

APEC

ENERGY STATISTICS 2009

ENERGY WORKING GROUP
OCTOBER 2011
COORDINATING AGENCY:
THE ENERGY DATA AND MODELLING CENTER
THE INSTITUTE OF ENERGY ECONOMICS, JAPAN

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Economic Cooperation

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PREFACE

The APEC Energy Statistics 2009 consists of the following chapters:

1. Explanation of the APEC Energy Statistics
2. Overview of the APEC Energy Situation
3. Member 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 by member economies. The annual tables contain Energy Balance Tables for 2009 and 2008 and Energy Prices for 2009. 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 1980 to 2009 except Russia and Viet Nam which do not have data in the 1980's. The objective is to report the most recently updated data.

APEC Energy Statistics 2009 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 of 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 2010. In principle, all twenty-one APEC members are expected to submit annual data to the C.A. on the aforementioned deadline. Indonesia, New Zealand, Philippines and Chinese Taipei were able to submit the 5 energy questionnaires by the deadline. Three non-OECD APEC economies submitted after December 2010. Peru, Thailand and Vietnam did not submit the questionnaires.

For Peru, the C.A. downloaded the energy balance data from the website of the Ministry of Mines and Energy of Peru. Thailand submitted its energy balance publication while Viet Nam provided its energy balance table. For these 3 economies, the C.A. filled-out the data in the questionnaires. Papua New Guinea and Singapore were also not able to provide annual energy data using the questionnaires. Most of the energy data of these two economies were estimated by the C.A.

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, 2011, 18 APEC economies have submitted data to the C.A., one economy more than the 17 that submitted last year. Viet Nam submitted their energy balance table for 2009. There was no submission from Peru. Fortunately, the C.A. was able to download their energy data from the Peru Ministry of Mines and Energy website. Of the remaining two economies, Papua New Guinea submitted crude oil and natural gas production, exports as well as refinery input and output data while Singapore 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 Joint Oil Data Initiative (JODI). The C.A. will highly appreciate if Singapore does the estimation of the data and submit the data to C.A. 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 2000 to 2009 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 2009 data for reasons not explained to the C.A. To be able to produce Peru's energy balance and other tables, the C.A. downloaded the energy balances from the website of Peru Ministry of Mines and Energy.

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 1980 to 2009.

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.).

e. Viet Nam

Viet Nam did not submit annual energy data in the APEC format for 2009 but its energy balance table prepared by the Institute of Energy. In this regard, the C.A. entered the data into the APEC format and generated the energy balance table.

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, Thailand and Viet Nam

c. Oceania:

Australia, New Zealand and Papua New Guinea

d. North America:

Canada and the United States of America

e. Latin America:

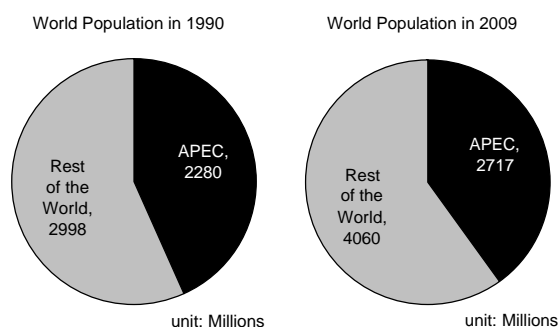
Chile, Mexico and Peru

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

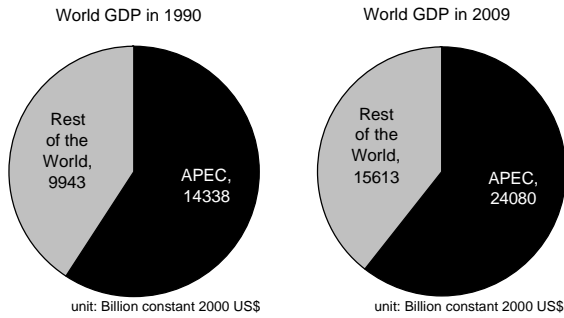
APEC population grew at an average annual rate of 0.9% from 1990 to 2.7 billion in 2009. On the other hand, that of the rest of the world grew by 1.6% per year from 3.0 billion to 4.1 billion during the same period. In view of this, APEC's share of the total population decreased to 40.1% in 2009 from 43.2% in 1990.

APEC's share of the world GDP (constant 2000 in US\$) increased from 59.0% in 1990 to 60.7% in 2009. The average growth rate of GDP in APEC from 1990 to 2009 is 2.8% per annum.



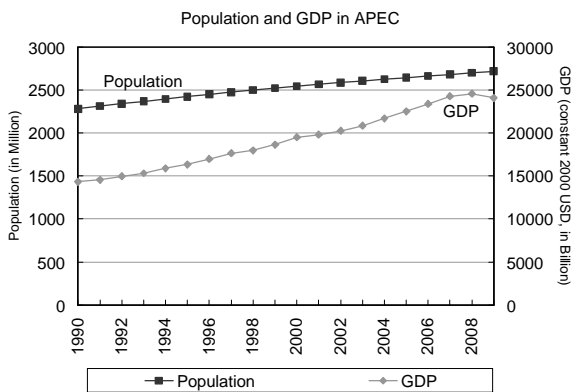
Source: World Bank

Population in 1990 and 2009

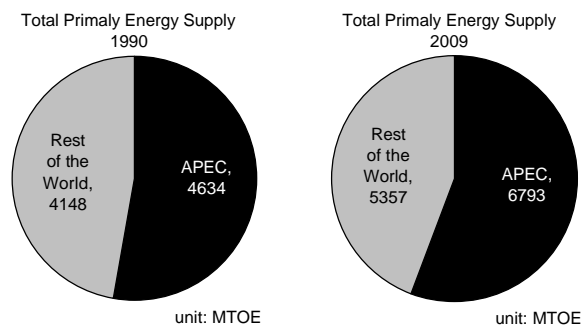


Source: World Bank

GDP in 1990 and 2009



In 1990, APEC's share in the world total primary energy supply was 52.8% (4,634 Mtoe). This increased to 55.9% (6,793 Mtoe) in 2009 and could be attributed to the faster economic growth in the region relative to the rest of the world.



Source: APEC, IEA

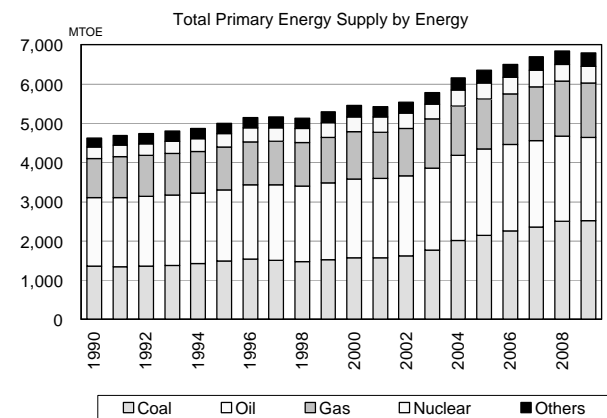
Total Primary Energy Supply in 1990 and 2009

2.3 Energy Supply in APEC

2.3.1 Total Primary Energy Supply

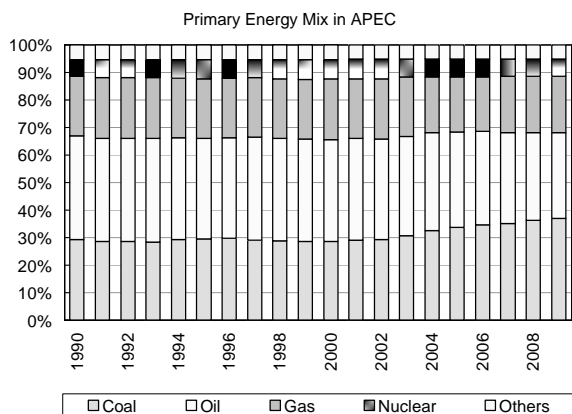
The level of primary energy supply in 2009 of 6,793 Mtoe decreased by 0.7% from the 2008 level of 6,843 Mtoe. However, in the period 1990 to 2009, primary energy supply had an average growth rate of 2.0% per annum.

During the same period, coal supply rose at an average rate of 3.3% per annum to reach 2,519 Mtoe. Oil supply rose at an average rate of 1.0% per annum to reach 2,121 Mtoe. However, it decreased by 2.6% from 2008. Gas supply increased by 1.7% per annum to reach 1,382 Mtoe. The supply of nuclear grew by 2.2% per annum to reach 424 Mtoe. Other energy, which includes hydro and other renewable energy, grew by 1.9% per annum although their total remained small at 345 Mtoe.



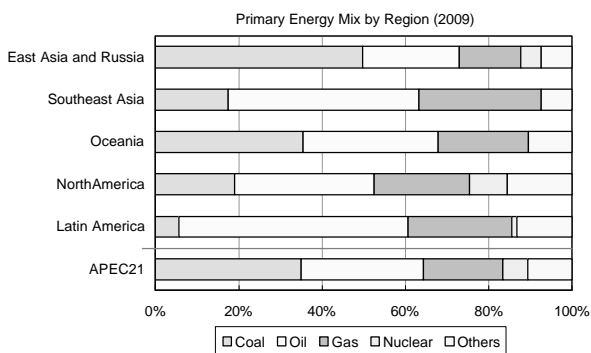
- Primary Energy Mix

The APEC primary energy mix has changed over time from 1990 to 2009. The share of coal, which was 29.3% in 1990, increased to 37.1% in 2009. In contrast, the share of oil decreased to 31.2% in 2009 from 37.8% in 1990. The share of nuclear energy also increased from 6.1% in 1990 to 6.2% in 2009.



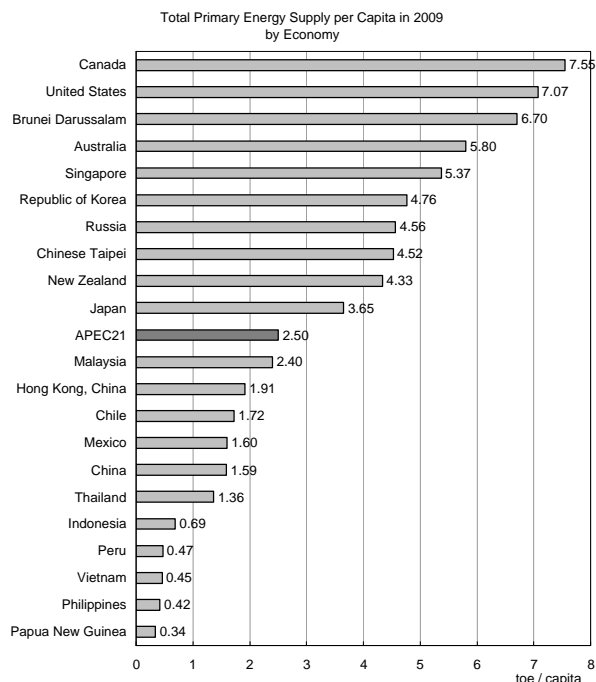
- Primary Energy Mix by region

In East Asia and Russia, the share of coal was 52.3%, higher than other regions. On the other hand, oil was the main energy source in Southeast Asia (45.8%) and Latin America (55.7%). The share of nuclear energy in North America was higher than other regions, at 9.9% in 2009.



