524	-6,794	-163,838	-942	-34,397	-621	-18,374	-26,942	-56,866
International Marine Bunkers	-694	-	-408	-207	-7,713	-8,801	-	-	-8,333
International Aviation Bunkers	-3,372	-88	-826	-630	-6,585	-5,656	-	-	-4,276
Stock Change	130	35	262	-257	-10,277	272	9,482	25,552	-508
Total	45,889	594	78,382	15,844	487,563	3,189	88,612	228,505	96,570
Natural Gas									
Indigenous Production	52,123	11,216	130,348	812	112,521	-	66,955	2,651	415
Import	5,603	-	22,297	3,262	49,253	2,307	-	103,270	47,666
Export	-28,000	-8,932	-68,856	-	-2,556	-	-32,384	-	-
Stock Change	-	-32	-	-19	-	-	-	-3	-464
Total	29,727	2,252	83,788	4,055	159,218	2,307	34,571	105,918	47,618
Nuclear Power									
Indigenous Production	-	-	22,756	-	29,086	-	-	3,806	36,167
Hydro Power									
Indigenous Production	1,563	-	33,690	1,697	79,145	0	1,456	6,960	369
Geothermal, Solar, etc									
Indigenous Production	1,266	0	1,067	67	12,621	1	8,649	3,147	393

Primary Energy Supply Table in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	315,784	19,980	417,474	13,028	2,401,931	67	388,007	25,420	46,100
Import	47,270	384	85,704	25,851	474,129	29,027	46,175	449,822	286,933
Export	-234,496	-16,848	-251,136	-874	-41,100	-971	-242,930	-13,810	-58,821
International Marine Bunkers	-859	-	-410	-166	-8,888	-8,448	-	-4,278	-8,524
International Aviation Bunkers	-3,183	-85	-1,006	-712	-6,152	-5,589	-	-6,415	-4,050
Stock Change	1,843	-36	664	80	-32,312	-261	-8,485	-296	1,194
Total	126,358	3,394	251,291	37,208	2,787,607	13,823	182,767	450,442	262,833
Coal & Coal Products									
Indigenous Production	239,898	-	33,481	295	1,916,113	-	264,059	675	932
Import	24	-	6,542	5,949	111,674	7,779	65	112,743	75,571
Export	-195,005	-	-21,116	-	-6,141	-0	-193,301	-988	-
Stock Change	1,738	-	-2	-81	-11,751	-491	-13,343	-562	59
Total	46,655	-	18,905	6,163	2,009,895	7,288	57,479	111,867	76,562
Crude oil & Petroleum Products									
Indigenous Production	23,044	8,448	183,662	531	209,566	-	49,565	689	718
Import	42,249	384	51,270	16,580	322,434	17,851	45,853	234,582	168,509
Export	-16,974	-7,973	-150,844	-874	-30,751	-810	-17,952	-12,822	-58,821
International Marine Bunkers	-859	-	-410	-166	-8,888	-8,448	-	-4,278	-8,524
International Aviation Bunkers	-3,183	-85	-1,006	-712	-6,152	-5,589	-	-6,415	-4,050
Stock Change	104	-24	666	249	-20,561	230	4,858	282	-611
Total	44,382	750	83,338	15,609	465,648	3,234	82,323	212,037	97,222
Natural Gas									
Indigenous Production	45,633	11,532	129,952	1,030	102,976	-	69,434	3,045	391
Import	4,997	-	26,077	3,293	39,430	2,374	-	102,497	42,853
Export	-22,516	-8,875	-73,524	-	-2,691	-	-31,676	-	-
Stock Change	-	-12	-	-36	-	-	-	-16	1,746
Total	28,114	2,644	82,504	4,286	139,715	2,374	37,759	105,526	44,990
Nuclear Power									
Indigenous Production	-	-	24,721	-	25,381	-	-	4,689	39,175
Hydro Power									
Indigenous Production	1,206	-	32,700	1,734	75,001	-	905	6,865	341
Geothermal, Solar, etc									
Indigenous Production	1,042	0	1,040	54	8,254	1	3,473	3,931	265

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

Primary Energy Supply Table in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
91,528	218,104	15,870	1,394	23,184	25,812	1,339,967	670	13,880	64,088	1,881,624	-	7,397,290
51,117	55,288	7,917	2,338	8,438	23,163	27,360	159,314	114,544	71,432	582,504	-	2,587,285
-57,504	-76,516	-3,298	-1,219	-10,276	-2,608	-620,353	-84,291	-17,165	-15,797	-274,189	-	-2,079,320
-348	-812	-305	-	-	-163	-5,079	-41,995	-1,224	-	-15,260	-	-91,343
-2,397	-3,036	-867	-	-	-1,097	-6,073	-7,165	-2,200	-4,835	-21,796	-	-70,899
-1,296	607	-139	47	168	676	-5,263	59	606	-	36,347	-	4,345
81,100	193,635	19,178	2,560	21,515	45,783	730,559	26,592	108,440	114,888	2,189,230	-	7,747,357
1,823	7,260	2,740	-	137	3,743	184,275	-	-	4,398	477,186	-	3,185,998
13,900	4,596	267	-	750	7,608	17,527	266	36,898	10,953	5,056	-	436,071
-326	-4	-1,503	-	-113	-1,795	-91,065	-3	-9	-6	-68,079	-	-605,681
-106	829	56	-	106	447	-2,449	-	-92	-	18,243	-	-34,671
15,290	12,682	1,558	-	880	10,003	108,289	264	36,797	15,345	432,405	-	2,981,717
29,903	150,059	1,855	819	7,354	220	524,200	-	9	17,498	476,192	-	1,692,830
28,473	29,188	7,649	2,338	7,687	15,338	2,690	149,395	61,610	48,293	504,665	-	1,764,947
-22,792	-76,314	-1,794	-1,219	-4,751	-813	-353,589	-84,289	-17,156	-15,680	-169,140	-	-1,071,836
-348	-812	-304	-	-	-163	-5,079	-41,995	-1,224	-	-15,260	-	-91,342
-2,397	-3,036	-867	-	-	-1,097	-6,073	-7,165	-2,200	-4,835	-21,796	-	-70,899
-1,190	-222	-152	47	62	229	-2,039	59	701	-	5,922	-	28,110
31,648	98,863	6,387	1,985	10,352	13,715	160,110	16,006	41,740	45,275	780,582	-	2,251,809
58,880	40,485	4,023	127	11,193	3,066	563,279	-	305	36,897	567,012	-	1,662,309
8,726	21,401	-	-	-	-	6,736	9,653	16,035	11,105	66,733	-	374,047
-34,383	-92	-	-	-5,412	-	-174,112	-0	-	-	-35,994	-	-390,720
-	-	-44	-	-	-	-743	-	-3	-	12,183	-	10,875
33,223	61,794	3,980	127	5,781	3,066	395,161	9,653	16,338	48,002	609,933	-	1,656,511
-	3,075	-	-	-	-	44,980	-	10,851	-	214,214	-	364,936
910	2,408	1,982	86	1,916	862	15,579	-	812	482	23,294	-	173,211
12	5,760	4,118	363	2	8,266	382	-	212	112	26,230	-	72,668

Primary Energy Supply Table in 2012 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
85,883	218,999	15,943	1,330	22,369	23,435	1,315,824	886	13,610	62,284	1,806,452	54,046	7,248,851
44,775	55,918	7,561	1,628	8,050	22,074	27,665	157,455	112,807	70,521	635,337	11,932	2,601,017
-53,067	-78,535	-3,725	-772	-9,931	-2,442	-592,656	-84,311	-16,442	-16,403	-260,456	-19,990	-1,999,717
-57	-930	-304	-	-	-181	-1,795	-41,998	-1,182	-	-15,409	-	-93,429
-2,017	-2,901	-824	-	-	-1,082	-6,605	-6,847	-2,075	-3,937	-21,342	-	-74,821
1,102	-3,351	536	-9	1,565	865	-1,675	-	739	-1,455	-4,014	-1,641	-44,950
76,621	189,200	19,186	2,178	22,053	42,668	740,758	25,184	107,457	111,011	2,140,567	44,347	7,636,952
1,860	7,529	2,879	-	148	3,879	185,108	-	-	4,798	495,485	23,734	3,180,873
14,220	4,375	83	-	456	6,278	18,265	25	35,799	11,750	5,818	963	418,381
-232	-151	-1,583	-	-115	-1,675	-85,180	-0	-76	-7	-73,756	-8,521	-587,847
-52	-2,291	338	-	358	834	-382	-	350	-1,974	-2,303	-392	-29,948
15,796	9,462	1,718	-	846	9,316	117,811	25	36,073	14,567	425,244	15,785	2,981,459
31,321	152,190	2,121	756	6,900	220	521,255	-	10	17,497	407,585	17,518	1,633,595
22,727	32,873	7,475	1,628	7,592	15,627	2,563	148,272	61,072	47,982	551,708	10,738	1,809,971
-26,053	-78,165	-2,142	-772	-5,166	-767	-346,702	-84,311	-16,366	-16,232	-148,577	-11,364	-1,034,437
-57	-930	-304	-	-	-181	-1,795	-41,998	-1,182	-	-15,409	-	-93,429
-2,017	-2,901	-824	-	-	-1,082	-6,605	-6,847	-2,075	-3,937	-21,342	-	-74,821
1,248	-1,061	156	-9	1,207	8	127	-	280	518	-2,620	-1,249	-16,199
27,170	102,006	6,482	1,604	10,534	13,826	168,844	15,117	41,740	45,829	771,346	15,643	2,224,681
51,157	40,357	3,798	127	10,793	3,159	540,793	-	354	35,757	558,375	8,253	1,616,917
7,819	18,615	-	-	-	-	6,606	9,158	15,935	9,901	72,715	-	362,270
-26,755	-68	-	-	-4,650	-	-158,822	-0	-	-	-37,093	-	-366,670
-	-	41	-	-	-	-1,459	-	108	-	908	-	1,281
32,222	58,904	3,839	127	6,143	3,159	387,119	9,157	16,397	45,658	594,906	8,253	1,613,797
-	2,285	-	-	-	-	46,290	-	10,544	-	208,774	-	361,860
796	2,740	1,969	85	1,836	882	14,267	-	740	743	23,952	4,541	171,303
4	5,475	3,976	363	2	8,822	411	-	230	41	23,417	-	60,800

