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Economic Cooperation

APEC

ENERGY STATISTICS 2011

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COORDINATING AGENCY:
THE ENERGY DATA AND MODELLING CENTER
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PREFACE

The APEC Energy Statistics 2011 consists of the following chapters:

1. Explanation of 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; the United States of America 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 2011 and 2010 and Energy Prices for 2011. 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 2011. The objective is to report the most recently updated data.

APEC Energy Statistics 2011 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

The APEC Energy Statistics consist of energy data submitted by each member economy as well as socio-economic data collected by EDMC (The Energy Data and Modelling Center), the Coordinating Agency (hereinafter referred to as C.A.) for this APEC activity. The 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 EDMC.

1.1 Energy Data

1.1.1 Original Data

The APEC member economies regularly submit energy demand and supply data to EDMC. 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) that was developed in 2005 for the collection of annual data for the year 2004. These questionnaires are simplified forms of the annual energy questionnaires of the International Energy Agency (IEA) in view of the harmonization efforts of the C.A. with the IEA. Table 1-1a and 1-1b show the energy product 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 type 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, Solid Coal Products	1,000 Metric Tons
Gaseous Coal Products	10 ¹⁰ kcal (gross)
Oil and Oil Products	1,000 Metric Tons
Natural Gas	Million Cubic Meters
LNG	1,000 Metric Tons
Solid and Liquid Bio-fuels	1,000 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 MW.

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

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

<p>Coal</p> <ul style="list-style-type: none"> Coking Coal Other bituminous coal Sub-bituminous Coal Anthracite Lignite Peat <p>Coal Products</p> <ul style="list-style-type: none"> Coke Oven Coke Coke Oven Gas Blast furnace Gas Oxygen Steel furnace Gas Patent Fuel Coal Tar BKB/PB Gas Works Gas <p>Crude Oil & NGL</p> <ul style="list-style-type: none"> Crude Oil Natural Gas Liquids Refinery Feedstocks Additives / Oxygenates Other Hydrocarbons <p>Gas</p> <ul style="list-style-type: none"> Natural Gas LNG 	<p>Crude Oil & NGL</p> <ul style="list-style-type: none"> Crude Oil Natural Gas Liquids Refinery Feedstocks Additives / Oxygenates Other Hydrocarbons <p>Petroleum Products</p> <ul style="list-style-type: none"> Gasoline Motor Gasoline Aviation Gasoline Naphtha Jet Fuel Gasoline Type Jet Fuel Kerosene Type Jet Fuel Kerosene Gas/Diesel Oil Fuel Oil LPG Refinery Gas (not liq.) Ethane White Spirit SBP Lubricants Bitumen Paraffin Waxes Petroleum Coke Other Products 	<p>Hydro</p> <p>Nuclear</p> <p>New and Renewable Energy</p> <ul style="list-style-type: none"> Geothermal Photovoltaic Tide, Wave and Ocean Wind Geothermal Heat Solar Heat Fuel Wood and Woodwaste Bagasse Charcoal Other Biomass Biogas Industrial Waste Municipal Solid Waste Liquid Bio-fuels <p>Electricity</p> <p>Heat</p>
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b. Collection Schedule and Actual Dates of Submission

The C.A. set the deadline for submission to end of December 2012. In principle, all twenty-one APEC members are expected to submit annual data on the aforementioned deadline. Hong Kong, China and Thailand were able to submit the 5 energy questionnaires by the deadline. Seven non-OECD APEC economies submitted after December 2012. Papua New Guinea, Peru and Viet Nam did not submit the questionnaires.

For Papua New Guinea, the C.A. estimated their energy

data using various references such as the JODI Oil data and the annual report of Oil Search Limited, an oil company based in the economy. For Peru, the C.A. sought the assistance of the IEA to obtain the economy's energy balance table.

Singapore submitted the questionnaires but the data lack the level of details that the energy balance table requires. Therefore, most of the data were estimated by the C.A.

Viet Nam did not provide the energy data for 2011. In view of the absence of available references, the C.A. is

not able to estimate the economy's 2011 energy balance table. Therefore, the C.A. excluded the historical data of Viet Nam from the analysis in chapter 2. There will also

be no energy balance table for Viet Nam for 2011 in chapter 3.

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

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

As of June 30, 2013, 18 APEC economies have submitted data to the C.A., one economy more than the 17 that submitted last year. There was no submission from Peru. C.A. obtained their energy data from the IEA. Of the remaining two economies, Papua New Guinea submitted crude oil production as part of its monthly Joint Organisations Data Initiative (JODI) Oil submission, exports as well as refinery input and output data while Viet Nam did not submit any data at all.

The C.A. took measures to be able to generate energy balance tables for Papua New Guinea and Singapore. For the former, the C.A. estimated the final energy consumption, electricity generation and inputs as well as imports of petroleum products. For Singapore, the C.A. has to rely on the electricity and gas data downloaded from the website of the Energy Market Authority and the international marine bunker sales from Singapore Ports Authority website. Oil data are also calculated based on the oil trade data submitted by Singapore to the JODI. The C.A. will highly appreciate if Singapore does the estimation of the data in the future.

d. Use of the Internet

The advances in internet technology had enabled the submission of all energy data as 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 1,000 metric tons unit. Before the 2004 data, each economy uses its own units such as barrels, kiloliters, cubic meters, etc. The C.A. 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 C.A. 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 those of the IEA and UNSD. Therefore, gross calorific values used by some members must be converted to net calorific values. If only the gross calorific values are reported, the C.A. 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

which excludes 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 conversion coefficients for compatibility with IEA and UN statistics.

Table 1-2: Efficiency of Primary Electricity

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

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, C.A. 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 Tables give 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 data obtained from the original data tables after adjustment and the energy balance tables. 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 C.A. accepts submission from OECD members using the IEA format. Likewise, to reduce the burden on member economies' statisticians, the C.A. decided that to leave to IEA the data negotiation with the APEC OECD member economies 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. C.A. 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

C.A. estimated energy balance tables from 2005 to 2011 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.

c. Peru

Peru used to submit the annual data using the APEC format. However, the economy was not able to submit the 2011 data for reasons not explained to the C.A. To be able to produce Peru's energy balance and other tables, the C.A. obtained the energy balances from the IEA.

d. Singapore

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

C.A. estimated the energy balance tables for Singapore from 1990 to 2011.

C.A. 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).

Some erroneous data are corrected by using the IEA energy balance data, data from Energy Market Authority in Singapore, and the socioeconomic indicators (ex: GDP, etc.).

1.5 Socioeconomic 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 C.A. 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 delivered to C.A. through the goodwill of this member. The items C.A. picks up from these statistics are:

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

The GDP data of Brunei from 1996 are also derived from the “Brunei Darussalam Statistical Yearbook” which is also provided by this member economy to the C.A. through its goodwill.

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

1.6 APEC Energy Database

C.A. 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. 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 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:

Incineration and commercial renewable energy

Regional groupings of APEC member economies are as follows:

a. East Asia and Russia:

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

b. Southeast Asia

Brunei Darussalam, Indonesia, Malaysia, Philippines, Singapore and Thailand

c. Oceania:

Australia, New Zealand and Papua New Guinea

d. North America:

Canada and the United States of America

e. Latin America:

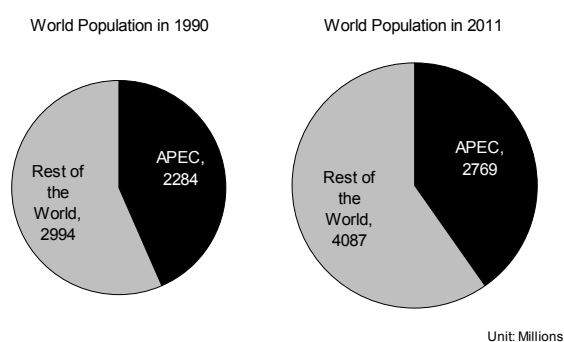
Chile, Mexico and Peru

From 2004, APEC collected the member economies' annual energy data using a new format which resulted to 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, Thailand and Viet Nam which were not reported before 2004 were excluded in this analysis.

2.2 APEC and the World

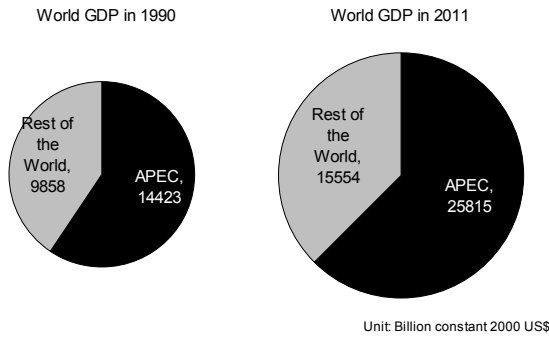
APEC population grew at an average annual rate of 0.9% from 1990 to 2.77 billion in 2011. On the other hand, that of the rest of the world grew by 1.5% per year from 2.99 billion to 4.09 billion during the same period. In view of this, APEC's share of the total population decreased to 40.4% in 2011 from 43.3% in 1990.

APEC's share of the world GDP (constant 2000 in US\$) increased from 59.4% in 1990 to 62.4% in 2011. The average growth rate of GDP in APEC from 1990 to 2011 is 2.8% per annum.



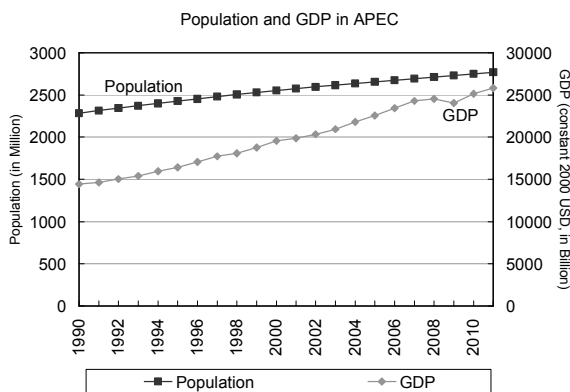
Source: World Bank

Population in 1990 and 2011

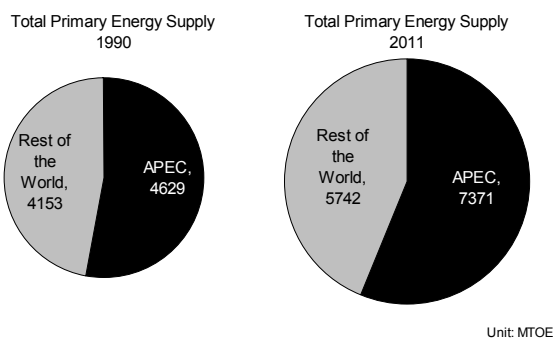


Source: World Bank

GDP in 1990 and 2011



In 1990, APEC's share in the world total primary energy supply was 52.7% (4,629 Mtoe). This increased to 56.2% (7,371 Mtoe) in 2011 and could be attributed to the faster economic growth in the region relative to the rest of the world.



Source: APEC, IEA

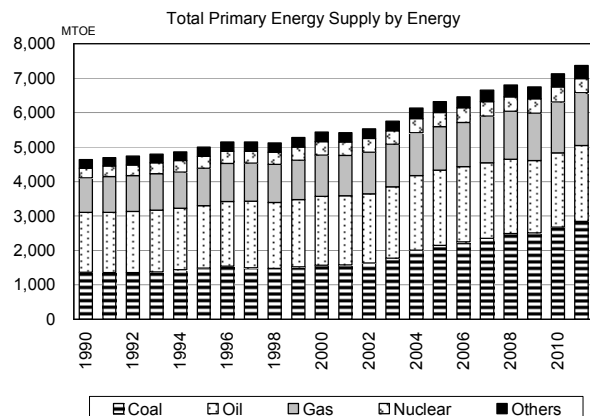
Total Primary Energy Supply in 1990 and 2011

2.3 Energy Supply in APEC

2.3.1 Total Primary Energy Supply

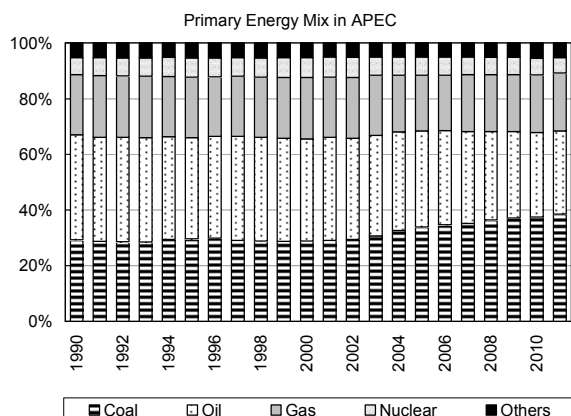
The level of primary energy supply in 2011 of 7,371 Mtoe increased by 3.4% from the 2010 level of 7,126 Mtoe. In the period 1990 to 2011, primary energy supply had an average growth rate of 2.2% per annum.

During the same period, coal supply rose at an average rate of 3.6% per annum to reach 2,842 Mtoe. Oil supply rose at an average rate of 1.1% per annum to reach 2,205 Mtoe, increased by 2.0% from 2010. Gas supply increased by 2.1% per annum to reach 1,537 Mtoe. The supply of nuclear grew by 1.7% per annum to reach 402 Mtoe. Other energy, which includes hydro and other renewable energy, grew by 2.3% per annum although their total remained small at 385 Mtoe.



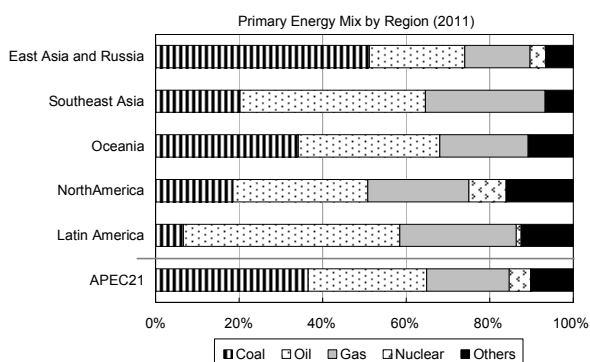
- Primary Energy Mix

The APEC primary energy mix has changed over time from 1990 to 2011. The share of coal, which was 29.3% in 1990, increased to 38.6% in 2011. In contrast, the share of oil decreased to 29.9% in 2011 from 37.8% in 1990. The share of nuclear energy in 2011 is 5.5% in 2011, which is the smaller than the share in 1990 (6.1%).



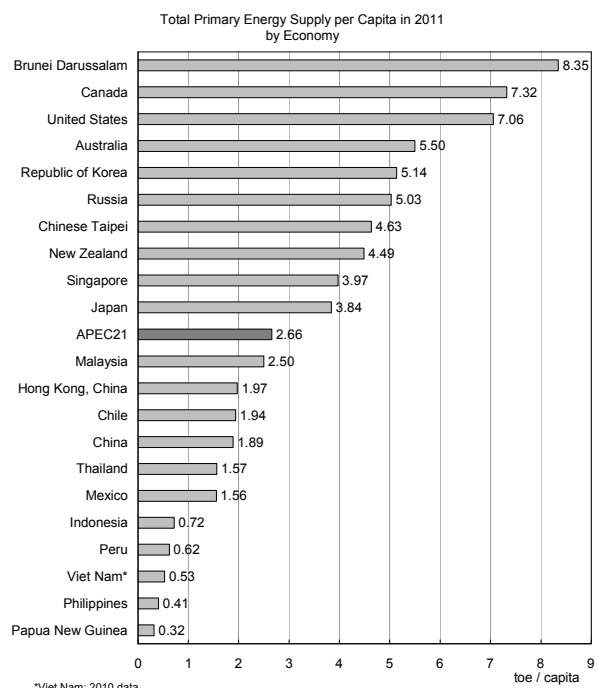
- Primary Energy Mix by region

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 (44.4%) and Latin America (52.4%). The share of nuclear energy in North America was higher than other regions, at 9.7% in 2011.



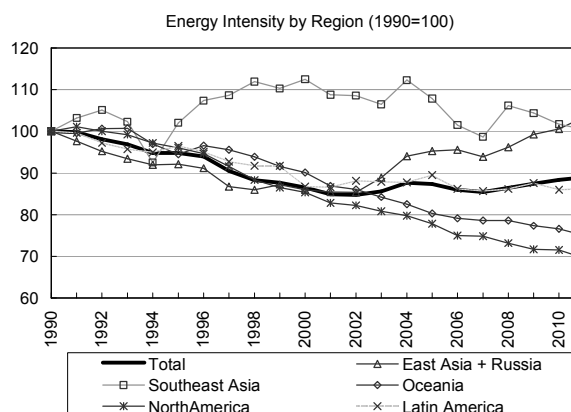
- Total Primary Energy Supply per Capita

The average primary energy supply per capita in APEC region was 2.66 toe per capita in 2011. OECD member economies have higher than average values. In contrast, several Southeast Asian and Latin American economies have lower values.



- Energy Intensity

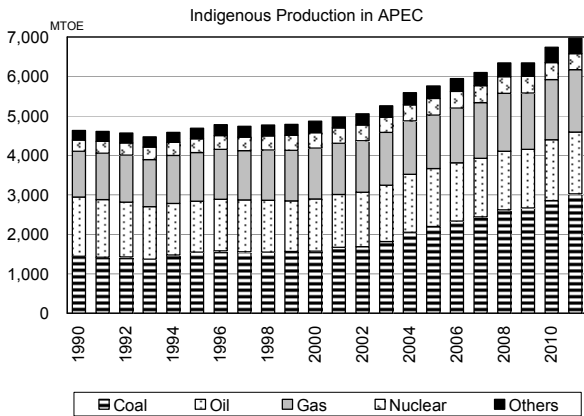
The energy intensity (*Total Primary Energy Supply / GDP in constant 2000 USD*) was 285.5 toe/mill USD in 2011, a 0.6% decrease per annum from 1990. From 1990 to 2011, energy intensity increased in East Asia and Russia, and Southeast Asia, but has decreased in rest of the regions.



2.3.2 Indigenous Production

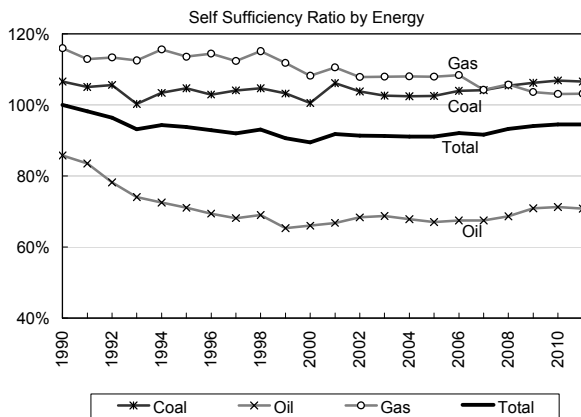
Indigenous energy production in 2011 of 6,970 Mtoe increased by 3.4% from the 2010 level of 6,738 Mtoe. In the period of 1990 to 2011, indigenous production had an

average growth rate of 2.0% per annum.



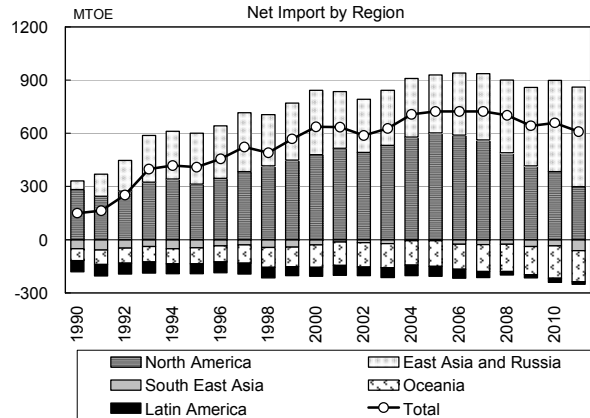
- Self Sufficiency

The self sufficiency ratio (*Indigenous Production / Total Primary Energy Supply*) of the APEC region was 100.1% in 1990 but has decreased to 94.6% in 2011. Self sufficiency ratios in coal and gas are over 100%. Self sufficiency ratio in oil is only 70.8% in 2011 decreasing from 85.8% in 1990.



2.3.3 Net Import by Region

Net import (*import – export*) in the APEC region was 609 Mtoe in 2011, increasing by 6.9% 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 Latin America, net import was negative.

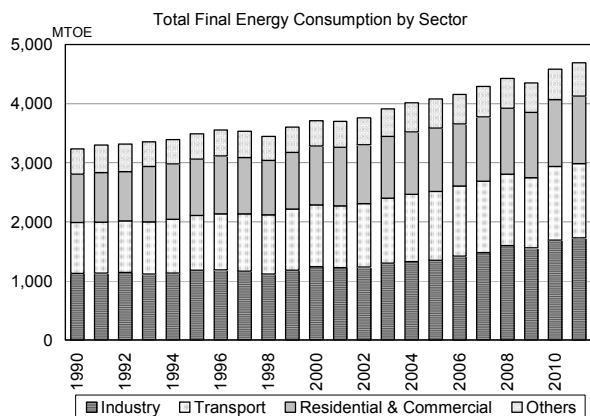


2.4 Energy Consumption in APEC

2.4.1 Total Final Energy Consumption by Sector

The level of final energy consumption in 2011 of 4,692 Mtoe increased by 2.4% from the 2010 level of 4,584 Mtoe. The growth rate was 1.8% per annum from 3,232 Mtoe in 1990.

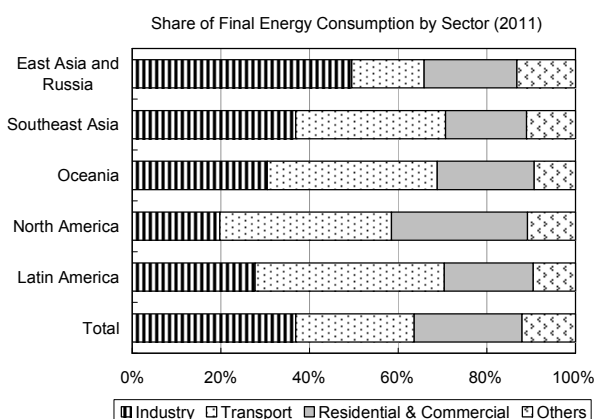
Consumption in industry sector of 1,729 Mtoe was the largest for all sectors in 2011 with a share of 36.8% to the total final consumption. The transport sector share was 26.8% while the residential/commercial sector share was 24.4%.



The final energy consumption of the residential/commercial sectors increased by 1.2%, from 1,130 Mtoe in 2010 to 1,143 Mtoe in 2011. The transport sector consumption also increased by 1.1% from 1,242 Mtoe in 2010 to 1,256 Mtoe in 2011. Industrial sector

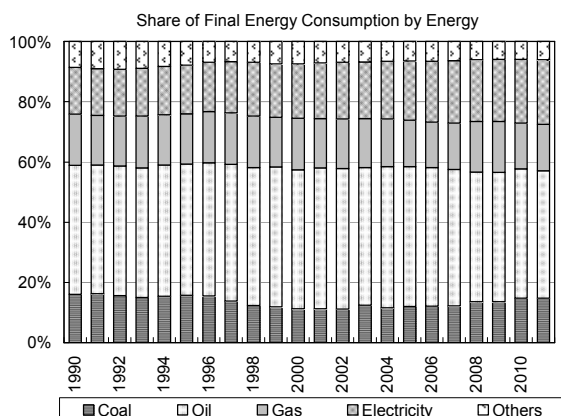
consumption increased by 2.0% per annum from 1,130 Mtoe in 1990 to 1,729 Mtoe in 2011.

In East Asia and Russia region, consumption in industry sector of 1,222 Mtoe was the largest for all sectors in 2011 with a share of 49.6% to the total final consumption. In North American region, industry share was only 19.8% while the transport sector took the highest share of 38.6% in 2011.



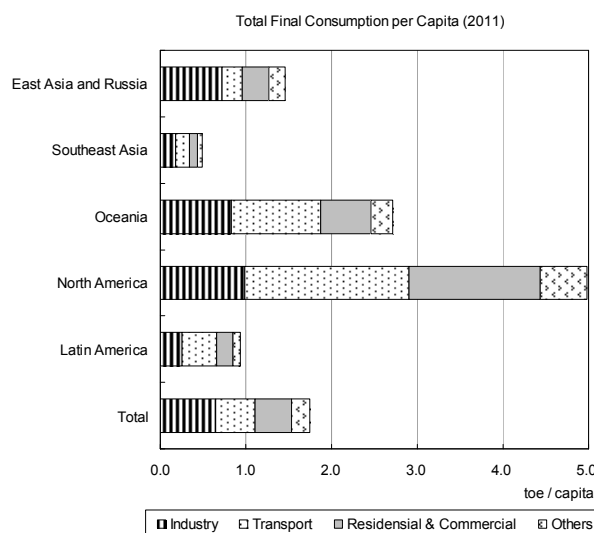
2.4.2 Final Energy Consumption by Energy

In 2011, oil share in the final energy consumption was 42.3% (1,987 Mtoe). Electricity share was 21.5% (1,007 Mtoe) increasing from 15.5% (502 Mtoe) in 1990.



2.4.3 Final Consumption per Capita

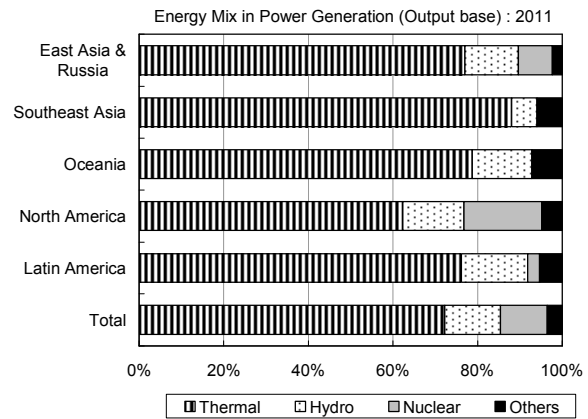
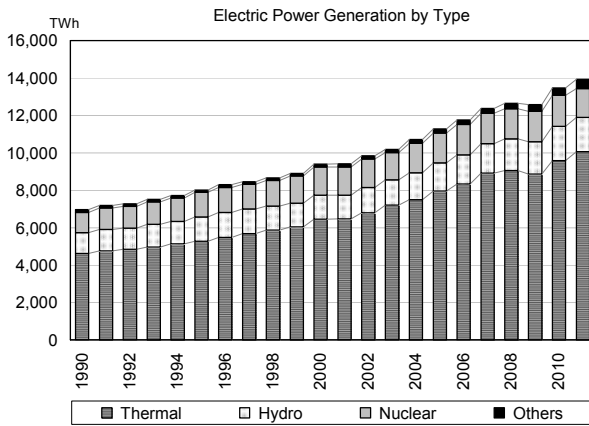
Total final consumption per capita was 1.74 toe in 2011. In Southeast Asia, final energy consumption per capita is 0.49 toe per capita, the lowest in APEC. In Oceania and North American, final energy consumption per capita were higher; 2.72 toe per capita in Oceania and 4.97 toe per capita in North America.



2.5 Power Generation

2.5.1 Power Generation Output

Power generation increased by 3.4% from 13,474 TWh in 2010 to 13,938 TWh in 2011. From 1990 to 2011, power generation grew at an average rate of 3.4% per annum (from 6,962 TWh). Thermal power generation increased by 4.9% from 9,596 TWh in 2010 to 10,069 TWh in 2011. The share of thermal power generation increased to 72.2% of the total in 2011 from 66.5% in 1990. Nuclear power generation decreased by 7.1%, from 1,662 TWh in 2010 to 1,544 TWh in 2011. Hydropower generation rose by 0.3% from 1,821 TWh in 2010 to 1,826 TWh in 2011.



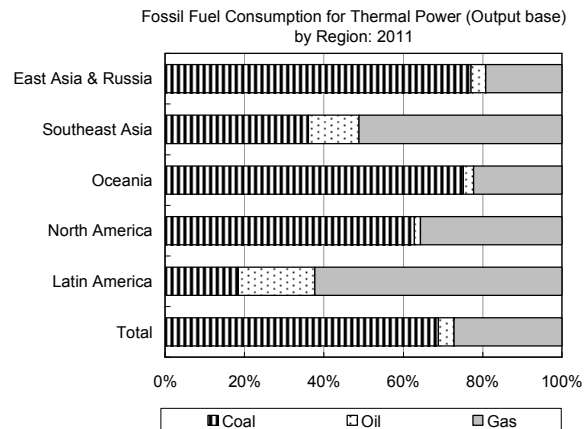
- Power Generation Mix by Region

In APEC region, 72.2% are from thermal generation (coal, oil and natural gas), 13.1% by hydro and 11.1% by nuclear energy in 2011.

In East Asia and Russia region, the share of thermal energy is 77.0%, while that of nuclear energy was 8.0%. In Southeast Asia and Oceania, most of electricity was generated from thermal sources and there are no nuclear power generation. In North America, 18.4% are generated by nuclear energy. In Latin America, the share of hydro of 15.7% was higher than the APEC average of 13.1% in 2011.

2.5.2 Fossil Fuel Consumption for Thermal Power

In 2011, 68.8% of electricity was generated by coal, 4.0% by oil and 27.3% by natural gas. In Southeast Asia and Latin America, gas was the largest energy source for thermal power generation.



APEC Region	2011												Unit: Mtoe
	1 Coal	2 Coal Products	3 Crude Oil, NGL and	4 Petroleum Products	5 Gas	6 Hydro	7 Nuclear	8 Geothermal, Solar	9 Others	10 Electricity	11 Heat	12 Total	
1 Indigenous Production	3,031	-	1,555	6	1,586	159	402	68	161	-	-	6,970	
2 Import	371	10	1,331	473	339	-	-	-	1	8	-	2,534	
3 Export	-517	-5	-526	-485	-379	-	-	-	-3	-10	-	-1,925	
4 International Marine Bunkers	-0	-	-	-101	-	-	-	-	-	-	-	-101	
5 International Aviation Bunkers	-	-	-	-66	-	-	-	-	-	-	-	-66	
6 Stock Change	-33	-15	11	7	-10	-	-	-	-0	-	-	-41	
7 Total Primary Energy Supply	2,853	-11	2,371	-166	1,537	159	402	68	160	-2	-	7,371	
8 Main Activity Producer	-1,545	-7	-8	-62	-540	-155	-402	-64	-24	1,104	113	-1,590	
9 Autoproducter	-170	-34	-1	-28	-124	-4	-	-1	-29	98	133	-159	
10 Gas Processing	-7	-1	-	-3	-10	-	-	-	-	-	-	-21	
11 Petroleum Refineries	-	-	-2,297	2,343	-	-	-	-	-	-	-	45	
12 Coal Transformation	-435	214	-	-1	-0	-	-	-	-	-	-	-222	
13 Other Transformation	-	-	38	-65	-6	-	-	-0	-29	-	-	-63	
14 Loss & Own Use	-57	-18	-10	-108	-142	-	-	-0	-0	-191	-45	-571	
15 Discrepancy	-84	-8	-15	-9	6	-0	-	-0	4	-3	-0	-108	
16 Total Final Energy Consumption	555	137	10	1,978	721	-	-	3	82	1,007	201	4,692	
17 Industry Sector	485	130	1	246	276	-	-	0	48	463	100	1,729	
18 Transport Sector	3	0	0	1,167	67	-	-	-	-	19	-	1,256	
19 Other Sector	87	6	0	248	316	-	-	3	33	525	102	1,321	
19.1 Residential & Commercial	66	6	0	158	313	-	-	3	33	471	94	1,143	
19.2 Agriculture	10	0	0	51	1	-	-	0	1	13	5	82	
19.3 Other	11	0	0	38	3	-	-	0	0	40	2	96	
20 Non-energy	-	-	8	317	62	-	-	-	-	-	-	387	

2.6 Energy Balance Table

This section presents the 2011 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.

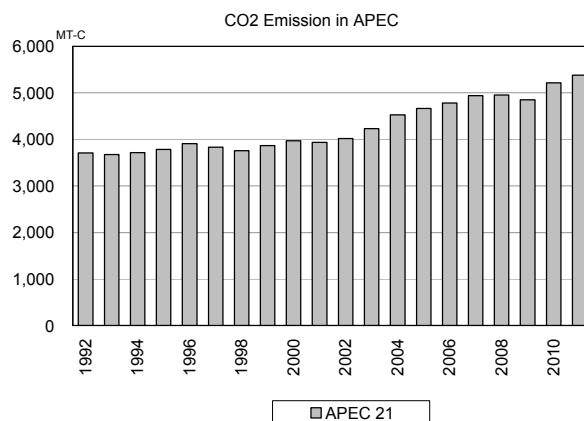
Some of the salient points on the table are:

- 60.1% 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 4.3% of final consumption.
- Oil and Petroleum Products accounted for 42.3% of total final energy consumption, followed in order, by electricity (21.5%), gas (15.4%), and coal (14.7%).

2.7 CO₂ Emissions

The CO₂ emission data for 2011 were collected from 6 member economies, namely: Canada; Chile; Japan;

Russia; Chinese Taipei; Thailand and United States. For the other member economies, the C.A. estimated the CO₂ emissions. Based on both of the data mentioned above, CO₂ emissions from fuel combustion increased by 3.2% from 5,212 Mt-C in 2010 to 5,377 Mt-C in 2011, or 2.0% per annum from 3,711 Mt-C in 1992.



3 Member Tables

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	
2011									
Indigenous Production	222,087	-	23,092	9	-	-	-	-	9
Import	-	-	25,955	14,821	2,074	-	1,756	-	7,533
Export	-183,584	-	-16,469	-2,198	-151	-	-10	-	-101
International Marine Bunkers	-	-	-	-624	-	-	-	-	-43
International Aviation Bunkers	-	-	-	-3,431	-	-	-3,431	-	-
Stock Changes	9,689	-46	576	-351	-66	13	-49	-1	-112
Total Primary Energy Supply	48,193	-46	33,154	8,227	1,857	13	-1,734	-1	7,286
Transfers	-	-	33	4,305	-	-	-	-	-
Total Transformation Sector	-45,340	1,726	-33,689	29,863	13,517	166	4,620	11	10,474
Main Activity Producer	-41,739	-28	-	-86	-	-	-	-	-67
Autoproducers	-	-73	-	-701	-	-	-	-	-539
Gas Processing	-	-	-	-7	-	-	-	-	-
Petroleum Refineries	-	-	-33,983	33,447	13,517	166	4,620	11	11,081
Coal Transformation	-3,601	1,827	-	-	-	-	-	-	-
Other Transformation	-	-	295	-2,790	-	-	-	-	-
Loss & Own Use	-	-738	-56	-3,470	-	-	-	-11	-1,778
Discrepancy	-806	-4	572	1,108	-921	-180	-359	18	-335
Total Final Energy Consumption	2,047	938	14	40,033	14,452	-	2,528	17	15,648
Industry Sector	1,916	920	14	4,063	3	-	-	4	2,220
Iron and Steel	15	740	-	11	-	-	-	-	10
Chemical & Petrochemical	134	35	-	152	-	-	-	2	110
Non-metallic Minerals	557	9	-	970	-	-	-	1	17
Other Industries	1,210	137	14	2,929	3	-	-	1	2,083
Transport Sector	121	-	-	29,197	14,295	-	2,528	-	10,997
Domestic Air Transport	-	-	-	2,587	60	-	2,528	-	-
Road	-	-	-	24,995	14,236	-	-	-	9,523
Rail	-	-	-	878	-	-	-	-	877
Inland Waterways	121	-	-	701	-	-	-	-	564
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	36	-	-	-	-	34
Other Sector	10	19	-	2,978	153	-	-	8	2,431
Residential	-	1	-	293	-	-	-	-	25
Commerce and Public Services	10	18	-	625	-	-	-	7	542
Agriculture	-	-	-	2,060	153	-	-	1	1,863
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	3,795	-	-	-	5	-
2010									
Indigenous Production	236,169	-	23,906	7	1	-	-	-	6
Import	-	-	22,319	15,827	3,036	-	1,826	-	7,398
Export	-189,910	-	-15,152	-2,442	-197	-	-61	-	-161
International Marine Bunkers	-	-	-	-706	-	-	-	-	-69
International Aviation Bunkers	-	-	-	-3,406	-	-	-3,406	-	-
Stock Changes	3,823	-43	-432	331	48	-14	36	3	-14
Total Primary Energy Supply	50,081	-43	30,641	9,612	2,888	-14	-1,604	3	7,160
Transfers	-	-	-802	4,805	-	-	-	-	-
Total Transformation Sector	-47,069	1,572	-31,973	28,644	13,594	165	4,523	29	9,430
Main Activity Producer	-43,708	-28	-	-219	-	-	-	-	-211
Autoproducers	-	-82	-	-566	-	-	-	-	-403
Gas Processing	-	-	-	-9	-	-	-	-	-
Petroleum Refineries	-	-	-32,219	31,864	13,594	165	4,523	29	10,044
Coal Transformation	-3,361	1,682	-	-	-	-	-	-	-
Other Transformation	-	-	247	-2,426	-	-	-	-	-
Loss & Own Use	-	-675	-84	-3,014	-	-	-	-1	-1,560
Discrepancy	-810	52	2,231	-894	-2,017	-151	-761	-13	196
Total Final Energy Consumption	2,203	906	13	39,153	14,466	-	2,158	17	15,227
Industry Sector	2,019	887	13	3,446	3	-	-	4	2,278
Iron and Steel	14	695	-	23	-	-	-	-	21
Chemical & Petrochemical	139	35	-	206	-	-	-	2	119
Non-metallic Minerals	580	9	-	281	-	-	-	1	43
Other Industries	1,285	148	13	2,937	3	-	-	1	2,095
Transport Sector	171	-	-	28,491	14,343	-	2,158	-	10,556
Domestic Air Transport	-	-	-	2,217	60	-	2,158	-	-
Road	-	-	-	24,702	14,284	-	-	-	9,144
Rail	-	-	-	847	-	-	-	-	842
Inland Waterways	171	-	-	692	-	-	-	-	537
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	34	-	-	-	-	32
Other Sector	13	19	-	3,036	119	-	-	8	2,393
Residential	-	1	-	279	-	-	-	-	26
Commerce and Public Services	13	18	-	624	-	-	-	7	541
Agriculture	-	-	-	1,988	119	-	-	1	1,825
Non-specified Others	-	-	-	144	-	-	-	-	-
Non-energy	-	-	-	4,180	-	-	-	5	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	44,754	1,445	-	837	4,021	-	-	296,246
1,439	518	-	-	1,501	5,611	-	-	-	-	-	-	46,387
-187	-1,535	-	-	-215	-23,338	-	-	-	-	-	-	-225,589
-581	-	-	-	-	-	-	-	-	-	-	-	-624
-	-	-	-	-	-	-	-	-	-	-	-	-3,431
-	3	-	-	-139	-	-	-	-	-	-	-	9,869
671	-1,013	-	-	1,147	27,028	1,445	-	837	4,021	-	-	122,858
-	2,092	-	354	1,859	-	-	-	-	-	-	-	4,338
830	858	916	-	-1,529	-11,125	-1,445	-	-574	-913	21,899	-	-39,598
-5	-	-	-	-13	-8,323	-1,445	-	-501	-302	20,403	-	-32,021
-131	-	-	-	-31	-2,474	-	-	-73	-298	1,496	-	-2,124
-	-7	-	-	-	-260	-	-	-	-	-	-	-267
969	869	916	-	1,298	-	-	-	-	-	-	-	-536
-	-	-	-	-	-68	-	-	-	-	-	-	-1,842
-2	-5	-	-	-2,783	-	-	-	-	-313	-	-	-2,809
-16	-15	-885	-27	-739	-12,100	-	-	-	-	-3,758	-	-20,121
-594	232	-0	27	3,219	9,204	-	-	0	0	-	-	10,074
890	2,154	31	354	3,958	13,007	-	-	262	3,108	18,140	-	77,551
750	237	31	-	817	7,597	-	-	-	1,722	7,031	-	23,263
-	1	-	-	-	504	-	-	-	-	375	-	1,646
9	-	31	-	-	1,405	-	-	-	149	379	-	2,254
11	123	-	-	817	1,433	-	-	-	20	410	-	3,398
730	113	-	-	-	4,255	-	-	-	1,553	5,866	-	15,965
137	1,240	-	-	-	462	-	-	-	-	338	-	30,119
-	-	-	-	-	-	-	-	-	-	-	-	2,587
-	1,236	-	-	-	53	-	-	-	-	-	-	25,048
-	1	-	-	-	-	-	-	-	-	195	-	1,073
137	-	-	-	-	-	-	-	-	-	-	-	822
-	-	-	-	-	377	-	-	-	-	0	-	377
-	2	-	-	-	31	-	-	-	-	143	-	210
3	383	-	-	-	4,246	-	-	262	1,386	10,771	-	19,673
-	268	-	-	-	3,185	-	-	253	1,373	5,329	-	10,434
3	73	-	-	-	1,059	-	-	9	13	5,253	-	6,987
-	42	-	-	-	3	-	-	-	-	189	-	2,251
-	-	-	-	-	-	-	-	-	-	-	-	-
-	295	-	354	3,141	702	-	-	-	-	-	-	4,497
-	-	-	-	-	42,253	1,165	-	702	4,141	-	-	308,343
1,644	621	-	-	1,302	4,852	-	-	-	-	-	-	42,998
-105	-1,717	-	-	-202	-20,893	-	-	-	-	-	-	-228,397
-637	-	-	-	-	-	-	-	-	-	-	-	-706
-	-	-	-	-	-	-	-	-	-	-	-	-3,406
70	-21	-	-	223	-	-	-	-	-	-	-	3,679
973	-1,117	-	-	1,323	26,213	1,165	-	702	4,141	-	-	122,512
-	2,029	-	382	2,393	-	-	-	-	-	-	-	4,003
735	708	814	-	-1,354	-9,631	-1,165	-	-460	-996	21,685	-	-39,393
-	-	-	-	-9	-7,163	-1,165	-	-436	-304	20,285	-	-32,738
-140	-	-	-	-23	-2,131	-	-	-24	-430	1,401	-	-1,832
-	-9	-	-	-	-262	-	-	-	-	-	-	-271
875	721	814	-	1,099	-	-	-	-	-	-	-	-355
-	-	-	-	-	-75	-	-	-	-	-	-	-1,755
-	-5	-	-	-2,421	-	-	-	-	-263	-	-	-2,442
-60	-18	-762	-28	-584	-11,162	-	-	-	-	-3,703	-	-18,637
-732	569	-0	-0	2,014	7,419	-	-	-	0	-	-	7,997
916	2,170	53	354	3,792	12,838	-	-	242	3,144	17,983	-	76,482
758	232	53	22	95	7,508	-	-	-	1,751	6,877	-	22,502
-	1	-	-	-	498	-	-	-	-	337	-	1,566
9	-	53	22	-	1,466	-	-	-	141	433	-	2,421
11	131	-	-	95	1,327	-	-	-	21	402	-	2,622
738	100	-	-	-	4,217	-	-	-	1,588	5,705	-	15,893
155	1,277	-	-	3	444	-	-	-	-	339	-	29,446
-	-	-	-	-	-	-	-	-	-	-	-	2,217
-	1,274	-	-	-	49	-	-	-	-	-	-	24,751
-	1	-	-	3	-	-	-	-	-	203	-	1,050
155	-	-	-	-	-	-	-	-	-	-	-	863
-	-	-	-	-	362	-	-	-	-	0	-	363
-	2	-	-	-	33	-	-	-	-	136	-	203
3	368	-	-	144	4,152	-	-	242	1,394	10,766	-	19,620
-	253	-	-	-	3,101	-	-	233	1,370	5,282	-	10,268
3	73	-	-	-	1,048	-	-	9	23	5,281	-	7,015
-	42	-	-	-	3	-	-	-	-	203	-	2,193
-	-	-	-	144	-	-	-	-	-	-	-	144
-	293	-	332	3,550	734	-	-	-	-	-	-	4,913

Major Energy Indicators of Australia

ktoe

	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	86,170	107,912	113,521	118,643	122,532	122,095	122,512	122,858
Indigenous Production	157,350	232,976	264,546	281,980	282,400	290,461	308,343	296,246
Import	14,275	26,328	31,095	36,742	40,590	41,029	42,998	46,387
Export	-78,660	-153,082	-179,210	-191,718	-196,386	-203,432	-228,397	-225,589
Final Energy Consumption	56,459	69,566	72,194	75,016	76,172	74,959	76,482	77,551
Industry	19,121	23,777	22,220	22,757	23,124	21,949	22,646	23,263
Transport	21,111	25,658	27,155	28,714	29,357	29,107	29,446	30,119
Residential	7,490	9,061	9,286	9,766	9,819	10,072	10,268	10,434
Commerce & Public Services	3,481	5,041	6,236	6,651	6,736	6,961	7,015	6,987
Others	5,256	6,029	7,296	7,127	7,136	6,869	7,106	6,748
Coal, Coal Products								
Primary Energy Supply	34,980	48,156	51,046	51,954	51,547	52,687	50,038	48,147
Indigenous Production	105,863	164,142	200,929	214,468	215,783	223,239	236,169	222,087
Import	-	-	-	-	-	-	-	-
Export	-67,008	-120,989	-150,341	-158,349	-163,837	-168,955	-189,910	-183,584
Transformation Sector	-30,398	-43,637	-45,694	-47,105	-46,468	-48,368	-45,497	-43,614
Power Generation	-28,773	-42,200	-44,164	-45,548	-44,907	-46,966	-43,818	-41,840
Final Energy Consumption	4,204	4,115	3,495	3,386	3,539	3,118	3,108	2,985
Industry	3,993	3,979	3,241	3,170	3,316	2,907	2,906	2,836
Transport	72	88	181	168	181	176	171	121
Residential	12	2	3	3	2	1	1	1
Commerce & Public Services	126	45	69	45	39	34	30	27
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	32,951	36,523	33,973	32,988	32,086	30,504	30,641	33,154
Indigenous Production	29,026	33,910	25,673	25,912	23,855	24,500	23,906	23,092
Import	10,087	22,260	21,377	20,766	21,480	19,876	22,319	25,955
Export	-5,856	-19,365	-13,190	-13,403	-13,428	-13,914	-15,152	-16,469
Transformation Sector	-30,676	-37,538	-34,075	-33,440	-32,563	-32,820	-31,973	-33,689
Petroleum Refineries	-30,676	-37,538	-34,093	-33,533	-32,703	-33,022	-32,219	-33,983
Petroleum Products								
Primary Energy Supply	-1,873	-2,425	2,940	3,875	7,423	8,652	9,612	8,227
Import	4,188	4,068	9,719	10,985	14,395	15,596	15,827	14,821
Export	-3,447	-3,463	-3,296	-3,207	-3,125	-2,544	-2,442	-2,198
Transformation Sector	31,064	37,687	30,469	28,606	28,890	29,591	28,644	29,863
Power Generation	-946	-525	-824	-847	-1,200	-900	-785	-787
Petroleum Refineries	32,061	38,258	34,411	32,535	33,088	33,117	31,864	33,447
Final Energy Consumption	28,995	34,714	36,793	37,978	38,906	38,319	39,153	40,033
Industry	2,885	3,548	3,301	3,045	3,435	3,236	3,590	4,063
Transport	20,874	25,064	26,313	27,815	28,419	28,126	28,491	29,197
Residential	378	350	293	318	286	284	279	293
Commerce & Public Services	256	313	493	585	603	622	624	625
Others	4,602	5,440	6,393	6,216	6,162	6,051	6,167	5,854
Natural Gas								
Primary Energy Supply	14,790	19,095	18,972	22,847	24,315	24,556	26,213	27,028
Indigenous Production	17,140	28,360	31,355	34,616	35,596	37,019	42,253	44,754
Import	-	-	-	4,991	4,715	5,557	4,852	5,611
Export	-2,350	-9,265	-12,383	-16,760	-15,995	-18,020	-20,893	-23,338
Transformation Sector	-4,092	-4,428	-5,800	-7,563	-8,324	-9,535	-9,631	-11,125
Power Generation	-3,471	-4,061	-5,407	-7,216	-7,973	-9,203	-9,293	-10,797
Final Energy Consumption	8,810	11,459	12,452	12,942	12,946	12,434	12,838	13,007
Industry	5,666	7,165	7,648	8,009	7,881	7,321	7,508	7,597
Transport	10	304	364	400	409	440	444	462
Residential	1,934	2,564	2,777	2,908	2,952	3,040	3,101	3,185
Commerce & Public Services	750	1,083	965	934	947	1,015	1,048	1,059
Others	450	342	697	691	757	619	736	705
Electricity								
Power Generation	13,332	18,079	19,664	20,911	20,917	21,393	21,685	21,899
Thermal	11,343	15,938	16,257	17,390	17,267	19,227	19,327	19,280
Hydro	1,280	1,438	1,343	1,248	1,037	1,021	1,165	1,445
Nuclear	-	-	-	-	-	-	-	-
Others	709	703	2,064	2,273	2,613	1,145	1,193	1,174
Final Energy Consumption	11,112	14,856	16,274	17,334	17,403	17,758	17,983	18,140
Industry	5,090	6,624	6,369	6,787	6,725	6,769	6,877	7,031
Transport	155	201	297	331	347	366	339	338
Residential	3,315	4,194	4,717	4,935	4,996	5,165	5,282	5,329
Commerce & Public Services	2,348	3,590	4,685	5,060	5,118	5,260	5,281	5,253
Others	204	248	206	220	217	199	203	189

Major Economic Indicators of Australia

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	17.07	19.15	20.39	21.02	21.38	21.78	22.07	22.32
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	276.60	383.83	450.53	481.83	499.99	508.23	518.84	531.46
Real Term (Billions of 2000 Price and 2000 PPP)	362.62	503.20	590.64	631.67	655.48	666.28	680.19	696.74
Nominal (Billions of Current USD)	315.90	383.83	703.31	906.47	985.86	978.24	1,185.44	1,448.11
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	16,209	20,040	22,091	22,927	23,381	23,336	23,514	23,807
Real Term (2000 Price and 2000 PPP)	21,249	26,272	28,961	30,057	30,652	30,593	30,826	31,210
Nominal (Current USD)	18,511	20,040	34,485	43,133	46,102	44,917	53,724	64,868
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	404.68	662.04	920.97	1,083.30	1,175.32	1,254.29	1,292.32	1,403.89
Household Final Consumption Expenditure, etc.	223.02	386.46	531.23	606.65	657.81	678.56	711.24	753.15
General Government Final Consumption Expenditure	69.22	116.80	160.67	186.69	201.49	220.71	233.48	251.24
Gross Fixed Capital Formation	111.21	170.28	247.66	299.10	336.36	353.12	357.40	372.44
Stock Change	5.04	1.63	4.75	2.78	4.01	-4.24	-4.05	5.77
Exports of Goods and Services	61.17	128.41	166.81	216.80	233.81	283.90	253.14	297.32
Imports of Goods and Services	69.20	141.54	190.15	228.70	258.17	277.76	258.90	276.01
Real GDP & its Components (Billions of 2000 AUD) *1								
Gross Domestic Product	730.66	1,013.91	1,190.11	1,272.78	1,320.75	1,342.51	1,370.54	1,403.89
Household Final Consumption Expenditure, etc.	377.15	521.01	632.39	679.42	711.42	712.06	726.98	753.15
General Government Final Consumption Expenditure	133.20	179.82	208.70	221.81	228.87	239.31	243.69	251.24
Gross Fixed Capital Formation	139.22	207.60	273.76	314.45	344.68	351.93	358.79	372.44
Stock Change	7.43	1.19	6.72	3.58	6.10	-5.46	-2.47	5.77
Exports of Goods and Services	104.19	222.36	250.64	267.56	277.54	281.60	296.56	297.32
Imports of Goods and Services	66.38	127.37	182.96	214.70	245.97	238.04	251.61	276.01
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	2.4	2.5	2.3	1.9	2.0	2.3	2.2	2.3
Industry	30.4	28.1	26.9	27.1	27.1	26.9	27.2	26.8
Services, etc.	60.1	61.9	63.4	63.8	63.9	64.0	64.0	64.3
Industrial Production Index (2005=100) *2	76.5	95.6	100.0	101.0	103.1	101.3	104.3	101.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	39.752	63.870	106.097	141.358	187.257	154.331	212.634	270.387
Imports, c.i.f.	41.985	71.529	125.281	165.336	200.273	165.471	201.639	243.701
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.358	-4.862	-13.389	-18.131	-4.786	-4.439	17.479	29.313
Current Account	-15.948	-14.763	-41.728	-59.090	-47.859	-44.783	-36.741	-33.752
Overall Balance	1.740	-1.365	7.254	-35.147	3.691	8.549	0.430	4.546
Foreign Exchange Rate (AUD/USD) *1	1.2811	1.7248	1.3095	1.1951	1.1922	1.2822	1.0902	0.9695
PPP conversion factor, GDP (AUD/International Dollar) *1	1.3740	1.3157	1.3884	1.4234	1.4791	1.4369	1.4982	1.4931
Price Indices								
GDP Deflator (2009=100) *3	55.4	65.3	77.4	85.1	89.0	93.4	94.3	100.0
Manufacturing Output Price Index (2005=100) *2	76.6	87.5	100.0	110.5	119.6	113.1	115.3	119.2
Consumer Price Index (2005=100) *2	69.2	86.1	100.0	106.0	110.6	112.6	115.8	119.7
Growth Rate (%) *3								
Real GDP	3.59	3.85	3.19	3.79	3.77	1.65	2.09	2.43
Population	1.49	1.20	1.33	1.54	1.75	1.84	1.32	1.17
Price								
Manufacturing Output Price Index	6.0	7.1	6.0	2.3	8.3	-5.4	1.9	3.4
Consumer Price Index	7.3	4.5	2.7	2.3	4.4	1.8	2.8	3.4

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					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2011									
Indigenous Production	-	-	8,859	17	-	-	-	-	-
Import	-	-	11	265	79	-	18	-	150
Export	-	-	-8,078	-121	-	-	-11	-	-14
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-114	-	-	-114	-	-
Stock Changes	-	-	-68	3	4	-	-1	-	1
Total Primary Energy Supply	-	-	723	50	83	-	-109	-	137
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-708	589	179	-	112	-	159
Main Activity Producer	-	-	-	-10	-	-	-	-	-10
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-708	599	179	-	112	-	170
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-16	-	-	-	-	-
Discrepancy	-	-	-15	2	-1	-	-3	3	1
Total Final Energy Consumption	-	-	-	624	262	-	-	3	297
Industry Sector	-	-	-	160	-	-	-	3	128
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	160	-	-	-	3	128
Transport Sector	-	-	-	431	262	-	-	-	169
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	431	262	-	-	-	169
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	17	-	-	-	-	-
Residential	-	-	-	17	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	17	-	-	-	-	-
2010									
Indigenous Production	-	-	9,219	-	-	-	-	-	-
Import	-	-	14	142	38	-	3	-	86
Export	-	-	-8,718	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-111	-	-	-111	-	-
Stock Changes	-	-	183	3	-0	-	-1	-	3
Total Primary Energy Supply	-	-	698	34	38	-	-109	-	89
Transfers	-	-	-16	16	-	-	-	-	-
Total Transformation Sector	-	-	-733	636	210	-	116	-	165
Main Activity Producer	-	-	-	-10	-	-	-	-	-10
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-733	645	210	-	116	-	175
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-17	-	-	-	-	-
Discrepancy	-	-	51	-4	3	-	-6	4	-5
Total Final Energy Consumption	-	-	-	664	251	-	-	4	249
Industry Sector	-	-	-	150	-	-	-	4	105
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	39	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	111	-	-	-	4	105
Transport Sector	-	-	-	395	251	-	-	-	144
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	395	251	-	-	-	144
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	104	-	-	-	-	-
Residential	-	-	-	16	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	88	-	-	-	-	-
Non-energy	-	-	-	15	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	17	-	-	-	11,890	-	-	0	-	-	-	20,766
-	-	-	-	18	-	-	-	-	-	-	-	276
-96	-	-	-	-	-9,291	-	-	-	-	-	-	-17,491
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	-1	22	-	-	-	-	-	-	-114
-	-	-	-	-	-	-	-	-	-	-	-	-43
-96	17	-	-	18	2,621	-	-	0	-	-	-	3,394
-	-	-	-	-	-	-	-	-	-	-	-	-
96	-	43	-	-	-1,241	-	-	-0	-	320	-	-1,040
-	-	-	-	-	-1,101	-	-	-0	-	292	-	-819
-	-	-	-	-	-154	-	-	-	-	28	-	-126
-	-	-	-	-	13	-	-	-	-	-	-	13
96	-	43	-	-	-	-	-	-	-	-	-	-108
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-16	-	-	-1,328	-	-	-	-	-57	-	-1,401
-	-0	-1	-	2	-25	-	-	-	-	0	-	-38
-	17	26	-	19	27	-	-	-	-	264	-	915
-	-	26	-	2	-	-	-	-	-	19	-	179
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	26	-	2	-	-	-	-	-	19	-	179
-	-	-	-	-	-	-	-	-	-	-	-	431
-	-	-	-	-	-	-	-	-	-	-	-	431
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	17	-	-	-	27	-	-	-	-	244	-	288
-	17	-	-	-	27	-	-	-	-	103	-	147
-	-	-	-	-	-	-	-	-	-	141	-	141
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	17	-	-	-	-	-	-	-	17
-	-	-	-	-	11,410	-	-	-	-	-	-	20,630
-	-	-	-	15	-	-	-	-	-	-	-	155
-	-	-	-	-	-8,436	-	-	-	-	-	-	-17,154
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-111
-	-0	-	-	1	-	-	-	-	-	-	-	186
-	-0	-	-	16	2,975	-	-	-	-	-	-	3,706
-	16	-	-	-	-	-	-	-	-	-	-	0
88	-	56	-	-	-1,733	-	-	-	-	326	-	-1,504
-	-	-	-	-	-1,153	-	-	-	-	296	-	-867
-	-	-	-	-	-150	-	-	-	-	30	-	-120
-	-	-	-	-	-430	-	-	-	-	-	-	-430
88	-	56	-	-	-	-	-	-	-	-	-	-87
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-17	-	-	-446	-	-	-	-	-68	-	-531
-	0	-0	-	1	-765	-	-	-	-	28	-	-690
88	16	39	-	17	31	-	-	-	-	286	-	981
-	-	39	-	2	4	-	-	-	-	51	-	205
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	39	-	-	4	-	-	-	-	-	-	43
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	2	-	-	-	-	-	51	-	162
-	-	-	-	-	-	-	-	-	-	-	-	395
-	-	-	-	-	-	-	-	-	-	-	-	395
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
88	16	-	-	-	27	-	-	-	-	235	-	366
-	16	-	-	-	27	-	-	-	-	102	-	144
-	-	-	-	-	-	-	-	-	-	134	-	134
-	-	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-	-	-	-	-	88
-	-	-	-	15	-	-	-	-	-	-	-	15

Major Energy Indicators of Brunei Darussalam

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	2,148	2,090	3,722	3,762	3,726	2,679	3,706	3,394
Indigenous Production	15,899	17,258	21,589	21,138	20,999	19,905	20,630	20,766
Import	67	24	54	56	65	109	155	276
Export	-13,780	-15,245	-17,866	-17,407	-17,154	-17,104	-17,154	-17,491
Final Energy Consumption	422	745	871	925	940	955	981	915
Industry	82	170	164	175	188	209	205	179
Transport	177	258	317	359	362	352	395	431
Residential	45	38	138	76	214	150	144	147
Commerce & Public Services	-	-	119	191	57	62	134	141
Others	118	279	133	125	120	181	104	17
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	762	825	788	698	723
Indigenous Production	7,752	9,092	10,430	9,727	9,690	9,284	9,219	8,859
Import	-	10	14	18	17	17	14	11
Export	-7,424	-8,616	-9,739	-9,024	-8,770	-8,369	-8,718	-8,078
Transformation Sector	-256	-645	-703	-740	-806	-769	-733	-708
Petroleum Refineries	-256	-645	-703	-740	-806	-769	-733	-708
Petroleum Products								
Primary Energy Supply	35	-34	-14	-22	-21	22	34	50
Import	67	15	41	38	48	93	142	265
Export	-3	-1	-	-	-	-	-	-121
Transformation Sector	345	568	621	667	661	628	636	589
Power Generation	-3	-5	-7	-8	-8	-9	-10	-10
Petroleum Refineries	347	573	628	674	669	637	645	599
Final Energy Consumption	308	510	582	629	642	646	664	624
Industry	46	119	115	127	141	161	150	160
Transport	177	258	317	359	362	352	395	431
Residential	12	15	17	18	19	18	16	17
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	72	118	133	125	120	115	104	17
Natural Gas								
Primary Energy Supply	1,785	1,524	3,016	3,022	2,922	1,868	2,975	2,621
Indigenous Production	8,138	8,152	11,143	11,394	11,291	10,604	11,410	11,890
Import	-	-	-	-	-	-	-	-
Export	-6,352	-6,628	-8,127	-8,383	-8,384	-8,735	-8,436	-9,291
Transformation Sector	-1,879	-1,780	-2,534	-2,570	-2,550	-1,464	-1,733	-1,241
Power Generation	-1,199	-1,447	-1,991	-1,968	-1,966	-1,985	-1,303	-1,255
Final Energy Consumption	32	22	25	29	28	30	31	27
Industry	-	-	-	-	-	-	4	-
Transport	-	-	-	-	-	-	-	-
Residential	32	22	25	29	28	26	27	27
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	3	-	-
Electricity								
Power Generation	101	244	281	292	294	311	326	320
Thermal	101	244	281	292	294	311	326	320
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	0
Final Energy Consumption	82	213	264	268	270	279	286	264
Industry	36	51	49	48	47	48	51	19
Transport	-	-	-	-	-	-	-	-
Residential	-	-	96	29	166	105	102	103
Commerce & Public Services	-	-	119	191	57	62	134	141
Others	46	161	-	-	-	63	-	-

Major Economic Indicators of Brunei Darussalam

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	0.26	0.33	0.37	0.38	0.39	0.39	0.40	0.41
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	4.81	6.00	6.65	6.95	6.82	6.70	6.87	7.02
Real Term (Billions of 2000 Price and 2000 PPP)	11.27	14.06	15.58	16.29	15.98	15.70	16.10	16.46
Nominal (Billions of Current USD)	3.52	6.00	9.53	12.25	14.39	10.73	12.37	16.36
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	18,719	18,087	18,079	18,228	17,571	16,982	17,155	17,277
Real Term (2000 Price and 2000 PPP)	43,870	42,389	42,370	42,719	41,181	39,799	40,205	40,492
Nominal (Current USD)	13,702	18,087	25,914	32,109	37,095	27,213	30,882	40,244
Nominal GDP & its Components (Billions of Current BND) *1								
Gross Domestic Product	6.38	10.35	15.86	18.46	20.40	15.61	16.87	20.58
Household Final Consumption Expenditure, etc.	1.69	2.57	3.56	3.72	3.61	3.80	3.91	4.09
General Government Final Consumption Expenditure	1.41	2.67	2.92	4.18	3.50	3.64	3.78	3.57
Gross Fixed Capital Formation	1.19	1.34	1.80	2.40	2.79	2.74	2.68	2.75
Stock Change	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Exports of Goods and Services	3.94	6.97	11.13	12.52	15.97	11.36	13.74	16.73
Imports of Goods and Services	2.38	3.71	4.33	5.15	5.63	5.59	5.54	5.99
Real GDP & its Components (Billions of 2000 BND) *1								
Gross Domestic Product	8.29	10.35	11.46	11.99	11.75	11.55	11.85	12.11
Household Final Consumption Expenditure, etc.	2.02	2.57	3.49	3.69	3.75	3.94	4.01	4.16
General Government Final Consumption Expenditure	2.11	2.67	2.87	3.75	3.72	3.91	4.06	3.91
Gross Fixed Capital Formation	1.55	1.34	1.72	2.20	2.50	2.49	2.40	2.45
Stock Change	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Exports of Goods and Services	4.92	6.97	7.49	7.01	6.58	6.23	5.74	6.70
Imports of Goods and Services	2.98	3.71	4.25	5.01	5.56	5.52	5.50	6.13
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.8	1.0	1.3	1.1	1.1	1.2	1.1	1.1
Industry	63.3	63.7	61.2	56.8	54.8	53.0	52.5	51.9
Services, etc.	35.9	35.3	37.5	42.1	44.1	45.8	46.3	47.0
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	7.668	10.319	7.200	8.907	12.440
Imports, c.i.f.	1.001	1.107	1.491	2.101	2.572	2.449	2.459	2.943
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	4.829	5.700	7.840	4.889	N.A.	N.A.
Current Account	N.A.	N.A.	4.033	4.828	6.939	3.977	N.A.	N.A.
Overall Balance	N.A.	N.A.	-0.063	0.142	0.045	0.154	N.A.	N.A.
Foreign Exchange Rate (BND/USD) *1	1.8125	1.7240	1.6644	1.5071	1.4172	1.4546	1.3635	1.2579
Purchasing Power Parity (BND/International Dollar) *1	0.6954	0.7356	0.9031	0.9461	1.0431	0.8056	0.8372	0.9785
Price Indices								
GDP Deflator (2000=100) *4	77.0	100.0	138.4	154.0	173.5	135.2	142.4	170.0
Wholesale Price Index (2000=100) *2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2005=100) *2	81.7	99.4	100.0	101.1	103.2	104.3	104.7	106.8
Growth Rate (%) *4								
Real GDP	1.09	2.85	0.39	0.15	-1.94	-1.77	2.60	2.21
Population	2.88	2.25	1.95	1.80	1.72	1.65	1.56	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	2.1	1.6	1.2	1.0	2.1	1.0	0.4	2.0