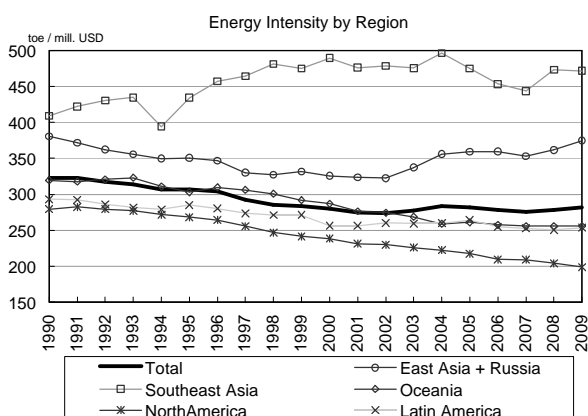
- Total Primary Energy Supply per Capita

The average primary energy supply per capita in APEC region was 2.50 toe per capita in 2009. OECD member economies have higher than average values. In contrast, several Southeast Asian and Latin American economies have lower values.



- Energy Intensity

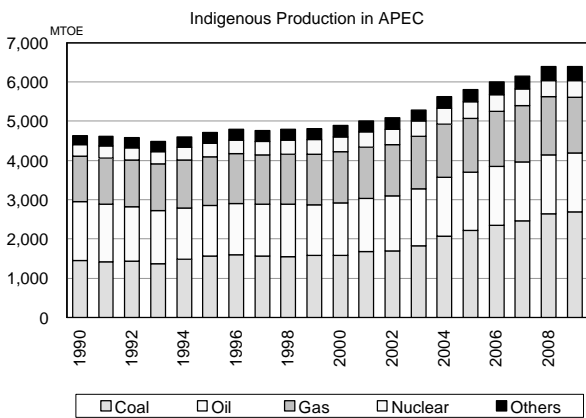
The energy intensity (*Total Primary Energy Supply / GDP in constant 2000 USD*) was 282.1 toe/mill USD in 2009, a 0.7% decrease per annum from 1990. From 1990 to 2009, energy intensity increased only in Southeast Asia, from 409.2 to 471.6 toe/mill USD (0.8% per annum from 1990) but has decreased in rest of the regions.



2.3.2 Indigenous Production

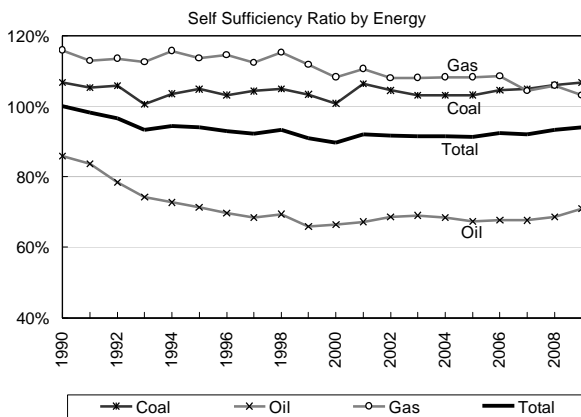
Indigenous energy production in 2009 of 6,388 Mtoe decreased by 0.03% from the 2008 level of 6,390 Mtoe.

In contrast, in the period of 1990 to 2009, indigenous production had an average growth rate of 1.7% per annum.



- Self Sufficiency

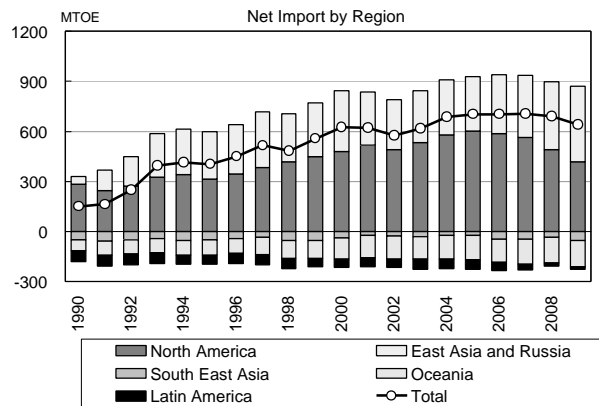
The self sufficiency ratio (*Indigenous Production / Total Primary Energy Supply*) of the APEC region was 100.1% in 1990 but has decreased to 94.0% in 2009. Self sufficiency ratios in coal and gas were over 100%. Self sufficiency ratio in oil is only 70.9% in 2009 decreasing from 85.8% in 1990.



2.3.3 Net Import by Region

Net import (*import – export*) in the APEC region was 640 Mtoe in 2009, increasing by 7.9% 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.

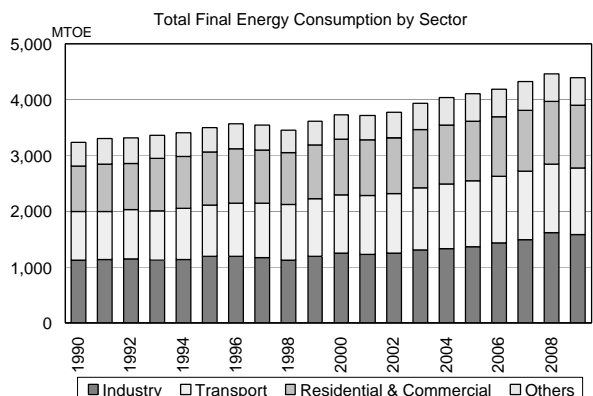


2.4 Total Final Energy Consumption in APEC

2.4.1 Total Final Energy Consumption by Sector

The level of final energy consumption in 2009 of 4,394 Mtoe decreased by 1.7% from the 2008 level of 4,468 Mtoe. The growth rate was 1.6% per annum from 3,236 Mtoe in 1990.

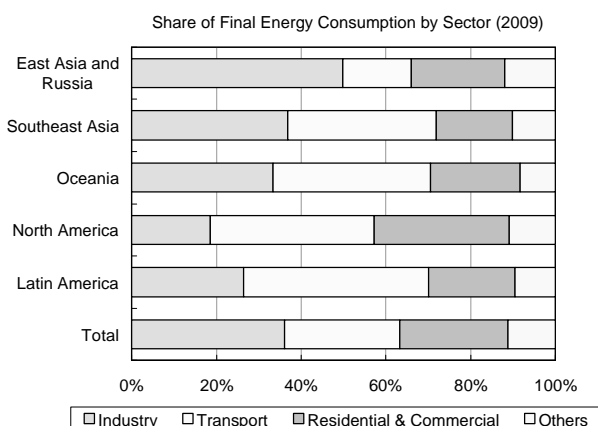
Consumption in industry sector of 1,586 Mtoe was the largest for all sectors in 2009 with a share of 36.1% to the total final consumption. The transport sector share was 27.2% while the residential/commercial sector share was 25.4%.



The final energy consumption of the residential/commercial and other sectors decreased by 0.6%, from 1,125 Mtoe in 2008 to 1,118 Mtoe in 2009. The transport sector consumption also decreased by 2.0% from 1,219

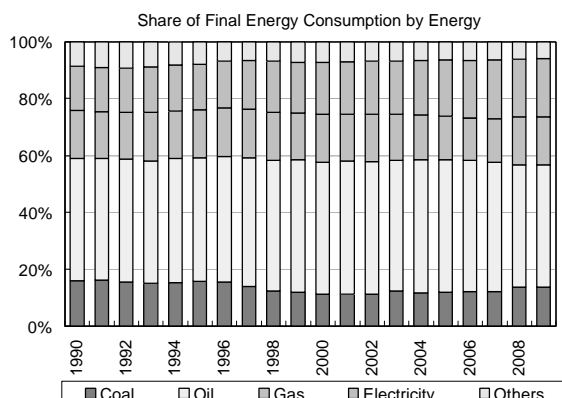
Mtoe in 2008 to 1,194 Mtoe in 2009. Industrial sector consumption decreased by 2.1% from 1,620 Mtoe in 2008 to 1,586 Mtoe in 2009.

In East Asia and Russia region, consumption in industry sector of 1,112 Mtoe was the largest for all sectors in 2009 with a share of 49.9% to the total final consumption. In North American region, industry share was only 18.5% while the transport sector took the highest share of 38.7% in 2009.



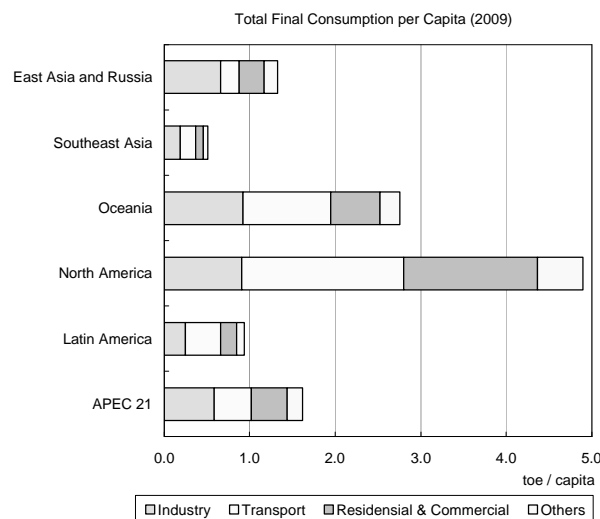
2.4.2 Final Energy Consumption by Energy

In 2009, oil share in the final energy consumption was 43.1% (1,892 Mtoe). Electricity share was 20.6% (906 Mtoe) increasing from 15.5% (502 Mtoe) in 1990 .



2.4.3 Final Consumption per Capita

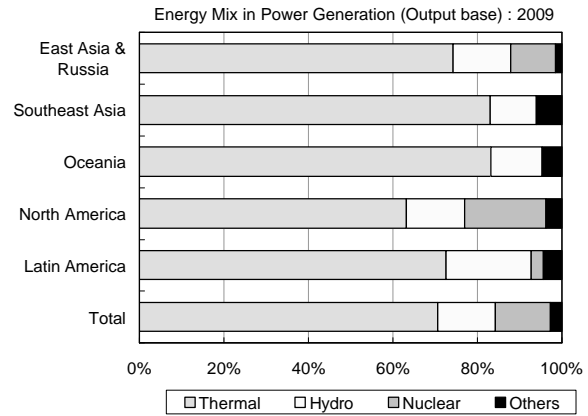
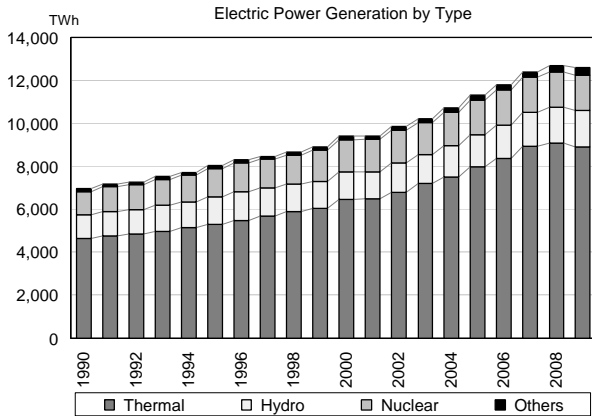
Total final consumption per capita was 1.62 toe in 2009. In Southeast Asia, final energy consumption per capita is 0.51 toe per capita. the lowest in APEC. In Oceania and North American, final energy consumption per capita were higher; 2.76 toe per capita in Oceania and 4.89 toe per capita in North America.