3.2.2 Final Energy Consumption

Final Energy Consumption Table in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	80,278	1,116	210,744	26,581	1,801,957	6,746	140,029	306,530	166,065
Coal & Coal Products	2,796	-	2,653	151	753,027	0	25,054	34,854	7,718
Crude oil & Petroleum Products	41,706	634	95,865	13,541	451,443	2,366	81,149	155,400	84,923
Natural Gas	13,469	211	59,786	1,432	107,615	682	17,697	29,611	24,140
Electricity	17,718	271	41,726	5,605	385,633	3,663	16,129	84,162	41,893
Others	4,591	-	10,714	5,851	104,239	34	-	2,503	7,390
Industry	24,708	156	59,793	9,903	1,054,350	348	60,705	134,837	45,957
Coal & Coal Products	2,630	-	2,190	149	582,366	0	25,054	34,260	6,391
Crude oil & Petroleum Products	4,483	139	7,619	3,321	96,718	101	16,637	50,406	3,479
Natural Gas	7,816	-	27,213	670	48,898	29	13,477	14,938	9,803
Electricity	6,803	16	15,523	3,667	262,726	218	5,537	33,786	21,990
Others	2,976	-	7,248	2,097	63,642	-	-	1,447	4,293
Transport	31,143	447	61,139	8,148	227,499	2,121	48,483	75,945	31,343
Coal & Coal Products	144	-	-	-	2,941	-	-	-	-
Crude oil & Petroleum Products	30,146	447	57,978	8,076	200,620	2,055	48,446	74,021	29,953
Natural Gas	516	-	2,756	28	15,331	-	26	89	1,204
Electricity	337	-	405	44	8,608	67	11	1,835	186
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,262	0	6,310	-	42,047	-	-	3,178	2,146
Coal & Coal Products	-	-	-	-	12,975	-	-	-	-
Crude oil & Petroleum Products	2,052	0	4,624	-	16,865	-	-	2,795	1,161
Natural Gas	19	-	828	-	65	-	-	-	3
Electricity	191	-	856	-	8,831	-	-	307	917
Others	-	-	0	-	3,311	-	-	76	65
Residential & Commercial	17,427	295	56,646	7,663	249,966	4,276	19,149	87,570	40,696
Coal & Coal Products	22	-	14	-	69,525	-	-	593	853
Crude oil & Petroleum Products	1,027	17	5,684	1,489	36,109	210	8,352	23,179	5,091
Natural Gas	4,377	23	25,408	548	34,715	653	216	14,584	13,129
Electricity	10,387	255	22,111	1,873	76,248	3,378	10,581	48,234	18,593
Others	1,615	-	3,428	3,754	33,369	34	-	980	3,029

Final Energy Consumption Table in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	79,397	1,615	208,999	24,973	1,782,323	6,837	131,763	311,663	166,068
Coal & Coal Products	2,687	-	2,692	192	807,239	0	21,836	33,310	9,265
Crude oil & Petroleum Products	41,380	666	97,612	12,589	427,133	2,418	77,432	160,230	84,699
Natural Gas	12,881	673	56,322	1,441	94,741	677	17,532	30,922	22,904
Electricity	18,094	276	42,632	5,351	354,460	3,704	14,963	84,702	41,401
Others	4,355	-	9,742	5,400	98,750	38	-	2,499	7,800
Industry	23,587	203	56,007	9,069	1,085,217	352	57,874	134,580	47,006
Coal & Coal Products	2,515	-	2,336	190	645,927	0	21,836	32,715	7,994
Crude oil & Petroleum Products	4,061	185	7,923	2,946	94,500	102	17,576	50,061	4,145
Natural Gas	7,448	-	25,991	625	41,275	26	13,288	16,147	9,292
Electricity	6,876	18	14,792	3,625	243,330	224	5,175	34,246	21,555
Others	2,686	-	4,964	1,683	60,185	-	-	1,412	4,020
Transport	31,130	451	59,687	7,461	210,781	2,175	44,625	78,169	30,242
Coal & Coal Products	148	-	-	-	2,931	-	-	-	-
Crude oil & Petroleum Products	30,157	451	56,835	7,391	186,718	2,110	44,597	76,340	28,900
Natural Gas	475	-	2,478	29	13,260	-	19	93	1,149
Electricity	350	-	373	41	7,872	65	9	1,737	194
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,237	0	6,009	-	39,766	-	-	3,713	2,033
Coal & Coal Products	-	-	-	-	12,097	-	-	-	-
Crude oil & Petroleum Products	2,026	0	4,404	-	15,717	-	-	3,328	1,166
Natural Gas	12	-	807	-	60	-	-	-	5
Electricity	199	-	797	-	8,708	-	-	309	826
Others	-	-	0	-	3,184	-	-	76	36
Residential & Commercial	17,582	300	56,731	7,412	234,021	4,311	17,691	89,834	41,257
Coal & Coal Products	25	-	16	-	69,281	-	-	595	816
Crude oil & Petroleum Products	1,016	17	6,140	1,490	33,351	206	7,666	25,136	5,629
Natural Gas	4,296	26	23,571	532	31,729	651	247	14,682	12,457
Electricity	10,577	258	22,264	1,673	68,030	3,416	9,779	48,410	18,614
Others	1,669	-	4,740	3,717	31,630	38	-	1,011	3,741

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

Final Energy Consumption Table in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
48,784	118,181	13,228	1,608	17,966	26,704	434,519	15,777	68,513	79,636	1,494,038	-	5,058,998
1,538	5,173	620	-	573	2,196	11,746	129	7,380	5,563	20,209	-	881,380
26,775	72,350	5,930	1,272	10,149	12,249	121,725	10,343	38,732	51,960	762,203	-	2,040,716
9,886	12,131	2,160	-	1,761	67	126,473	1,442	2,809	7,928	332,975	-	752,275
10,585	20,775	3,258	335	3,290	5,295	63,992	3,863	19,491	14,185	325,265	-	1,067,135
-	7,752	1,259	-	2,193	6,897	110,583	-	102	0	53,385	-	317,494
13,638	34,724	4,095	813	4,942	6,299	123,672	11,114	22,664	19,018	258,975	-	1,890,712
1,538	5,035	508	-	573	2,082	8,625	129	7,232	5,563	19,441	-	703,767
2,659	5,773	420	559	1,314	1,281	12,063	8,093	2,527	4,972	21,984	-	244,550
4,634	10,603	988	-	1,052	66	34,151	1,272	1,548	2,653	107,392	-	287,203
4,806	11,824	1,158	254	1,871	1,778	28,956	1,619	11,356	5,830	72,798	-	492,518
-	1,489	1,021	-	133	1,091	39,877	-	-	-	37,361	-	162,674
19,751	51,125	4,584	545	7,279	8,466	93,540	2,357	11,792	22,916	608,895	-	1,317,518
-	-	-	-	-	-	-	-	-	-	-	-	3,085
19,447	51,009	4,578	545	6,751	8,455	59,485	2,133	11,683	20,167	587,420	-	1,223,413
284	19	1	-	527	1	26,267	20	-	2,734	20,853	-	70,656
21	97	5	-	0	10	7,788	204	110	14	622	-	20,364
-	-	-	-	-	-	-	-	-	-	-	-	-
38	3,782	658	-	44	176	9,600	-	161	3,942	21,599	-	95,943
-	-	72	-	-	-	54	-	-	-	-	-	13,102
6	2,898	338	-	44	34	2,859	-	3	3,912	17,432	-	55,024
-	-	32	-	-	-	589	-	-	-	1,273	-	2,810
32	884	199	-	-	141	1,300	-	158	30	2,554	-	16,400
-	-	17	-	-	1	4,798	-	-	-	340	-	8,607
7,398	21,422	2,607	-	4,853	11,154	137,652	2,275	11,218	11,026	470,915	-	1,164,208
-	-	40	-	0	-	2,880	-	-	-	768	-	74,696
1,650	7,712	189	-	1,192	2,004	9,230	116	2,068	2,838	30,249	-	138,406
22	965	287	-	182	-	33,694	149	1,261	1	189,482	-	319,696
5,725	6,482	1,870	-	1,418	3,347	25,949	2,010	7,788	8,187	234,731	-	489,167
-	6,263	221	-	2,060	5,803	65,900	-	102	0	15,685	-	142,243

Final Energy Consumption Table in 2012 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
44,619	117,015	12,937	1,357	16,865	23,502	448,555	12,505	66,023	74,376	1,434,976	35,078	5,001,446
1,744	1,746	569	-	574	1,897	13,251	-	6,921	6,643	20,118	9,678	940,362
22,716	73,796	5,840	1,070	9,527	11,556	117,186	7,588	37,200	47,158	746,857	14,896	1,999,549
10,147	14,445	1,928	-	1,284	1	128,064	1,256	2,661	6,703	299,608	1,438	705,629
10,011	19,763	3,313	287	3,117	5,092	63,665	3,661	19,138	13,871	320,508	9,065	1,037,074
-	7,265	1,287	-	2,362	4,956	126,390	-	103	0	47,886	-	318,833
15,310	30,197	3,973	603	4,494	5,845	131,248	8,595	22,100	18,875	249,478	16,106	1,920,719
1,744	1,746	444	-	574	1,784	8,897	-	6,759	6,643	19,216	8,299	769,618
4,528	5,912	364	396	1,259	1,275	11,291	6,043	2,856	3,841	20,357	1,611	241,231
4,530	10,324	907	-	683	-	34,076	1,095	1,441	2,659	104,764	1,438	276,009
4,509	11,228	1,199	207	1,738	1,726	29,120	1,457	11,043	5,732	72,748	4,758	475,310
-	986	1,057	-	240	1,060	47,863	-	-	-	32,393	-	158,550
15,146	52,411	4,540	507	6,817	8,108	93,630	1,773	11,789	22,552	598,206	10,701	1,290,901
-	-	-	-	-	-	-	-	-	-	-	-	3,079
14,835	52,297	4,533	507	6,314	8,097	58,694	1,545	11,683	20,062	579,949	10,701	1,202,717
291	16	1	-	503	1	27,020	22	-	2,480	17,669	-	65,506
21	97	5	-	0	10	7,916	206	106	9	588	-	19,599
-	-	-	-	-	-	-	-	-	-	-	-	-
967	3,984	656	-	41	146	10,349	-	157	3,824	18,959	617	93,459
-	-	83	-	-	-	58	-	-	-	-	18	12,256
937	3,053	336	-	41	28	3,088	-	3	3,791	14,662	471	53,053
-	-	34	-	-	-	606	-	-	-	1,242	-	2,767
30	930	185	-	-	117	1,314	-	154	33	2,646	128	16,375
-	-	19	-	-	0	5,283	-	-	-	409	-	9,008
7,066	21,816	2,632	-	4,687	8,984	145,758	628	11,142	11,583	451,407	7,089	1,141,931
-	-	42	-	0	-	4,110	-	-	-	902	1,361	77,147
1,591	8,068	194	-	1,087	1,868	8,462	-	2,064	3,590	41,057	1,549	150,184
23	1,005	305	-	99	-	34,660	57	1,220	1	162,299	-	287,858
5,451	6,464	1,881	-	1,378	3,223	25,290	571	7,756	7,992	232,066	4,179	479,270
-	6,278	210	-	2,122	3,893	73,235	-	103	0	15,083	-	147,471