Source *1 : "World Development Indicators", World Bank

*2 : "International Financial Statistics", International Monetary Fund

*3 : "Brunei Darussalam Statistical Yearbook", Statistical Division, Department of Economic Planning and Development, Ministry of Finance

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

Note : N.A. means "not available"

: BND means Brunei Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

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	
2011									
Indigenous Production	33,658	-	174,119	-	-	-	-	-	-
Import	5,690	264	34,510	12,790	4,161	64	1,837	180	1,708
Export	-19,844	-231	-118,761	-19,054	-5,972	-465	-263	-6	-6,444
International Marine Bunkers	-	-	-	-524	-	-	-	-	-26
International Aviation Bunkers	-	-	-	-1,214	-	-	-1,214	-	-
Stock Changes	97	-30	1,064	-206	19	-43	-19	33	-193
Total Primary Energy Supply	19,600	3	90,932	-8,208	-1,791	-444	340	207	-4,955
Transfers	-	-	-3,717	7,904	1,254	304	-165	-206	323
Total Transformation Sector	-20,471	1,301	-91,737	96,173	32,831	3,618	3,479	496	30,760
Main Activity Producer	-17,628	-	-	-1,362	-	-	-	-	-248
Autoproducers	-1	-	-	-498	-	-	-	-	-63
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-94,159	98,033	32,831	3,618	3,479	496	31,071
Coal Transformation	-2,843	1,301	-	-	-	-	-	-	-
Other Transformation	-	-	2,422	-	-	-	-	-	-
Loss & Own Use	-4	-	-	-7,955	-5	-43	-	-	-23
Discrepancy	2,572	-243	4,522	4,668	2,541	51	-478	-229	2,242
Total Final Energy Consumption	1,697	1,061	-	92,581	34,830	3,486	3,176	268	28,346
Industry Sector	1,663	1,061	-	6,067	-	-	-	50	3,722
Iron and Steel	-	924	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	510	-	-	391	-	-	-	-	-
Other Industries	1,153	137	-	5,676	-	-	-	50	3,722
Transport Sector	-	-	-	56,976	34,830	-	3,176	-	17,840
Domestic Air Transport	-	-	-	3,225	49	-	3,176	-	-
Road	-	-	-	50,049	34,780	-	-	-	14,999
Rail	-	-	-	1,974	-	-	-	-	1,974
Inland Waterways	-	-	-	1,728	-	-	-	-	867
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	33	-	-	8,935	-	-	-	218	6,784
Residential	33	-	-	2,647	-	-	-	107	2,135
Commerce and Public Services	-	-	-	3,008	-	-	-	111	1,843
Agriculture	-	-	-	3,280	-	-	-	-	2,806
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	20,603	-	3,486	-	-	-
2010									
Indigenous Production	33,800	-	163,916	-	-	-	-	-	-
Import	7,078	492	39,320	10,940	3,692	103	1,548	48	633
Export	-19,664	-54	-105,556	-20,463	-6,834	-734	-412	-17	-7,089
International Marine Bunkers	-	-	-	-681	-	-	-	-	-47
International Aviation Bunkers	-	-	-	-1,139	-	-	-1,139	-	-
Stock Changes	622	43	-1,530	1,548	-459	-15	142	16	-123
Total Primary Energy Supply	21,836	481	96,150	-9,796	-3,602	-646	138	47	-6,626
Transfers	-	-	-3,019	7,080	1,473	127	-379	-371	523
Total Transformation Sector	-21,677	1,079	-96,829	100,817	34,457	4,315	4,126	635	31,421
Main Activity Producer	-18,948	-	-	-1,586	-	-	-	-	-267
Autoproducers	-2	-	-	-548	-	-	-	-	-63
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-98,632	102,951	34,457	4,315	4,126	635	31,751
Coal Transformation	-2,726	1,079	-	-	-	-	-	-	-
Other Transformation	-	-	1,803	-	-	-	-	-	-
Loss & Own Use	-27	-	-	-9,108	-3	-46	-5	-	-17
Discrepancy	1,570	-402	3,697	2,718	2,159	-0	-559	-42	2,368
Total Final Energy Consumption	1,703	1,158	-	91,711	34,485	3,750	3,321	269	27,669
Industry Sector	1,670	1,158	-	6,755	-	-	-	64	4,014
Iron and Steel	-	1,016	-	2	-	-	-	-	2
Chemical & Petrochemical	-	-	-	3	-	-	-	-	3
Non-metallic Minerals	512	-	-	403	-	-	-	-	1
Other Industries	1,159	142	-	6,347	-	-	-	64	4,008
Transport Sector	-	-	-	56,713	34,485	-	3,321	-	17,436
Domestic Air Transport	-	-	-	3,382	61	-	3,321	-	-
Road	-	-	-	49,412	34,424	-	-	-	14,737
Rail	-	-	-	1,911	-	-	-	-	1,911
Inland Waterways	-	-	-	2,000	-	-	-	-	779
Pipeline Transport	-	-	-	8	-	-	-	-	8
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	32	-	-	8,082	-	-	-	205	6,219
Residential	32	-	-	2,698	-	-	-	115	2,212
Commerce and Public Services	-	-	-	2,529	-	-	-	89	1,532
Agriculture	-	-	-	2,855	-	-	-	1	2,475
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	20,162	-	3,750	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	132,386	32,319	24,389	898	12,071	-	-	409,840
367	428	-	-	4,045	25,968	-	-	-	704	1,287	-	81,213
-2,816	-473	-	-	-2,614	-76,853	-	-	-	-570	-4,430	-	-239,744
-497	-	-	-	-	-	-	-	-	-	-	-	-524
-	-	-	-	-	-	-	-	-	-	-	-	-1,214
61	-34	-	-	-31	2,092	-	-	-	-	-	-	3,017
-2,885	-79	-	-	1,400	83,593	32,319	24,389	898	12,205	-3,144	-	252,587
63	2,920	-	5,492	-2,082	-	-	-	-	-	-	-	4,187
5,843	1,951	5,104	-	12,091	-16,085	-32,319	-24,389	-898	-4,074	54,954	578	-36,969
-438	-	-	-	-676	-9,975	-29,694	-24,389	-898	-8	50,061	527	-33,366
-85	-	-312	-	-37	-3,321	-2,624	-	-0	-2,519	4,893	50	-4,020
-	-	-	-	-	-1,940	-	-	-	-	-	-	-1,940
6,366	1,951	5,417	-	12,804	-	-	-	-	-	-	-	3,874
-	-	-	-	-	-	-	-	-	-	-	-	-1,542
-	-	-	-	-	-849	-	-	-	-1,547	-	-	26
-249	-66	-5,139	-	-2,431	-13,990	-	-	-	-1	-7,185	-	-29,136
-632	660	34	473	6	2,410	-	-	-	-	-0	-32	13,897
2,140	5,386	-	5,966	8,985	55,928	-	-	-	8,130	44,625	546	204,567
723	1,167	-	-	404	23,883	-	-	-	5,840	17,698	545	56,757
-	-	-	-	-	1,624	-	-	-	3	765	-	3,315
-	-	-	-	-	3,723	-	-	-	-	1,682	126	5,530
-	-	-	-	391	43	-	-	-	117	163	-	1,224
723	1,167	-	-	14	18,493	-	-	-	5,721	15,088	420	46,688
861	270	-	-	-	2,437	-	-	-	-	331	-	59,745
-	-	-	-	-	-	-	-	-	-	-	-	3,225
-	270	-	-	-	35	-	-	-	-	-	-	50,084
-	-	-	-	-	-	-	-	-	-	-	-	1,974
861	-	-	-	-	-	-	-	-	-	-	-	1,728
-	-	-	-	-	2,402	-	-	-	-	269	-	2,671
-	-	-	-	-	-	-	-	-	-	63	-	63
556	1,378	-	-	-	26,215	-	-	-	2,289	26,596	0	64,069
36	369	-	-	-	14,665	-	-	-	2,279	13,161	-	32,786
233	821	-	-	-	10,826	-	-	-	10	12,623	0	26,467
286	188	-	-	-	724	-	-	-	0	812	-	4,816
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2,571	-	5,966	8,581	3,393	-	-	-	-	-	-	23,996
-	-	-	-	-	132,426	30,226	23,625	760	12,031	-	-	396,784
873	216	-	-	3,827	18,771	-	-	-	488	1,607	-	78,696
-2,716	-434	-	-	-2,227	-79,151	-	-	-	-551	-3,817	-	-229,257
-635	-	-	-	-	-	-	-	-	-	-	-	-681
-	-	-	-	-	-	-	-	-	-	-	-	-1,139
-99	-27	-	-	2,114	6,655	-	-	-	-	-	-	7,338
-2,577	-245	-	-	3,714	78,701	30,226	23,625	760	11,968	-2,210	-	251,741
310	2,214	-	5,221	-2,038	-	-	-	-	-	-	-	4,062
5,735	2,084	5,719	-	12,323	-14,067	-30,226	-23,625	-760	-3,291	51,772	516	-36,291
-612	-	-	-	-708	-8,294	-27,886	-23,625	-760	-8	47,494	466	-33,149
-105	-	-312	-	-68	-3,040	-2,340	-	-0	-2,132	4,279	50	-3,733
-	-	-	-	-	-1,933	-	-	-	-	-	-	-1,933
6,452	2,084	6,031	-	13,099	-	-	-	-	-	-	-	4,319
-	-	-	-	-	-	-	-	-	-	-	-	-1,647
-	-	-	-	-	-800	-	-	-	-1,151	-	-	-148
-372	-104	-5,719	-	-2,841	-14,005	-	-	-	-1	-6,050	-	-29,190
-219	686	0	584	-2,258	1,549	-	-	-	0	0	-29	9,104
2,878	4,635	-	5,805	8,900	52,178	-	-	-	8,676	43,512	487	199,425
1,238	1,033	-	-	407	22,652	-	-	-	6,437	17,435	487	56,595
-	-	-	-	-	1,552	-	-	-	3	754	-	3,327
-	-	-	-	-	3,662	-	-	-	-	1,583	238	5,486
9	-	-	-	393	41	-	-	-	113	160	-	1,228
1,229	1,033	-	-	14	17,399	-	-	-	6,321	14,938	249	46,554
1,220	251	-	-	-	2,464	-	-	-	-	324	-	59,501
-	-	-	-	-	-	-	-	-	-	-	-	3,382
-	251	-	-	-	41	-	-	-	-	-	-	49,453
-	-	-	-	-	-	-	-	-	-	-	-	1,911
1,220	-	-	-	-	-	-	-	-	-	-	-	2,000
-	-	-	-	-	2,424	-	-	-	-	264	-	2,696
-	-	-	-	-	-	-	-	-	-	60	-	60
420	1,238	-	-	-	24,077	-	-	-	2,239	25,753	0	60,184
38	332	-	-	-	13,224	-	-	-	2,229	12,625	-	30,808
171	737	-	-	-	10,285	-	-	-	10	12,320	0	25,144
210	169	-	-	-	568	-	-	-	0	808	-	4,231
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2,114	-	5,805	8,493	2,983	-	-	-	-	-	-	23,145

Major Energy Indicators of Canada

ktoe

	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	208,572	252,649	272,802	272,325	266,836	251,075	251,741	252,587
Indigenous Production	273,734	373,927	401,686	416,703	406,690	390,818	396,784	409,840
Import	46,404	72,056	82,020	79,804	85,682	78,998	78,696	81,213
Export	-105,728	-199,765	-215,945	-230,929	-230,227	-223,607	-229,257	-239,744
Final Energy Consumption	158,800	189,160	202,712	204,673	200,186	191,718	199,425	204,567
Industry	47,276	54,686	57,507	57,098	53,026	51,448	56,595	56,757
Transport	43,122	52,231	55,774	58,119	56,896	58,009	59,501	59,745
Residential	28,722	30,875	31,182	32,128	32,634	32,172	30,808	32,786
Commerce & Public Services	21,727	27,425	31,111	30,960	31,941	25,645	25,144	26,467
Others	17,953	23,942	27,139	26,368	25,689	24,443	27,377	28,812
Coal, Coal Products								
Primary Energy Supply	24,276	31,661	28,829	26,436	27,803	21,933	22,317	19,603
Indigenous Production	37,927	34,407	31,865	34,276	34,373	30,724	33,800	33,658
Import	9,547	15,048	11,778	10,496	12,335	7,285	7,570	5,954
Export	-21,442	-19,269	-16,854	-18,404	-19,333	-16,950	-19,718	-20,076
Transformation Sector	-21,399	-28,643	-25,619	-25,336	-25,157	-19,967	-20,597	-19,171
Power Generation	-19,972	-26,964	-24,005	-23,557	-23,564	-18,699	-18,951	-17,629
Final Energy Consumption	2,924	2,939	3,066	3,189	2,792	2,939	2,861	2,757
Industry	2,872	2,902	3,031	3,158	2,759	2,908	2,829	2,724
Transport	-	-	-	-	-	-	-	-
Residential	47	36	35	31	33	31	32	33
Commerce & Public Services	5	1	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	83,138	97,125	107,073	109,647	102,037	95,579	96,150	90,932
Indigenous Production	94,488	128,871	148,012	162,519	158,307	156,886	163,916	174,119
Import	27,134	46,942	46,637	43,239	42,564	40,797	39,320	34,510
Export	-37,811	-78,446	-85,864	-97,872	-99,188	-102,296	-105,556	-118,761
Transformation Sector	-85,889	-95,287	-101,590	-102,409	-98,169	-95,241	-96,829	-91,737
Petroleum Refineries	-85,889	-95,495	-101,856	-103,443	-99,258	-96,464	-98,632	-94,159
Petroleum Products								
Primary Energy Supply	-6,283	-8,855	-9,202	-10,155	-7,582	-9,598	-9,796	-8,208
Import	7,673	7,362	14,019	13,306	15,519	12,024	10,940	12,790
Export	-11,857	-14,895	-21,818	-21,687	-21,862	-20,796	-20,463	-19,054
Transformation Sector	82,854	93,386	101,859	104,228	100,433	99,292	100,817	96,173
Power Generation	-3,796	-3,148	-3,261	-2,792	-2,590	-2,396	-2,134	-1,860
Petroleum Refineries	86,651	96,534	105,120	107,020	103,023	101,688	102,951	98,033
Final Energy Consumption	68,787	81,000	93,288	92,244	90,809	86,699	91,711	92,581
Industry	6,787	6,457	8,792	6,363	5,831	6,211	6,755	6,067
Transport	39,944	47,084	51,109	53,628	53,362	54,955	56,713	56,976
Residential	4,659	3,249	2,373	2,313	2,067	2,869	2,698	2,647
Commerce & Public Services	4,077	5,778	8,586	8,203	8,282	2,533	2,529	3,008
Others	13,321	18,431	22,428	21,737	21,267	20,131	23,017	23,883
Natural Gas								
Primary Energy Supply	54,743	74,259	80,624	80,619	78,283	78,392	78,701	83,593
Indigenous Production	88,579	148,361	154,077	151,404	145,018	135,378	132,426	132,386
Import	521	1,329	7,833	10,798	12,831	17,066	18,771	25,968
Export	-33,045	-82,681	-87,402	-88,274	-84,712	-78,678	-79,151	-76,853
Transformation Sector	-2,447	-8,812	-9,249	-10,952	-11,665	-12,158	-14,067	-16,085
Power Generation	-1,868	-7,356	-7,512	-8,662	-9,380	-9,611	-11,334	-13,296
Final Energy Consumption	43,314	53,426	51,626	55,642	53,233	51,921	52,178	55,928
Industry	16,856	19,318	18,756	22,700	21,015	20,573	22,652	23,883
Transport	2,897	4,758	4,299	4,143	3,199	2,722	2,464	2,437
Residential	11,359	13,861	13,899	14,667	14,812	14,196	13,224	14,665
Commerce & Public Services	8,322	10,816	10,853	10,311	10,604	10,936	10,285	10,826
Others	3,880	4,673	3,819	3,820	3,602	3,494	3,551	4,117
Electricity								
Power Generation	41,465	52,091	53,848	54,953	55,130	52,808	51,772	54,954
Thermal	8,612	12,909	12,231	12,954	12,755	10,849	10,771	11,080
Hydro	25,529	30,841	31,281	31,622	32,199	31,713	30,226	32,319
Nuclear	6,347	6,324	7,995	8,121	8,161	7,826	7,875	8,130
Others	977	2,017	2,341	2,256	2,016	2,419	2,900	3,426
Final Energy Consumption	35,960	41,421	44,046	43,258	42,984	40,008	43,512	44,625
Industry	14,443	17,485	18,197	16,605	15,155	13,934	17,435	17,698
Transport	281	389	366	348	335	332	324	331
Residential	11,165	11,888	12,985	13,146	13,715	12,754	12,625	13,161
Commerce & Public Services	9,319	10,821	11,608	12,351	12,961	12,171	12,320	12,623
Others	751	837	890	809	818	818	808	812

Major Economic Indicators of Canada

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	27.79	30.77	32.31	32.93	33.32	33.73	34.13	34.48
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	543.64	724.91	821.94	863.73	869.68	845.59	872.78	894.84
Real Term (Billions of 2000 Price and 2000 PPP)	655.51	874.09	991.07	1,041.47	1,048.64	1,019.60	1,052.38	1,078.98
Nominal (Billions of Current USD)	582.74	724.91	1,133.76	1,424.07	1,502.68	1,337.58	1,577.04	1,778.63
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	19,562	23,559	25,437	26,231	26,103	25,072	25,575	25,950
Real Term (2000 Price and 2000 PPP)	23,587	28,407	30,672	31,629	31,474	30,231	30,838	31,289
Nominal (Current USD)	20,968	23,559	35,088	43,249	45,102	39,659	46,212	51,579
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	679.92	1,076.58	1,373.85	1,529.59	1,603.42	1,528.99	1,624.61	1,760.01
Household Final Consumption Expenditure, etc.	385.41	596.01	758.97	851.60	890.60	898.22	940.62	982.62
General Government Final Consumption Expenditure	151.42	200.08	259.86	293.61	315.98	337.74	353.57	367.58
Gross Fixed Capital Formation	144.86	206.27	292.66	347.21	366.70	326.00	358.48	387.42
Stock Change	-2.68	11.53	10.61	8.27	5.90	-6.95	2.26	N.A.
Exports of Goods and Services	175.51	490.69	519.44	534.72	563.08	439.53	478.13	535.65
Imports of Goods and Services	174.62	428.75	468.27	505.06	538.65	465.33	508.65	556.73
Real GDP & its Components (Billions of 2000 CAD) *1								
Gross Domestic Product	908.68	1,211.68	1,373.85	1,443.71	1,453.65	1,413.39	1,458.83	1,495.71
Household Final Consumption Expenditure, etc.	508.47	649.42	758.97	826.65	851.36	855.00	883.45	904.48
General Government Final Consumption Expenditure	210.82	228.74	259.86	275.04	287.13	297.47	304.75	307.16
Gross Fixed Capital Formation	168.87	221.52	292.66	324.41	331.04	288.08	317.01	337.98
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	227.39	505.90	519.44	528.89	504.05	434.56	462.39	483.59
Imports of Goods and Services	208.09	402.66	468.27	520.39	528.05	457.27	517.35	553.54
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	2.3	1.8	1.7	1.6	1.7	1.7	1.6	N.A.
Industry	32.3	32.4	30.2	28.9	27.9	25.6	26.4	N.A.
Services, etc.	65.5	65.8	68.1	69.5	70.4	72.7	72.0	N.A.
Industrial Production Index (2005=100) *2	64.0	88.3	100.0	105.1	105.6	102.8	106.3	109.1
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	127.629	276.635	360.475	420.693	456.471	316.094	387.481	452.131
Imports, c.i.f.	123.244	244.786	322.411	390.188	419.011	329.907	402.690	463.410
Balance of Payments (Billions of Current USD) *2								
Trade Balance	9.513	45.047	50.572	42.048	42.582	-5.986	-10.409	0.739
Current Account	-19.764	19.622	21.910	11.307	3.470	-40.949	-58.333	-52.993
Overall Balance	1.139	3.720	1.335	3.906	1.769	10.470	3.815	7.916
Foreign Exchange Rate (CAD/USD) *1	1.1668	1.4851	1.2118	1.0741	1.0670	1.1431	1.0302	0.9895
Purchasing Power Parity (CAD/International Dollar) *1	1.2547	1.2317	1.2136	1.2112	1.2344	1.1993	1.2183	1.2331
Price Indices								
GDP Deflator (2005=100) *3	74.8	88.9	100.0	105.9	110.3	108.2	111.4	117.7
Industry Selling Price Index (2005=100) *2	75.5	95.5	100.0	103.8	108.4	104.6	105.6	110.5
Consumer Price Index (2005=100) *2	73.2	89.2	100.0	104.2	106.7	107.0	108.9	112.0
Growth Rate (%) *3								
Real GDP	0.19	5.23	3.02	2.20	0.69	-2.77	3.21	2.53
Population	1.50	0.89	0.99	1.08	1.18	1.23	1.18	1.05
Price								
Industry Selling Price Index	0.3	4.3	1.6	1.5	4.3	-3.5	1.0	4.6
Consumer Price Index	4.8	2.7	2.2	2.1	2.4	0.3	1.8	2.9

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 2011

Currency Exchange Rate

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

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	94.88	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	78.01	Motor Gasoline	CND Cents/l	124.94
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	83.64	Gas/Diesel Oil	CND Cents/l	124.08
Fuel Oil			Fuel Oil	CND Cents/l	63.65	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	36.71
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		
Charcoal								

1) Crude Oil Import Price is based on Crude Oil Price, Cushing, OK, WTI, Spot Price, FOB, U.S. DOE

2) Fuel Oil, Wholesale Price (High Sulphur Fuel Oil For Industry)

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	
2011									
Indigenous Production	245	-	641	-	-	-	-	-	-
Import	5,432	23	9,269	7,315	652	61	328	-	4,617
Export	-	-	-	-481	-135	-	-	-	-282
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-442	-	-	-442	-	-
Stock Changes	-354	-	64	-546	-114	-	-158	-30	-53
Total Primary Energy Supply	5,323	23	9,973	5,846	402	61	-272	-30	4,282
Transfers	-	-	901	-866	-133	-125	-	-	-14
Total Transformation Sector	-5,250	248	-10,951	8,172	2,353	63	601	82	2,303
Main Activity Producer	-4,786	-	-	-1,304	-	-	-	-	-883
Autoproducers	-	-	-	-135	-	-	-	-	-90
Gas Processing	-	-	-	-89	-	-	-	-	-
Petroleum Refineries	-	-	-10,951	9,980	2,353	63	601	82	3,276
Coal Transformation	-464	248	-	-	-	-	-	-	-
Other Transformation	-	-	-	-280	-	-	-	-	-
Loss & Own Use	-	-150	-	-194	-	-125	-	-	-1
Discrepancy	139	-9	77	775	132	125	-0	77	221
Total Final Energy Consumption	212	111	-	13,734	2,754	-	329	129	6,791
Industry Sector	210	111	-	3,440	-	-	14	17	2,182
Iron and Steel	-	98	-	78	-	-	-	-	27
Chemical & Petrochemical	-	-	-	1	-	-	-	-	-
Non-metallic Minerals	1	-	-	22	-	-	-	-	9
Other Industries	209	14	-	3,339	-	-	14	17	2,146
Transport Sector	-	-	-	7,726	2,754	-	309	1	3,929
Domestic Air Transport	-	-	-	315	5	-	309	-	1
Road	-	-	-	6,549	2,745	-	-	1	3,784
Rail	-	-	-	46	-	-	-	-	46
Inland Waterways	-	-	-	816	4	-	-	-	98
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	3	-	-	2,026	-	-	6	111	679
Residential	-	-	-	1,000	-	-	-	110	3
Commerce and Public Services	-	-	-	664	-	-	6	1	459
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	3	-	-	362	-	-	-	-	217
Non-energy	-	-	-	542	-	-	-	-	-
2010									
Indigenous Production	254	-	611	-	-	-	-	-	-
Import	3,808	1	8,659	7,340	789	-	305	-	4,706
Export	-	-	-	-627	-234	-35	-	-	-342
International Marine Bunkers	-	-	-	-401	-	-	-	-	-20
International Aviation Bunkers	-	-	-	-513	-	-	-513	-	-
Stock Changes	529	-29	-3	-58	57	5	-9	13	-49
Total Primary Energy Supply	4,591	-28	9,267	5,741	611	-30	-217	13	4,295
Transfers	-	-	839	-801	-109	-37	-22	22	-62
Total Transformation Sector	-4,204	207	-9,894	7,146	2,179	77	623	61	1,760
Main Activity Producer	-3,856	-	-	-1,586	-	-	-	-	-1,228
Autoproducers	-	-	-	-138	-	-	-	-	-32
Gas Processing	-	-	-	-5	-	-	-	-	-
Petroleum Refineries	-	-	-9,894	8,874	2,179	77	623	61	3,020
Coal Transformation	-348	207	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-110	-	-385	-	-	-	-	-18
Discrepancy	-54	-12	-211	378	275	-11	-25	-3	-126
Total Final Energy Consumption	332	57	-	12,079	2,955	-	359	92	5,849
Industry Sector	328	57	-	3,020	-	-	-	41	1,925
Iron and Steel	-	44	-	10	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	52	-	-	190	-	-	-	-	11
Other Industries	275	14	-	2,820	-	-	-	41	1,913
Transport Sector	-	-	-	7,089	2,953	-	359	-	3,486
Domestic Air Transport	-	-	-	368	7	-	359	-	1
Road	-	-	-	6,258	2,946	-	-	-	3,305
Rail	-	-	-	44	-	-	-	-	44
Inland Waterways	-	-	-	419	-	-	-	-	135
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	5	-	-	1,671	2	-	-	51	439
Residential	-	-	-	932	-	-	-	50	3
Commerce and Public Services	-	-	-	464	-	-	-	1	283
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	5	-	-	275	2	-	-	-	152
Non-energy	-	-	-	300	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	1,244	1,807	-	29	5,915	-	-	9,881
574	861	-	-	222	3,327	-	-	-	-	63	-	25,428
-63	-	-	-	-	-	-	-	-	-	-	-	-481
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-442
19	-204	-	-	-6	-5	-	-	-	-	-	-	-842
530	656	-	-	217	4,566	1,807	-	29	5,915	63	-	33,545
-	-66	-	-	-528	-	-	-	-	-	-	-	35
1,071	703	-	-	997	-2,331	-1,807	-	-29	-933	5,824	-	-7,056
-83	-	-	-	-338	-2,353	-1,747	-	-29	-24	5,303	-	-4,939
-36	-	-9	-	-	-55	-59	-	-1	-596	521	-	-324
-	-89	-	-	-	77	-	-	-	-	-	-	-13
1,189	792	289	-	1,334	-	-	-	-	-	-	-	-971
-	-	-	-	-	-	-	-	-	-	-	-	-216
-	-	-280	-	-	-	-	-	-	-313	-	-	-594
-6	-62	-	-	-	-460	-	-	-	-	-841	-	-1,645
18	66	90	-	47	195	-	-	-	17	-64	-	1,131
1,613	1,297	90	-	732	1,970	-	-	-	4,999	4,982	-	26,009
711	239	86	-	191	993	-	-	-	1,668	3,305	-	9,728
47	5	-	-	-	-	-	-	-	-	50	-	227
1	-	-	-	-	129	-	-	-	-	28	-	158
12	1	-	-	-	4	-	-	-	4	45	-	76
651	234	86	-	191	860	-	-	-	1,664	3,182	-	9,267
718	15	-	-	-	17	-	-	-	-	41	-	7,784
-	-	-	-	-	-	-	-	-	-	-	-	315
5	15	-	-	-	17	-	-	-	-	-	-	6,566
-	-	-	-	-	-	-	-	-	-	41	-	87
713	-	-	-	-	-	-	-	-	-	-	-	816
-	-	-	-	-	-	-	-	-	-	-	-	-
184	1,042	3	-	-	523	-	-	-	3,331	1,636	-	7,519
-	887	-	-	-	397	-	-	-	3,330	821	-	5,548
46	148	3	-	-	126	-	-	-	1	804	-	1,595
-	-	-	-	-	-	-	-	-	-	-	-	-
138	7	-	-	-	-	-	-	-	-	10	-	375
-	1	-	-	541	437	-	-	-	-	-	-	979
-	-	-	-	-	1,554	1,868	-	29	4,904	-	-	9,218
410	906	-	-	225	3,007	-	-	-	-	82	-	22,897
-	-15	-	-	-	-	-	-	-	-	-	-	-627
-381	-	-	-	-	-	-	-	-	-	-	-	-401
-	-	-	-	-	-	-	-	-	-	-	-	-513
-9	-28	-	-	-38	-86	-	-	-	-	-	-	354
20	863	-	-	186	4,475	1,868	-	29	4,904	82	-	30,928
-132	-40	-	-	-421	-	-	-	-	-	-	-	38
1,148	441	256	-	601	-1,761	-1,868	-	-29	-677	5,197	-	-5,882
-91	-	-	-	-267	-1,718	-1,839	-	-29	-33	4,881	-	-4,179
-106	-	-	-	-	-34	-29	-	-	-334	316	-	-219
-	-5	-	-	-	-8	-	-	-	-	-	-	-13
1,345	445	256	-	868	-	-	-	-	-	-	-	-1,020
-	-	-	-	-	-	-	-	-	-	-	-	-141
-	-	-	-	-	-	-	-	-	-310	-	-	-310
-34	-78	-256	-	-	-362	-	-	-	-	-655	-	-1,512
68	156	-	-	44	18	-	-	-	15	83	-	216
1,072	1,342	-	-	410	2,370	-	-	-	4,242	4,707	-	23,788
625	250	-	-	180	1,100	-	-	-	1,091	3,083	-	8,679
10	-	-	-	-	4	-	-	-	-	40	-	97
-	-	-	-	-	118	-	-	-	-	40	-	158
-	-	-	-	179	3	-	-	-	2	47	-	295
615	250	-	-	1	975	-	-	-	1,089	2,956	-	8,129
283	7	-	-	-	18	-	-	-	-	37	-	7,143
-	-	-	-	-	-	-	-	-	-	-	-	368
-	7	-	-	-	18	-	-	-	-	-	-	6,275
-	-	-	-	-	-	-	-	-	-	37	-	82
283	-	-	-	-	-	-	-	-	-	-	-	419
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
163	1,016	-	-	-	528	-	-	-	3,151	1,587	-	6,942
-	879	-	-	-	398	-	-	-	3,151	805	-	5,286
47	132	-	-	-	128	-	-	-	-	775	-	1,367
-	-	-	-	-	-	-	-	-	-	-	-	-
116	5	-	-	-	3	-	-	-	-	7	-	289
-	70	-	-	230	724	-	-	-	-	-	-	1,024

Major Energy Indicators of Chile

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	14,229	25,219	28,354	30,569	30,313	29,493	30,928	33,545
Indigenous Production	7,928	8,587	9,338	9,372	9,729	10,202	9,218	9,881
Import	7,237	18,633	22,229	25,086	23,343	21,844	22,897	25,428
Export	-211	-889	-1,748	-1,245	-1,296	-1,122	-627	-481
Final Energy Consumption	11,087	20,373	21,768	22,844	22,538	22,464	23,788	26,009
Industry	3,409	6,648	7,230	8,318	8,440	8,166	8,679	9,728
Transport	3,046	5,665	6,159	6,580	6,835	6,893	7,143	7,784
Residential	3,112	4,851	4,882	5,070	4,987	5,090	5,286	5,548
Commerce & Public Services	478	623	928	1,039	1,133	1,156	1,367	1,595
Others	1,043	2,587	2,568	1,837	1,144	1,160	1,313	1,354
Coal, Coal Products								
Primary Energy Supply	2,496	3,071	2,704	3,219	4,403	3,522	4,562	5,345
Indigenous Production	1,451	243	269	104	263	236	254	245
Import	1,132	2,943	2,442	3,916	4,160	3,335	3,809	5,454
Export	-	-27	-27	-30	-9	-	-	-
Transformation Sector	-1,822	-2,336	-1,985	-2,734	-3,538	-3,526	-3,997	-5,002
Power Generation	-1,650	-2,081	-1,713	-2,543	-3,307	-3,320	-3,856	-4,786
Final Energy Consumption	579	595	531	417	463	210	389	324
Industry	522	583	515	407	448	200	385	321
Transport	-	-	-	-	-	-	-	-
Residential	15	-	1	-	-	-	-	-
Commerce & Public Services	3	3	3	4	4	3	-	-
Others	39	9	12	7	11	7	5	3
Crude Oil								
Primary Energy Supply	6,727	10,402	10,894	11,420	11,183	10,855	9,267	9,973
Indigenous Production	1,166	427	355	592	602	721	611	641
Import	5,561	9,975	10,539	11,127	10,396	10,221	8,659	9,269
Export	-	-	-	-	-	-	-	-
Transformation Sector	-6,279	-10,014	-11,241	-11,998	-11,746	-11,915	-9,894	-10,951
Petroleum Refineries	-6,279	-10,014	-11,241	-11,998	-11,746	-11,915	-9,894	-10,951
Petroleum Products								
Primary Energy Supply	-37	118	666	4,776	5,109	4,511	5,741	5,846
Import	544	1,941	3,788	7,564	8,032	6,944	7,340	7,315
Export	-211	-862	-1,721	-1,215	-1,287	-1,122	-627	-481
Transformation Sector	5,756	9,284	10,135	8,000	7,965	7,822	7,146	8,172
Power Generation	-476	-457	-941	-3,107	-3,080	-2,442	-1,723	-1,438
Petroleum Refineries	6,276	9,742	11,085	11,179	11,159	10,346	8,874	9,980
Final Energy Consumption	5,488	9,185	9,554	11,129	11,532	11,653	12,079	13,734
Industry	1,339	2,049	2,071	3,152	3,242	3,169	3,020	3,440
Transport	3,022	5,639	6,107	6,522	6,785	6,836	7,089	7,726
Residential	754	1,088	880	945	896	957	932	1,000
Commerce & Public Services	123	160	227	243	345	326	464	664
Others	250	250	269	267	265	366	575	904
Natural Gas								
Primary Energy Supply	1,142	5,207	6,797	3,832	2,111	2,794	4,475	4,566
Indigenous Production	1,411	1,598	1,605	1,494	1,456	1,551	1,554	1,244
Import	-	3,671	5,275	2,338	655	1,228	3,007	3,327
Export	-	-	-	-	-	-	-	-
Transformation Sector	1,421	-1,668	-2,674	-116	308	-621	-1,761	-2,331
Power Generation	-63	-1,653	-2,710	-918	-470	-757	-1,753	-2,408
Final Energy Consumption	951	3,331	3,530	2,325	1,421	1,468	2,370	1,970
Industry	3	672	777	227	63	153	1,100	993
Transport	6	8	31	23	13	20	18	17
Residential	172	266	357	401	366	379	398	397
Commerce & Public Services	28	71	89	133	127	143	128	126
Others	742	2,314	2,277	1,542	852	773	726	437
Electricity								
Power Generation	1,580	3,447	4,514	5,032	5,135	5,222	5,197	5,824
Thermal	719	1,524	1,694	2,549	2,536	2,307	2,934	3,369
Hydro	768	1,592	2,278	1,989	2,081	2,175	1,868	1,807
Nuclear	-	-	-	-	-	-	-	-
Others	93	331	543	494	518	739	396	649
Final Energy Consumption	1,332	3,161	4,155	4,561	4,602	4,647	4,707	4,982
Industry	873	2,209	2,801	3,080	3,140	3,147	3,083	3,305
Transport	18	19	22	35	37	36	37	41
Residential	372	532	712	766	752	765	805	821
Commerce & Public Services	60	388	609	659	657	684	775	804
Others	8	14	11	21	16	14	7	10

Major Economic Indicators of Chile

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	13.21	15.45	16.34	16.67	16.83	16.99	17.15	17.31
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	42.66	79.31	97.45	106.61	110.52	109.37	115.68	122.44
Real Term (Billions of 2000 Price and 2000 PPP)	80.74	150.11	184.43	201.77	209.16	207.00	218.92	231.73
Nominal (Billions of Current USD)	31.56	79.31	124.40	172.87	179.63	171.96	217.56	251.19
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	3,228	5,132	5,965	6,396	6,566	6,437	6,745	7,074
Real Term (2000 Price and 2000 PPP)	6,110	9,713	11,289	12,105	12,427	12,182	12,765	13,388
Nominal (Current USD)	2,388	5,132	7,615	10,371	10,672	10,120	12,685	14,513
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	9,622.3	42,797.0	69,637.4	90,317.6	93,847.9	96,443.8	111,007.9	121,492.7
Household Final Consumption Expenditure, etc.	5,886.6	27,808.4	41,396.9	51,064.9	57,081.9	57,713.2	64,348.3	72,367.9
General Government Final Consumption Expenditure	961.7	4,953.4	7,283.0	9,327.6	10,553.3	12,219.9	13,241.1	14,211.5
Gross Fixed Capital Formation	2,278.7	8,663.4	14,794.3	17,937.1	23,178.5	21,026.6	23,687.6	27,838.8
Stock Change	144.4	1,068.4	1,429.6	1,257.6	1,183.5	-1,464.6	2,304.0	1,794.2
Exports of Goods and Services	3,270.2	12,534.0	26,728.5	39,632.2	38,953.2	35,849.0	42,009.1	45,769.6
Imports of Goods and Services	2,939.6	12,230.5	21,995.0	28,901.9	37,102.5	28,545.0	35,218.6	41,749.4
Real GDP & its Components (Billions of 1986 CLP) *1								
Gross Domestic Product	36,225.7	67,351.0	82,752.5	90,532.3	93,847.9	92,875.3	98,227.6	103,974.6
Household Final Consumption Expenditure, etc.	19,139.6	39,461.6	48,626.1	54,797.9	57,081.9	56,633.3	63,227.5	69,148.4
General Government Final Consumption Expenditure	5,286.4	7,547.5	9,214.0	10,504.0	10,553.3	11,522.5	11,967.2	12,433.2
Gross Fixed Capital Formation	5,382.8	11,254.3	17,170.3	19,545.8	23,178.5	20,375.3	23,279.2	27,379.9
Stock Change	223.2	823.8	433.3	977.1	1,183.5	-1,733.0	2,001.5	1,365.9
Exports of Goods and Services	10,057.8	24,375.8	33,417.6	37,777.2	38,953.2	37,180.9	37,691.4	39,432.0
Imports of Goods and Services	5,851.6	16,112.1	26,108.8	33,069.6	37,102.5	31,103.7	39,630.6	45,322.7
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.4	3.3	3.3	3.3	3.3	3.2	3.1	3.2
Industry	43.1	31.1	38.9	36.6	35.2	34.9	34.0	33.2
Services, etc.	50.5	42.1	50.4	51.9	53.0	53.9	54.8	54.5
Manufacturing Production Index (2005=100) *2	56.9	80.0	100.0	107.5	107.7	100.5	103.7	112.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b	8.372	19.210	41.267	67.972	64.510	55.463	70.897	81.411
Imports, c.i.f.	7.742	18.507	32.735	47.164	62.787	42.806	59.388	74.908
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.284	2.119	10.837	24.003	8.596	15.360	15.634	10.544
Current Account	-0.485	-0.898	1.449	7.458	-3.307	3.518	3.224	-3.283
Overall Balance	2.323	0.317	1.711	-3.214	6.461	1.648	3.023	14.192
Foreign Exchange Rate (CLP/USD) *1	304.9033	539.5875	559.7675	522.4642	522.4610	560.8599	510.2492	483.6675
Purchasing Power Parity (CLP/International Dollar) *1	162.0582	285.1079	333.6900	323.5118	339.2711	350.5880	347.8523	334.2411
Price Indices								
GDP Deflator (2008=100) *3	26.6	63.5	84.2	99.8	100.0	103.8	113.0	116.8
Industry Selling Price Index (2005=100) *2	34.2	75.4	100.0	114.1	133.1	133.5	130.8	138.4
Consumer Price Index (2005=100) *2	N.A.	N.A.	N.A.	N.A.	N.A.	100.0	101.4	104.8
Growth Rate (%) *3								
Real GDP	3.70	4.50	5.56	4.60	3.66	-1.04	5.76	5.85
Population	1.79	1.24	1.05	1.00	0.97	0.95	0.94	0.92
Price								
Home & Import Goods Price Index (2000=100)	21.8	11.4	5.4	6.7	16.7	0.3	-2.0	5.9
Consumer Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1.4	3.3

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

Energy Price of Chile in 2011

Currency Exchange Rate

	Local currency / US Dollar	483.67
Currency Exchange Rate		
Local Currency Unit		CHP

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	269.22	Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	USD/ton	106.95	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/m3	651.19	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG			LPG	CHP/liter	563.00
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline			Motor Gasoline	CHP/liter	733.80
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	CHP/liter	585.74
Gas/Diesel Oil			Gas/Diesel Oil			Gas/Diesel Oil	CHP/liter	579.58
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	CHP/MWh	66,649
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial	CHP/MWh	74,614
						Commercial	CHP/MWh	105,632
						Residential	CHP/MWh	101,902
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		
Charcoal								

3.5 China

Energy Balance Table of People's Republic of China

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2011									
Indigenous Production	1,828,168	-	202,876	-	-	-	-	-	-
Import	92,919	79	253,779	52,117	29	2,248	5,015	2	2,373
Export	-8,238	-2,242	-2,514	-29,814	-4,077	-456	-6,334	-2	-2,052
International Marine Bunkers	-	-	-	-1,181	-	-	-553	-	-196
International Aviation Bunkers	-	-	-	-2,645	-	-	-2,645	-	-
Stock Changes	-36,928	-7,026	-14,530	-6,101	-1,175	-413	-109	-13	-796
Total Primary Energy Supply	1,875,921	-9,190	439,610	12,376	-5,223	1,379	-4,626	-13	-670
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-1,271,515	109,571	-432,661	408,501	80,849	25,380	19,537	1,071	159,611
Main Activity Producer	-828,347	-1,265	-113	-4,001	-	-	-	-	-400
Autoproducers	-131,640	-21,794	-46	-3,783	-0	-	-	-	-24
Gas Processing	-4,824	-741	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-432,502	464,742	80,851	27,543	19,537	1,071	160,035
Coal Transformation	-306,704	133,372	-	-	-	-	-	-	-
Other Transformation	-	-	-	-48,457	-2	-2,163	-	-	-
Loss & Own Use	-55,871	-6,886	-4,730	-6,742	-754	-	-	-24	-4,628
Discrepancy	-74,755	-8,272	-668	-1,785	-50	-140	1	698	113
Total Final Energy Consumption	473,780	85,222	1,552	412,350	74,822	26,619	14,912	1,731	154,426
Industry Sector	389,131	80,154	864	96,703	8,187	356	-	440	18,845
Iron and Steel	57,393	34,208	2	1,838	115	-	-	3	852
Chemical & Petrochemical	58,236	24,984	823	34,793	690	355	-	56	1,064
Non-metallic Minerals	127,094	5,074	20	17,075	347	0	-	36	2,537
Other Industries	146,408	15,888	18	42,998	7,034	1	-	345	14,392
Transport Sector	3,322	1	-	159,989	34,147	-	14,912	1	96,749
Domestic Air Transport	-	-	-	15,830	-	-	14,912	-	291
Road	-	-	-	101,399	29,004	-	-	-	71,838
Rail	3,260	0	-	5,169	84	-	-	1	5,054
Inland Waterways	61	0	-	27,274	1,162	-	-	-	13,229
Pipeline Transport	-	-	-	79	1	-	-	-	1
Non-specified Transport	-	-	-	10,238	3,896	-	-	-	6,336
Other Sector	81,327	5,068	-	93,519	32,289	-	-	1,291	38,832
Residential	48,443	4,316	-	43,677	15,023	-	-	242	9,126
Commerce and Public Services	11,834	197	-	5,243	1,825	-	-	331	2,166
Agriculture	9,664	368	-	14,984	1,916	-	-	15	12,973
Non-specified Others	11,386	187	-	29,614	13,526	-	-	703	14,566
Non-energy	-	-	688	62,139	200	26,262	-	-	-
2010									
Indigenous Production	1,691,720	-	203,014	-	-	-	-	-	-
Import	83,167	74	237,682	48,262	0	2,667	5,014	2	1,836
Export	-10,356	-2,278	-3,030	-30,460	-5,192	-798	-6,363	-2	-4,733
International Marine Bunkers	-	-	-	-901	-	-	-272	-	-196
International Aviation Bunkers	-	-	-	-2,462	-	-	-2,462	-	-
Stock Changes	-92,907	-11,080	-8,900	-5,120	711	-1,835	-90	-18	791
Total Primary Energy Supply	1,671,623	-13,284	428,766	9,319	-4,481	34	-4,174	-18	-2,302
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-1,127,580	99,460	-418,764	392,389	75,108	17,724	18,790	1,708	151,029
Main Activity Producer	-730,777	-1,219	-37	-5,649	-	-	-	-	-1,161
Autoproducers	-118,643	-18,426	-33	-4,395	-1	-	-	-	-39
Gas Processing	-5,744	-872	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-418,694	439,463	75,109	17,807	18,790	1,735	152,229
Coal Transformation	-272,416	119,976	-	-	-	-	-	-	-
Other Transformation	-	-	-	-37,030	-	-83	-	-27	-
Loss & Own Use	-59,737	-5,123	-6,406	-6,106	-742	-	-	-26	-3,804
Discrepancy	-17,173	-6,187	-361	-8,860	-271	-865	-18	-243	-662
Total Final Energy Consumption	467,133	74,866	3,235	386,742	69,614	16,893	14,598	1,420	144,261
Industry Sector	384,555	69,324	2,174	119,803	8,960	14,232	-	451	22,067
Iron and Steel	54,826	32,075	3	1,879	138	-	-	5	1,010
Chemical & Petrochemical	54,556	20,017	2,123	46,944	641	14,231	-	82	1,894
Non-metallic Minerals	120,319	3,526	25	18,841	386	-	-	12	2,957
Other Industries	154,855	13,705	24	52,140	7,795	1	-	351	16,205
Transport Sector	3,291	1	-	147,899	32,440	-	14,598	1	86,889
Domestic Air Transport	-	-	-	15,481	-	-	14,598	-	265
Road	-	-	-	91,245	27,552	-	-	-	63,149
Rail	3,231	1	-	5,542	83	-	-	1	5,430
Inland Waterways	60	0	-	26,018	1,104	-	-	-	12,216
Pipeline Transport	-	-	-	78	1	-	-	-	1
Non-specified Transport	-	-	-	9,535	3,701	-	-	-	5,828
Other Sector	79,286	5,541	-	83,516	27,986	-	-	968	35,305
Residential	48,464	4,846	-	38,046	12,501	-	-	200	7,861
Commerce and Public Services	10,587	203	-	5,056	1,732	-	-	360	2,005
Agriculture	9,408	318	-	14,127	1,741	-	-	9	12,309
Non-specified Others	10,828	173	-	26,288	12,012	-	-	399	13,129
Non-energy	-	-	1,061	35,523	228	2,661	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	95,603	60,109	22,503	6,048	8,058	-	-	2,223,366
26,835	4,195	-	-	11,420	29,230	-	-	-	-	564	-	428,688
-12,271	-1,429	-	-	-3,193	-2,968	-	-	-	-	-1,660	-	-47,437
-433	-	-	-	-	-	-	-	-	-	-	-	-1,181
-	-	-	-	-	-	-	-	-	-	-	-	-2,645
-260	36	-	-	-3,371	-	-	-	-	-	-	-	-64,586
13,872	2,802	-	-	4,856	121,866	60,109	22,503	6,048	8,058	-1,096	-	2,536,205
-	-	-	-	-	-	-	-	-	-	-	-	-
8,692	25,509	13,873	-	73,979	-22,662	-60,109	-22,503	-6,048	-8,029	405,320	75,868	-824,269
-1,344	-	-790	-	-1,467	-19,459	-60,109	-22,503	-6,048	-8,019	365,643	41,727	-542,496
-1,103	-7	-1,506	-	-1,144	-4,212	-	-	-	-	39,677	34,140	-87,657
-	-	-	-	-	1,009	-	-	-	-	-	-	-4,557
23,018	27,009	17,030	-	108,648	-	-	-	-	-	-	-	32,240
-	-	-	-	-	-	-	-	-	-	-	-	-173,332
-11,880	-1,493	-861	-	-32,058	-	-	-	-	-10	-	-	-48,467
-320	-222	-399	-	-396	-16,737	-	-	-	-	-72,264	-10,687	-173,916
-261	-168	-58	-	-1,918	-73	-	-	-	-29	-16	-1	-85,599
21,983	27,921	13,416	-	76,520	82,394	-	-	-	-	331,944	65,179	1,452,421
8,262	5,652	13,290	-	41,671	33,193	-	-	-	-	231,001	44,970	876,017
89	650	0	-	129	2,671	-	-	-	-	45,135	6,435	147,681
2,551	2,620	13,281	-	14,176	15,711	-	-	-	-	30,344	16,526	181,417
3,121	1,152	6	-	9,875	6,132	-	-	-	-	25,094	292	180,782
2,501	1,230	3	-	17,492	8,680	-	-	-	-	130,428	21,717	366,137
13,452	729	-	-	-	11,908	-	-	-	-	7,296	-	182,516
626	1	-	-	-	-	-	-	-	-	-	-	15,830
36	521	-	-	-	10,824	-	-	-	-	-	-	112,222
21	9	-	-	-	-	-	-	-	-	3,985	-	12,415
12,691	192	-	-	-	-	-	-	-	-	-	-	27,336
78	-	-	-	-	168	-	-	-	-	257	-	503
-	7	-	-	-	916	-	-	-	-	3,055	-	14,209
269	20,838	-	-	-	31,695	-	-	-	-	93,646	20,210	325,464
-	19,286	-	-	-	25,888	-	-	-	-	48,333	16,741	187,397
93	828	-	-	-	3,228	-	-	-	-	12,926	1,029	34,457
13	67	-	-	-	52	-	-	-	-	8,711	22	33,800
162	657	-	-	-	2,527	-	-	-	-	23,676	2,419	69,810
-	702	126	-	34,849	5,597	-	-	-	-	-	-	68,425
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	88,303	62,107	19,253	3,837	18,882	-	-	2,087,116
22,990	3,924	-	-	11,829	15,511	-	-	-	-	477	-	385,173
-9,900	-1,116	-	-	-2,357	-3,752	-	-	-	-	-1,639	-	-51,515
-433	-	-	-	-	-	-	-	-	-	-	-	-901
-	-	-	-	-	-	-	-	-	-	-	-	-2,462
30	-29	-	-	-4,678	-	-	-	-	-	-	-	-118,007
12,687	2,779	-	-	4,794	100,062	62,107	19,253	3,837	18,882	-1,162	-	2,299,404
-	-	-	-	-	-	-	-	-	-	-	-	-
11,821	24,535	12,364	-	79,311	-18,783	-62,107	-19,253	-3,837	-18,883	361,816	70,886	-744,657
-2,044	-	-814	-	-1,629	-16,137	-62,107	-19,253	-3,837	-18,883	327,247	39,036	-491,616
-1,208	-11	-1,934	-	-1,203	-3,795	-	-	-	-	34,569	31,850	-78,872
-	-	-	-	-	1,149	-	-	-	-	-	-	-5,467
25,370	25,227	16,068	-	107,128	-	-	-	-	-	-	-	20,769
-	-	-	-	-	-	-	-	-	-	-	-	-152,440
-10,296	-682	-957	-	-24,985	-	-	-	-	-	-	-	-37,030
-458	-373	-393	-	-309	-14,690	-	-	-	-	-63,943	-10,260	-166,266
-476	-1,122	-237	-	-4,965	-296	-	-	-	1	-17	293	-32,599
23,573	25,818	11,733	-	78,830	66,293	-	-	-	-	296,693	60,919	1,355,881
10,074	5,398	11,733	-	46,889	25,373	-	-	-	-	205,710	41,663	848,602
234	413	1	-	78	1,925	-	-	-	-	39,660	5,915	136,283
3,061	2,194	11,641	-	13,200	12,614	-	-	-	-	27,046	14,804	178,105
3,536	1,327	13	-	10,610	4,167	-	-	-	-	21,057	319	168,253
3,242	1,465	79	-	23,001	6,667	-	-	-	-	117,946	20,624	365,962
13,267	704	-	-	-	9,040	-	-	-	-	6,317	-	166,547
617	1	-	-	-	-	-	-	-	-	-	-	15,481
35	508	-	-	-	8,130	-	-	-	-	-	-	99,374
21	8	-	-	-	-	-	-	-	-	3,422	-	12,196
12,517	181	-	-	-	-	-	-	-	-	-	-	26,078
76	-	-	-	-	152	-	-	-	-	239	-	469
-	7	-	-	-	758	-	-	-	-	2,656	-	12,949
233	19,024	-	-	-	27,469	-	-	-	-	84,667	19,256	299,735
-	17,484	-	-	-	22,466	-	-	-	-	44,072	16,111	174,005
86	872	-	-	-	2,536	-	-	-	-	11,111	933	30,426
11	56	-	-	-	47	-	-	-	-	8,398	22	32,319
135	612	-	-	-	2,421	-	-	-	-	21,086	2,190	62,986
-	693	-	-	31,942	4,411	-	-	-	-	-	-	40,996

Major Energy Indicators of China

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	654,004	905,175	1,539,359	1,793,278	1,951,993	2,117,844	2,299,404	2,536,205
Indigenous Production	705,811	865,531	1,426,025	1,637,717	1,816,625	1,897,388	2,087,116	2,223,366
Import	8,436	96,856	184,280	240,314	254,443	331,685	385,173	428,688
Export	-38,922	-64,437	-46,884	-63,992	-61,416	-49,650	-51,515	-47,437
Final Energy Consumption	489,928	634,676	903,638	1,051,475	1,218,756	1,279,634	1,355,881	1,452,421
Industry	329,825	379,343	527,901	628,050	754,164	794,561	848,602	876,017
Transport	28,776	60,078	104,959	126,222	145,300	149,602	166,547	182,516
Residential	-	81,851	125,945	141,097	164,445	171,750	174,005	187,397
Commerce & Public Services	-	14,140	27,440	28,109	26,128	29,655	30,426	34,457
Others	131,327	99,264	117,393	127,997	128,719	134,066	136,301	172,035
Coal, Coal Products								
Primary Energy Supply	512,155	631,243	1,122,099	1,304,830	1,431,782	1,568,767	1,658,339	1,866,731
Indigenous Production	539,952	649,618	1,143,269	1,322,584	1,471,741	1,557,291	1,691,720	1,828,168
Import	877	1,496	15,686	30,634	24,770	72,637	83,241	92,998
Export	-7,785	-40,130	-18,528	-38,343	-32,491	-11,866	-12,634	-10,480
Transformation Sector	-	-	-676,278	-851,530	-906,139	-959,259	-1,028,120	-1,161,945
Power Generation	-119,784	-327,372	-583,983	-732,685	-743,252	-786,944	-869,064	-983,047
Final Energy Consumption	338,239	296,805	367,076	392,470	461,573	476,501	541,999	559,002
Industry	224,832	216,937	278,711	312,198	371,056	384,394	453,879	469,286
Transport	11,089	5,540	5,470	4,504	4,370	4,208	3,292	3,323
Residential	-	42,496	57,455	53,274	58,089	57,509	53,310	52,759
Commerce & Public Services	-	4,275	9,674	5,781	10,737	11,829	10,790	12,031
Others	102,319	27,556	15,766	16,713	17,321	18,561	20,728	21,605
Crude Oil								
Primary Energy Supply	117,828	213,834	299,315	340,351	354,986	381,305	428,766	439,610
Indigenous Production	138,448	163,003	181,353	186,318	195,050	189,490	203,014	202,876
Import	2,926	70,267	126,817	163,160	178,885	203,653	237,682	253,779
Export	-24,014	-10,306	-8,067	-3,884	-4,238	-5,073	-3,030	-2,514
Transformation Sector	-	-	-290,621	-328,491	-341,051	-371,158	-418,764	-432,661
Petroleum Refineries	-109,722	-203,057	-290,405	-328,326	-340,953	-371,094	-418,694	-432,502
Petroleum Products								
Primary Energy Supply	-3,389	10,828	19,828	18,847	15,228	14,023	9,319	12,376
Import	4,634	24,960	41,484	42,412	46,171	47,771	48,262	52,117
Export	-7,123	-10,229	-16,710	-18,092	-20,235	-28,229	-30,460	-29,814
Transformation Sector	-	-	264,109	306,020	319,368	349,738	392,389	408,501
Power Generation	-11,140	-15,203	-19,899	-13,031	-11,963	-8,902	-10,044	-7,784
Petroleum Refineries	107,409	198,116	284,152	319,100	331,352	358,643	439,463	464,742
Final Energy Consumption	80,728	187,223	277,903	318,263	329,241	347,032	386,742	412,350
Industry	47,912	62,920	77,324	84,896	85,153	91,860	119,803	96,703
Transport	16,676	51,830	94,924	116,165	130,122	132,489	147,899	159,989
Residential	-	14,615	20,728	26,064	32,461	35,095	38,046	43,677
Commerce & Public Services	-	5,677	9,543	11,660	3,844	4,512	5,056	5,243
Others	16,140	52,181	75,385	79,477	77,661	83,075	75,938	106,738
Natural Gas								
Primary Energy Supply	14,242	22,401	44,665	65,784	76,025	83,505	100,062	121,866
Indigenous Production	14,242	25,323	47,429	64,462	74,759	79,385	88,303	95,603
Import	-	-	-	3,743	4,286	7,107	15,511	29,230
Export	-	-2,922	-2,764	-2,421	-3,021	-2,988	-3,752	-2,968
Transformation Sector	-	-	2,492	-1,961	61,374	67,969	-18,783	-22,662
Power Generation	-680	-4,855	-5,092	-9,357	-14,743	-20,621	-19,932	-23,671
Final Energy Consumption	13,205	24,087	38,454	53,248	123,698	136,593	66,293	82,394
Industry	11,084	14,147	20,241	28,122	88,727	102,837	25,373	33,193
Transport	47	93	863	979	5,891	7,598	9,040	11,908
Residential	-	4,810	11,103	16,816	21,087	21,231	22,466	25,888
Commerce & Public Services	-	378	1,226	1,931	1,982	2,725	2,536	3,228
Others	2,074	4,659	5,021	5,401	6,011	2,201	6,879	8,177
Electricity								
Power Generation	53,440	116,428	214,823	282,214	298,152	319,460	361,816	405,320
Thermal	42,540	94,348	173,981	231,622	238,290	260,423	270,571	323,642
Hydro	10,900	19,134	34,143	41,733	50,326	52,945	62,107	60,109
Nuclear	-	1,454	4,612	5,397	5,941	6,092	6,418	7,501
Others	-	1,491	2,087	3,462	3,595	-	22,720	14,068
Final Energy Consumption	52,150	90,621	169,807	229,950	243,839	261,801	296,693	331,944
Industry	40,392	59,109	116,274	162,640	167,819	177,389	205,710	231,001
Transport	964	2,419	3,701	4,574	4,918	5,306	6,317	7,296
Residential	-	14,384	24,293	31,155	37,806	41,901	44,072	48,333
Commerce & Public Services	-	3,387	6,470	7,996	8,750	9,776	11,111	12,926
Others	10,794	11,323	19,068	23,584	24,546	27,429	29,484	32,387

Major Economic Indicators of People's Republic of China

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	1,135.19	1,262.65	1,303.72	1,317.89	1,324.66	1,331.26	1,337.71	1,344.13
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	444.59	1,198.46	1,908.76	2,456.64	2,692.48	2,940.19	3,245.97	3,547.84
Real Term (Billions of 2000 Price and 2000 PPP)	1,108.44	2,987.95	4,758.84	6,124.79	6,712.77	7,330.35	8,092.70	8,845.33
Nominal (Billions of Current USD)	390.28	1,198.46	2,256.90	3,494.04	4,519.51	4,990.22	5,930.53	7,321.94
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	392	949	1,464	1,864	2,033	2,209	2,427	2,640
Real Term (2000 Price and 2000 PPP)	976	2,366	3,650	4,647	5,068	5,506	6,050	6,581
Nominal (Current USD)	344	949	1,731	2,651	3,412	3,748	4,433	5,447
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	1,866.78	9,921.46	18,493.74	26,581.03	31,404.54	34,090.28	40,151.28	47,310.40
Household Final Consumption Expenditure, etc.	945.09	4,585.46	7,265.25	9,560.98	11,059.45	12,112.99	14,075.86	16,281.30
General Government Final Consumption Expenditure	263.96	1,566.14	2,639.88	3,590.04	4,175.21	4,569.02	5,335.64	6,192.78
Gross Fixed Capital Formation	482.78	3,384.44	7,423.29	10,394.86	12,808.44	15,667.98	18,361.52	21,519.70
Stock Change	191.92	99.84	362.39	699.46	1,024.09	778.34	998.87	1,390.54
Exports of Goods and Services	300.07	2,314.32	6,857.71	10,210.83	10,985.15	9,106.44	12,292.13	14,836.15
Imports of Goods and Services	244.27	2,075.29	5,835.08	7,871.70	8,562.22	7,603.16	10,719.79	12,911.90
Real GDP & its Components (Billions of 1990 CNY) *1								
Gross Domestic Product	3,680.56	9,921.46	15,801.70	20,337.32	22,289.71	24,340.36	26,871.76	29,370.83
Household Final Consumption Expenditure, etc.	2,074.09	4,585.46	6,275.03	7,538.38	8,148.10	8,913.98	9,650.17	10,559.60
General Government Final Consumption Expenditure	579.28	1,566.14	2,271.38	2,811.18	3,050.13	3,303.30	3,666.66	4,022.32
Gross Fixed Capital Formation	859.96	3,384.44	6,122.33	7,831.35	8,583.16	10,548.70	11,772.35	12,890.72
Stock Change	341.10	99.84	299.48	521.57	680.23	521.04	636.83	N.A.
Exports of Goods and Services	526.87	2,314.32	6,554.96	9,731.28	10,549.91	9,460.65	12,081.80	13,141.76
Imports of Goods and Services	404.35	2,075.29	5,229.02	6,913.26	7,175.00	7,472.54	8,977.02	9,406.88
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	27.9	15.1	11.5	9.7	9.3	8.9	8.4	8.0
Industry	34.8	45.9	48.2	48.8	49.0	49.3	50.1	50.6
Services, etc.	37.3	39.0	40.4	41.5	41.7	41.8	41.5	41.4
Industrial Production Index (2000=100) *3*4	27.3	100.0	167.6	217.4	239.0	259.9	291.3	321.5
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	62.091	249.203	761.953	1,220.456	1,430.693	1,201.612	1,577.754	1,898.381
Imports, c.i.f.	53.345	225.094	659.953	956.116	1,132.567	1,005.923	1,396.247	1,743.484
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	119.660	290.813	341.860	235.179	245.539	236.050
Current Account	N.A.	N.A.	132.378	353.183	420.569	243.257	237.810	136.097
Overall Balance	N.A.	N.A.	250.975	460.651	479.553	400.508	471.659	387.799
Foreign Exchange Rate (CNY/USD) *1	4.7832	8.2785	8.1943	7.6075	6.9487	6.8314	6.7703	6.4615
Purchasing Power Parity (CNY/International Dollar) *1	2.0687	3.3205	3.4476	3.6247	3.8228	3.7670	3.9658	4.1862
Price Indices								
GDP Deflator (2000=100) *4	50.7	100.0	117.0	130.7	140.9	140.1	149.4	161.1
Wholesale Price Index (1995=100) *4	51.8	98.7	108.5	115.2	123.2	116.5	122.9	130.3
Consumer Price Index (1995=100) *4	58.3	99.5	100.9	105.8	112.0	110.7	114.1	119.7
Growth Rate (%)								
Real GDP *4	3.80	8.40	11.30	14.20	9.60	9.20	10.40	9.30
Population *4	1.48	0.79	0.59	0.52	0.51	0.50	0.48	0.48
Price *4								
Wholesale Price Index	4.1	2.8	4.9	3.1	6.9	-5.4	5.5	6.0
Consumer Price Index	2.1	-1.5	0.8	3.8	5.9	-1.2	3.1	4.9