2.5 Power Generation

2.5.1 Power Generation Output

Power generation decreased by 0.5% from 12,669 TWh in 2008 to 12,572 TWh in 2009. From 1990 to 2009, power generation grew at an average rate of 3.2% per annum (from 6,961 TWh). Thermal power generation decreased by 2.0% from 9,079 TWh in 2008 to 8,885 TWh in 2009. As a result, the share of thermal power generation decreased to 70.7% of the total in 2009 from 71.7% in 2008. Nuclear power generation increased by 0.8%, from 1,617 TWh in 2008 to 1,629 TWh in 2009. Hydropower generation rose by 2.4% from 1,683 TWh in 2008 to 1,723 TWh in 2009.



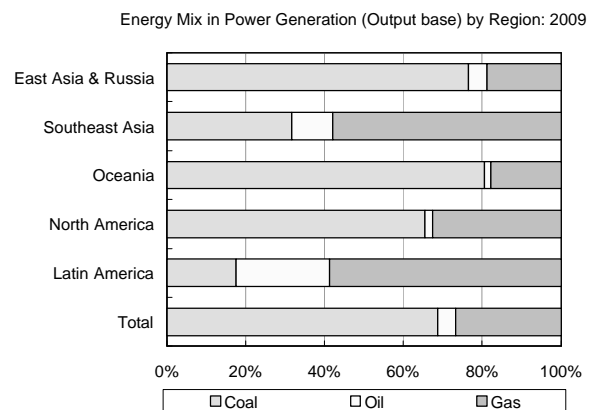
- Power Generation Mix by Region

In APEC region, 70.7% are from thermal generation (coal, oil and natural gas), 13.7% by hydro and 13.0% by nuclear energy in 2009.

In East Asia and Russia region, the share of thermal energy is 74.2%, while that of nuclear energy was 10.7%. In Southeast Asia and Oceania, more than 80% of electricity was generated from thermal sources and there are no nuclear power generation. In North America, 19.2% are generated by nuclear energy. In Latin America, the share of hydro of 20.2% was higher than the APEC average of 13.7% in 2009.

2.5.2 Fossil Fuel Consumption for Thermal Power

In 2009, 68.7% of electricity was generated by coal, 4.6% by oil and 26.8% by natural gas. In Southeast Asia and Latin America, gas was the largest energy source for thermal power generation.



APEC Region	2009											Unit: Mtoe
	1 Coal	2 Coal Products	3 Crude Oil, NGL and Condensate	4 Petroleum Products	5 Gas	6 Hydro	7 Nuclear	8 Geothermal, Solar, etc.	9 Others	10 Electricity	11 Heat	12 Total
1 Indigenous Production	2,689	-	1,494	10	1,424	148	424	55	144	-	-	6,388
2 Import	336	7	1,291	431	273	-	-	-	1	9	-	2,348
3 Export	-432	-3	-510	-433	-319	-	-	-	-1	-10	-	-1,709
4 International Marine Bunkers	-	-	-	-90	-	-	-	-	-	-	-	-90
5 International Aviation Bunkers	-	-	-	-59	-	-	-	-	-	-	-	-59
6 Stock Change	-62	-16	-10	-3	5	-	-	-	-0	-	-	-86
7 Total Primary Energy Supply	2,531	-11	2,266	-145	1,382	148	424	55	143	-1	-	6,793
8 Main Activity Producer	-1,437	-5	-3	-55	-454	-91	-424	-51	-16	1,012	99	-1,427
9 Autoproducer	-105	-15	-1	-28	-124	-4	-	-1	-25	70	119	-113
10 Gas Processing	-9	-1	-	-1	75	-	-	-	-	-	-	64
11 Petroleum Refineries	-	-	-2,230	2,203	-	-	-	-	-	-	-	-27
12 Coal Transformation	-358	156	-	-1	-0	-	-	-	-	-	-	-203
13 Other Transformation	-	-	27	-6	-2	-	-	-	-25	-	-	-6
14 Loss & Own Use	-79	-12	-10	-109	-141	-53	-	-0	-0	-166	-41	-611
15 Discrepancy	-53	-4	-6	-21	2	-1	0	-0	3	-8	-1	-89
16 Total Final Energy Consumption	490	109	9	1,884	738	-	-	3	80	906	175	4,394
17 Industry Sector	395	102	2	244	322	-	-	0	48	388	83	1,586
18 Transport Sector	4	0	-	1,119	56	-	-	-	-	16	-	1,194
19 Other Sector	91	6	0	232	313	-	-	3	32	502	92	1,271
19.1 Residential & Commercial	72	6	-	153	310	-	-	3	31	455	88	1,118
19.2 Agriculture	8	0	0	47	1	-	-	0	1	13	3	73
19.3 Other	10	0	0	32	2	-	-	0	0	34	2	80
20 Non-energy	-	-	6	290	47	-	-	-	-	-	-	343

2.6 Energy Balance Table

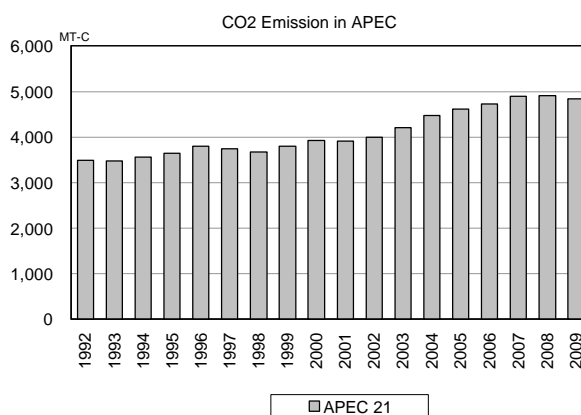
This section presents the 2009 aggregate energy balance table for the APEC region. Note that the export/import row does not show the volume of trade between APEC and non-APEC regions.

Some of the salient points on the table are:

- 60.9% of coal is used for power generation.
- The percentage share of gas consumption is third (16.8%), behind petroleum products (42.9%) and electricity (20.6%).
- 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 4.0% of final consumption.
- Oil and Petroleum Products accounted for 43.1% of total final energy consumption, followed in order, by electricity, gas, and coal.