3.22.3 Demand and Supply: 2012

Demand & Supply Table of Coal in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	239,898	-	33,481	295	1,916,113	-	264,059	675	932
Import	-	-	6,319	5,912	111,623	7,779	65	112,229	75,318
Export	-194,620	-	-20,841	-	-5,447	-0	-193,301	-	-
Stock Change	1,717	-	91	-113	-19,060	-491	-13,343	-562	59
Primary Energy Supply	46,996	-	19,051	6,094	2,003,229	7,288	57,479	112,341	76,309
Main Activity Producer	-42,156	-	-15,696	-5,671	-766,111	-7,288	-32,424	-48,982	-47,148
Autoproducers	-	-	-	-	-131,239	-	-	-10,938	-3,114
Coal Transformation	-2,981	-	-2,759	-457	-364,959	-	-9	-35,887	-22,377
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-4,516	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,979	-	1,210	178	676,020	0	21,828	14,654	4,495

Demand & Supply Table of Crude Oil in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	23,044	8,448	183,662	531	209,566	-	49,565	689	718
Import	24,095	8	40,052	8,850	271,027	-	14,672	183,458	131,073
Export	-14,638	-7,896	-127,823	-	-2,432	-	-17,633	-	-356
Stock Change	289	-31	640	125	-9,226	-	1,833	128	-929
Primary Energy Supply	32,791	530	96,531	9,507	468,935	-	48,436	184,275	130,506
Main Activity Producer	-	-	-	-	-109	-	-	-12,879	-
Autoproducers	-	-	-	-	-14	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-33,054	-513	-96,803	-10,677	-469,963	-5	-47,515	-171,005	-137,929
Gas processing	-	-	2,359	-	-	-	-	-	-
Other Transformation	223	-	1,734	11	8,541	5	-	-	8,453
Final Energy Consumption	16	-	-	-	923	-	-	-	-

Demand & Supply Table of Natural Gas in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	45,633	11,532	129,952	1,030	102,976	-	69,434	3,045	391
Import	4,997	-	26,077	3,293	39,430	2,374	-	102,497	42,853
Export	-22,516	-8,875	-73,524	-	-2,691	-	-31,676	-	-
Stock Change	-	-12	-	-36	-	-	-	-16	1,746
Primary Energy Supply	28,114	2,644	82,504	4,286	139,715	2,374	37,759	105,526	44,990
Main Activity Producer	-8,484	-1,107	-9,787	-2,336	-19,942	-1,697	-10,511	-70,182	-21,543
Autoproducers	-2,602	-159	-3,640	-74	-4,583	-	-	-3,950	-676
Coal Transformation	-48	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	4	430	-2,312	25	291	333	-3,727	1,247	563
Other Transformation	-	-	-906	-	-	-	-	-	-
Final Energy Consumption	12,881	673	56,322	1,441	94,741	677	17,532	30,922	22,904

Demand & Supply Table of Coal in 2012 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
1,860	7,529	2,879	-	148	3,879	185,108	-	-	4,798	495,485	23,734	3,180,873	
14,220	4,128	83	-	455	6,278	17,875	25	35,642	4,720	5,109	963	408,744	
-232	-151	-1,583	-	-89	-1,675	-83,542	-0	-	-2	-73,147	-8,521	-583,150	
-52	-2,322	338	-	333	834	-382	-	350	-1,208	-2,390	-392	-36,594	
15,796	9,183	1,718	-	847	9,316	119,059	25	35,993	8,308	425,057	15,785	2,969,873	
-14,138	-8,070	-664	-	-162	-6,300	-52,553	-	-19,816	-6,935	-378,904	-6,106	-1,459,125	
-	-36	-6	-	-145	-	-17,580	-	-5,091	-	-2,447	-	-170,596	
-	-1,949	-417	-	-	-	-41,026	-	-5,206	-	-14,258	-	-492,285	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-1,969	-	-6,485	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,744	129	531	-	574	1,897	5,763	-	5,302	1,342	17,464	9,678	764,789	

Demand & Supply Table of Crude Oil in 2012 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
31,321	152,190	2,121	756	6,900	220	521,255	-	10	17,497	407,505	17,518	1,633,515	
10,003	485	5,618	1,111	4,843	8,872	840	50,430	46,603	45,074	483,420	-	1,330,533	
-12,086	-70,781	-1,838	-755	-813	-141	-241,151	-8	-	-2,423	-13,863	-9,643	-524,280	
967	-286	147	-44	52	82	475	-	461	201	-4,586	-1,340	-11,039	
30,204	81,608	6,048	1,069	10,981	9,033	281,420	50,422	47,074	60,349	872,477	6,534	2,428,729	
-	-	-	-	-	-	-	-	-	-	-	-	-12,988	
-	-	-	-	-	-	-796	-	-	-	-	-	-810	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-27,749	-70,990	-5,799	-1,063	-9,833	-8,402	-275,606	-50,430	-47,354	-50,530	-845,260	-6,534	-2,367,014	
-	-	-	-	-	-	-	-	-	-	-	-	2,359	
99	225	6	-	91	122	-	-	-	1,153	27,212	-	47,873	
-	-	-	-	-	-	85	-	-	6,670	2,175	-	9,868	

Demand & Supply Table of Natural Gas in 2012 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
51,157	40,357	3,798	127	10,793	3,159	540,793	-	354	35,757	558,375	8,253	1,616,917	
7,819	18,615	-	-	-	-	6,606	9,158	15,935	9,901	72,715	-	362,270	
-26,755	-68	-	-	-4,650	-	-158,822	-0	-	-	-37,093	-	-366,670	
-	-	41	-	-	-	-1,459	-	108	-	908	-	1,281	
32,222	58,904	3,839	127	6,143	3,159	387,119	9,157	16,397	45,658	594,906	8,253	1,613,797	
-11,465	-22,863	-1,493	-	-3,355	-3,015	-153,018	-7,110	-11,542	-24,164	-211,211	-6,815	-601,639	
-1,723	-3,415	-37	-120	-181	-	-88,318	-375	-81	-	-16,196	-	-126,127	
-	-	-0	-	-	-	-	-	-	-	-	-	-48	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-7,756	569	-	-	-	-	-0	-1	-635	-	1,151	-	-9,816	
-	-	-	-	-	-	-1,673	-	-	-	-	-	-2,579	
10,147	14,445	1,928	-	1,284	1	128,064	1,256	2,661	6,703	299,608	1,438	705,629	

3.22.4 Demand and Supply: 2013

Demand & Supply Table of Coal in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	263,819	-	35,039	1,591	1,938,443	-	264,059	676	808
Import	-	-	5,147	6,155	123,839	8,171	65	116,750	76,574
Export	-216,616	-	-23,402	-662	-4,256	-1	-193,301	-	-
Stock Change	-1,128	-	309	-447	-22,779	-401	-13,343	124	-312
Primary Energy Supply	46,076	-	17,093	6,638	2,035,246	7,769	57,479	117,550	77,069
Main Activity Producer	-41,375	-	-16,079	-6,635	-827,279	-7,769	-32,424	-53,881	-47,127
Autoproducers	-	-	-	-	-136,260	-	-	-11,470	-3,013
Coal Transformation	-2,853	-	-2,466	-393	-401,572	-	-9	-36,115	-22,279
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-4,421	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,080	-	1,206	132	616,844	0	25,047	15,558	4,302

Demand & Supply Table of Crude Oil in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	20,093	7,133	195,249	539	212,754	-	47,752	598	605
Import	25,241	10	37,081	9,647	281,742	-	18,091	182,014	125,526
Export	-13,232	-6,707	-139,121	-	-1,617	-	-17,945	-	-286
Stock Change	177	44	-289	-208	-3,334	-	665	13,419	1,041
Primary Energy Supply	32,279	479	92,920	9,978	489,544	-	48,564	196,030	126,886
Main Activity Producer	-	-	-	-	-104	-	-	-9,615	-
Autoproducers	-	-	-	-	-34	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-31,947	-479	-94,388	-10,631	-490,458	-5	-47,646	-173,412	-132,815
Gas processing	-	-	2,237	-	-	-	-	-	-
Other Transformation	216	-	1,832	40	9,656	5	-	-	8,193
Final Energy Consumption	15	-	-	-	1,469	-	-	-	-

Demand & Supply Table of Natural Gas in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Indigenous Production	52,123	11,216	130,348	812	112,521	-	66,955	2,651	415
Import	5,603	-	22,297	3,262	49,253	2,307	-	103,270	47,666
Export	-28,000	-8,932	-68,856	-	-2,556	-	-32,384	-	-
Stock Change	-	-32	-	-19	-	-	-	-3	-464
Primary Energy Supply	29,727	2,252	83,788	4,055	159,218	2,307	34,571	105,918	47,618
Main Activity Producer	-8,584	-1,105	-8,749	-1,966	-21,243	-1,625	-11,725	-69,936	-22,157
Autoproducers	-2,591	-157	-4,413	-112	-5,283	-	-	-3,753	-619
Coal Transformation	-46	-	-	-0	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-269	449	-2,198	10	-205	-	-2,246	964	46
Other Transformation	-	-	-867	-	-	-	-	-	-
Final Energy Consumption	13,469	211	59,786	1,432	107,615	682	17,697	29,611	24,140