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	
2011									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	7,891	-	-	21,525	414	302	5,432	16	5,357
Export	-0	-	-	-497	-16	-	-141	-	-65
International Marine Bunkers	-	-	-	-9,428	-	-	-	-	-3,314
International Aviation Bunkers	-	-	-	-5,271	-	-	-5,271	-	-
Stock Changes	-488	-	-	-3,130	-8	15	-17	-	39
Total Primary Energy Supply	7,403	-	-	3,199	390	317	2	16	2,018
Transfers	-	-	-	4	-	-	-	-	4
Total Transformation Sector	-7,403	-	-	-354	-	-317	-	-	-14
Main Activity Producer	-7,403	-	-	-37	-	-	-	-	-14
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-317	-	-317	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	0	-	-	-454	63	-	3	-0	-519
Total Final Energy Consumption	0	-	-	2,395	453	-	5	16	1,489
Industry Sector	0	-	-	97	-	-	-	1	95
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	0	-	-	97	-	-	-	1	95
Transport Sector	-	-	-	2,084	453	-	5	-	1,303
Domestic Air Transport	-	-	-	5	-	-	5	-	-
Road	-	-	-	1,872	447	-	-	-	1,102
Rail	-	-	-	0	-	-	-	-	0
Inland Waterways	-	-	-	207	6	-	-	-	201
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	214	-	-	-	15	91
Residential	-	-	-	63	-	-	-	1	-
Commerce and Public Services	-	-	-	152	-	-	-	14	91
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	-	-	-	-	-	-
2010									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	6,503	-	-	21,530	414	302	5,432	16	5,362
Export	-0	-	-	-498	-16	-	-141	-	-66
International Marine Bunkers	-	-	-	-9,428	-	-	-	-	-3,314
International Aviation Bunkers	-	-	-	-5,271	-	-	-5,271	-	-
Stock Changes	-278	-	-	-3,130	-8	15	-17	-	39
Total Primary Energy Supply	6,225	-	-	3,202	390	317	2	16	2,022
Transfers	-	-	-	0	-	-	-	-	0
Total Transformation Sector	-6,224	-	-	-354	-	-317	-	-	-14
Main Activity Producer	-6,224	-	-	-37	-	-	-	-	-14
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-317	-	-317	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-	-454	63	-	3	-1	-518
Total Final Energy Consumption	0	-	-	2,394	453	-	5	15	1,489
Industry Sector	0	-	-	95	-	-	-	-	95
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	0	-	-	95	-	-	-	-	95
Transport Sector	-	-	-	2,084	453	-	5	-	1,303
Domestic Air Transport	-	-	-	5	-	-	5	-	-
Road	-	-	-	1,872	447	-	-	-	1,102
Rail	-	-	-	0	-	-	-	-	0
Inland Waterways	-	-	-	207	6	-	-	-	201
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	214	-	-	-	15	91
Residential	-	-	-	63	-	-	-	1	-
Commerce and Public Services	-	-	-	152	-	-	-	14	91
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	53	-	-	54
9,582	423	-	-	-	2,270	-	-	-	13	975	-	32,674
-276	-	-	-	-	-	-	-	-	-4	-254	-	-755
-6,114	-	-	-	-	-	-	-	-	-	-	-	-9,428
-	-	-	-	-	-	-	-	-	-	-	-	-5,271
-3,169	10	-	-	-	289	-	-	-	-	-	-	-3,329
23	433	-	-	-	2,559	-	-	0	62	721	-	13,944
-	-	-	-	-	-	-	-	-	-	-	-	4
-23	-	-	-	-	-2,559	-	-	-0	-27	3,360	-	-6,983
-23	-	-	-	-	-2,559	-	-	-0	-	3,356	-	-6,643
-	-	-	-	-	-	-	-	-0	-3	4	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-317
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-24	-	-	-24
-	-	-	-	-	-	-	-	-	-	-460	-	-460
0	-0	-	-	-	-0	-	-	-0	1	0	-	-453
-	433	-	-	-	-	-	-	0	36	3,621	-	6,052
-	0	-	-	-	-	-	-	0	-	-	-	97
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	-	-	-	-	0	-	-	-	97
-	324	-	-	-	-	-	-	-	-	-	-	2,084
-	-	-	-	-	-	-	-	-	-	-	-	5
-	324	-	-	-	-	-	-	-	-	-	-	1,872
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	207
-	-	-	-	-	-	-	-	-	-	-	-	-
-	109	-	-	-	-	-	-	0	36	3,621	-	3,872
-	62	-	-	-	-	-	-	-	-	-	-	63
-	47	-	-	-	-	-	-	0	36	-	-	187
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	3,621	-	3,621
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0	53	-	-	54
9,582	423	-	-	-	2,850	-	-	-	9	950	-	31,842
-276	-	-	-	-	-	-	-	-	-3	-224	-	-726
-6,114	-	-	-	-	-	-	-	-	-	-	-	-9,428
-	-	-	-	-	-	-	-	-	-	-	-	-5,271
-3,169	10	-	-	-	295	-	-	-	-	-	-	-3,113
23	433	-	-	-	3,145	-	-	0	59	726	-	13,358
-	-	-	-	-	-	-	-	-	-	-	-	0
-23	-	-	-	-	-2,487	-	-	-0	-23	3,297	-	-5,792
-23	-	-	-	-	-2,487	-	-	-0	-	3,293	-	-5,455
-	-	-	-	-	-	-	-	-0	-3	4	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-317
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-20	-	-	-20
-	-	-	-	-	-	-	-	-	-	-418	-	-418
0	-0	-	-	-	-0	-	-	-0	-0	-0	-	-454
-	433	-	-	-	659	-	-	0	37	3,604	-	6,693
-	0	-	-	-	22	-	-	0	-	265	-	382
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	-	22	-	-	0	-	265	-	382
-	324	-	-	-	-	-	-	-	-	61	-	2,145
-	-	-	-	-	-	-	-	-	-	-	-	5
-	324	-	-	-	-	-	-	-	-	-	-	1,872
-	-	-	-	-	-	-	-	-	-	61	-	61
-	-	-	-	-	-	-	-	-	-	-	-	207
-	-	-	-	-	-	-	-	-	-	-	-	-
-	109	-	-	-	637	-	-	0	37	3,278	-	4,166
-	62	-	-	-	365	-	-	-	-	940	-	1,367
-	47	-	-	-	272	-	-	0	33	2,338	-	2,795
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	4	-	-	4
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Hong Kong, China

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	10,643	15,094	14,094	13,968	13,402	13,400	13,358	13,944
Indigenous Production	-	-	81	98	98	65	54	54
Import	12,918	19,786	25,210	28,377	26,015	30,381	31,842	32,674
Export	-2,123	-1,557	-1,763	-1,309	-1,146	-1,101	-726	-755
Final Energy Consumption	6,689	11,204	6,696	7,106	6,879	6,887	6,693	6,052
Industry	1,516	1,714	574	656	764	636	382	97
Transport	3,136	6,088	2,334	2,429	2,144	2,155	2,145	2,084
Residential	-	-	1,220	1,299	1,289	1,360	1,367	63
Commerce & Public Services	-	-	2,440	2,722	2,682	2,736	2,795	187
Others	2,037	3,401	128	-	-	0	4	3,621
Coal, Coal Products								
Primary Energy Supply	6,008	4,125	6,870	7,480	6,850	7,154	6,225	7,403
Indigenous Production	-	-	-	-	-	-	-	-
Import	5,362	3,658	6,826	7,727	7,146	7,767	6,503	7,891
Export	-1	-24	-0	-2	-0	-0	-0	-0
Transformation Sector	-	-	-6,869	-7,478	-6,850	-7,154	-6,224	-7,403
Power Generation	-5,996	-4,121	-6,869	-7,478	-6,850	-7,154	-6,224	-7,403
Final Energy Consumption	12	4	1	2	-	0	0	0
Industry	-	-	1	2	-	0	0	0
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	12	4	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-
Petroleum Products								
Primary Energy Supply	4,790	8,186	4,552	3,924	3,917	2,988	3,202	3,199
Import	7,556	13,245	15,405	17,666	15,852	19,318	21,530	21,525
Export	-1,967	-1,431	-1,377	-960	-838	-778	-498	-497
Transformation Sector	-	-	-756	-393	-387	-333	-354	-354
Power Generation	-126	-37	-38	-30	-36	-45	-37	-37
Petroleum Refineries	-	-	-	-	-	-	-	-
Final Energy Consumption	4,304	7,518	2,665	2,935	2,764	2,623	2,394	2,395
Industry	908	1,269	204	319	453	308	95	97
Transport	3,136	6,088	2,210	2,370	2,084	2,095	2,084	2,084
Residential	-	-	33	74	68	64	63	63
Commerce & Public Services	-	-	89	171	159	157	152	152
Others	260	161	128	-	-	-	-	-
Natural Gas								
Primary Energy Supply	-	2,007	2,033	1,870	1,870	2,512	3,145	2,559
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	2,007	2,033	2,041	2,041	2,293	2,850	2,270
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-1,447	-1,224	-1,277	-1,861	-2,487	-2,559
Power Generation	-	-2,007	-2,033	-1,621	-1,500	-1,861	-2,487	-2,559
Final Energy Consumption	324	560	586	646	593	651	659	-
Industry	13	21	19	21	19	22	22	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	332	354	335	366	365	-
Commerce & Public Services	-	-	235	270	238	264	272	-
Others	311	539	-	-	-	-	-	-
Electricity								
Power Generation	2,488	2,694	3,307	3,937	3,586	3,563	3,297	3,360
Thermal	2,488	2,694	3,266	3,839	3,489	3,551	3,293	3,356
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	41	98	98	12	4	4
Final Energy Consumption	2,049	3,121	3,444	3,523	3,520	3,572	3,604	3,621
Industry	596	424	350	313	291	270	265	-
Transport	-	-	123	60	60	60	61	-
Residential	-	-	856	870	886	931	940	-
Commerce & Public Services	-	-	2,116	2,280	2,282	2,311	2,338	-
Others	1,454	2,697	-	-	-	-	-	3,621

Major Economic Indicators of Hong Kong, China

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	5.70	6.67	6.81	6.92	6.96	6.97	7.02	7.07
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	116.51	171.67	211.11	240.57	245.69	239.65	255.93	268.34
Real Term (Billions of 2000 Price and 2000 PPP)	121.55	179.10	220.25	250.98	256.32	250.02	267.01	279.96
Nominal (Billions of Current USD)	76.93	171.67	181.57	211.60	219.28	214.05	228.70	248.73
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	20,424	25,757	30,986	34,783	35,311	34,369	36,435	37,946
Real Term (2000 Price and 2000 PPP)	21,309	26,872	32,327	36,289	36,840	35,857	38,012	39,589
Nominal (Current USD)	13,486	25,757	26,650	30,594	31,516	30,698	32,558	35,173
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	599.26	1,337.50	1,412.13	1,650.76	1,707.49	1,659.25	1,776.78	1,936.08
Household Final Consumption Expenditure, etc.	344.30	784.32	811.65	982.37	1,026.48	1,019.96	1,098.56	1,240.84
General Government Final Consumption Expenditure	40.97	125.29	130.57	138.97	148.02	152.51	157.37	168.49
Gross Fixed Capital Formation	157.09	354.52	302.15	340.36	350.80	339.55	386.85	455.05
Stock Change	5.73	14.40	-4.76	12.84	8.48	22.94	37.52	11.74
Exports of Goods and Services	782.97	1,896.10	2,748.73	3,362.95	3,564.84	3,167.54	3,890.75	4,347.90
Imports of Goods and Services	731.80	1,837.13	2,576.22	3,186.73	3,391.12	3,043.26	3,794.27	4,287.94
Real GDP & its Components (Billions of 2000 HKD) *1								
Gross Domestic Product	840.62	1,238.59	1,523.19	1,735.70	1,772.64	1,729.05	1,846.51	1,936.08
Household Final Consumption Expenditure, etc.	546.03	826.12	905.16	1,043.38	1,063.20	1,071.56	1,138.59	1,240.84
General Government Final Consumption Expenditure	85.31	132.38	146.44	152.41	155.50	159.11	164.44	168.49
Gross Fixed Capital Formation	206.74	329.17	354.79	391.87	397.32	383.54	413.04	455.05
Stock Change	8.81	18.35	-5.98	16.12	9.52	27.49	43.53	11.74
Exports of Goods and Services	910.22	2,140.73	3,289.04	3,898.82	3,997.33	3,589.67	4,191.20	4,347.90
Imports of Goods and Services	888.25	2,183.55	3,150.69	3,752.41	3,836.27	3,492.30	4,098.96	4,287.94
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Industry	N.A.	11.5	7.8	6.6	6.6	6.4	6.5	6.7
Services, etc.	N.A.	84.3	88.4	89.0	89.2	89.5	89.4	89.6
Manufacturing Production (2005=100) *2	112.6	94.0	100.0	100.8	94.0	86.2	89.3	89.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	82.390	202.683	292.119	349.386	370.242	329.422	400.692	455.573
Imports, c.i.f.	84.725	214.042	300.160	370.132	392.962	352.241	441.369	510.855
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	-8.193	31.068	26.861	25.029	12.592	2.366	-8.601
Current Account	N.A.	6.993	21.575	27.555	32.872	20.338	14.998	11.944
Overall Balance	N.A.	10.044	-1.773	8.247	28.767	79.017	7.616	11.153
Foreign Exchange Rate (HKD/USD) *1	7.7898	7.7912	7.7773	7.8014	7.7868	7.7518	7.7692	7.7840
Purchasing Power Parity (HKD/International Dollar) *1	6.0556	7.4679	5.6878	5.4933	5.4433	5.3756	5.3191	5.4126
Price Indices								
GDP Deflator (2009=100) *3	71.3	108.0	92.7	95.1	96.3	96.0	96.2	100.0
Producer Price Index (2005=100) *2	103.7	111.2	100.0	105.3	111.2	109.3	115.9	125.6
Consumer Price Index (2005=100) *2	63.6	107.1	100.0	104.1	108.5	109.2	111.8	117.6
Growth Rate (%) *3								
Real GDP	3.83	7.66	7.39	6.46	2.13	-2.46	6.79	4.85
Population	0.32	0.89	0.44	0.86	0.60	0.22	0.74	0.67
Price								
Producer Price Index	N.A.	0.2	-7.9	3.0	5.6	-1.7	6.0	8.3
Consumer Price Index	10.2	-3.7	0.9	2.0	4.3	0.6	2.3	5.3

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 2011

Currency Exchange Rate

	Local currency / US Dollar	
Currency Exchange Rate		
Local Currency Unit		HK\$

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	HK\$ / t	6,274.67	Anthracite			Anthracite		
Other bituminous coal	HK\$ / t	726.00	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	HK\$ / kg	7.40	LPG			LPG	HK\$ / kg	20.01
Naphtha			Naphtha			Naphtha		
Motor Gasoline	HK\$ / l	6.33	Motor Gasoline			Motor Gasoline	HK\$ / l	15.29
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	HK\$ / l	6.10	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	HK\$ / l	4.95	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	HK\$ / kg	2.57	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	HK\$ / l	6.12				Environmental diesel oil (road)	HK\$ / l	11.61

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	
2011									
Indigenous Production	207,723	-	51,322	-	-	-	-	-	-
Import	25	-	14,808	26,315	14,085	-	699	-	8,150
Export	-160,331	-	-20,726	-606	-12	-204	-1	-364	-15
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-637	-	5,636	4,984	-392	-	-127	-6	5,451
Total Primary Energy Supply	46,780	-	51,040	30,693	13,680	-204	571	-370	13,586
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-26,530	-	-50,058	33,923	10,478	204	2,483	2,056	7,930
Main Activity Producer	-26,530	-	-	-10,003	-	-	-	-	-7,480
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-50,058	48,155	10,478	4,432	2,483	2,056	15,409
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-4,228	-	-4,228	-	-	-
Loss & Own Use	-	-	-	-97	-48	-	-	-3	-43
Discrepancy	-11	-	-981	-0	0	0	-	-	-
Total Final Energy Consumption	20,239	-	-	64,519	24,110	-	3,054	1,682	21,473
Industry Sector	20,239	-	-	9,971	-	-	-	96	4,769
Iron and Steel	98	-	-	-	-	-	-	-	-
Chemical & Petrochemical	3,453	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	16,688	-	-	9,971	-	-	-	96	4,769
Transport Sector	-	-	-	40,134	23,417	-	3,054	1	13,639
Domestic Air Transport	-	-	-	3,079	2	-	3,054	-	-
Road	-	-	-	37,055	23,415	-	-	1	13,639
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	10,633	693	-	-	1,585	3,065
Residential	-	-	-	6,386	-	-	-	1,440	-
Commerce and Public Services	-	-	-	910	-	-	-	80	675
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	3,337	693	-	-	66	2,389
Non-energy	-	-	-	3,781	-	-	-	-	-
2010									
Indigenous Production	161,797	-	58,008	-	-	-	-	-	-
Import	32	-	15,455	23,702	11,480	-	495	-	8,864
Export	-122,304	-	-20,558	-5,500	-3	-613	-0	-165	-201
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	0	-	-	1,721	-794	-	243	-133	1,781
Total Primary Energy Supply	39,525	-	52,904	19,923	10,683	-613	738	-298	10,444
Transfers	-	-	-2,777	2,606	-	-	-	-	-
Total Transformation Sector	-20,233	-38	-49,087	41,329	10,970	613	2,287	2,715	11,643
Main Activity Producer	-20,233	-	-	-8,428	-	-	-	-	-5,983
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-49,087	52,602	10,970	3,458	2,287	2,715	17,625
Coal Transformation	-	-38	-	-	-	-	-	-	-
Other Transformation	-	-	-	-2,845	-	-2,845	-	-	-
Loss & Own Use	-	-	-	-34	-	-	-	-5	-29
Discrepancy	-176	38	-1,041	-50	-41	-0	1	-0	-27
Total Final Energy Consumption	19,116	-	-	63,774	21,612	-	3,026	2,412	22,031
Industry Sector	19,116	-	-	7,786	-	-	-	138	5,664
Iron and Steel	197	-	-	-	-	-	-	-	-
Chemical & Petrochemical	3,709	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	15,210	-	-	7,786	-	-	-	138	5,664
Transport Sector	-	-	-	36,788	20,992	-	3,026	1	12,735
Domestic Air Transport	-	-	-	3,029	3	-	3,026	-	-
Road	-	-	-	33,723	20,988	-	-	-	12,735
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	36	-	-	-	1	-
Other Sector	-	-	-	12,074	621	-	-	2,273	3,632
Residential	-	-	-	7,162	-	-	-	2,065	-
Commerce and Public Services	-	-	-	3,906	-	-	-	114	3,632
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	1,006	621	-	-	94	-
Non-energy	-	-	-	7,127	-	-	-	-	-

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
-	-	-	-	-	72,796	1,068	-	8,124	-	-	-	341,034
1,004	2,377	-	-	-	-	-	-	-	-	-	-	41,148
-	-	-	-	-9	-35,778	-	-	-	-	-	-	-217,441
-	-	-	-	-	-	-	-	-	-	-	-	-
-23	82	-	-	-	-	-	-	-	-	-	-	9,983
980	2,459	-	-	-9	37,018	1,068	-	8,124	-	-	-	174,724
-	-	-	-	-	-	-	-	-	-	-	-	-
406	2,728	-	-	7,639	-14,416	-1,068	-	-8,124	-	15,774	-	-50,499
-2,523	-	-	-	-	-8,414	-1,068	-	-8,124	-	15,774	-	-38,364
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-5,589	-	-	-	-	-	-	-5,589
2,929	2,728	-	-	7,639	-	-	-	-	-	-	-	-1,904
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-413	-	-	-0	-	-	-	-4,642
-3	-	-	-	-	-5,410	-	-	-	-	-2,015	-	-7,522
-0	-	-	-	-	-195	-	-	-0	-	-11	-	-1,198
1,384	5,186	-	-	7,630	16,996	-	-	-	-	13,749	-	115,504
1,172	85	-	-	3,848	16,774	-	-	-	-	4,706	-	51,691
-	-	-	-	-	777	-	-	-	-	-	-	875
-	-	-	-	-	7,454	-	-	-	-	-	-	10,908
-	-	-	-	-	1,232	-	-	-	-	-	-	1,232
1,172	85	-	-	3,848	7,311	-	-	-	-	4,706	-	38,676
23	-	-	-	-	25	-	-	-	-	8	-	40,167
23	-	-	-	-	-	-	-	-	-	-	-	3,079
-	-	-	-	-	25	-	-	-	-	-	-	37,080
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	8	-	8
189	5,101	-	-	-	197	-	-	-	-	9,035	-	19,865
-	4,946	-	-	-	16	-	-	-	-	5,600	-	12,001
-	156	-	-	-	181	-	-	-	-	3,435	-	4,526
-	-	-	-	-	-	-	-	-	-	-	-	-
189	-	-	-	-	-	-	-	-	-	-	-	3,337
-	-	-	-	3,781	-	-	-	-	-	-	-	3,781
-	-	-	-	-	76,638	1,518	-	8,047	-	-	-	306,007
552	2,311	-	-	-	-	-	-	-	-	-	-	39,190
-96	-16	-	-	-4,406	-31,576	-	-	-	-	-	-	-179,938
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,020	-396	-	-	-	-	-	-	-	-	-	-	1,721
1,476	1,899	-	-	-4,406	45,062	1,518	-	8,047	-	-	-	166,980
-	2,606	-	-	-	-	-	-	-	-	-	-	-171
664	926	-	-	11,511	-21,499	-1,518	-	-8,047	-	14,602	-	-44,492
-2,445	-	-	-	-	-7,123	-1,518	-	-8,047	-	14,602	-	-30,747
-	-	-	-	-	-1,650	-	-	-	-	-	-	-1,650
-	-	-	-	-	-12,727	-	-	-	-	-	-	-12,727
3,109	926	-	-	11,511	-	-	-	-	-	-	-	3,515
-	-	-	-	-	-	-	-	-	-	-	-	-38
-	-	-	-	-	-	-	-	-0	-	-	-	-2,845
-	-	-	-	-	-5,880	-	-	-	-	-1,876	-	-7,790
-4	0	-	-	21	-1,543	-	-	-	-	-50	-	-2,822
2,136	5,431	-	-	7,127	16,139	-	-	0	-	12,675	-	111,705
1,810	175	-	-	-	15,976	-	-	-	-	4,385	-	47,262
-	-	-	-	-	502	-	-	-	-	-	-	699
-	-	-	-	-	7,452	-	-	-	-	-	-	11,161
-	-	-	-	-	1,098	-	-	-	-	-	-	1,098
1,810	175	-	-	-	6,924	-	-	-	-	4,385	-	34,304
35	-	-	-	-	10	-	-	-	-	8	-	36,805
-	-	-	-	-	-	-	-	-	-	-	-	3,029
-	-	-	-	-	10	-	-	-	-	-	-	33,733
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	8	-	44
291	5,256	-	-	-	154	-	-	0	-	8,283	-	20,510
-	5,097	-	-	-	19	-	-	0	-	5,145	-	12,326
-	159	-	-	-	135	-	-	-	-	3,138	-	7,178
-	-	-	-	-	-	-	-	-	-	-	-	-
291	-	-	-	-	-	-	-	-	-	-	-	1,006
-	-	-	-	7,127	-	-	-	-	-	-	-	7,127

Major Energy Indicators of Indonesia

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	53,252	101,236	130,970	133,746	157,722	158,016	166,980	174,724
Indigenous Production	119,434	183,995	206,158	238,064	271,799	290,486	306,007	341,034
Import	9,999	21,403	41,760	37,263	33,520	37,181	39,190	41,148
Export	-75,853	-103,804	-115,627	-144,127	-148,572	-168,980	-179,938	-217,441
Final Energy Consumption	33,956	63,569	74,750	88,297	100,345	92,182	111,705	115,504
Industry	11,767	22,658	29,104	35,427	42,244	37,124	47,262	51,691
Transport	11,205	21,452	25,858	26,515	26,025	30,729	36,805	40,167
Residential	-	-	13,227	12,018	11,829	11,409	12,326	12,001
Commerce & Public Services	-	-	1,679	3,712	3,765	3,960	7,178	4,526
Others	10,985	19,459	4,883	10,624	16,483	8,960	8,133	7,119
Coal, Coal Products								
Primary Energy Supply	4,056	10,956	23,742	34,337	40,635	32,805	39,525	46,780
Indigenous Production	5,785	44,007	82,754	121,445	134,652	150,835	161,797	207,723
Import	663	272	53	38	63	40	32	25
Export	-2,392	-33,323	-57,745	-89,646	-94,080	-116,424	-122,304	-160,331
Transformation Sector	-	-	-13,959	-18,114	-18,257	-21,510	-20,271	-26,530
Power Generation	-2,252	-10,048	-13,956	-18,110	-18,252	-21,503	-20,233	-26,530
Final Energy Consumption	1,149	2,053	8,499	16,217	22,378	11,294	19,116	20,239
Industry	1,110	1,821	8,486	16,217	22,378	11,294	19,116	20,239
Transport	0	-	-	-	-	-	-	-
Residential	-	-	13	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	39	233	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	38,632	49,852	49,041	44,134	49,601	53,316	52,904	51,040
Indigenous Production	70,733	68,981	48,137	46,073	56,405	54,431	58,008	51,322
Import	6,085	10,660	20,471	15,483	12,839	18,284	15,455	14,808
Export	-38,186	-29,789	-19,567	-17,633	-20,619	-20,376	-20,558	-20,726
Transformation Sector	-	-	-44,642	-43,789	-47,601	-50,975	-49,087	-50,058
Petroleum Refineries	-36,471	-49,298	-44,642	-43,789	-47,601	-50,975	-49,087	-50,058
Petroleum Products								
Primary Energy Supply	-8,202	1,171	13,873	15,292	20,618	18,856	19,923	30,693
Import	3,251	10,471	21,235	21,743	20,618	18,856	23,702	26,315
Export	-11,125	-8,942	-7,363	-6,284	-	-	-5,500	-606
Transformation Sector	-	-	37,089	35,908	34,958	32,783	41,329	33,923
Power Generation	-3,764	-4,501	-9,259	-10,278	-9,692	-8,188	-8,428	-10,003
Petroleum Refineries	38,041	48,490	46,348	46,186	44,650	40,971	52,602	48,155
Final Energy Consumption	24,681	44,061	45,952	51,733	54,276	50,616	63,774	64,519
Industry	6,317	10,948	10,444	7,613	6,288	6,347	7,786	9,971
Transport	11,203	21,432	25,852	26,501	26,001	30,711	36,788	40,134
Residential	-	-	9,656	7,932	7,495	6,665	7,162	6,386
Commerce & Public Services	-	-	-	1,259	1,060	983	3,906	910
Others	7,161	11,681	0	8,428	13,432	5,910	8,133	7,119
Natural Gas								
Primary Energy Supply	16,889	34,048	37,710	32,975	38,731	44,842	45,062	37,018
Indigenous Production	41,040	65,798	68,663	63,537	72,604	77,022	76,638	72,796
Import	-	-	-	-	-	-	-	-
Export	-24,151	-31,750	-30,953	-30,563	-33,873	-32,180	-31,576	-35,778
Transformation Sector	-	-	-11,300	-11,707	-12,689	-15,079	-21,499	-14,416
Power Generation	-249	-10,468	-3,423	-4,793	-5,961	-8,674	-8,773	-8,414
Final Energy Consumption	5,504	8,089	11,093	9,912	12,589	18,688	16,139	16,996
Industry	2,862	4,407	6,523	7,658	9,452	15,509	15,976	16,774
Transport	1	20	5	6	17	8	10	25
Residential	-	-	16	17	18	18	19	16
Commerce & Public Services	-	-	24	35	50	102	135	181
Others	2,641	3,662	4,526	2,197	3,051	3,051	-	-
Electricity								
Power Generation	3,245	10,561	10,952	12,250	12,852	13,074	14,602	15,774
Thermal	1,369	5,351	9,459	10,675	11,146	11,395	12,279	13,894
Hydro	935	862	925	971	991	954	1,518	1,068
Nuclear	-	-	-	-	-	-	-	-
Others	941	4,348	568	604	715	724	805	812
Final Energy Consumption	2,624	9,365	9,205	10,435	11,103	11,584	12,675	13,749
Industry	1,478	5,482	3,651	3,939	4,125	3,974	4,385	4,706
Transport	1	-	-	7	7	10	8	8
Residential	-	-	3,542	4,070	4,316	4,725	5,145	5,600
Commerce & Public Services	-	-	1,655	2,418	2,654	2,875	3,138	3,435
Others	1,145	3,883	357	-	-	-	-	-

Major Economic Indicators of Indonesia

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	178.63	208.94	224.48	230.97	234.24	237.49	240.68	243.80
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	109.15	165.02	207.89	233.24	247.27	258.72	274.82	292.66
Real Term (Billions of 2000 Price and 2000 PPP)	328.45	496.57	625.57	701.86	744.07	778.51	826.97	880.64
Nominal (Billions of Current USD)	114.43	165.02	285.87	432.22	510.23	539.58	709.19	846.34
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	611	790	926	1,010	1,056	1,089	1,142	1,200
Real Term (2000 Price and 2000 PPP)	1,839	2,377	2,787	3,039	3,176	3,278	3,436	3,612
Nominal (Current USD)	641	790	1,273	1,871	2,178	2,272	2,947	3,471
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	210,866	1,389,770	2,774,281	3,950,893	4,948,688	5,606,203	6,446,852	7,422,781
Household Final Consumption Expenditure, etc.	119,802	856,798	1,785,596	2,510,504	2,999,957	3,290,996	3,643,425	4,053,364
General Government Final Consumption Expenditure	18,649	90,780	224,981	329,760	416,867	537,589	581,921	667,440
Gross Fixed Capital Formation	59,758	275,881	655,854	985,627	1,370,717	1,744,357	2,064,994	2,378,269
Stock Change	4,911	33,283	39,975	-1,053	5,822	-7,264	31,581	55,595
Exports of Goods and Services	53,409	569,490	945,122	1,162,974	1,475,119	1,354,409	1,584,674	1,955,357
Imports of Goods and Services	50,046	423,318	830,083	1,003,271	1,422,902	1,197,093	1,476,620	1,850,475
Real GDP & its Components (Billions of 2000 IDR) *1								
Gross Domestic Product	919,241	1,389,770	1,750,815	1,964,327	2,082,456	2,178,850	2,314,459	2,464,676
Household Final Consumption Expenditure, etc.	480,808	856,798	1,043,805	1,130,847	1,191,191	1,249,070	1,308,273	1,369,881
General Government Final Consumption Expenditure	84,219	90,780	134,626	153,310	169,297	195,834	196,398	202,611
Gross Fixed Capital Formation	214,557	275,881	393,501	441,362	493,822	510,086	553,348	602,147
Stock Change	-17,177	33,283	33,508	-243	2,170	-2,065	11,041	21,859
Exports of Goods and Services	301,744	569,490	793,613	942,431	1,032,278	932,249	1,074,569	1,220,428
Imports of Goods and Services	255,995	423,318	639,702	757,566	833,342	708,529	831,418	942,208
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	19.4	15.6	14.5	13.8	13.7	13.6	13.2	12.7
Industry	41.0	45.9	44.1	43.0	42.1	41.7	41.1	40.7
Services, etc.	39.1	38.5	41.4	43.2	44.3	44.8	45.7	46.6
Manufacturing Production Index (2005=100)	49.0	84.1	100.0	103.9	107.0	108.3	113.2	117.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	25.675	65.403	86.996	118.013	139.606	119.646	158.074	200.788
Imports, c.i.f.	21.837	43.595	75.725	93.101	127.538	93.786	135.323	176.201
Balance of Payments (Billions of Current USD) *2								
Trade Balance	5.352	25.042	17.611	34.527	24.542	32.287	31.003	33.825
Current Account	-2.988	7.992	0.278	10.493	0.126	10.629	5.144	1.685
Overall Balance	2.251	3.926	-2.111	12.706	-1.918	12.506	30.284	11.856
Foreign Exchange Rate (IDR/USD) *1	1,842.81	8,421.78	9,704.74	9,141.00	9,698.96	10,389.94	9,090.43	8,770.43
Purchasing Power Parity (IDR/International Dollar) *1	788.60	2,798.73	3,934.26	4,701.47	5,434.60	5,833.04	6,231.32	6,596.99
Price Indices								
GDP Deflator (2000=100) *3	22.9	100.0	158.5	201.1	237.6	257.3	278.5	301.2
Wholesale Price Index (2005=100) *2	16.7	66.1	100.0	130.2	165.3	162.3	170.2	182.8
Consumer Price Index (2005=100) *2	18.4	64.1	100.0	120.4	132.1	138.5	145.6	153.4
Growth Rate (%) *3								
Real GDP	9.00	4.92	5.69	6.35	6.01	4.63	6.22	6.49
Population	1.81	1.45	1.44	1.43	1.42	1.38	1.34	1.30
Price								
Wholesale Price Index	10.0	12.5	16.4	14.7	27.0	-1.8	4.9	7.4
Consumer Price Index	7.8	3.7	10.5	6.4	9.8	4.8	5.1	5.4

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	
2011									
Indigenous Production	650	-	722	-	-	-	-	-	-
Import	106,262	504	178,607	48,198	2,009	19,994	921	1,159	762
Export	-	-483	-	-16,014	-1,268	-8	-2,436	-500	-8,022
International Marine Bunkers	-	-	-	-4,309	-	-	-	-	-67
International Aviation Bunkers	-	-	-	-5,726	-	-	-5,726	-	-
Stock Changes	140	-	13,985	12,091	1,558	1,353	694	1,919	2,323
Total Primary Energy Supply	107,052	22	193,314	34,241	2,299	21,339	-6,547	2,579	-5,004
Transfers	-	-	-463	396	-	396	-	-	-
Total Transformation Sector	-89,703	27,975	-178,574	149,385	41,964	12,681	10,474	15,710	46,195
Main Activity Producer	-44,326	-4,003	-7,554	-11,614	-	-	-	-10	-122
Autoproducers	-8,685	-2,008	-	-8,972	-	-1,405	-	-21	-1,059
Gas Processing	-	-	-	-1,224	-	-	-	-	-
Petroleum Refineries	-	-	-171,020	172,092	41,964	14,087	10,474	15,741	47,376
Coal Transformation	-36,692	33,986	-	-898	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-502	-3,014	-	-11,201	-4	-53	-	-69	-358
Discrepancy	-666	-5,104	-14,276	-8,784	395	-3,035	-339	-2,113	-910
Total Final Energy Consumption	16,181	19,879	-	164,036	44,654	31,328	3,587	16,107	39,923
Industry Sector	16,181	19,315	-	53,639	48	31,328	-	2,176	7,254
Iron and Steel	10,015	18,444	-	1,838	-	-	-	67	313
Chemical & Petrochemical	1,252	60	-	35,577	-	31,243	-	244	533
Non-metallic Minerals	3,989	315	-	1,589	-	-	-	24	367
Other Industries	925	496	-	14,635	48	85	-	1,841	6,041
Transport Sector	-	-	-	76,114	44,606	-	3,587	-	24,586
Domestic Air Transport	-	-	-	3,589	1	-	3,587	-	-
Road	-	-	-	68,710	44,604	-	-	-	23,092
Rail	-	-	-	198	-	-	-	-	198
Inland Waterways	-	-	-	3,618	-	-	-	-	1,296
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	564	-	30,296	-	-	-	13,930	8,083
Residential	-	11	-	16,671	-	-	-	11,042	-
Commerce and Public Services	-	552	-	8,813	-	-	-	1,516	4,678
Agriculture	-	-	-	3,286	-	-	-	1,367	1,907
Non-specified Others	-	-	-	1,527	-	-	-	6	1,498
Non-energy	-	-	-	3,987	-	-	-	-	-
2010									
Indigenous Production	467	-	757	-	-	-	-	-	-
Import	112,205	521	185,869	43,546	865	20,720	150	543	636
Export	-	-533	-	-17,194	-1,786	-	-1,914	-182	-9,896
International Marine Bunkers	-	-	-	-4,857	-	-	-	-	-94
International Aviation Bunkers	-	-	-	-5,389	-	-	-5,389	-	-
Stock Changes	584	-	-1,190	237	-47	-109	-19	256	109
Total Primary Energy Supply	113,257	-12	185,437	16,343	-968	20,610	-7,172	617	-9,245
Transfers	-	-	-524	452	-	452	-	-	-
Total Transformation Sector	-95,371	27,790	-185,029	162,462	45,062	13,949	11,415	15,953	48,865
Main Activity Producer	-48,158	-4,282	-3,523	-7,493	-	-	-	-7	-148
Autoproducers	-8,945	-2,568	-	-9,263	-	-1,562	-	-24	-1,325
Gas Processing	-	-	-	-1,208	-	-	-	-	-
Petroleum Refineries	-	-	-181,505	181,229	45,062	15,510	11,415	15,984	50,337
Coal Transformation	-38,268	34,640	-	-804	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-481	-3,067	-	-11,788	-	-39	-	-40	-286
Discrepancy	-2,417	-3,977	116	3,194	1,749	-2,159	282	302	1,534
Total Final Energy Consumption	14,988	20,734	-	170,661	45,842	32,814	4,525	16,833	40,868
Industry Sector	14,988	20,127	-	57,040	49	32,814	-	3,162	7,485
Iron and Steel	8,734	19,204	-	1,766	-	-	-	67	364
Chemical & Petrochemical	1,243	61	-	37,877	-	32,737	-	276	635
Non-metallic Minerals	4,070	341	-	1,703	-	-	-	28	410
Other Industries	940	520	-	15,694	49	77	-	2,792	6,076
Transport Sector	-	-	-	78,658	45,794	-	4,525	-	24,954
Domestic Air Transport	-	-	-	4,527	2	-	4,525	-	-
Road	-	-	-	70,244	45,792	-	-	-	23,363
Rail	-	-	-	198	-	-	-	-	198
Inland Waterways	-	-	-	3,689	-	-	-	-	1,393
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	607	-	30,690	-	-	-	13,671	8,429
Residential	-	12	-	16,666	-	-	-	10,819	-
Commerce and Public Services	-	595	-	9,153	-	-	-	1,563	4,878
Agriculture	-	-	-	3,282	-	-	-	1,283	1,986
Non-specified Others	-	-	-	1,589	-	-	-	6	1,565
Non-energy	-	-	-	4,273	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,100	7,666	42,459	2,920	8,447	-	-	65,963
5,642	14,350	-	-	3,362	92,188	-	-	-	-	-	-	425,760
-2,899	-122	-	-	-758	-	-	-	-	-	-	-	-16,496
-4,221	-	-	-	-21	-	-	-	-	-	-	-	-4,309
-	-	-	-	-	-	-	-	-	-	-	-	-5,726
1,533	2,377	-	-	333	13	-	-	-	-	-	-	26,230
55	16,605	-	-	2,916	95,301	7,666	42,459	2,920	8,447	-	-	491,421
-	-	0	-	-	-	-	-	-	-	-	-	-67
6,777	2,709	7,038	-	5,835	-62,725	-7,666	-42,459	-2,535	-9,045	95,125	784	-119,438
-10,695	-786	-	-	-	-60,966	-7,072	-42,459	-2,216	-1,288	74,319	784	-106,394
-4,998	-145	-1,207	-	-136	-2,914	-594	-	-319	-7,757	20,806	-	-10,442
-	-1,088	-136	-	-	1,155	-	-	-	-	-	-	-70
22,470	4,729	8,382	-	6,869	-	-	-	-	-	-	-	1,072
-	-	-	-	-898	-	-	-	-	-	-	-	-3,605
-	-	-	-	-	-	-	-	-	-	-	-	-
-1,102	-683	-7,228	-	-1,705	-4,058	-	-	-	-	-11,130	-	-29,905
-437	-2,267	189	-	-265	2,315	-0	-	0	2,935	620	-74	-23,035
5,293	16,364	-	-	6,780	30,833	-	-	385	2,337	84,615	710	318,976
2,937	7,103	-	-	2,793	16,342	-	-	-	2,313	34,728	-	142,518
431	390	-	-	638	1,898	-	-	-	-	6,679	-	38,875
274	2,731	-	-	551	3,511	-	-	-	-	5,318	-	45,718
554	45	-	-	598	813	-	-	-	-	1,699	-	8,405
1,677	3,937	-	-	1,005	10,119	-	-	-	2,313	21,033	-	49,520
2,321	1,013	-	-	-	-	-	-	-	-	1,727	-	77,841
-	-	-	-	-	-	-	-	-	-	-	-	3,589
-	1,013	-	-	-	-	-	-	-	-	-	-	68,710
-	-	-	-	-	-	-	-	-	-	1,727	-	1,925
2,321	-	-	-	-	-	-	-	-	-	-	-	3,618
-	-	-	-	-	-	-	-	-	-	-	-	-
35	8,248	-	-	-	14,491	-	-	385	24	48,160	710	94,630
-	5,629	-	-	-	8,442	-	-	369	24	24,795	31	50,343
-	2,619	-	-	-	6,049	-	-	16	-	23,059	607	39,097
12	-	-	-	-	-	-	-	-	-	306	72	3,663
23	-	-	-	-	-	-	-	-	-	-	-	1,527
-	-	-	-	3,987	-	-	-	-	-	-	-	3,987
-	-	-	-	-	3,159	8,142	76,188	3,371	8,826	-	-	100,910
3,072	14,005	-	-	3,556	82,183	-	-	-	-	-	-	424,324
-2,452	-221	-	-	-744	-	-	-	-	-	-	-	-17,727
-4,740	-	-	-	-23	-	-	-	-	-	-	-	-4,857
-	-	-	-	-	-	-	-	-	-	-	-	-5,389
19	-0	-	-	29	-15	-	-	-	-	-	-	-384
-4,101	13,783	-	-	2,817	85,326	8,142	76,188	3,371	8,826	-	-	496,877
-	-	0	-	-	-	-	-	-	-	-	-	-72
10,133	3,618	7,186	-	6,281	-53,235	-8,142	-76,188	-2,951	-9,320	99,319	815	-139,850
-7,046	-292	-	-	-	-51,287	-7,534	-76,188	-2,280	-1,386	79,793	815	-121,522
-4,743	-93	-1,370	-	-146	-3,086	-608	-	-671	-7,935	19,526	-	-13,549
-	-1,064	-143	-	-	1,138	-	-	-	-	-	-	-70
21,922	5,067	8,699	-	7,231	-	-	-	-	-	-	-	-277
-	-	-	-	-804	-	-	-	-	-	-	-	-4,432
-	-	-	-	-	-	-	-	-	-	-	-	-
-1,171	-956	-7,459	-	-1,838	-3,919	-	-	-	-	-11,687	-	-30,943
483	680	273	-	49	1,958	-	-	-	2,985	408	-77	2,190
5,344	17,125	-	-	7,310	30,129	-	-	420	2,491	88,040	738	328,202
3,018	7,476	-	-	3,037	15,255	-	-	-	2,467	35,891	-	145,768
430	376	-	-	530	1,817	-	-	-	-	6,843	-	38,365
436	3,234	-	-	560	3,412	-	-	-	-	5,455	-	48,049
595	44	-	-	626	814	-	-	-	-	1,719	-	8,648
1,558	3,822	-	-	1,321	9,212	-	-	-	2,467	21,874	-	50,707
2,296	1,090	-	-	-	-	-	-	-	-	1,829	-	80,487
-	-	-	-	-	-	-	-	-	-	-	-	4,527
-	1,090	-	-	-	-	-	-	-	-	-	-	70,244
-	-	-	-	-	-	-	-	-	-	1,829	-	2,027
2,296	-	-	-	-	-	-	-	-	-	-	-	3,689
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
30	8,560	-	-	-	14,874	-	-	420	24	50,320	738	97,674
-	5,848	-	-	-	8,472	-	-	404	24	25,784	31	51,393
-	2,712	-	-	-	6,402	-	-	16	-	24,221	637	41,024
12	-	-	-	-	-	-	-	-	-	316	70	3,668
18	-	-	-	-	-	-	-	-	-	-	-	1,589
-	-	-	-	4,273	-	-	-	-	-	-	-	4,273

Major Energy Indicators of Japan

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	435,446	515,793	523,867	518,502	508,872	465,995	496,877	491,421
Indigenous Production	75,760	107,130	100,174	97,390	89,783	94,826	100,910	65,963
Import	376,441	426,211	442,850	445,398	453,816	396,202	424,324	425,760
Export	-5,030	-5,850	-9,753	-14,761	-19,899	-19,052	-17,727	-16,496
Final Energy Consumption	304,887	360,138	355,595	346,360	335,329	310,890	328,202	318,976
Industry	141,050	160,741	156,076	156,563	151,921	133,440	145,768	142,518
Transport	70,004	87,407	86,882	84,415	80,901	78,899	80,487	77,841
Residential	40,322	50,357	52,964	51,210	50,815	49,272	51,393	50,343
Commerce & Public Services	33,985	44,990	45,809	42,260	41,267	39,987	41,024	39,097
Others	19,527	16,643	13,866	11,912	10,425	9,292	9,529	9,177
Coal, Coal Products								
Primary Energy Supply	75,444	91,814	112,738	114,565	116,994	98,659	113,244	107,074
Indigenous Production	5,933	1,720	567	722	627	654	467	650
Import	70,045	91,754	112,760	115,207	118,120	98,435	112,726	106,767
Export	-1,039	-1,489	-1,099	-1,073	-650	-580	-533	-483
Transformation Sector	-30,434	-50,261	-68,463	-68,932	-70,191	-62,398	-67,581	-61,729
Power Generation	-24,918	-46,595	-64,958	-65,022	-66,327	-58,940	-63,953	-59,022
Final Energy Consumption	39,591	39,747	36,393	37,413	36,848	30,996	35,722	36,060
Industry	38,825	38,843	35,463	36,550	36,160	30,451	35,115	35,496
Transport	-	-	-	-	-	-	-	-
Residential	83	27	19	17	17	14	12	11
Commerce & Public Services	683	877	911	845	671	531	595	552
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	200,318	218,989	214,674	209,668	209,081	185,809	185,437	193,314
Indigenous Production	555	644	794	833	855	798	757	722
Import	200,268	217,624	212,130	206,464	210,089	182,823	185,869	178,607
Export	-	-	-	-	-	-	-	-
Transformation Sector	-195,130	-217,474	-213,869	-208,520	-208,086	-185,184	-185,029	-178,574
Petroleum Refineries	-176,529	-209,924	-207,953	-200,733	-198,647	-181,832	-181,505	-171,020
Petroleum Products								
Primary Energy Supply	48,733	37,465	29,583	20,017	13,199	12,359	16,343	34,241
Import	64,443	54,074	49,890	45,290	44,300	39,166	43,546	48,198
Export	-3,990	-4,361	-8,654	-13,688	-19,249	-18,473	-17,194	-16,014
Transformation Sector	137,816	180,262	179,824	173,008	169,772	161,763	162,462	149,385
Power Generation	-33,298	-24,474	-24,189	-22,933	-24,009	-17,368	-16,756	-20,585
Petroleum Refineries	174,595	208,447	206,407	197,659	195,610	180,795	181,229	172,092
Final Energy Consumption	183,350	211,805	203,937	188,179	176,215	166,807	170,661	164,036
Industry	63,595	74,731	71,062	64,954	60,085	55,297	57,040	53,639
Transport	68,308	85,531	85,031	82,586	79,055	77,097	78,658	76,114
Residential	16,289	18,647	19,939	17,956	16,920	16,053	16,666	16,671
Commerce & Public Services	15,931	16,672	14,451	11,185	10,134	9,437	9,153	8,813
Others	19,228	16,225	13,454	11,498	10,022	8,924	9,143	8,800
Natural Gas								
Primary Energy Supply	43,525	64,918	70,914	81,865	84,779	79,120	85,326	95,301
Indigenous Production	1,847	2,159	2,855	3,448	3,482	3,326	3,159	3,100
Import	41,684	62,759	68,070	78,437	81,307	75,778	82,183	92,188
Export	-	-	-	-	-	-	-	-
Transformation Sector	-29,102	-42,973	-46,327	-52,886	-53,652	-51,127	-53,235	-62,725
Power Generation	-32,528	-45,995	-48,121	-53,983	-54,715	-52,098	-54,373	-63,880
Final Energy Consumption	13,574	21,610	24,805	28,227	29,387	27,497	30,129	30,833
Industry	3,840	8,359	10,140	13,740	14,644	12,997	15,255	16,342
Transport	-	-	-	-	-	-	-	-
Residential	6,646	8,159	8,513	8,402	8,567	8,388	8,472	8,442
Commerce & Public Services	3,088	5,091	6,153	6,086	6,175	6,113	6,402	6,049
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	72,547	93,482	99,064	101,388	101,359	93,972	99,319	95,125
Thermal	43,174	51,000	56,702	59,980	62,648	53,843	55,699	63,848
Hydro	8,224	8,104	7,488	7,313	7,017	6,904	8,142	7,666
Nuclear	17,008	27,776	25,455	24,237	21,868	23,858	25,396	14,153
Others	4,140	6,602	9,419	9,859	9,826	9,366	10,082	9,459
Final Energy Consumption	64,052	82,913	86,589	88,606	89,006	82,289	88,040	84,615
Industry	31,971	36,332	36,936	38,710	38,428	32,604	35,891	34,728
Transport	1,696	1,875	1,851	1,829	1,846	1,802	1,829	1,727
Residential	16,074	22,665	23,882	24,281	24,784	24,326	25,784	24,795
Commerce & Public Services	14,041	21,711	23,595	23,453	23,618	23,263	24,221	23,059
Others	270	328	325	332	329	294	316	306

Major Economic Indicators of Japan

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	123.54	126.87	127.77	127.77	127.70	127.56	127.45	127.82
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	4,229.50	4,731.20	5,020.88	5,217.81	5,163.46	4,878.07	5,105.01	5,075.89
Real Term (Billions of 2000 Price and 2000 PPP)	2,938.48	3,287.03	3,488.29	3,625.11	3,587.35	3,389.08	3,546.74	3,526.51
Nominal (Billions of Current USD)	3,103.70	4,731.20	4,571.87	4,356.35	4,849.18	5,035.14	5,495.39	5,897.02
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	34,237	37,292	39,295	40,837	40,433	38,242	40,055	39,712
Real Term (2000 Price and 2000 PPP)	23,786	25,909	27,301	28,372	28,091	26,569	27,828	27,590
Nominal (Current USD)	25,124	37,292	35,781	34,095	37,972	39,473	43,118	46,136
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	449,392	509,860	503,903	512,975	501,209	471,139	482,384	470,623
Household Final Consumption Expenditure, etc.	239,393	288,167	291,133	294,122	292,055	282,942	285,867	284,784
General Government Final Consumption Expenditure	59,728	86,308	92,468	92,793	93,019	93,820	95,129	96,203
Gross Fixed Capital Formation	143,629	128,515	112,574	115,781	112,462	97,991	96,431	96,872
Stock Change	3,296	-517	635	1,606	2,700	-5,340	-806	-2,953
Exports of Goods and Services	46,234	55,459	72,122	91,037	88,770	59,814	73,183	71,288
Imports of Goods and Services	42,149	48,073	65,028	82,363	87,798	58,088	67,419	75,572
Real GDP & its Components (Billions of 2000 JPY) *1								
Gross Domestic Product	424,479	474,830	503,903	523,667	518,212	489,571	512,346	509,424
Household Final Consumption Expenditure, etc.	240,674	274,377	291,133	297,063	294,314	292,350	300,435	301,810
General Government Final Consumption Expenditure	61,161	82,991	92,468	93,521	93,403	95,525	97,335	98,751
Gross Fixed Capital Formation	126,529	119,223	112,574	114,631	109,923	98,282	98,043	99,129
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	34,651	54,196	72,122	86,184	87,405	66,257	82,399	82,104
Imports of Goods and Services	38,234	54,932	65,028	69,554	69,795	58,829	65,338	69,197
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	1.8	1.5	1.2	1.2	1.3	1.3	1.2	1.2
Industry	33.6	29.7	27.9	28.9	29.1	26.2	28.6	27.9
Services, etc.	64.5	68.5	70.5	69.6	69.3	72.1	69.8	70.4
Industrial Production Index (2005=100) *2	99.1	98.4	100.0	107.3	103.8	81.7	94.3	91.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	287,581	479,249	594,941	714,327	781,412	580,719	769,839	823,184
Imports, c.i.f.	235,368	379,511	515,866	622,243	762,534	551,981	694,059	855,380
Balance of Payments (Billions of Current USD) *2								
Trade Balance	69,283	116,716	106,964	120,601	55,277	58,092	108,524	-4,474
Current Account	44,078	119,660	165,783	211,685	159,363	147,017	203,916	119,064
Overall Balance	-9,085	48,955	22,325	36,524	30,880	26,920	43,854	176,624
Foreign Exchange Rate (JPY/USD) *1	144.79	107.77	110.22	117.75	103.36	93.57	87.78	79.81
Purchasing Power Parity (JPY/International Dollar) *1	189.56	155.11	129.55	120.22	116.85	116.35	112.42	108.81
Price Indices								
GDP Deflator (2005=100) *3	105.9	107.4	100.0	98.0	96.7	96.2	94.2	92.4
Wholesale Price Index (2005=100) *2	110.8	102.4	100.0	104.0	108.7	103.0	102.9	104.4
Consumer Price Index (2005=100) *2	94.1	102.3	100.0	100.3	101.7	100.3	99.6	99.3
Growth Rate (%) *3								
Real GDP	5.57	2.26	1.30	2.19	-1.04	-5.53	4.65	-0.57
Population	0.34	0.17	0.01	0.01	-0.05	-0.11	-0.08	0.29
Price								
Wholesale Price Index	1.5	0.0	1.7	1.7	4.6	-5.3	-0.1	1.5
Consumer Price Index	3.0	-0.7	-0.3	0.1	1.4	-1.3	-0.7	-0.3

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 2011

Currency Exchange Rate

	Local currency / US Dollar	78.98
Currency Exchange Rate		
Local Currency Unit		Yen

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	Yen/ton	18,680	Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	Yen/ton	11,334	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	56,684	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	Yen/ton	73,100	LPG	Yen/kg	138.0	LPG	Yen/m3	7,288
Naphtha	Yen/kL	52,957	Naphtha	Yen/kL	58,088	Naphtha		
Motor Gasoline			Motor Gasoline	Yen/kL	132,183	Motor Gasoline	Yen/L	147
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	Yen/kL	78,059	Other Kerosene	Yen/L	98
Gas/Diesel Oil			Gas/Diesel Oil	Yen/kL	110,404	Gas/Diesel Oil	Yen/L	127
Fuel Oil	Yen/kL	62,351	Fuel Oil	Yen/kL	55,004	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	64,970	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		

3.9 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	
2011									
Indigenous Production	959	-	707	3,228	871	735	-	-	-
Import	79,200	284	127,915	32,960	3	22,883	-	60	355
Export	-	-	-584	-54,304	-6,663	-4,295	-10,888	-1,188	-21,710
International Marine Bunkers	-	-	-	-8,757	-	-	-	-	-878
International Aviation Bunkers	-	-	-	-4,048	-	-	-4,048	-	-
Stock Changes	-164	-8,042	-13	-169	78	22	-51	67	-86
Total Primary Energy Supply	79,995	-7,758	128,025	-31,089	-5,711	19,344	-14,987	-1,061	-22,320
Transfers	-	-	87	-92	-30	-1	122	-299	190
Total Transformation Sector	-74,181	7,038	-126,156	119,027	14,566	14,480	15,839	4,675	40,543
Main Activity Producer	-48,087	-1,327	-	-2,445	-	-	-	-72	-81
Autoproducers	-3,129	-3,038	-	-1,763	-	-1,763	-	-	-
Gas Processing	-	-	-	-640	-	-	-	-	-1
Petroleum Refineries	-	-	-134,662	131,811	14,566	23,683	15,839	4,746	40,626
Coal Transformation	-22,965	11,402	-	-	-	-	-	-	-
Other Transformation	-	-	8,505	-7,936	-	-7,439	-	-	-
Loss & Own Use	-	-2,764	-19	-5,914	-	-	-	-1	-3
Discrepancy	-755	7,861	-1,936	41	-138	6	16	123	206
Total Final Energy Consumption	5,059	4,377	-	81,972	8,686	33,830	991	3,437	18,616
Industry Sector	5,059	3,538	-	6,385	58	-	-	328	1,286
Iron and Steel	1,277	2,925	-	224	-	-	-	2	5
Chemical & Petrochemical	362	-	-	935	-	-	-	-	71
Non-metallic Minerals	3,002	-	-	838	-	-	-	13	95
Other Industries	417	613	-	4,387	58	-	-	313	1,115
Transport Sector	-	-	-	27,864	8,353	-	484	6	14,371
Domestic Air Transport	-	-	-	490	-	-	484	-	5
Road	-	-	-	26,962	8,353	-	-	6	14,050
Rail	-	-	-	168	-	-	-	-	168
Inland Waterways	-	-	-	243	-	-	-	-	149
Pipeline Transport	-	-	-	1	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	838	-	9,602	276	-	507	3,070	2,959
Residential	-	838	-	3,256	13	-	-	1,946	493
Commerce and Public Services	-	-	-	3,098	88	-	19	760	390
Agriculture	-	-	-	1,229	55	-	-	272	833
Non-specified Others	-	-	-	2,020	119	-	488	92	1,242
Non-energy	-	-	-	38,121	-	33,830	-	33	-
2010									
Indigenous Production	959	-	698	2,760	879	797	-	-	-
Import	72,508	440	121,570	33,027	2	22,889	-	43	312
Export	-	-	-481	-45,315	-4,896	-3,898	-9,577	-856	-17,830
International Marine Bunkers	-	-	-	-9,005	-	-	-	-	-935
International Aviation Bunkers	-	-	-	-4,012	-	-	-4,012	-	-
Stock Changes	-438	-	-795	-574	-46	-79	-35	-82	-46
Total Primary Energy Supply	73,029	440	120,992	-23,119	-4,061	19,708	-13,624	-895	-18,498
Transfers	-	-	65	-67	-33	1	24	-71	88
Total Transformation Sector	-68,312	6,839	-118,785	111,471	12,872	12,806	14,497	4,980	37,381
Main Activity Producer	-46,251	-655	-	-3,355	-	-	-	-73	-33
Autoproducers	-2,505	-2,793	-	-1,693	-	-1,693	-	-	-
Gas Processing	-	-	-	-481	-	-	-	-	-
Petroleum Refineries	-	-	-126,123	123,797	12,872	20,808	14,497	5,053	37,413
Coal Transformation	-19,557	10,287	-	-	-	-	-	-	-
Other Transformation	-	-	7,338	-6,797	-	-6,309	-	-	-
Loss & Own Use	-	-2,359	-18	-5,643	-	-	-	-7	-15
Discrepancy	-311	-33	-2,254	-441	-168	247	-68	-97	-65
Total Final Energy Consumption	4,406	4,887	-	82,201	8,610	32,762	829	3,910	18,890
Industry Sector	4,406	4,032	-	5,902	-	-	-	383	1,226
Iron and Steel	878	3,187	-	282	-	-	-	4	5
Chemical & Petrochemical	101	-	-	1,138	-	-	-	-	71
Non-metallic Minerals	2,679	-	-	813	-	-	-	11	89
Other Industries	748	845	-	3,669	-	-	-	368	1,061
Transport Sector	-	-	-	28,738	8,610	-	340	7	14,578
Domestic Air Transport	-	-	-	340	-	-	340	-	-
Road	-	-	-	27,451	8,610	-	-	-	14,068
Rail	-	-	-	184	-	-	-	-	184
Inland Waterways	-	-	-	674	-	-	-	-	244
Pipeline Transport	-	-	-	1	-	-	-	-	1
Non-specified Transport	-	-	-	88	-	-	-	7	80
Other Sector	-	855	-	9,609	-	-	489	3,490	3,086
Residential	-	855	-	2,981	-	-	-	1,704	501
Commerce and Public Services	-	-	-	3,448	-	-	3	1,448	377
Agriculture	-	-	-	1,254	-	-	-	319	850
Non-specified Others	-	-	-	1,925	-	-	486	19	1,358
Non-energy	-	-	-	37,952	-	32,762	-	30	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
68	991	556	-	6	406	673	40,321	228	3,771	-	-	50,293
2,350	7,303	-	-	5	41,911	-	-	-	-	-	-	282,271
-5,264	-89	-	-	-4,207	-	-	-	-	-	-	-	-54,889
-7,879	-	-	-	-	-	-	-	-	-	-	-	-8,757
-	-	-	-	-	-	-	-	-	-	-	-	-4,048
-179	-58	-	-	40	-724	-	-	-	-	-	-	-9,111
-10,903	8,147	556	-	-4,156	41,594	673	40,321	228	3,771	-	-	255,760
134	-101	-	-	-108	-	-	-	-	-	-	-	-6
16,528	663	3,086	-	8,646	-19,530	-673	-40,321	-153	-1,319	45,176	4,860	-86,234
-2,291	-	-	-	-	-19,456	-673	-40,321	-135	-137	42,622	1,707	-68,252
-	-	-	-	-	-579	-	-	-18	-985	2,553	3,153	-3,805
-	-639	-	-	-	506	-	-	-	-	-	-	-135
18,820	1,799	3,086	-	8,646	-	-	-	-	-	-	-	-2,851
-	-	-	-	-	-	-	-	-	-	-	-	-11,562
-	-497	-	-	-	-	-	-	-	-198	-	-	372
-1,632	-69	-3,642	-	-566	-505	-	-	-	-	-4,659	-138	-14,000
-538	416	-0	-	-49	18	-	-	-0	-24	-43	-225	4,936
3,590	9,055	-	-	3,767	21,577	-	-	75	2,428	40,473	4,497	160,457
2,683	721	-	-	1,309	8,277	-	-	2	1,673	21,160	2,432	48,525
141	74	-	-	2	1,560	-	-	-	5	4,589	4	10,585
864	-	-	-	-	2,419	-	-	-	47	3,829	1,519	9,112
556	26	-	-	149	472	-	-	-	713	1,028	0	6,054
1,122	621	-	-	1,159	3,826	-	-	2	907	11,713	908	22,774
104	4,540	-	-	6	1,074	-	-	-	-	193	-	29,131
1	-	-	-	-	-	-	-	-	-	-	-	490
7	4,540	-	-	6	1,074	-	-	-	-	-	-	28,036
-	-	-	-	-	-	-	-	-	-	193	-	361
95	-	-	-	-	-	-	-	-	-	-	-	243
1	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-
803	1,922	-	-	66	12,226	-	-	74	755	19,120	2,065	44,680
176	590	-	-	38	8,906	-	-	20	52	5,320	1,804	20,197
507	1,307	-	-	27	3,316	-	-	48	680	12,890	261	20,293
66	2	-	-	-	4	-	-	5	23	723	-	1,984
54	23	-	-	1	-	-	-	-	-	186	-	2,206
-	1,872	-	-	2,387	-	-	-	-	-	-	-	38,121
-	545	540	-	-	484	557	38,724	199	3,340	-	-	47,722
2,672	7,101	-	-	7	39,256	-	-	-	18	-	-	266,821
-3,956	-90	-	-	-4,213	-	-	-	-	-	-	-	-45,797
-8,070	-	-	-	-	-	-	-	-	-	-	-	-9,005
-	-	-	-	-	-	-	-	-	-	-	-	-4,012
-79	-257	-	-	51	-1,142	-	-	-	-	-	-	-2,949
-9,433	7,298	540	-	-4,155	38,599	557	38,724	199	3,358	-	-	252,779
-12	-36	-	-	-28	-	-	-	-	-	-	-	-2
16,085	2,463	2,753	-	7,636	-17,640	-557	-38,724	-137	-1,117	42,958	4,580	-79,424
-3,250	-	-	-	-	-17,570	-557	-38,724	-129	-115	40,508	1,658	-65,189
-	-	-	-	-	-435	-	-	-8	-792	2,449	2,922	-2,855
-	-481	-	-	-	365	-	-	-	-	-	-	-115
19,335	3,387	2,753	-	7,680	-	-	-	-	-	-	-	-2,326
-	-	-	-	-	-	-	-	-	-	-	-	-9,270
-	-443	-	-	-44	-	-	-	-	-210	-	-	331
-2,246	-31	-3,292	-	-52	-489	-	-	-	-12	-4,295	-135	-12,951
-43	-177	-	-	-70	115	-	-	-0	84	-19	-113	-2,973
4,351	9,518	-	-	3,332	20,584	-	-	63	2,313	38,644	4,332	157,430
3,347	811	-	-	135	7,090	-	-	1	1,729	19,618	2,338	45,117
208	65	-	-	-	1,600	-	-	-	7	4,237	1	10,192
1,066	-	-	-	-	1,714	-	-	-	88	3,514	1,459	8,013
544	34	-	-	135	451	-	-	-	706	1,011	0	5,660
1,528	712	-	-	-	3,325	-	-	1	928	10,856	878	21,252
429	4,774	-	-	-	1,023	-	-	-	-	188	-	29,949
-	-	-	-	-	-	-	-	-	-	-	-	340
-	4,774	-	-	-	1,023	-	-	-	-	-	-	28,474
-	-	-	-	-	-	-	-	-	-	188	-	373
429	-	-	-	-	-	-	-	-	-	-	-	674
-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	88
575	1,969	-	-	-	12,471	-	-	61	584	18,837	1,994	44,411
156	621	-	-	-	8,941	-	-	21	34	5,271	1,759	19,862
301	1,318	-	-	-	3,526	-	-	40	550	12,703	235	20,502
82	3	-	-	-	4	-	-	-	-	688	-	1,947
36	26	-	-	-	-	-	-	-	-	175	-	2,101
-	1,964	-	-	3,197	-	-	-	-	-	-	-	37,952