2.7 CO₂ Emissions

The CO₂ emission data for 2009 were collected from 5 member economies, namely: Chile; Japan; New Zealand; Peru 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 decreased by 1.6% from 4,912 Mt-C in 2008 to 4,832 Mt-C in 2009, or 2.0% per annum from 3,317 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	
2009									
Indigenous Production	222,226	-	25,503	-	-	-	-	-	-
Import	-	-	19,876	15,565	3,182	-	1,705	-	7,081
Export	-169,045	-	-15,421	-997	-231	-	-89	-	-307
International Marine Bunkers	-	-	-	-825	-	-	-	-	-62
International Aviation Bunkers	-	-	-	-3,119	-	-	-3,119	-	-
Stock Changes	-2,453	202	41	-267	-44	-19	-37	3	-200
Total Primary Energy Supply	50,728	202	29,999	10,357	2,907	-19	-1,540	3	6,511
Transfers	-	-	4,440	1,124	-	-	-	-	-
Total Transformation Sector	-47,791	1,068	-33,244	32,481	13,752	262	4,645	59	10,014
Main Activity Producer	-44,958	-322	-	-624	-	-	-	-	-491
Autoproducers	-	-16	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-33,463	33,122	13,752	262	4,645	59	10,506
Coal Transformation	-2,833	1,405	-	-17	-	-	-	-	-
Other Transformation	-	-	219	-	-	-	-	-	-
Loss & Own Use	-	-496	-110	-2,061	-	-	-	-11	-871
Discrepancy	-442	9	-1,048	-3,905	-1,913	-226	-1,019	-38	-937
Total Final Energy Consumption	2,495	782	38	37,996	14,746	18	2,085	13	14,717
Industry Sector	2,401	763	38	3,828	-	18	-	-	2,577
Iron and Steel	10	382	-	56	-	-	-	-	44
Chemical & Petrochemical	48	169	-	175	-	-	-	-	99
Non-metallic Minerals	643	13	-	185	-	-	-	-	38
Other Industries	1,699	199	38	3,412	-	18	-	-	2,397
Transport Sector	79	-	-	27,972	14,613	-	2,085	-	9,758
Domestic Air Transport	-	-	-	2,159	74	-	2,085	-	-
Road	-	-	-	24,292	14,539	-	-	-	8,385
Rail	-	-	-	773	-	-	-	-	773
Inland Waterways	79	-	-	588	-	-	-	-	441
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	160	-	-	-	-	159
Other Sector	15	19	-	2,965	133	-	-	8	2,382
Residential	-	1	-	344	-	-	-	-	26
Commerce and Public Services	15	18	-	607	-	-	-	7	518
Agriculture	-	-	-	2,014	133	-	-	1	1,838
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	3,231	-	-	-	5	-
2008									
Indigenous Production	217,400	-	23,859	-	-	-	-	-	-
Import	-	4	21,339	14,386	2,750	-	1,554	-	6,412
Export	-163,964	-	-14,992	-1,516	-560	-	-125	-	-396
International Marine Bunkers	-	-	-	-953	-	-	-	-	-66
International Aviation Bunkers	-	-	-	-3,053	-	-	-3,053	-	-
Stock Changes	-2,107	-456	179	127	28	-	32	-3	-79
Total Primary Energy Supply	51,329	-452	30,384	8,991	2,217	-	-1,592	-3	5,871
Transfers	-	-	3,684	1,053	-	-	-	-	-
Total Transformation Sector	-48,178	2,190	-32,608	32,399	13,651	392	4,380	86	9,919
Main Activity Producer	-44,440	-334	-	-668	-	-	-	-	-508
Autoproducers	-	-16	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-32,759	33,089	13,651	392	4,380	86	10,426
Coal Transformation	-3,738	2,541	-	-21	-	-	-	-	-
Other Transformation	-	-	150	-	-	-	-	-	-
Loss & Own Use	-	-691	-92	-2,176	-	-	-	-9	-804
Discrepancy	-398	-71	-1,328	-2,017	-831	-375	-725	-58	-338
Total Final Energy Consumption	2,753	977	39	38,250	15,037	18	2,063	15	14,648
Industry Sector	2,664	954	39	3,897	-	18	-	-	2,686
Iron and Steel	10	501	-	56	-	-	-	-	43
Chemical & Petrochemical	53	233	-	202	-	-	-	-	110
Non-metallic Minerals	677	15	-	177	-	-	-	-	41
Other Industries	1,923	204	39	3,462	-	18	-	-	2,493
Transport Sector	71	-	-	28,138	14,927	-	2,063	-	9,629
Domestic Air Transport	-	-	-	2,129	66	-	2,063	-	-
Road	-	-	-	24,520	14,861	-	-	-	8,300
Rail	-	-	-	750	-	-	-	-	750
Inland Waterways	71	-	-	578	-	-	-	-	419
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	161	-	-	-	-	160
Other Sector	18	24	-	2,882	110	-	-	10	2,333
Residential	1	1	-	345	-	-	-	-	28
Commerce and Public Services	17	23	-	592	-	-	-	9	508
Agriculture	-	-	-	1,945	110	-	-	1	1,797
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	3,333	-	-	-	5	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	41,184	1,057	-	548	5,764	-	-	296,282
1,624	555	-	-	1,418	5,122	-	-	-	-	-	-	40,563
-182	-	-	-	-187	-18,020	-	-	-	-	-	-	-203,483
-763	-	-	-	-	-	-	-	-	-	-	-	-825
-	-	-	-	-	-	-	-	-	-	-	-	-3,119
-3	16	-	-	17	-	-	-	-	-	-	-	-2,477
676	571	-	-	1,248	28,286	1,057	-	548	5,764	-	-	126,941
-	538	-	375	211	-	-	-	-	-	-	-	5,564
756	878	744	-	1,370	-8,237	-1,057	-	-351	-1,789	22,443	-	-36,478
-132	-	-	-	-	-5,193	-1,057	-	-328	-799	21,342	-	-31,939
-	-	-	-	-	-2,712	-	-	-24	-772	1,101	-	-2,422
-	-	-	-	-	-265	-	-	-	-	-	-	-265
906	878	744	-	1,370	-	-	-	-	-	-	-	-341
-17	-	-	-	-	-67	-	-	-	-	-	-	-1,512
-	-	-	-	-	-	-	-	-	-218	-	-	1
-61	-52	-684	-	-382	-8,070	-	-	-	-	-4,059	-	-14,796
-319	439	0	-21	131	1,236	-	-	-	0	0	-	-4,150
1,051	2,373	61	354	2,577	13,215	-	-	197	3,975	18,384	-	77,082
900	268	61	-	4	8,151	-	-	-	2,607	8,076	-	25,864
-	13	-	-	-	455	-	-	-	-	678	-	1,582
15	-	61	-	-	1,286	-	-	-	111	362	-	2,150
11	132	-	-	4	1,293	-	-	-	-	351	-	2,485
874	123	-	-	-	5,117	-	-	-	2,496	6,685	-	19,647
148	1,368	-	-	-	417	-	-	-	-	246	-	28,714
-	-	-	-	-	-	-	-	-	-	-	-	2,159
-	1,367	-	-	-	38	-	-	-	-	-	-	24,329
-	-	-	-	-	-	-	-	-	-	211	-	984
148	-	-	-	-	-	-	-	-	-	-	-	667
-	-	-	-	-	361	-	-	-	-	0	-	361
-	1	-	-	-	18	-	-	-	-	36	-	214
3	439	-	-	-	4,029	-	-	197	1,368	10,062	-	18,655
-	318	-	-	-	3,012	-	-	190	1,361	5,104	-	10,013
3	79	-	-	-	1,015	-	-	7	7	4,810	-	6,478
-	42	-	-	-	3	-	-	-	-	148	-	2,165
-	-	-	-	-	-	-	-	-	-	-	-	-
-	298	-	354	2,573	617	-	-	-	-	-	-	3,848
-	-	-	-	-	39,391	1,037	-	437	5,874	-	-	287,998
1,567	562	-	-	1,542	4,346	-	-	-	-	-	-	40,075
-247	-	-	-	-187	-15,995	-	-	-	-	-	-	-196,468
-887	-	-	-	-	-	-	-	-	-	-	-	-953
-	-	-	-	-	-	-	-	-	-	-	-	-3,053
7	-18	-	-	161	-	-	-	-	-	-	-	-2,257
440	543	-	-	1,515	27,742	1,037	-	437	5,874	-	-	125,342
-	401	-	442	209	-	-	-	-	-	-	-	4,736
819	910	936	-	1,305	-8,161	-1,037	-	-280	-1,758	22,123	-	-35,310
-161	-	-	-	-	-5,131	-1,037	-	-267	-818	21,017	-	-31,679
-	-	-	-	-	-2,678	-	-	-13	-790	1,106	-	-2,392
-	-	-	-	-	-270	-	-	-	-	-	-	-270
1,001	910	936	-	1,305	-	-	-	-	-	-	-	330
-21	-	-	-	-	-82	-	-	-	-	-	-	-1,300
-	-	-	-	-	-	-	-	-	-150	-	-	1
-69	-51	-862	-	-381	-7,338	-	-	-	-	-3,879	-	-14,175
-156	512	-0	-21	-25	1,083	-	-	-	0	0	-	-2,731
1,034	2,315	75	421	2,624	13,326	-	-	157	4,116	18,244	-	77,862
872	243	75	-	4	8,354	-	-	-	2,680	8,159	-	26,747
-	14	-	-	-	570	-	-	-	-	711	-	1,850
17	-	75	-	-	1,388	-	-	-	122	375	-	2,373
12	120	-	-	4	1,319	-	-	-	-	370	-	2,559
842	109	-	-	-	5,077	-	-	-	2,558	6,702	-	19,965
159	1,360	-	-	-	403	-	-	-	-	242	-	28,854
-	-	-	-	-	-	-	-	-	-	-	-	2,129
-	1,359	-	-	-	36	-	-	-	-	-	-	24,556
-	-	-	-	-	-	-	-	-	-	205	-	955
159	-	-	-	-	-	-	-	-	-	-	-	649
-	-	-	-	-	349	-	-	-	-	0	-	349
-	1	-	-	-	18	-	-	-	-	36	-	215
3	426	-	-	-	3,877	-	-	157	1,436	9,844	-	18,238
-	317	-	-	-	2,952	-	-	152	1,428	5,005	-	9,885
3	72	-	-	-	923	-	-	5	8	4,678	-	6,244
-	38	-	-	-	3	-	-	-	-	161	-	2,109
-	-	-	-	-	-	-	-	-	-	-	-	-
-	286	-	421	2,620	691	-	-	-	-	-	-	4,023

Major Energy Indicators of Australia

ktoe

	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	69,279	86,847	107,967	115,885	117,802	121,431	125,342	126,941
Indigenous Production	86,084	158,144	233,412	267,916	268,084	288,376	287,998	296,282
Import	13,902	14,398	26,382	31,095	33,198	36,351	40,075	40,563
Export	-32,208	-78,900	-153,518	-178,900	-178,921	-191,632	-196,468	-203,483
Final Energy Consumption	51,533	56,459	69,566	75,111	74,446	76,003	77,862	77,082
Industry	23,239	19,121	23,777	25,632	25,659	26,091	26,747	25,864
Transport	17,547	21,111	25,658	27,739	27,586	28,091	28,854	28,714
Residential	-	7,490	9,061	9,524	9,473	9,669	9,885	10,013
Commerce & Public Services	-	3,481	5,041	5,910	5,985	6,123	6,244	6,478
Others	10,747	5,256	6,029	6,306	5,742	6,051	6,132	6,013
Coal, Coal Products								
Primary Energy Supply	26,403	34,980	48,156	50,750	50,916	51,404	50,878	50,930
Indigenous Production	51,868	106,103	164,578	201,952	201,305	217,133	217,400	222,226
Import	-	-	-	-	31	27	4	-
Export	-28,645	-67,248	-121,425	-150,297	-149,984	-158,314	-163,964	-169,045
Transformation Sector	-	-30,398	-43,637	-46,620	-46,733	-46,398	-45,988	-46,723
Power Generation	-19,184	-28,773	-42,200	-44,765	-45,456	-45,194	-44,791	-45,295
Final Energy Consumption	7,328	4,204	4,115	3,476	3,469	3,456	3,730	3,277
Industry	7,107	3,993	3,979	3,311	3,335	3,323	3,617	3,164
Transport	4	72	88	92	79	85	71	79
Residential	-	12	2	3	3	3	2	1
Commerce & Public Services	-	126	45	69	53	45	39	33
Others	217	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	29,632	33,074	36,577	30,792	30,407	30,650	30,384	29,999
Indigenous Production	19,906	29,026	33,910	24,129	23,079	25,301	23,859	25,503
Import	9,891	10,210	22,314	21,377	20,002	20,740	21,339	19,876
Export	-107	-5,856	-19,365	-14,828	-12,550	-15,103	-14,992	-15,421
Transformation Sector	-	-29,442	-37,085	-34,075	-33,303	-34,854	-32,608	-33,244
Petroleum Refineries	-29,788	-29,442	-37,085	-34,086	-33,351	-34,953	-32,759	-33,463
Petroleum Products								
Primary Energy Supply	805	-1,873	-2,425	4,768	6,184	5,596	8,991	10,357
Import	4,012	4,188	4,068	9,719	11,959	10,986	14,386	15,565
Export	-3,456	-3,447	-3,463	-1,515	-1,776	-1,455	-1,516	-997
Transformation Sector	-	31,098	37,709	33,898	31,156	31,986	32,399	32,481
Power Generation	-1,132	-946	-525	-479	-593	-521	-668	-624
Petroleum Refineries	30,525	32,061	38,258	34,399	31,772	32,528	33,089	33,122
Final Energy Consumption	27,930	28,995	34,714	36,760	36,280	37,227	38,250	37,996
Industry	7,003	2,885	3,548	3,485	3,588	3,673	3,897	3,828
Transport	17,466	20,874	25,064	27,079	26,904	27,382	28,138	27,972
Residential	-	378	350	293	263	318	345	344
Commerce & Public Services	-	256	313	482	568	591	592	607
Others	3,461	4,602	5,440	5,421	4,958	5,264	5,278	5,245
Natural Gas								
Primary Energy Supply	7,794	15,344	19,095	22,966	23,526	26,811	27,742	28,286
Indigenous Production	7,794	17,693	28,360	35,226	36,933	38,973	39,391	41,184
Import	-	-	-	-	1,204	4,598	4,346	5,122
Export	-	-2,350	-9,265	-12,260	-14,611	-16,760	-15,995	-18,020
Transformation Sector	-	-4,092	-4,428	-8,277	-7,958	-8,175	-8,161	-8,237
Power Generation	-1,642	-3,471	-4,061	-7,864	-7,551	-7,829	-7,809	-7,905
Final Energy Consumption	5,851	8,810	11,459	13,444	13,157	13,267	13,326	13,215
Industry	4,366	5,666	7,165	8,408	8,298	8,428	8,354	8,151
Transport	-	10	304	353	379	396	403	417
Residential	-	1,934	2,564	2,968	2,908	2,908	2,952	3,012
Commerce & Public Services	-	750	1,083	982	948	907	923	1,015
Others	1,485	450	342	733	625	627	693	620
Electricity								
Power Generation	8,261	13,332	18,080	21,119	21,271	21,591	22,123	22,443
Thermal	7,076	11,343	15,938	18,581	18,610	18,965	19,198	19,463
Hydro	1,185	1,280	1,438	1,343	1,378	1,248	1,037	1,057
Nuclear	-	-	-	-	-	-	-	-
Others	-	709	703	1,196	1,283	1,377	1,889	1,922
Final Energy Consumption	6,966	11,112	14,857	17,334	17,442	17,769	18,244	18,384
Industry	2,948	5,090	6,624	7,839	7,830	7,977	8,159	8,076
Transport	77	155	201	215	225	228	242	246
Residential	-	3,315	4,194	4,763	4,823	4,838	5,005	5,104
Commerce & Public Services	-	2,348	3,590	4,365	4,404	4,567	4,678	4,810
Others	3,940	204	248	152	160	160	161	148