Demand & Supply Table of Coal in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
1,823	7,260	2,740	-	137	3,743	184,275	-	-	4,398	477,186	-	3,185,998
13,900	4,346	267	-	726	7,608	17,415	266	36,782	4,894	4,970	-	427,876
-326	-3	-1,503	-	-89	-1,795	-89,316	-3	-	-1	-67,555	-	-598,831
-106	829	56	-	82	447	-2,449	-	-92	-	18,410	-	-20,800
15,290	12,432	1,558	-	856	10,003	109,926	263	36,690	9,290	433,011	-	2,994,241
-13,519	-6,776	-399	-	-192	-7,806	-49,565	-135	-18,807	-4,221	-392,865	-	-1,526,852
-	-38	-6	-	-137	-	-17,152	-	-5,640	-2,836	-2,495	-	-179,046
-	-2,155	-436	-	-	-	-37,972	-	-5,683	-	-14,743	-	-526,677
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-1,817	-	-6,237
-	-	-	-	-	-	-	-	-	-	-	-	-
1,538	3,450	580	-	549	2,196	4,480	129	5,488	1,044	17,689	-	702,311

Demand & Supply Table of Crude Oil in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
29,903	150,059	1,855	819	7,354	220	524,200	-	9	17,498	476,179	-	1,692,818
9,103	411	5,481	1,274	4,573	7,756	858	47,215	44,038	45,062	438,533	-	1,283,655
-10,816	-67,272	-1,527	-802	-741	-187	-237,789	-121	-	-1,668	-30,119	-	-529,949
526	-438	-67	62	-263	-38	-1,454	59	479	-	5,206	-	15,586
28,716	82,760	5,742	1,354	10,923	7,751	285,814	47,153	44,527	60,892	889,799	-	2,462,110
-	-	-	-	-	-	-	-	-	-	-	-	-9,719
-	-	-	-	-	-	-782	-	-	-	-	-	-816
-	-	-	-	-	-	-	-	-	-	-	-	-
-26,666	-74,852	-5,543	-1,337	-9,351	-7,894	-279,905	-52,115	-44,572	-55,829	-858,016	-	-2,397,861
-	-	-	-	-	-	-	-	-	-	-	-	2,237
479	151	3	-	56	148	-	-	-	1,624	30,118	-	52,523
-	-	-	-	-	-	107	-	-	6,172	2,450	-	10,213

Demand & Supply Table of Natural Gas in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
58,880	40,485	4,023	127	11,193	3,066	563,279	-	305	36,897	567,012	-	1,662,309
8,726	21,401	-	-	-	-	6,736	9,653	16,035	11,105	66,733	-	374,047
-34,383	-92	-	-	-5,412	-	-174,112	-0	-	-	-35,994	-	-390,720
-	-	-44	-	-	-	-743	-	-3	-	12,183	-	10,875
33,223	61,794	3,980	127	5,781	3,066	395,161	9,653	16,338	48,002	609,933	-	1,656,511
-13,265	-26,568	-1,492	-	-3,058	-2,883	-161,005	-7,611	-11,935	-23,992	-190,456	-	-589,357
-1,619	-6,681	-37	-123	-174	-	-92,180	-842	-68	-1,611	-16,480	-	-136,744
-	-	-0	-	-	-	-	-	-	-	-	-	-46
-	-	-	-	-	-	-	-	-	-	-	-	-
-3,456	522	-	-	-	-	-0	-10	-164	-2,382	1,010	-	-7,928
-3,170	-	-	-	-	-	-1,656	-	-	-	-	-	-5,694
9,886	12,131	2,160	-	1,761	67	126,473	1,442	2,809	7,928	332,975	-	752,275

3.22.5 Power Generation

Power Generation Table in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	246,739	3,984	634,164	70,395	5,431,637	39,103	216,146	1,088,773	528,140
Thermal	221,405	3,982	142,737	44,340	4,247,009	39,061	189,567	922,158	369,407
Coal	161,197	-	65,158	30,235	4,123,146	-	110,452	358,240	222,842
Oil	3,410	42	7,512	5,451	22,478	-	45,056	177,836	21,418
Gas	53,093	4,360	67,172	11,155	101,384	-	34,059	386,082	144,835
Hydro	14,026	-	379,441	20,154	920,291	1	16,930	85,160	3,969
Nuclear	-	-	94,862	-	111,613	-	-	14,603	150,327
Geothermal	1	-	-	-	-	-	9,414	2,564	-
Others	11,307	2	17,124	5,901	152,724	41	235	64,287	4,437
Main Activity Producer	230,274	3,524	576,920	63,973	4,909,362	39,063	216,146	818,742	499,977
Thermal	209,537	3,522	122,159	43,429	3,724,734	39,061	189,567	732,672	342,880
Coal	160,883	-	65,158	30,235	3,613,497	-	110,452	265,051	203,905
Oil	881	42	5,542	4,677	20,934	-	45,056	110,463	16,414
Gas	44,068	3,900	48,564	11,018	90,303	-	34,059	357,157	142,249
Hydro	14,026	-	348,195	19,979	920,291	-	16,930	68,807	3,969
Nuclear	-	-	94,862	-	111,613	-	-	14,603	150,327
Geothermal	1	-	-	-	-	-	9,414	2,408	-
Others	6,710	2	11,704	565	152,724	2	235	253	2,801
Autoproducers	16,465	460	57,244	6,422	522,275	40	-	270,031	28,163
Thermal	11,868	460	20,578	911	522,275	-	-	189,487	26,527
Coal	314	-	-	-	509,649	-	-	93,189	18,937
Oil	2,529	-	1,970	774	1,544	-	-	67,373	5,004
Gas	9,025	460	18,608	137	11,082	-	-	28,924	2,586
Hydro	-	-	31,246	175	-	1	-	16,353	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	156	-
Others	4,597	-	5,420	5,336	-	39	-	64,035	1,636

Power Generation Table in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Total	249,951	3,930	633,076	69,751	4,987,553	38,794	196,054	1,113,149	530,935
Thermal	224,910	3,929	140,890	44,330	3,892,814	38,750	173,689	941,527	372,452
Coal	171,239	-	64,367	25,337	3,772,710	-	95,325	333,164	239,347
Oil	4,069	38	6,929	6,144	24,427	-	40,082	217,696	21,168
Gas	49,602	3,891	69,594	12,849	95,678	-	38,282	390,668	111,937
Hydro	14,026	-	380,229	20,158	872,107	-	12,799	84,157	3,969
Nuclear	-	-	94,862	-	97,394	-	-	17,991	150,327
Geothermal	1	-	-	-	-	-	9,416	2,660	-
Others	11,014	2	17,095	5,263	125,238	45	149	66,814	4,187
Main Activity Producer	230,274	3,524	576,920	63,973	4,543,003	38,752	196,054	836,148	499,977
Thermal	14,026	-	348,195	19,979	872,107	-	12,799	67,877	3,969
Coal	170,814	-	64,367	25,337	3,340,351	-	95,325	242,415	218,050
Oil	762	38	5,130	5,386	22,478	-	40,082	145,850	15,742
Gas	37,961	3,485	52,662	12,706	85,435	-	38,282	359,255	109,088
Hydro	14,026	-	348,195	19,979	872,107	-	12,799	67,877	3,969
Nuclear	-	-	94,862	-	97,394	-	-	17,991	150,327
Geothermal	1	-	-	-	-	-	9,416	2,509	-
Others	6,710	2	11,704	565	125,238	2	149	251	2,801
Autoproducers	19,677	406	56,156	5,778	444,550	43	-	277,001	30,958
Thermal	15,373	406	18,731	901	444,550	-	-	194,008	29,572
Coal	425	-	-	-	432,359	-	-	90,749	21,297
Oil	3,307	-	1,799	758	1,949	-	-	71,846	5,426
Gas	11,641	406	16,932	143	10,243	-	-	31,412	2,849
Hydro	-	-	32,034	179	-	-	-	16,280	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	151	-
Others	4,304	-	5,391	4,698	-	43	-	66,563	1,386

Power Generation Table in 2013 (Continued)

												GW h
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
138,330	300,209	44,291	4,169	43,295	75,266	1,066,627	47,964	252,250	197,629	4,274,561	-	14,703,673
126,472	248,215	12,439	2,752	19,762	55,363	719,363	44,555	194,912	164,145	2,941,444	-	10,709,088
53,372	31,962	2,395	-	642	32,081	161,876	685	119,320	35,257	1,712,408	-	7,221,268
5,339	47,881	3	2,317	2,000	4,491	8,706	2,982	6,719	1,585	36,858	-	402,084
67,761	165,751	8,703	435	17,120	18,791	529,974	40,889	68,873	118,871	1,158,454	-	2,997,761
10,586	31,875	22,901	995	22,890	10,019	166,323	-	8,610	8,642	279,645	-	2,002,458
-	8,770	-	-	-	-	177,534	-	41,639	-	801,129	-	1,400,477
-	5,817	6,194	422	-	9,605	477	-	-	1	18,135	-	52,630
1,272	5,532	2,757	-	643	279	2,930	3,409	7,089	24,842	234,208	-	539,019
133,310	261,703	42,886	975	40,627	75,266	1,002,132	45,160	213,924	171,268	4,096,787	-	13,442,020
121,948	214,053	11,629	340	18,112	55,363	659,241	41,751	162,146	144,931	2,815,509	-	9,652,584
53,372	31,501	1,732	-	642	32,081	153,135	685	89,130	33,407	1,693,607	-	6,538,475
5,255	41,606	3	340	1,033	4,491	5,109	2,315	5,275	1,558	28,488	-	299,482
63,321	138,325	8,556	-	16,437	18,791	482,190	38,751	67,740	101,533	1,059,690	-	2,726,652
10,586	31,317	22,888	635	22,282	10,019	164,875	-	8,610	8,641	276,111	-	1,948,162
-	8,770	-	-	-	-	177,534	-	41,639	-	801,129	-	1,400,477
-	5,817	6,137	-	-	9,605	477	-	-	1	18,135	-	51,995
776	1,746	2,232	-	233	279	5	3,409	1,529	17,695	185,903	-	388,803
5,020	38,506	1,405	3,194	2,668	-	64,495	2,804	38,326	26,361	177,774	-	1,261,653
4,524	34,162	810	2,412	1,650	-	60,122	2,804	32,766	19,214	125,935	-	1,056,504
-	461	663	-	-	-	8,741	-	30,189	1,849	18,801	-	682,794
84	6,275	-	1,977	967	-	3,597	667	1,444	27	8,370	-	102,602
4,440	27,426	147	435	683	-	47,784	2,137	1,133	17,338	98,764	-	271,108
-	558	13	360	608	-	1,448	-	-	0	3,534	-	54,296
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	57	422	-	-	-	-	-	-	-	-	635
496	3,786	525	-	410	-	2,925	-	5,560	7,147	48,305	-	150,216

Power Generation Table in 2012 (Continued)