Major Energy Indicators of Republic of Korea

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	93,088	188,905	212,585	224,265	229,946	232,125	252,779	255,760
Indigenous Production	22,622	35,193	45,103	44,543	47,439	47,139	47,722	50,293
Import	73,943	206,674	211,301	229,660	240,077	242,433	266,821	282,271
Export	-3,795	-40,939	-35,741	-39,344	-44,955	-44,330	-45,797	-54,889
Final Energy Consumption	64,908	127,112	140,459	146,833	146,359	147,438	157,430	160,457
Industry	19,262	38,474	39,065	41,710	42,423	39,930	45,117	48,525
Transport	14,573	26,266	29,187	30,222	28,853	29,302	29,949	29,131
Residential	12,942	15,036	18,411	18,453	18,796	18,641	19,862	20,197
Commerce & Public Services	8,693	17,211	19,227	18,356	18,495	19,212	20,502	20,313
Others	9,438	30,125	34,570	38,092	37,792	40,352	42,000	42,291
Coal, Coal Products								
Primary Energy Supply	25,558	41,942	49,787	56,335	63,050	64,962	73,469	72,237
Indigenous Production	7,576	3,638	1,261	1,328	1,276	1,159	959	959
Import	15,725	39,137	46,929	54,503	61,507	62,923	72,949	79,484
Export	-	-	-	-	-	-	-	-
Transformation Sector	-13,163	-31,590	-41,502	-46,279	-51,809	-56,086	-61,473	-67,143
Power Generation	-5,955	-24,844	-33,117	-38,199	-42,963	-47,934	-52,203	-55,581
Final Energy Consumption	11,717	9,071	7,747	8,677	9,431	7,772	9,293	9,435
Industry	3,052	8,505	6,794	7,676	8,378	6,879	8,438	8,597
Transport	-	-	-	-	-	-	-	-
Residential	8,638	566	954	1,001	1,053	893	855	838
Commerce & Public Services	27	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	43,239	126,493	118,805	122,073	120,052	115,006	120,992	128,025
Indigenous Production	-	670	534	581	536	692	698	707
Import	42,672	125,809	117,338	120,849	118,857	117,637	121,570	127,915
Export	-	-99	-3	-27	-243	-325	-481	-584
Transformation Sector	-42,521	-123,376	-118,549	-120,640	-118,320	-114,641	-118,785	-126,156
Petroleum Refineries	-42,521	-128,552	-124,568	-128,412	-126,049	-122,646	-126,123	-134,662
Petroleum Products								
Primary Energy Supply	6,495	-26,843	-24,309	-25,761	-27,849	-21,691	-23,119	-31,089
Import	12,841	24,629	20,897	24,364	26,340	31,641	33,027	32,960
Export	-3,795	-40,840	-35,738	-39,317	-44,712	-44,005	-45,315	-54,304
Transformation Sector	39,028	112,577	110,492	111,896	111,906	107,471	111,471	119,027
Power Generation	-4,512	-8,044	-7,109	-7,035	-4,332	-5,020	-5,048	-4,208
Petroleum Refineries	43,540	125,628	123,436	126,438	123,787	120,283	123,797	131,811
Final Energy Consumption	43,661	79,877	79,650	80,904	77,935	79,941	82,201	81,972
Industry	10,883	10,974	7,972	7,301	6,463	5,831	5,902	6,385
Transport	14,486	26,091	28,639	29,435	27,946	28,220	28,738	27,864
Residential	1,916	3,878	3,181	3,105	3,150	2,932	2,981	3,256
Commerce & Public Services	7,064	9,277	5,915	3,644	3,310	3,396	3,448	3,117
Others	9,313	29,658	33,943	37,418	37,065	39,562	41,132	41,350
Natural Gas								
Primary Energy Supply	2,725	17,011	27,415	31,131	31,818	31,713	38,599	41,594
Indigenous Production	-	-	441	317	195	449	484	406
Import	2,681	17,071	26,112	29,915	33,347	30,212	39,256	41,911
Export	-	-	-	-	-	-	-	-
Transformation Sector	-2,037	-5,757	-11,076	-14,318	-14,088	-12,170	-17,640	-19,530
Power Generation	-2,037	-5,757	-11,076	-14,390	-14,289	-12,394	-18,006	-20,036
Final Energy Consumption	674	10,928	15,986	16,812	17,582	18,122	20,584	21,577
Industry	73	2,882	4,168	4,710	5,472	5,632	7,090	8,277
Transport	-	-	323	576	715	895	1,023	1,074
Residential	465	6,229	8,374	8,227	8,237	8,267	8,941	8,906
Commerce & Public Services	136	1,806	3,097	3,296	3,153	3,324	3,526	3,316
Others	-	11	24	4	5	4	4	4
Electricity								
Power Generation	9,062	24,951	33,488	36,749	38,393	39,087	42,958	45,176
Thermal	3,921	14,880	19,932	23,323	24,123	24,989	28,450	29,787
Hydro	547	482	446	434	478	485	557	673
Nuclear	4,594	9,465	12,750	12,416	13,113	12,836	12,908	13,440
Others	0	123	359	577	678	777	1,043	1,274
Final Energy Consumption	8,117	22,628	30,756	33,642	34,365	34,890	38,644	40,473
Industry	4,970	12,934	15,820	17,245	17,225	17,142	19,618	21,160
Transport	87	175	224	211	191	187	188	193
Residential	1,525	3,191	4,375	4,661	4,836	4,961	5,271	5,320
Commerce & Public Services	1,409	5,873	9,734	10,854	11,393	11,814	12,703	12,890
Others	125	456	603	670	721	786	864	909

Major Economic Indicators of Republic of Korea

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	42.87	47.01	48.14	48.60	48.95	49.18	49.41	49.78
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	295.60	533.39	664.39	734.48	751.36	753.76	801.40	830.91
Real Term (Billions of 2000 Price and 2000 PPP)	448.02	808.40	1,006.96	1,113.19	1,138.77	1,142.41	1,214.61	1,259.34
Nominal (Billions of Current USD)	263.78	533.39	844.87	1,049.24	931.41	834.06	1,014.89	1,114.47
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	6,895	11,347	13,802	15,113	15,350	15,326	16,219	16,692
Real Term (2000 Price and 2000 PPP)	10,451	17,197	20,918	22,906	23,264	23,228	24,582	25,299
Nominal (Current USD)	6,153	11,347	17,551	21,590	19,028	16,959	20,540	22,388
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	186,691	603,236	865,241	975,013	1,026,452	1,065,037	1,173,275	1,235,161
Household Final Consumption Expenditure, etc.	94,968	330,390	465,431	530,264	546,734	560,041	600,036	636,547
General Government Final Consumption Expenditure	22,054	72,101	120,010	143,262	156,944	170,325	178,396	190,486
Gross Fixed Capital Formation	69,234	180,748	249,690	278,168	300,794	309,714	331,734	339,417
Stock Change	801	3,616	7,176	8,750	19,575	-29,856	14,696	24,923
Exports of Goods and Services	52,187	232,633	339,757	408,754	544,111	529,645	613,368	694,766
Imports of Goods and Services	54,195	215,398	316,378	394,026	556,198	490,188	583,157	669,746
Real GDP & its Components (Billions of 2000 KRW) *1								
Gross Domestic Product	384,963	694,628	865,241	956,515	978,499	981,625	1,043,666	1,082,096
Household Final Consumption Expenditure, etc.	230,340	387,035	465,431	512,095	505,603	505,018	527,239	538,870
General Government Final Consumption Expenditure	61,477	96,290	120,010	134,807	140,634	148,472	152,811	155,966
Gross Fixed Capital Formation	136,791	214,018	249,690	269,080	263,848	261,234	276,369	273,221
Stock Change	-5,653	5,959	7,176	8,649	13,159	-17,102	-2,924	4,059
Exports of Goods and Services	50,066	212,433	339,757	426,071	454,249	448,814	514,701	563,688
Imports of Goods and Services	77,615	217,624	316,378	393,207	410,568	377,796	442,976	471,720
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	5.4	3.6	3.0	2.9	2.9	3.0	2.7	2.6
Industry	30.5	31.6	33.8	34.6	34.5	34.1	35.6	36.0
Services, etc.	55.8	54.2	52.9	52.5	52.7	53.1	51.9	51.4
Industrial Production Index (2005=100) *2	31.8	74.3	100.0	115.9	119.8	119.7	139.2	147.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	65.016	172.267	284.419	371.489	422.007	363.534	466.384	555.214
Imports, c.i.f.	69.844	160.481	261.238	356.846	435.275	323.085	425.212	524.413
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-2.167	18.735	32.857	37.129	5.170	37.866	40.083	31.660
Current Account	-1.390	14.803	18.607	21.770	3.197	32.791	29.394	26.068
Overall Balance	-1.208	23.790	19.864	15.109	-56.447	68.652	27.048	14.024
Foreign Exchange Rate (KRW/USD) *1	707.76	1,130.96	1,024.12	929.26	1,102.05	1,276.93	1,156.06	1,108.29
Purchasing Power Parity (KRW/International Dollar) *1	547.08	746.21	788.92	768.65	785.72	811.66	829.90	833.03
Price Indices								
GDP Deflator (2005=100) *3	48.5	86.8	100.0	101.9	104.9	108.5	112.4	114.1
Producer Price Index (2005=100)*2	64.8	91.0	100.0	102.4	111.1	110.9	115.1	122.8
Consumer Price Index (2005=100) *2	51.7	84.9	100.0	104.8	109.7	112.8	116.1	120.7
Growth Rate (%) *3								
Real GDP	9.16	8.49	3.96	5.11	2.30	0.32	6.32	3.68
Population	1.15	0.84	0.21	0.47	0.72	0.48	0.46	0.75
Price								
Producer Price Index	4.2	2.0	2.1	1.4	8.5	-0.2	3.8	6.7
Consumer Price Index	8.6	2.3	2.8	2.5	4.7	2.8	3.0	4.0

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 2011

Currency Exchange Rate

	Local currency / US Dollar	1151.8
Currency Exchange Rate		
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	250.2	Coking Coal			Coking Coal		
Anthracite	USD/ton	201.2	Anthracite			Anthracite		
Other bituminous coal	USD/ton	112.1	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	108.0	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD/bbl	72.5	LPG			LPG	KRW/kg	2,034.0
Naphtha	USD/bbl	103.7	Naphtha			Naphtha		
Motor Gasoline	USD/bbl	118.3	Motor Gasoline			Motor Gasoline (ULG 95)	KRW/litre	1,929.3
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	USD/bbl	126.0	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene	USD/bbl	130.4	Other Kerosene			Other Kerosene	KRW/litre	1,321.2
Gas/Diesel Oil	USD/bbl	125.5	Gas/Diesel Oil			Gas/Diesel Oil (HSD)	KRW/litre	1,745.7
Fuel Oil	USD/bbl	102.4	Fuel Oil			Fuel Oil (1500)	KRW/litre	987.2
White Spirit SBP	USD/bbl	150.9	White Spirit SBP			White Spirit SBP	KRW/litre	827.3
Lubricants	USD/bbl	165.1	Lubricants			Lubricants		
Bitumen	USD/bbl	87.4	Bitumen			Bitumen	KRW/litre	723.0
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke	USD/bbl	40.1	Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas			Natural Gas	KRW/m3	815.8
Liquefied Natural Gas	USD/ton	650.4	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		
						Fuel Wood		
						Charcoal		
						Paddy Husk		
						Bagasse		
						Agricultural waste		

3.10 Malaysia

Energy Balance Table of Malaysia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2011									
Indigenous Production	1,570	-	28,306	3,005	-	-	-	32	74
Import	11,786	-	9,314	11,568	4,166	-	495	145	3,764
Export	-120	-	-11,912	-9,403	-	-	-682	-690	-4,447
International Marine Bunkers	-	-	-	-202	-	-	-	-	-14
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	78	-	-1,687	136	13	-	-824	5	1,541
Total Primary Energy Supply	13,314	-	24,022	5,105	4,179	-	-1,011	-508	918
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-11,119	-	-24,688	21,639	3,596	-	3,454	412	7,818
Main Activity Producer	-11,119	-	-	-2,079	-	-	-	-	-976
Autoproducers	-	-	-	-125	-	-	-	-	-125
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-24,688	23,842	3,596	-	3,454	412	8,919
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-3,384	-	-	-	-	-
Discrepancy	-692	-	666	544	374	-	108	105	-27
Total Final Energy Consumption	1,503	-	-	23,903	8,149	-	2,551	9	8,708
Industry Sector	1,503	-	-	1,937	134	-	-	8	1,316
Iron and Steel	150	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	1,353	-	-	-	-	-	-	-	-
Other Industries	-	-	-	1,937	134	-	-	8	1,316
Transport Sector	-	-	-	15,002	8,014	-	2,551	-	4,399
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	8,014	8,014	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	6,988	-	-	2,551	-	4,399
Other Sector	-	-	-	4,494	-	-	-	1	2,992
Residential	-	-	-	688	-	-	-	1	-
Commerce and Public Services	-	-	-	2,862	-	-	-	-	2,077
Agriculture	-	-	-	943	-	-	-	-	916
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	2,470	-	-	-	-	-
2010									
Indigenous Production	1,293	-	35,341	-	-	-	-	-	-
Import	11,188	-	7,985	10,351	4,311	-	401	151	3,232
Export	-53	-	-17,247	-8,416	-10	-	-727	-439	-2,491
International Marine Bunkers	-	-	-	-59	-	-	-	-	-32
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	68	-	-336	441	1,109	-	-216	-1	-89
Total Primary Energy Supply	12,496	-	25,743	2,317	5,409	-	-542	-289	619
Transfers	-	-	-3,200	3,200	-	-	-	43	98
Total Transformation Sector	-11,084	-	-22,645	20,441	3,870	-	2,888	475	7,747
Main Activity Producer	-11,084	-	-	-540	-	-	-	-	-415
Autoproducers	-	-	-	-201	-	-	-	-	-201
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-22,645	21,182	3,870	-	2,888	475	8,364
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-1,681	-	-	-	-	-
Discrepancy	151	-	102	107	274	-	31	-209	-83
Total Final Energy Consumption	1,563	-	-	24,383	9,554	-	2,378	19	8,382
Industry Sector	1,563	-	-	2,795	84	-	-	6	2,055
Iron and Steel	47	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	1,516	-	-	-	-	-	-	-	-
Other Industries	-	-	-	2,795	84	-	-	6	2,055
Transport Sector	-	-	-	16,551	9,470	-	2,378	-	4,691
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	9,470	9,470	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	7,081	-	-	2,378	-	4,691
Other Sector	-	-	-	3,003	-	-	-	13	1,635
Residential	-	-	-	712	-	-	-	13	-
Commerce and Public Services	-	-	-	1,244	-	-	-	-	597
Agriculture	-	-	-	1,048	-	-	-	-	1,038
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	2,034	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	2,646	-	-	252	48,075	656	-	-	111	-	-	81,723
1,469	536	-	-	993	5,977	-	-	-	-	32	-	38,677
-340	-991	-	-	-2,253	-25,233	-	-	-	-32	-1	-	-46,701
-187	-	-	-	-	-	-	-	-	-	-	-	-202
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1	-	-	-599	-	-	-	-	-63	-	-	-1,536
942	2,193	-	-	-1,608	28,819	656	-	-	15	31	-	71,962
-	-	-	-	-	-	-	-	-	-	-	-	-
-531	665	1,657	-	4,569	-20,515	-656	-	-	-	11,072	-	-24,268
-1,102	-	-	-	-	-9,383	-656	-	-	-	10,630	-	-12,606
-	-	-	-	-	-1,453	-	-	-	-	442	-	-1,136
-	-	-	-	-	-6,184	-	-	-	-	-	-	-6,184
571	665	1,657	-	4,569	-	-	-	-	-	-	-	-846
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-3,496	-	-	-	-	-	-	-3,496
-18	-	-1,622	-	-1,745	-957	-	-	-	-	-1,211	-	-5,552
20	39	-36	-	-39	-0	-	-	-	-	-656	-	-138
412	2,897	-	-	1,177	7,347	-	-	-	15	9,235	-	42,003
251	227	-	-	-	3,683	-	-	-	-	4,058	-	11,181
-	-	-	-	-	-	-	-	-	-	-	-	150
-	-	-	-	-	-	-	-	-	-	-	-	1,353
251	227	-	-	-	3,683	-	-	-	-	4,058	-	9,678
38	-	-	-	-	233	-	-	-	-	18	-	15,253
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	233	-	-	-	-	-	-	8,247
-	-	-	-	-	-	-	-	-	-	18	-	18
-	-	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	6,988
124	1,377	-	-	-	34	-	-	-	15	5,159	-	9,703
-	687	-	-	-	6	-	-	-	-	1,969	-	2,663
96	690	-	-	-	28	-	-	-	-	3,164	-	6,055
28	-	-	-	-	-	-	-	-	-	26	-	969
-	-	-	-	-	-	-	-	-	15	-	-	15
-	1,292	-	-	1,177	3,398	-	-	-	-	-	-	5,867
-	-	-	-	-	47,936	540	-	0	-	-	-	85,110
1,187	460	-	-	608	4,730	-	-	-	-	-	-	34,254
-945	-728	-	-	-3,075	-24,162	-	-	-	-	-13	-	-49,891
-23	-	-	-	-4	-	-	-	-	-	-	-	-59
-	-	-	-	-	-	-	-	-	-	-	-	-
-33	-289	-	-	-40	-	-	-	-	-	-	-	172
187	-557	-	-	-2,511	28,504	540	-	0	-	-13	-	69,587
-	2,748	-	-	312	-	-	-	-	-	-	-	0
201	696	209	-	4,353	-22,550	-540	-	-0	-	9,786	-	-26,592
-125	-	-	-	-	-14,559	-540	-	-	-	9,399	-	-17,324
-	-	-	-	-	-883	-	-	-0	-	387	-	-697
-	-	-	-	-	-2,423	-	-	-	-	-	-	-2,423
326	696	209	-	4,353	-	-	-	-	-	-	-	-1,463
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-4,685	-	-	-	-	-	-	-4,685
-16	-	-209	-	-1,457	-	-	-	-	-	-796	-	-2,477
104	30	-	-	-41	-599	-	-	-	-	12	-	-227
477	2,917	-	-	657	5,355	-	-	-	-	8,989	-	40,290
418	232	-	-	-	2,269	-	-	-	-	3,992	-	10,619
-	-	-	-	-	-	-	-	-	-	-	-	47
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	1,516
418	232	-	-	-	2,269	-	-	-	-	3,992	-	9,056
12	-	-	-	-	211	-	-	-	-	18	-	16,780
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	211	-	-	-	-	-	-	9,681
-	-	-	-	-	-	-	-	-	-	18	-	18
-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	7,081
47	1,309	-	-	-	1,453	-	-	-	-	4,979	-	9,435
-	698	-	-	-	5	-	-	-	-	1,936	-	2,652
37	610	-	-	-	26	-	-	-	-	3,019	-	4,289
10	-	-	-	-	-	-	-	-	-	24	-	1,072
-	-	-	-	-	1,422	-	-	-	-	-	-	1,422
-	1,377	-	-	657	1,422	-	-	-	-	-	-	3,456

Major Energy Indicators of Malaysia

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	20,972	51,492	61,261	63,814	77,842	65,996	69,587	71,962
Indigenous Production	46,529	79,473	91,500	88,576	96,211	84,469	85,110	81,723
Import	9,708	16,271	23,687	30,167	28,701	24,095	34,254	38,677
Export	-35,090	-43,637	-54,323	-54,236	-46,337	-42,772	-49,891	-46,701
Final Energy Consumption	13,146	29,697	37,536	42,133	44,354	38,244	40,290	42,003
Industry	5,276	11,401	14,960	16,210	18,667	13,419	12,041	11,181
Transport	5,386	12,070	15,319	14,783	16,378	16,066	16,780	15,253
Residential	-	-	2,181	2,420	2,680	1,807	2,652	2,663
Commerce & Public Services	-	-	2,948	3,784	3,520	3,159	4,289	6,055
Others	2,484	6,226	2,128	4,936	3,109	3,792	4,528	6,852
Coal, Coal Products								
Primary Energy Supply	1,355	2,308	6,620	7,570	8,114	9,030	12,496	13,314
Indigenous Production	70	242	408	492	676	1,171	1,293	1,570
Import	1,424	1,943	6,277	7,203	8,310	7,797	11,188	11,786
Export	-28	-19	-42	-233	-176	-102	-53	-120
Transformation Sector	-	-	-5,260	-6,400	-6,894	-7,698	-11,084	-11,119
Power Generation	-813	-1,495	-5,260	-6,400	-6,894	-7,698	-11,084	-11,119
Final Energy Consumption	513	991	1,280	1,163	1,464	1,378	1,563	1,503
Industry	513	991	1,280	1,163	1,464	1,378	1,563	1,503
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	10,024	24,137	28,655	28,983	31,588	28,222	25,743	24,022
Indigenous Production	30,629	33,835	38,603	36,565	37,872	34,771	35,341	28,306
Import	2,244	7,709	8,242	9,597	8,565	5,787	7,985	9,314
Export	-22,949	-17,254	-19,073	-17,023	-14,994	-12,378	-17,247	-11,912
Transformation Sector	-	-	-24,551	-26,667	-26,740	-26,363	-22,645	-24,688
Petroleum Refineries	-9,980	-22,164	-24,551	-26,667	-26,740	-26,505	-22,645	-24,688
Petroleum Products								
Primary Energy Supply	2,454	-1,922	-926	-1,968	-2,329	-1,645	2,317	5,105
Import	6,031	6,619	7,954	8,445	7,370	6,180	10,351	11,568
Export	-3,413	-8,533	-8,417	-9,768	-9,517	-7,825	-8,416	-9,403
Transformation Sector	-	-	20,774	23,840	25,917	17,547	20,441	21,639
Power Generation	-2,989	-966	-575	-596	-542	-681	-741	-2,203
Petroleum Refineries	10,414	20,954	21,349	25,280	26,459	18,228	21,182	23,842
Final Energy Consumption	9,825	19,581	22,995	23,898	24,433	22,757	24,383	23,903
Industry	3,481	5,278	5,496	6,059	5,262	4,433	2,795	1,937
Transport	5,386	12,059	15,228	14,646	16,175	15,853	16,551	15,002
Residential	-	-	782	818	1,007	14	712	688
Commerce & Public Services	-	-	755	1,264	893	394	1,244	2,862
Others	958	2,244	733	1,111	1,097	2,062	3,082	3,413
Natural Gas								
Primary Energy Supply	6,801	26,370	26,414	28,866	39,869	29,603	28,504	28,819
Indigenous Production	15,487	44,797	51,992	50,961	57,022	47,588	47,936	48,075
Import	-	-	1,213	4,922	4,447	4,329	4,730	5,977
Export	-8,686	-17,831	-26,791	-27,016	-21,600	-22,314	-24,162	-25,233
Transformation Sector	-	-	-19,189	-18,930	-27,982	-19,175	-22,550	-20,515
Power Generation	-1,361	-12,110	-11,948	-12,330	-14,304	-12,653	-15,441	-10,836
Final Energy Consumption	1,093	3,862	6,322	9,392	10,474	5,826	5,355	7,347
Industry	452	2,327	4,815	5,403	8,257	3,891	3,691	3,683
Transport	-	7	86	133	189	202	211	233
Residential	-	-	5	5	6	2	5	6
Commerce & Public Services	-	-	21	25	30	22	26	28
Others	641	1,528	1,395	3,825	1,993	1,709	1,422	3,398
Electricity								
Power Generation	1,979	5,952	7,508	8,714	9,563	9,211	9,786	11,072
Thermal	1,636	5,353	7,011	8,156	8,922	8,414	9,246	10,416
Hydro	343	599	497	558	642	574	540	656
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	223	0	-
Final Energy Consumption	1,715	5,263	6,940	7,680	7,983	8,283	8,989	9,235
Industry	830	2,805	3,369	3,585	3,685	3,717	3,992	4,058
Transport	-	4	5	3	15	11	18	18
Residential	-	-	1,394	1,597	1,667	1,791	1,936	1,969
Commerce & Public Services	-	-	2,171	2,494	2,597	2,743	3,019	3,164
Others	885	2,454	-	-	19	21	24	26

Major Economic Indicators of Malaysia

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	18.21	23.42	25.84	26.81	27.30	27.79	28.28	28.76
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	47.21	93.79	118.22	132.69	139.10	136.99	146.80	154.26
Real Term (Billions of 2000 Price and 2000 PPP)	111.05	220.64	278.12	312.14	327.23	322.27	345.33	362.89
Nominal (Billions of Current USD)	44.02	93.79	143.53	193.55	230.81	202.26	246.82	287.93
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	2,592	4,005	4,575	4,949	5,095	4,930	5,192	5,364
Real Term (2000 Price and 2000 PPP)	6,098	9,421	10,762	11,641	11,985	11,597	12,213	12,618
Nominal (Current USD)	2,417	4,005	5,554	7,218	8,454	7,278	8,729	10,012
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	119.08	356.40	543.58	665.34	769.95	712.86	795.04	881.08
Household Final Consumption Expenditure, etc.	61.69	155.94	240.19	300.42	344.22	348.17	377.63	418.47
General Government Final Consumption Expenditure	16.43	36.23	62.37	76.96	88.58	93.02	96.95	114.75
Gross Fixed Capital Formation	39.35	90.14	121.24	149.06	158.38	156.66	176.90	195.00
Stock Change	-0.81	5.62	0.51	6.69	6.84	-29.52	7.13	12.80
Exports of Goods and Services	88.76	427.00	613.69	706.38	766.10	651.67	745.31	806.70
Imports of Goods and Services	86.24	358.53	494.41	574.17	594.16	507.14	608.89	666.65
Real GDP & its Components (Billions of 1987 MYR) *1								
Gross Domestic Product	217.05	431.23	543.58	610.09	639.57	629.89	674.95	709.26
Household Final Consumption Expenditure, etc.	100.53	173.21	240.19	282.81	307.47	309.17	329.43	352.92
General Government Final Consumption Expenditure	23.05	38.69	62.37	70.15	74.97	78.68	80.94	93.98
Gross Fixed Capital Formation	60.60	110.09	121.24	142.18	145.53	141.58	156.35	166.49
Stock Change	0.19	-0.92	0.51	1.98	1.20	-8.68	8.16	3.24
Exports of Goods and Services	147.43	472.79	613.69	679.41	690.10	615.02	684.80	713.50
Imports of Goods and Services	126.16	372.53	494.41	566.44	579.69	505.89	584.73	620.86
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	16.2	8.9	8.3	7.9	7.8	7.9	7.6	7.7
Industry	45.9	48.6	46.4	44.5	42.6	40.3	40.6	39.5
Services, etc.	37.9	42.5	45.4	47.6	49.6	51.7	51.8	52.9
Industrial Production Index (2005=100) *2	31.6	78.4	100.0	107.3	108.1	99.9	107.1	108.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	29.452	98.229	140.980	176.211	199.516	157.433	198.612	228.086
Imports, c.i.f.	29.258	81.963	114.625	146.982	156.896	123.832	164.622	187.473
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.525	20.827	32.982	38.113	50.831	40.731	42.301	49.549
Current Account	-0.870	8.488	19.980	29.770	38.914	31.801	26.998	33.508
Overall Balance	1.951	-1.009	3.620	13.144	-3.450	3.918	0.109	-30.615
Foreign Exchange Rate (MYR/USD) *1	2.7049	3.8000	3.7871	3.4376	3.3358	3.5245	3.2211	3.0600
Purchasing Power Parity (MYR/International Dollar) *1	1.3172	1.6153	1.7339	1.7802	1.9227	1.7917	1.8402	1.9003
Price Indices								
GDP Deflator (2005=100) *3	54.9	82.6	100.0	109.1	120.4	113.2	117.8	124.2
Producer Price Index (2005=100) *2	61.2	83.8	100.0	112.6	124.0	115.0	121.4	132.3
Consumer Price Index (2005=100) *2	64.7	91.7	100.0	105.7	111.5	112.1	114.0	117.7
Growth Rate (%) *3								
Real GDP	9.01	8.86	5.33	6.30	4.83	-1.51	7.15	5.08
Population	2.85	2.29	1.89	1.85	1.82	1.79	1.75	1.71
Price								
Producer Price Index	0.9	3.1	6.9	5.5	10.2	-7.3	5.6	9.0
Consumer Price Index	2.6	1.5	3.0	2.0	5.4	0.6	1.7	3.2

Source *1 : "World Development Indicators", World Bank

*2 : "International Financial Statistics", International Monetary Fund

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

Note

: N.A. means "not available"

: MYR means Malaysian Ringgit, USD means United States Dollar

: PPP means Purchasing Power Parity

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	
2011									
Indigenous Production	7,789	-	159,058	-	-	-	-	-	-
Import	4,352	213	367	31,924	17,611	1,067	44	-	6,810
Export	-6	-	-78,607	-9,013	-	-3,128	-85	-	-240
International Marine Bunkers	-	-	-	-925	-	-	-	-	-829
International Aviation Bunkers	-	-	-	-2,741	-13	-	-2,728	-	-
Stock Changes	-2,364	31	-517	366	250	-	35	-	155
Total Primary Energy Supply	9,771	244	80,300	19,611	17,849	-2,060	-2,735	-	5,895
Transfers	-	-	-7,290	8,358	-	-1,067	-	30	-
Total Transformation Sector	-10,159	1,234	-71,948	53,286	17,896	3,688	2,736	-	17,560
Main Activity Producer	-8,106	-	-	-9,926	-	-	-	-	-384
Autoproducers	-38	-126	-	-1,263	-	-	-	-	-135
Gas Processing	-	-	-	-770	-	-	-	-	-
Petroleum Refineries	-	-	-73,744	66,839	17,896	3,914	2,736	-	18,079
Coal Transformation	-2,014	1,360	-	-	-	-	-	-	-
Other Transformation	-	-	1,796	-1,593	-	-227	-	-	-
Loss & Own Use	-	-80	-	-6,725	-407	-	-	-	-893
Discrepancy	467	245	-1,062	-587	429	-0	-1	-	-2,943
Total Final Energy Consumption	79	1,643	-	73,944	35,767	560	-	30	19,619
Industry Sector	79	1,643	-	5,913	-	-	-	-	1,529
Iron and Steel	-	1,643	-	188	-	-	-	-	32
Chemical & Petrochemical	-	-	-	294	-	-	-	-	106
Non-metallic Minerals	79	-	-	2,660	-	-	-	-	12
Other Industries	-	-	-	2,772	-	-	-	-	1,380
Transport Sector	-	-	-	51,945	35,767	-	-	-	15,224
Domestic Air Transport	-	-	-	10	10	-	-	-	-
Road	-	-	-	50,502	35,757	-	-	-	13,848
Rail	-	-	-	617	-	-	-	-	617
Inland Waterways	-	-	-	817	-	-	-	-	759
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	10,893	-	-	-	30	2,866
Residential	-	-	-	6,515	-	-	-	29	-
Commerce and Public Services	-	-	-	1,502	-	-	-	-	118
Agriculture	-	-	-	2,876	-	-	-	1	2,748
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	5,192	-	560	-	-	-
2010									
Indigenous Production	6,324	-	160,623	-	-	-	-	-	-
Import	4,402	248	399	29,993	16,595	1,276	193	-	6,015
Export	-4	-1	-80,005	-9,667	-	-2,816	-64	-	-69
International Marine Bunkers	-	-	-	-811	-	-	-	-	-711
International Aviation Bunkers	-	-	-	-2,727	-25	-	-2,703	-	-
Stock Changes	-1,414	-53	-131	-163	107	-	-13	-	-191
Total Primary Energy Supply	9,309	194	80,886	16,624	16,677	-1,540	-2,587	-	5,044
Transfers	-	-	-10,933	12,099	2,832	-	-216	28	-
Total Transformation Sector	-9,648	1,286	-73,827	56,407	18,866	3,275	2,520	-	17,649
Main Activity Producer	-7,709	-	-	-8,753	-	-	-	-	-311
Autoproducers	-41	-132	-	-1,319	-	-	-	-	-133
Gas Processing	-	-	-	-817	-	-	-	-	-
Petroleum Refineries	-	-	-73,827	67,297	18,866	3,275	2,520	-	18,093
Coal Transformation	-1,897	1,418	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-84	-	-6,279	-378	-	-	-	-973
Discrepancy	440	286	3,874	-4,993	-2,108	-1,277	282	-0	-2,624
Total Final Energy Consumption	102	1,682	-	73,858	35,890	458	-	28	19,095
Industry Sector	102	1,682	-	5,842	-	-	-	-	1,415
Iron and Steel	-	1,652	-	212	-	-	-	-	33
Chemical & Petrochemical	-	-	-	305	-	-	-	-	109
Non-metallic Minerals	102	-	-	2,541	-	-	-	-	11
Other Industries	-	29	-	2,785	-	-	-	-	1,263
Transport Sector	-	-	-	51,732	35,890	-	-	-	14,915
Domestic Air Transport	-	-	-	21	21	-	-	-	-
Road	-	-	-	50,419	35,869	-	-	-	13,695
Rail	-	-	-	582	-	-	-	-	582
Inland Waterways	-	-	-	709	-	-	-	-	638
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	10,875	-	-	-	28	2,766
Residential	-	-	-	6,585	-	-	-	27	-
Commerce and Public Services	-	-	-	1,506	-	-	-	-	113
Agriculture	-	-	-	2,784	-	-	-	1	2,653
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	5,410	-	458	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	41,800	3,119	2,629	5,880	8,268	-	-	228,543
1,366	3,040	-	-	1,986	14,872	-	-	-	-	51	-	51,780
-5,508	-52	-	-	-	-209	-	-	-	-	-100	-	-87,936
-95	-	-	-	-1	-	-	-	-	-	-	-	-925
-	-	-	-	-	-	-	-	-	-	-	-	-2,741
-140	60	-	-	6	-226	-	-	-	-	-	-	-2,711
-4,377	3,048	-	-	1,990	56,237	3,119	2,629	5,880	8,268	-49	-	186,010
-	6,439	-	2,956	-	-	-	-	-	-	-	-	1,068
5,645	-11	3,692	-	2,081	-26,397	-3,119	-2,629	-5,740	-1,079	25,615	-	-40,936
-9,542	-	-	-	-	-23,812	-3,078	-2,629	-5,626	-	23,080	-	-30,099
-236	-	-	-	-892	-3,251	-40	-	-114	-1,079	2,535	-	-3,377
-	-770	-	-	-	666	-	-	-	-	-	-	-104
16,790	759	3,692	-	2,973	-	-	-	-	-	-	-	-6,905
-	-	-	-	-	-	-	-	-	-	-	-	-655
-1,366	-	-	-	-	-	-	-	-	-	-	-	203
-1,635	-	-3,692	-	-97	-16,079	-	-	-	-	-6,159	-	-29,044
1,490	381	-	-	57	-110	0	-	-	-	23	-	-1,025
1,123	9,857	-	2,956	4,031	13,651	-	-	140	7,189	19,429	-	116,073
1,066	946	-	-	2,373	9,896	-	-	6	995	10,671	-	29,203
106	-	-	-	51	1,797	-	-	-	-	520	-	4,148
133	20	-	-	35	1,002	-	-	-	-	800	-	2,095
432	3	-	-	2,212	900	-	-	-	-	660	-	4,298
396	922	-	-	75	6,198	-	-	6	995	8,691	-	18,662
58	897	-	-	-	13	-	-	-	-	96	-	52,055
-	-	-	-	-	-	-	-	-	-	-	-	10
-	897	-	-	-	13	-	-	-	-	-	-	50,515
-	-	-	-	-	-	-	-	-	-	96	-	713
58	-	-	-	-	-	-	-	-	-	-	-	817
-	-	-	-	-	-	-	-	-	-	-	-	-
-	7,996	-	-	-	937	-	-	134	6,193	8,662	-	26,819
-	6,486	-	-	-	716	-	-	80	6,193	4,515	-	18,020
-	1,384	-	-	-	221	-	-	54	-	1,959	-	3,736
-	127	-	-	-	-	-	-	-	-	959	-	3,835
-	-	-	-	-	-	-	-	-	-	1,229	-	1,229
-	18	-	2,956	1,658	2,805	-	-	-	-	-	-	7,997
-	-	-	-	-	41,911	3,192	1,532	5,918	8,362	-	-	227,863
601	3,116	-	-	2,197	12,439	-	-	-	-	34	-	47,514
-6,677	-3	-	-	-37	-736	-	-	-	-	-116	-	-90,528
-99	-	-	-	-1	-	-	-	-	-	-	-	-811
-	-	-	-	-	-	-	-	-	-	-	-	-2,727
-36	-11	-	-	-18	-329	-	-	-	-	-	-	-2,089
-6,212	3,101	-	-	2,141	53,285	3,192	1,532	5,918	8,362	-82	-	179,222
-	6,525	-	2,930	-	-	-	-	-	-	-	-	1,166
8,891	87	3,195	-	1,924	-24,674	-3,192	-1,532	-5,801	-1,133	23,310	-	-38,804
-8,442	-	-	-	-	-22,491	-3,160	-1,532	-5,706	-	20,858	-	-28,493
-265	-	-	-	-921	-2,819	-33	-	-95	-1,133	2,452	-	-3,120
-	-817	-	-	-	636	-	-	-	-	-	-	-181
17,599	904	3,195	-	2,845	-	-	-	-	-	-	-	-6,530
-	-	-	-	-	-	-	-	-	-	-	-	-480
-	-	-	-	-	-	-	-	-	-	-	-	-
-1,528	-116	-3,195	-	-90	-15,856	-	-	-	-	-5,386	-	-27,606
212	372	-	-	149	-8	-0	-	-	-	41	-	-361
1,364	9,968	-	2,930	4,124	12,746	-	-	117	7,229	17,883	-	113,617
1,293	1,009	-	-	2,125	9,016	-	-	5	1,024	9,901	-	27,572
133	-	-	-	47	1,936	-	-	-	-	622	-	4,423
140	16	-	-	40	2,076	-	-	-	-	788	-	3,168
521	2	-	-	2,006	1,032	-	-	-	-	573	-	4,247
499	991	-	-	32	3,972	-	-	5	1,024	7,918	-	15,734
71	856	-	-	-	12	-	-	-	-	102	-	51,846
-	-	-	-	-	-	-	-	-	-	-	-	21
-	856	-	-	-	12	-	-	-	-	-	-	50,431
-	-	-	-	-	-	-	-	-	-	102	-	684
71	-	-	-	-	-	-	-	-	-	-	-	709
-	-	-	-	-	-	-	-	-	-	-	-	-
-	8,081	-	-	-	966	-	-	112	6,205	7,880	-	26,037
-	6,558	-	-	-	737	-	-	67	6,205	4,249	-	17,843
-	1,393	-	-	-	229	-	-	45	-	1,794	-	3,574
-	130	-	-	-	-	-	-	-	-	740	-	3,523
-	-	-	-	-	-	-	-	-	-	1,097	-	1,097
-	23	-	2,930	2,000	2,752	-	-	-	-	-	-	8,162

Major Energy Indicators of Mexico

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	122,501	145,352	170,286	176,739	182,385	175,790	179,222	186,010
Indigenous Production	194,661	222,311	253,442	244,152	233,613	220,294	227,863	228,543
Import	5,648	25,515	31,696	37,900	42,212	39,559	47,514	51,780
Export	-75,521	-96,860	-110,939	-100,536	-88,648	-81,056	-90,528	-87,936
Final Energy Consumption	84,321	98,287	105,310	113,491	115,071	110,225	113,617	116,073
Industry	26,576	27,920	27,001	28,925	28,007	25,960	27,572	29,203
Transport	28,530	36,159	44,463	49,604	51,823	50,474	51,846	52,055
Residential	15,749	18,092	17,684	17,853	17,869	17,690	17,843	18,020
Commerce & Public Services	1,481	3,429	3,424	3,563	3,556	3,561	3,574	3,736
Others	11,985	12,687	12,738	13,547	13,817	12,540	12,782	13,060
Coal, Coal Products								
Primary Energy Supply	3,467	7,106	10,141	9,873	8,498	8,858	9,504	10,015
Indigenous Production	3,387	5,415	5,159	6,000	5,734	5,314	6,324	7,789
Import	235	1,960	4,815	3,625	3,158	3,812	4,650	4,565
Export	-6	-4	-4	-6	-7	-4	-4	-6
Transformation Sector	-1,659	-5,379	-8,281	-7,830	-5,985	-7,733	-8,362	-8,925
Power Generation	-1,725	-4,734	-7,974	-7,634	-5,321	-7,159	-7,882	-8,270
Final Energy Consumption	1,759	1,495	1,400	1,395	1,393	1,207	1,783	1,721
Industry	1,759	1,495	1,400	1,395	1,393	1,207	1,783	1,721
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	82,018	78,348	92,069	86,569	87,932	87,896	80,886	80,300
Indigenous Production	152,756	171,117	197,237	179,593	168,925	157,147	160,623	159,058
Import	-	352	382	557	471	502	399	367
Export	-70,432	-92,202	-105,474	-93,348	-80,803	-70,207	-80,005	-78,607
Transformation Sector	-69,255	-65,955	-79,762	-74,799	-76,894	-76,517	-73,827	-71,948
Petroleum Refineries	-69,255	-65,955	-79,762	-74,799	-76,894	-76,517	-73,827	-73,744
Petroleum Products								
Primary Energy Supply	-1,753	11,842	9,661	13,782	16,242	11,158	16,624	19,611
Import	4,994	20,703	18,807	24,346	26,993	24,439	29,993	31,924
Export	-4,915	-4,431	-5,139	-5,829	-6,820	-10,151	-9,667	-9,013
Transformation Sector	50,097	40,962	54,042	56,190	56,835	59,951	56,407	53,286
Power Generation	-15,119	-22,978	-16,062	-12,423	-11,070	-10,608	-10,073	-11,190
Petroleum Refineries	65,215	65,086	71,200	69,629	68,799	71,419	67,297	66,839
Final Energy Consumption	51,210	61,663	68,880	74,827	76,019	72,502	73,858	73,944
Industry	7,445	7,479	7,286	7,861	6,934	6,183	5,842	5,913
Transport	28,461	36,058	44,353	49,495	51,714	50,365	51,732	51,945
Residential	6,573	7,635	6,881	6,818	6,717	6,450	6,585	6,515
Commerce & Public Services	540	1,732	1,535	1,569	1,501	1,453	1,506	1,502
Others	8,191	8,758	8,824	9,084	9,153	8,051	8,193	8,068
Natural Gas								
Primary Energy Supply	23,127	28,929	38,077	46,366	49,005	48,530	53,285	56,237
Indigenous Production	22,757	26,727	30,604	38,309	38,150	38,407	41,911	41,800
Import	370	2,408	7,684	9,349	11,559	10,777	12,439	14,872
Export	-	-207	-211	-1,227	-893	-588	-736	-209
Transformation Sector	-3,432	-7,830	-16,294	-21,655	-22,938	-23,121	-24,674	-26,397
Power Generation	-3,432	-8,683	-17,092	-22,394	-23,582	-23,734	-25,310	-27,064
Final Energy Consumption	14,166	12,952	11,101	12,533	12,507	11,805	12,746	13,651
Industry	10,828	9,007	7,939	8,827	8,637	8,247	9,016	9,896
Transport	-	6	16	16	14	13	12	13
Residential	811	520	735	745	737	690	737	716
Commerce & Public Services	-	170	174	204	213	205	229	221
Others	2,527	3,250	2,237	2,741	2,905	2,649	2,752	2,805
Electricity								
Power Generation	9,962	17,559	20,969	22,127	22,525	22,450	23,310	25,615
Thermal	7,247	12,729	15,888	17,090	16,638	17,478	17,796	19,836
Hydro	2,019	2,849	2,379	2,346	3,369	2,297	3,192	3,119
Nuclear	255	714	939	905	852	912	511	876
Others	441	1,266	1,763	1,786	1,666	1,762	1,812	1,783
Final Energy Consumption	8,617	13,950	16,095	17,065	17,400	17,297	17,883	19,429
Industry	4,592	8,559	8,985	9,559	9,675	9,288	9,901	10,671
Transport	69	95	94	94	96	96	102	96
Residential	1,754	3,107	3,658	3,942	4,081	4,232	4,249	4,515
Commerce & Public Services	935	1,511	1,682	1,748	1,790	1,841	1,794	1,959
Others	1,267	679	1,677	1,722	1,759	1,839	1,837	2,188

Major Economic Indicators of Mexico

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	86.08	103.87	110.73	113.53	114.97	116.42	117.89	119.36
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	413.33	581.43	637.06	691.71	699.94	658.27	693.03	719.98
Real Term (Billions of 2000 Price and 2000 PPP)	640.77	901.38	987.62	1,072.34	1,085.11	1,020.50	1,074.40	1,116.16
Nominal (Billions of Current USD)	262.71	581.43	848.95	1,035.93	1,094.48	883.36	1,034.47	1,158.77
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	4,802	5,597	5,753	6,093	6,088	5,654	5,879	6,032
Real Term (2000 Price and 2000 PPP)	7,444	8,678	8,919	9,445	9,438	8,765	9,114	9,351
Nominal (Current USD)	3,052	5,597	7,667	9,125	9,520	7,588	8,775	9,708
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	738.90	5,497.74	9,251.74	11,320.84	12,181.26	11,937.25	13,071.60	14,395.83
Household Final Consumption Expenditure, etc.	514.12	3,682.55	6,142.08	7,316.01	7,864.59	7,852.45	8,563.78	9,224.25
General Government Final Consumption Expenditure	61.95	612.62	996.66	1,179.01	1,307.01	1,425.96	1,544.78	1,708.01
Gross Fixed Capital Formation	132.11	1,174.30	1,849.84	2,392.88	2,696.45	2,539.28	2,701.20	3,026.72
Stock Change	38.88	137.90	345.04	498.79	585.20	294.86	441.69	574.48
Exports of Goods and Services	137.44	1,700.95	2,507.35	3,161.64	3,416.59	3,295.52	3,963.22	4,541.96
Imports of Goods and Services	145.60	1,810.58	2,641.66	3,340.55	3,688.58	3,470.82	4,124.96	4,733.10
Real GDP & its Components (Billions of 1993 MXN) *1								
Gross Domestic Product	5,264.47	7,405.55	8,114.09	8,810.14	8,915.03	8,384.23	8,827.02	9,170.19
Household Final Consumption Expenditure, etc.	3,074.12	4,783.16	5,580.85	6,126.88	6,238.75	5,789.23	6,079.31	6,352.15
General Government Final Consumption Expenditure	726.14	907.62	899.45	936.16	945.81	976.19	999.72	1,005.82
Gross Fixed Capital Formation	884.23	1,520.51	1,645.21	1,951.63	2,066.02	1,815.90	1,929.38	2,100.31
Stock Change	178.86	446.47	138.63	42.57	-6.45	-65.25	-28.97	-124.34
Exports of Goods and Services	543.86	1,907.59	2,280.31	2,675.09	2,687.21	2,324.15	2,827.52	3,017.81
Imports of Goods and Services	572.45	2,016.13	2,434.00	2,933.98	3,016.31	2,455.99	2,958.87	3,157.66
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.4	3.6	3.6	3.5	3.5	3.6	3.5	3.3
Industry	31.3	33.0	30.9	30.7	30.3	29.8	30.1	30.1
Services, etc.	59.0	58.6	60.3	60.5	60.9	61.4	61.2	61.4
Industrial Production Index (2005=100) *2	67.2	99.7	100.0	107.9	107.7	99.5	105.5	109.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	40.711	166.367	214.207	271.821	291.265	229.712	298.305	349.569
Imports, c.i.f.	43.548	179.464	228.240	290.246	318.304	241.515	310.205	361.068
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.881	-8.538	-7.663	-10.311	-17.615	-4.926	-2.884	-1.171
Current Account	-7.451	-18.767	-5.573	-12.984	-18.739	-5.781	-1.962	-9.684
Overall Balance	2.218	7.126	9.696	10.795	8.360	4.821	20.795	29.585
Foreign Exchange Rate (MXN/USD) *1	2.8126	9.4556	10.8979	10.9282	11.1297	13.5135	12.6360	12.4233
Purchasing Power Parity (MXN/International Dollar) *1	1.4368	6.0993	7.1269	7.3700	7.4695	7.4089	7.6042	7.5320
Price Indices								
GDP Deflator (2003=100) *3	14.0	74.2	114.0	128.5	136.6	142.4	148.1	157.0
Wholesale Price Index (2005=100) *2	15.4	75.0	100.0	110.6	118.8	123.5	129.0	136.8
Consumer Price Index (2005=100) *2	14.6	78.6	100.0	107.7	113.3	119.3	124.2	128.5
Growth Rate (%)								
Real GDP *3	5.07	6.60	3.21	3.26	1.19	-5.95	5.28	3.89
Population *3	2.08	1.52	1.23	1.26	1.27	1.27	1.26	1.25
Price *2								
Wholesale Price Index	21.7	7.8	3.6	4.3	7.4	3.9	4.5	6.0
Consumer Price Index	26.7	9.5	4.0	4.0	5.1	5.3	4.2	3.4

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

3.12 New Zealand

Energy Balance Table of New Zealand

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products				
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene
2011								
Indigenous Production	2,894	-	2,386	-	-	-	-	-
Import	91	-	5,401	1,892	1,024	-	15	706
Export	-1,535	-	-2,371	-296	-	-	-13	-
International Marine Bunkers	-1	-	-	-316	-3	-	-	-46
International Aviation Bunkers	-	-	-	-785	-	-	-785	-
Stock Changes	-13	-	155	-112	25	-	-12	-101
Total Primary Energy Supply	1,436	-	5,572	384	1,045	-	-795	560
Transfers	-	-	-162	167	1	-	-15	-4
Total Transformation Sector	-794	84	-5,567	5,607	1,419	-	1,114	2
Main Activity Producer	-375	-	-	-	-	-	-	-
Autoproducers	-7	-157	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,573	5,607	1,419	-	1,114	2
Coal Transformation	-412	241	-	-	-	-	-	-
Other Transformation	-	-	6	-	-	-	-	-
Loss & Own Use	-5	-49	-	-364	-	-	-	-
Discrepancy	-116	0	158	10	-27	-	34	30
Total Final Energy Consumption	521	35	-	5,804	2,438	-	338	4
Industry Sector	411	35	-	331	2	-	-	254
Iron and Steel	-	35	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-
Non-metallic Minerals	53	-	-	-	-	-	-	-
Other Industries	358	-	-	331	2	-	-	254
Transport Sector	1	-	-	4,571	2,402	-	338	1,791
Domestic Air Transport	-	-	-	350	12	-	338	-
Road	-	-	-	4,085	2,391	-	-	1,684
Rail	-	-	-	45	-	-	-	45
Inland Waterways	-	-	-	92	-	-	-	62
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	1	-	-	-	-	-	-	-
Other Sector	108	-	-	625	34	-	-	499
Residential	17	-	-	72	-	-	-	8
Commerce and Public Services	29	-	-	141	2	-	-	113
Agriculture	62	-	-	319	32	-	-	285
Non-specified Others	-	-	-	93	-	-	-	93
Non-energy	-	-	-	277	-	-	-	-
2010								
Indigenous Production	3,137	-	2,745	-	-	-	-	-
Import	133	-	5,233	1,771	985	-	50	580
Export	-1,708	-	-2,453	-122	-36	-	-	-
International Marine Bunkers	-	-	-	-335	-2	-	-	-40
International Aviation Bunkers	-	-	-	-778	-	-	-778	-
Stock Changes	-250	-	-47	90	-6	-	9	78
Total Primary Energy Supply	1,312	-	5,478	626	941	-	-720	619
Transfers	-	-	-163	167	-	-	-19	-16
Total Transformation Sector	-738	97	-5,360	5,374	1,467	-	1,052	2
Main Activity Producer	-315	-	-	-	-	-	-	-
Autoproducers	-7	-180	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,364	5,374	1,467	-	1,052	2
Coal Transformation	-416	278	-	-	-	-	-	-
Other Transformation	-	-	4	-	-	-	-	-
Loss & Own Use	-4	-57	-	-353	-	-	-	-
Discrepancy	-6	-0	45	32	85	-	4	-73
Total Final Energy Consumption	564	41	-	5,846	2,493	-	318	4
Industry Sector	474	41	-	347	2	-	-	260
Iron and Steel	-	41	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-
Non-metallic Minerals	80	-	-	-	-	-	-	-
Other Industries	395	-	-	347	2	-	-	260
Transport Sector	1	-	-	4,561	2,458	-	318	1,753
Domestic Air Transport	-	-	-	330	12	-	318	-
Road	-	-	-	4,105	2,446	-	-	1,644
Rail	-	-	-	46	-	-	-	46
Inland Waterways	-	-	-	80	-	-	-	63
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	1	-	-	-	-	-	-	-
Other Sector	88	-	-	579	33	-	-	461
Residential	12	-	-	69	-	-	-	7
Commerce and Public Services	33	-	-	128	1	-	-	103
Agriculture	43	-	-	287	31	-	-	256
Non-specified Others	-	-	-	96	1	-	-	95
Non-energy	-	-	-	358	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,482	2,157	-	5,611	1,202	-	-	17,732
-	8	-	-	139	-	-	-	-	1	-	-	7,385
-265	-18	-	-	-	-	-	-	-	-	-	-	-4,201
-267	-	-	-	-	-	-	-	-	-	-	-	-316
-	-	-	-	-	-	-	-	-	-	-	-	-785
-23	8	-	-	-8	-70	-	-	-	-	-	-	-39
-555	-2	-	-	131	3,411	2,157	-	5,611	1,204	-	-	19,774
-	169	-	-	16	-	-	-	-	-	-	-	5
604	-	338	-	172	-1,509	-2,157	-	-5,381	-160	4,000	36	-5,841
-	-	-	-	-	-1,480	-2,156	-	-5,381	-36	3,889	-	-5,539
-	-	-	-	-	-29	-1	-	-	-119	111	36	-165
-	-	-	-	-	-	-	-	-	-	-	-	-
604	-	338	-	172	-	-	-	-	-	-	-	34
-	-	-	-	-	-	-	-	-	-	-	-	-171
-	-	-	-	-	-	-	-	-	-5	-	-	1
-	-	-338	-	-26	-240	-338	-	-	-	-600	-	-1,258
-5	-9	-	-	-15	42	0	-	0	0	-78	-36	-22
45	157	-	-	277	1,704	-	-	231	1,043	3,321	-	12,659
15	57	-	-	-	901	-	-	148	899	1,207	-	3,932
-	-	-	-	-	60	-	-	-	-	129	-	225
-	-	-	-	-	338	-	-	-	-	34	-	372
-	-	-	-	-	16	-	-	-	-	23	-	92
15	57	-	-	-	487	-	-	148	899	1,021	-	3,244
30	10	-	-	-	1	-	-	-	-	5	-	4,578
-	-	-	-	-	-	-	-	-	-	-	-	350
-	10	-	-	-	1	-	-	-	-	-	-	4,086
-	-	-	-	-	-	-	-	-	-	-	-	45
30	-	-	-	-	-	-	-	-	-	-	-	92
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	5	-	6
-	90	-	-	-	278	-	-	82	144	2,109	-	3,348
-	64	-	-	-	123	-	-	16	138	1,107	-	1,473
-	25	-	-	-	119	-	-	50	6	781	-	1,127
-	1	-	-	-	36	-	-	16	-	154	-	587
-	-	-	-	-	-	-	-	-	-	68	-	160
-	-	-	-	277	525	-	-	-	-	-	-	802
-	-	-	-	-	3,855	2,126	-	5,388	1,190	-	-	18,441
-	9	-	-	146	-	-	-	-	1	-	-	7,137
-70	-16	-	-	-	-	-	-	-	-	-	-	-4,284
-293	-	-	-	-	-	-	-	-	-	-	-	-335
-	-	-	-	-	-	-	-	-	-	-	-	-778
7	-3	-	-	6	-127	-	-	-	-	-	-	-334
-356	-10	-	-	152	3,728	2,126	-	5,388	1,191	-	-	19,849
-	170	-	-	33	-	-	-	-	-	-	-	4
387	-	309	-	212	-1,762	-2,126	-	-5,153	-159	3,860	35	-5,932
-	-	-	-	-	-1,727	-2,125	-	-5,153	-36	3,740	-	-5,617
-	-	-	-	-	-35	-1	-	-	-119	120	35	-187
-	-	-	-	-	-	-	-	-	-	-	-	-
387	-	309	-	212	-	-	-	-	-	-	-	10
-	-	-	-	-	-	-	-	-	-	-	-	-139
-	-	-	-	-	-	-	-	-	-3	-	-	0
-	-	-309	-	-44	-215	-	-	-	-	-434	-	-1,062
7	1	-	-	6	-18	-0	-	-0	0	-62	-35	-45
38	161	-	-	358	1,733	-	-	235	1,032	3,363	-	12,814
20	60	-	-	-	876	-	-	146	885	1,209	-	3,979
-	-	-	-	-	61	-	-	-	-	129	-	230
-	-	-	-	-	365	-	-	-	-	34	-	399
-	-	-	-	-	18	-	-	-	-	22	-	120
20	60	-	-	-	433	-	-	146	885	1,024	-	3,230
17	15	-	-	-	1	-	-	-	-	5	-	4,568
-	-	-	-	-	-	-	-	-	-	-	-	330
-	15	-	-	-	1	-	-	-	-	-	-	4,106
-	-	-	-	-	-	-	-	-	-	-	-	46
17	-	-	-	-	-	-	-	-	-	-	-	80
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	5	-	6
-	85	-	-	-	308	-	-	89	147	2,149	-	3,361
-	62	-	-	-	128	-	-	16	141	1,134	-	1,500
-	24	-	-	-	148	-	-	56	6	793	-	1,164
-	-	-	-	-	32	-	-	17	-	155	-	534
-	-	-	-	-	-	-	-	-	-	67	-	163
-	-	-	-	358	548	-	-	-	-	-	-	907