Major Economic Indicators of Australia

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	14.69	17.07	19.15	20.39	20.70	21.07	21.43	21.87
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	198.81	276.29	384.89	450.26	464.08	481.58	499.54	505.99
Real Term (Billions of 2000 Price and 2000 PPP)	261.43	363.31	506.12	592.08	610.26	633.26	656.88	665.36
Nominal (Billions of Current USD)	154.09	319.05	384.89	707.05	753.62	913.19	991.25	979.67
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	13,532	16,190	20,095	22,077	22,422	22,853	23,308	23,131
Real Term (2000 Price and 2000 PPP)	17,794	21,290	26,425	29,031	29,484	30,052	30,650	30,416
Nominal (Current USD)	10,488	18,696	20,095	34,668	36,410	43,336	46,251	44,785
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	135.33	408.72	663.87	925.86	1,000.79	1,091.33	1,181.75	1,256.12
Household Final Consumption Expenditure, etc.	75.29	224.10	378.95	521.03	547.46	584.91	627.01	N.A.
General Government Final Consumption Expenditure	23.15	69.69	117.37	162.50	173.14	186.21	200.57	N.A.
Gross Fixed Capital Formation	34.04	106.77	160.09	231.74	260.76	284.71	320.12	N.A.
Stock Change	1.10	5.09	1.60	5.00	0.61	2.65	5.03	N.A.
Exports of Goods and Services	22.02	60.84	128.44	167.56	196.27	215.70	233.84	N.A.
Imports of Goods and Services	21.44	68.77	141.39	190.19	210.79	228.45	255.34	N.A.
Real GDP & its Components (Billions of 2000 AUD) *1								
Gross Domestic Product	470.32	653.60	910.52	1,065.17	1,097.87	1,139.26	1,181.75	1,197.00
Household Final Consumption Expenditure, etc.	243.80	332.36	450.89	548.02	562.23	584.91	606.55	N.A.
General Government Final Consumption Expenditure	77.91	113.27	151.15	176.45	180.84	186.21	192.61	N.A.
Gross Fixed Capital Formation	84.57	129.66	190.03	247.99	269.93	284.71	312.90	N.A.
Stock Change	1.95	6.93	2.76	6.10	2.30	2.65	4.67	N.A.
Exports of Goods and Services	53.00	86.00	182.19	203.41	207.89	215.70	224.47	N.A.
Imports of Goods and Services	36.96	70.76	135.52	195.12	209.25	228.45	257.83	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	3.2	2.8	2.7	2.6	2.6	2.0	2.1	N.A.
Industry	28.9	28.4	25.8	24.6	24.4	24.5	24.5	N.A.
Services, etc.	50.6	53.7	56.3	57.7	57.8	58.0	58.1	N.A.
Industrial Production Index (2005=100) *2	56.4	76.5	95.6	100.0	99.6	101.0	103.1	101.3
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.944	39.752	63.870	106.097	123.437	141.358	187.257	154.234
Imports, c.i.f.	22.399	41.985	71.529	125.281	139.253	165.336	200.273	165.471
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.371	0.358	-4.862	-13.372	-9.596	-17.784	-4.915	-4.215
Current Account	-4.447	-15.948	-14.763	-41.032	-41.504	-58.032	-47.786	-43.891
Overall Balance	0.448	1.740	-1.365	7.256	9.722	-35.148	3.692	8.550
Foreign Exchange Rate (AUD/USD) *1	0.8782	1.2811	1.7248	1.3095	1.3280	1.1951	1.1922	1.2822
PPP conversion factor, GDP (AUD/International Dollar) *1	1.0080	1.3888	1.3117	1.3884	1.4095	1.4268	1.4791	1.4521
Price Indices								
GDP Deflator (2007=100) *3	28.8	62.5	72.9	86.9	91.2	95.8	100.0	104.9
Manufacturing Output Price Index (2005=100) *2	38.8	76.6	87.5	100.0	107.9	110.5	119.6	113.1
Consumer Price Index (2005=100) *2	31.7	69.2	86.1	100.0	103.5	106.0	110.6	112.6
Growth Rate (%) *3								
Real GDP	3.04	2.95	3.95	2.84	3.07	3.77	3.73	1.29
Population	1.23	1.49	1.20	1.33	1.49	1.81	1.71	2.07
Price								
Manufacturing Output Price Index	14.0	6.0	7.1	6.0	7.9	2.3	8.3	-5.4
Consumer Price Index	10.1	7.3	4.5	2.7	3.5	2.3	4.4	1.8

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"

: AUD means Australian Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

3.2 Brunei Darussalam

Energy Balance Table of Brunei Darussalam

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2009									
Indigenous Production	-	-	9,284	18	-	-	-	-	-
Import	-	-	17	93	22	-	-	-	61
Export	-	-	-8,369	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-86	-	-	-86	-	-
Stock Changes	-	-	-143	-2	-3	-	0	-	0
Total Primary Energy Supply	-	-	788	22	19	-	-86	-	61
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-769	628	197	-	95	-	160
Main Activity Producer	-	-	-	-9	-	-	-	-	-9
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-769	637	197	-	95	-	169
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-16	-	-	-	-	-
Discrepancy	-	-	-19	11	9	-	-9	3	-8
Total Final Energy Consumption	-	-	-	646	225	-	-	3	213
Industry Sector	-	-	-	161	-	-	-	3	86
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	161	-	-	-	3	86
Transport Sector	-	-	-	352	225	-	-	-	127
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	352	225	-	-	-	127
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	130	-	-	-	0	0
Residential	-	-	-	18	-	-	-	0	0
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	0	-	-	-	-	0
Non-specified Others	-	-	-	112	-	-	-	-	-
Non-energy	-	-	-	3	-	-	-	-	-
2008									
Indigenous Production	-	-	9,692	17	-	-	-	-	-
Import	-	-	17	48	12	-	-	-	26
Export	-	-	-8,770	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-90	-	-	-90	-	-
Stock Changes	-	-	-111	4	5	-	-1	-	0
Total Primary Energy Supply	-	-	827	-21	17	-	-91	-	27
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-804	661	206	-	98	-	176
Main Activity Producer	-	-	-	-8	-	-	-	-	-8
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-804	669	206	-	98	-	184
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-19	-1	-	-	-1	-1
Discrepancy	-	-	-23	21	3	-	-7	4	1
Total Final Energy Consumption	-	-	-	642	225	-	-	3	204
Industry Sector	-	-	-	141	-	-	-	2	67
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	141	-	-	-	2	67
Transport Sector	-	-	-	362	225	-	-	-	137
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	362	225	-	-	-	137
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	135	-	-	-	1	0
Residential	-	-	-	19	-	-	-	1	0
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	0	-	-	-	-	0
Non-specified Others	-	-	-	116	-	-	-	-	-
Non-energy	-	-	-	4	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	18	-	-	-	10,604	-	-	-	-	-	-	19,905
-	-	-	-	10	-	-	-	-	-	-	-	109
-	-	-	-	-	-8,735	-	-	-	-	-	-	-17,104
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	-	-	0	-	-	-	-	-	-	-	-86
-	18	-	-	10	1,868	-	-	-	-	-	-	-145
-	-	-	-	-	-	-	-	-	-	-	-	2,679
-	-	-	-	-	-	-	-	-	-	-	-	-
79	-	65	-	32	-1,464	-	-	-	-	311	-	-1,294
-	-	-	-	-	-1,099	-	-	-	-	281	-	-826
-	-	-	-	-	-886	-	-	-	-	29	-	-856
-	-	-	-	-	521	-	-	-	-	-	-	521
79	-	65	-	32	-	-	-	-	-	-	-	-132
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-16	-	-	-457	-	-	-	-	-32	-	-504
-	0	16	-	1	82	-	-	-	-	-0	-	74
79	18	65	-	43	30	-	-	-	-	279	-	955
-	-	65	-	7	-	-	-	-	-	48	-	209
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	65	-	7	-	-	-	-	-	48	-	209
-	-	-	-	-	-	-	-	-	-	-	-	352
-	-	-	-	-	-	-	-	-	-	-	-	352
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
79	18	-	-	33	26	-	-	-	-	231	-	387
-	18	-	-	-	26	-	-	-	-	105	-	150
-	-	-	-	-	-	-	-	-	-	62	-	62
-	-	-	-	-	-	-	-	-	-	-	-	0
79	-	-	-	33	-	-	-	-	-	63	-	175
-	-	-	-	3	3	-	-	-	-	-	-	7
-	-	-	-	-	-	-	-	-	-	-	-	-
-	17	-	-	-	11,291	-	-	-	-	-	-	21,001
-	-	-	-	10	-	-	-	-	-	-	-	65
-	-	-	-	-	-9,390	-	-	-	-	-	-	-18,160
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-90
-	-0	-	-	-2	16	-	-	-	-	-	-	-91
-	17	-	-	9	1,918	-	-	-	-	-	-	2,724
-	-	-	-	-	-	-	-	-	-	-	-	-
83	-	65	-	33	-1,443	-	-	-	-	294	-	-1,292
-	-	-	-	-	-1,013	-	-	-	-	264	-	-757
-	-	-	-	-	-953	-	-	-	-	30	-	-923
-	-	-	-	-	522	-	-	-	-	-	-	522
83	-	65	-	33	-	-	-	-	-	-	-	-135
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-17	-	-	-443	-	-	-	-	-24	-	-486
-	0	17	-	3	-3	-	-	-	-	0	-	-6
83	18	64	-	45	28	-	-	-	-	270	-	940
-	-	64	-	8	-	-	-	-	-	47	-	188
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	64	-	8	-	-	-	-	-	47	-	188
-	-	-	-	-	-	-	-	-	-	-	-	362
-	-	-	-	-	-	-	-	-	-	-	-	362
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
83	18	-	-	33	28	-	-	-	-	224	-	387
-	18	-	-	-	28	-	-	-	-	166	-	214
-	-	-	-	-	-	-	-	-	-	57	-	57
-	-	-	-	-	-	-	-	-	-	-	-	0
83	-	-	-	33	-	-	-	-	-	-	-	116
-	-	-	-	4	-	-	-	-	-	-	-	4

Major Energy Indicators of Brunei Darussalam

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	3,245	2,071	2,701	2,123	3,960	3,872	2,724	2,679
Indigenous Production	20,664	15,259	17,411	21,630	23,038	20,834	21,001	19,905
Import	215	80	22	43	13	8	65	109
Export	-17,589	-12,977	-14,845	-19,362	-19,073	-16,944	-18,160	-17,104
Final Energy Consumption	241	417	636	577	707	733	940	955
Industry	39	53	91	96	104	102	188	209
Transport	165	255	324	219	350	357	362	352
Residential	-	-	-	127	28	74	214	150
Commerce & Public Services	-	-	-	119	-	191	57	62
Others	37	108	220	17	224	8	120	181
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	167	38	566	697	749	760	827	788
Indigenous Production	12,121	7,677	9,006	10,487	11,208	9,424	9,692	9,284
Import	-	76	-	-	-	-	17	17
Export	-11,919	-7,424	-8,541	-9,806	-10,536	-8,704	-8,770	-8,369
Transformation Sector	-	-	-	-706	-735	-696	-804	-769
Petroleum Refineries	-	-321	-573	-706	-735	-696	-804	-769
Petroleum Products								
Primary Energy Supply	215	0	22	-161	-57	-54	-21	22
Import	215	4	22	43	13	8	48	93
Export	-	-3	-1	-	-	-	-	-
Transformation Sector	-	-	-	632	631	644	661	628
Power Generation	-	-3	-5	-8	-8	-8	-8	-9
Petroleum Refineries	-	290	566	639	639	652	669	637
Final Energy Consumption	215	309	401	300	436	436	642	646
Industry	31	17	40	47	56	54	141	161
Transport	165	255	324	219	350	357	362	352
Residential	-	-	-	17	15	17	19	18
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	19	37	37	17	14	8	120	115
Natural Gas								
Primary Energy Supply	2,863	2,033	2,113	1,587	3,269	3,166	1,918	1,868
Indigenous Production	8,543	7,583	8,405	11,143	11,816	11,394	11,291	10,604
Import	-	-	-	-	-	-	-	-
Export	-5,670	-5,549	-6,302	-9,556	-8,537	-8,240	-9,390	-8,735
Transformation Sector	-	-	-	-1,078	-2,002	-1,984	-1,443	-1,464
Power Generation	-733	-517	-1,378	-1,078	-1,923	-1,893	-1,966	-1,985
Final Energy Consumption	-	25	22	13	13	29	28	30
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	13	13	29	28	26
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	25	22	-	-	-	-	3
Electricity								
Power Generation	33	101	244	281	284	292	294	311
Thermal	33	101	244	281	284	292	294	311
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Final Energy Consumption	26	82	213	264	258	268	270	279
Industry	8	36	51	49	48	48	47	48
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	96	-	29	166	105
Commerce & Public Services	-	-	-	119	-	191	57	62
Others	18	46	161	-	210	-	-	63