												GW h
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
134,354	293,862	44,255	4,049	39,909	72,922	1,069,313	46,915	250,390	171,268	4,270,771	117,600	14,338,803
123,239	240,916	12,415	2,632	17,866	52,160	722,366	43,207	194,686	144,931	2,941,052	64,289	10,393,051
55,621	34,315	3,551	-	794	28,265	168,927	-	120,615	33,081	1,643,430	37,683	6,827,771
6,625	49,206	3	2,057	1,420	4,254	28,062	6,564	7,064	2,222	33,070	438	461,537
60,993	150,922	8,861	575	15,652	19,642	525,377	36,644	67,007	109,628	1,264,552	26,168	3,058,521
9,254	31,855	22,901	995	21,354	10,252	165,898	-	8,609	8,641	278,511	52,805	1,998,520
-	8,770	-	-	-	-	177,534	-	40,462	-	801,129	-	1,388,470
-	5,817	6,194	422	-	10,250	477	-	-	1	18,135	-	53,373
1,861	6,504	2,745	-	689	259	3,038	3,708	6,633	17,695	231,944	507	505,389
128,200	261,703	42,886	975	37,351	72,922	1,002,132	45,199	215,302	171,268	4,096,787	117,600	13,180,950
9,254	31,317	22,888	635	20,866	10,252	164,875	-	8,609	8,641	276,111	52,805	1,945,205
55,621	33,861	2,911	-	486	28,265	161,027	-	93,631	33,081	1,624,104	37,683	6,227,328
6,517	49,206	3	340	654	4,254	24,023	6,426	5,660	2,222	23,633	438	358,843
55,460	130,986	8,715	-	15,002	19,642	474,191	35,745	65,522	109,628	1,167,772	26,168	2,807,705
9,254	31,317	22,888	635	20,866	10,252	164,875	-	8,609	8,641	276,111	52,805	1,945,205
-	8,770	-	-	-	-	177,534	-	40,462	-	801,129	-	1,388,470
-	5,817	6,137	-	-	10,250	477	-	-	1	18,135	-	52,743
1,348	1,746	2,232	-	343	259	5	3,028	1,418	17,695	185,903	507	361,906
6,154	32,159	1,369	3,074	2,558	-	67,181	1,717	35,088	-	173,984	-	1,157,852
5,641	26,863	786	2,292	1,724	-	63,125	1,036	29,873	-	125,543	-	960,425
-	454	640	-	308	-	7,900	-	26,985	-	19,326	-	600,442
108	-	-	1,717	766	-	4,039	138	1,404	-	9,437	-	102,694
5,533	19,936	146	575	650	-	51,186	898	1,484	-	96,780	-	250,816
-	538	13	360	488	-	1,023	-	-	-	2,400	-	53,315
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	57	422	-	-	-	-	-	-	-	-	630
513	4,758	513	-	346	-	3,033	680	5,215	-	46,041	-	143,483

3.22.6 Fuel Consumption for Power Generation

Fuel Consumption Table for Power Generation in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Main Activity Producer	50,544	1,116	26,198	10,120	886,215	9,438	50,669	153,951	74,129
Coal	41,375	-	16,079	6,635	827,279	7,769	32,424	53,881	47,127
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	1,524	-	-	1,004	138
Blast Furnace Gas	-	-	-	-	-	-	-	3,105	622
Crude Oil & NGL	-	-	-	-	104	-	-	9,615	-
LPG	-	-	-	-	-	-	-	936	1
Refinery Gas	-	-	-	-	658	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Diesel Oil	187	11	127	548	363	14	5,240	404	101
Fuel Oil	45	-	361	84	1,141	30	1,186	14,880	3,712
Natural Gas	8,584	1,105	8,749	1,966	21,243	1,625	11,725	69,936	22,157
Others	354	-	882	887	33,902	-	94	190	271
Autoproducers	3,573	157	6,235	3,968	172,799	13	-	37,194	8,778
Coal	-	-	-	-	136,260	-	-	11,470	3,013
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	7,686	-	-	542	368
Blast Furnace Gas	72	-	-	-	16,976	-	-	2,370	1,827
Crude Oil & NGL	-	-	-	-	34	-	-	-	-
LPG	-	-	-	-	6	-	-	195	-
Refinery Gas	-	-	293	-	1,410	-	-	1,670	-
Naphtha	-	-	-	-	-	-	-	2,179	1,088
Diesel Oil	509	-	95	83	27	-	-	2,300	-
Fuel Oil	111	-	68	94	1,003	-	-	4,491	-
Natural Gas	2,591	157	4,413	112	5,283	-	-	3,753	619
Others	291	-	1,366	3,679	4,115	13	-	8,225	1,864

Fuel Consumption Table for Power Generation in 2012

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Main Activity Producer	51,063	1,118	26,756	9,372	820,190	9,175	50,048	157,914	73,392
Coal	42,156	-	15,696	5,671	766,111	7,288	32,424	48,982	47,148
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	1,387	-	-	939	138
Blast Furnace Gas	-	-	-	-	-	-	-	3,046	622
Crude Oil & NGL	-	-	-	-	109	-	-	12,879	-
LPG	-	-	-	-	-	-	-	1,795	-
Refinery Gas	-	-	-	-	742	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	158	11	130	745	363	97	5,519	488	154
Fuel Oil	16	-	406	72	1,180	93	1,594	18,889	3,542
Natural Gas	8,484	1,107	9,787	2,336	19,942	1,697	10,511	70,182	21,543
Others	248	-	737	549	30,355	-	-	714	246
Autoproducers	3,825	159	5,465	4,217	162,935	13	-	36,703	9,904
Coal	-	-	-	-	131,239	-	-	10,938	3,114
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	6,930	-	-	507	342
Blast Furnace Gas	69	-	-	-	13,572	-	-	2,103	2,226
Crude Oil & NGL	-	-	-	-	14	-	-	-	-
LPG	-	-	-	-	1	-	-	157	-
Refinery Gas	-	-	314	-	1,533	-	-	1,562	-
Naphtha	-	-	-	-	-	-	-	2,063	1,892
Gas/Diesel Oil	515	-	112	474	24	-	-	1,955	-
Fuel Oil	120	-	71	139	1,124	-	-	5,477	-
Natural Gas	2,602	159	3,640	74	4,583	-	-	3,950	676
Others	520	-	1,328	3,531	3,916	13	-	7,991	1,655

Fuel Consumption Table for Power Generation in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
27,799	43,763	1,931	102	3,572	11,873	212,119	8,870	32,027	28,583	603,954	-	2,236,974
13,519	6,776	399	-	192	7,806	49,565	135	18,807	4,221	392,865	-	1,526,852
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	13	-	2,681
-	-	-	-	-	-	-	-	-	-	159	-	3,886
-	-	-	-	-	-	-	-	-	-	-	-	9,719
-	-	-	-	-	-	-	-	-	-	-	-	937
-	-	-	-	-	-	-	-	-	-	-	-	658
-	-	-	-	-	-	-	-	-	-	-	-	-
623	616	1	-	53	247	-	-	44	59	1,309	-	9,947
393	9,804	-	102	115	829	1,549	455	1,242	311	1,772	-	38,008
13,265	26,568	1,492	-	3,058	2,883	161,005	7,611	11,935	23,992	190,456	-	589,357
-	-	39	-	156	106	-	670	-	-	17,381	-	54,930
1,641	9,969	338	687	684	-	125,887	1,105	8,953	8,502	27,404	-	417,888
-	38	6	-	137	-	17,152	-	5,640	2,836	2,495	-	179,046
-	-	-	-	-	-	6	-	-	-	-	-	6
-	16	46	-	-	-	1,598	-	201	-	97	-	10,554
-	100	132	-	-	-	1,464	-	402	-	684	-	24,028
-	-	-	-	-	-	782	-	-	-	-	-	816
-	14	-	-	-	-	31	-	-	-	-	-	245
-	-	-	-	29	-	698	-	12	-	-	-	4,111
-	-	-	-	-	-	-	-	-	-	-	-	3,266
22	225	-	206	90	-	1,969	263	-	-	37	-	5,824
-	476	-	358	88	-	5,599	-	450	7	64	-	12,809
1,619	6,681	37	123	174	-	92,180	842	68	1,611	16,480	-	136,744
-	2,418	117	-	167	-	4,409	-	2,180	4,049	7,547	-	40,440

Fuel Consumption Table for Power Generation in 2012 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
27,309	41,407	2,198	76	3,802	10,376	212,747	8,991	32,738	32,564	609,639	13,047	2,193,920
14,138	8,070	664	-	162	6,300	52,553	-	19,816	6,935	378,904	6,106	1,459,125
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	16	-	2,481
-	-	-	-	-	-	-	-	-	-	175	-	3,843
-	-	-	-	-	-	-	-	-	-	-	-	12,988
-	-	-	-	-	-	-	-	-	-	-	-	1,795
-	-	-	-	-	-	-	-	-	-	-	-	742
-	-	-	-	-	-	-	-	-	-	-	-	-
811	501	1	-	103	194	-	-	45	35	1,237	31	10,621
550	9,973	-	76	108	778	7,176	1,278	1,335	473	1,759	95	49,394
11,465	22,863	1,493	-	3,355	3,015	153,018	7,110	11,542	24,164	211,211	6,815	601,639
346	-	40	-	74	89	-	602	-	957	16,337	-	51,293
1,904	6,220	330	575	628	-	122,604	716	8,313	2,295	28,076	35	394,918
-	36	6	-	145	-	17,580	-	5,091	-	2,447	-	170,596
-	-	-	-	-	-	5	-	-	-	-	-	5
-	11	40	-	-	-	1,586	-	174	-	119	-	9,708
-	77	132	-	-	-	1,231	-	408	-	854	-	20,670
-	-	-	-	-	-	796	-	-	-	-	-	810
-	-	-	-	-	-	33	-	-	-	-	-	191
-	-	-	-	-	-	701	-	14	-	-	-	4,123
-	-	-	-	-	-	-	-	-	-	-	-	3,956
-	120	-	103	97	-	2,010	58	-	-	39	-	5,505
-	326	-	352	86	-	5,915	-	440	-	67	-	14,119
1,723	3,415	37	120	181	-	88,318	375	81	-	16,196	-	126,127
180	2,236	115	-	119	-	4,430	284	2,105	2,295	8,355	35	39,108