Major Energy Indicators of New Zealand

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	14,035	17,741	17,707	18,168	18,620	18,844	19,849	19,774
Indigenous Production	12,688	14,970	13,716	15,153	16,175	16,674	18,441	17,732
Import	3,812	5,942	7,404	7,567	7,567	7,475	7,137	7,385
Export	-1,696	-2,590	-2,486	-3,232	-4,644	-4,058	-4,284	-4,201
Final Energy Consumption	9,715	12,936	12,532	12,698	12,678	12,457	12,814	12,659
Industry	3,597	4,260	4,079	4,052	3,947	3,699	3,979	3,932
Transport	2,957	4,063	4,539	4,636	4,664	4,572	4,568	4,578
Residential	1,209	1,355	1,433	1,441	1,439	1,513	1,500	1,473
Commerce & Public Services	800	932	1,130	1,163	1,166	1,132	1,164	1,127
Others	1,151	2,326	1,351	1,406	1,462	1,542	1,604	1,550
Coal, Coal Products								
Primary Energy Supply	1,185	1,107	2,194	1,674	1,956	1,474	1,312	1,436
Indigenous Production	1,423	2,074	3,164	2,832	2,837	2,654	3,137	2,894
Import	1	11	562	383	314	356	133	91
Export	-239	-1,116	-1,667	-1,445	-1,781	-1,478	-1,708	-1,535
Transformation Sector	-313	-487	-1,533	-896	-1,260	-925	-641	-710
Power Generation	-170	-384	-1,406	-771	-1,146	-794	-502	-538
Final Energy Consumption	675	516	575	664	692	548	604	556
Industry	542	434	483	569	590	480	515	446
Transport	2	2	2	2	1	0	1	1
Residential	87	25	20	12	8	19	12	17
Commerce & Public Services	35	43	43	48	53	29	33	29
Others	9	13	27	33	40	19	43	62
Crude Oil								
Primary Energy Supply	5,015	5,430	5,214	5,018	5,302	5,240	5,478	5,572
Indigenous Production	2,608	1,944	1,084	2,086	2,933	2,771	2,745	2,386
Import	3,293	4,724	4,829	4,698	4,967	4,895	5,233	5,401
Export	-965	-1,263	-636	-1,664	-2,653	-2,370	-2,453	-2,371
Transformation Sector	-4,879	-5,204	-5,171	-4,936	-5,319	-5,218	-5,360	-5,567
Petroleum Refineries	-4,879	-5,204	-5,171	-4,936	-5,322	-5,220	-5,364	-5,573
Petroleum Products								
Primary Energy Supply	-739	249	830	1,241	956	968	626	384
Import	519	1,208	2,013	2,486	2,284	2,224	1,771	1,892
Export	-492	-211	-183	-123	-210	-210	-122	-296
Transformation Sector	4,969	5,266	5,425	5,066	5,351	5,253	5,374	5,607
Power Generation	-6	-	-1	-	-32	-2	-	-
Petroleum Refineries	4,975	5,266	5,426	5,079	5,382	5,255	5,374	5,607
Final Energy Consumption	4,026	5,306	5,963	6,057	6,084	5,817	5,846	5,804
Industry	285	337	426	461	475	392	347	331
Transport	2,894	4,056	4,532	4,628	4,657	4,565	4,561	4,571
Residential	12	49	67	76	64	63	69	72
Commerce & Public Services	168	119	150	122	113	97	128	141
Others	667	745	788	770	775	700	741	689
Natural Gas								
Primary Energy Supply	3,873	5,059	3,228	3,644	3,439	3,507	3,728	3,411
Indigenous Production	3,872	5,056	3,228	3,645	3,440	3,595	3,855	3,482
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-1,990	-1,898	-1,725	-2,106	-1,810	-1,531	-1,762	-1,509
Power Generation	-1,240	-1,898	-1,725	-2,106	-1,810	-1,531	-1,762	-1,509
Final Energy Consumption	1,797	3,011	1,333	1,309	1,372	1,666	1,733	1,704
Industry	1,228	1,338	703	677	687	783	876	901
Transport	57	-	-	1	1	1	1	1
Residential	75	156	142	122	118	137	128	123
Commerce & Public Services	95	136	167	141	140	157	148	119
Others	343	1,381	322	369	427	589	580	561
Electricity								
Power Generation	2,775	3,375	3,695	3,763	3,770	3,737	3,860	4,000
Thermal	470	864	1,245	1,207	1,260	962	937	998
Hydro	1,994	2,101	2,006	2,033	1,921	2,083	2,126	2,157
Nuclear	-	-	-	-	-	-	-	-
Others	312	410	444	522	589	693	797	844
Final Energy Consumption	2,427	2,947	3,270	3,344	3,290	3,271	3,363	3,321
Industry	963	1,206	1,316	1,263	1,198	1,132	1,209	1,207
Transport	5	6	5	5	5	5	5	5
Residential	877	968	1,044	1,071	1,090	1,136	1,134	1,107
Commerce & Public Services	458	589	703	783	793	783	793	781
Others	125	178	200	222	203	216	222	221

Major Economic Indicators of New Zealand

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	3.33	3.86	4.13	4.23	4.27	4.32	4.37	4.41
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	39.74	53.40	64.39	67.82	66.56	67.19	67.35	68.07
Real Term (Billions of 2000 Price and 2000 PPP)	60.67	81.54	98.32	103.55	101.63	102.59	102.83	103.94
Nominal (Billions of Current USD)	44.43	53.40	113.07	134.80	129.75	116.42	139.99	159.47
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	11,934	13,842	15,577	16,039	15,592	15,568	15,419	15,453
Real Term (2000 Price and 2000 PPP)	18,222	21,136	23,785	24,489	23,807	23,771	23,543	23,595
Nominal (Current USD)	13,344	13,842	27,353	31,880	30,394	26,975	32,049	36,200
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	74.48	117.54	160.59	183.42	184.60	186.37	194.28	201.86
Household Final Consumption Expenditure, etc.	45.50	70.18	95.51	106.32	108.73	111.27	115.58	120.92
General Government Final Consumption Expenditure	14.06	20.34	28.99	34.22	37.38	38.36	39.41	40.67
Gross Fixed Capital Formation	14.92	23.63	38.56	42.41	40.32	35.26	37.35	37.98
Stock Change	-0.15	1.42	1.10	2.07	0.48	-1.18	0.56	N.A.
Exports of Goods and Services	19.76	41.16	43.93	51.70	57.56	52.90	58.16	60.92
Imports of Goods and Services	19.57	39.20	47.49	53.32	59.86	49.92	55.29	58.12
Real GDP & its Components (Billions of 2000 NZD) *1								
Gross Domestic Product	99.10	133.17	160.59	169.13	166.00	167.56	167.96	169.77
Household Final Consumption Expenditure, etc.	58.60	76.58	95.51	101.29	99.42	99.80	101.38	103.49
General Government Final Consumption Expenditure	19.65	23.87	28.99	31.74	33.19	33.25	33.37	33.47
Gross Fixed Capital Formation	17.54	25.57	38.56	40.17	36.77	31.85	33.82	33.48
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	21.74	37.37	43.93	46.78	45.39	47.56	48.54	49.47
Imports of Goods and Services	19.41	32.23	47.49	51.60	49.44	44.75	49.74	52.73
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	5.7	5.3	5.0	4.8	4.9	4.9	N.A.	N.A.
Industry	25.9	23.4	23.3	21.9	21.1	19.8	N.A.	N.A.
Services, etc.	68.5	71.3	71.7	73.3	74.0	75.3	N.A.	N.A.
Manufacturing Production Index (2005=100) *2	56.3	89.1	100.0	102.4	99.1	93.5	96.7	95.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	9.394	13.272	21.730	26.943	30.580	24.933	31.396	37.669
Imports, c.i.f.	9.501	13.906	26.219	30.882	34.369	25.574	30.617	37.105
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.815	0.609	-2.577	-1.823	-1.726	1.313	2.378	2.774
Current Account	-1.453	-2.407	-8.842	-10.872	-11.561	-3.162	-4.765	-6.920
Overall Balance	1.014	-0.106	2.417	3.088	-4.997	3.653	0.847	0.414
Foreign Exchange Rate (NZD/USD) *1	1.6762	2.2011	1.4203	1.3607	1.4227	1.6009	1.3878	1.2658
Purchasing Power Parity (NZD/International Dollar) *1	1.5268	1.4416	1.5350	1.5062	1.4907	1.4540	1.4919	1.4813
Price Indices								
GDP Deflator (2005=100) *3	75.2	88.3	100.0	108.4	111.2	111.2	115.7	118.9
Industry Input Price Index (2005=100) *2	73.6	89.3	100.0	108.9	119.8	116.9	121.4	126.2
Consumer Price Index (2005=100) *2	74.4	89.2	100.0	105.8	110.0	112.3	114.9	120.0
Growth Rate (%) *3								
Real GDP	0.32	2.26	3.22	3.56	-1.85	0.94	0.24	1.08
Population	0.93	0.59	1.14	1.04	0.96	1.10	1.20	0.86
Price								
Industry Input Price Index	4.6	8.3	5.4	3.6	10.0	-2.4	3.9	4.0
Consumer Price Index	6.1	3.0	3.0	2.4	4.0	2.1	2.3	4.4

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	
2011									
Indigenous Production	-	-	890	-	-	-	-	-	-
Import	-	-	982	740	83	-	-	28	384
Export	-	-	-886	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	-13	1	-0	1	2	-	-2
Total Primary Energy Supply	-	-	973	741	83	1	2	28	382
Transfers	-	-	-	-4	26	-229	-10	14	194
Total Transformation Sector	-	-	-966	357	-	238	103	-	206
Main Activity Producer	-	-	-	-104	-	-	-	-	-51
Autoproducers	-	-	-	-495	-	-	-	-	-211
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-966	956	-	238	103	-	468
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-	-	-2	1	-0	0	0	0	0
Total Final Energy Consumption	-	-	4	1,095	108	11	96	42	782
Industry Sector	-	-	4	484	-	11	-	-	440
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	4	484	-	11	-	-	440
Transport Sector	-	-	-	438	108	-	96	-	227
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	438	108	-	96	-	227
Other Sector	-	-	-	173	-	-	-	42	115
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	173	-	-	-	42	115
Non-energy	-	-	-	-	-	-	-	-	-
2010									
Indigenous Production	-	-	890	-	-	-	-	-	-
Import	-	-	993	691	-	-	-	36	427
Export	-	-	-886	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	-25	8	0	2	2	-	2
Total Primary Energy Supply	-	-	972	699	0	2	2	36	429
Transfers	-	-	-	-2	102	-277	-	5	168
Total Transformation Sector	-	-	-966	370	-	286	92	-	167
Main Activity Producer	-	-	-	-104	-	-	-	-	-51
Autoproducers	-	-	-	-469	-	-	-	-	-195
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-966	943	-	286	92	-	413
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-	-	-1	-4	0	0	-1	0	-0
Total Final Energy Consumption	-	-	4	1,062	103	10	94	41	762
Industry Sector	-	-	4	472	-	10	-	-	430
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	4	472	-	10	-	-	430
Transport Sector	-	-	-	424	103	-	94	-	220
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	424	103	-	94	-	220
Other Sector	-	-	-	166	-	-	-	41	113
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	166	-	-	-	41	113
Non-energy	-	-	-	-	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	128	71	-	344	-	-	-	1,433
235	11	-	-	-	-	-	-	-	-	-	-	1,722
-	-	-	-	-	-	-	-	-	-	-	-	-886
-	-	-	-	-	-	-	-	-	-	-	-	-
-0	0	-	-	-	-	-	-	-	-	-	-	-12
234	11	-	-	-	128	71	-	344	-	-	-	2,257
-	-	-	-	-	-	-	-	-	-	-	-	-4
-210	7	-	-	13	-123	-71	-	-344	-	338	-	-810
-53	-	-	-	-	-	-40	-	-	-	83	-	-61
-284	-	-	-	-	-123	-32	-	-344	-	255	-	-738
-	-	-	-	-	-	-	-	-	-	-	-	-
126	7	-	-	13	-	-	-	-	-	-	-	-11
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-5	-	-	-	-	-26	-	-31
0	0	-	-	-	0	-	-	-	-	0	-	-1
24	18	-	-	13	-	-	-	-	-	312	-	1,411
17	16	-	-	-	-	-	-	-	-	235	-	722
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17	16	-	-	-	-	-	-	-	-	235	-	722
7	-	-	-	-	-	-	-	-	-	-	-	438
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	438
-	3	-	-	13	-	-	-	-	-	77	-	251
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	3	-	-	13	-	-	-	-	-	77	-	251
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	123	71	-	344	-	-	-	1,428
226	2	-	-	-	-	-	-	-	-	-	-	1,684
-	-	-	-	-	-	-	-	-	-	-	-	-886
-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-18
228	2	-	-	-	123	71	-	344	-	-	-	2,208
-	-	-	-	-	-	-	-	-	-	-	-	-2
-205	16	-	-	14	-118	-71	-	-344	-	329	-	-800
-53	-	-	-	-	-	-40	-	-	-	83	-	-61
-274	-	-	-	-	-118	-32	-	-344	-	246	-	-716
-	-	-	-	-	-	-	-	-	-	-	-	-
121	16	-	-	14	-	-	-	-	-	-	-	-24
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-5	-	-	-	-	-25	-	-31
1	-0	-	-	-5	-0	-	-	-	-	-0	-	-5
23	18	-	-	10	-	-	-	-	-	304	-	1,370
17	15	-	-	-	-	-	-	-	-	229	-	706
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17	15	-	-	-	-	-	-	-	-	229	-	706
6	-	-	-	-	-	-	-	-	-	-	-	424
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	424
-	3	-	-	10	-	-	-	-	-	74	-	240
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	3	-	-	10	-	-	-	-	-	74	-	240
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Papua New Guinea

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	866	1,123	1,742	2,109	2,116	2,259	2,208	2,257
Indigenous Production	4,612	3,866	2,778	2,515	2,643	2,566	1,428	1,433
Import	797	908	1,733	1,677	1,628	1,614	1,684	1,722
Export	-4,512	-3,651	-2,767	-1,659	-2,044	-1,943	-886	-886
Final Energy Consumption	613	880	1,171	1,271	1,297	1,333	1,370	1,411
Industry	190	480	597	662	673	689	706	722
Transport	209	306	354	378	396	409	424	438
Residential	35	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	179	94	220	231	228	235	240	251
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	824	844	901	972	973
Indigenous Production	4,500	3,651	2,462	1,987	2,102	2,022	890	890
Import	-	-	917	778	870	753	993	982
Export	-4,500	-3,651	-2,344	-1,487	-2,044	-1,943	-886	-886
Transformation Sector	-	-	-993	-800	-799	-825	-966	-966
Petroleum Refineries	-	-	-993	-800	-799	-825	-966	-966
Petroleum Products								
Primary Energy Supply	753	908	391	756	732	814	699	741
Import	796	908	816	899	758	861	691	740
Export	-12	-	-423	-172	-	-	-	-
Transformation Sector	-	-	527	225	282	245	370	357
Power Generation	-345	-222	-474	-547	-542	-596	-573	-599
Petroleum Refineries	-	-	1,000	772	824	841	943	956
Final Energy Consumption	398	686	895	977	1,003	1,034	1,062	1,095
Industry	87	338	402	438	450	461	472	484
Transport	209	306	354	378	396	409	424	438
Residential	24	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	78	42	139	161	157	163	166	173
Natural Gas								
Primary Energy Supply	72	119	125	110	123	126	123	128
Indigenous Production	72	119	125	110	123	126	123	128
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-120	-108	-118	-118	-118	-123
Power Generation	-	-119	-120	-108	-118	-118	-118	-123
Final Energy Consumption	72	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	72	-	-	-	-	-	-	-
Electricity								
Power Generation	154	204	281	301	309	322	329	338
Thermal	114	108	193	192	201	214	223	232
Hydro	40	80	77	74	74	73	71	71
Nuclear	-	-	-	-	-	-	-	-
Others	-	16	11	34	34	34	34	34
Final Energy Consumption	142	194	263	282	291	296	304	312
Industry	103	142	195	213	219	224	229	235
Transport	-	-	-	-	-	-	-	-
Residential	11	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	28	52	68	70	72	72	74	77

Major Economic Indicators of Papua New Guinea

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	4.16	5.38	6.10	6.40	6.55	6.70	6.86	7.01
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	2.34	3.50	3.79	4.17	4.45	4.70	5.07	5.53
Real Term (Billions of 2000 Price and 2000 PPP)	6.23	9.31	10.09	11.10	11.84	12.49	13.49	14.70
Nominal (Billions of Current USD)	3.22	3.50	4.90	6.34	8.01	7.93	9.48	12.39
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	563	651	622	652	680	700	739	788
Real Term (2000 Price and 2000 PPP)	1,498	1,730	1,655	1,735	1,807	1,863	1,967	2,097
Nominal (Current USD)	775	651	804	991	1,223	1,183	1,382	1,767
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	3.08	9.74	15.19	18.80	21.63	21.84	25.78	29.38
Household Final Consumption Expenditure, etc.	1.82	4.34	8.72	10.50	12.95	15.52	16.03	16.82
General Government Final Consumption Expenditure	0.76	1.61	2.01	2.13	2.23	2.33	2.44	2.57
Gross Fixed Capital Formation	0.77	1.99	2.75	3.38	4.02	4.04	4.29	4.53
Stock Change	-0.02	0.14	0.26	0.30	0.30	0.30	0.30	0.27
Exports of Goods and Services	1.25	6.44	11.19	15.22	16.13	12.62	14.40	15.64
Imports of Goods and Services	1.51	4.79	9.74	12.81	13.37	12.44	13.68	14.77
Real GDP & its Components (Billions of 1983 PGK) *1								
Gross Domestic Product	5.19	7.75	8.40	9.24	9.86	10.40	11.23	12.24
Household Final Consumption Expenditure, etc.	3.06	3.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	1.10	1.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	1.33	1.78	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	-0.04	0.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	2.54	5.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	2.90	4.14	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	37.3	35.5	34.9	34.2	32.7	30.9
Industry	22.5	31.4	32.5	32.8	33.0	32.9	31.8	30.3
Services, etc.	40.1	23.8	24.6	25.8	26.3	25.6	24.4	23.1
Industrial Production Index (2005=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.	1.177	2.096	3.273	4.681	5.713	4.394	5.742	6.908
Imports, c.i.f.	1.193	1.151	1.729	2.945	3.510	3.210	3.950	4.800
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.069	1.095	1.792	2.119	2.665	1.521	2.216	N.A.
Current Account	-0.076	0.345	0.539	0.056	0.708	-0.852	-0.914	N.A.
Overall Balance	0.022	0.104	-0.030	0.409	-0.406	0.169	0.085	N.A.
Foreign Exchange Rate (PGK/USD) *1	0.9550	2.7822	3.1019	2.9653	2.7001	2.7551	2.7193	2.3710
Purchasing Power Parity (PGK/International Dollar) *1	0.6066	1.0460	1.3359	1.4148	1.4926	1.4165	1.5272	1.5640
Price Indices								
GDP Deflator (1998=100) *3	59.3	125.6	180.8	203.4	219.4	210.0	229.5	240.0
Wholesale Price Index (2005=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2005=100) *2	27.7	68.6	100.0	103.3	114.4	122.3	129.7	140.6
Growth Rate (%) *3								
Real GDP	-3.01	-2.49	3.60	7.20	6.70	5.50	8.00	9.00
Population	2.48	2.64	2.48	2.43	2.40	2.35	2.30	2.25
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	7.0	15.6	1.8	0.9	10.8	6.9	6.0	8.4

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				
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene
2011								
Indigenous Production	114	-	6,678	-	-	-	-	-
Import	434	9	4,970	2,374	459	-	97	1,619
Export	-122	-	-822	-3,687	-1,620	-	-532	-79
International Marine Bunkers	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-
Stock Changes	210	21	-93	-483	-721	-	538	139
Total Primary Energy Supply	637	30	10,733	-1,796	-1,882	-	103	1,679
Transfers	-	-	-3,167	3,388	1,470	-	-	510
Total Transformation Sector	-211	-	-10,404	7,343	1,823	-	700	2,464
Main Activity Producer	-211	-	-	-503	-	-	-	-98
Autoproducers	-	-	-	-346	-	-	-	-87
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-10,404	8,192	1,823	-	700	2,648
Coal Transformation	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-238	-13	-	-	-106
Discrepancy	169	-	2,838	-30	-0	-	0	0
Total Final Energy Consumption	595	30	-	8,667	1,398	-	803	4,547
Industry Sector	595	30	-	1,236	18	-	-	706
Iron and Steel	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-
Other Industries	595	30	-	1,236	18	-	-	706
Transport Sector	-	-	-	6,034	1,192	-	803	3,702
Domestic Air Transport	-	-	-	803	-	-	803	-
Road	-	-	-	5,193	1,192	-	-	3,702
Rail	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	39	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-
Other Sector	-	-	-	1,137	189	-	-	139
Residential	-	-	-	684	-	-	-	-
Commerce and Public Services	-	-	-	297	170	-	-	57
Agriculture	-	-	-	36	18	-	-	17
Non-specified Others	-	-	-	120	1	-	-	64
Non-energy	-	-	-	259	-	-	-	-
2010								
Indigenous Production	60	-	7,115	-	-	-	-	-
Import	589	42	4,881	1,876	224	-	14	1,450
Export	-70	-	-968	-7,104	-1,779	-	-474	-138
International Marine Bunkers	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-
Stock Changes	109	4	120	2,695	-600	-	469	270
Total Primary Energy Supply	688	46	11,147	-2,533	-2,155	-	8	1,581
Transfers	-	-	-709	3,446	1,470	-	-58	551
Total Transformation Sector	-257	-	-10,388	9,499	1,871	-	714	4,275
Main Activity Producer	-257	-	-	-445	-	-	-	-83
Autoproducers	-	-	-	-188	-	-	-	-94
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-10,435	10,131	1,871	-	714	4,452
Coal Transformation	-	-	-	-	-	-	-	-
Other Transformation	-	-	48	-	-	-	-	-
Loss & Own Use	-	-	-	-562	-26	-	-	-211
Discrepancy	122	-	-51	-1,783	204	-	-12	-2,061
Total Final Energy Consumption	553	46	-	8,067	1,365	-	653	4,136
Industry Sector	553	46	-	940	18	-	-	416
Iron and Steel	54	46	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-
Other Industries	499	-	-	940	18	-	-	416
Transport Sector	-	-	-	5,681	1,163	-	653	3,602
Domestic Air Transport	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	5,681	1,163	-	653	3,602
Other Sector	-	-	-	1,119	184	-	51	118
Residential	-	-	-	652	-	-	7	-
Commerce and Public Services	-	-	-	323	165	-	42	49
Agriculture	-	-	-	33	18	-	0	15
Non-specified Others	-	-	-	112	1	-	2	54
Non-energy	-	-	-	326	-	-	-	-

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
-	-	-	-	-	11,759	1,855	-	6	300	-	-	20,713
47	0	-	-	152	-	-	-	-	220	0	-	8,008
-1,233	-198	-	-	-25	-5,306	-	-	-	-	-	-	-9,938
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-269	14	-	-	-184	-	-	-	-	-16	-	-	-360
-1,456	-184	-	-	-57	6,453	1,855	-	6	505	0	-	18,423
-	1,378	-	-	31	-	-	-	-	-	-	-	221
1,798	211	59	-	288	-3,661	-1,855	-	-0	-505	3,373	-	-5,921
-405	-	-	-	-	-3,405	-1,810	-	-0	-35	3,120	-	-2,844
-115	-	-145	-	-	-256	-46	-	-	-197	253	-46	-592
-	-	-	-	-	-	-	-	-	-	-	-	-
2,318	211	204	-	288	-	-	-	-	-	-	-	-2,212
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-272	-	-	-272
-87	-0	-29	-	-3	-1,368	-	-	-	-	-224	-	-1,830
0	0	-30	-	0	0	-	-	-0	-0	-1	-	2,977
255	1,404	-	-	259	1,423	-	-	6	-	3,149	-	13,871
162	350	-	-	-	834	-	-	-	-	1,553	-	4,249
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
162	350	-	-	-	834	-	-	-	-	1,553	-	4,249
39	299	-	-	-	407	-	-	-	-	294	-	6,735
-	-	-	-	-	-	-	-	-	-	-	-	803
-	299	-	-	-	407	-	-	-	-	-	-	5,599
-	-	-	-	-	-	-	-	-	-	294	-	294
39	-	-	-	-	-	-	-	-	-	-	-	39
-	-	-	-	-	-	-	-	-	-	-	-	-
54	755	-	-	-	182	-	-	6	-	1,302	-	2,627
-	684	-	-	-	10	-	-	3	-	645	-	1,342
-	70	-	-	-	159	-	-	3	-	584	-	1,043
-	1	-	-	-	-	-	-	0	-	53	-	89
54	1	-	-	-	13	-	-	-	-	21	-	153
-	-	-	-	259	-	-	-	-	-	-	-	259
-	-	-	-	-	7,626	1,724	-	6	414	-	-	16,945
39	-	-	-	149	-	-	-	-	84	-	-	7,471
-1,265	-423	-	-	-3,024	-2,130	-	-	-	-14	-10	-	-10,295
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-350	57	-	-	2,850	-	-	-	-	-18	-	-	2,909
-1,576	-366	-	-	-26	5,496	1,724	-	6	465	-10	-	17,030
-	1,395	-	-	29	-	-	-	-	-	-	-	2,737
1,882	230	200	-	326	-3,129	-1,724	-	-6	-410	3,088	-	-3,327
-362	-	-	-	-	-2,969	-1,683	-	-	-32	2,885	-	-2,500
-89	-	-5	-	-	-160	-42	-	-6	-200	203	-	-392
-	-	-	-	-	-	-	-	-	-	-	-	-
2,333	230	205	-	326	-	-	-	-	-	-	-	-304
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-179	-	-	-131
-173	-0	-145	-	-7	-1,232	-	-	-	-	-361	-	-2,155
138	0	-55	-	3	-0	0	-	-	-55	0	-	-1,766
271	1,259	-	-	326	1,135	-	-	-	-	2,717	-	12,518
216	284	-	-	-	704	-	-	-	-	1,445	-	3,688
-	-	-	-	-	-	-	-	-	-	-	-	100
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
216	284	-	-	-	704	-	-	-	-	1,445	-	3,588
0	263	-	-	-	367	-	-	-	-	-	-	6,048
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	263	-	-	-	367	-	-	-	-	-	-	6,048
55	712	-	-	-	64	-	-	-	-	1,273	-	2,456
-	645	-	-	-	6	-	-	-	-	654	-	1,312
-	66	-	-	-	50	-	-	-	-	551	-	924
0	0	-	-	-	-	-	-	-	-	48	-	81
54	1	-	-	-	8	-	-	-	-	19	-	139
-	-	-	-	326	-	-	-	-	-	-	-	326

Major Energy Indicators of Peru

ktoe

	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	7,537	11,047	11,127	12,505	13,260	13,708	17,030	18,423
Indigenous Production	8,193	7,832	8,064	10,525	10,876	12,439	16,945	20,713
Import	1,668	5,397	6,515	7,973	7,510	6,803	7,471	8,008
Export	-2,267	-2,094	-3,677	-4,225	-4,080	-4,378	-10,295	-9,938
Final Energy Consumption	6,208	9,200	8,971	9,841	11,002	12,067	12,518	13,871
Industry	1,958	3,336	3,454	4,000	4,162	3,941	3,688	4,249
Transport	2,499	3,386	3,491	3,591	4,382	5,464	6,048	6,735
Residential	-	-	1,213	1,148	1,274	1,257	1,312	1,342
Commerce & Public Services	-	-	436	657	562	848	924	1,043
Others	1,751	2,478	377	444	623	557	546	501
Coal, Coal Products								
Primary Energy Supply	145	630	928	1,018	923	829	733	667
Indigenous Production	68	12	30	78	99	225	60	114
Import	71	588	807	869	648	553	631	443
Export	-	-	-	-	-	-	-70	-122
Transformation Sector	-	-	-330	-388	-329	-258	-257	-211
Power Generation	-	-99	-230	-242	-251	-258	-257	-211
Final Energy Consumption	100	430	591	613	579	580	599	626
Industry	93	430	591	613	579	580	599	626
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	7	0	0	0	-	-	-	-
Crude Oil								
Primary Energy Supply	7,149	7,268	8,258	9,694	9,531	10,792	11,147	10,733
Indigenous Production	6,493	4,829	4,074	5,386	5,611	6,733	7,115	6,678
Import	888	3,090	4,698	5,805	4,979	5,024	4,881	4,970
Export	-150	-687	-609	-1,442	-925	-1,011	-968	-822
Transformation Sector	-	-	-7,782	-9,098	-9,146	-9,571	-10,388	-10,404
Petroleum Refineries	-7,432	-7,740	-7,782	-9,098	-8,871	-9,571	-10,435	-10,404
Petroleum Products								
Primary Energy Supply	-1,389	158	-2,019	-3,268	-2,360	-3,437	-2,533	-1,796
Import	709	1,720	1,010	1,299	1,882	1,176	1,876	2,374
Export	-2,117	-1,407	-3,068	-2,783	-3,155	-3,362	-7,104	-3,687
Transformation Sector	-	-	7,365	8,218	8,018	8,826	9,499	7,343
Power Generation	-760	-686	-608	-367	-691	-512	-632	-849
Petroleum Refineries	7,449	7,763	7,973	8,584	8,708	9,338	10,131	8,192
Final Energy Consumption	5,020	7,225	6,299	6,371	7,123	8,157	8,067	8,667
Industry	1,210	2,021	1,609	1,665	1,591	1,470	940	1,236
Transport	2,499	3,386	3,491	3,545	4,252	5,245	5,681	6,034
Residential	-	-	609	593	663	623	652	684
Commerce & Public Services	-	-	258	197	63	286	323	297
Others	1,311	1,818	331	371	554	533	471	415
Natural Gas								
Primary Energy Supply	757	1,547	2,221	2,597	3,321	3,510	5,496	6,453
Indigenous Production	757	1,547	2,221	2,597	3,321	3,510	7,626	11,759
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-2,130	-5,306
Transformation Sector	-	-	-1,558	-1,624	-2,040	-2,098	-3,129	-3,661
Power Generation	-75	-226	-1,263	-1,624	-2,040	-2,098	-3,129	-3,661
Final Energy Consumption	74	1	179	535	737	769	1,135	1,423
Industry	28	-	179	454	594	489	704	834
Transport	-	-	0	46	130	220	367	407
Residential	-	-	0	1	5	3	6	10
Commerce & Public Services	-	-	-	13	-	33	50	159
Others	46	1	-	22	8	24	8	13
Electricity								
Power Generation	1,132	1,713	2,194	2,582	2,837	2,841	3,088	3,373
Thermal	257	322	534	753	1,041	967	1,126	1,285
Hydro	875	1,391	1,546	1,685	1,637	1,708	1,724	1,855
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	114	144	158	165	237	232
Final Energy Consumption	1,014	1,490	1,900	2,321	2,563	2,561	2,717	3,149
Industry	627	884	1,075	1,269	1,397	1,401	1,445	1,553
Transport	-	-	-	-	-	-	-	294
Residential	-	-	603	554	607	630	654	645
Commerce & Public Services	-	-	177	447	499	530	551	584
Others	387	606	46	51	61	-	67	73

Major Economic Indicators of Peru

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	21.77	26.00	27.72	28.33	28.63	28.93	29.26	29.61
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	36.12	53.34	65.49	76.84	84.37	85.10	92.59	98.98
Real Term (Billions of 2000 Price and 2000 PPP)	86.13	127.17	156.15	183.22	201.18	202.92	220.76	236.02
Nominal (Billions of Current USD)	28.97	53.34	79.39	107.26	126.89	126.95	153.88	176.66
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	1,659	2,051	2,362	2,712	2,947	2,941	3,164	3,342
Real Term (2000 Price and 2000 PPP)	3,956	4,891	5,633	6,468	7,028	7,013	7,544	7,970
Nominal (Current USD)	1,331	2,051	2,864	3,786	4,433	4,388	5,259	5,965
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	5.44	186.14	261.65	335.53	371.07	382.32	434.74	486.54
Household Final Consumption Expenditure, etc.	4.01	132.46	173.05	206.35	237.35	250.00	269.02	295.79
General Government Final Consumption Expenditure	0.43	19.72	26.30	30.15	33.31	39.45	44.04	47.81
Gross Fixed Capital Formation	0.88	37.61	47.97	72.26	95.97	87.37	109.09	117.28
Stock Change	0.02	-0.08	-1.16	4.38	3.77	-8.19	0.75	6.57
Exports of Goods and Services	0.86	29.79	65.65	97.59	101.17	91.67	110.85	139.54
Imports of Goods and Services	0.75	33.80	50.15	75.20	100.50	77.98	99.01	120.45
Real GDP & its Components (Billions of 1994 PEN) *1								
Gross Domestic Product	81.98	121.06	148.64	174.41	191.51	193.16	210.14	224.67
Household Final Consumption Expenditure, etc.	60.90	86.20	102.86	118.62	128.96	131.99	139.89	148.78
General Government Final Consumption Expenditure	7.38	11.56	13.53	15.22	15.54	18.09	19.90	20.86
Gross Fixed Capital Formation	13.72	23.74	27.70	40.91	51.99	47.22	58.19	61.13
Stock Change	0.21	-0.05	-0.67	2.08	2.11	-4.25	0.39	3.29
Exports of Goods and Services	9.26	20.08	32.51	35.02	37.87	36.68	37.15	40.41
Imports of Goods and Services	9.50	20.48	27.28	37.43	44.96	36.58	45.37	49.80
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	8.5	9.4	8.8	8.4	8.2	8.2	7.8	7.6
Industry	25.9	27.5	29.0	29.2	29.2	28.3	28.9	28.1
Services, etc.	56.4	53.5	52.4	53.0	52.9	54.0	53.6	54.6
Manufacturing Production Index (2005=100) *2	55.2	78.7	100.0	119.4	130.2	120.9	137.4	144.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.230	7.028	17.368	27.882	31.019	26.962	35.565	46.268
Imports, c.i.f.	2.634	7.415	12.502	20.464	29.982	21.865	30.126	38.011
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.399	-0.403	5.583	8.835	2.940	6.153	7.175	10.005
Current Account	-1.419	-1.546	1.148	1.460	-5.318	-0.723	-3.782	-3.341
Overall Balance	-2.141	-0.130	1.411	10.344	3.457	1.902	10.970	4.684
Foreign Exchange Rate (PEN/USD) *1	0.1879	3.4900	3.2958	3.1280	2.9244	3.0115	2.8251	2.7541
Purchasing Power Parity (PEN/International Dollar) *1	0.0776	1.4637	1.4865	1.5295	1.5072	1.5262	1.5741	1.6134
Price Indices								
GDP Deflator (1994=100) *3	6.6	153.8	176.0	192.4	193.8	197.9	206.9	216.6
Wholesale Price Index (2005=100) *2	5.4	91.1	100.0	105.8	115.2	113.2	115.2	122.8
Consumer Price Index (2005=100) *2	3.6	90.9	100.0	103.8	109.8	113.0	114.8	118.6
Growth Rate (%) *3								
Real GDP	-5.14	2.95	6.83	8.91	9.80	0.86	8.79	6.91
Population	2.09	1.52	1.17	1.06	1.05	1.08	1.14	1.20
Price								
Wholesale Price Index	6,737.4	4.3	2.3	2.5	8.9	-1.8	1.8	6.6
Consumer Price Index	7,481.7	3.8	1.6	1.8	5.8	2.9	1.5	3.4

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 Philippines

Energy Balance Table of Philippines

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2011									
Indigenous Production	3,632	-	313	-	-	-	-	-	-
Import	5,786	-	9,124	5,905	1,576	-	610	31	2,475
Export	-1,444	-	-329	-1,091	-34	-218	-	-6	-35
International Marine Bunkers	-	-	-	-212	-	-	-	-	-24
International Aviation Bunkers	-	-	-	-1,071	-	-	-1,071	-	-
Stock Changes	-248	-	-88	202	1	-11	12	2	193
Total Primary Energy Supply	7,726	-	9,019	3,734	1,543	-229	-449	27	2,609
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-5,785	-	-9,187	8,263	1,756	171	773	99	3,337
Main Activity Producer	-5,785	-	-	-796	-	-	-	-	-181
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-9,277	9,059	1,756	171	773	99	3,518
Coal Transformation	-	-	90	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-103	-	168	-702	-408	58	-20	6	-271
Total Final Energy Consumption	1,838	-	-	11,296	2,892	-	304	132	5,675
Industry Sector	1,838	-	-	1,318	-	-	-	20	577
Iron and Steel	81	-	-	88	-	-	-	2	13
Chemical & Petrochemical	18	-	-	144	-	-	-	17	58
Non-metallic Minerals	1,650	-	-	179	-	-	-	0	48
Other Industries	89	-	-	906	-	-	-	1	457
Transport Sector	-	-	-	7,778	2,888	-	304	-	4,295
Domestic Air Transport	-	-	-	307	3	-	304	-	-
Road	-	-	-	6,805	2,843	-	-	-	3,917
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	666	42	-	-	-	379
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,083	4	-	-	113	803
Residential	-	-	-	916	-	-	-	112	-
Commerce and Public Services	-	-	-	980	-	-	-	-	627
Agriculture	-	-	-	23	0	-	-	-	22
Non-specified Others	-	-	-	163	4	-	-	1	154
Non-energy	-	-	-	117	-	-	-	-	-
2010									
Indigenous Production	3,510	-	922	-	-	-	-	-	-
Import	5,788	-	9,095	6,639	1,569	-	447	37	3,013
Export	-2,163	-	-862	-857	-24	-267	-	-7	-17
International Marine Bunkers	-	-	-	-183	-	-	-	-	-34
International Aviation Bunkers	-	-	-	-989	-	-	-989	-	-
Stock Changes	-104	-	-100	-83	-11	10	-	-5	-48
Total Primary Energy Supply	7,030	-	9,054	4,528	1,534	-257	-542	25	2,914
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-5,090	-	-8,650	7,071	1,568	185	775	138	2,880
Main Activity Producer	-5,090	-	-	-1,487	-	-	-	-	-337
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-8,733	8,558	1,568	185	775	138	3,217
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	83	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-7	-	-404	128	-22	73	-1	-16	-142
Total Final Energy Consumption	1,933	-	-	11,727	3,081	-	232	147	5,651
Industry Sector	1,933	-	-	1,431	-	-	-	18	478
Iron and Steel	81	-	-	463	-	-	-	1	99
Chemical & Petrochemical	18	-	-	170	-	-	-	17	55
Non-metallic Minerals	1,745	-	-	9	-	-	-	-	1
Other Industries	89	-	-	789	-	-	-	1	323
Transport Sector	-	-	-	8,087	3,073	-	232	-	4,423
Domestic Air Transport	-	-	-	236	4	-	232	-	-
Road	-	-	-	7,149	3,021	-	-	-	4,055
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	702	49	-	-	-	368
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,088	8	-	-	128	750
Residential	-	-	-	930	-	-	-	127	-
Commerce and Public Services	-	-	-	942	-	-	-	-	550
Agriculture	-	-	-	22	0	-	-	-	21
Non-specified Others	-	-	-	193	8	-	-	1	180
Non-energy	-	-	-	120	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,473	812	-	8,558	5,051	-	-	21,838
330	773	-	-	111	-	-	-	-	149	-	-	20,964
-505	-8	-	-	-285	-	-	-	-	-	-	-	-2,864
-188	-	-	-	-	-	-	-	-	-	-	-	-212
-	-	-	-	-	-	-	-	-	-	-	-	-1,071
-16	21	-	-	1	-	-	-	-	31	-	-	-102
-379	786	-	-	-174	3,473	812	-	8,558	5,231	-	-	38,553
-	-	-	-	-	-	-	-	-	-	-	-	-
1,292	414	-	-	420	-3,296	-812	-	-8,558	-1,613	5,938	-	-15,050
-615	-	-	-	-	-3,296	-812	-	-8,558	-62	5,938	-	-13,371
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,906	414	-	-	420	-	-	-	-	-	-	-	-218
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,551	-	-	-1,461
-	-	-	-	-	-94	-	-	-	-	-462	-	-557
99	-37	-	-	-129	0	-	-	-	1,383	-651	-	95
1,012	1,164	-	-	117	82	-	-	-	5,001	4,824	-	23,042
616	106	-	-	-	81	-	-	-	1,030	1,663	-	5,930
60	13	-	-	-	-	-	-	-	-	339	-	508
61	8	-	-	-	-	-	-	-	-	101	-	264
119	11	-	-	-	-	-	-	-	-	127	-	1,955
375	73	-	-	-	81	-	-	-	1,030	1,096	-	3,203
245	46	-	-	-	1	-	-	-	-	10	-	7,789
-	-	-	-	-	-	-	-	-	-	-	-	307
-	46	-	-	-	1	-	-	-	-	-	-	6,806
-	-	-	-	-	-	-	-	-	-	10	-	10
245	-	-	-	-	-	-	-	-	-	-	-	666
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
151	1,013	-	-	-	-	-	-	-	3,971	3,152	-	9,206
-	805	-	-	-	-	-	-	-	3,638	1,608	-	6,162
145	208	-	-	-	-	-	-	-	333	1,430	-	2,743
1	-	-	-	-	-	-	-	-	-	101	-	124
4	-	-	-	-	-	-	-	-	-	14	-	177
-	-	-	-	117	-	-	-	-	-	-	-	117
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	3,049	671	-	8,544	6,491	-	-	23,188
599	807	-	-	168	-	-	-	-	95	-	-	21,617
-195	-1	-	-	-344	-	-	-	-	-	-	-	-3,883
-149	-	-	-	-	-	-	-	-	-	-	-	-183
-	-	-	-	-	-	-	-	-	-	-	-	-989
-15	-17	-	-	2	-	-	-	-	31	-	-	-256
239	789	-	-	-174	3,049	671	-	8,544	6,617	-	-	39,494
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
712	388	-	-	424	-2,859	-671	-	-8,544	-1,543	5,826	-	-14,461
-1,150	-	-	-	-	-2,859	-671	-	-8,544	-16	5,826	-	-12,842
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,863	388	-	-	424	-	-	-	-	-	-	-	-175
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,527	-	-	-1,444
-	-	-	-	-	-118	-	-	-	-	-1,073	-	-1,191
380	-13	-	-	-130	0	-	-	-	0	-	-	-283
1,331	1,164	-	-	120	72	-	-	-	5,074	4,753	-	23,559
862	72	-	-	-	71	-	-	-	1,012	1,598	-	6,045
346	17	-	-	-	-	-	-	-	-	326	-	870
97	1	-	-	-	-	-	-	-	-	97	-	285
-	8	-	-	-	-	-	-	-	-	122	-	1,875
419	46	-	-	-	71	-	-	-	1,012	1,053	-	3,014
285	74	-	-	-	0	-	-	-	-	10	-	8,097
-	-	-	-	-	-	-	-	-	-	-	-	236
-	74	-	-	-	0	-	-	-	-	-	-	7,150
-	-	-	-	-	-	-	-	-	-	10	-	10
285	-	-	-	-	-	-	-	-	-	-	-	702
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
184	1,018	-	-	-	-	-	-	-	4,063	3,146	-	9,296
-	803	-	-	-	-	-	-	-	3,735	1,620	-	6,285
177	215	-	-	-	-	-	-	-	328	1,398	-	2,668
1	-	-	-	-	-	-	-	-	-	112	-	135
5	-	-	-	-	-	-	-	-	-	15	-	209
-	-	-	-	120	-	-	-	-	-	-	-	120

Major Energy Indicators of Philippines

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	28,309	38,969	37,823	37,413	38,571	38,554	39,494	38,553
Indigenous Production	17,222	19,552	21,400	22,183	22,827	23,295	23,188	21,838
Import	12,555	21,760	18,943	20,000	20,180	17,965	21,617	20,964
Export	-641	-1,753	-1,954	-3,786	-3,494	-1,802	-3,883	-2,864
Final Energy Consumption	19,474	23,502	22,371	22,402	22,425	22,926	23,559	23,042
Industry	4,682	5,352	5,355	6,279	6,159	5,826	6,045	5,930
Transport	4,290	7,695	7,867	7,172	7,447	7,962	8,097	7,789
Residential	9,164	8,172	6,820	6,340	6,311	6,280	6,285	6,162
Commerce & Public Services	841	1,726	1,962	2,105	2,055	2,419	2,668	2,743
Others	497	557	367	506	453	438	463	418
Coal, Coal Products								
Primary Energy Supply	1,358	4,539	5,230	5,449	6,225	5,310	7,030	7,726
Indigenous Production	649	715	1,520	1,791	1,905	2,474	3,510	3,632
Import	709	3,824	3,710	4,079	4,791	3,888	5,788	5,786
Export	-	-	-	-422	-472	-1,052	-2,163	-1,444
Transformation Sector	-559	-3,784	-4,134	-3,972	-4,558	-4,442	-5,090	-5,785
Power Generation	-559	-3,784	-4,134	-3,972	-4,558	-4,442	-5,090	-5,785
Final Energy Consumption	696	840	1,184	1,419	1,798	1,624	1,933	1,838
Industry	696	840	1,184	1,419	1,798	1,624	1,933	1,838
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	10,825	15,121	10,493	10,683	8,997	7,905	9,054	9,019
Indigenous Production	229	55	765	827	715	962	922	313
Import	10,597	15,033	10,301	10,331	9,283	6,772	9,095	9,124
Export	-	-	-738	-801	-653	-257	-862	-329
Transformation Sector	-10,242	-14,721	-9,958	-10,045	-8,718	-6,827	-8,650	-9,187
Petroleum Refineries	-10,242	-14,721	-9,958	-10,045	-8,718	-6,940	-8,733	-9,277
Petroleum Products								
Primary Energy Supply	-220	527	2,984	1,715	3,134	5,436	4,528	3,734
Import	1,249	2,903	4,931	5,588	6,097	7,261	6,639	5,905
Export	-641	-1,753	-1,216	-2,563	-2,369	-492	-857	-1,091
Transformation Sector	7,939	12,333	8,126	8,445	7,509	5,739	7,071	8,263
Power Generation	-2,135	-1,925	-1,411	-1,045	-1,083	-1,178	-1,487	-796
Petroleum Refineries	10,074	14,258	9,537	9,490	8,591	6,917	8,558	9,059
Final Energy Consumption	7,833	12,592	11,374	11,082	10,733	11,373	11,727	11,296
Industry	2,225	2,405	1,669	2,136	1,539	1,340	1,431	1,318
Transport	4,290	7,690	7,860	7,163	7,437	7,952	8,087	7,778
Residential	766	1,411	1,000	805	894	938	930	916
Commerce & Public Services	98	554	520	515	519	826	942	980
Others	454	532	325	463	343	316	336	303
Natural Gas								
Primary Energy Supply	-	9	2,719	3,054	3,214	3,237	3,049	3,473
Indigenous Production	-	9	2,719	3,054	3,214	3,237	3,049	3,473
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-9	-2,610	-2,738	-3,022	-3,064	-2,859	-3,296
Power Generation	-	-9	-2,610	-2,738	-3,022	-3,064	-2,859	-3,296
Final Energy Consumption	-	-	12	78	71	71	72	82
Industry	-	-	12	78	70	70	71	81
Transport	-	-	0	-	0	0	0	1
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	2,264	3,895	4,865	5,127	5,231	5,325	5,826	5,938
Thermal	1,079	2,224	3,290	3,507	3,457	3,583	4,279	4,202
Hydro	521	671	721	736	846	842	671	812
Nuclear	-	-	-	-	-	-	-	-
Others	664	1,000	853	884	928	900	876	925
Final Energy Consumption	1,824	3,144	3,884	4,129	4,232	4,377	4,753	4,824
Industry	855	1,135	1,325	1,397	1,465	1,469	1,598	1,663
Transport	-	5	8	9	10	10	10	10
Residential	482	1,109	1,379	1,408	1,431	1,508	1,620	1,608
Commerce & Public Services	444	870	1,130	1,272	1,216	1,269	1,398	1,430
Others	43	25	42	42	110	121	128	115

Major Economic Indicators of Philippines

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	61.95	77.65	85.82	88.88	90.37	91.89	93.44	95.05
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	61.10	81.03	101.40	113.78	118.51	119.87	129.02	134.06
Real Term (Billions of 2000 Price and 2000 PPP)	139.50	185.00	231.53	259.79	270.58	273.69	294.58	306.09
Nominal (Billions of Current USD)	44.31	81.03	103.07	149.36	174.20	168.33	199.59	224.77
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	986	1,043	1,182	1,280	1,311	1,305	1,381	1,410
Real Term (2000 Price and 2000 PPP)	2,252	2,382	2,698	2,923	2,994	2,979	3,152	3,220
Nominal (Current USD)	715	1,043	1,201	1,681	1,928	1,832	2,136	2,365
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	1,077.24	3,580.71	5,677.75	6,892.72	7,720.90	8,026.14	9,003.48	9,735.52
Household Final Consumption Expenditure, etc.	767.06	2,585.28	4,259.13	5,064.46	5,739.59	5,993.43	6,442.03	7,177.05
General Government Final Consumption Expenditure	108.84	409.05	513.25	639.99	681.89	791.40	875.29	931.68
Gross Fixed Capital Formation	248.95	791.34	1,129.94	1,371.62	1,518.17	1,526.10	1,847.75	1,857.30
Stock Change	11.21	-133.65	93.64	-176.60	-28.96	-194.44	1.63	256.70
Exports of Goods and Services	296.42	1,839.39	2,619.54	2,981.85	2,849.94	2,587.01	3,133.51	3,019.74
Imports of Goods and Services	358.55	1,910.69	2,937.76	2,988.59	3,039.74	2,677.36	3,296.73	3,506.95
Real GDP & its Components (Billions of 1985 PHP) *1								
Gross Domestic Product	2,700.07	3,580.71	4,481.28	5,028.29	5,237.10	5,297.24	5,701.54	5,924.41
Household Final Consumption Expenditure, etc.	1,774.61	2,585.28	3,301.79	3,598.44	3,730.86	3,817.91	3,945.83	4,194.51
General Government Final Consumption Expenditure	347.72	409.05	416.87	492.95	494.37	548.30	570.21	575.82
Gross Fixed Capital Formation	609.10	791.34	883.34	979.75	1,010.62	992.95	1,182.21	1,184.02
Stock Change	48.57	-133.65	61.68	-181.42	-25.81	-93.61	1.44	95.66
Exports of Goods and Services	870.49	1,839.39	2,212.82	2,659.71	2,588.55	2,385.81	2,886.13	2,764.88
Imports of Goods and Services	934.09	1,910.69	2,395.23	2,521.14	2,561.49	2,354.11	2,884.28	2,890.49
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	15.2	14.0	13.3	12.9	12.8	12.5	11.6	11.5
Industry	35.4	34.5	32.7	32.2	32.4	31.5	32.6	32.1
Services, etc.	49.4	51.6	54.0	54.9	54.8	56.0	55.8	56.4
Manufacturing Production Index (2005=100) *2	23.4	68.9	100.0	98.2	102.5	89.0	104.1	106.3
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	8.117	39.783	41.255	50.466	49.078	38.436	51.496	48.305
Imports, c.i.f.	13.042	37.027	49.487	57.996	60.420	45.878	58.468	63.693
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.020	-5.971	-10.254	-10.356	-14.368	-9.652	-12.328	-16.973
Current Account	-2.695	-2.228	1.980	7.112	3.627	9.358	8.922	6.970
Overall Balance	-0.045	-0.477	1.662	8.707	0.867	6.119	16.593	11.401
Foreign Exchange Rate (PHP/USD) *1	24.3105	44.1923	55.0855	46.1484	44.3233	47.6797	45.1097	43.3131
Purchasing Power Parity (PHP/International Dollar) *1	9.4852	19.3549	21.7549	22.1591	23.3163	23.7542	24.4304	24.8933
Price Indices								
GDP Deflator (2000=100) *3	39.9	100.0	126.7	137.1	147.4	151.5	157.9	164.3
Wholesale Price Index (2005=100) *2	N.A.	64.1	100.0	110.4	114.9	113.3	107.7	108.7
Consumer Price Index (2005=100) *2	37.2	80.9	100.0	108.5	117.5	122.4	127.1	133.0
Growth Rate (%) *3								
Real GDP	3.04	4.41	4.78	6.62	4.15	1.15	7.63	3.91
Population	2.55	2.15	1.89	1.73	1.68	1.68	1.70	1.72
Price								
Wholesale Price Index	N.A.	12.5	9.1	0.8	4.1	-1.4	-5.0	0.9
Consumer Price Index	12.7	4.0	6.5	2.9	8.3	4.1	3.9	4.6

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 Russia

Energy Balance Table of Russia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products				
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene
2011								
Indigenous Production	180,042	-	514,868	-	-	-	-	-
Import	4,162	111	468	4,199	1,065	4	-	809
Export	-78,818	-1,754	-248,815	-102,730	-4,061	-873	-	-40,198
International Marine Bunkers	-	-	-	-2,989	-	-	-	-1,168
International Aviation Bunkers	-	-	-	-6,426	-	-	-6,426	-
Stock Changes	131	-	511	-522	-74	-	-	-250
Total Primary Energy Supply	105,517	-1,643	267,033	-108,468	-3,070	-869	-6,426	-40,807
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-98,550	17,425	-262,078	236,598	38,601	20,354	12,851	69,455
Main Activity Producer	-41,646	-	-	-6,992	-	-	-	-
Autoproducers	-17,689	-5,215	-792	-8,832	-	-	-	-2,033
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-261,286	252,422	38,601	20,354	12,851	71,488
Coal Transformation	-39,214	22,639	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-722	-1,517	-4,857	-11,979	-	-	-	-2,170
Discrepancy	-601	-0	0	-1	-	-0	-	-0
Total Final Energy Consumption	5,644	14,264	97	116,150	35,531	19,484	6,425	26,478
Industry Sector	1,609	14,261	65	10,115	-	-	-	2,277
Iron and Steel	16	13,470	-	457	-	-	-	-
Chemical & Petrochemical	124	128	18	5,633	-	-	-	86
Non-metallic Minerals	895	520	36	126	-	-	-	76
Other Industries	574	142	11	3,899	-	-	-	2,114
Transport Sector	-	-	-	59,341	35,531	-	6,425	16,556
Domestic Air Transport	-	-	-	6,469	44	-	6,425	-
Road	-	-	-	48,167	35,163	-	-	12,622
Rail	-	-	-	2,002	83	-	-	1,865
Inland Waterways	-	-	-	1,194	5	-	-	965
Pipeline Transport	-	-	-	331	80	-	-	236
Non-specified Transport	-	-	-	1,178	156	-	-	868
Other Sector	4,034	3	32	13,047	-	-	-	7,645
Residential	1,550	3	-	5,768	-	-	-	1,505
Commerce and Public Services	2,415	0	-	2,507	-	-	-	1,920
Agriculture	64	-	14	3,976	-	-	-	3,885
Non-specified Others	6	-	18	796	-	-	-	335
Non-energy	-	-	-	33,647	-	19,484	-	-
2010								
Indigenous Production	180,041	-	506,545	-	-	-	-	-
Import	15,174	136	1,105	2,833	523	-	-	525
Export	-84,354	-1,593	-248,268	-111,955	-3,114	-	-	-42,347
International Marine Bunkers	-	-	-	-1,531	-	-	-	-912
International Aviation Bunkers	-	-	-	-6,238	-	-	-6,238	-
Stock Changes	5,424	1	-2,455	-910	-133	-	-	-392
Total Primary Energy Supply	116,284	-1,456	256,927	-117,801	-2,724	-	-6,238	-43,126
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-92,947	11,497	-251,967	233,730	37,783	13,088	11,423	69,136
Main Activity Producer	-40,629	-	-	-1,579	-	-	-	-
Autoproducers	-16,269	-5,209	-787	-8,744	-	-	-	-2,029
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-251,180	244,052	37,783	13,088	11,423	71,165
Coal Transformation	-36,050	16,706	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-729	-1,500	-5,064	-12,261	-	-	-	-2,346
Discrepancy	-17,276	5,471	214	-11	-	-0	-	-15
Total Final Energy Consumption	5,332	14,012	110	103,657	35,059	13,088	5,185	23,648
Industry Sector	1,257	13,985	79	11,035	-	-	-	2,591
Iron and Steel	17	13,222	-	494	-	-	-	-
Chemical & Petrochemical	85	116	27	6,250	-	-	-	43
Non-metallic Minerals	595	532	40	182	-	-	-	74
Other Industries	560	116	12	4,110	-	-	-	2,474
Transport Sector	-	-	-	56,298	35,059	-	5,185	15,258
Domestic Air Transport	-	-	-	5,211	25	-	5,185	-
Road	-	-	-	47,769	34,701	-	-	12,721
Rail	-	-	-	1,632	90	-	-	1,469
Inland Waterways	-	-	-	629	5	-	-	432
Pipeline Transport	-	-	-	336	87	-	-	238
Non-specified Transport	-	-	-	721	150	-	-	399
Other Sector	4,075	26	30	10,149	-	-	-	5,799
Residential	1,547	2	-	4,719	-	-	-	1,380
Commerce and Public Services	2,449	24	-	1,663	-	-	-	1,185
Agriculture	73	-	12	2,964	-	-	-	2,877
Non-specified Others	6	-	18	804	-	-	-	357
Non-energy	-	-	-	26,175	-	13,088	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	552,915	14,414	45,094	449	7,091	-	-	1,314,872
1,104	226	-	-	991	6,553	-	-	-	0	134	-	15,627
-52,700	-2,828	-	-	-2,070	-165,316	-	-	-	-0	-2,074	-	-599,506
-1,821	-	-	-	-	-	-	-	-	-	-	-	-2,989
-	-	-	-	-	-	-	-	-	-	-	-	-6,426
-196	-2	-	-	-	-2,797	-	-	-	-3	-	-	-2,681
-53,613	-2,604	-	-	-1,079	391,354	14,414	45,094	449	7,088	-1,940	-	718,898
-	-	-	-	-	-	-	-	-	-	-	-	-
57,485	15,534	13,534	-	8,784	-238,607	-14,414	-45,094	-449	-4,493	90,710	152,417	-166,536
-6,992	-	-	-	-	-149,575	-14,319	-45,094	-449	-	85,197	56,440	-116,438
-5,849	-35	-915	-	-	-87,303	-95	-	-	-4,493	5,513	95,977	-22,930
-	-	-	-	-	-0	-	-	-	-	-	-	-0
70,326	15,570	14,449	-	8,784	-	-	-	-	-	-	-	-8,864
-	-	-	-	-	-	-	-	-	-	-	-	-16,575
-	-	-	-	-	-1,729	-	-	-	-	-	-	-1,729
-1,633	-92	-8,084	-	-	-14,741	-	-	-	-146	-26,091	-28,848	-88,901
-0	-	-	-	-1	-17	-	-	-	-0	0	-	-620
2,239	12,839	5,450	-	7,704	137,989	-	-	-	2,448	62,679	123,569	462,841
970	122	5,450	-	1,296	31,222	-	-	-	354	28,622	46,396	132,645
457	-	-	-	-	12,978	-	-	-	66	4,882	8,559	40,429
38	-	5,449	-	59	2,975	-	-	-	31	3,922	12,796	25,626
38	10	1	-	-	10,176	-	-	-	8	1,495	2,266	15,522
436	112	-	-	1,236	5,093	-	-	-	249	18,324	22,776	51,068
435	395	-	-	-	31,305	-	-	-	-	7,771	-	98,416
-	-	-	-	-	-	-	-	-	-	-	-	6,469
-	381	-	-	-	79	-	-	-	-	-	-	48,246
53	1	-	-	-	-	-	-	-	-	4,136	-	6,138
223	-	-	-	-	-	-	-	-	-	-	-	1,194
8	8	-	-	-	31,226	-	-	-	-	2,225	-	33,782
151	4	-	-	-	-	-	-	-	-	1,409	-	2,588
835	4,567	-	-	-	42,719	-	-	-	2,094	26,286	77,173	165,390
86	4,177	-	-	-	39,703	-	-	-	992	11,256	58,266	117,539
280	307	-	-	-	2,486	-	-	-	942	13,728	13,803	35,882
8	84	-	-	-	526	-	-	-	160	1,277	5,094	11,111
461	-	-	-	-	5	-	-	-	-	24	10	859
-	7,755	-	-	6,408	32,743	-	-	-	-	-	-	66,390
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	540,188	14,482	44,434	435	6,955	-	-	1,293,080
831	134	-	-	820	3,498	-	-	-	0	141	-	22,887
-59,767	-3,618	-	-	-3,109	-154,175	-	-	-	-0	-1,642	-	-601,987
-618	-	-	-	-1	-	-	-	-	-	-	-	-1,531
-	-	-	-	-	-	-	-	-	-	-	-	-6,238
-328	-57	-	-	-	-5,937	-	-	-	-13	-	-	-3,889
-59,881	-3,541	-	-	-2,290	383,575	14,482	44,434	435	6,943	-1,500	-	702,322
-	-	-	-	-	-	-	-	-	-	-	-	-
64,251	14,941	13,321	-	9,786	-224,262	-14,482	-44,434	-435	-4,457	89,271	143,681	-154,805
-1,579	-	-	-	-	-139,983	-14,404	-44,434	-435	-	83,947	52,186	-105,330
-5,793	-33	-889	-	-	-82,602	-78	-	-	-4,457	5,324	91,495	-21,326
-	-	-	-	-	-0	-	-	-	-	-	-	-0
71,623	14,974	14,210	-	9,786	-	-	-	-	-	-	-	-7,128
-	-	-	-	-	-	-	-	-	-	-	-	-19,344
-	-	-	-	-	-1,677	-	-	-	-	-	-	-1,677
-1,838	-81	-7,995	-	-	-15,292	-	-	-	-139	-25,275	-27,782	-88,043
0	4	-0	-	-0	-792	0	-0	-	-0	0	-1,262	-13,656
2,532	11,323	5,326	-	7,495	143,229	-	-	-	2,347	62,495	114,636	445,818
1,314	603	5,326	-	1,200	32,366	-	-	-	357	28,109	44,516	131,704
494	-	-	-	-	13,188	-	-	-	64	4,786	7,962	39,733
71	480	5,325	-	331	3,339	-	-	-	27	3,980	13,635	27,458
80	26	1	-	-	10,452	-	-	-	7	1,461	2,227	15,496
669	97	-	-	869	5,386	-	-	-	259	17,882	20,691	49,017
417	378	-	-	-	32,858	-	-	-	-	7,334	-	96,490
-	-	-	-	-	-	-	-	-	-	-	-	5,211
-	347	-	-	-	113	-	-	-	-	-	-	47,882
72	1	-	-	-	-	-	-	-	-	4,003	-	5,634
192	-	-	-	-	-	-	-	-	-	-	-	629
-	11	-	-	-	32,745	-	-	-	-	2,235	-	35,315
154	19	-	-	-	-	-	-	-	-	1,097	-	1,818
800	3,550	-	-	-	44,020	-	-	-	1,990	27,051	70,121	157,463
67	3,272	-	-	-	40,442	-	-	-	984	11,154	52,630	111,477
279	199	-	-	-	3,022	-	-	-	842	14,524	14,502	37,027
8	79	-	-	-	553	-	-	-	165	1,349	2,954	8,070
447	-	-	-	-	2	-	-	-	-	24	34	889
-	6,792	-	-	6,295	33,986	-	-	-	-	-	-	60,161