Major Economic Indicators of Brunei Darussalam

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	0.19	0.26	0.33	0.37	0.38	0.38	0.39	0.40
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	5.77	4.81	6.00	6.65	6.94	6.95	6.82	6.70
Real Term (Billions of 2000 Price and 2000 PPP)	13.52	11.26	14.05	15.57	16.26	16.28	15.97	15.68
Nominal (Billions of Current USD)	4.93	3.52	6.00	9.53	11.47	12.25	14.39	10.73
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	29,916	18,714	17,996	17,968	18,392	18,066	17,380	16,757
Real Term (2000 Price and 2000 PPP)	70,052	43,820	42,141	42,075	43,068	42,304	40,698	39,239
Nominal (Current USD)	25,534	13,698	17,996	25,755	30,390	31,824	36,692	26,853
Nominal GDP & its Components (Billions of Current BND) *1								
Gross Domestic Product	10.55	6.38	10.35	15.86	18.23	18.46	20.40	15.61
Household Final Consumption Expenditure, etc.	0.74	1.69	2.57	3.56	3.61	3.72	N.A.	N.A.
General Government Final Consumption Expenditure	0.88	1.40	2.67	2.92	3.29	3.84	N.A.	N.A.
Gross Fixed Capital Formation	N.A.	1.19	1.34	1.80	1.91	2.40	N.A.	N.A.
Stock Change	N.A.	0.00	0.01	0.00	-0.01	0.00	N.A.	N.A.
Exports of Goods and Services	9.85	3.94	6.97	11.13	13.09	12.52	N.A.	N.A.
Imports of Goods and Services	1.23	2.38	3.71	4.33	4.60	5.15	N.A.	N.A.
Real GDP & its Components (Billions of 2000 BND) *1								
Gross Domestic Product	9.96	8.29	10.35	11.46	11.97	11.99	11.75	11.55
Household Final Consumption Expenditure, etc.	N.A.	2.02	2.57	3.49	3.62	3.69	N.A.	N.A.
General Government Final Consumption Expenditure	N.A.	2.11	2.67	2.87	3.24	3.75	N.A.	N.A.
Gross Fixed Capital Formation	N.A.	1.55	1.34	1.72	1.74	2.20	N.A.	N.A.
Stock Change	N.A.	0.00	0.01	0.00	0.00	0.00	N.A.	N.A.
Exports of Goods and Services	N.A.	4.91	6.97	7.49	7.77	7.01	N.A.	N.A.
Imports of Goods and Services	N.A.	2.98	3.71	4.25	4.43	5.01	N.A.	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	0.8	1.0	1.3	1.1	1.1	N.A.	N.A.
Industry	N.A.	63.3	63.7	61.2	60.3	56.8	N.A.	N.A.
Services, etc.	N.A.	35.9	35.3	37.5	38.6	42.5	N.A.	N.A.
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.	4.581	2.213	3.903	6.249	7.636	7.668	10.543	6.900
Imports, c.i.f.	0.572	1.001	1.107	1.491	1.676	2.101	2.574	2.500
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	N.A.	4.829	6.039	5.700	7.840	4.889
Current Account	N.A.	N.A.	N.A.	4.033	5.229	4.828	6.939	3.977
Overall Balance	N.A.	N.A.	N.A.	-0.063	0.029	0.142	0.045	0.154
Foreign Exchange Rate (BND/USD) *1	2.1412	1.8125	1.7240	1.6644	1.5889	1.5071	1.4172	1.4546
Purchasing Power Parity (BND/International Dollar) *1	1.4502	0.6960	0.7362	0.9031	0.9625	0.9455	1.0428	0.8050
Price Indices								
GDP Deflator (2000=100) *4	106.0	77.0	100.0	138.4	152.3	154.0	173.5	135.2
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	61.1	81.7	99.4	100.0	100.2	101.1	103.2	104.3
Growth Rate (%) *4								
Real GDP	-7.00	1.09	2.85	0.39	4.40	0.15	-1.94	-1.77
Population	3.35	2.87	2.32	2.01	1.99	1.96	1.93	1.89
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.	2.1	1.6	1.2	0.2	1.0	2.1	1.0

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	
2009									
Indigenous Production	31,460	-	156,886	-	-	-	-	-	-
Import	7,725	508	40,797	12,024	4,194	86	1,440	75	1,615
Export	-16,925	-49	-100,103	-20,796	-6,226	-192	-339	-80	-7,791
International Marine Bunkers	-	-	-	-471	-	-	-	-	-17
International Aviation Bunkers	-	-	-	-682	-	-	-682	-	-
Stock Changes	821	284	193	626	-156	30	-23	24	172
Total Primary Energy Supply	23,081	743	97,772	-9,299	-2,188	-76	396	20	-6,022
Transfers	-	-	-2,325	5,834	1,234	61	-165	-1,138	250
Total Transformation Sector	-21,242	794	-92,383	97,704	34,109	2,480	4,138	1,345	30,893
Main Activity Producer	-19,179	-	-	-2,501	-	-	-	-	-84
Autoproducers	-3	-16	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-93,168	100,206	34,109	2,480	4,138	1,345	30,978
Coal Transformation	-2,060	810	-	-	-	-	-	-	-
Other Transformation	-	-	785	-	-	-	-	-	-
Loss & Own Use	-54	-	-	-9,790	-1	-9	-	-	-16
Discrepancy	-465	-565	-3,064	2,181	194	-72	7	68	524
Total Final Energy Consumption	1,320	972	-	86,630	33,348	2,384	4,376	295	25,630
Industry Sector	1,291	972	-	4,362	-	-	-	83	2,380
Iron and Steel	-	892	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	35	-	-	-	-	-
Other Industries	1,291	80	-	4,327	-	-	-	83	2,380
Transport Sector	-	-	-	52,713	33,348	-	4,376	-	13,920
Domestic Air Transport	-	-	-	4,442	65	-	4,376	-	-
Road	-	-	-	44,783	33,282	-	-	-	11,249
Rail	-	-	-	1,989	-	-	-	-	1,989
Inland Waterways	-	-	-	1,479	-	-	-	-	661
Pipeline Transport	-	-	-	20	-	-	-	-	20
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	29	-	-	11,924	-	-	-	212	9,329
Residential	29	-	-	1,750	-	-	-	61	1,357
Commerce and Public Services	-	-	-	8,151	-	-	-	151	6,124
Agriculture	-	-	-	2,023	-	-	-	1	1,848
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	17,631	-	2,384	-	-	-
2008									
Indigenous Production	34,373	-	158,307	-	-	-	-	-	-
Import	11,809	526	42,564	15,821	4,292	64	2,257	207	3,373
Export	-19,287	-46	-99,188	-21,862	-5,915	-260	-354	-54	-7,902
International Marine Bunkers	-	-	-	-523	-	-	-	-	-33
International Aviation Bunkers	-	-	-	-544	-	-	-544	-	-
Stock Changes	156	273	354	-171	172	59	13	-13	-161
Total Primary Energy Supply	27,050	753	102,037	-7,280	-1,451	-136	1,371	140	-4,722
Transfers	-	-	-2,939	6,434	938	106	-328	-1,412	236
Total Transformation Sector	-26,427	1,270	-95,127	100,460	33,425	3,750	4,383	1,517	31,317
Main Activity Producer	-23,541	-	-	-2,590	-	-	-	-	-109
Autoproducers	-5	-18	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-95,824	103,050	33,425	3,750	4,383	1,517	31,425
Coal Transformation	-2,880	1,287	-	-	-	-	-	-	-
Other Transformation	-	-	697	-	-	-	-	-	-
Loss & Own Use	-66	-	-	-9,329	-1	-3	-	-	-14
Discrepancy	1,130	-917	-3,971	853	4	8	-114	32	1,088
Total Final Energy Consumption	1,687	1,106	-	91,138	32,915	3,724	5,312	277	27,904
Industry Sector	1,654	1,106	-	5,831	-	-	-	19	3,514
Iron and Steel	-	1,000	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	38	-	-	-	-	-
Other Industries	1,654	105	-	5,793	-	-	-	19	3,514
Transport Sector	-	-	-	53,690	32,915	-	5,312	-	14,225
Domestic Air Transport	-	-	-	5,381	68	-	5,312	-	-
Road	-	-	-	44,524	32,847	-	-	-	11,393
Rail	-	-	-	2,056	-	-	-	-	2,056
Inland Waterways	-	-	-	1,713	-	-	-	-	759
Pipeline Transport	-	-	-	16	-	-	-	-	16
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	33	-	-	12,873	-	-	-	258	10,165
Residential	33	-	-	2,067	-	-	-	104	1,602
Commerce and Public Services	-	-	-	8,282	-	-	-	153	6,290
Agriculture	-	-	-	2,524	-	-	-	2	2,273
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	18,743	-	3,724	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	135,288	31,301	23,563	402	11,542	-	-	390,442
700	206	-	-	3,707	17,066	-	-	-	264	1,562	-	79,946
-2,787	-293	-	-	-3,088	-78,677	-	-	-	-434	-4,449	-	-221,433
-454	-	-	-	-	-	-	-	-	-	-	-	-471
-	-	-	-	-	-	-	-	-	-	-	-	-682
70	45	-	-	464	5,006	-	-	-	-	-	-	6,930
-2,472	-42	-	-	1,084	78,683	31,301	23,563	402	11,372	-2,888	-	254,730
712	2,352	-	5,479	-2,952	-	-	-	-	-	-	-	3,509
4,888	1,965	5,934	-	11,953	-10,824	-31,301	-23,563	-402	-2,390	51,878	713	-31,014
-1,224	-	-316	-	-877	-6,936	-28,601	-23,563	-402	-11	47,828	663	-32,702
-	-	-	-	-	-1,337	-2,700	-	-	-1,595	4,050	50	-1,550
-	-	-	-	-	-1,962	-	-	-	-	-	-	-1,962
6,113	1,965	6,249	-	12,829	-	-	-	-	-	-	-	7,037
-	-	-	-	-	-	-	-	-	-	-	-	-1,250
-	-	-	-	-	-589	-	-	-	-783	-	-	-587
-412	-29	-5,934	-	-3,389	-14,583	-	-	-	-1	-7,934	-0	-32,363
330	321	-	-	809	1,434	-	-	-	0	0	-50	-530
3,048	4,566	-	5,479	7,504	54,711	-	-	-	8,981	41,056	663	194,334
985	903	-	-	11	23,991	-	-	-	6,974	13,715	617	51,922
-	-	-	-	-	1,178	-	-	-	4	556	-	2,630
-	-	-	-	-	2,780	-	-	-	-	1,049	182	4,011
35	-	-	-	-	31	-	-	-	110	123	-	299
951	903	-	-	11	20,001	-	-	-	6,860	11,987	435	44,982
818	251	-	-	-	2,722	-	-	-	-	314	-	55,749
-	-	-	-	-	-	-	-	-	-	-	-	4,442
-	251	-	-	-	40	-	-	-	-	-	-	44,823
-	-	-	-	-	-	-	-	-	-	-	-	1,989
818	-	-	-	-	-	-	-	-	-	-	-	1,479
-	-	-	-	-	2,682	-	-	-	-	255	-	2,957
-	-	-	-	-	-	-	-	-	-	59	-	59
1,244	1,138	-	-	-	25,645	-	-	-	2,007	27,027	46	66,678
21	311	-	-	-	14,196	-	-	-	2,002	13,783	-	31,759
1,207	669	-	-	-	10,936	-	-	-	5	12,411	45	31,547
16	158	-	-	-	514	-	-	-	0	833	1	3,372
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2,275	-	5,479	7,492	2,353	-	-	-	-	-	-	19,984
-	-	-	-	-	145,018	32,199	24,484	322	11,988	-	-	406,690
1,617	138	-	-	3,873	12,831	-	-	-	382	2,052	-	85,985
-4,163	-387	-	-	-2,826	-84,712	-	-	-	-373	-4,759	-	-230,227
-491	-	-	-	-	-	-	-	-	-	-	-	-523
-	-	-	-	-	-	-	-	-	-	-	-	-544
68	-34	-	-	-276	5,145	-	-	-	-	-	-	5,757
-2,969	-284	-	-	771	78,283	32,199	24,484	322	11,998	-2,707	-	267,138
1,361	2,613	-	5,445	-2,526	-	-	-	-	-	-	-	3,495
6,287	2,057	5,959	-	11,766	-11,665	-32,199	-24,484	-322	-2,389	55,130	808	-34,944
-1,269	-	-342	-	-869	-7,782	-29,312	-24,484	-322	-11	50,815	762	-36,464
-	-	-	-	-	-1,598	-2,887	-	-	-1,683	4,315	46	-1,830
-	-	-	-	-	-1,711	-	-	-	-	-	-	-1,711
7,557	2,057	6,301	-	12,635	-	-	-	-	-	-	-	7,226
-	-	-	-	-	-	-	-	-	-	-	-	-1,593
-	-	-	-	-	-574	-	-	-	-695	-	-	-572
-516	-33	-5,958	-	-2,805	-15,465	-	-	-	-1	-9,439	-0	-34,301
-718	127	-1	-	427	2,080	0	-	-	0	-0	-47	-873
3,445	4,480	-	5,445	7,634	53,233	-	-	-	9,607	42,984	761	200,515
1,315	973	-	-	10	21,015	-	-	-	7,596	15,155	669	53,026
-	-	-	-	-	1,272	-	-	-	4	749	-	3,025
-	-	-	-	-	2,615	-	-	-	-	1,262	198	4,075
38	-	-	-	-	48	-	-	-	104	168	-	358
1,277	973	-	-	10	17,080	-	-	-	7,488	12,977	470	45,567
953	285	-	-	-	3,199	-	-	-	-	335	-	57,225
-	-	-	-	-	-	-	-	-	-	-	-	5,381
-	285	-	-	-	40	-	-	-	-	-	-	44,565
-	-	-	-	-	-	-	-	-	-	-	-	2,056
953	-	-	-	-	-	-	-	-	-	-	-	1,713
-	-	-	-	-	3,159	-	-	-	-	279	-	3,454
-	-	-	-	-	-	-	-	-	-	56	-	56
1,176	1,273	-	-	-	25,903	-	-	-	2,011	27,494	92	68,406
15	347	-	-	-	14,812	-	-	-	2,006	13,715	-	32,634
1,090	749	-	-	-	10,604	-	-	-	5	12,961	91	31,941
71	177	-	-	-	487	-	-	-	0	818	1	3,830
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,950	-	5,445	7,624	3,115	-	-	-	-	-	-	21,859