3.22.7 Stock Level by Energy Resources

Stock Level by Energy Resource in 2013

	Australia	Brunei Darussalam	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Opening Stocks									
Hard Coal	-	-	-	-	-	-	-	124	-
Coking Coal	-	-	-	-	-	-	-	-124	-
Other bituminous coal	-	-	-	-	-	-	-	248	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	32	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	9	-	-	-	-
Crude Oil & NGL	2,017	273	7,503	350	-	-	-	13,419	15,920
Gasoline	829	9	2,273	108	42	15	-	1,481	639
Naphtha	282	7	371	60	6	-	-	496	430
Jet Fuel	-	-	-	-	1	-	-	-	-
Kerosene	940	10	2,605	339	912	-	-	2,168	1,593
Gas/Diesel Oil	74	-	401	115	-	338	-	1,759	1,594
Fuel Oil	219	0	290	71	-	15	-	2,701	870
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	627	2	1,315	133	40	-	-	360	455
Natural Gas	-	1	-	149	-	-	-	-3	2,151
Others	-	-	-	-	-	-	-	-	-
Total Opening Stocks	4,988	302	14,758	1,326	1,042	368	-	22,505	23,654
Closing Stocks									
Hard Coal	-	-	-	-	20,275	401	13,343	-	-
Coking Coal	-	-	-	-	7,597	-	-	-	-
Other bituminous coal	-	-	-	-	12,677	401	-	-	-
Subbituminous Coal	-	-	-	-	-	-	13,343	-	-
Anthracite	-	-	-	-	2,537	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	13,831	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	1,960	235	7,825	549	3,334	-	-665	-	14,826
Gasoline	911	10	2,069	111	-	-	-552	-	839
Naphtha	311	6	331	86	-	78	-216	-	528
Jet Fuel	-	-	-	-	-	-	-	-	-
Kerosene	1,040	17	2,274	396	-	23	-5,723	-	2,255
Gas/Diesel Oil	114	-	344	33	904	-	-1,976	-	1,580
Fuel Oil	136	0	332	86	24	-	-354	-	1,055
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	504	3	1,337	83	5,795	-	-	-	403
Natural Gas	-	2	-	168	-	-	-	-	2,616
Others	-	-	-	-	-	-	-	-	-
Total Closing Stocks	4,976	273	14,513	1,513	46,699	501	3,858	-	24,102
Stock Change									
Hard Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Other bituminous coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	-	-	-	-	-
Gasoline	-	-	-	-	-	-	-	-	-
Naphtha	-3,372	-88	-826	-630	-6,585	-5,656	-	-	-4,276
Jet Fuel	-	-	-	-	-	-	-	-	-
Kerosene	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	-	-	-	-	-	-	-	-	-
Fuel Oil	-	-	-	-	-	-	-	-	-
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Total Stock Change	-3,372	-88	-826	-630	-6,585	-5,656	-	-	-4,276

Stock Level by Energy Resource in 2013 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
-	-	-	-	333	447	-	-	2,870	-	-	-	3,774
-	-	-	-	-	-	-	-	148	-	-	-	24
-	-	-	-	333	-	-	-	1,904	-	-	-	2,485
-	-	-	-	-	447	-	-	817	-	-	-	1,264
-	-	-	-	-	-	-	-	19	-	-	-	19
-	-	-	-	-	-	-	-	-	-	-	-	32
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	25	-	-	-	-	-	-	-	25
-	-	-	-	-	-	-	-	-	-	-	-	9
526	2,964	298	92	180	-51	50,240	59	3,284	-	134,981	-	232,056
-	1,666	219	-	248	83	2,548	-	1,016	-	25,221	-	36,397
-	143	95	-	516	0	-	-	-	-	4,470	-	6,875
-	-	-	-	-	-	-	-	-	-	-	-	1
-	1,044	245	21	10	121	4,742	-	1,211	-	17,569	-	33,529
-	697	64	3	652	46	5,127	-	355	-	6,828	-	18,054
222	110	6	-	23	2	287	-	366	-	6,895	-	12,077
-	-	-	-	-	-	-	-	-	-	-	-	-
-	276	59	-	227	-2	189	-	-	-	7,335	-	11,018
-	-	289	-	-	-	37,380	-	-	-	79,497	-	119,465
-	-	-	-	-	-	-	-	-	-	-	-	-
748	6,900	1,276	116	2,212	647	100,512	59	9,121	-	282,796	-	473,329
106	-	-	-	251	-	-	-	2,943	-	-	-	37,319
-	-	-	-	-	-	-	-	292	-	-	-	7,890
-	-	-	-	251	-	-	-	2,054	-	-	-	15,383
106	-	-	-	-	-	-	-	597	-	-	-	14,047
-	-	-	-	-	-	-	-	37	-	-	-	2,574
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-	-	-	-	-	13,831
-	3,403	370	30	266	-	51,689	-	2,805	-	132,216	-	218,844
735	1,617	246	7	231	-	2,518	-	1,047	-	24,949	-	34,740
20	158	75	-	-	-	-	-	-	-	4,208	-	5,586
-	-	-	-	-	-	-	-	-	-	-	-	-
850	845	252	17	390	-	4,990	-	1,142	-	17,016	-	25,783
170	675	106	1	364	-	5,277	-	413	-	7,449	-	15,454
-	102	3	1	42	-	522	-	244	-	6,552	-	8,745
-	-	-	-	-	-	-	-	-	-	-	-	-
158	323	89	-	322	-	162	-	-	-	7,483	-	16,662
-	-	333	-	-	-	38,122	-	-	-	67,314	-	108,555
-	-	-	-	-	-	-	-	-	-	-	-	-
2,039	7,122	1,474	57	1,867	-	103,280	-	8,632	-	267,186	-	488,093
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-2,397	-3,024	-867	-	-	-1,097	-6,073	-7,165	-2,200	-4,835	-21,796	-	-70,888
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-2,397	-3,024	-867	-	-	-1,097	-6,073	-7,165	-2,200	-4,835	-21,796	-	-70,888

3.22.8 Power Generation Capacity

Power Generation Capacity - Total

MW

	1990	2000	2005	2009	2010	2011	2012	2013
Australia	38,451	46,204	50,142	57,059	60,068	61,939	64,246	64,026
Brunei Darussalam	334	763	759	879	888	894	723	917
Canada	104,141	111,324	123,211	131,679	132,375	132,959	132,598	132,598
Chile	5,099	9,894	12,586	15,731	16,231	17,549	18,153	18,600
China	137,891	319,321	509,410	873,970	962,180	1,064,550	1,144,750	1,247,280
Hong Kong, China	8,342	11,568	11,804	12,644	12,624	12,624	12,625	12,625
Indonesia	9,275	20,762	27,664	30,489	32,896	39,899	45,253	50,990
Japan	188,700	253,594	274,262	277,511	281,082	282,284	285,643	287,060
Republic of Korea	21,021	53,693	66,537	80,610	84,700	84,654	94,276	91,997
Malaysia	5,582	13,762	23,626	26,637	24,817	25,599	29,143	29,748
Mexico	27,371	40,345	52,497	59,693	62,290	61,600	62,136	63,611
New Zealand	7,176	8,388	8,854	9,404	9,457	9,765	9,615	9,622
Papua New Guinea	490	543	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	4,143	6,070	6,201	7,987	8,000	-	9,699	11,051
The Philippines	6,869	13,185	15,619	13,319	13,319	16,162	17,025	17,325
Russia	213,400	212,771	219,043	225,499	222,935	222,984	232,685	-
Singapore	3,667	6,610	10,106	10,659	10,265	10,222	10,488	-
Chinese Taipei	16,883	27,385	43,146	47,976	48,882	48,750	48,711	49,103
Thailand	8,725	20,802	26,269	30,508	31,486	31,486	33,178	34,973
United States	733,589	811,349	978,539	1,026,869	1,041,000	1,055,278	1,067,878	1,065,092
Viet Nam	2,537	6,192	11,340	N.A.	N.A.	N.A.	N.A.	N.A.

Power Generation Capacity - Thermal Power

MW

	1990	2000	2005	2009	2010	2011	2012	2013
Australia	30,130	36,945	40,815	46,628	49,028	49,626	50,459	49,509
Brunei Darussalam	334	763	759	879	888	894	723	915
Canada	31,201	33,183	37,174	40,930	40,424	38,939	34,660	34,660
Chile	2,421	5,464	7,360	10,091	10,576	11,419	11,957	12,105
China	101,845	237,540	384,130	652,050	706,630	768,520	819,170	862,380
Hong Kong, China	8,342	11,568	11,804	12,644	12,624	12,624	12,625	12,625
Indonesia	7,040	17,386	23,453	25,845	27,973	34,717	39,732	44,443
Japan	119,303	161,869	177,472	179,324	181,736	182,382	185,309	188,904
Republic of Korea	11,065	36,817	45,365	56,482	60,389	58,303	65,538	62,565
Malaysia	4,185	11,708	21,242	23,134	22,488	22,515	24,994	24,973
Mexico	18,155	28,441	39,540	45,320	47,736	47,070	46,707	48,047
New Zealand	2,296	2,741	2,886	2,929	2,929	3,138	2,988	2,738
Papua New Guinea	335	319	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	1,744	3,210	2,938	2,641	4,682	-	5,828	7,414
The Philippines	3,661	8,953	10,393	9,041	9,041	10,772	11,504	11,784
Russia	149,700	146,670	149,915	153,800	151,114	151,114	157,845	-
Singapore	3,667	6,610	10,106	10,657	10,261	10,216	10,478	-
Chinese Taipei	9,177	17,819	32,756	37,177	37,924	37,632	37,063	37,242
Thailand	6,451	17,865	20,575	24,547	25,109	25,201	28,859	30,119
United States	536,667	610,124	767,316	786,050	793,551	798,833	793,352	787,297
Viet Nam	1,362	2,900	4,382	N.A.	N.A.	N.A.	N.A.	N.A.