Major Energy Indicators of Russia

ktoe

	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	877,804	619,159	651,723	672,572	688,489	646,917	702,322	718,898
Indigenous Production	1,292,815	977,902	1,203,266	1,239,119	1,253,940	1,190,623	1,293,080	1,314,872
Import	120,460	32,884	23,182	23,432	28,948	24,072	22,887	15,627
Export	-533,033	-382,450	-562,478	-575,766	-565,522	-561,735	-601,987	-599,506
Final Energy Consumption	625,047	418,764	412,403	428,306	434,931	418,200	445,818	462,841
Industry	208,693	129,459	124,153	125,990	125,388	119,860	131,704	132,645
Transport	115,870	74,478	88,569	92,511	97,204	89,617	96,490	98,416
Residential	83,506	140,269	110,564	112,452	113,968	109,424	111,477	117,539
Commerce & Public Services	36,278	22,640	34,727	39,275	40,612	38,021	37,027	35,882
Others	180,700	51,917	54,391	58,078	57,759	61,277	69,120	78,359
Coal, Coal Products								
Primary Energy Supply	191,071	119,969	112,637	110,959	117,069	95,271	114,829	103,874
Indigenous Production	192,401	128,535	157,426	162,959	167,181	153,640	180,041	180,042
Import	35,088	15,373	13,644	14,212	18,839	14,530	15,310	4,273
Export	-40,423	-25,477	-55,763	-65,026	-64,341	-68,671	-95,947	-80,572
Transformation Sector	-129,024	-99,096	-98,233	-93,472	-97,993	-90,875	-81,450	-81,125
Power Generation	-106,725	-82,408	-79,402	-77,402	-84,143	-71,720	-62,106	-64,550
Final Energy Consumption	54,735	18,857	13,674	15,938	16,634	18,268	19,344	19,908
Industry	14,581	8,883	7,997	11,306	10,380	13,711	15,242	15,870
Transport	0	-	-	-	-	-	-	-
Residential	11,881	8,947	2,829	2,568	3,014	1,911	1,548	1,553
Commerce & Public Services	20,581	387	2,674	1,973	3,151	2,550	2,474	2,416
Others	7,692	638	175	91	88	96	79	69
Crude Oil								
Primary Energy Supply	321,940	183,808	216,841	232,178	244,532	243,659	256,927	267,033
Indigenous Production	526,257	323,259	468,711	490,041	488,534	493,645	506,545	514,868
Import	18,593	5,921	2,438	2,706	2,468	1,793	1,105	468
Export	-222,909	-145,136	-253,850	-259,872	-244,313	-250,143	-248,268	-248,815
Transformation Sector	-308,936	-181,770	-213,894	-229,024	-240,162	-241,004	-251,967	-262,078
Petroleum Refineries	-307,422	-180,704	-213,129	-228,321	-239,431	-240,252	-251,180	-261,286
Petroleum Products								
Primary Energy Supply	-59,218	-57,674	-87,610	-99,748	-101,364	-105,695	-117,801	-108,468
Import	7,329	307	27	37	980	808	2,833	4,199
Export	-64,254	-53,281	-83,506	-94,273	-97,252	-101,096	-111,955	-102,730
Transformation Sector	209,090	157,699	192,071	213,302	220,839	219,345	233,730	236,598
Power Generation	-60,555	-22,162	-15,999	-13,256	-11,851	-12,033	-10,322	-15,824
Petroleum Refineries	269,645	179,861	208,801	227,166	233,349	231,551	244,052	252,422
Final Energy Consumption	144,746	89,706	91,815	99,476	105,943	101,515	103,657	116,150
Industry	24,445	16,952	10,263	12,517	13,036	10,828	11,035	10,115
Transport	72,870	42,290	47,553	50,098	54,623	55,017	56,298	59,341
Residential	8,769	4,354	6,331	6,813	7,588	4,484	4,719	5,768
Commerce & Public Services	421	988	844	2,050	2,093	1,598	1,663	2,507
Others	38,241	25,121	26,825	27,998	28,602	29,588	29,943	38,419
Natural Gas								
Primary Energy Supply	367,391	319,008	349,670	366,066	366,277	350,395	383,575	391,354
Indigenous Production	516,822	470,740	515,842	521,998	534,798	478,731	540,188	552,915
Import	56,438	10,526	6,201	5,989	6,394	6,677	3,498	6,553
Export	-201,719	-156,592	-167,423	-155,007	-157,831	-140,283	-154,175	-165,316
Transformation Sector	-227,750	-189,417	-205,838	-215,481	-213,702	-205,620	-224,262	-238,607
Power Generation	-227,750	-186,415	-203,784	-214,063	-212,150	-204,230	-222,585	-236,878
Final Energy Consumption	143,123	117,174	128,052	131,172	133,977	128,542	143,229	137,989
Industry	30,494	25,843	30,117	26,850	30,136	29,407	32,366	31,222
Transport	34,054	26,939	33,844	34,953	35,418	27,617	32,858	31,305
Residential	47,135	43,124	38,144	38,822	39,911	41,682	40,442	39,703
Commerce & Public Services	8,783	2,456	3,559	5,503	3,919	2,652	3,022	2,486
Others	22,659	18,812	22,387	25,045	24,592	27,185	34,542	33,274
Electricity								
Power Generation	93,065	75,488	81,965	87,319	89,473	85,310	89,271	90,710
Thermal	64,520	46,133	49,871	54,182	57,103	51,976	55,477	56,726
Hydro	14,269	14,222	15,016	15,392	14,337	15,146	14,482	14,414
Nuclear	10,287	11,363	12,989	13,910	14,174	14,217	14,811	15,031
Others	3,989	3,770	4,090	3,834	3,859	3,970	4,500	4,539
Final Energy Consumption	71,090	52,333	55,898	60,281	62,390	59,016	62,495	62,679
Industry	41,428	26,867	28,369	30,339	30,967	26,782	28,109	28,622
Transport	8,924	5,239	7,153	7,452	7,146	6,984	7,334	7,771
Residential	9,197	12,102	9,367	9,970	10,074	10,647	11,154	11,256
Commerce & Public Services	5,752	5,527	9,541	11,106	12,844	13,281	14,524	13,728
Others	5,789	2,598	1,468	1,415	1,358	1,322	1,373	1,301

Major Economic Indicators of Russia

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	148.29	146.30	143.15	142.10	141.95	141.91	142.39	142.96
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	385.90	259.72	349.72	410.52	432.06	398.27	416.21	434.07
Real Term (Billions of 2000 Price and 2000 PPP)	1,485.36	999.66	1,346.09	1,580.09	1,663.02	1,532.95	1,601.99	1,670.74
Nominal (Billions of Current USD)	N.A.	259.72	764.02	1,299.70	1,660.85	1,222.65	1,524.92	1,899.09
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	2,602	1,775	2,443	2,889	3,044	2,806	2,923	3,036
Real Term (2000 Price and 2000 PPP)	10,016	6,833	9,403	11,120	11,716	10,802	11,251	11,687
Nominal (Current USD)	N.A.	1,775	5,337	9,146	11,700	8,616	10,710	13,284
Nominal GDP & its Components (Billions of Current RUR) *1								
Gross Domestic Product	0.64	7,305.60	21,609.77	33,247.51	41,276.85	38,807.22	46,308.54	55,799.57
Household Final Consumption Expenditure, etc.	0.31	3,374.30	10,792.30	16,217.60	20,183.60	21,202.90	23,708.00	27,473.30
General Government Final Consumption Expenditure	0.13	1,102.50	3,645.90	5,751.00	7,359.90	8,066.70	8,441.90	9,781.60
Gross Fixed Capital Formation	0.18	1,232.00	3,836.90	6,980.40	9,200.80	8,535.70	9,829.20	11,620.40
Stock Change	0.01	133.70	501.80	1,053.70	1,325.30	-1,190.90	459.10	2,024.00
Exports of Goods and Services	0.12	3,218.90	7,607.30	10,028.80	12,923.60	10,842.00	13,529.30	16,949.60
Imports of Goods and Services	0.12	1,755.80	4,648.30	7,162.20	9,111.00	7,954.30	9,789.60	12,165.90
Real GDP & its Components (Billions of 2000 RUR) *1								
Gross Domestic Product	10,855.15	7,305.60	9,837.35	11,547.51	12,153.52	11,203.01	11,707.56	12,209.93
Household Final Consumption Expenditure, etc.	3,644.80	3,374.30	5,381.22	6,885.00	7,607.65	7,217.96	7,590.21	8,101.12
General Government Final Consumption Expenditure	1,466.92	1,102.50	1,189.60	1,249.82	1,292.31	1,284.56	1,266.58	1,285.57
Gross Fixed Capital Formation	6,142.42	1,232.00	1,979.71	2,826.64	3,126.26	2,676.08	2,831.29	3,057.79
Stock Change	771.03	133.70	200.19	303.58	332.63	-635.33	-202.81	117.41
Exports of Goods and Services	3,926.52	3,218.90	4,959.99	5,657.36	5,691.30	5,423.81	5,803.48	5,826.69
Imports of Goods and Services	4,678.68	1,755.80	4,027.82	6,165.81	7,078.35	4,926.53	6,197.58	7,455.69
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	5.5	5.8	4.9	4.3	4.4	4.8	4.2	4.6
Industry	42.6	33.9	34.4	32.1	30.9	30.1	30.6	30.5
Services, etc.	49.9	49.7	49.2	51.8	53.0	54.4	54.0	53.5
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.	N.A.	105.565	243.798	354.403	471.606	303.388	400.630	522.011
Imports, c.i.f.	N.A.	44.659	125.434	223.486	291.861	191.803	248.634	323.831
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	60.172	116.185	123.447	177.625	113.231	146.995	196.854
Current Account	N.A.	46.839	84.389	71.348	103.935	50.384	67.452	97.274
Overall Balance	N.A.	13.923	64.968	148.928	-38.919	3.363	36.750	12.638
Foreign Exchange Rate (RUR/USD) *1	N.A.	28.1292	28.2844	25.5808	24.8529	31.7404	30.3679	29.3823
Purchasing Power Parity (RUR/International Dollar) *1	0.0005	7.3081	12.7361	13.9747	14.3412	14.2232	15.6581	17.4183
Price Indices								
GDP Deflator (2000=100) *3	0.0	100.0	219.7	287.9	339.6	346.4	395.5	457.0
Producer Price Index (2005=100) *3	N.A.	44.3	100.0	128.2	155.7	144.5	162.2	190.9
Consumer Price Index (2005=100) *3	N.A.	50.1	100.0	119.6	136.4	152.3	162.8	176.5
Growth Rate (%)								
Real GDP (*3)	-3.00	10.00	6.38	8.54	5.25	-7.82	4.50	4.29
Population (*3)	0.39	0.00	-0.49	-0.28	-0.11	-0.03	0.34	0.40
Price (*2)								
Producer Price Index	N.A.	46.5	20.6	14.1	21.4	-7.2	12.2	17.7
Consumer Price Index	N.A.	20.8	12.7	9.0	14.1	11.7	6.9	8.4

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 2011

Currency Exchange Rate

Currency Exchange Rate	Local currency / US Dollar	
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	217	Coking Coal	RUB/ton	6,505	Coking Coal		
Anthracite	USD/ton	61	Anthracite			Anthracite	RUB/ton	1,920.1
Other bituminous coal	USD/ton	216	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal			Sub-bituminous Coal		
Lignite	USD/ton	21	Lignite	RUB/ton	907	Lignite		
Peat	USD/ton	108	Peat			Peat		
Patent Fuel	USD/ton	260	Patent Fuel			Patent Fuel ³⁾		
Coke	USD/ton	541	Coke			Coke		
Coal Tar	USD/ton	913	Coal Tar			Coal Tar		
BKB/PB	USD/ton	5,424	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	248	Crude Oil	RUB/ton	12,417	Crude Oil		
Natural Gas Liquids	USD/ton	248	Natural Gas Liquids			Natural Gas Liquids		
Ethane	USD/ton	443	Ethane			Ethane		
LPG	USD/ton	787	LPG			LPG		
Naphtha		1,708	Naphtha			Naphtha		
Motor Gasoline	USD/ton	1,019	Motor Gasoline	RUB/ton	28,775	Motor Gasoline ⁴⁾	RUB/litre	28.45
Aviation Gasoline	USD/ton	2,145	Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	USD/ton	824	Kerosene Type Jet Fuel		31,587	Kerosene Type Jet Fuel		
Other Kerosene	USD/ton	1,446	Other Kerosene			Other Kerosene		
Gas/Diesel Oil	USD/ton	4,347	Gas/Diesel Oil	RUB/ton	30,488	Gas/Diesel Oil		
Fuel Oil	USD/ton	662	Fuel Oil	RUB/ton	13,856	Fuel Oil		
White Spirit SBP	USD/ton	1,710	White Spirit SBP			White Spirit SBP		
Lubricants	USD/ton	2,635	Lubricants	RUB/ton	51,201	Lubricants		
Bitumen	USD/ton	695	Bitumen			Bitumen		
Paraffin Waxes	USD/ton	2,238	Paraffin Waxes			Paraffin Waxes		
Petroleum Coke	USD/ton	354	Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	USD/Mm3	23,743	Natural Gas	RUB/1000m3	3,562	Natural Gas ⁵⁾	RUB/month-person	48.32
Liquefied Natural Gas	USD/1000 m3	3,051	Liquefied Natural Gas			Liquefied Natural Gas ⁵⁾	RUB/month-person	182.05
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas	RUB/balloon 50 litre	494.37
Electricity			Electricity			Electricity		
Electricity	USD/MWh	36.1	Electricity	RUB/MWh	1,914	Industrial		
						Commercial		
						Residential ⁶⁾	RUB/100 kWh	249.69
						Others	RUB/100 kWh	184.99
Other Energy Products			Other Energy Products			Other Energy Products		
Charcoal	USD/ton	2,690						

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) In flats without 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	
2011									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	41,468	103,526	14,195	5,116	1,771	303	16,063
Export	-	-	-20	-83,770	-17,117	-923	-4,909	-1,077	-25,646
International Marine Bunkers	-	-	-	-43,154	-	-	-	-	-
International Aviation Bunkers	-	-	-	-4,188	-	-	-4,188	-	-
Stock Changes	-	-	-	-	-	-	-	-	-
Total Primary Energy Supply	-	-	41,448	-27,586	-2,921	4,194	-7,327	-774	-9,583
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-41,448	41,526	3,976	6,873	7,327	895	10,051
Main Activity Producer	-	-	-	-2,005	-	-	-	-	-53
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-128	-	-128	-	-	-
Petroleum Refineries	-	-	-41,448	43,659	3,976	7,001	7,327	895	10,104
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-980	-	-	-	-	-
Discrepancy	-	-	-	-4,194	-	-4,194	-	-0	-0
Total Final Energy Consumption	-	-	-	8,766	1,055	6,873	-	121	468
Industry Sector	-	-	-	6,994	-	6,873	-	121	-
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	6,994	-	6,873	-	121	-
Transport Sector	-	-	-	1,523	1,055	-	-	-	468
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	1,523	1,055	-	-	-	468
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	250	-	-	-	-	-
2010									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	41,211	96,649	14,665	5,850	3,386	303	16,825
Export	-	-	-39	-77,321	-17,280	-1,141	-7,548	-1,077	-26,382
International Marine Bunkers	-	-	-	-40,853	-	-	-	-	-
International Aviation Bunkers	-	-	-	-4,188	-	-	-4,188	-	-
Stock Changes	-	-	-	-	-	-	-	-	-
Total Primary Energy Supply	-	-	41,172	-25,712	-2,615	4,709	-8,349	-774	-9,557
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-41,172	40,144	3,654	6,873	8,349	895	10,017
Main Activity Producer	-	-	-	-1,994	-	-	-	-	-38
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-128	-	-128	-	-	-
Petroleum Refineries	-	-	-41,172	42,266	3,654	7,001	8,349	895	10,055
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-980	-	-	-	-	-
Discrepancy	-	-	-0	-4,709	-	-4,709	-0	-0	0
Total Final Energy Consumption	-	-	-	8,742	1,039	6,873	-	121	460
Industry Sector	-	-	-	6,994	-	6,873	-	121	-
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	6,994	-	6,873	-	121	-
Transport Sector	-	-	-	1,499	1,039	-	-	-	460
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	1,499	1,039	-	-	-	460
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	250	-	-	-	-	-

Note: Above Energy Balances Tables were estimated by C.A.

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	-	-	-	120	-	-	120
63,624	2	-	-	2,452	6,605	-	-	-	-	-	-	151,599
-27,035	-103	-	-	-6,961	-	-	-	-	-	-	-	-83,790
-43,154	-	-	-	-	-	-	-	-	-	-	-	-43,154
-	-	-	-	-	-	-	-	-	-	-	-	-4,188
-	-	-	-	-	-	-	-	-	-	-	-	-
-6,565	-101	-	-	-4,509	6,605	-	-	-	120	-	-	20,587
-	-	-	-	-	-	-	-	-	-	-	-	-
6,565	101	980	-	4,759	-6,492	-	-	-	-120	3,956	-	-2,578
-1,952	-	-	-	-	-6,605	-	-	-	-120	3,956	-	-4,774
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	113	-	-	-	-	-	-	-15
8,517	101	980	-	4,759	-	-	-	-	-	-	-	2,211
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-980	-	-	-	-	-	-	-	-362	-	-1,342
-	-	-	-	-0	10	-	-	-	-	-37	-	-4,221
-	-	-	-	250	123	-	-	-	-	3,556	-	12,446
-	-	-	-	-	74	-	-	-	-	1,410	-	8,478
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	74	-	-	-	-	1,410	-	8,478
-	-	-	-	-	-	-	-	-	-	-	-	1,523
-	-	-	-	-	-	-	-	-	-	-	-	1,523
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	50	-	-	-	-	2,146	-	2,196
-	-	-	-	-	50	-	-	-	-	2,141	-	2,191
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	5	-	5
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	250	-	-	-	-	-	-	-	250
-	-	-	-	-	-	-	-	-	86	-	-	86
54,684	2	-	-	933	6,573	-	-	-	-	-	-	144,433
-20,549	-328	-	-	-3,015	-	-	-	-	-	-	-	-77,360
-40,853	-	-	-	-	-	-	-	-	-	-	-	-40,853
-	-	-	-	-	-	-	-	-	-	-	-	-4,188
-	-	-	-	-	-	-	-	-	-	-	-	-
-6,717	-326	-	-	-2,082	6,573	-	-	-	86	-	-	22,118
-	-	-	-	-	-	-	-	-	-	-	-	-
6,717	326	980	-	2,332	-6,460	-	-	-	-86	3,902	-	-3,672
-1,956	-	-	-	-	-6,573	-	-	-	-86	3,902	-	-4,751
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	113	-	-	-	-	-	-	-15
8,674	326	980	-	2,332	-	-	-	-	-	-	-	1,094
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-980	-	-	-	-	-	-	-	-358	-	-1,338
0	0	-	-	0	6	-	-	-	-	-36	-	-4,740
-	-	-	-	250	119	-	-	-	-	3,507	-	12,368
-	-	-	-	-	70	-	-	-	-	1,436	-	8,500
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	70	-	-	-	-	1,436	-	8,500
-	-	-	-	-	-	-	-	-	-	-	-	1,499
-	-	-	-	-	-	-	-	-	-	-	-	1,499
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	49	-	-	-	-	2,071	-	2,120
-	-	-	-	-	49	-	-	-	-	2,067	-	2,115
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	4	-	4
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	250	-	-	-	-	-	-	-	250

Major Energy Indicators of Singapore

ktoe

	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	9,896	17,236	18,684	19,576	20,681	22,629	22,118	20,587
Indigenous Production	19	96	67	66	76	76	86	120
Import	59,503	79,888	106,695	117,784	129,336	136,721	144,433	151,599
Export	-36,556	-39,544	-55,884	-62,540	-69,608	-73,592	-77,360	-83,790
Final Energy Consumption	5,322	6,397	11,267	11,783	12,175	12,046	12,368	12,446
Industry	1,907	3,514	8,077	8,260	8,531	8,215	8,500	8,478
Transport	2,368	1,190	1,225	1,369	1,431	1,475	1,499	1,523
Residential	-	1,441	1,712	1,902	1,959	2,102	2,115	2,191
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	1,047	253	253	254	254	254	254	254
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	41,286	41,585	54,572	51,152	50,201	44,091	41,172	41,448
Indigenous Production	-	-	-	-	-	-	-	-
Import	41,286	41,585	54,738	51,246	50,271	44,136	41,211	41,468
Export	-0	-	-165	-94	-70	-45	-39	-20
Transformation Sector	-	-41,585	-54,572	-51,152	-50,201	-44,091	-41,172	-41,448
Petroleum Refineries	-43,571	-41,585	-54,572	-51,152	-50,201	-44,091	-41,172	-41,448
Petroleum Products								
Primary Energy Supply	-31,409	-25,524	-41,273	-37,701	-35,902	-27,856	-25,712	-27,586
Import	18,217	37,225	46,639	60,480	72,760	86,267	96,649	103,526
Export	-36,555	-39,544	-55,718	-62,446	-69,538	-73,547	-77,321	-83,770
Transformation Sector	-	30,051	50,481	47,183	45,731	37,487	40,144	41,526
Power Generation	-3,388	-5,688	-1,968	-1,717	-1,515	-1,518	-1,994	-2,005
Petroleum Refineries	39,530	35,868	52,577	49,028	47,374	39,133	42,266	43,659
Final Energy Consumption	4,046	3,787	8,200	8,487	8,833	8,703	8,742	8,766
Industry	1,296	2,372	6,725	6,869	7,152	6,978	6,994	6,994
Transport	2,352	1,165	1,225	1,369	1,431	1,475	1,499	1,523
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	399	250	250	250	250	250	250	250
Natural Gas								
Primary Energy Supply	-	1,078	5,318	6,058	6,305	6,318	6,573	6,605
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	1,078	5,318	6,058	6,305	6,318	6,573	6,605
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-836	-5,212	-5,948	-6,193	-6,205	-6,460	-6,492
Power Generation	-	-942	-5,318	-6,058	-6,305	-6,318	-6,573	-6,605
Final Energy Consumption	55	105	106	110	113	113	119	123
Industry	32	66	61	47	48	64	70	74
Transport	-	-	-	-	-	-	-	-
Residential	-	39	45	63	64	49	49	50
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	23	-	-	-	-	-	-	-
Electricity								
Power Generation	1,343	2,723	3,286	3,538	3,588	3,595	3,902	3,956
Thermal	1,324	2,627	3,220	3,472	3,512	3,519	3,816	3,836
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	19	96	67	66	76	76	86	120
Final Energy Consumption	1,221	2,505	2,960	3,186	3,230	3,230	3,507	3,556
Industry	580	1,076	1,290	1,343	1,332	1,172	1,436	1,410
Transport	16	25	-	-	-	-	-	-
Residential	-	1,401	1,666	1,839	1,894	2,053	2,067	2,141
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	625	3	4	4	4	4	4	5

Major Economic Indicators of Singapore

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	3.05	4.03	4.27	4.59	4.84	4.99	5.08	5.18
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	47.30	94.31	119.06	140.99	143.46	142.33	163.37	171.80
Real Term (Billions of 2000 Price and 2000 PPP)	68.21	136.01	171.71	203.34	206.90	205.27	235.61	247.77
Nominal (Billions of Current USD)	38.84	94.31	125.43	177.87	190.59	188.83	231.70	265.62
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	15,522	23,414	27,911	30,727	29,644	28,537	32,180	33,142
Real Term (2000 Price and 2000 PPP)	22,386	33,767	40,253	44,315	42,752	41,156	46,410	47,797
Nominal (Current USD)	12,745	23,414	29,403	38,763	39,383	37,860	45,639	51,242
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	70.39	162.58	208.76	268.06	269.66	274.66	315.92	334.09
Household Final Consumption Expenditure, etc.	31.93	68.20	83.78	99.29	107.28	106.92	117.68	127.92
General Government Final Consumption Expenditure	6.71	17.70	21.90	25.55	28.63	28.86	33.00	34.00
Gross Fixed Capital Formation	21.90	49.23	44.12	61.29	73.81	74.31	74.25	78.03
Stock Change	2.77	4.72	-2.42	-1.68	5.28	-5.76	-6.60	-3.89
Exports of Goods and Services	124.91	312.71	479.48	582.14	627.96	538.40	643.17	692.21
Imports of Goods and Services	117.82	291.82	418.10	499.15	569.59	469.17	550.01	599.94
Real GDP & its Components (Billions of 1995 SGD) *1								
Gross Domestic Product	82.93	165.36	208.76	247.22	251.54	249.56	286.45	301.23
Household Final Consumption Expenditure, etc.	36.23	67.60	83.78	93.41	96.13	95.67	101.57	106.20
General Government Final Consumption Expenditure	7.38	18.20	21.90	23.60	25.10	26.15	29.07	29.21
Gross Fixed Capital Formation	20.78	48.20	44.12	58.94	66.98	64.85	68.78	73.12
Stock Change	6.14	5.36	-2.42	-1.86	6.37	-6.86	-7.67	-4.24
Exports of Goods and Services	107.14	302.43	479.48	579.14	607.89	561.41	665.90	689.13
Imports of Goods and Services	97.60	280.28	418.10	501.86	549.87	488.32	565.94	586.34
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	31.1	32.9	30.2	30.1	29.2	29.0	31.5	32.2
Services, etc.	62.5	62.0	65.2	64.9	66.7	66.8	64.4	63.9
Manufacturing Production Index (2005=100) *2	38.8	81.4	100.0	118.4	113.5	108.7	141.1	151.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	52.730	137.804	229.649	299.308	338.176	269.832	351.867	409.503
Imports, c.i.f.	60.774	134.545	200.047	263.155	319.780	245.785	310.791	365.770
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.633	13.678	46.697	57.772	42.804	49.309	66.011	72.665
Current Account	3.122	10.244	26.869	46.348	28.838	33.482	62.026	65.323
Overall Balance	5.431	6.822	12.283	19.448	13.097	11.314	42.353	17.243
Foreign Exchange Rate (SGD/USD) *1	1.8125	1.7240	1.6644	1.5071	1.4149	1.4545	1.3635	1.2578
Purchasing Power Parity (SGD/International Dollar) *1	1.2676	1.1954	1.0786	1.1010	1.0650	1.0838	1.0718	1.0554
Price Indices								
GDP Deflator (2005=100) *3	84.9	98.3	100.0	108.4	107.2	110.1	110.3	110.9
Wholesale Price Index (2005=100) *2	93.1	87.7	100.0	105.3	113.2	97.5	102.1	110.7
Consumer Price Index (2005=100) *2	81.7	96.9	100.0	103.1	109.9	110.5	113.6	119.6
Growth Rate (%) *3								
Real GDP	10.11	9.04	7.37	9.02	1.75	-0.79	14.78	5.16
Population	3.96	1.75	2.38	4.25	5.47	3.06	1.79	2.11
Price								
Wholesale Price Index	1.7	10.1	9.7	0.3	7.5	-13.9	4.7	8.4
Consumer Price Index	3.5	1.4	0.4	2.1	6.5	0.6	2.8	5.3

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	
2011									
Indigenous Production	-	-	10	-	-	-	-	-	-
Import	37,012	69	41,908	15,869	60	10,992	40	-	-
Export	-	-66	-	-13,360	-2,797	-0	-1,120	-	-7,679
International Marine Bunkers	-	-	-	-1,629	-	-	-	-	-137
International Aviation Bunkers	-	-	-	-1,974	-	-	-1,974	-	-
Stock Changes	-22	-	730	36	119	-38	-	1	-61
Total Primary Energy Supply	36,990	2	42,648	-1,057	-2,618	10,954	-3,054	1	-7,877
Transfers	-	-	-	-949	-60	1,209	-47	-0	-120
Total Transformation Sector	-30,577	2,454	-42,627	40,474	10,352	3,204	3,377	-	12,488
Main Activity Producer	-19,800	-	-	-1,753	-	-	-	-	-48
Autoproducers	-5,383	-757	-	-801	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-42,627	43,028	10,352	3,204	3,377	-	12,536
Coal Transformation	-5,394	3,211	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-1,009	-	-1,603	-2	-	-	-0	-27
Discrepancy	-1,007	90	-21	360	54	-274	-58	4	194
Total Final Energy Consumption	5,406	1,538	-	37,225	7,725	15,092	218	6	4,657
Industry Sector	5,406	1,538	-	3,413	18	-	-	0	128
Iron and Steel	254	1,303	-	381	0	-	-	-	6
Chemical & Petrochemical	3,269	184	-	1,352	0	-	-	-	68
Non-metallic Minerals	1,450	-	-	334	0	-	-	-	18
Other Industries	435	50	-	1,345	17	-	-	0	35
Transport Sector	-	-	-	11,921	7,673	-	86	-	3,916
Domestic Air Transport	-	-	-	86	-	-	86	-	-
Road	-	-	-	11,555	7,673	-	-	-	3,797
Rail	-	-	-	27	-	-	-	-	27
Inland Waterways	-	-	-	253	-	-	-	-	93
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,447	34	-	132	6	613
Residential	-	-	-	1,168	-	-	-	-	-
Commerce and Public Services	-	-	-	975	34	-	132	6	334
Agriculture	-	-	-	4	0	-	-	0	0
Non-specified Others	-	-	-	300	-	-	-	-	279
Non-energy	-	-	-	19,443	-	15,092	-	-	-
2010									
Indigenous Production	-	-	13	-	-	-	-	-	-
Import	38,977	129	46,059	18,569	-	13,016	-	-	-
Export	-	-78	-	-15,763	-3,859	-	-1,542	-	-8,638
International Marine Bunkers	-	-	-	-1,780	-	-	-	-	-149
International Aviation Bunkers	-	-	-	-1,979	-	-	-1,979	-	-
Stock Changes	158	-	-157	-82	-69	-138	-	0	114
Total Primary Energy Supply	39,134	51	45,915	-1,035	-3,928	12,878	-3,521	0	-8,673
Transfers	-	-	-	-1,077	-77	1,130	-83	-3	-78
Total Transformation Sector	-33,582	2,523	-46,059	44,012	11,599	3,739	3,826	-	13,263
Main Activity Producer	-22,047	-	-	-1,969	-	-	-	-	-57
Autoproducers	-6,011	-642	-	-1,021	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-46,059	47,002	11,599	3,739	3,826	-	13,320
Coal Transformation	-5,524	3,165	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-962	-	-1,804	-2	-	-0	-0	-29
Discrepancy	-293	44	144	75	36	0	-5	9	96
Total Final Energy Consumption	5,259	1,656	-	40,170	7,628	17,747	217	7	4,580
Industry Sector	5,259	1,656	-	3,869	7	-	-	0	129
Iron and Steel	51	1,360	-	420	0	-	-	-	6
Chemical & Petrochemical	3,475	204	-	1,534	0	-	-	-	70
Non-metallic Minerals	1,336	-	-	354	0	-	-	-	18
Other Industries	398	92	-	1,561	6	-	-	0	34
Transport Sector	-	-	-	11,754	7,583	-	77	-	3,828
Domestic Air Transport	-	-	-	77	-	-	77	-	-
Road	-	-	-	11,379	7,583	-	-	-	3,708
Rail	-	-	-	27	-	-	-	-	27
Inland Waterways	-	-	-	271	-	-	-	-	94
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,526	38	-	140	7	623
Residential	-	-	-	1,186	-	-	-	-	-
Commerce and Public Services	-	-	-	1,035	38	-	140	7	339
Agriculture	-	-	-	4	0	-	-	0	0
Non-specified Others	-	-	-	301	-	-	-	-	283
Non-energy	-	-	-	22,021	-	17,747	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	264	594	10,976	237	1,702	-	-	13,782
1,359	1,348	-	-	2,070	15,260	-	-	-	-	-	-	110,117
-925	-37	-	-	-802	-	-	-	-	-	-	-	-13,426
-1,491	-	-	-	-0	-	-	-	-	-	-	-	-1,629
-	-	-	-	-	-	-	-	-	-	-	-	-1,974
57	-42	-	-	-	8	-	-	-	-	-	-	752
-1,000	1,269	-	-	1,268	15,532	594	10,976	237	1,702	-	-	107,622
-1,731	67	-	-	-265	-	-	-	-	-	-	-	-949
6,187	1,315	1,268	-	2,284	-11,959	-594	-10,976	-	-1,702	21,687	-	-33,819
-1,706	-	-	-	-	-11,202	-594	-10,976	-	-	18,472	-	-25,853
-468	-	-15	-	-318	-92	-	-	-	-1,702	3,215	-	-5,520
-	-	-	-	-	-665	-	-	-	-	-	-	-665
8,360	1,315	1,282	-	2,602	-	-	-	-	-	-	-	401
-	-	-	-	-	-	-	-	-	-	-	-	-2,183
-	-	-	-	-	-	-	-	-	-	-	-	-
-259	-47	-1,268	-	-	-702	-	-	-0	-	-1,816	-	-5,129
276	-1	-	-	164	-493	-	-	-135	-	-693	-	-1,898
3,473	2,603	-	-	3,450	2,378	-	-	102	-	19,178	-	65,827
2,890	365	-	-	13	1,218	-	-	-	-	10,989	-	22,564
353	9	-	-	13	240	-	-	-	-	1,345	-	3,523
1,059	225	-	-	-	287	-	-	-	-	3,198	-	8,291
307	9	-	-	-	187	-	-	-	-	490	-	2,460
1,171	121	-	-	-	505	-	-	-	-	5,956	-	8,290
160	85	-	-	-	-	-	-	-	-	103	-	12,025
-	-	-	-	-	-	-	-	-	-	-	-	86
-	85	-	-	-	-	-	-	-	-	-	-	11,555
-	-	-	-	-	-	-	-	-	-	103	-	131
160	-	-	-	-	-	-	-	-	-	-	-	253
-	-	-	-	-	-	-	-	-	-	-	-	-
422	1,240	-	-	-	1,160	-	-	102	-	8,086	-	11,795
-	1,168	-	-	-	737	-	-	102	-	3,820	-	5,827
398	72	-	-	-	423	-	-	-	-	4,032	-	5,430
3	0	-	-	-	-	-	-	-	-	154	-	158
21	-	-	-	-	-	-	-	-	-	80	-	380
-	913	-	-	3,438	-	-	-	-	-	-	-	19,443
-	-	-	-	-	237	626	10,848	193	1,708	-	-	13,625
2,301	1,082	-	-	2,171	13,866	-	-	-	-	-	-	117,600
-729	-111	-	-	-883	-	-	-	-	-	-	-	-15,841
-1,630	-	-	-	-2	-	-	-	-	-	-	-	-1,780
-	-	-	-	-	-	-	-	-	-	-	-	-1,979
-12	22	-	-	-	-20	-	-	-	-	-	-	-101
-70	992	-	-	1,286	14,082	626	10,848	193	1,708	-	-	111,523
-1,770	-16	-	-	-180	-	-	-	-	-	-	-	-1,077
6,320	1,609	1,349	-	2,307	-11,539	-624	-10,848	-89	-1,708	21,245	-	-36,670
-1,912	-	-	-	-	-10,361	-624	-10,848	-87	-	17,965	-	-27,971
-544	-	-18	-	-459	-111	-	-	-2	-1,708	3,280	-	-6,216
-	-	-	-	-	-1,067	-	-	-	-	-	-	-1,067
8,777	1,609	1,367	-	2,766	-	-	-	-	-	-	-	943
-	-	-	-	-	-	-	-	-	-	-	-	-2,359
-	-	-	-	-	-	-	-	-	-	-	-	-
-373	-51	-1,349	-	-	-545	-3	-	-0	-	-1,821	-	-5,135
-219	-5	0	-	162	126	1	-	-1	-	-646	-	-551
3,889	2,528	-	-	3,574	2,124	-	-	103	-	18,777	-	68,090
3,263	458	-	-	13	1,014	-	-	-	-	10,677	-	22,476
390	11	-	-	13	209	-	-	-	-	1,281	-	3,321
1,164	300	-	-	-	268	-	-	-	-	3,279	-	8,761
323	13	-	-	-	150	-	-	-	-	438	-	2,278
1,386	134	-	-	-	386	-	-	-	-	5,679	-	8,117
177	88	-	-	-	-	-	-	-	-	100	-	11,854
-	-	-	-	-	-	-	-	-	-	-	-	77
-	88	-	-	-	-	-	-	-	-	-	-	11,379
-	-	-	-	-	-	-	-	-	-	100	-	127
177	-	-	-	-	-	-	-	-	-	-	-	271
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
449	1,270	-	-	-	1,110	-	-	103	-	8,000	-	11,739
-	1,186	-	-	-	695	-	-	103	-	3,735	-	5,719
428	84	-	-	-	415	-	-	-	-	4,040	-	5,490
3	0	-	-	-	-	-	-	-	-	148	-	152
17	-	-	-	-	-	-	-	-	-	77	-	378
-	712	-	-	3,562	-	-	-	-	-	-	-	22,021

Major Energy Indicators of Chinese Taipei

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	45,477	78,981	104,593	112,426	107,218	104,568	111,523	107,622
Indigenous Production	10,748	11,476	13,152	14,249	13,727	13,801	13,625	13,782
Import	39,723	78,713	111,997	119,902	115,530	111,855	117,600	110,117
Export	-335	-2,294	-15,590	-17,787	-17,452	-18,733	-15,841	-13,426
Final Energy Consumption	29,302	53,558	62,206	67,848	64,332	63,990	68,090	65,827
Industry	15,667	29,393	23,798	22,903	21,209	19,978	22,476	22,564
Transport	6,735	12,165	12,657	12,148	11,521	11,480	11,854	12,025
Residential	2,904	4,802	6,140	5,906	5,837	5,686	5,719	5,827
Commerce & Public Services	2,259	3,999	4,882	5,444	5,451	5,348	5,490	5,430
Others	1,736	3,199	14,730	21,446	20,315	21,499	22,550	19,982
Coal, Coal Products								
Primary Energy Supply	10,562	27,493	39,183	40,293	38,729	36,916	39,186	36,992
Indigenous Production	278	49	-	-	-	-	-	-
Import	11,389	27,911	39,715	40,457	39,513	36,090	39,106	37,081
Export	-0	-	-	-7	-59	-25	-78	-66
Transformation Sector	-	-	-30,217	-31,870	-31,132	-30,601	-31,059	-28,123
Power Generation	-5,145	-19,428	-28,585	-30,690	-29,649	-28,817	-28,700	-25,940
Final Energy Consumption	5,903	8,391	6,706	6,589	6,240	5,926	6,915	6,944
Industry	5,897	8,339	6,706	6,589	6,240	5,926	6,915	6,944
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	6	52	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	20,512	36,188	54,303	52,202	47,241	50,008	45,915	42,648
Indigenous Production	156	32	29	16	14	14	13	10
Import	21,105	36,876	54,576	51,955	47,865	49,643	46,059	41,908
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-54,431	-52,049	-47,351	-50,159	-46,059	-42,627
Petroleum Refineries	-20,512	-36,188	-54,431	-52,049	-47,351	-50,159	-46,059	-42,627
Petroleum Products								
Primary Energy Supply	3,406	-1,093	-12,004	-5,906	-4,846	-7,143	-1,035	-1,057
Import	6,467	8,757	7,864	16,007	15,679	15,059	18,569	15,869
Export	-335	-2,294	-15,590	-17,779	-17,393	-18,708	-15,763	-13,360
Transformation Sector	-	-	50,566	49,644	51,042	47,657	44,012	40,474
Power Generation	-4,825	-6,171	-3,882	-3,954	-3,609	-2,463	-2,990	-2,555
Petroleum Refineries	19,184	39,502	54,448	53,598	54,651	50,121	47,002	43,028
Final Energy Consumption	16,106	29,907	36,692	40,824	37,889	38,789	40,170	37,225
Industry	5,803	12,868	7,319	5,120	4,030	3,798	3,869	3,413
Transport	6,698	12,071	12,542	12,076	11,427	11,385	11,754	11,921
Residential	1,094	1,266	1,304	1,256	1,236	1,225	1,186	1,168
Commerce & Public Services	973	830	1,012	1,150	1,105	1,104	1,035	975
Others	1,538	2,872	14,516	21,221	20,091	21,276	22,325	19,747
Natural Gas								
Primary Energy Supply	1,728	5,596	10,476	11,886	12,700	11,280	14,082	15,532
Indigenous Production	1,045	598	487	371	318	281	237	264
Import	762	5,169	9,842	11,393	12,473	11,062	13,866	15,260
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-8,113	-9,317	-10,200	-9,523	-11,539	-11,959
Power Generation	-241	-3,393	-7,518	-8,575	-9,434	-8,100	-10,472	-11,294
Final Energy Consumption	926	1,490	1,986	2,051	2,036	1,833	2,124	2,378
Industry	392	682	862	929	871	820	1,014	1,218
Transport	-	-	-	-	-	-	-	-
Residential	400	565	844	847	831	655	695	737
Commerce & Public Services	81	162	280	275	334	358	415	423
Others	53	81	-	-0	-	-	-	-
Electricity								
Power Generation	7,481	15,897	19,561	20,908	20,541	19,753	21,245	21,687
Thermal	3,922	11,790	13,957	14,184	14,342	13,634	15,208	15,733
Hydro	704	763	680	718	687	607	624	594
Nuclear	2,855	3,345	3,472	3,522	3,546	3,611	3,616	3,659
Others	-	-	1,451	2,484	1,965	1,902	1,797	1,702
Final Energy Consumption	6,367	13,770	16,734	18,289	18,069	17,341	18,777	19,178
Industry	3,575	7,504	8,911	10,265	10,068	9,434	10,677	10,989
Transport	37	94	115	71	95	95	100	103
Residential	1,410	2,971	3,905	3,709	3,671	3,704	3,735	3,820
Commerce & Public Services	1,206	3,008	3,589	4,019	4,012	3,886	4,040	4,032
Others	139	195	214	225	224	222	225	234

Major Economic Indicators of Chinese Taipei

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	20.40	22.28	22.77	22.96	23.04	23.12	23.16	23.22
Gross Domestic Product *2								
Real Term (Billions of 2000 Price and 2000 USD)	168.70	308.78	368.47	411.74	414.75	407.24	450.91	469.06
Real Term (Billions of 2000 Price and 2000 PPP)	258.05	472.32	563.61	629.80	634.40	622.92	689.71	717.48
Nominal (Billions of Current USD)	163.41	308.78	357.39	397.94	384.06	389.67	448.31	453.78
GDP per Capita *2								
Real Term (2000 Price and 2000 USD)	8,269	13,861	16,182	17,934	18,004	17,614	19,468	20,197
Real Term (2000 Price and 2000 PPP)	12,649	21,202	24,752	27,432	27,538	26,943	29,778	30,893
Nominal (Current USD)	8,010	13,861	15,695	17,333	16,671	16,854	19,355	19,539
Nominal GDP & its Components (Billions of Current TWD) *1								
Gross Domestic Product	4,430.06	10,187.39	11,740.28	12,910.51	12,620.15	12,481.09	13,614.22	13,745.01
Private Consumption, etc.	2,388.85	5,987.73	7,090.74	7,506.47	7,610.00	7,573.58	7,902.46	8,199.88
General Government Consumption	769.31	1,362.91	1,463.23	1,521.10	1,563.63	1,620.00	1,644.56	1,695.35
Fixed Investment	1,048.75	2,524.44	2,635.45	2,841.35	2,665.93	2,353.58	2,960.21	2,889.03
Stock Change	30.68	91.20	32.40	14.46	160.38	-145.18	144.38	16.21
Exports of Goods & NF Services	2,025.42	5,392.44	7,341.71	9,304.06	9,208.65	7,799.17	10,010.10	10,418.61
Imports of Goods & NF Services	1,832.95	5,171.33	6,823.25	8,276.93	8,588.44	6,720.05	9,047.50	9,474.07
Real GDP & its Components (Billions of 2001 TWD) *1								
Gross Domestic Product	5,316.58	9,731.21	11,612.09	12,975.99	13,070.68	12,834.05	14,210.29	14,782.36
Private Consumption, etc.	3,150.89	6,149.54	7,141.82	7,399.43	7,330.49	7,386.06	7,657.43	7,885.05
General Government Consumption	1,080.76	1,437.46	1,479.82	1,499.97	1,512.36	1,573.01	1,582.21	1,611.68
Fixed Investment	1,371.51	2,812.74	2,728.70	2,745.80	2,406.52	2,135.82	2,648.21	2,545.18
Stock Change	39.53	107.49	34.22	12.87	134.44	-133.95	144.63	27.51
Exports of Goods & NF Services	2,221.05	5,355.03	7,473.09	9,120.88	9,200.04	8,401.71	10,549.34	11,027.15
Imports of Goods & NF Services	2,547.17	6,131.05	7,245.56	7,802.96	7,513.17	6,528.60	8,371.53	8,314.19
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.0	2.0	1.7	1.5	1.6	1.7	1.6	1.8
Industry	38.9	30.5	31.3	31.4	29.1	28.9	31.1	29.5
Services, etc.	57.0	67.5	67.1	67.1	69.3	69.3	67.2	68.8
Industrial Production Index (2006=100) *1	46.0	77.3	95.7	108.3	106.7	98.2	126.2	132.7
External Trade (Billions of Current USD) *1								
Exports	67.425	151.950	198.432	246.677	255.629	203.675	274.601	308.257
Imports, c.i.f.	54.786	140.732	182.614	219.252	240.448	174.371	251.236	281.438
Balance of Payments (Billions of Current USD) *1								
Trade Balance	14.807	13.672	12.803	28.805	20.325	32.544	29.006	31.643
Current Account	10.923	8.899	17.578	35.154	27.505	42.923	39.873	41.270
Overall Balance	-3.918	2.477	17.461	35.058	27.171	42.827	39.757	41.151
Foreign Exchange Rate (TWD/USD) *1	27.11	32.99	32.85	32.44	32.86	32.03	30.37	30.29
Purchasing Power Parity (TWD/International Dollar) *3	N.A.	21.5691	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (2006=100) *2	83.3	104.7	101.1	99.5	96.6	97.3	95.8	93.0
Wholesale Price Index (2006=100) *2	83.1	86.9	94.7	106.5	112.0	102.2	107.8	112.4
Consumer Price Index (2006=100) *2	74.5	96.1	99.4	101.8	105.4	104.5	105.5	107.0
Growth Rate (%) *2								
Real GDP	6.87	5.80	4.70	5.98	0.73	-1.81	10.72	4.03
Population	1.21	0.83	0.36	0.36	0.34	0.36	0.18	0.27
Price								
Wholesale Price Index	-0.6	1.8	0.6	6.5	5.2	-8.7	5.5	4.3
Consumer Price Index	4.1	1.3	2.3	1.8	3.5	-0.9	1.0	1.4

Source *1 : "Taiwan Statistics Data Book", Council for Economic Planning and Development (Chinese Taipei)

*2 : Calculated from *1 by the Coordinating Agency with IEA Energy Statistics

*3 : PPP in 2000 is estimated by IEA data.

Note

: N.A. means "not available"

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

: PPP means Purchasing Power Parity

Energy Price of Chinese Taipei in 2011

Currency Exchange Rate

	Local currency / USD	29.36
Currency Exchange Rate		
Local Currency Unit		NTD

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	292.19	Coking Coal			Coking Coal		
Anthracite	USD/ton	219.37	Anthracite			Anthracite		
Other bituminous coal	USD/ton	128.03	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	USD/ton	92.54	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	USD/ton	494.12	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	106.92	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD/ton	997.88	LPG	NTD/kg	27.86	LPG	NTD/kg	27.86
Naphtha	USD/ton	946.29	Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	NTD/L	28.92	Motor Gasoline	NTD/L	31.57
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene			Other Kerosene	NTD/L	41.50	Other Kerosene	NTD/L	41.50
Gas/Diesel Oil			Gas/Diesel Oil	NTD/L	27.42	Gas/Diesel Oil	NTD/L	28.80
Fuel Oil	USD/kL	741.40	Fuel Oil	NTD/L	20.65	Fuel Oil	NTD/L	20.65
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas	NTD/m ³	17.25	Natural Gas	NTD/m ³	18.44
Liquefied Natural Gas	USD/ton	683.46	Liquefied Natural Gas	NTD/m ³	19.00	Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity	NTD/kWh	2.60	Industrial	NTD/kWh	2.45
						Commercial	NTD/kWh	3.10
						Residential	NTD/kWh	2.10
						Others		
Other Energy Products			Other Energy Products			Other Energy Products		

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	
2011									
Indigenous Production	5,332	-	19,259	-	-	-	-	-	-
Import	3,035	7,464	41,814	2,076	-	-	9	-	49
Export	-3	-1	-1,808	-9,336	-728	-	-992	-88	-4,093
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-4,580	-	-	-4,580	-	-
Stock Changes	-	-	-	-2,201	-	-	-	-	-
Total Primary Energy Supply	8,364	7,462	59,265	-14,042	-728	-	-5,563	-88	-4,045
Transfers	-	-	-6,920	5,571	-	-	-	-	-
Total Transformation Sector	-7,153	-	-48,396	39,433	6,260	-	5,792	133	20,086
Main Activity Producer	-6,912	-	-	-450	-	-	-	-	-17
Autoproducers	-241	-	-	-7	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-49,324	39,890	6,260	-	5,792	133	20,103
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	928	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-12	-2,182	2,325	237	-22	-	-137	-33	642
Total Final Energy Consumption	1,199	5,280	6,273	31,199	5,511	-	92	12	16,683
Industry Sector	1,199	5,280	-	2,936	15	-	-	8	1,158
Iron and Steel	203	181	-	307	-	-	-	1	58
Chemical & Petrochemical	8	322	-	341	2	-	-	3	45
Non-metallic Minerals	922	3,653	-	231	1	-	-	1	90
Other Industries	67	1,125	-	2,058	12	-	-	3	964
Transport Sector	-	-	-	19,579	5,449	-	92	-	11,883
Domestic Air Transport	-	-	-	92	-	-	92	-	-
Road	-	-	-	18,188	5,449	-	-	-	11,656
Rail	-	-	-	79	-	-	-	-	79
Inland Waterways	-	-	-	1,219	-	-	-	-	148
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	6,825	47	-	-	4	3,642
Residential	-	-	-	2,040	-	-	-	4	-
Commerce and Public Services	-	-	-	1,090	-	-	-	-	-
Agriculture	-	-	-	3,694	47	-	-	0	3,642
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	6,273	1,859	-	-	-	-	-
2010									
Indigenous Production	4,586	-	17,128	-	-	-	-	-	-
Import	4,476	6,292	42,757	163	-	-	2	-	54
Export	-1	-13	-1,587	-10,423	-1,011	-	-1,159	-351	-4,800
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-3,628	-	-	-3,628	-	-
Stock Changes	-	-	-	541	-	-	-	-	-
Total Primary Energy Supply	9,062	6,279	58,297	-13,347	-1,011	-	-4,784	-351	-4,746
Transfers	-	-	-6,334	5,099	-	-	-	-	-
Total Transformation Sector	-6,820	-	-48,422	39,422	6,574	-	5,112	393	20,250
Main Activity Producer	-6,315	-	-	-258	-	-	-	-	-34
Autoproducers	-505	-	-	-5	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-49,224	39,684	6,574	-	5,112	393	20,284
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	802	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-957	365	1,989	-850	14	-	-68	-29	554
Total Final Energy Consumption	1,285	6,645	5,530	30,323	5,576	-	260	13	16,058
Industry Sector	1,285	6,645	-	2,817	15	-	-	8	985
Iron and Steel	109	273	-	304	0	-	-	0	33
Chemical & Petrochemical	13	1,600	-	400	2	-	-	3	78
Non-metallic Minerals	1,056	3,903	-	204	0	-	-	1	52
Other Industries	106	868	-	1,909	12	-	-	4	823
Transport Sector	-	-	-	19,576	5,513	-	260	-	11,623
Domestic Air Transport	-	-	-	260	-	-	260	-	-
Road	-	-	-	17,777	5,513	-	-	-	11,463
Rail	-	-	-	83	-	-	-	-	83
Inland Waterways	-	-	-	1,456	-	-	-	-	77
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	6,374	49	-	-	4	3,450
Residential	-	-	-	1,667	-	-	-	4	-
Commerce and Public Services	-	-	-	1,204	-	-	-	-	-
Agriculture	-	-	-	3,504	49	-	-	0	3,450
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	5,530	1,556	-	-	-	-	-

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
-	-	-	-	-	31,093	702	-	9	2,093	-	-	58,488
326	1,692	-	-	-	8,820	-	-	-	-	627	-	63,835
-3,416	-19	-	-	-	-	-	-	-	-	-139	-	-11,288
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-4,580
-	-2,201	-	-	-	-	-	-	-	-	-	-	-2,201
-3,090	-528	-	-	-	39,913	702	-	9	2,093	488	-	104,254
-	5,571	-	-	-	-	-	-	-	-	-	-	-1,349
5,294	1,867	-	-	-	-26,598	-702	-	-9	-2,093	13,719	-	-31,799
-433	-	-	-	-	-23,064	-702	-	-9	-	12,415	-	-18,722
-7	-	-	-	-	-3,534	-	-	-	-2,093	1,303	-	-4,572
-	-	-	-	-	-	-	-	-	-	-	-	-
5,734	1,867	-	-	-	-	-	-	-	-	-	-	-9,434
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	928
-	-	-	-	-	-4,449	-	-	-	-	-426	-	-4,875
-209	-4	-	-	-	-2,452	-	-	-	-	-967	-	-3,051
1,995	6,906	-	-	-	6,414	-	-	-	-	12,813	-	63,179
920	836	-	-	-	2,469	-	-	-	-	5,444	-	17,329
130	117	-	-	-	271	-	-	-	-	1,836	-	2,797
73	218	-	-	-	381	-	-	-	-	918	-	1,971
24	115	-	-	-	786	-	-	-	-	538	-	6,130
693	385	-	-	-	1,030	-	-	-	-	2,151	-	6,431
1,071	1,083	-	-	-	2,055	-	-	-	-	6	-	21,640
-	-	-	-	-	-	-	-	-	-	-	-	92
-	1,083	-	-	-	2,055	-	-	-	-	-	-	20,243
-	-	-	-	-	-	-	-	-	-	6	-	86
1,071	-	-	-	-	-	-	-	-	-	-	-	1,219
-	-	-	-	-	-	-	-	-	-	-	-	-
4	3,128	-	-	-	2	-	-	-	-	7,363	-	14,190
-	2,036	-	-	-	-	-	-	-	-	2,867	-	4,907
1	1,089	-	-	-	2	-	-	-	-	4,399	-	5,492
3	3	-	-	-	-	-	-	-	-	29	-	3,723
-	-	-	-	-	-	-	-	-	-	68	-	68
-	1,859	-	-	-	1,888	-	-	-	-	-	-	10,020
-	-	-	-	-	25,000	476	-	4	1,678	-	-	48,872
96	10	-	-	-	11,307	-	-	-	-	627	-	65,621
-3,072	-29	-	-	-	-	-	-	-	-	-139	-	-12,163
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-3,628
-	541	-	-	-	-	-	-	-	-	-	-	541
-2,976	522	-	-	-	36,307	476	-	4	1,678	488	-	99,243
-	5,099	-	-	-	-	-	-	-	-	-	-	-1,235
5,501	1,593	-	-	-	-24,983	-476	-	-4	-1,678	12,415	-	-30,546
-224	-	-	-	-	-22,510	-476	-	-4	-	12,415	-	-17,148
-5	-	-	-	-	-2,473	-	-	-	-1,678	-	-	-4,660
-	-	-	-	-	-	-	-	-	-	-	-	-
5,729	1,593	-	-	-	-	-	-	-	-	-	-	-9,540
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	802
-	-	-	-	-	-6,271	-	-	-	-	-523	-	-6,794
-239	-1,083	-	-	-	-0	-	-	0	-	433	-	980
2,285	6,132	-	-	-	5,053	-	-	-	-	12,813	-	61,648
903	906	-	-	-	2,191	-	-	-	-	5,444	-	18,381
144	127	-	-	-	249	-	-	-	-	1,836	-	2,771
81	236	-	-	-	820	-	-	-	-	918	-	3,751
26	125	-	-	-	767	-	-	-	-	538	-	6,470
653	418	-	-	-	354	-	-	-	-	2,151	-	5,389
1,379	801	-	-	-	1,612	-	-	-	-	6	-	21,194
-	-	-	-	-	-	-	-	-	-	-	-	260
-	801	-	-	-	1,612	-	-	-	-	-	-	19,389
-	-	-	-	-	-	-	-	-	-	6	-	89
1,379	-	-	-	-	-	-	-	-	-	-	-	1,456
-	-	-	-	-	-	-	-	-	-	-	-	-
3	2,868	-	-	-	1	-	-	-	-	7,363	-	13,738
-	1,663	-	-	-	-	-	-	-	-	2,867	-	4,534
1	1,203	-	-	-	1	-	-	-	-	4,399	-	5,604
2	2	-	-	-	-	-	-	-	-	29	-	3,532
-	-	-	-	-	-	-	-	-	-	68	-	68
-	1,556	-	-	-	1,250	-	-	-	-	-	-	8,336

Major Energy Indicators of Thailand

ktoe

	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	27,918	60,372	78,337	83,848	84,895	92,492	99,243	104,254
Indigenous Production	11,854	28,559	34,323	36,063	39,524	47,134	48,872	58,488
Import	18,968	40,086	57,234	59,183	59,879	62,352	65,621	63,835
Export	-791	-5,450	-9,024	-10,073	-11,646	-12,622	-12,163	-11,288
Final Energy Consumption	20,196	38,675	52,278	53,428	55,180	59,503	61,648	63,179
Industry	5,917	12,833	17,729	18,416	18,777	17,873	18,381	17,329
Transport	9,452	15,945	20,247	19,858	19,680	20,932	21,194	21,640
Residential	487	5,828	3,513	3,846	4,405	4,693	4,534	4,907
Commerce & Public Services	478	728	3,826	4,457	4,952	4,927	5,604	5,492
Others	3,863	3,341	6,963	6,852	7,366	11,078	11,936	13,811
Coal, Coal Products								
Primary Energy Supply	3,828	7,838	10,680	14,234	14,953	14,444	15,341	15,826
Indigenous Production	3,603	5,196	5,220	5,204	4,787	5,021	4,586	5,332
Import	220	2,655	5,461	9,030	10,119	10,269	10,768	10,499
Export	-	-	-	-	47	-17	-13	-4
Transformation Sector	-	-	-4,725	-6,948	-7,536	-7,249	-6,820	-7,153
Power Generation	-2,472	-4,204	-4,725	-6,948	-7,536	-7,249	-6,820	-7,153
Final Energy Consumption	1,357	3,660	6,827	6,918	7,459	7,187	7,929	6,479
Industry	1,356	3,660	6,827	6,918	7,459	7,187	7,929	6,479
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	0	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	12,220	39,400	52,006	54,783	53,555	58,010	58,297	59,265
Indigenous Production	2,112	5,159	12,348	14,069	15,182	16,188	17,128	19,259
Import	10,961	34,062	41,693	40,217	40,893	43,148	42,757	41,814
Export	-767	-514	-3,453	-2,724	-2,520	-2,261	-1,587	-1,808
Transformation Sector	-	-	-46,494	-48,197	-49,565	-49,252	-48,422	-48,396
Petroleum Refineries	-11,806	-38,169	-46,494	-48,197	-49,565	-49,252	-49,224	-49,324
Petroleum Products								
Primary Energy Supply	5,678	-7,243	-9,149	-10,273	-11,568	-14,256	-13,347	-14,042
Import	7,731	1,179	1,980	825	366	431	163	2,076
Export	-21	-4,919	-5,516	-6,552	-9,071	-10,209	-10,423	-9,336
Transformation Sector	-	-	34,166	36,391	38,003	39,929	39,422	39,433
Power Generation	-2,548	-2,344	-1,967	-908	-387	-308	-263	-457
Petroleum Refineries	11,490	32,193	36,365	37,299	38,678	40,238	39,684	39,890
Final Energy Consumption	15,246	24,420	29,951	29,255	29,785	30,747	30,323	31,199
Industry	2,753	4,335	4,032	3,981	3,880	3,467	2,817	2,936
Transport	9,452	15,939	20,192	19,645	19,011	19,647	19,576	19,579
Residential	487	908	1,310	1,435	1,930	2,081	1,667	2,040
Commerce & Public Services	477	728	570	771	810	876	1,204	1,090
Others	2,077	2,510	3,848	3,424	4,155	4,676	5,060	5,553
Natural Gas								
Primary Energy Supply	5,710	19,620	22,788	22,925	25,497	31,631	36,307	39,913
Indigenous Production	5,710	17,685	15,068	14,611	17,236	23,337	25,000	31,093
Import	-	1,935	7,720	8,314	8,261	8,294	11,307	8,820
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-21,185	-20,428	-22,293	-22,751	-24,983	-26,598
Power Generation	-4,216	-14,106	-21,185	-20,428	-22,293	-22,751	-24,983	-26,598
Final Energy Consumption	267	1,389	2,067	2,497	3,204	4,822	5,053	6,414
Industry	266	1,386	2,017	2,296	2,540	2,346	2,191	2,469
Transport	-	2	50	200	664	1,280	1,612	2,055
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	0	1	2
Others	0	-	-	-	-	1,196	1,250	1,888
Electricity								
Power Generation	3,799	8,254	11,369	12,331	12,679	12,754	12,415	13,719
Thermal	3,370	7,734	9,684	10,153	10,360	10,167	10,258	10,915
Hydro	428	518	499	698	612	615	476	702
Nuclear	-	-	-	-	-	-	-	-
Others	1	2	1,187	1,480	1,707	1,972	1,681	2,101
Final Energy Consumption	3,297	7,562	10,387	11,413	11,608	11,628	12,813	12,813
Industry	1,542	3,452	4,853	5,220	4,898	4,874	5,444	5,444
Transport	-	3	5	12	5	5	6	6
Residential	0	0	2,203	2,412	2,476	2,612	2,867	2,867
Commerce & Public Services	0	0	3,256	3,686	4,142	4,050	4,399	4,399
Others	1,755	4,107	70	83	87	87	97	97

Major Economic Indicators of Thailand

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	56.58	62.34	65.56	66.08	66.19	66.28	66.40	66.58
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	79.36	122.73	157.38	173.74	178.06	173.91	187.49	187.64
Real Term (Billions of 2000 Price and 2000 PPP)	199.15	307.97	394.95	436.00	446.83	436.42	470.51	470.87
Nominal (Billions of Current USD)	85.34	122.73	176.35	246.98	272.58	263.71	318.91	345.67
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	1,403	1,969	2,401	2,629	2,690	2,624	2,824	2,818
Real Term (2000 Price and 2000 PPP)	3,520	4,940	6,024	6,598	6,751	6,585	7,086	7,073
Nominal (Current USD)	1,508	1,969	2,690	3,738	4,118	3,979	4,803	5,192
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	2,183.54	4,922.73	7,092.89	8,525.20	9,080.47	9,041.55	10,104.82	10,540.13
Household Final Consumption Expenditure, etc.	1,234.98	2,762.93	4,060.41	4,555.20	4,999.61	4,993.30	5,429.68	5,742.85
General Government Final Consumption Expenditure	205.35	557.81	843.65	1,039.27	1,120.84	1,213.93	1,310.03	1,397.53
Gross Fixed Capital Formation	881.76	1,081.42	2,049.82	2,249.65	2,492.33	2,181.82	2,499.31	2,769.02
Stock Change	21.21	42.74	180.34	3.89	152.27	-261.32	121.38	37.45
Exports of Goods and Services	745.29	3,287.28	5,218.08	6,259.58	6,941.53	6,180.05	7,203.30	8,109.95
Imports of Goods and Services	909.46	2,862.31	5,297.47	5,544.49	6,708.78	5,226.53	6,452.51	7,631.79
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	1,945.37	3,008.40	3,858.02	4,259.03	4,364.83	4,263.14	4,596.11	4,599.66
Household Final Consumption Expenditure, etc.	1,110.93	1,623.72	2,109.34	2,214.42	2,278.62	2,252.70	2,361.23	2,392.72
General Government Final Consumption Expenditure	171.94	277.13	344.92	386.90	399.31	429.06	456.38	461.52
Gross Fixed Capital Formation	759.87	597.44	902.42	951.52	962.69	873.73	955.43	986.50
Stock Change	20.65	25.64	76.60	1.91	67.86	-102.58	37.10	7.47
Exports of Goods and Services	709.65	1,947.08	2,554.38	3,006.05	3,159.12	2,764.26	3,170.36	3,471.35
Imports of Goods and Services	806.98	1,497.67	2,155.98	2,326.65	2,532.90	1,988.55	2,416.31	2,747.35
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	13.6	10.3	9.0	8.7	8.8	9.2	8.3	8.6
Industry	37.8	44.4	46.9	47.5	47.9	46.6	48.7	46.8
Services, etc.	48.6	45.3	44.0	43.8	43.3	44.3	43.0	44.5
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.	23.068	69.057	110.936	153.867	177.778	152.422	193.306	222.576
Imports, c.i.f.	33.045	61.924	118.178	139.966	179.225	133.709	182.921	228.787
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-6.751	11.701	3.392	26.631	17.394	32.607	29.667	16.991
Current Account	-7.281	9.313	-7.647	15.678	2.211	21.891	9.946	5.918
Overall Balance	3.235	-1.806	5.417	17.077	24.440	24.131	31.246	1.191
Foreign Exchange Rate (THB/USD) *1	25.5855	40.1118	40.2201	34.5182	33.3133	34.2858	31.6857	30.4917
Purchasing Power Parity (THB/International Dollar) *1	13.4679	15.9842	15.9321	16.3308	16.6056	16.7814	17.1665	17.5195
Price Indices								
GDP Deflator (1988=100) *3	112.2	163.6	183.8	200.2	208.0	212.1	219.9	229.2
Wholesale Price Index (2005=100) *2	55.6	79.2	100.0	110.5	124.3	119.6	130.8	137.9
Consumer Price Index (2005=100) *2	57.5	89.4	100.0	107.0	112.8	111.8	115.5	119.9
Growth Rate (%) *3								
Real GDP	11.17	4.75	4.60	5.04	2.48	-2.33	7.81	0.08
Population	1.34	1.17	0.73	0.29	0.16	0.14	0.19	0.26
Price								
Wholesale Price Index	3.5	3.9	9.1	3.2	12.4	-3.8	9.4	5.5
Consumer Price Index	5.9	1.6	4.5	2.3	5.4	-0.9	3.3	3.8