Major Energy Indicators of Canada

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	194,245	208,572	252,649	272,802	269,179	272,593	267,138	254,730
Indigenous Production	207,701	273,734	373,927	401,686	411,439	416,971	406,690	390,442
Import	41,540	46,404	72,056	82,020	79,930	79,804	85,985	79,946
Export	-52,494	-105,728	-199,765	-215,945	-220,777	-230,929	-230,227	-221,433
Final Energy Consumption	156,724	158,800	189,160	202,712	196,280	204,672	200,515	194,334
Industry	61,067	47,276	54,686	57,507	54,343	57,098	53,026	51,922
Transport	45,020	43,122	52,231	55,774	55,466	58,119	57,225	55,749
Residential	28,592	28,722	30,875	31,182	29,857	32,126	32,634	31,759
Commerce & Public Services	15,644	21,727	27,425	31,111	29,588	30,960	31,941	31,547
Others	6,401	17,953	23,942	27,139	27,027	26,368	25,689	23,356
Coal, Coal Products								
Primary Energy Supply	21,293	24,276	31,661	28,829	28,600	26,436	27,803	23,824
Indigenous Production	20,204	37,927	34,407	31,865	32,350	34,276	34,373	31,460
Import	10,808	9,547	15,048	11,778	12,691	10,496	12,335	8,233
Export	-10,203	-21,442	-19,269	-16,854	-16,846	-18,404	-19,333	-16,974
Transformation Sector	-	-21,399	-28,643	-25,619	-25,071	-25,336	-25,157	-20,448
Power Generation	-14,797	-19,972	-26,964	-24,005	-23,337	-23,557	-23,564	-19,198
Final Energy Consumption	5,657	2,924	2,939	3,066	3,101	3,188	2,792	2,292
Industry	5,554	2,872	2,902	3,031	3,062	3,158	2,759	2,263
Transport	-	-	-	-	-	-	-	-
Residential	76	47	36	35	39	30	33	29
Commerce & Public Services	26	5	1	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	97,222	83,138	97,125	107,073	103,093	109,647	102,037	97,772
Indigenous Production	85,309	94,488	128,871	148,012	155,932	162,519	158,307	156,886
Import	28,162	27,134	46,942	46,637	42,841	43,239	42,564	40,797
Export	-15,229	-37,811	-78,446	-85,864	-95,276	-97,872	-99,188	-100,103
Transformation Sector	-	-85,818	-94,873	-99,073	-97,940	-99,731	-95,127	-92,383
Petroleum Refineries	-96,888	-85,818	-95,007	-99,243	-98,078	-100,393	-95,824	-93,168
Petroleum Products								
Primary Energy Supply	-6,363	-6,283	-8,855	-9,202	-8,462	-10,155	-7,280	-9,299
Import	2,314	7,673	7,362	14,019	14,398	13,306	15,821	12,024
Export	-6,408	-11,857	-14,895	-21,818	-20,829	-21,687	-21,862	-20,796
Transformation Sector	-	82,854	93,386	101,859	100,914	104,228	100,460	97,704
Power Generation	-2,998	-3,796	-3,148	-3,261	-2,733	-2,792	-2,590	-2,501
Petroleum Refineries	95,314	86,651	96,534	105,120	103,648	107,020	103,050	100,206
Final Energy Consumption	81,315	68,787	81,000	93,288	89,668	92,244	91,138	86,630
Industry	20,046	6,787	6,457	8,792	6,019	6,363	5,831	4,362
Transport	43,191	39,944	47,084	51,109	50,986	53,628	53,690	52,713
Residential	10,414	4,659	3,249	2,373	2,154	2,313	2,067	1,750
Commerce & Public Services	2,216	4,077	5,778	8,586	8,154	8,203	8,282	8,151
Others	5,448	13,321	18,431	22,428	22,354	21,737	21,267	19,654
Natural Gas								
Primary Energy Supply	45,889	54,743	74,259	80,624	79,651	80,619	78,283	78,683
Indigenous Production	63,643	88,579	148,361	154,077	154,909	151,404	145,018	135,288
Import	2	521	1,329	7,833	7,923	10,798	12,831	17,066
Export	-18,057	-33,045	-82,681	-87,402	-83,797	-88,274	-84,712	-78,677
Transformation Sector	-	-2,447	-8,812	-9,249	-8,824	-10,952	-11,665	-10,824
Power Generation	-1,806	-1,868	-7,356	-7,512	-7,203	-8,662	-9,380	-8,273
Final Energy Consumption	35,108	43,314	53,426	51,626	50,558	55,642	53,233	54,711
Industry	17,137	16,856	19,318	18,756	19,328	22,700	21,015	23,991
Transport	1,634	2,897	4,758	4,299	4,091	4,143	3,199	2,722
Residential	8,897	11,359	13,861	13,899	13,273	14,667	14,812	14,196
Commerce & Public Services	7,161	8,322	10,816	10,853	10,051	10,311	10,604	10,936
Others	279	3,880	4,673	3,819	3,816	3,820	3,602	2,867
Electricity								
Power Generation	32,245	41,465	52,091	53,848	52,973	55,221	55,130	51,878
Thermal	7,230	8,612	12,909	12,231	11,578	12,954	12,755	10,715
Hydro	21,769	25,529	30,841	31,281	30,569	31,889	32,199	31,301
Nuclear	3,116	6,347	6,324	7,995	8,510	8,121	8,161	7,854
Others	129	977	2,017	2,341	2,317	2,256	2,016	2,009
Final Energy Consumption	26,440	35,960	41,421	44,046	42,702	43,258	42,984	41,056
Industry	12,035	14,443	17,485	18,197	17,494	16,605	15,155	13,715
Transport	196	281	389	366	390	348	335	314
Residential	7,294	11,165	11,888	12,985	12,641	13,146	13,715	13,783
Commerce & Public Services	6,241	9,319	10,821	11,608	11,323	12,351	12,961	12,411
Others	674	751	837	890	855	809	818	833