Power Generation Capacity - Hydro Power

MW

	1990	2000	2005	2009	2010	2011	2012	2013
Australia	8,321	9,201	8,535	8,619	8,773	8,788	8,790	8,037
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	59,381	67,407	71,978	74,687	75,078	75,573	75,537	75,537
Chile	2,678	4,430	5,224	5,452	5,467	5,946	5,992	6,094
China	36,046	79,352	116,520	196,790	213,400	233,390	248,900	280,020
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	2,095	3,015	3,411	3,702	3,734	3,944	4,146	5,166
Japan	37,482	45,860	46,803	47,949	47,966	48,111	48,418	48,934
Republic of Korea	2,340	3,149	3,883	5,515	5,525	6,418	6,447	6,454
Malaysia	1,397	2,054	2,091	2,107	2,107	2,856	3,317	3,916
Mexico	7,838	9,653	10,598	11,543	11,626	11,646	11,650	11,653
New Zealand	4,619	5,193	5,346	5,326	5,254	5,254	5,254	5,263
Papua New Guinea	155	224	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	2,400	2,860	3,207	3,277	3,318	-	3,484	3,556
The Philippines	2,153	2,301	3,222	2,914	2,914	3,491	3,521	3,521
Russia	43,400	44,345	45,797	47,308	47,430	47,479	49,445	-
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	1,562	4,422	4,512	4,539	4,579	4,643	4,683	4,683
Thailand	2,274	2,936	3,476	3,481	3,488	3,488	3,508	3,524
United States	92,360	97,600	98,887	100,678	101,023	100,944	101,106	101,589
Viet Nam	1,176	3,292	4,155	N.A.	N.A.	N.A.	N.A.	N.A.

Power Generation Capacity - Nuclear Power

MW

	1990	2000	2005	2009	2010	2011	2012	2013
Australia	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	13,538	10,615	13,345	12,665	12,665	12,665	13,370	13,370
Chile	-	-	-	-	-	-	-	-
China	-	2,100	6,840	9,000	10,820	12,570	12,570	14,610
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Japan	31,645	45,248	48,222	47,935	48,847	48,960	48,960	46,148
Republic of Korea	7,616	13,716	17,176	17,716	17,716	18,716	20,716	20,716
Malaysia	-	-	-	-	-	-	-	-
Mexico	675	1,365	1,365	1,365	1,365	1,365	1,610	1,400
New Zealand	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	-	-	-	-	-	-	-	-
The Philippines	-	-	-	-	-	-	-	-
Russia	20,300	21,730	23,242	24,300	24,300	24,300	25,304	-
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144
Thailand	-	-	-	-	-	-	-	-
United States	99,643	97,860	99,988	101,004	101,167	101,419	101,885	99,240
Viet Nam	-	-	-	N.A.	N.A.	N.A.	N.A.	N.A.

Power Generation Capacity - Others

MW

	1990	2000	2005	2009	2010	2011	2012	2013
Australia	-	58	792	1,812	2,267	3,525	4,997	6,480
Brunei Darussalam	-	-	-	-	-	-	-	1
Canada	21	119	714	3,397	4,208	5,782	9,031	9,031
Chile	-	-	2	188	188	184	204	401
China	-	329	1,920	16,130	31,330	50,070	64,110	90,270
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	140	360	800	942	1,190	1,237	1,375	1,381
Japan	270	617	1,765	2,303	2,533	2,831	2,956	3,074
Republic of Korea	-	11	113	897	1,070	1,217	1,575	2,262
Malaysia	-	-	293	1,396	221	228	832	859
Mexico	703	886	994	1,465	1,563	1,519	2,169	2,511
New Zealand	261	454	622	1,149	1,274	1,373	1,373	1,621
Papua New Guinea	-	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	-	1	55	2,069	-	-	387	81
The Philippines	1,055	1,931	2,004	1,364	1,364	1,900	2,001	2,021
Russia	-	26	89	91	91	91	91	-
Singapore	-	-	-	2	4	6	10	-
Chinese Taipei	1,000	-	735	1,116	1,234	1,332	1,821	2,033
Thailand	-	1	2,218	2,480	2,889	2,797	811	1,330
United States	4,919	5,765	12,348	39,137	45,259	54,082	71,535	76,966
Viet Nam	-	-	2,803	N.A.	N.A.	N.A.	N.A.	N.A.

Appendices

A. Definition of Products

1. Coal
2. Oil
3. Gas
4. New and Renewable Energy
5. Electricity and Heat

B. Definition of Flows

C. Energy Prices

D. Definition of Columns and Rows of the Energy Balance Table

E. Conversion Factors

A. Definition of Products

COAL

Primary coal is a fossil fuel, usually with the physical appearance of a black or brown rock, consisting of carbonised vegetal matter. The higher the carbon content of a coal, the higher its rank or quality is. Coal types are distinguished by their physical and chemical characteristics. These characteristics determine the suitability for various uses. There are three main categories of coal: hard coal, sub-bituminous coal and brown coal (also called lignite). Peat, which is another primary fuel closely related to coal, is often included under coal.

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 percent.

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%.

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 carbonization 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 carbonization 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 carbonized 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)

Refer 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:** Kerosenes 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 carbonizing 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 carbonization 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

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 refers to the quantities of fuels and energies extracted or produced, calculated after any operation for removal of inert matter or impurities. Indigenous production refers to production within national boundaries including offshore production. 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/oxygentates 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

Quantity of energy that have crossed the national territorial boundaries, whether customs clearance has taken place or not. 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 cover the quantities of fuels delivered to sea-going ships of all flags. 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 includes deliveries of aviation fuels to aircraft for international aviation. 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

Stock changes should reflect the difference between opening stock level and closing stock level for stocks held

on national territory. A stock build is shown as a negative number, and a stock draw as a positive number.

6. Transfers

This refers to products transferred and inter-product transfers. Products transferred are imported petroleum products which are reclassified as feedstocks for further processing in the refinery, without delivery to final consumers. Inter-product transfers result from reclassification of products either because their specification has changed, or because they are blended into another product. 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

The transformation sector comprises the conversion of primary forms of energy to secondary and further transformation (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 which are designed to produce electricity only. If one or more units of the plant

is a CHP unit (and the inputs and outputs cannot be distinguished on a unit basis) then the whole plant is designated as a CHP plant. Both main activity producer (formerly known as public) and autoproducer plants are included here. Heat from chemical processes for electricity generation is also included here.

2. Combined Heat and Power Plants (CHP)

Combined heat and power plants refers to plants which are designed to produce both heat and electricity (sometimes referred to as co-generation power stations). If possible, fuel inputs and electricity/heat outputs are on a unit basis rather than on a plant basis. However, if data are not

available on a unit basis, the convention for defining a CHP plant noted above should be adopted. 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 and who sell heat to a third party (e.g. residential, commercial or industrial consumers) under the provisions of a contract. Both main activity producer (formerly known as public) and autoproducer plants are included here. Heat pumps that are operated within the residential sector where the heat is not sold are not considered a transformation process and are not included here - the electricity consumption would appear as residential use.

4. Blast Furnaces

Blast furnaces are for the production of pig-iron from iron ore. The transformation component pertains to the fuels used for supporting the blast furnace charge and providing heat and carbon for the reduction of the iron ore. Accounting for the calorific content of the fuels entering the process is a complex matter as transformation (into blast furnace gas) and consumption (heat of combustion) occur simultaneously. Some carbon is also retained in the pig-iron; almost all of this reappears later in the oxygen steel furnace gas (or converter gas) when the pig-iron is converted to steel.

5. Gas Works

Gas works plants are for the production of town gas/gas work gas by carbonization (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 carbonization 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 convert (transform) crude oil and other hydrocarbons into finished petroleum products.

10. Petrochemical Industry

Petrochemical industries are industrial plants that produce raw materials for the manufacturing of plastics, synthetic fibers and rubbers, fertilizers, pesticides, detergents and solvents. 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 where the calorific value of natural gas for distribution is adjusted through blending with gases from oil and/or coal.

13. Charcoal Production Plants

Charcoal plants are facilities where charcoal, a solid

residue, is produced from the destructive distillation and pyrolysis of wood and other vegetable material.

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 and NACE Divisions 10, 11, 12, 23 and 40. 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 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 includes consumption for both energy and 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 271 and Class 2731. 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. (NACE Divisions 27.1, 27.2, 27.3, 27.51, and 27.52).

1.2 Chemical including Petrochemical

Refers to ISIC Division 24 (NACE Division 24).

- Includes manufacture of basic chemicals (ISIC 241)
- Other chemical products (ISIC 242), Man-made fibers (ISIC 243)

1.3 Non-ferrous Metals

Refers to ISIC Group 272 and Class 2732. (NACE Division 27.4, 27.53 and 27.54).

- Manufacture of precious and non-ferrous metals (ISIC 272)
- Casting of non-ferrous metals (2732)

1.4 Non-metallic Minerals Products

Covers ISIC Division 26, i.e.: Glass, ceramic, cement and other building materials industries. (NACE Division 26).

- Manufacture of glass and glass products (ISIC 261)
- Non-metallic mineral products (ISIC 262) such as ceramics, tiles, baked clay products and cement

1.5 Transport Equipment

Covers ISIC Division 34 and 35. (NACE Division 34 and 35), i.e.:

- Manufacture of motor vehicles (ISIC 341) bodies for motor vehicles and semi-trailers (ISIC 342)
- Parts and accessories for motor vehicles (ISIC 343)
- Shipbuilding and repair (ISIC 345)
- Railway and tramway locomotives (ISIC 352)
- Aircraft and spacecrafts (ISIC 353)
- Transport equipment not elsewhere classified (ISIC 359)

1.6 Machinery

Refers to Fabrication of metal products, machinery and equipment other than transport equipment. ISIC Division 28, 29, 30, 31 and 32. (NACE Division 28, 29, 30, 31 and 32)

- Structural metal products (ISIC 281)

- Other fabricated metal products (ISIC 289)
- General purpose machinery (ISIC 291)
- Special purpose machinery (ISIC 292)
- Domestic appliances (ISIC 293)
- Office, accounting and computing machinery (ISIC 300)
- Electric motors, generators and transformers (ISIC 311)
- Electricity distribution and control apparatus (ISIC 312)
- Insulated wire & cable (ISIC 313),
- Accumulators, primary cells and batteries (ISIC 314)
- Electric lamps and lighting equipment (ISIC 315),
- Other electrical equipment (ISIC 319),
- Electric valve, tubes and other conductors (ISIC 321),
- Television and radio transmitters (ISIC 322),
- Television and radio receivers, sound or video recording reproducing apparatus and associated goods (ISIC 323)

1.7 Mining (excluding energy producing industries) and Quarrying

Refers to ISIC Divisions 13 and 14. (NACE 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 Processing, Beverages and Tobacco

Refers to ISIC Division 15 and 16. (NACE Divisions 15, 16), i.e.:

- Production, processing and preservation of meat, fish, fruit, vegetables (ISIC 151)
- Manufacture of dairy products (ISIC 152)
- Manufacture of grain mill products, starches and starch products and animal feeds (ISIC 153)
- Manufacture of other food products (ISIC 154)
- Manufacture of beverages (ISIC 155)

- Manufacture of tobacco products (ISIC 160)

1.9 Pulp, Paper and Printing

Refers to ISIC Division 21 and 22. (NACE 21, 22)

Includes production of recorded media.