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

3.20 United States of America

Energy Balance Table of United States of America

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2011									
Indigenous Production	536,369	-	360,803	116	-	-	-	-	-
Import	7,346	886	530,008	76,406	35,798	2,346	3,125	47	6,781
Export	-62,775	-606	-12,823	-129,142	-24,127	-	-5,273	-523	-43,252
International Marine Bunkers	-	-	-	-26,390	-	-	-	-	-8,519
International Aviation Bunkers	-	-	-	-21,840	-	-	-21,840	-	-
Stock Changes	-2,184	-27	5,016	2,616	-360	-49	311	-20	1,719
Total Primary Energy Supply	478,756	253	883,005	-98,233	11,311	2,297	-23,677	-496	-43,271
Transfers	-	-	-47,802	49,848	1,484	-	-490	17	420
Total Transformation Sector	-452,108	3,785	-826,537	882,931	403,058	10,064	72,783	707	227,782
Main Activity Producer	-432,163	-212	-	-7,014	-	-	-99	-54	-1,503
Autoproducers	-2,926	-907	-	-318	-	-	-2	-	-37
Gas Processing	-1,932	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-850,058	890,264	403,058	10,064	72,885	762	229,321
Coal Transformation	-15,087	4,904	-	-	-	-	-	-	-
Other Transformation	-	-	23,521	-	-	-	-	-	-
Loss & Own Use	-145	-1,586	-	-46,732	-5	-	-3	-	-91
Discrepancy	-7,490	-0	-7,021	-520	-7	-3	-1	-2	44
Total Final Energy Consumption	19,013	2,452	1,644	787,294	415,841	12,358	48,612	226	184,884
Industry Sector	17,713	2,452	27	30,432	3,928	-	-	28	21,404
Iron and Steel	-	1,576	-	906	-	-	-	-	630
Chemical & Petrochemical	3,964	-	-	8,212	-	-	-	-	6,221
Non-metallic Minerals	4,910	-	3	4,568	-	-	-	-	4,443
Other Industries	8,839	876	24	16,745	3,928	-	-	28	10,110
Transport Sector	-	-	14	587,993	408,434	-	48,612	-	130,451
Domestic Air Transport	-	-	-	49,257	645	-	48,612	-	-
Road	-	-	14	522,202	403,849	-	-	-	117,936
Rail	-	-	-	11,653	-	-	-	-	11,653
Inland Waterways	-	-	-	4,019	3,940	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	861	-	-	-	-	861
Other Sector	1,300	-	335	48,011	3,479	-	-	198	33,029
Residential	-	-	253	19,500	-	-	-	165	12,091
Commerce and Public Services	1,300	-	45	14,188	1,102	-	-	28	10,064
Agriculture	-	-	37	14,323	2,376	-	-	4	10,874
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	1,267	120,858	-	12,358	-	-	-
2010									
Indigenous Production	531,848	-	346,751	89	-	-	-	-	-
Import	10,682	758	539,957	83,348	37,843	2,274	3,921	97	8,784
Export	-47,327	-914	-9,307	-105,624	-15,535	-	-4,795	-77	-33,173
International Marine Bunkers	-	-	-	-26,011	-	-	-	-	-5,671
International Aviation Bunkers	-	-	-	-21,817	-	-	-21,817	-	-
Stock Changes	7,549	46	-1,611	160	256	-23	-158	24	540
Total Primary Energy Supply	502,751	-110	875,790	-69,856	22,563	2,252	-22,849	44	-29,519
Transfers	-	-	-42,912	44,737	1,323	-	-484	89	253
Total Transformation Sector	-479,228	3,524	-818,815	869,893	401,491	10,139	71,924	789	213,323
Main Activity Producer	-458,840	-304	-	-8,986	-	-	-104	-53	-1,880
Autoproducers	-3,638	-754	-	-362	-	-	-12	-	-51
Gas Processing	-1,919	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-841,376	879,241	401,491	10,139	72,040	842	215,254
Coal Transformation	-14,831	4,582	-	-	-	-	-	-	-
Other Transformation	-	-	22,561	-	-	-	-	-	-
Loss & Own Use	-195	-1,379	-	-47,288	-9	-	-33	-	-162
Discrepancy	-2,165	-0	-10,456	-554	-5	-3	3	-1	-110
Total Final Energy Consumption	21,164	2,035	3,607	796,931	425,362	12,387	48,562	921	183,786
Industry Sector	19,656	2,035	60	30,209	3,797	-	-	143	21,338
Iron and Steel	-	1,260	1	897	-	-	-	-	628
Chemical & Petrochemical	4,276	-	-	8,136	-	-	-	-	6,202
Non-metallic Minerals	5,121	-	7	4,552	-	-	-	-	4,430
Other Industries	10,259	776	53	16,625	3,797	-	-	143	10,078
Transport Sector	-	-	32	594,075	418,789	-	48,562	-	126,242
Domestic Air Transport	-	-	-	49,200	639	-	48,562	-	-
Road	-	-	32	531,915	414,688	-	-	-	116,817
Rail	-	-	-	8,597	-	-	-	-	8,597
Inland Waterways	-	-	-	3,534	3,463	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	828	-	-	-	-	828
Other Sector	1,509	-	736	51,864	2,776	-	-	777	36,206
Residential	-	-	555	20,959	-	-	-	650	13,200
Commerce and Public Services	1,509	-	98	15,292	1,083	-	-	108	10,155
Agriculture	-	-	82	15,613	1,693	-	-	20	12,851
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	2,779	120,784	-	12,387	-	-	-

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Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	116	531,056	29,642	214,058	28,170	93,064	-	-	1,793,278
19,313	1,252	-	8	7,736	80,618	-	-	-	406	4,498	-	700,168
-23,050	-	-	-	-32,916	-34,654	-	-	-	-2,445	-1,293	-	-243,737
-17,871	-	-	-	-	-	-	-	-	-	-	-	-26,390
-	-	-	-	-	-	-	-	-	-	-	-	-21,840
1,460	-603	-	-118	276	-8,134	-	-	-	-229	-	-	-2,941
-20,147	648	-	-110	-24,788	568,886	29,642	214,058	28,170	90,797	3,205	-	2,198,539
390	23,761	-	23,435	831	-	-	-	-	-	-	-	2,046
26,163	23,055	39,039	500	79,780	-188,588	-29,642	-214,058	-26,507	-45,699	373,767	12,149	-510,508
-2,135	-	-	-	-3,224	-175,396	-29,484	-214,058	-26,130	-13,850	359,614	12,149	-526,546
-57	-	-	-	-223	-14,382	-158	-	-377	-6,812	14,153	-	-11,726
-	-	-	-	-	1,189	-	-	-	-	-	-	-743
28,354	23,055	39,039	500	83,226	-	-	-	-	-	-	-	40,206
-	-	-	-	-	-	-	-	-	-	-	-	-10,183
-	-	-	-	-	-	-	-	-	-25,036	-	-	-1,515
-133	-443	-34,395	-1	-11,661	-49,010	-	-	-	-	-51,042	-5,507	-154,022
-173	2	-	-0	-379	-4,405	0	-	-0	-1	-0	-	-19,438
6,100	47,024	4,643	23,825	43,782	326,883	-	-	1,662	45,098	325,929	6,642	1,516,617
4,306	766	-	-	-	118,753	-	-	106	31,963	77,279	5,248	283,973
264	12	-	-	-	9,084	-	-	-	-	6,732	193	18,491
1,991	-	-	-	-	35,122	-	-	-	208	21,276	3,216	71,998
41	84	-	-	-	12,587	-	-	-	440	3,556	4	26,069
2,009	670	-	-	-	61,960	-	-	106	31,315	45,715	1,835	167,414
80	417	-	-	-	16,596	-	-	-	-	660	-	605,263
-	-	-	-	-	-	-	-	-	-	-	-	49,257
-	417	-	-	-	747	-	-	-	-	-	-	522,964
-	-	-	-	-	-	-	-	-	-	660	-	12,313
80	-	-	-	-	-	-	-	-	-	-	-	4,019
-	-	-	-	-	15,848	-	-	-	-	-	-	15,848
-	-	-	-	-	-	-	-	-	-	-	-	861
1,715	9,591	-	-	-	181,447	-	-	1,557	13,135	247,991	1,394	495,168
-	7,244	-	-	-	109,261	-	-	1,473	10,771	122,361	-	263,619
1,715	1,279	-	-	-	72,185	-	-	83	2,021	114,213	1,394	205,428
-	1,069	-	-	-	-	-	-	-	343	-	-	14,704
-	-	-	-	-	-	-	-	-	-	11,417	-	11,417
-	36,250	4,643	23,825	43,782	10,088	-	-	-	-	-	-	132,213
-	-	-	-	89	494,781	24,625	218,625	25,441	90,180	-	-	1,732,340
21,269	1,351	-	9	7,798	86,852	-	-	-	79	3,877	-	725,553
-22,615	-	-	-	-29,430	-25,817	-	-	-	-987	-1,643	-	-191,619
-20,341	-	-	-	-	-	-	-	-	-	-	-	-26,011
-	-	-	-	-	-	-	-	-	-	-	-	-21,817
-479	76	-	-	-76	453	-	-	-	-199	-	-	6,399
-22,165	1,427	-	9	-21,619	556,269	24,625	218,625	25,441	89,073	2,234	-	2,224,843
462	20,651	-	21,513	930	-	-	-	-	-	-	-	1,826
29,102	24,555	38,820	506	79,245	-183,846	-24,625	-218,625	-23,831	-44,263	376,544	12,140	-531,131
-3,534	-	-	-	-3,415	-171,238	-24,471	-218,625	-23,603	-13,959	362,444	12,140	-545,441
-63	-	-	-	-236	-13,849	-153	-	-228	-6,290	14,100	-	-11,174
-	-	-	-	-	1,241	-	-	-	-	-	-	-677
32,699	24,555	38,820	506	82,895	-	-	-	-	-	-	-	37,865
-	-	-	-	-	-	-	-	-	-	-	-	-10,249
-	-	-	-	-	-	-	-	-	-24,014	-	-	-1,453
-183	-482	-34,902	-4	-11,514	-47,372	-	-	-	-	-51,813	-5,503	-153,550
-274	2	0	-	-167	2,214	0	-	0	-1	0	-	-10,962
6,941	46,153	3,919	22,025	46,876	327,266	-	-	1,610	44,810	326,965	6,637	1,531,026
4,179	751	-	-	-	118,718	-	-	106	32,190	75,630	5,244	283,848
256	12	-	-	-	9,080	-	-	-	-	6,589	193	18,019
1,934	-	-	-	-	35,112	-	-	-	199	20,822	3,214	71,758
40	81	-	-	-	12,584	-	-	-	517	3,480	4	26,265
1,948	657	-	-	-	61,942	-	-	106	31,474	44,739	1,834	167,807
71	410	-	-	-	16,306	-	-	-	-	663	-	611,076
-	-	-	-	-	-	-	-	-	-	-	-	49,200
-	410	-	-	-	665	-	-	-	-	-	-	532,613
-	-	-	-	-	-	-	-	-	-	663	-	9,260
71	-	-	-	-	-	-	-	-	-	-	-	3,534
-	-	-	-	-	15,641	-	-	-	-	-	-	15,641
-	-	-	-	-	-	-	-	-	-	-	-	828
2,691	9,414	-	-	-	182,156	-	-	1,505	12,620	250,672	1,393	502,454
-	7,109	-	-	-	110,963	-	-	1,421	10,053	124,331	-	268,282
2,691	1,255	-	-	-	71,193	-	-	83	2,194	114,386	1,393	206,148
-	1,049	-	-	-	-	-	-	-	373	-	-	16,069
-	-	-	-	-	-	-	-	-	-	11,955	-	11,955
-	35,578	3,919	22,025	46,876	10,085	-	-	-	-	-	-	133,648

Major Energy Indicators of United States of America

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	1990	2000	2005	2007	2008	2009	2010	2011
Total								
Primary Energy Supply	1,916,495	2,279,189	2,329,484	2,345,628	2,285,857	2,172,924	2,224,843	2,198,539
Indigenous Production	1,653,987	1,672,997	1,641,705	1,677,528	1,710,085	1,694,181	1,732,340	1,793,278
Import	452,509	702,062	841,978	840,972	801,473	722,689	725,553	700,168
Export	-110,606	-95,684	-105,877	-127,430	-165,636	-161,698	-191,619	-243,737
Final Energy Consumption	1,291,622	1,545,626	1,572,358	1,587,655	1,547,831	1,470,756	1,531,026	1,516,617
Industry	281,801	329,457	282,391	294,356	289,778	256,891	283,848	283,973
Transport	487,565	590,374	628,258	637,701	613,611	589,384	611,076	605,263
Residential	209,907	264,075	271,689	267,367	267,889	262,383	268,282	263,619
Commerce & Public Services	159,284	193,071	200,410	204,727	206,816	206,709	206,148	205,428
Others	153,065	168,649	189,610	183,503	169,736	155,389	161,672	158,334
Coal, Coal Products								
Primary Energy Supply	460,199	533,627	558,412	554,803	546,009	484,975	502,642	479,009
Indigenous Production	542,320	536,856	565,282	568,497	579,299	530,133	531,848	536,369
Import	2,119	10,014	19,598	22,208	21,096	12,757	11,440	8,232
Export	-67,987	-38,315	-29,460	-34,691	-48,222	-34,866	-48,241	-63,381
Transformation Sector	-406,761	-514,084	-512,196	-513,843	-509,281	-449,290	-475,704	-448,323
Power Generation	-391,176	-498,080	-503,961	-504,942	-496,203	-440,245	-463,536	-436,208
Final Energy Consumption	53,691	29,737	28,624	27,996	26,859	21,217	23,199	21,465
Industry	44,053	27,519	26,091	26,245	25,126	19,629	21,691	20,165
Transport	-	-	-	-	-	-	-	-
Residential	1,487	1,327	-	-	-	-	-	-
Commerce & Public Services	2,412	890	2,103	1,703	1,733	1,588	1,509	1,300
Others	5,739	-	430	48	-	-	-	-
Crude Oil								
Primary Energy Supply	783,541	887,052	911,612	910,922	890,956	861,020	875,790	883,005
Indigenous Production	432,544	365,606	322,545	317,456	312,913	335,502	346,751	360,803
Import	351,037	524,256	599,493	597,915	589,004	536,295	539,957	530,008
Export	-2,100	-6,151	-4,911	-5,830	-6,498	-8,420	-9,307	-12,823
Transformation Sector	-755,275	-838,485	-853,366	-853,968	-851,219	-806,566	-818,815	-826,537
Petroleum Refineries	-755,275	-841,472	-860,851	-867,073	-869,273	-827,056	-841,376	-850,058
Petroleum Products								
Primary Energy Supply	-26,699	-12,658	19,255	-7,583	-42,891	-59,921	-69,856	-98,233
Import	62,247	75,823	117,923	108,061	92,452	81,571	83,348	76,406
Export	-36,779	-44,383	-53,109	-65,725	-85,297	-91,652	-105,624	-129,142
Transformation Sector	726,214	819,580	844,674	867,569	880,106	835,774	869,893	882,931
Power Generation	-27,247	-29,565	-30,044	-16,230	-11,676	-9,787	-9,348	-7,332
Petroleum Refineries	753,816	849,145	874,719	883,798	891,783	845,562	879,241	890,264
Final Energy Consumption	683,288	798,743	855,741	852,104	810,187	770,340	796,931	787,294
Industry	44,253	25,661	35,150	31,129	31,693	27,626	30,209	30,432
Transport	471,796	574,812	613,448	621,921	597,251	574,101	594,075	587,993
Residential	26,368	31,906	28,784	25,144	23,080	21,990	20,959	19,500
Commerce & Public Services	21,308	16,656	16,696	14,534	13,677	15,751	15,292	14,188
Others	119,563	149,708	161,663	159,376	144,486	130,873	136,397	135,181
Natural Gas								
Primary Energy Supply	438,370	547,851	507,155	542,711	540,942	535,380	556,269	568,886
Indigenous Production	418,210	446,947	421,558	449,905	469,800	479,729	494,781	531,056
Import	35,170	87,781	100,874	107,228	92,333	87,033	86,852	80,618
Export	-1,976	-5,574	-16,694	-18,873	-22,096	-24,634	-25,817	-34,654
Transformation Sector	-88,608	-135,773	-153,459	-171,969	-167,115	-171,441	-183,846	-188,588
Power Generation	-89,762	-136,917	-154,656	-173,162	-168,292	-172,685	-185,087	-189,777
Final Energy Consumption	303,077	359,988	317,072	321,791	328,828	312,081	327,266	326,883
Industry	109,917	137,920	107,001	116,875	116,612	105,719	118,718	118,753
Transport	15,414	15,182	14,164	15,078	15,698	14,585	16,306	16,596
Residential	102,586	116,262	112,649	110,319	113,955	111,088	110,963	109,261
Commerce & Public Services	61,269	73,195	68,874	69,591	72,656	71,709	71,193	72,185
Others	13,890	17,429	14,384	9,929	9,906	8,981	10,085	10,088
Electricity								
Power Generation	276,801	348,529	369,316	374,086	375,670	360,186	376,544	373,767
Thermal	157,291	231,904	248,292	253,848	252,572	234,986	248,570	239,450
Hydro	24,851	24,079	25,622	23,697	24,252	25,663	24,625	29,642
Nuclear	53,127	69,295	70,425	72,676	72,777	72,118	72,875	71,353
Others	41,534	23,251	24,977	23,866	26,069	27,419	30,474	33,321
Final Energy Consumption	226,487	300,954	319,590	329,018	327,903	313,229	326,965	325,929
Industry	74,523	98,222	79,449	79,879	78,681	68,720	75,630	77,279
Transport	355	380	646	703	662	671	663	660
Residential	79,466	102,550	116,894	119,733	118,678	117,154	124,331	122,361
Commerce & Public Services	72,144	99,786	109,657	114,923	114,894	113,813	114,386	114,213
Others	-	15	12,945	13,780	14,987	12,870	11,955	11,417

Major Economic Indicators of United States of America

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	249.62	282.16	295.52	301.23	304.09	306.77	309.33	311.59
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	7,063.94	9,898.80	11,146.30	11,660.93	11,619.05	11,257.81	11,525.73	11,733.23
Real Term (Billions of 2000 Price and 2000 PPP)	7,063.94	9,898.80	11,146.30	11,660.93	11,619.05	11,257.81	11,525.73	11,733.23
Nominal (Billions of Current USD)	5,750.80	9,898.80	12,564.30	13,961.80	14,219.30	13,898.30	14,419.40	14,991.30
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	28,298	35,082	37,718	38,711	38,209	36,698	37,261	37,656
Real Term (2000 Price and 2000 PPP)	28,298	35,082	37,718	38,711	38,209	36,698	37,261	37,656
Nominal (Current USD)	23,038	35,082	42,516	46,349	46,760	45,305	46,616	48,113
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	5,750.80	9,898.80	12,564.30	13,961.80	14,219.30	13,898.30	14,419.40	14,991.30
Household Final Consumption Expenditure, etc.	3,835.40	6,830.40	8,803.50	9,772.20	10,035.50	9,845.90	10,215.70	10,729.00
General Government Final Consumption Expenditure	980.50	1,413.70	1,981.40	2,225.90	2,399.80	2,482.00	2,575.30	2,594.40
Gross Fixed Capital Formation	1,003.40	1,982.20	2,452.50	2,647.10	2,534.40	2,111.90	2,081.80	2,202.40
Stock Change	13.10	54.60	49.60	29.70	-40.80	-152.80	58.20	33.60
Exports of Goods and Services	552.10	1,093.20	1,305.10	1,661.70	1,846.80	1,587.40	1,844.40	2,094.20
Imports of Goods and Services	629.70	1,475.30	2,027.80	2,374.80	2,556.50	1,976.20	2,356.10	2,662.30
Real GDP & its Components (Billions of 2000 USD) *1								
Gross Domestic Product	7,962.60	11,158.10	12,564.30	13,144.40	13,097.20	12,690.00	12,992.00	13,225.90
Household Final Consumption Expenditure, etc.	5,273.00	7,606.90	8,803.50	9,262.10	9,213.50	9,039.80	9,202.70	9,430.00
General Government Final Consumption Expenditure	1,594.80	1,731.90	1,981.40	2,032.00	2,085.80	2,176.60	2,197.00	2,138.90
Gross Fixed Capital Formation	1,195.10	2,271.10	2,502.10	2,500.10	2,289.80	1,813.20	2,002.10	2,057.60
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	599.70	1,187.40	1,305.10	1,554.40	1,649.30	1,498.70	1,665.60	1,776.90
Imports of Goods and Services	672.60	1,638.70	2,027.80	2,203.20	2,144.00	1,853.80	2,085.20	2,184.90
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.9	1.1	1.1	0.9	1.0	1.2	1.1	0.9
Industry	22.9	22.2	20.7	20.4	19.4	18.5	18.9	18.9
Services, etc.	76.2	76.8	78.2	78.6	79.6	80.4	80.0	80.2
Industrial Production Index (2005=100) *2	64.9	96.5	100.0	105.0	101.5	91.6	94.5	98.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	393.592	781.918	901.082	1,148.199	1,287.442	1,056.043	1,278.263	1,480.432
Imports, c.i.f.	516.987	1,259.300	1,732.706	2,020.403	2,169.487	1,605.296	1,969.184	2,265.894
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-110.262	-443.865	-779.911	-814.640	-824.949	-502.344	-641.426	-734.903
Current Account	-78.952	-416.343	-745.778	-710.299	-677.140	-381.896	-441.955	-465.923
Overall Balance	2.233	0.295	-14.100	0.125	4.837	52.183	1.824	15.983
Foreign Exchange Rate (USD/USD) *1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Purchasing Power Parity (USD/International Dollar) *1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Price Indices								
GDP Deflator (2005=100) *3	72.2	88.7	100.0	106.2	108.6	109.5	111.0	113.3
Wholesale Price Index (2005=100) *2	73.9	84.3	100.0	109.7	120.5	109.9	117.4	127.7
Consumer Price Index (2005=100) *2	66.9	88.2	100.0	106.2	110.2	109.9	111.7	115.2
Growth Rate (%) *3								
Real GDP	1.86	4.17	3.08	1.91	-0.36	-3.11	2.38	1.80
Population	1.14	1.12	0.93	0.96	0.95	0.88	0.83	0.73
Price								
Wholesale Price Index	3.6	5.8	7.3	4.8	9.8	-8.8	6.8	8.8
Consumer Price Index	5.4	3.4	3.4	2.9	3.8	-0.4	1.6	3.2

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	
2010									
Indigenous Production	24,646	-	16,053	-	-	-	-	-	-
Import	576	79	-	12,703	2,066	0	858	33	5,013
Export	-11,031	-72	-8,121	-1,531	-258	-	-52	-27	-989
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	532	-	-499	1,597	473	-	-	84	694
Total Primary Energy Supply	14,723	7	7,434	12,769	2,281	0	806	91	4,718
Transfers	-	-	-817	817	-	-	-	-	-
Total Transformation Sector	-4,837	-	-5,606	4,545	2,446	-	40	-	2,465
Main Activity Producer	-4,720	-	-	-632	-	-	-	-	-259
Autoproducers	-117	-	-	-529	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,606	5,706	2,446	-	40	-	2,723
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-1,011	-	-	-	-	-	-
Discrepancy	-0	-0	-0	0	0	-0	-	-1	-0
Total Final Energy Consumption	9,886	7	-	18,131	4,727	0	847	90	7,182
Industry Sector	8,298	7	-	2,127	-	-	-	12	1,175
Iron and Steel	350	7	-	85	-	-	-	0	55
Chemical & Petrochemical	182	-	-	97	-	-	-	1	64
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	7,766	-	-	1,945	-	-	-	12	1,056
Transport Sector	-	-	-	11,164	4,598	-	847	-	5,323
Domestic Air Transport	-	-	-	847	-	-	847	-	-
Road	-	-	-	9,921	4,598	-	-	-	5,323
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	396	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	1,588	-	-	2,084	129	-	-	78	683
Residential	1,204	-	-	874	-	-	-	62	41
Commerce and Public Services	364	-	-	704	-	-	-	15	265
Agriculture	20	-	-	507	129	-	-	-	377
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	2,756	-	0	-	-	-
2009									
Indigenous Production	24,480	-	17,317	-	-	-	-	-	-
Import	448	60	-	14,806	3,818	3	677	58	6,601
Export	-13,995	-0	-13,614	-1,813	-279	-	-330	-35	-772
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	1,652	-	-1,008	1,266	-	-	206	83	660
Total Primary Energy Supply	12,585	60	2,696	14,259	3,539	3	553	106	6,489
Transfers	-	-	-724	724	-	-	-	-	-
Total Transformation Sector	-3,680	-	-1,972	868	708	-	84	-	539
Main Activity Producer	-3,560	-	-	-266	-	-	-	-	-22
Autoproducers	-119	-	-	-380	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-1,972	1,515	708	-	84	-	561
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	0	-	-0	-0	-0	-	-	0	-0
Total Final Energy Consumption	8,906	60	-	15,851	4,247	3	636	106	7,027
Industry Sector	7,446	60	-	2,146	-	-	-	9	1,167
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	7,446	60	-	2,146	-	-	-	9	1,167
Transport Sector	-	-	-	10,274	4,116	-	636	-	5,163
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	10,274	4,116	-	636	-	5,163
Other Sector	1,460	-	-	2,017	131	-	-	96	697
Residential	1,089	-	-	816	-	-	-	71	46
Commerce and Public Services	350	-	-	683	-	-	-	26	274
Agriculture	21	-	-	518	131	-	-	-	378
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	1,414	-	3	-	-	-

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
-	-	-	-	-	8,123	2,455	-	-	-	-	-	51,277
1,762	767	-	-	2,203	-	-	-	-	-	482	-	13,840
-205	-	-	-	-0	-	-	-	-	-	-83	-	-20,838
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
347	-	-	-	-	-	-	-	-	-	-	-	1,630
1,904	767	-	-	2,202	8,123	2,455	-	-	-	399	-	45,910
-	264	-	-	553	-	-	-	-	-	-	-	-
-756	350	-	-	-	-7,631	-2,455	-	-	-	8,215	-	-7,769
-373	-	-	-	-	-7,378	-2,455	-	-	-	7,947	-	-7,238
-529	-	-	-	-	-253	-	-	-	-	268	-	-631
-	-	-	-	-	-	-	-	-	-	-	-	-
146	350	-	-	-	-	-	-	-	-	-	-	100
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-1,085	-	-2,095
0	-0	-	-	0	0	-	-	-	-	-53	-	-53
1,148	1,381	-	-	2,756	493	-	-	-	-	7,476	-	35,992
727	213	-	-	-	493	-	-	-	-	4,000	-	14,926
26	4	-	-	-	20	-	-	-	-	287	-	749
29	3	-	-	-	202	-	-	-	-	254	-	734
-	-	-	-	-	-	-	-	-	-	-	-	-
673	205	-	-	-	271	-	-	-	-	3,460	-	13,443
396	-	-	-	-	-	-	-	-	-	-	-	11,164
-	-	-	-	-	-	-	-	-	-	-	-	847
-	-	-	-	-	-	-	-	-	-	-	-	9,921
-	-	-	-	-	-	-	-	-	-	-	-	-
396	-	-	-	-	-	-	-	-	-	-	-	396
-	-	-	-	-	-	-	-	-	-	-	-	-
25	1,169	-	-	-	-	-	-	-	-	3,475	-	7,147
5	766	-	-	-	-	-	-	-	-	2,709	-	4,786
20	403	-	-	-	-	-	-	-	-	685	-	1,753
-	-	-	-	-	-	-	-	-	-	81	-	607
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	2,756	-	-	-	-	-	-	-	2,756
-	-	-	-	-	7,101	2,578	-	-	-	-	-	51,477
1,838	843	-	-	968	-	-	-	-	-	353	-	15,667
-397	-	-	-	-0	-	-	-	-	-	-32	-	-29,454
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
317	-	-	-	-	-	-	-	-	-	-	-	1,910
1,758	843	-	-	968	7,101	2,578	-	-	-	321	-	39,600
-	281	-	-	443	-	-	-	-	-	-	-	0
-587	125	-	-	-	-6,462	-2,578	-	-	-	6,837	-	-6,987
-243	-	-	-	-	-6,243	-2,578	-	-	-	6,622	-	-6,026
-380	-	-	-	-	-219	-	-	-	-	215	-	-504
-	-	-	-	-	-	-	-	-	-	-	-	-
37	125	-	-	-	-	-	-	-	-	-	-	-458
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-769	-	-769
-0	0	-	-	-0	0	-	-	-	-	227	-	227
1,171	1,249	-	-	1,411	639	-	-	-	-	6,616	-	32,071
766	203	-	-	-	639	-	-	-	-	3,434	-	13,724
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
766	203	-	-	-	639	-	-	-	-	3,434	-	13,724
359	-	-	-	-	-	-	-	-	-	-	-	10,274
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
359	-	-	-	-	-	-	-	-	-	-	-	10,274
46	1,046	-	-	-	-	-	-	-	-	3,182	-	6,659
7	692	-	-	-	-	-	-	-	-	2,509	-	4,414
30	354	-	-	-	-	-	-	-	-	613	-	1,646
9	-	-	-	-	-	-	-	-	-	60	-	599
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	1,411	-	-	-	-	-	-	-	1,414

Major Energy Indicators of Viet Nam

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	1990	2000	2005	2006	2007	2008	2009	2010
Total								
Primary Energy Supply	5,414	14,841	25,769	28,769	32,062	35,331	39,600	45,910
Indigenous Production	5,811	25,777	45,190	48,300	49,170	46,997	51,477	51,277
Import	2,947	8,885	12,331	12,317	15,499	15,485	15,667	13,840
Export	-3,125	-18,650	-30,064	-30,976	-34,642	-26,108	-29,454	-20,838
Final Energy Consumption	4,212	11,927	20,905	22,779	25,600	28,479	32,071	35,992
Industry	1,713	4,653	8,235	9,049	11,609	12,441	13,724	14,926
Transport	1,412	3,763	6,898	7,560	8,115	8,666	10,274	11,164
Residential	481	1,878	3,262	3,596	3,755	4,012	4,414	4,786
Commerce & Public Services	334	1,095	1,665	1,600	1,546	1,576	1,646	1,753
Others	272	537	846	974	576	1,785	2,013	3,363
Coal, Coal Products								
Primary Energy Supply	2,212	4,372	7,082	9,045	9,681	12,017	12,645	14,730
Indigenous Production	2,597	6,501	18,142	21,790	24,186	22,275	24,480	24,646
Import	-	-	57	64	439	452	508	656
Export	-442	-1,821	-10,072	-11,936	-17,854	-10,839	-13,995	-11,104
Transformation Sector	-	-	-2,132	-3,517	-3,592	-3,728	-3,680	-4,837
Power Generation	-888	-1,150	-2,132	-3,517	-3,592	-3,728	-3,680	-4,837
Final Energy Consumption	1,324	3,223	4,950	5,528	6,089	8,289	8,966	9,893
Industry	1,019	2,339	3,734	4,176	4,732	6,849	7,506	8,306
Transport	14	-	-	-	-	-	-	-
Residential	207	584	861	1,004	1,008	1,070	1,089	1,204
Commerce & Public Services	19	276	333	327	328	347	350	364
Others	64	24	22	22	21	22	21	20
Crude Oil								
Primary Energy Supply	-	20	674	607	670	691	2,696	7,434
Indigenous Production	2,750	16,584	19,609	18,117	16,876	15,863	17,317	16,053
Import	-	-	-	-	-	-	-	-
Export	-2,664	-15,701	-18,290	-17,510	-15,333	-14,000	-13,614	-8,121
Transformation Sector	-	-	-	-	-	-	-1,972	-5,606
Petroleum Refineries	-	-	-	-	-	-	-1,972	-5,606
Petroleum Products								
Primary Energy Supply	2,737	7,757	11,859	12,170	13,864	13,704	14,259	12,769
Import	2,947	8,885	12,274	12,170	14,834	14,757	14,806	12,703
Export	-19	-1,128	-415	-	-969	-1,053	-1,813	-1,531
Transformation Sector	-	-	-678	-483	-821	-592	868	4,545
Power Generation	-381	-1,310	-678	-483	-821	-592	-646	-1,161
Petroleum Refineries	-	-	-	-	-	-	1,515	5,706
Final Energy Consumption	2,356	6,759	11,855	12,294	13,713	13,806	15,851	18,131
Industry	449	1,515	2,499	2,235	3,570	2,025	2,146	2,127
Transport	1,393	3,742	6,898	7,560	8,078	8,622	10,274	11,164
Residential	76	336	727	731	727	701	816	874
Commerce & Public Services	265	690	958	864	832	753	683	704
Others	174	476	774	903	506	1,706	1,931	3,263
Natural Gas								
Primary Energy Supply	3	1,440	4,649	5,108	5,653	6,408	7,101	8,123
Indigenous Production	3	1,440	5,935	6,638	6,139	6,624	7,101	8,123
Import	-	-	-	-	-	-	-	-
Export	-	-	-1,286	-1,530	-486	-216	-	-
Transformation Sector	-	-	-4,549	-4,872	-4,916	-5,693	-6,462	-7,631
Power Generation	-3	-1,102	-4,549	-4,872	-4,916	-5,693	-6,462	-7,631
Final Energy Consumption	-	18	100	326	542	540	639	493
Industry	-	18	100	326	542	540	639	493
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	746	2,284	4,598	5,285	5,750	6,282	6,837	8,215
Thermal	285	1,033	3,093	3,530	3,782	4,047	4,258	5,760
Hydro	462	1,251	1,505	1,755	1,968	2,235	2,578	2,455
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Final Energy Consumption	532	1,927	3,967	4,630	5,256	5,844	6,616	7,476
Industry	245	782	1,870	2,312	2,765	3,026	3,434	4,000
Transport	5	21	-	-	37	44	-	-
Residential	198	958	1,674	1,862	2,019	2,242	2,509	2,709
Commerce & Public Services	50	130	374	408	386	476	613	685
Others	34	37	49	49	49	57	60	81

Major Economic Indicators of Viet Nam

	1990	2000	2005	2007	2008	2009	2010	2011
Population (Millions) *1	66.02	77.63	82.39	84.22	85.12	86.03	86.93	87.84
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	15.02	31.17	44.77	52.55	55.87	58.84	62.83	66.58
Real Term (Billions of 2000 Price and 2000 PPP)	52.99	110.00	157.98	185.44	197.14	207.63	221.72	234.94
Nominal (Billions of Current USD)	6.47	31.17	52.92	71.02	91.09	97.18	106.43	123.68
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	227	402	543	624	656	684	723	758
Real Term (2000 Price and 2000 PPP)	803	1,417	1,917	2,202	2,316	2,414	2,550	2,675
Nominal (Current USD)	98	402	642	843	1,070	1,130	1,224	1,408
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	41,955	441,646	839,211	1,143,715	1,485,038	1,658,390	1,980,914	2,536,631
Household Final Consumption Expenditure, etc.	35,559	293,507	533,141	740,615	1,000,972	1,102,279	1,317,588	1,630,144
General Government Final Consumption Expenditure	5,177	28,346	51,652	69,247	90,904	104,540	129,313	164,323
Gross Fixed Capital Formation	N.A.	122,101	275,841	437,702	513,987	572,526	704,401	809,026
Stock Change	N.A.	8,670	22,702	55,598	75,759	59,800	65,810	78,394
Exports of Goods and Services	15,120	243,049	582,069	879,461	1,157,178	1,132,688	1,535,816	2,205,858
Imports of Goods and Services	18,996	253,927	617,157	1,060,763	1,383,006	1,304,351	1,739,363	2,312,711
Real GDP & its Components (Billions of 1994 VND) *1								
Gross Domestic Product	131,844	273,666	393,031	461,344	490,458	516,568	551,609	584,496
Household Final Consumption Expenditure, etc.	N.A.	182,420	254,484	305,504	334,046	346,352	378,958	395,632
General Government Final Consumption Expenditure	N.A.	18,245	25,620	30,272	32,549	35,021	39,323	42,140
Gross Fixed Capital Formation	N.A.	78,552	133,141	181,673	188,647	205,107	227,452	203,867
Stock Change	N.A.	4,944	10,150	21,518	27,301	20,153	21,250	22,015
Exports of Goods and Services	22,632	141,911	325,707	325,974	342,432	380,373	436,106	489,128
Imports of Goods and Services	30,495	151,996	350,145	412,796	444,216	473,821	540,663	559,519
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	32	23	20	18	18	17	16	16
Industry	25	35	40	42	42	42	42	42
Services, etc.	43	41	40	40	41	41	42	42
Industrial Production Index (2005=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.	2.404	14.483	32.442	48.561	62.685	57.096	72.237	96.906
Imports, c.i.f.	2.752	15.638	36.761	62.682	80.714	69.949	84.839	106.750
Balance of Payments (Billions of Current USD) *1								
Trade Balance	N.A.	0.375	-2.439	-10.438	-12.783	-7.607	-5.136	-0.450
Current Account	N.A.	1.106	-0.560	-6.953	-10.823	-6.608	-4.276	0.236
Overall Balance	N.A.	0.110	2.130	10.212	0.474	-8.465	-1.765	1.151
Foreign Exchange Rate (VND/USD) *1	6,482.80	14,167.75	15,858.92	16,105.13	16,302.25	17,065.08	18,612.92	20,509.75
Purchasing Power Parity (VND/International Dollar) *1	972.46	4,015.00	4,712.69	5,151.30	6,155.46	6,469.69	7,141.47	8,450.57
Price Indices								
GDP Deflator (1994=100) *3	31.8	161.4	213.5	247.9	302.8	321.0	359.1	434.0
Wholesale Price Index (2005=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2005=100)	N.A.	80.3	100.0	116.3	143.2	153.3	166.9	198.0
Growth Rate (%) *3								
Real GDP	5.10	6.79	8.44	8.46	6.31	5.32	6.78	5.96
Population	1.92	1.35	1.17	1.09	1.07	1.06	1.05	1.04
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.	-1.7	8.3	8.3	23.1	7.1	8.9	18.7

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

3.22.1 Primary Energy Supply Table

Primary Energy Supply Table in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	296,246	20,766	409,840	9,881	2,223,366	54	341,034	65,963	50,293
Import	46,387	276	81,213	25,428	428,688	32,674	41,148	425,760	282,271
Export	-225,589	-17,491	-239,744	-481	-47,437	-755	-217,441	-16,496	-54,889
International Marine Bunkers	-624	-	-524	-	-1,181	-9,428	-	-4,309	-8,757
International Aviation Bunkers	-3,431	-114	-1,214	-442	-2,645	-5,271	-	-5,726	-4,048
Stock Change	9,869	-43	3,017	-842	-64,586	-3,329	9,983	26,230	-9,111
Total	122,858	3,394	252,587	33,545	2,536,205	13,944	174,724	491,421	255,760
Coal & Coal Products									
Indigenous Production	222,087	-	33,658	245	1,828,168	-	207,723	650	959
Import	-	-	5,954	5,454	92,998	7,891	25	106,767	79,484
Export	-183,584	-	-20,076	-	-10,480	-0	-160,331	-483	-
Stock Change	9,643	-	66	-354	-43,955	-488	-637	140	-8,206
Total	48,147	-	19,603	5,345	1,866,731	7,403	46,780	107,074	72,237
Crude oil & Petroleum Products									
Indigenous Production	23,101	8,876	174,119	641	202,876	-	51,322	722	3,934
Import	40,776	276	47,300	16,584	305,896	21,525	41,123	226,805	160,876
Export	-18,667	-8,200	-137,814	-481	-32,329	-497	-21,332	-16,014	-54,889
International Marine Bunkers	-624	-	-524	-	-1,181	-9,428	-	-4,309	-8,757
International Aviation Bunkers	-3,431	-114	-1,214	-442	-2,645	-5,271	-	-5,726	-4,048
Stock Change	225	-65	858	-482	-20,631	-3,130	10,620	26,076	-182
Total	41,380	773	82,724	15,820	451,986	3,199	81,733	227,554	96,936
Natural Gas									
Indigenous Production	44,754	11,890	132,386	1,244	95,603	-	72,796	3,100	406
Import	5,611	-	25,968	3,327	29,230	2,270	-	92,188	41,911
Export	-23,338	-9,291	-76,853	-	-2,968	-	-35,778	-	-
Stock Change	-	22	2,092	-5	-	289	-	13	-724
Total	27,028	2,621	83,593	4,566	121,866	2,559	37,018	95,301	41,594
Nuclear Power									
Indigenous Production	-	-	24,389	-	22,503	-	-	42,459	40,321
Hydro Power									
Indigenous Production	1,445	-	32,319	1,807	60,109	-	1,068	7,666	673
Geothermal, Solar, etc									
Indigenous Production	837	0	898	29	6,048	0	8,124	2,920	228

Primary Energy Supply Table in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	308,343	20,630	396,784	9,218	2,087,116	54	306,007	100,910	47,722
Import	42,998	155	78,696	22,897	385,173	31,842	39,190	424,324	266,821
Export	-228,397	-17,154	-229,257	-627	-51,515	-726	-179,938	-17,727	-45,797
International Marine Bunkers	-706	-	-681	-401	-901	-9,428	-	-4,857	-9,005
International Aviation Bunkers	-3,406	-111	-1,139	-513	-2,462	-5,271	-	-5,389	-4,012
Stock Change	3,679	186	7,338	354	-118,007	-3,113	1,721	-384	-2,949
Total	122,512	3,706	251,741	30,928	2,299,404	13,358	166,980	496,877	252,779
Coal & Coal Products									
Indigenous Production	236,169	-	33,800	254	1,691,720	-	161,797	467	959
Import	-	-	7,570	3,809	83,241	6,503	32	112,726	72,949
Export	-189,910	-	-19,718	-	-12,634	-0	-122,304	-533	-
Stock Change	3,780	-	665	500	-103,988	-278	0	584	-438
Total	50,038	-	22,317	4,562	1,658,339	6,225	39,525	113,244	73,469
Crude oil & Petroleum Products									
Indigenous Production	23,913	9,219	163,916	611	203,014	-	58,008	757	3,458
Import	38,146	155	50,260	15,998	285,944	21,530	39,157	229,415	154,598
Export	-17,594	-8,718	-126,020	-627	-33,490	-498	-26,059	-17,194	-45,797
International Marine Bunkers	-706	-	-681	-401	-901	-9,428	-	-4,857	-9,005
International Aviation Bunkers	-3,406	-111	-1,139	-513	-2,462	-5,271	-	-5,389	-4,012
Stock Change	-101	186	18	-60	-14,019	-3,130	1,721	-953	-1,369
Total	40,253	731	86,354	15,008	438,085	3,202	72,828	201,779	97,873
Natural Gas									
Indigenous Production	42,253	11,410	132,426	1,554	88,303	-	76,638	3,159	484
Import	4,852	-	18,771	3,007	15,511	2,850	-	82,183	39,256
Export	-20,893	-8,436	-79,151	-	-3,752	-	-31,576	-	-
Stock Change	-	-	6,655	-86	-	295	-	-15	-1,142
Total	26,213	2,975	78,701	4,475	100,062	3,145	45,062	85,326	38,599
Nuclear Power									
Indigenous Production	-	-	23,625	-	19,253	-	-	76,188	38,724
Hydro Power									
Indigenous Production	1,165	-	30,226	1,868	62,107	-	1,518	8,142	557
Geothermal, Solar, etc									
Indigenous Production	702	-	760	29	3,837	0	8,047	3,371	199

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

Primary Energy Supply Table in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
81,723	228,543	17,732	1,433	20,713	21,838	1,314,872	120	13,782	58,488	1,793,278	-	6,969,964
38,677	51,780	7,385	1,722	8,008	20,964	15,627	151,599	110,117	63,835	700,168	-	2,533,728
-46,701	-87,936	-4,201	-886	-9,938	-2,864	-599,506	-83,790	-13,426	-11,288	-243,737	-	-1,924,594
-202	-925	-316	-	-	-212	-2,989	-43,154	-1,629	-	-26,390	-	-100,639
-	-2,741	-785	-	-	-1,071	-6,426	-4,188	-1,974	-4,580	-21,840	-	-66,497
-1,536	-2,711	-39	-12	-360	-102	-2,681	-	752	-2,201	-2,941	-	-40,645
71,962	186,010	19,774	2,257	18,423	38,553	718,898	20,587	107,622	104,254	2,198,539	-	7,371,317
1,570	7,789	2,894	-	114	3,632	180,042	-	-	5,332	536,369	-	3,031,233
11,786	4,565	91	-	443	5,786	4,273	-	37,081	10,499	8,232	-	381,329
-120	-6	-1,535	-	-122	-1,444	-80,572	-	-66	-4	-63,381	-	-522,204
78	-2,333	-13	-	231	-248	131	-	-22	-	-2,211	-	-48,177
13,314	10,015	1,436	-	667	7,726	103,874	-	36,992	15,826	479,009	-	2,842,180
31,311	159,058	2,386	890	6,678	313	514,868	-	10	19,259	360,919	-	1,561,280
20,882	32,291	7,293	1,722	7,344	15,029	4,667	144,994	57,777	43,890	606,414	-	1,803,464
-21,315	-87,620	-2,666	-886	-4,510	-1,420	-351,545	-83,790	-13,360	-11,145	-141,964	-	-1,010,441
-202	-925	-316	-	-	-212	-2,989	-43,154	-1,629	-	-26,390	-	-100,638
-	-2,741	-785	-	-	-1,071	-6,426	-4,188	-1,974	-4,580	-21,840	-	-66,497
-1,550	-152	44	-12	-576	114	-11	-	766	-2,201	7,632	-	17,343
29,127	99,911	5,955	1,714	8,937	12,753	158,565	13,862	41,591	45,222	784,772	-	2,204,512
48,075	41,800	3,482	128	11,759	3,473	552,915	-	264	31,093	531,056	-	1,586,224
5,977	14,872	-	-	-	-	6,553	6,605	15,260	8,820	80,618	-	339,210
-25,233	-209	-	-	-5,306	-	-165,316	-	-	-	-34,654	-	-378,946
-	-226	-70	-	-	-	-2,797	-	8	-	-8,134	-	-9,532
28,819	56,237	3,411	128	6,453	3,473	391,354	6,605	15,532	39,913	568,886	-	1,536,955
-	2,629	-	-	-	-	45,094	-	10,976	-	214,058	-	402,428
656	3,119	2,157	71	1,855	812	14,414	-	594	702	29,642	-	159,109
-	5,880	5,611	344	6	8,558	449	-	237	9	28,170	-	68,350

Primary Energy Supply Table in 2010 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
85,110	227,863	18,441	1,428	16,945	23,188	1,293,080	86	13,625	48,872	1,732,340	51,277	6,789,040
34,254	47,514	7,137	1,684	7,471	21,617	22,887	144,433	117,600	65,621	725,553	13,840	2,501,706
-49,891	-90,528	-4,284	-886	-10,295	-3,883	-601,987	-77,360	-15,841	-12,163	-191,619	-20,838	-1,850,712
-59	-811	-335	-	-	-183	-1,531	-40,853	-1,780	-	-26,011	-	-97,543
-	-2,727	-778	-	-	-989	-6,238	-4,188	-1,979	-3,628	-21,817	-	-64,648
172	-2,089	-334	-18	2,909	-256	-3,889	-	-101	541	6,399	1,630	-106,209
69,587	179,222	19,849	2,208	17,030	39,494	702,322	22,118	111,523	99,243	2,224,843	45,910	7,171,634
1,293	6,324	3,137	-	60	3,510	180,041	-	-	4,586	531,848	24,646	2,880,610
11,188	4,650	133	-	631	5,788	15,310	-	39,106	10,768	11,440	656	386,499
-53	-4	-1,708	-	-70	-2,163	-85,947	-	-78	-13	-48,241	-11,104	-494,481
68	-1,466	-250	-	113	-104	5,425	-	158	-	7,595	532	-87,106
12,496	9,504	1,312	-	733	7,030	114,829	-	39,186	15,341	502,642	14,730	2,685,522
35,341	160,623	2,745	890	7,115	922	506,545	-	13	17,128	346,839	16,053	1,557,111
18,336	30,392	7,004	1,684	6,757	15,734	3,938	137,860	64,628	42,919	623,305	12,703	1,800,463
-25,663	-89,672	-2,575	-886	-8,073	-1,719	-360,223	-77,360	-15,763	-12,011	-114,932	-9,652	-994,524
-59	-811	-335	-	-	-183	-1,531	-40,853	-1,780	-	-26,011	-	-97,543
-	-2,727	-778	-	-	-989	-6,238	-4,188	-1,979	-3,628	-21,817	-	-64,648
105	-294	43	-18	2,815	-183	-3,365	-	-239	541	-1,450	1,098	-18,653
28,060	97,510	6,104	1,670	8,614	13,582	139,126	15,459	44,880	44,950	805,934	20,203	2,182,206
47,936	41,911	3,855	123	7,626	3,049	540,188	-	237	25,000	494,781	8,123	1,529,057
4,730	12,439	-	-	-	-	3,498	6,573	13,866	11,307	86,852	-	305,694
-24,162	-736	-	-	-2,130	-	-154,175	-	-	-	-25,817	-	-350,825
-	-329	-127	-	-	-	-5,937	-	-20	-	453	-	-252
28,504	53,285	3,728	123	5,496	3,049	383,575	6,573	14,082	36,307	556,269	8,123	1,483,674
-	1,532	-	-	-	-	44,434	-	10,848	-	218,625	-	433,230
540	3,192	2,126	71	1,724	671	14,482	-	626	476	24,625	2,455	156,570
0	5,918	5,388	344	6	8,544	435	-	193	4	25,441	-	63,219

3.2.2.2 Final Energy Consumption Table

Final Energy Consumption Table in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	77,551	915	204,567	26,009	1,452,421	6,052	115,504	318,976	160,457
Coal & Coal Products	2,985	-	2,757	324	559,002	0	20,239	36,060	9,435
Crude oil & Petroleum Products	40,047	624	92,581	13,734	413,902	2,395	64,519	164,036	81,972
Natural Gas	13,007	27	55,928	1,970	82,394	-	16,996	30,833	21,577
Electricity	18,140	264	44,625	4,982	331,944	3,621	13,749	84,615	40,473
Others	3,371	-	8,675	4,999	65,179	36	-	3,432	7,000
Industry	23,263	179	56,757	9,728	876,017	97	51,691	142,518	48,525
Coal & Coal Products	2,836	-	2,724	321	469,286	0	20,239	35,496	8,597
Crude oil & Petroleum Products	4,077	160	6,067	3,440	97,567	97	9,971	53,639	6,385
Natural Gas	7,597	-	23,883	993	33,193	-	16,774	16,342	8,277
Electricity	7,031	19	17,698	3,305	231,001	-	4,706	34,728	21,160
Others	1,722	-	6,386	1,668	44,970	0	-	2,313	4,107
Transport	30,119	431	59,745	7,784	182,516	2,084	40,167	77,841	29,131
Coal & Coal Products	121	-	-	-	3,323	-	-	-	-
Crude oil & Petroleum Products	29,197	431	56,976	7,726	159,989	2,084	40,134	76,114	27,864
Natural Gas	462	-	2,437	17	11,908	-	25	-	1,074
Electricity	338	-	331	41	7,296	-	8	1,727	193
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,251	-	4,816	-	33,800	-	-	3,663	1,984
Coal & Coal Products	-	-	-	-	10,031	-	-	-	-
Crude oil & Petroleum Products	2,060	-	3,280	-	14,984	-	-	3,286	1,229
Natural Gas	3	-	724	-	52	-	-	-	4
Electricity	189	-	812	-	8,711	-	-	306	723
Others	-	-	0	-	22	-	-	72	28
Residential & Commercial	17,422	288	59,253	7,144	221,854	250	16,527	89,440	40,490
Coal & Coal Products	28	-	33	-	64,790	-	-	564	838
Crude oil & Petroleum Products	919	17	5,656	1,664	48,920	214	7,296	25,484	6,354
Natural Gas	4,244	27	25,491	523	29,116	-	197	14,491	12,222
Electricity	10,583	244	25,784	1,626	61,259	-	9,035	47,854	18,210
Others	1,648	-	2,289	3,331	17,769	36	-	1,047	2,865

Final Energy Consumption Table in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	76,482	981	199,425	23,788	1,355,881	6,693	111,705	328,202	157,430
Coal & Coal Products	3,108	-	2,861	389	541,999	0	19,116	35,722	9,293
Crude oil & Petroleum Products	39,166	664	91,711	12,079	389,977	2,394	63,774	170,661	82,201
Natural Gas	12,838	31	52,178	2,370	66,293	659	16,139	30,129	20,584
Electricity	17,983	286	43,512	4,707	296,693	3,604	12,675	88,040	38,644
Others	3,386	-	9,163	4,242	60,919	37	0	3,649	6,708
Industry	22,502	205	56,595	8,679	848,602	382	47,262	145,768	45,117
Coal & Coal Products	2,906	-	2,829	385	453,879	0	19,116	35,115	8,438
Crude oil & Petroleum Products	3,460	150	6,755	3,020	121,977	95	7,786	57,040	5,902
Natural Gas	7,508	4	22,652	1,100	25,373	22	15,976	15,255	7,090
Electricity	6,877	51	17,435	3,083	205,710	265	4,385	35,891	19,618
Others	1,751	-	6,924	1,091	41,663	0	-	2,467	4,069
Transport	29,446	395	59,501	7,143	166,547	2,145	36,805	80,487	29,949
Coal & Coal Products	171	-	-	-	3,292	-	-	-	-
Crude oil & Petroleum Products	28,491	395	56,713	7,089	147,899	2,084	36,788	78,658	28,738
Natural Gas	444	-	2,464	18	9,040	-	10	-	1,023
Electricity	339	-	324	37	6,317	61	8	1,829	188
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,193	-	4,231	-	32,319	-	-	3,668	1,947
Coal & Coal Products	-	-	-	-	9,726	-	-	-	-
Crude oil & Petroleum Products	1,988	-	2,855	-	14,127	-	-	3,282	1,254
Natural Gas	3	-	568	-	47	-	-	-	4
Electricity	203	-	808	-	8,398	-	-	316	688
Others	-	-	0	-	22	-	-	70	-
Residential & Commercial	17,283	278	55,952	6,653	204,431	4,163	19,504	92,418	40,364
Coal & Coal Products	31	-	32	-	64,100	-	-	607	855
Crude oil & Petroleum Products	904	16	5,226	1,396	43,102	214	11,068	25,820	6,429
Natural Gas	4,149	27	23,509	526	25,002	637	154	14,874	12,467
Electricity	10,563	235	24,945	1,580	55,183	3,278	8,283	50,005	17,973
Others	1,636	-	2,239	3,151	17,044	33	0	1,112	2,639

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

Final Energy Consumption Table in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
42,003	116,073	12,659	1,411	13,871	23,042	462,841	12,446	65,827	63,179	1,516,617	-	4,692,421
1,503	1,721	556	-	626	1,838	19,908	-	6,944	6,479	21,465	-	691,844
23,903	73,944	5,804	1,099	8,667	11,296	116,248	8,766	37,225	37,472	788,938	-	1,987,173
7,347	13,651	1,704	-	1,423	82	137,989	123	2,378	6,414	326,883	-	720,726
9,235	19,429	3,321	312	3,149	4,824	62,679	3,556	19,178	12,813	325,929	-	1,006,839
15	7,329	1,274	-	6	5,001	126,018	-	102	-	53,402	-	285,839
11,181	29,203	3,932	722	4,249	5,930	132,645	8,478	22,564	17,329	283,973	-	1,728,980
1,503	1,721	446	-	626	1,838	15,870	-	6,944	6,479	20,165	-	595,092
1,937	5,913	331	488	1,236	1,318	10,181	6,994	3,413	2,936	30,459	-	246,608
3,683	9,896	901	-	834	81	31,222	74	1,218	2,469	118,753	-	276,189
4,058	10,671	1,207	235	1,553	1,663	28,622	1,410	10,989	5,444	77,279	-	462,778
-	1,001	1,047	-	-	1,030	46,750	-	-	-	37,317	-	148,312
15,253	52,055	4,578	438	6,735	7,789	98,416	1,523	12,025	21,640	605,263	-	1,255,529
-	-	1	-	-	-	-	-	-	-	-	-	3,445
15,002	51,945	4,571	438	6,034	7,778	59,341	1,523	11,921	19,579	588,007	-	1,166,654
233	13	1	-	407	1	31,305	-	-	2,055	16,596	-	66,533
18	96	5	-	294	10	7,771	-	103	6	660	-	18,898
-	-	-	-	-	-	-	-	-	-	-	-	-
969	3,835	587	-	89	124	11,111	5	158	3,723	14,704	-	81,820
-	-	62	-	-	-	64	-	-	-	-	-	10,157
943	2,876	319	-	36	23	3,990	-	4	3,694	14,361	-	51,085
-	-	36	-	-	-	526	-	-	-	-	-	1,344
26	959	154	-	53	101	1,277	5	154	29	-	-	13,499
-	-	16	-	0	-	5,254	-	-	-	343	-	5,735
8,718	21,755	2,600	-	2,385	8,905	153,420	2,191	11,257	10,399	469,048	-	1,143,346
-	-	46	-	-	-	3,969	-	-	-	1,300	-	71,568
3,551	8,017	213	-	981	1,897	8,275	-	2,144	3,131	33,986	-	158,716
34	937	242	-	169	-	42,189	50	1,160	2	181,447	-	312,540
5,134	6,474	1,888	-	1,229	3,037	24,985	2,141	7,852	7,266	236,574	-	471,174
-	6,327	211	-	6	3,971	74,003	-	102	-	15,742	-	129,348

Final Energy Consumption Table in 2010 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
40,290	113,617	12,814	1,370	12,518	23,559	445,818	12,368	68,090	61,648	1,531,026	35,992	4,619,697
1,563	1,783	604	-	599	1,933	19,344	-	6,915	7,929	23,199	9,893	686,251
24,383	73,858	5,846	1,066	8,067	11,727	103,767	8,742	40,170	35,853	800,538	18,131	1,984,777
5,355	12,746	1,733	-	1,135	72	143,229	119	2,124	5,053	327,266	493	700,547
8,989	17,883	3,363	304	2,717	4,753	62,495	3,507	18,777	12,813	326,965	7,476	976,186
-	7,346	1,267	-	-	5,074	116,984	-	103	-	53,057	-	271,936
10,619	27,572	3,979	706	3,688	6,045	131,704	8,500	22,476	18,381	283,848	17,682	1,710,310
1,563	1,783	515	-	599	1,933	15,242	-	6,915	7,929	21,691	8,306	589,144
2,795	5,842	347	476	940	1,431	11,114	6,994	3,869	2,817	30,269	4,883	277,965
2,269	9,016	876	-	704	71	32,366	70	1,014	2,191	118,718	493	262,769
3,992	9,901	1,209	229	1,445	1,598	28,109	1,436	10,677	5,444	75,630	4,000	436,984
-	1,030	1,031	-	-	1,012	44,873	-	-	-	37,540	-	143,449
16,780	51,846	4,568	424	6,048	8,097	96,490	1,499	11,854	21,194	611,076	11,164	1,253,459
-	-	1	-	-	-	-	-	-	-	-	-	3,463
16,551	51,732	4,561	424	5,681	8,087	56,298	1,499	11,754	19,576	594,106	11,164	1,168,287
211	12	1	-	367	0	32,858	-	-	1,612	16,306	-	64,365
18	102	5	-	-	10	7,334	-	100	6	663	-	17,343
-	-	-	-	-	-	-	-	-	-	-	-	-
1,072	3,523	534	-	81	135	8,070	4	152	3,532	16,069	607	78,138
-	-	43	-	-	-	73	-	-	-	-	20	9,862
1,048	2,784	287	-	33	22	2,976	-	4	3,504	15,696	507	50,366
-	-	32	-	-	-	553	-	-	-	-	-	1,207
24	740	155	-	48	112	1,349	4	148	29	-	81	13,102
-	-	17	-	-	-	3,119	-	-	-	373	-	3,601
6,941	21,417	2,663	-	2,236	8,953	148,504	2,115	11,209	10,138	474,430	6,539	1,136,192
-	-	45	-	-	-	4,022	-	-	-	1,509	1,568	72,770
1,955	8,091	196	-	974	1,872	6,381	-	2,221	2,871	36,904	1,577	157,218
31	966	276	-	56	-	43,464	49	1,110	1	182,156	-	309,455
4,955	6,043	1,927	-	1,206	3,018	25,678	2,067	7,775	7,266	238,717	3,394	474,092
-	6,317	218	-	-	4,063	68,958	-	103	-	15,144	-	122,657

3.22.3 Demand and Supply Table

Demand & Supply Table of Coal in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	237,339	-	33,800	254	1,691,720	-	161,797	467	959
Import	-	-	7,078	3,808	83,167	6,503	32	113,557	72,508
Export	-190,144	-	-19,664	-	-10,356	-0	-122,304	-	-
Stock Change	4,233	-	622	529	-92,907	-278	0	584	-438
Primary Energy Supply	51,427	-	21,836	4,591	1,671,623	6,225	39,525	114,608	73,029
Main Activity Producer	-44,951	-	-18,948	-3,856	-730,777	-6,224	-20,233	-48,103	-46,251
Autoproducers	-	-	-2	-	-118,643	-	-	-10,423	-2,505
Coal Transformation	-3,361	-	-2,626	-348	-272,416	-	-	-38,268	-19,557
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-5,744	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,127	-	1,411	332	467,133	0	19,116	14,651	4,406

Demand & Supply Table of Crude Oil in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	23,752	9,219	165,816	611	203,014	-	58,008	757	698
Import	22,321	14	39,320	8,659	237,682	-	15,455	185,869	121,570
Export	-15,150	-8,718	-104,795	-	-3,030	-	-20,558	-	-481
Stock Change	-432	183	-1,530	-3	-8,900	-	-	-1,190	-795
Primary Energy Supply	30,491	698	98,812	9,267	428,766	-	52,904	185,437	120,992
Main Activity Producer	-	-	-	-	-37	-	-	-3,523	-
Autoproducers	-	-	-	-	-33	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-32,254	-733	-97,939	-9,894	-418,694	-	-49,087	-181,505	-126,123
Gas processing	-	-	-	-	-	-	-	-	-
Other Transformation	279	-	1,109	-	-	-	-	-	7,338
Final Energy Consumption	13	-	-	-	3,235	-	-	-	-

Demand & Supply Table of Natural Gas in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	42,531	11,410	132,343	1,554	88,303	-	76,638	3,159	485
Import	4,852	-	18,730	3,007	15,511	2,850	-	82,183	39,290
Export	-20,893	-8,436	-79,151	-	-3,752	-	-31,576	-	-
Stock Change	-	-	6,692	-86	-	295	-	-15	-1,090
Primary Energy Supply	26,491	2,975	78,615	4,475	100,062	3,145	45,062	85,326	38,685
Main Activity Producer	-7,125	-1,153	-8,269	-1,718	-16,137	-2,487	-7,123	-51,089	-17,570
Autoproducers	-1,271	-150	-3,246	-34	-3,795	-	-1,650	-3,222	-435
Coal Transformation	-76	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-262	-430	-1,933	-8	1,149	-	-12,727	1,138	365
Other Transformation	-	-	-800	-	-	-	-	-	-
Final Energy Consumption	13,153	31	51,931	2,370	66,293	659	16,139	29,990	20,367