- Paper and paper products (ISIC 210)
- Publishing (ISIC 221)
- Printing and printing related activities (ISIC 222)
- Reproduction of recorded media (ISIC 223)

1.10 Wood and Wood products (other than pulp and paper)

Refers to ISIC Division 20. (NACE Division 20), i.e.:

- Sawmill and planing of wood (ISIC 201)
- Wood products, cork, straw and plaiting materials (ISIC 202)

1.11 Construction

Refers to ISIC Division 45. (NACE Division 45), i.e.:

- Site preparation (ISIC 451)
- Building of complete construction (ISIC 452)
- Building installation (ISIC 453)
- Building completion (ISIC 454)
- Renting of construction or demolition equipment (ISIC 455)

1.12 Textile and Leather

Refers to ISIC Divisions 17, 18 and 19. (NACE Divisions 17, 18, 19), i.e.:

- Spinning, weaving and finishing of textiles (ISIC 171)
- Manufacture of other textiles (ISIC 172)
- Manufacture of knitted and crocheted fabrics and articles (ISIC 173)
- Manufacture of wearing apparel except fur apparel (ISIC 181)
- Dressing and dyeing of fur; manufacture of articles of fur (ISIC 182)

1.13 Not elsewhere specified

If your economy's industrial classification does not correspond to the above ISIC or NACE codes, 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 25, 33, 36 and 37. (NACE Divisions 25, 33, 36 and 37), i.e.:

- Rubber products (ISIC 251)
- Plastic products (ISIC 252)
- Medical appliances and instruments (ISIC 331)
- Optical instruments and photographic equipment (ISIC 332)
- Watches and clocks (ISIC 333), Furniture (ISIC 361)
- Others manufacturing not elsewhere classified (ISIC 369)
- Recycling of metal waste and scrap (ISIC 371)
- Recycling of non-metal waste and scrap (ISIC 372)

2. Transport Sector

All transport activities irrespective of the economic sector in which the activity occurs. Refers to ISIC and NACE categories: Divisions 60, 61 and 62.

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 41, 50, 51, 52, 55, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 80, 85, 90, 91, 92, 93 and 99. (NACE Divisions 50, 51, 52, 41, 55, 63, 64, 65, 66, 67, 70, 71, 72, 74, 75, 80, 85, 90, 91, 92, 93, 99).

3.2 Residential

Refers to all households including "households with employed persons." ISIC Division 95 (NACE Division 95).

3.3 Agriculture

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

3.4 Fishing

Refers to aquaculture and fisheries. Includes ocean, coastal and inland fishing. ISIC Division 05 and NACE 05. This class includes: fishing on a commercial basis in ocean, coastal or inland waters; taking of marine and freshwater crustaceans and mollusks; whale catching; hunting of aquatic animals: turtles, sea squirts, tunicates, sea urchins etc. This class also includes: activities of vessels engaged both in fishing, and in processing and

preserving of fish; gathering of marine materials: natural pearls, sponges, coral and algae; and service activities incidental to fishing.

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 fertilizer 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

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

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 (Row10) + Autoproducers (Row11) + Gas Processing (Row12) + Petroleum Refineries (Row13) + Coal Transformation (Row14) + Other Transformation (Row15)*.

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 auto-producers as negative entries. An auto-producer 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 consumption by the different end-use sectors. In final consumption, petrochemical feedstocks as well as natural gas for producing fertilizer are shown under industry sector.

Row 19: Consumption of the Industry sector (energy used for transport by industry is not included here but reported under transport).

Row 20: Iron and Steel Covers ISIC Group 271 and Class 2731. 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. (NACE Divisions 27.1, 27.2, 27.3, 27.51, and 27.52).

Row 21: Chemical & Petrochemical Refers to ISIC Division 24 (NACE Division 24).

Includes manufacture of basic chemicals (ISIC 241)

Other chemical products (ISIC 242), Man-made fibers (ISIC 243)

Row 22: Non-metallic Minerals covers ISIC Division 26, i.e.: Glass, ceramic, cement and other building materials industries. (NACE Division 26).

Manufacture of glass and glass products (ISIC 261)

Non-metallic mineral products (ISIC 262) such as ceramics, tiles, baked clay products and cement

Row 23: Other Industries cover consumption of all other manufacturing industries, mining, quarrying and constructions.

Row 24: 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 25: 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 26: 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" below.

Row 27: Rail refers to rail traffic, including industrial railways.

Row 28: 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 29: Pipeline Transport refers to transport of goods through pipelines.

Row 30: Non-Specified Industry covers 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 95 (NACE Division 95).

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. Feedstocks for the petrochemical industry are accounted for in industry (row 21). 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. 10^{10} kilocalories = 1 Mtoe

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 2013

	Australia	Brunei	Canada	Chile	China	Hong Kong, China	Indonesia	Japan	Korea
Coal									
Coking Coal	6,807		5,997	6,829	6,170			6,581	6,740
Anthracite	6,377		6,301		6,414	6,998		6,104	4,766
Other Bituminous Coal	6,138		6,642	6,023	4,617	6,298		5,832	5,890
Sub-bituminous Coal	4,413		4,163				5,880	5,109	5,100
Lignite	2,341		3,412		2,923				
Peat									
Coal Products									
Patent Fuels								6,333	4,450
Coke Oven Coke	6,449		6,558	6,829	6,800			6,672	6,900
Coal Tar				9,984	8,000				
Coal Briquettes	5,015				4,250		4,740		
Crude Oil and NGL									
Crude Oil	10,506	10,748	10,220	10,307	10,000			10,139	10,199
Natural Gas Liquids	10,846	10,900	10,801	11,487				11,205	
Refinery Feedstocks	10,338		10,151					10,347	10,700
Additives/Oxygenates	7,047	9,597	6,832						
Other Hydrocarbons			10,000		10,000				
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	10,999	11,934	11,529	11,393
Naptha	10,318		10,748	10,748	9,176	10,540	11,064	10,347	10,318
Motor Gasoline	10,653	10,688	10,700	10,700	10,300	10,217	11,064	10,654	10,653
Bio-ethanol	6,401		6,401		10,300				
Aviation Gasoline	10,653		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	10,631	10,629
Other Kerosene	10,247	10,648	10,461	10,461	10,300	10,522	10,212	10,232	10,247
Gas/Diesel Oil	10,175	10,361	10,175	10,342	10,200	10,150	9,166	10,338	10,175
Bio-diesel	10,175	10,361	10,175	10,342	10,200	10,150	9,166	10,338	10,175
Fuel Oil	10,175	9,716	9,602	9,602	10,000	9,912	10,319	10,566	10,175
White Spirit SBP	10,270		10,270		9,176				10,270
Lubricants	10,247	9,984	10,032		9,176		9,996	10,242	10,247
Bitumen	9,267	9,554	9,554		9,176				9,267
Paraffin Wax					9,176		9,996		9,554
Petroleum Coke	8,073		7,643	7,643	7,350			6,785	8,073
Other Products	9,554	11,023	9,554	9,554	9,310		9,996	9,288	9,554
Natural Gas									
Natural Gas	8,462	9,189	8,351	8,430	9,310	9,240	8,885	8,407	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		7,357	7,357		6,998		6,898	7,357
Other Biomass	3,701		3,701	3,701			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	7,047		6,832		10,233	9,028	9,690		9,126

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 2013 (continued)

kcal/kg (kcal/m ³ for Natural Gas)											
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	The Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam (2012)
	6,800	7,172				6,807		6,660		6,710	
	6,319					6,927		6,745	7,500	6,865	5,600
		6,736		6,500		5,734		5,674	6,300	6,180	
6,300	4,843	4,910			5,278			4,672		4,516	
	2,665	3,471				3,563		3,957	2,500	3,304	
						2,380					
								3,610			
	6,637			6,735		6,930	5,600	6,650	6,600	6,894	
	4,299								6,300		
2,498	10,693	10,316	10,120	10,271	9,905	10,050	10,709	10,442	10,089	10,413	10,180
	9,822	10,938	10,120	10,601	7,694	10,010			11,757	11,091	
		10,524								9,776	
		6,894		9,685							
10,150	10,000									12,182	
10,150	11,488	11,488	10,515	14,992		11,823		14,996		11,488	
	11,799									11,799	
10,878	11,297	11,393	11,393	11,080	10,760	10,987	11,923	11,893	11,778	11,297	10,900
	10,748		10,500	10,402	11,031	10,509	11,923	10,924		10,748	10,300
10,500	10,700	10,653	10,654	10,098	10,570	10,509	11,174	10,494	10,450	10,700	10,500
		6,894		6,351	7,083			10,494	10,450	6,388	
	10,700	10,653			10,894	10,509	11,174	10,669		10,700	
								10,485			
10,318	10,653	10,629	10,632	10,231	9,957	10,270	12,425	10,038	11,675	10,653	10,300
10,318	10,461	10,247	10,233	10,231	9,855		11,140	10,600	10,310	10,461	10,300
10,150	10,175	10,175	10,284	9,847	10,049	10,175	10,957	10,066	10,236	10,175	10,200
10,150	10,175	10,175	10,284	9,847	10,049	10,175	10,957	10,066	10,236	10,175	
9,912	9,602	10,175	10,520	10,381	9,819	9,554	9,839	10,027	10,105	9,602	9,900
		10,270				10,414	10,320	11,538		10,270	
	10,032	10,247	10,240			10,032	10,320	9,600		10,032	10,300
	9,554	9,267			9,248	9,315	10,320	10,000		9,554	10,300
	9,554					9,554	10,320	10,664		9,554	
	7,643	8,073	8,078			7,643	10,320	8,200		7,643	10,300
10,150	9,554	9,554	9,602	10,402	9,864		10,320	12,496	10,000	9,554	10,300
9,374	8,139	8,398		8,691	8,737	8,218	8,385	9,000	8,617	8,221	9,000
	3,701	3,701		3,598	3,455	3,701		3,039	3,820	3,701	2,388
	1,958	1,958		1,499	2,166	1,958			1,800	1,958	
	7,357	7,357		6,558	6,313	7,357			6,900	7,357	
1,125	3,701	3,701		3,596	3,163	3,701	3,344		3,030	3,701	
1,125								3,690	5,000		
	3,343	3,343				3,343			1,160	3,343	
	3,343	3,343			3,344	3,343	3,344	2,092	1,160	3,343	
		6,479		10,490	8,618			9,000	10,334	6,803	