Demand & Supply Table of Coal in 2010 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
1,293	4,839	3,132	-	60	3,510	180,041	-	-	4,586	531,848	24,646	2,880,289
11,188	3,718	133	-	589	5,788	15,174	-	38,977	4,476	10,682	576	377,954
-53	-3	-1,708	-	-70	-2,163	-84,285	-	-	-1	-47,327	-11,031	-489,110
68	-115	-249	-	109	-104	5,424	-	158	-	7,549	532	-74,285
12,496	8,439	1,307	-	688	7,030	116,354	-	39,134	9,062	502,752	14,723	2,694,848
-11,084	-6,810	-310	-	-257	-5,090	-40,629	-	-22,047	-6,315	-458,840	-4,720	-1,475,443
-	-	-8	-	-	-	-16,269	-	-6,011	-505	-3,638	-117	-158,121
-	-1,513	-416	-	-	-	-36,050	-	-5,524	-	-14,831	-	-394,912
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-1,919	-	-7,663
-	-	-	-	-	-	-	-	-	-	-	-	-
1,563	115	558	-	553	1,933	5,333	-	5,259	1,285	21,164	9,886	556,825

Demand & Supply Table of Crude Oil in 2010 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
35,341	160,623	2,745	890	7,115	922	506,545	-	13	17,128	344,921	16,053	1,554,171
7,985	399	5,233	972	4,881	9,095	1,105	41,211	46,059	42,757	540,002	-	1,330,588
-17,247	-80,005	-2,453	-886	-968	-862	-248,268	-39	-	-1,587	-9,997	-8,121	-523,166
-336	-131	-43	-25	120	-100	-2,455	-	-157	-	-1,429	-499	-17,720
25,743	80,886	5,482	952	11,147	9,054	256,927	41,172	45,915	58,297	873,497	7,434	2,343,873
-	-	-	-	-	-	-	-	-	-	-	-	-3,560
-	-	-	-	-	-	-787	-	-	-	-	-	-820
-	-	-	-	-	-	-	-	-	-	-	-	-
-22,645	-73,827	-5,364	-948	-10,435	-8,733	-251,180	-41,172	-46,059	-49,224	-842,408	-5,606	-2,273,830
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	4	-	48	83	-	-	-	802	23,593	-	33,256
-	-	-	4	-	-	110	-	-	5,530	3,563	-	12,455

Demand & Supply Table of Natural Gas in 2010 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
47,936	41,911	3,855	123	7,626	3,049	540,188	-	237	25,000	495,180	8,123	1,529,651
4,730	12,439	-	-	-	-	3,498	6,573	13,866	11,307	86,918	-	305,752
-24,162	-736	-	-	-2,130	-	-154,175	-	-	-	-26,153	-	-351,161
-	-329	-127	-	-	-	-6,708	-	-20	-	548	-	-839
28,504	53,285	3,728	123	5,496	3,049	382,803	6,573	14,082	36,307	556,493	8,123	1,483,404
-14,559	-22,491	-1,710	-	-2,969	-2,859	-139,983	-6,573	-10,361	-22,510	-171,238	-7,378	-515,303
-883	-2,819	-36	-118	-160	-	-82,602	-	-111	-2,473	-13,849	-253	-117,106
-	-	-	-	-	-	-	-	-	-	-	-	-76
-	-	-	-	-	-	-	-	-	-	-	-	-
-2,423	636	-	-	-	-	-0	113	-1,067	-	1,272	-	-14,179
-4,685	-	-	-	-	-	-1,677	-	-	-	-	-	-7,163
5,355	12,746	1,658	-	1,135	72	143,229	119	2,124	5,053	319,163	493	692,081

Demand & Supply Table of Coal in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	222,087	-	33,658	245	1,828,168	-	207,723	650	959
Import	-	-	5,690	5,432	92,919	7,891	25	106,262	79,200
Export	-183,584	-	-19,844	-	-8,238	-0	-160,331	-	-
Stock Change	9,689	-	97	-354	-36,928	-488	-637	140	-164
Primary Energy Supply	48,193	-	19,600	5,323	1,875,921	7,403	46,780	107,052	79,995
Main Activity Producer	-41,739	-	-17,628	-4,786	-828,347	-7,403	-26,530	-44,326	-48,087
Autoproducers	-	-	-1	-	-131,640	-	-	-8,685	-3,129
Coal Transformation	-3,601	-	-2,843	-464	-306,704	-	-	-36,692	-22,965
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-4,824	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,047	-	1,697	212	473,780	0	20,239	16,181	5,059

Demand & Supply Table of Crude Oil in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	23,092	8,859	174,119	641	202,876	-	51,322	722	707
Import	25,955	11	34,510	9,269	253,779	-	14,808	178,607	127,915
Export	-16,469	-8,078	-118,761	-	-2,514	-	-20,726	-	-584
Stock Change	576	-68	1,064	64	-14,530	-	5,636	13,985	-13
Primary Energy Supply	33,154	723	90,932	9,973	439,610	-	51,040	193,314	128,025
Main Activity Producer	-	-	-	-	-113	-	-	-7,554	-
Autoproducers	-	-	-	-	-46	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-33,983	-708	-94,159	-10,951	-432,502	-	-50,058	-171,020	-134,662
Gas processing	-	-	-	-	-	-	-	-	-
Other Transformation	295	-	2,422	-	-	-	-	-	8,505
Final Energy Consumption	14	-	-	-	1,552	-	-	-	-

Demand & Supply Table of Natural Gas in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	44,754	11,890	132,386	1,244	95,603	-	72,796	3,100	406
Import	5,611	-	25,968	3,327	29,230	2,270	-	92,188	41,911
Export	-23,338	-9,291	-76,853	-	-2,968	-	-35,778	-	-
Stock Change	-	22	2,092	-5	-	289	-	13	-724
Primary Energy Supply	27,028	2,621	83,593	4,566	121,866	2,559	37,018	95,301	41,594
Main Activity Producer	-8,323	-1,101	-9,975	-2,353	-19,459	-2,559	-8,414	-60,966	-19,456
Autoproducers	-2,474	-154	-3,321	-55	-4,212	-	-	-2,914	-579
Coal Transformation	-68	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-260	13	-1,940	77	1,009	-	-5,589	1,155	506
Other Transformation	-	-	-849	-	-	-	-413	-	-
Final Energy Consumption	13,007	27	55,928	1,970	82,394	-	16,996	30,833	21,577

Demand & Supply Table of Coal in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
1,570	7,789	2,894	-	114	3,632	180,042	-	-	5,332	536,369	-	3,031,233
11,786	4,352	91	-	434	5,786	4,162	-	37,012	3,035	7,346	-	371,423
-120	-6	-1,535	-	-122	-1,444	-78,818	-	-	-3	-62,775	-	-516,821
78	-2,364	-13	-	210	-248	131	-	-22	-	-2,184	-	-33,057
13,314	9,771	1,436	-	637	7,726	105,517	-	36,990	8,364	478,756	-	2,852,778
-11,119	-8,106	-375	-	-211	-5,785	-41,646	-	-19,800	-6,912	-432,163	-	-1,544,963
-	-38	-7	-	-	-	-17,689	-	-5,383	-241	-2,926	-	-169,738
-	-2,014	-412	-	-	-	-39,214	-	-5,394	-	-15,087	-	-435,391
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-1,932	-	-6,756
-	-	-	-	-	-	-	-	-	-	-	-	-
1,503	79	521	-	595	1,838	5,644	-	5,406	1,199	19,013	-	555,014

Demand & Supply Table of Crude Oil in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
28,306	159,058	2,386	890	6,678	313	514,868	-	10	19,259	360,803	-	1,554,907
9,314	367	5,401	982	4,970	9,124	468	41,468	41,908	41,814	530,008	-	1,330,678
-11,912	-78,607	-2,371	-886	-822	-329	-248,815	-20	-	-1,808	-12,823	-	-525,525
-1,687	-517	155	-13	-93	-88	511	-	730	-	5,016	-	10,727
24,022	80,300	5,572	973	10,733	9,019	267,033	41,448	42,648	59,265	883,005	-	2,370,787
-	-	-	-	-	-	-	-	-	-	-	-	-7,667
-	-	-	-	-	-	-792	-	-	-	-	-	-838
-	-	-	-	-	-	-	-	-	-	-	-	-
-24,688	-73,744	-5,573	-966	-10,404	-9,277	-261,286	-41,448	-42,627	-49,324	-850,058	-	-2,297,439
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,796	6	-	-	90	-	-	-	928	23,521	-	37,563
-	-	-	4	-	-	97	-	-	6,273	1,644	-	9,585

Demand & Supply Table of Natural Gas in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
48,075	41,800	3,482	128	11,759	3,473	552,915	-	264	31,093	531,056	-	1,586,224
5,977	14,872	-	-	-	-	6,553	6,605	15,260	8,820	80,618	-	339,210
-25,233	-209	-	-	-5,306	-	-165,316	-	-	-	-34,654	-	-378,946
-	-226	-70	-	-	-	-2,797	-	8	-	-8,134	-	-9,532
28,819	56,237	3,411	128	6,453	3,473	391,354	6,605	15,532	39,913	568,886	-	1,536,955
-9,383	-23,812	-1,480	-	-3,405	-3,296	-149,575	-6,605	-11,202	-23,064	-175,396	-	-539,826
-1,453	-3,251	-29	-123	-256	-	-87,303	-	-92	-3,534	-14,382	-	-124,131
-	-	-	-	-	-	-	-	-	-	-	-	-68
-	-	-	-	-	-	-	-	-	-	-	-	-
-6,184	666	-	-	-	-	-0	113	-665	-	1,189	-	-9,912
-3,496	-	-	-	-	-	-1,729	-	-	-	-	-	-6,487
7,347	13,651	1,704	-	1,423	82	137,989	123	2,378	6,414	326,883	-	720,726

3.22.4 Power Generation Table

Power Generation Table in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	254,634	3,725	639,000	67,724	4,713,019	39,071	183,419	1,107,149	525,127
Thermal	227,052	3,723	145,006	39,693	3,806,136	39,025	161,425	814,407	356,866
Coal	173,291	-	76,364	19,619	3,705,050	30,932	81,000	316,338	224,518
Oil	4,103	37	6,531	6,355	11,936	154	41,050	157,492	16,631
Gas	49,658	3,686	62,111	13,719	89,150	7,939	39,375	340,576	115,717
Hydro	16,807	-	375,797	21,009	698,945	-	12,419	89,307	7,831
Nuclear	-	-	93,589	-	86,350	-	-	162,927	154,723
Geothermal	1	-	-	-	-	-	9,371	2,618	-
Others	10,774	2	24,608	7,022	121,588	46	203	37,890	5,707
Main Activity Producer	237,241	3,395	582,100	61,662	4,251,658	39,026	183,419	865,217	495,437
Thermal	211,575	3,393	129,365	38,822	3,344,775	39,025	161,425	624,545	328,579
Coal	172,910	-	76,363	19,619	3,253,658	30,932	81,000	226,519	203,967
Oil	385	37	4,623	5,533	11,154	154	41,050	85,745	11,465
Gas	38,280	3,356	48,379	13,670	79,963	7,939	39,375	312,281	113,147
Hydro	16,807	-	345,282	20,318	698,945	-	12,419	72,639	7,831
Nuclear	-	-	93,589	-	86,350	-	-	162,927	154,723
Geothermal	1	-	-	-	-	-	9,371	2,460	-
Others	8,858	2	13,864	2,522	121,588	2	203	2,646	4,304
Autoproducers	17,393	330	56,900	6,062	461,361	44	-	241,932	29,690
Thermal	15,477	330	15,641	871	461,361	-	-	189,862	28,287
Coal	381	-	1	-	451,392	-	-	89,819	20,551
Oil	3,718	-	1,908	822	781	-	-	71,747	5,166
Gas	11,378	330	13,732	49	9,187	-	-	28,295	2,570
Hydro	-	-	30,515	691	-	-	-	16,668	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	158	-
Others	1,916	-	10,744	4,500	-	44	-	35,245	1,403

Power Generation Table in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	252,155	3,792	602,004	60,434	4,207,160	38,333	169,786	1,156,013	499,406
Thermal	230,493	3,792	141,932	36,026	3,331,928	38,290	142,657	727,732	341,395
Coal	180,889	-	83,324	16,866	3,242,177	27,244	68,115	345,269	219,276
Oil	4,358	38	7,455	8,470	17,301	163	33,708	100,448	18,935
Gas	45,246	3,754	51,153	10,690	72,450	10,883	40,835	282,678	103,184
Hydro	13,549	-	351,461	21,717	722,172	-	17,677	95,314	6,472
Nuclear	-	-	90,658	-	73,880	-	-	292,355	148,596
Geothermal	1	-	-	-	-	-	9,357	2,706	-
Others	8,112	-	17,953	2,691	79,180	43	95	37,906	2,943
Main Activity Producer	235,867	3,440	552,250	56,760	3,805,192	38,292	169,786	928,965	470,924
Thermal	13,549	-	324,254	21,381	722,172	-	17,677	79,276	6,472
Coal	180,471	-	83,319	16,866	2,848,462	27,244	68,115	248,662	199,701
Oil	815	38	5,470	7,400	16,625	163	33,708	45,118	13,168
Gas	34,875	3,402	39,651	10,593	64,874	10,883	40,835	258,573	100,904
Hydro	13,549	-	324,254	21,381	722,172	-	17,677	79,276	6,472
Nuclear	-	-	90,658	-	73,880	-	-	292,355	148,596
Geothermal	1	-	-	-	-	-	9,357	2,534	-
Others	6,156	-	8,898	520	79,180	1	95	2,674	2,083
Autoproducers	16,288	352	49,754	3,674	401,968	41	-	227,047	28,482
Thermal	14,332	352	13,492	1,167	401,968	-	-	175,605	27,622
Coal	418	-	5	-	393,715	-	-	96,607	19,575
Oil	3,543	-	1,985	1,070	677	-	-	55,330	5,767
Gas	10,371	352	11,502	97	7,577	-	-	24,105	2,280
Hydro	-	-	27,207	336	-	-	-	16,038	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	172	-
Others	1,956	-	9,055	2,171	-	41	-	35,232	860

Power Generation Table in 2011 (Continued)

												GWh
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
128,741	297,848	46,507	3,925	39,223	69,050	1,054,765	45,999	252,169	159,518	4,346,123	-	13,976,737
121,118	238,784	10,681	2,539	16,916	49,463	710,912	45,366	196,380	138,817	2,961,379	-	10,085,687
52,983	34,132	2,167	-	637	25,577	164,348	-	122,139	28,207	1,875,413	-	6,932,715
9,977	48,371	2	1,964	2,272	3,295	27,362	10,562	8,979	1,156	40,712	-	398,941
58,158	156,281	8,512	575	14,007	20,591	519,202	34,804	65,262	109,454	1,045,254	-	2,754,031
7,623	36,266	25,079	987	21,573	9,440	167,608	-	6,902	5,537	344,679	-	1,847,809
-	10,089	-	-	-	-	172,941	-	42,116	-	821,405	-	1,544,141
-	6,507	6,116	400	-	9,942	522	-	-	2	17,892	-	53,372
-	6,202	4,631	-	734	205	2,782	633	6,771	15,162	200,768	-	445,728
123,604	268,370	45,219	960	36,278	69,050	990,657	45,999	214,785	144,362	4,181,554	-	12,839,994
115,981	213,610	9,989	334	15,146	49,463	650,687	45,366	164,272	138,817	2,842,780	-	9,127,948
52,983	33,468	1,580	-	637	25,577	153,309	-	93,560	28,207	1,854,473	-	6,308,762
9,625	42,474	2	334	1,558	3,295	23,415	10,562	7,308	1,156	33,035	-	292,910
53,373	137,668	8,407	-	12,951	20,591	473,963	34,804	63,404	109,454	955,272	-	2,526,276
7,623	35,796	25,067	627	21,041	9,440	166,502	-	6,902	5,537	342,838	-	1,795,614
-	10,089	-	-	-	-	172,941	-	42,116	-	821,405	-	1,544,141
-	6,507	6,062	-	-	9,942	522	-	-	2	17,892	-	52,760
-	2,368	4,101	-	91	205	5	633	1,495	6	156,639	-	319,531
5,137	29,478	1,288	2,965	2,945	-	64,108	-	37,384	15,156	164,569	-	1,136,743
5,137	25,174	692	2,205	1,770	-	60,225	-	32,108	-	118,599	-	957,739
-	664	587	-	-	-	11,039	-	28,579	-	20,940	-	623,953
352	5,897	-	1,630	714	-	3,947	-	1,672	-	7,677	-	106,031
4,785	18,613	105	575	1,056	-	45,239	-	1,858	-	89,982	-	227,755
-	470	12	360	532	-	1,106	-	-	-	1,841	-	52,195
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	54	400	-	-	-	-	-	-	-	-	612
-	3,834	530	-	643	-	2,777	-	5,276	15,156	44,129	-	126,197

Power Generation Table in 2010 (Continued)

												GWh
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
113,789	271,050	44,878	3,500	35,907	67,743	1,038,030	45,368	247,033	144,362	4,378,422	95,523	13,474,687
106,776	217,473	11,982	2,176	15,122	49,920	695,935	44,919	191,762	138,817	3,060,149	66,981	9,596,257
43,756	32,618	2,064	-	857	23,301	166,094	-	120,543	28,207	1,994,194	15,878	6,610,671
2,662	43,879	2	1,633	2,028	7,101	9,312	10,455	10,548	1,156	48,086	6,578	334,315
60,358	140,976	9,916	543	12,237	19,518	520,529	34,464	60,671	109,454	1,017,869	44,525	2,651,934
6,272	37,121	24,716	987	20,052	7,803	168,397	-	7,255	5,537	286,333	28,542	1,821,377
-	5,879	-	-	-	-	170,415	-	41,629	-	838,931	-	1,662,343
-	6,618	5,882	337	-	9,929	505	-	-	2	17,577	-	52,914
741	3,959	2,298	-	733	90	2,778	449	6,387	6	175,432	-	341,796
109,288	242,537	43,487	960	33,546	67,743	976,126	45,368	208,897	144,362	4,214,470	92,410	12,440,671
6,272	36,739	24,704	627	19,567	7,803	167,489	-	7,255	5,537	284,550	28,542	1,773,866
43,756	31,938	1,391	-	857	23,301	154,560	-	91,456	28,207	1,969,153	15,878	6,033,338
1,824	37,752	2	334	1,379	7,101	5,402	10,455	8,255	1,156	39,782	3,465	239,410
57,436	123,445	9,788	-	11,660	19,518	477,751	34,464	59,287	109,454	929,056	44,525	2,440,973
6,272	36,739	24,704	627	19,567	7,803	167,489	-	7,255	5,537	284,550	28,542	1,773,866
-	5,879	-	-	-	-	170,415	-	41,629	-	838,931	-	1,662,343
-	6,618	5,828	-	-	9,929	505	-	-	2	17,577	-	52,351
-	166	1,774	-	83	90	4	449	1,015	6	135,421	-	238,616
4,501	28,513	1,391	2,539	2,361	-	61,904	-	38,136	-	163,952	3,113	1,034,017
3,760	24,338	801	1,842	1,226	-	58,222	-	32,764	-	122,158	3,113	882,762
-	680	673	-	-	-	11,534	-	29,086	-	25,041	-	577,333
838	6,127	-	1,299	649	-	3,910	-	2,293	-	8,304	3,113	94,905
2,922	17,531	128	543	577	-	42,778	-	1,384	-	88,813	-	210,961
-	382	12	360	485	-	908	-	-	-	1,783	-	47,511
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	54	337	-	-	-	-	-	-	-	-	563
741	3,793	524	-	650	-	2,774	-	5,372	-	40,011	-	103,180

3.22.5 Fuel Consumption Table for Power Generation

Fuel Consumption Table for Power Generation in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Main Activity Producer	50,477	1,111	28,972	8,467	861,205	9,999	45,020	129,748	71,452
Coal	41,739	-	17,628	4,786	828,347	7,403	26,530	44,326	48,087
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	1,265	-	-	1,000	347
Blast Furnace Gas	-	-	-	-	-	-	-	3,003	947
Crude Oil & NGL	-	-	-	-	113	-	-	7,552	-
LPG	-	-	-	-	-	-	-	786	-
Refinery Gas	-	-	-	-	790	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Diesel Oil	67	10	248	883	400	14	7,480	122	81
Fuel Oil	5	-	438	83	1,344	23	2,523	10,695	2,291
Natural Gas	8,323	1,101	9,975	2,353	19,459	2,559	8,414	60,966	19,456
Others	343	-	683	362	9,486	-	73	1,298	240
Autoproducers	3,546	154	6,340	785	161,475	3	-	30,335	9,494
Coal	-	-	1	-	131,640	-	-	8,685	3,129
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	6,294	-	-	386	337
Blast Furnace Gas	73	-	-	-	12,788	-	-	1,622	2,295
Crude Oil & NGL	-	-	-	-	46	-	-	-	-
LPG	-	-	-	-	7	-	-	145	-
Refinery Gas	-	-	312	9	1,506	-	-	1,207	-
Naphtha	-	-	-	-	-	-	-	1,405	1,763
Diesel Oil	539	-	63	90	24	-	-	1,059	-
Fuel Oil	131	-	85	36	1,103	-	-	4,998	-
Natural Gas	2,474	154	3,321	55	4,212	-	-	2,914	579
Others	329	-	2,557	596	3,856	3	-	7,913	1,390

Fuel Consumption Table for Power Generation in 2010

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Main Activity Producer	51,421	1,163	28,836	7,193	772,701	8,748	35,816	116,119	67,946
Coal	43,708	-	18,948	3,856	730,777	6,224	20,233	48,158	46,251
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	1,219	-	-	1,128	227
Blast Furnace Gas	-	-	-	-	-	-	-	3,154	385
Crude Oil & NGL	-	-	-	-	37	-	-	3,514	-
LPG	-	-	-	-	-	-	-	292	-
Refinery Gas	-	-	-	-	814	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	211	10	267	1,228	1,161	14	5,983	148	33
Fuel Oil	-	-	612	91	2,044	23	2,445	7,046	3,250
Natural Gas	7,163	1,153	8,294	1,718	16,137	2,487	7,123	51,287	17,570
Others	340	-	715	300	20,512	-	32	1,392	231
Autoproducers	3,209	150	5,722	506	145,292	3	1,650	31,796	8,218
Coal	-	-	2	-	118,643	-	-	8,945	2,505
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	5,972	-	-	467	306
Blast Furnace Gas	82	-	-	-	10,890	-	-	2,101	2,249
Crude Oil & NGL	-	-	-	-	33	-	-	-	-
LPG	-	-	-	-	11	-	-	93	-
Refinery Gas	-	-	312	-	1,934	-	-	1,370	-
Naphtha	-	-	-	-	-	-	-	1,562	1,693
Gas/Diesel Oil	403	-	63	32	39	-	-	1,325	-
Fuel Oil	140	-	105	106	1,208	-	-	4,743	-
Natural Gas	2,131	150	3,040	34	3,795	-	1,650	3,086	435
Others	453	-	2,200	334	2,769	3	-	8,105	1,030

Fuel Consumption Table for Power Generation in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
22,580	41,844	1,892	104	4,154	9,939	198,213	8,730	32,755	30,426	628,636	-	2,185,725
11,119	8,106	375	-	211	5,785	41,646	-	19,800	6,912	432,163	-	1,544,963
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	50	-	2,662
-	-	-	-	-	-	-	-	-	-	163	-	4,113
-	-	-	-	-	-	-	-	-	-	-	-	7,665
-	-	-	-	-	-	-	-	-	-	-	-	786
-	-	-	-	-	-	-	-	-	-	-	-	790
-	-	-	-	-	-	-	-	-	-	-	-	-
976	384	-	51	98	181	-	53	48	17	1,503	-	12,618
1,102	9,542	-	53	405	615	6,992	1,952	1,706	433	2,135	-	42,335
9,383	23,812	1,480	-	3,405	3,296	149,575	6,605	11,202	23,064	175,396	-	539,826
-	-	36	-	35	62	-	120	-	-	17,227	-	29,967
1,578	5,758	311	617	800	-	124,325	-	8,735	5,875	25,344	-	385,476
-	38	7	-	-	-	17,689	-	5,383	241	2,926	-	169,738
-	-	-	-	-	-	-	-	-	-	-	-	-
-	15	39	-	-	-	1,676	-	186	-	103	-	9,037
-	111	118	-	-	-	3,537	-	476	-	803	-	21,822
-	-	-	-	-	-	792	-	-	-	-	-	838
-	-	-	-	-	-	35	-	-	-	-	-	187
-	-	-	-	145	-	915	-	15	-	-	-	4,110
-	-	-	-	-	-	-	-	-	-	-	-	3,169
125	135	-	211	87	-	2,033	-	-	-	37	-	4,403
-	236	-	284	115	-	5,849	-	468	7	57	-	13,369
1,453	3,251	29	123	256	-	87,303	-	92	3,534	14,382	-	124,131
-	1,971	119	-	197	-	4,495	-	2,115	2,093	7,037	-	34,673

Fuel Consumption Table for Power Generation in 2010 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
26,183	38,954	2,079	104	3,702	9,452	182,190	8,653	34,377	29,083	653,327	12,732	2,090,780
11,084	7,709	315	-	257	5,090	40,629	-	22,047	6,315	458,840	4,720	1,475,160
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	36	-	2,608
-	-	-	-	-	-	-	-	-	-	269	-	3,807
-	-	-	-	-	-	-	-	-	-	-	-	3,551
-	-	-	-	-	-	-	-	-	-	-	-	292
-	-	-	-	-	-	-	-	-	-	-	-	814
-	-	-	-	-	-	-	-	-	-	-	-	-
415	311	-	51	83	337	-	38	57	34	1,880	259	12,518
125	8,442	-	53	362	1,150	1,579	1,966	1,912	224	3,534	373	35,222
14,559	22,491	1,727	-	2,969	2,859	139,983	6,573	10,361	22,510	171,238	7,378	515,581
-	-	36	-	32	16	-	86	-	-	17,531	2	41,226
1,084	5,445	341	587	547	-	118,067	-	9,494	4,660	24,893	912	362,576
-	41	7	-	-	-	16,269	-	6,011	505	3,638	117	156,682
-	-	-	-	-	-	6	-	-	-	-	-	6
-	18	47	-	-	-	1,672	-	171	-	103	-	8,755
-	114	134	-	-	-	3,529	-	407	-	651	-	20,157
-	-	-	-	-	-	787	-	-	-	-	-	820
-	-	-	-	-	-	33	-	-	-	-	-	137
-	-	-	-	5	-	889	-	18	-	-	-	4,528
-	-	-	-	-	-	-	-	-	-	-	-	3,255
201	133	-	195	94	-	2,029	-	-	-	51	-	4,565
-	265	-	274	89	-	5,793	-	544	5	63	529	13,864
883	2,819	35	118	160	-	82,602	-	111	2,473	13,849	253	117,623
-	2,054	119	-	200	-	4,459	-	2,232	1,678	6,537	13	32,186

3.22.6 Stock Table by Energy Resources

Stock Table by Energy Resource in 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Opening Stocks									
Hard Coal	-	-	-	-	-	-	0	140	-
Coking Coal	-	-	-	-	-	-	-	-	-
Other bituminous coal	-	-	-	-	-	-	-	140	-
Subbituminous Coal	-	-	-	-	-	-	0	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	2,279	2,656	8,483	539	-	-	-	13,985	15,050
Gasoline	756	12	2,398	161	-	-	-	1,558	590
Naphtha	233	8	281	67	-	-	-	694	302
Jet Fuel	-	-	3	-	-	-	-	-	-
Kerosene	810	14	2,327	286	-	-	-	2,323	1,821
Gas/Diesel Oil	92	-	481	94	-	-	-	1,533	1,498
Fuel Oil	222	0	134	97	36	-	-	2,377	1,110
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	643	2	1,430	302	-	-	-	333	339
Natural Gas	-	-	2,092	-5	-	-	-	13	-724
Others	-	-	-	-	-	-	-	-	-
Total Opening Stocks	5,035	2,692	17,629	1,541	36	-	0	22,957	19,986
Closing Stocks									
Hard Coal	-	-	-	-	28,202	-	638	-	-
Coking Coal	-	-	-	-	4,223	-	-	-	-
Other bituminous coal	-	-	-	-	23,979	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	638	-	-
Anthracite	-	-	-	-	1,912	-	-	-	-
Lignite	-	-	-	-	6,814	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	6,997	-	-	-	-
BKB/PB	-	-	-	-	29	-	-	-	-
Crude Oil & NGL	1,943	2,720	7,516	472	14,530	-	-5,636	-	14,963
Gasoline	829	7	2,375	276	1,175	-	393	-	510
Naphtha	282	10	300	225	109	-	127	-	353
Jet Fuel	-	-	1	-	30	-	-	-	-
Kerosene	922	13	2,520	339	796	-	-5,451	-	1,908
Gas/Diesel Oil	92	-	420	75	260	-	23	-	1,677
Fuel Oil	219	0	168	302	-	-	-82	-	1,168
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	782	2	1,462	308	3,398	-	-	-	295
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Total Closing Stocks	5,068	2,753	14,763	1,997	64,253	-	-9,988	-	20,873
Stock Change									
Hard Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Other bituminous coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	-	-	-	-	-
Gasoline	-	-	-	-	-	-	-	-	-
Naphtha	-3,431	-114	-1,214	-442	-2,645	-5,271	-	-5,726	-4,048
Jet Fuel	-	-	-	-	-	-	-	-	-
Kerosene	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	-	-	-	-	-	-	-	-	-
Fuel Oil	-	-	-	-	-	-	-	-	-
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Total Stock Change	-3,431	-114	-1,214	-442	-2,645	-5,271	-	-5,726	-4,048

Stock Table by Energy Resource in 2011 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
78	-	-	-	210	-	-	-	3,198	-	-	-	3,627
-	-	-	-	-	-	-	-	210	-	-	-	210
-	-	-	-	210	-	-	-	2,566	-	-	-	2,917
78	-	-	-	-	-	-	-	422	-	-	-	500
-	-	-	-	-	-	-	-	9	-	-	-	9
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	21	-	-	-	-	-	-	-	21
-	-	-	-	-	-	-	-	-	-	-	-	-
-	3,316	509	-	-	-	42,894	-	4,475	-	133,923	-	228,109
13	1,007	236	-	-	2	2,498	-	1,089	-	23,415	-	33,734
-	129	57	-	538	12	-	-	-	-	4,855	-	7,176
-	-	-	-	-	-	-	-	-	-	-	-	3
1,541	937	117	-	139	193	4,099	-	1,021	-	21,694	-	37,322
-	616	26	-	-	-	5,587	-	374	-	8,847	-	19,148
1	106	10	-	14	21	345	-	305	-	6,514	-	11,293
-	-	-	-	-	-	-	-	-	-	-	-	-
-	295	46	-	-	1	-	-	-	-	6,756	-	10,147
-	-226	-70	-	-	-	-2,797	-	-	-	-8,134	-	-9,851
-	-	-	-	-	-	-	-	-	-	-	-	-
1,632	6,180	932	-	922	228	52,626	-	10,470	-	197,869	-	340,737
-	-	-	-	-	248	-	-	3,222	-	-	-	32,309
-	-	-	-	-	-	-	-	310	-	-	-	4,533
-	-	-	-	-	-	-	-	2,271	-	-	-	26,250
-	-	-	-	-	248	-	-	641	-	-	-	1,526
-	-	-	-	-	-	-	-	8	-	-	-	1,920
-	-	-	-	-	-	-	-	-	-	-	-	6,814
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	6,997
-	-	-	-	-	-	-	-	-	-	-	-	29
1,687	3,833	350	13	77	113	42,389	-	3,745	-	129,414	-	218,128
-	756	212	0	721	-	2,572	-	970	-	23,769	-	34,566
824	94	69	-0	-	-	-	-	-	-	4,544	-	6,936
-	-	-	-	-	-	-	-	-	-	-	-	31
-	782	218	2	-	-	4,349	-	1,082	-	19,976	-	27,456
-	757	50	0	269	16	5,783	-	317	-	7,387	-	17,125
-	46	2	-0	-	-	347	-	346	2,201	7,117	-	11,836
-	-	-	-	-	-	-	-	-	-	-	-	-
599	289	53	-	184	-	-	-	-	-	6,485	-	13,858
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3,110	6,558	954	16	1,251	376	55,439	-	9,690	2,201	198,691	-	378,005
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-2,728	-785	-	-	-1,071	-6,426	-4,188	-1,974	-4,580	-21,840	-	-66,484
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-2,728	-785	-	-	-1,071	-6,426	-4,188	-1,974	-4,580	-21,840	-	-66,484

3.22.7 Power Generation Capacity Table

Power Generation Capacity - Total

MW

	1990	2000	2005	2007	2008	2009	2010	2011
Australia	38,451	46,204	50,142	53,438	54,350	57,059	59,857	61,116
Brunei Darussalam	334	763	759	759	814	814	888	-
Canada	104,141	111,324	122,838	126,376	127,610	135,397	137,114	138,690
Chile	5,099	9,894	12,586	13,180	14,019	15,731	16,231	17,574
China	137,891	319,321	509,410	713,290	792,530	873,970	962,180	1,064,550
Hong Kong, China	8,342	11,568	11,804	12,644	12,624	12,644	12,624	12,624
Indonesia	9,275	20,762	27,664	31,416	30,298	30,298	32,872	39,899
Japan	194,730	258,838	274,558	275,529	275,588	277,511	281,082	282,284
Republic of Korea	21,021	53,693	66,537	73,373	79,859	80,610	84,700	84,654
Malaysia	5,582	13,762	23,626	22,973	23,029	26,637	24,817	25,599
Mexico	27,371	40,345	52,497	57,839	58,304	59,693	62,290	61,600
New Zealand	7,176	8,388	8,851	9,413	9,367	9,395	9,630	9,630
Papua New Guinea	490	543	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	4,143	6,070	6,201	6,658	7,158	7,987	8,000	-
Philippines	6,869	13,185	15,619	15,803	13,048	13,319	13,319	16,162
Russia	213,400	212,771	219,043	223,981	225,238	225,499	222,935	222,984
Singapore	3,667	6,610	10,106	10,606	10,606	10,606	10,606	-
Chinese Taipei	16,883	27,385	43,146	45,881	46,382	47,976	48,882	48,750
Thailand	8,725	20,802	26,269	28,285	30,508	30,508	31,486	31,486
United States of America	733,589	812,630	978,539	995,876	1,011,254	1,026,869	1,041,000	1,055,278
Viet Nam	2,537	6,192	11,340	N.A.	N.A.	N.A.	17,521	-

Power Generation Capacity - Thermal Power

MW

	1990	2000	2005	2007	2008	2009	2010	2011
Australia	30,130	36,945	40,815	43,548	44,269	46,628	49,028	49,626
Brunei Darussalam	334	763	759	759	814	814	888	-
Canada	31,201	33,183	36,794	37,757	37,436	44,611	45,103	45,103
Chile	2,421	5,464	7,360	7,804	8,566	10,091	10,576	11,419
China	101,845	237,540	384,130	554,420	601,320	652,050	706,630	768,520
Hong Kong, China	8,342	11,568	11,804	12,644	12,624	12,644	12,624	12,624
Indonesia	7,040	17,386	23,643	26,844	25,845	25,845	27,973	34,743
Japan	124,984	166,648	177,223	176,339	176,412	179,324	181,736	182,382
Republic of Korea	11,065	36,817	45,365	49,888	55,977	56,482	60,389	58,303
Malaysia	4,185	11,708	21,242	20,611	20,745	23,134	22,488	22,515
Mexico	18,155	28,441	39,540	43,817	44,383	45,320	47,736	47,070
New Zealand	2,296	2,741	2,883	3,273	3,061	2,922	3,118	3,118
Papua New Guinea	335	319	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	1,744	3,210	2,938	3,395	2,244	2,641	4,682	-
Philippines	3,661	8,953	10,393	10,542	8,676	9,041	9,041	10,772
Russia	149,700	146,670	149,915	153,335	154,778	153,800	151,114	151,114
Singapore	3,667	6,610	10,106	10,606	10,606	10,606	10,606	-
Chinese Taipei	9,177	17,819	32,756	35,277	35,650	37,177	37,924	37,632
Thailand	6,451	17,865	20,575	22,412	24,547	24,547	25,109	25,201
United States of America	536,667	610,124	767,316	775,195	781,791	786,050	793,551	798,833
Viet Nam	1,362	2,900	4,382	N.A.	N.A.	N.A.	10,187	-

Power Generation Capacity - Hydro Power

MW

	1990	2000	2005	2007	2008	2009	2010	2011
Australia	8,321	9,201	8,535	8,567	8,554	8,619	8,773	8,788
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	59,381	67,407	71,978	73,458	74,407	74,687	75,078	75,078
Chile	2,678	4,430	5,224	5,356	5,433	5,452	5,467	5,946
China	36,046	79,352	116,520	145,260	171,520	196,790	213,400	233,390
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	2,095	3,015	3,221	3,529	3,510	3,510	3,710	3,944
Japan	37,831	46,325	47,348	47,374	47,637	47,949	47,966	48,111
Republic of Korea	2,340	3,149	3,883	5,492	5,505	5,515	5,525	6,418
Malaysia	1,397	2,054	2,091	2,120	2,120	2,107	2,107	2,856
Mexico	7,838	9,653	10,598	11,577	11,471	11,543	11,626	11,646
New Zealand	4,619	5,193	5,346	5,348	5,371	5,325	5,250	5,250
Papua New Guinea	155	224	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	2,400	2,860	3,207	3,216	3,242	3,277	3,318	-
Philippines	2,153	2,301	3,222	3,257	2,950	2,914	2,914	3,491
Russia	43,400	44,345	45,797	46,804	47,066	47,308	47,430	47,479
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	1,562	4,422	4,512	4,523	4,540	4,539	4,579	4,643
Thailand	2,274	2,936	3,476	3,475	3,481	3,481	3,488	3,488
United States of America	92,360	98,881	98,887	99,771	99,788	100,678	101,023	100,944
Viet Nam	1,176	3,292	4,155	N.A.	N.A.	N.A.	7,334	-

Power Generation Capacity - Nuclear Power

MW

	1990	2000	2005	2007	2008	2009	2010	2011
Australia	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	13,538	10,615	13,345	13,345	13,345	12,665	12,665	12,665
Chile	-	-	-	-	-	-	-	-
China	-	2,100	6,840	8,850	8,850	9,000	10,820	12,570
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Japan	31,645	45,248	48,222	49,467	49,467	47,935	48,847	48,960
Republic of Korea	7,616	13,716	17,176	17,716	17,716	17,716	17,716	18,716
Malaysia	-	-	-	-	-	-	-	-
Mexico	675	1,365	1,365	1,365	1,365	1,365	1,365	1,365
New Zealand	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	-	-	-	-	-	-	-	-
Philippines	-	-	-	-	-	-	-	-
Russia	20,300	21,730	23,242	23,742	23,304	24,300	24,300	24,300
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144
Thailand	-	-	-	-	-	-	-	-
United States of America	99,643	97,860	99,988	100,266	100,755	101,004	101,167	101,419
Viet Nam	-	-	-	N.A.	N.A.	N.A.	-	-

Power Generation Capacity - Others

MW

	1990	2000	2005	2007	2008	2009	2010	2011
Australia	-	58	792	1,323	1,527	1,812	2,056	2,702
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	21	119	721	1,816	2,422	3,434	4,268	5,844
Chile	-	-	2	20	20	188	188	209
People's Republic of China	-	329	1,920	4,760	10,840	16,130	31,330	50,070
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	140	360	800	1,043	942	942	1,190	1,211
Japan	270	617	1,765	2,349	2,072	2,303	2,533	2,831
Republic of Korea	-	11	113	277	661	897	1,070	1,217
Malaysia	-	-	293	242	164	1,396	221	228
Mexico	703	886	994	1,080	1,085	1,465	1,563	1,519
New Zealand	261	454	622	792	935	1,148	1,262	1,262
Papua New Guinea	-	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	-	1	55	47	1,672	2,069	-	-
Philippines	1,055	1,931	2,004	2,004	1,422	1,364	1,364	1,900
Russia	-	26	89	100	90	91	91	91
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	1,000	-	735	936	1,048	1,116	1,234	1,332
Thailand	-	1	2,218	2,398	2,480	2,480	2,889	2,797
United States of America	4,919	5,765	12,348	20,644	28,920	39,137	45,259	54,082
Viet Nam	-	-	2,803	N.A.	N.A.	N.A.	-	-

Appendices

A. Definition of Products

1. Coal
2. Oil
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5. New and Renewable Energy

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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

High rank coal used for industrial and residential applications. It has generally less than 10% volatile matter and a high carbon content (about 90% fixed carbon). Its gross calorific value is greater than 23 865 kJ/kg (5 700 kcal/kg) on an ash-free but moist basis.

2. Coking Coal

Bituminous coal with a quality that allows the production of a coke suitable to support a blast furnace charge. Its gross calorific value is greater than 23 865 kJ/kg (5 700 kcal/kg) on an ash-free but moist basis.

3. Bituminous Coal

Coal used for steam raising purposes and includes all bituminous coal that is not included under coking coal nor anthracite. It is characterized by higher volatile matter than anthracite (more than 10%) and lower carbon content (less than 90% fixed carbon). Its gross calorific value is greater than 23 865 kJ/kg (5 700 kcal/kg) on an ash-free but moist basis. If bituminous coal is used in coke ovens it should be reported as coking coal.

4. Sub-bituminous Coal

Non-agglomerating coals with a gross calorific value between 17.4 MJ/kg (4,165 kcal/kg) and 23.9 MJ/kg (5,700 kcal/kg) containing more than 31% volatile matter on a dry mineral matter free basis.

5. Lignite

Non-agglomerating coals with a gross calorific value less than 17.4 MJ/kg (4,165 kcal/kg) and greater than 31% volatile matter on a dry mineral matter free basis. Oil shale and tar sands produced and combusted directly should be reported in this category. Oil shale and tar sands used as inputs for other transformation processes should also be reported in this category. This includes the portion of the oil shale or tar sands consumed in the transformation process.

6. Peat

Combustible soft, porous or compressed, fossil sedimentary deposit of plant origin with high water content (up to 90 per cent in the raw state), easily cut, of light to dark brown color. Only peat used for energy purposes should be reported here.

7. Patent Fuel

A composition fuel manufactured from hard coal fines by shaping with the addition of a binding agent. Note that the amount of patent fuel produced can be slightly higher than the amount of coal consumed in the transformation process because of 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 carbonization of coal, principally coking coal,

at high temperature, it is low in moisture and volatile matter. Coke oven coke is used mainly in the iron and steel industry acting as energy source and chemical agent. Coke breeze and foundry coke are included in this category. Semi-coke, the solid product obtained from carbonization of coal at low temperature, should be included in this category. Semi-coke is used as a domestic fuel or by the transformation plant itself. This heading also includes coke, coke breeze and semi-coke made from lignite/brown coal.

- **Gas Coke:** A by-product of hard coal used for production of town gas in gas works. Gas Coke is used for heating purposes.

9. Coal Tar

Coal tar is a by-product of the coke oven process.

10. BKB/PB (Braunkohlenbriketts/Peat Briquettes)

A composition fuel manufactured from lignite/brown coal or peat. The lignite/brown coal or peat is crushed, dried and molded under high pressure into an even-shaped briquette without the addition of binders. German production of lignite dust is included in this category.

11. Gas Works Gas

Covers all types of gases including substitute natural gas produced in public utility or private plants, whose main purpose is manufacture, transport and distribution of gas. It includes gas produced by carbonization (including gas produced by coke ovens and transferred to gas works gas) reported under the "production" row, by total gasification with or without enrichment with oil products (LPG, residual fuel oil, etc.), by cracking of natural gas, and by reforming and simple mixing of gases and/or air,

reported under the "from other sources" row. Substitute natural gas is a high calorific value gas, manufactured by chemical conversion of a hydrocarbon fossil fuel. It is chemically and physically interchangeable with natural gas and is usually distributed through the natural gas grid. The main raw materials for manufacture of substitute natural gas are: coal, oil and oil shales. Substitute natural gas is distinguished from other manufactured gases by its high heat value (above 8,000 kcal/m³) and by its high methane content (above 85%). Substitute natural gas produced by synthesis from fuels other than coal based should also come under "from other sources". The quantity of fuel should be reported on a gross calorific value.

12. Coke Oven Gas

Obtained as a by-product of solid fuel carbonization and gasification operations carried out by coke producers and iron and steel plants which are not connected with gas works and municipal gas plants. The quantity of fuel should be reported on a gross calorific value.

13. Blast Furnace Gas

Obtained as a by-product in operating blast furnaces; it is recovered on leaving the furnaces and used partly within the plant and partly in other steel industry processes or in power stations equipped to burn it. The quantity of fuel should be reported on a gross calorific value.

14. Oxygen Steel Furnace Gas

Obtained as a by-product of the production of steel in an oxygen furnace; it is recovered on leaving the furnace. The gas is also known as converter gas, LD or BOS gas. The quantity of fuel should be reported on a gross calorific value.

OIL

1. Crude Oil

Crude oil is a mineral oil of natural origin comprising a mixture of hydrocarbons and associated impurities, such as sulphur. It exists in the liquid phase under normal surface temperature and pressure and its physical characteristics (density, viscosity, etc.) are highly variable. This category includes field or lease condensate recovered from associated and non-associated gas where it is commingled with the commercial crude oil stream.

2. Natural Gas Liquids (NGL)

NGL are liquid or liquefied hydrocarbons recovered from natural gas in separation facilities or gas processing plants. Natural gas liquids include ethane, propane, butane (normal and iso-), (iso) pentane and pentanes plus (sometimes referred to as natural gasoline or plant condensate).

3. Refinery Feedstocks

A refinery feedstock is a processed oil destined for further processing (e.g. straight run fuel oil or vacuum gas oil) excluding blending. With further processing, it will be transformed into one or more components and/or finished products. This definition also covers returns from the petrochemical industry to the refining industry (e.g. pyrolysis gasoline, C₄ fractions, gasoil and fuel oil fractions).

4. Additives/Oxygenates

Additives are non-hydrocarbon compounds added to or blended with a product to modify fuel properties (octane, cetane, cold properties, etc.):

- **Oxygenates:** such as alcohols (methanol, ethanol), ethers (such as MTBE (methyl tertiary butyl ether), ETBE (ethyl tertiary butyl ether), TAME (tertiary amyl methyl ether));
- **Esters** (e.g. rapeseed or dimethylester, etc.);

- **Chemical Compounds** (such as TML, TEL and detergents).

Note: Quantities of ethanol relate only to the quantities destined for fuel use.

5. Biofuels

Biofuels such as bio-gasoline and bio-diesel that are blended into gasoline and diesel by the consumer or at a refinery plant.

- **Bio-gasoline:** a gasoline quality liquid fuel produced from biomass or used cooking oils consists of bioethanol, biomethanol, BioETBE and bioMTBE
- **Bio-diesel:** a diesel quality liquid fuel produced from biomass or used cooking oils, consists of biodiesel, bio-dimethylether, fischer tropsh and cold pressed biooil.
- **Bio-ethanol:** ethanol produced from biomass and/or biodegradable fraction of waste;
- **Bio-methanol:** methanol produced from biomass and/or the biodegradable fraction of waste;
- **Bio-dimethylether:** 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

This category includes synthetic crude oil from tar sands, shale oil, etc., liquids from coal liquefaction, output of liquids from natural gas conversion into gasoline, hydrogen and emulsified oils (e.g. Orimulsion).

Note on the reporting of emulsified oils:

All imports of emulsified oils (e.g. Orimulsion) should be reported as imports of 'Other Hydrocarbons' (cell F8 in Table 1). As these oils do not need further processing

in a refinery, report these quantities as Direct Use (cell F10 in Table 1) and Primary Product Receipts in the 'Bitumen' category in Table 2. Any production of emulsified oils should appear as indigenous production of 'Other Hydrocarbons' (cell F1 in Table 1). Report all quantities in physical weight of the emulsion (i.e. including the water content).

7. Refinery Gas (not liquefied)

Refinery gas includes 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. This also includes gases which are returned from the petrochemical industry.

8. Ethane

A naturally gaseous straight-chain hydrocarbon, (C₂H₆) extracted from natural gas and refinery gas streams.

9. Liquefied Petroleum Gases (LPG)

LPG are light paraffinic hydrocarbons derived from the refinery processes, crude oil stabilisation and natural gas processing plants. They consist mainly of propane (C₃H₈) and butane (C₄H₁₀) or a combination of the two. They could also include propylene, butylene, isobutene and isobutylene. LPG are normally liquefied under pressure for transportation and storage.

10. Naphtha

Naphtha is a feedstock destined for either the petrochemical industry (e.g. ethylene manufacture or aromatics production). Naphtha comprises material in the 30°C and 210°C distillation range or part of this range. Naphtha imported for blending is reported as an import of naphtha, then shown on the interproduct transfer row, as a negative entry for Naphtha, and a positive entry for the corresponding finished product.

11. Motor Gasoline

Motor gasoline consists of a mixture of light hydrocarbons distilling between 35°C and 215°C. It is

used as a fuel for land based spark ignition engines. Motor gasoline may include additives, oxygenates and octane enhancers, including lead compounds such as TEL (Tetraethyl lead) and TML (tetramethyl lead).

12. Aviation Gasoline

This is motor spirit prepared especially for aviation piston engines, with an octane number suited to the engine, a freezing point of -60°C and a distillation range usually within the limits of 30°C and 180°C.

13. Gasoline Type Jet Fuel (Naphtha type Jet Fuel or JP4)

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 kerosenes and gasoline or naphtha in such a way that the aromatic content does not exceed 25% in volume, and the vapour pressure is between 13.7kPa and 20.6kPa.

14. Kerosene Type Jet Fuel

This is a distillate used for aviation turbine power units. It has the same distillation characteristics between 150°C and 300°C (generally not above 250°C) and flash point as kerosene. In addition, it has particular specifications (such as freezing point) which are established by the International Air Transport Association (IATA). This category includes kerosene blending components.

15. Other Kerosene

Kerosene comprises refined petroleum distillate and is used in sectors other than aircraft transport. It distils between 150°C and 300°C.

16. Gas/Diesel Oil (Distillate Fuel Oil)

Gas/diesel oil is primarily a medium distillate distilling between 180°C and 380°C, and mainly used for diesel compression ignition (cars, trucks, etc.), usually of low sulphur content.

17. Fuel Oil

This covers all residual (heavy) fuel oils (including those

obtained by blending). Kinematic viscosity is above 10 cSt at 80°C. The flash point is always above 50°C and density is always more than 0.90 kg/l.

18. White Spirit and SBP

White Spirit and SBP are defined as refined distillate intermediates with a distillation in the naphtha/kerosene range. They are sub-divided as:

- Industrial Spirit (SBP): Light oils distilling between 30° and 200°C. There are 7 or 8 grades of industrial spirit, depending on the position of the cut in the distillation range. The grades are defined according to the temperature difference between the 5% volume and 90% volume distillation points (which is not more than 60°C).
- White Spirit: Industrial spirit with a flash point above 30°C. The distillation range of white spirit is 135° to 200°C.

19. Lubricants

Lubricants are hydrocarbons produced from distillate by product; they are mainly used to reduce friction between bearing surfaces. This category includes all finished grades of lubricating oil, from spindle oil to cylinder oil, and those used in greases, including motor oils and all grades of lubricating oil base stocks.

20. Bitumen

Bitumen is a solid, semi-solid or viscous hydrocarbon with a colloidal structure, being brown to black in colour, obtained as a residue in the distillation of crude oil, by vacuum distillation of oil residues from atmospheric distillation. Bitumen is often referred to as asphalt and is

primarily used for construction of roads and for roofing material. This category includes fluidized and cut back bitumen.

21. Paraffin Waxes

These are saturated aliphatic hydrocarbons. These waxes are residues extracted when dewaxing lubricant oils. They have a crystalline structure which is more-or-less fine according to the grade. Their main characteristics are as follows: they are colourless, odourless and translucent, with a melting point above 45°C.

22. Petroleum Coke

Petroleum coke is a black solid by-product, obtained mainly by cracking and carbonising petroleum derived feedstock, vacuum bottoms, tar and pitches in processes such as delayed coking or fluid coking. It consists mainly of carbon (90 to 95%) and has a low ash content. It is used as a feedstock in coke ovens for the steel industry, for heating purposes, for electrode manufacture and for production of chemicals. The two most important qualities are "green coke" and "calcinated coke". This category also includes "catalyst coke" deposited on the catalyst during refining processes; this coke is not recoverable and is usually burned as refinery fuel.

23. Other Products

All products not specifically mentioned above, for example: tar and sulphur. This category also includes aromatics (e.g. BTX or benzene, toluene and xylene) and olefins (e.g. propylene) produced within refineries.

GAS

1. Natural Gas

Natural gas comprises gases, occurring in underground deposits, whether liquefied or gaseous, consisting mainly of methane. It includes both "non-associated" gas originating from fields producing hydrocarbons only in gaseous form, and "associated" gas produced in association with crude oil as well as methane recovered from coal mines (colliery gas). Manufactured gas (produced from municipal or industrial waste, or sewage) should be reported in the Annual Questionnaire on Renewable and Wastes.

- **Associated Gas:** natural gas produced in association with crude oil.
- **Non-Associated Gas:** natural gas originating from fields producing hydrocarbons only in gaseous form.
- **Colliery Gas:** methane produced at coal mines, piped to the surface and consumed at collieries or transmitted by pipeline to consumers.

2. LNG

Liquid Natural Gas is produced by liquefaction of natural gas.

NEW AND RENEWABLE ENERGY

1. Fuelwood

Covers purpose-grown energy crops (poplar, willow, etc), a multitude of woody materials generated by an industrial process (wood/paper industry in particular) or provided directly by forestry such as firewood, wood chips, bark, sawdust, shavings, chips, black liquor, etc. The quantity of fuel used should be reported on a net calorific value basis.

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

Covers crushed sugar cane or beet refuse from sugar

making.

4. Charcoal

Covers the solid residue of the destructive distillation and pyrolysis of wood and other vegetal material.

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

A gas composed principally of methane and carbon dioxide produced by anaerobic digestion of biomass, comprising:

- **Landfill gas:** formed by the digestion of landfilled wastes.
- **Sewage sludge gas:** produced from the anaerobic fermentation of sewage sludge.

- **Other biogas:** such as biogas produced from the anaerobic fermentation of animal slurries and of wastes in abattoirs, breweries and other agro-food industries.

7. Industrial Waste

Wastes of industrial non-renewable origin (solids or liquids) combusted directly for the production of electricity and/or heat. The quantity of fuel used should be reported on a net calorific value basis. Renewable industrial waste should be reported in the Solid biomass, Biogas and/or Liquid biofuels categories.

8. Municipal solid waste (renewables)

Waste produced by households, industry, hospitals and the tertiary sector that contains non-biodegradable materials that are incinerated at specific installations. The quantity of fuel used should be reported on a net calorific value basis.

9. Liquid Biofuels

Biofuels cover bio-ethanol, bio-diesel, bio-methanol, bio-dimethylether, bio-oil. Liquid bio-fuels are mainly bio-diesel and bio-ethanol/ETBE used as transport fuels. They can be made from new and used vegetable oils and may be blended with or replace petroleum-based fuels. The natural plant feedstock includes soya, sunflower and oil seed rape oils. Under some circumstances, used vegetable oils may also be used as feedstock for the process.

10. Hydro

Potential and kinetic energy of water converted into electricity in hydroelectric plants. Pumped storage also

included. Detailed plant sizes should be reported net of pumped storage.

11. Geothermal

Energy available as heat emitted from within the Earth's crust, usually in the form of hot water or steam. It is exploited at suitable sites:

- **Electricity:** For Electricity generation using dry steam or high enthalpy brine after flashing.
- **Thermal:** Directly as Heat for district heating, agriculture, etc.

12. Solar

- **Pothovoltaic:** Solar energy used for electricity generation.
- **Thermal:** 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.)

13. Tide/wave/ocean

Mechanical energy derived from tidal movement or wave motion and exploited for electricity generation.

14. Wind Energy

Kinetic energy of wind exploited for electricity generation in wind turbines.

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.
- **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:** Mechanical energy derived from tidal movement or wave motion and exploited for electricity generation.

- **Wind:** Kinetic energy of wind exploited for electricity generation in wind turbines.

- **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 \pm 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 off shore 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/oxygenates by refineries and blending plants from outside the refinery sector.
- **Natural Gas:** All dry marketable production is measured after purification and extraction of NGLs and sulphur. Quantities reinjected, vented or flared, are not included. Production includes quantities used within the natural gas industry; in gas extraction, pipeline systems and processing plants.

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

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

secondary products is zero and the gross refinery output is included in the transformation sector.

Production from other sources: Production from other sources refers to both primary energy that has not been accounted for under production and secondary energy that has been accounted for in the production of another fuel. There are a few examples:

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

2. Imports and Exports

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 can not 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 the 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. 10⁷ kcal (41.863 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 1 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" energy. 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 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's 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 (Row1) + imports (Row2)

–exports (Row3) – international marine bunkers (Row4) and ± stock changes (Row5).

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, bio-fuel 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 2011

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal									
Coking Coal	6,807		6,017	6,840	5,775			6,582	6,750
Anthracite			6,301		6,565	6,998		6,104	5,780
Other Bituminous Coal	6,138		5,785	6,680	5,073	6,298		5,833	5,950
Sub-bituminous Coal	4,413		4,356				5,880	5,113	5,000
Lignite	2,341		3,412		3,363				
Peat									
Coal Products									
Patent Fuels								5,182	4,600
Coke Oven Coke	6,126		6,558	6,829	6,800			6,673	7,000
Coal Tar				9,880	8,000				
Coal Briquettes	5,015				4,170		4,740		
Crude Oil and NGL									
Crude Oil	10,328	11,312	10,220	10,314	10,000			10,140	10,199
Natural Gas Liquids	10,846	11,312	10,801	11,487				11,204	
Refinery Feedstocks	10,338		10,151					10,347	10,700
Additives/Oxygenates	6,000	9,597	10,000	5,410					1,925
Other Hydrocarbons		11,021	10,000						
Petroleum Products									
Refinery Gas	11,488	11,367	11,488	11,488	11,000			10,515	11,488
Ethane	11,799		11,799						
LPG	11,393	11,021	11,297	11,297	12,000	10,878	11,934	11,529	11,393
Naptha	10,318		10,748	10,748	9,176	10,540	11,064	10,346	10,318
Motor Gasoline	10,653	10,686	10,700	10,700	10,300	10,217	11,064	10,655	10,653
Bio-ethanol	6,401		6,401				3,702		
Aviation Gasoline	10,653		10,700	10,700			9,801		10,653
Gasoline Type Jet Fuel			10,700		10,300				10,653
Kerosene Type Jet Fuel	10,629	10,646	10,653	10,653	10,300	10,262	10,398	10,632	10,629
Other Kerosene	10,247	10,646	10,461	10,461	10,300	10,522	10,212	10,232	10,247
Gas/Diesel Oil	10,175	10,359	10,175	10,342	10,200	10,148	9,166	10,338	10,175
Bio-diesel	8,790		10,350			9,028	3,702		9,126
Fuel Oil	10,175	9,714	9,602	9,602	10,000	9,912	10,319	10,566	10,175
White Spirit SBP	10,270		10,270	9,602	9,176				10,270
Lubricants	10,247	9,982	10,032	9,602	9,176		9,996	10,236	10,247
Bitumen	9,267	9,522	9,554	9,602	9,176				9,267
Paraffin Wax	9,554		9,554	9,602	9,176		9,996		9,554
Petroleum Coke	8,073		7,643	7,643	7,350			6,785	8,073
Other Products	9,554		9,554	9,554	9,310		9,996	9,287	9,554
Natural Gas									
Natural Gas	8,718	9,290	8,289	8,407	9,310	9,034	8,885	8,415	8,969
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	6,897		6,897	6,897		6,998		6,898	6,897
Other Biomass	3,701		3,701	3,701			3,702		3,701
Biogas									
Industrial Waste	3,343		3,343	3,343	1,188			3,344	3,343
Municipal Solid Waste	3,343		3,343	3,343	6,650			3,344	3,343
Liquid Biofuels	6,386		6,386	6,386		9,028			6,386

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 2011 (continued)

											kcal/kg (kcal/m ³ for Natural Gas)	
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam (2010)	
	7,030	7,127				6,807		6,660		6,705	5,600	
				6,500		6,927		6,745	7,500	6,879	5,600	
		6,703		6,500		5,734		5,652	6,300	6,273	5,600	
5,985	4,862	4,927			5,278			4,670		4,531		
	3,368	3,474				3,563		3,957	2,500	3,332		
						2,380					5,600	
								3,610				
	6,334			6,735		6,930		6,650	6,600	6,889	5,600	
						4,200			6,300			
10,301	11,172	10,322	10,120	10,271	9,905	10,050	10,709	10,442	10,089	10,315	10,180	
	10,189	10,938	10,120	9,884	7,694	10,010			11,757	10,993		
10,349		10,526								10,480		
	5,207	7,471								2		
10,150										12,182		
10,149	11,488	11,488	10,515	14,992		11,820	11,500	14,996		11,488		
	11,799	11,300				11,820				11,799		
10,877	11,297	11,393	11,393	11,080	10,760	10,990	11,923	11,893	11,778	11,297	10,900	
	10,748	10,750	10,500		11,031	10,510	11,923	10,924		10,748	10,300	
10,500	10,700	10,653	10,654	10,402	10,570	10,510	11,174	10,494	10,450	10,700	10,500	
		6,400		6,344	7,083	6,400			10,319	6,388		
	10,700	10,653			10,894	10,510		10,669		10,700		
		10,653				10,270		10,485		10,700		
10,316	10,653	10,629	10,632	10,231	9,957	10,270	12,425	10,038	11,675	10,653	10,300	
10,150	10,461	10,247	10,233	10,231	9,855	10,270	11,140	10,600	10,310	10,461	10,300	
10,150	10,175	10,175	10,284	9,847	10,049	10,170	10,957	10,066	10,236	10,175	10,200	
		10,350		12,171	9,416	8,790			10,112	9,777		
9,912	9,602	10,175	10,520	10,381	9,819	9,550	9,839	10,027	10,105	9,602	9,900	
	10,270	10,270				10,410		11,538		10,270		
	10,032	10,247	10,240			10,030		9,600		10,032	10,300	
	9,554	9,267			9,248	9,310		10,000		9,554	10,300	
	9,554	9,600				9,550		10,664		9,554		
	7,643	8,073	8,078			7,640		8,200		7,643	10,300	
10,150	9,554	9,554	9,602	10,242	9,864	9,550	10,320	12,496		9,554	10,300	
8,385	8,511	7,985	8,113	9,657	8,737	8,218	8,385	9,000	8,617	8,189	9,000	
4,456	3,701	3,701		3,598	3,455	3,701		3,039	3,820	3,701	238,800	
	1,958	1,958		1,499	2,166	1,958			1,800	1,958		
	6,897	6,897		6,558	6,313	6,897			6,900	6,897		
4,456	3,701	3,701		3,596	3,163	3,701			3,030	3,701		
								3,690	5,000			
	3,343	3,343				3,343				3,343		
4,456	3,343	3,343			3,344	3,343	3,344	2,092	1,160	3,343		
6,400	6,386	6,386		11,788	8,618	6,386			10,334	6,386		

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