Major Economic Indicators of Canada

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	24.59	27.79	30.77	32.31	32.65	32.98	33.31	33.74
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	411.96	543.64	724.91	821.94	845.14	863.73	868.21	846.83
Real Term (Billions of 2000 Price and 2000 PPP)	496.73	655.51	874.08	991.07	1,019.05	1,041.47	1,046.86	1,021.09
Nominal (Billions of Current USD)	268.89	582.74	724.91	1,133.76	1,278.61	1,424.07	1,499.11	1,336.07
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	16,751	19,562	23,559	25,437	25,886	26,193	26,063	25,099
Real Term (2000 Price and 2000 PPP)	20,198	23,587	28,407	30,672	31,212	31,583	31,427	30,264
Nominal (Current USD)	10,934	20,968	23,559	35,088	39,162	43,185	45,003	39,599
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	314.39	679.92	1,076.58	1,373.85	1,450.41	1,529.59	1,599.61	1,527.26
Household Final Consumption Expenditure, etc.	168.48	385.41	596.01	758.97	801.74	851.60	890.35	898.73
General Government Final Consumption Expenditure	67.08	151.42	200.08	259.86	277.61	293.61	314.33	333.94
Gross Fixed Capital Formation	72.94	144.86	206.27	292.66	324.53	347.21	364.53	328.47
Stock Change	-0.68	-2.68	11.53	10.61	9.36	8.27	5.47	-8.18
Exports of Goods and Services	88.29	175.51	490.69	519.44	524.08	534.72	563.95	438.55
Imports of Goods and Services	82.46	174.62	428.75	468.27	487.67	505.06	539.01	464.72
Real GDP & its Components (Billions of 2000 CAD) *1								
Gross Domestic Product	611.81	807.37	1,076.58	1,220.67	1,255.12	1,282.74	1,289.39	1,257.64
Household Final Consumption Expenditure, etc.	359.25	467.66	596.01	696.31	725.19	758.15	780.44	784.55
General Government Final Consumption Expenditure	144.71	184.41	200.08	227.31	234.21	240.59	249.87	258.56
Gross Fixed Capital Formation	116.92	157.25	206.27	272.52	291.75	302.08	306.45	270.57
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	135.50	220.55	490.69	503.82	506.78	512.99	489.53	420.01
Imports of Goods and Services	133.41	221.57	428.75	498.61	523.19	554.11	560.53	482.51
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	2.7	2.6	2.1	2.0	1.9	1.8	1.9	1.8
Industry	33.0	30.7	30.8	28.7	28.0	27.6	26.5	24.4
Services, etc.	64.3	66.6	67.0	69.3	70.1	70.6	71.6	73.8
Industrial Production Index (2005=100) *2	51.8	64.0	88.3	100.0	102.7	105.1	105.6	102.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	67.734	127.629	276.635	360.475	388.178	420.693	456.471	316.713
Imports, c.i.f.	62.544	123.244	244.786	322.411	359.000	390.188	419.011	329.904
Balance of Payments (Billions of Current USD) *2								
Trade Balance	7.939	9.513	45.047	51.736	43.655	43.770	43.803	-4.394
Current Account	-6.088	-19.764	19.622	21.714	18.084	12.003	6.376	-40.024
Overall Balance	-0.536	1.139	3.720	1.335	0.826	3.906	1.769	10.470
Foreign Exchange Rate (CAD/USD) *1	1.1692	1.1668	1.4851	1.2118	1.1344	1.0741	1.0670	1.1431
Purchasing Power Parity (CAD/International Dollar) *1	1.1589	1.2547	1.2317	1.2136	1.2081	1.2110	1.2344	1.1973
Price Indices								
GDP Deflator (2000=100) *3	51.4	84.2	100.0	112.5	115.6	119.2	124.1	121.4
Industry Selling Price Index (2005=100) *2	52.2	75.5	95.5	100.0	102.3	103.8	108.4	104.6
Consumer Price Index (2005=100) *2	41.2	73.2	89.2	100.0	102.0	104.2	106.7	107.0
Growth Rate (%) *3								
Real GDP	2.16	0.19	5.23	3.02	2.82	2.20	0.52	-2.46
Population	1.30	1.50	0.89	0.99	1.04	1.00	1.02	1.29
Price								
Industry Selling Price Index	13.4	0.3	4.3	1.6	2.3	1.5	4.3	-3.5
Consumer Price Index	10.2	4.8	2.7	2.2	2.0	2.1	2.4	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"

: CAD means Canadian Dollar, USD means United States Dollar

: PPP means Purchasing Power Parity

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	
2009									
Indigenous Production	352	-	672	-	-	-	-	-	-
Import	3,335	-	10,696	6,689	597	3	185	-	4,258
Export	-	-	-	-1,117	-494	-27	-	-	-482
International Marine Bunkers	-	-	-	-816	-	-	-	-	-38
International Aviation Bunkers	-	-	-	-439	-	-	-439	-	-
Stock Changes	-49	-	68	211	-110	-5	34	13	216
Total Primary Energy Supply	3,639	-	11,437	4,528	-7	-29	-219	13	3,954
Transfers	-	-	1,079	-919	-150	-	-6	-6	-614
Total Transformation Sector	-3,009	198	-14,108	7,855	2,623	125	650	63	1,595
Main Activity Producer	-2,604	-	-	-2,362	-	-	-	-	-1,876
Autoproducers	-	-	-	-49	-	-	-	-	-31
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-14,108	10,272	2,623	125	650	63	3,502
Coal Transformation	-404	198	-	-6	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-5	-115	-	-860	-	-	-	-	-4
Discrepancy	-491	13	1,593	1,476	208	-96	-118	59	1,080
Total Final Energy Consumption	134	96	-	12,080	2,673	-	306	128	6,011
Industry Sector	124	96	-	3,376	-	-	-	39	2,216
Iron and Steel	-	80	-	32	-	-	-	-	1
Chemical & Petrochemical	-	-	-	9	-	-	-	-	-
Non-metallic Minerals	31	-	-	230	-	-	-	-	9
Other Industries	93	16	-	3,105	-	-	-	39	2,206
Transport Sector	-	-	-	6,777	2,673	-	306	-	3,596
Domestic Air Transport	-	-	-	312	5	-	306	-	1
Road	-	-	-	5,947	2,668	-	-	-	3,272
Rail	-	-	-	44	-	-	-	-	44
Inland Waterways	-	-	-	475	-	-	-	-	279
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	10	-	-	1,426	-	-	-	89	199
Residential	-	-	-	957	-	-	-	80	6
Commerce and Public Services	3	-	-	324	-	-	-	9	132
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	7	-	-	145	-	-	-	-	61
Non-energy	-	-	-	502	-	-	-	-	-
2008									
Indigenous Production	263	-	558	-	-	-	-	-	-
Import	4,120	-	10,881	7,841	459	-	366	-	5,116
Export	-	-9	-	-1,278	-645	-30	-	-	-546
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-29	18	-	-	-	-	-	-	-
Total Primary Energy Supply	4,353	9	11,439	6,563	-186	-30	366	-	4,570
Transfers	-	-	-419	462	-	-	-	-	-
Total Transformation Sector	-3,768	224	-11,154	7,163	2,390	135	544	81	1,432
Main Activity Producer	-3,303	-	-	-3,079	-	-	-	-	-2,446
Autoproducers	-4	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-11,154	10,267	2,390	135	544	81	3,878
Coal Transformation	-461	224	-	-25	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-134	-	-63	-	-	-	-	-27
Discrepancy	-208	1	134	-984	258	-103	1	1	-65
Total Final Energy Consumption	377	100	-	13,141	2,462	2	912	82	5,909
Industry Sector	364	100	-	3,240	-	2	-	26	2,019
Iron and Steel	-	85	-	43	-	-	-	-	2
Chemical & Petrochemical	-	-	-	7	-	-	-	-	-
Non-metallic Minerals	202	-	-	68	-	-	-	-	10
Other Industries	162	15	-	3,122	-	2	-	26	2,007
Transport Sector	-	-	-	8,400	2,462	-	912	-	3,653
Domestic Air Transport	-	-	-	917	4	-	912	-	1
Road	-	-	-	5,729	2,458	-	-	-	3,268
Rail	-	-	-	46	-	-	-	-	46
Inland Waterways	-	-	-	1,708	-	-	-	-	338
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	14	-	-	1,364	-	-	-	55	237
Residential	-	-	-	896	-	-	-	53	5
Commerce and Public Services	3	-	-	342	-	-	-	2	165
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	10	-	-	126	-	-	-	-	67
Non-energy	-	-	-	138	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	993	2,165	-	7	5,051	-	-	9,241
454	870	-	-	321	1,228	-	-	-	-	116	-	22,064
-78	-36	-	-	-	-	-	-	-	-	-	-	-1,117
-779	-	-	-	-	-	-	-	-	-	-	-	-816
-	-	-	-	-	-	-	-	-	-	-	-	-439
83	3	-	-	-21	15	-	-	-	-	-	-	246
-320	837	-	-	300	2,236	2,165	-	7	5,051	116	-	29,178
-386	526	-	-	-284	-	-	-	-	-	-	-	159
1,502	291	656	-	351	-1,435	-2,165	-	-7	-751	5,274	-	-8,148
-205	-12	-	-	-269	-726	-2,133	-	-7	-39	4,814	-	-3,057
-18	-	-	-	-	-15	-32	-	-	-694	461	-	-329
-	-	-	-	-	-695	-	-	-	-	-	-	-695
1,730	304	656	-	620	-	-	-	-	-	-	-	-3,836
-6	-	-	-	-	-	-	-	-	-	-	-	-212
-	-	-	-	-	-	-	-	-	-19	-	-	-19
-77	-123	-656	-	-	-18	-	-	-	-	-769	-	-1,767
210	-209	-	-	343	-104	0	-	-	12	12	-	2,512
929	1,323	-	-	710	679	-	-	-	4,312	4,633	-	21,935
611	302	-	-	209	132	-	-	-	1,496	3,133	-	8,356
31	-	-	-	-	-	-	-	-	-	44	-	156
-	9	-	-	-	-	-	-	-	-	38	-	47
12	1	-	-	209	1	-	-	-	-	44	-	306
568	291	-	-	-	131	-	-	-	1,496	3,007	-	7,847
196	7	-	-	-	20	-	-	-	-	36	-	6,834
-	-	-	-	-	-	-	-	-	-	-	-	312
-	7	-	-	-	20	7	-	-	-	-	-	5,967
-	-	-	-	-	-	-	-	-	-	36	-	80
196	-	-	-	-	-	-	-	-	-	-	-	475
-	-	-	-	-	-	-	-	-	-	-	-	-
123	1,014	-	-	-	527	-	-	-	2,816	1,464	-	6,243
-	871	-	-	-	379	-	-	-	2,816	765	-	4,918
44	138	-	-	-	143	-	-	-	-	684	-	1,154
-	-	-	-	-	-	-	-	-	-	-	-	-
79	6	-	-	-	5	-	-	-	-	14	-	172
-	-	-	-	502	-	-	-	-	-	-	-	502
-	-	-	-	-	1,247	2,081	-	3	4,860	-	-	9,011
563	1,018	-	-	319	655	-	-	-	-	99	-	23,596
-	-56	-	-	-	-	-	-	-	-	-	-	-1,287
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
563	961	-	-	319	1,779	2,081	-	3	4,860	99	-	31,186
-	462	-	-	-	-	-	-	-	-	-	-	43
1,522	296	772	-	-9	-464	-2,081	-	-3	-515	5,135	-	-5,463
-283	-	-39	-	-310	-423	-2,044	-	-3	-24	4,783	-	-4,093
-	-	-	-	-	-50	-36	-	-	-491	351	-	-231
-	-	-	-	-	10	-	-	-	-	-	-	10
1,830	296	811	-	301	-	-	-	-	-	-	-	-887
-25	-	-	-	-	-	-	-	-	-	-	-	-262
-	-	-	-	-	-	-	-	-	-	-	-	-
-36	-	-	-	-	-1	-	-	-	-	-632	-	-830
265	-438	-772	-	-130	102	-	-	-	0	-0	-	-955
2,314	1,281	-	-	180	1,416	-	-	-	4,345	4,602	-	23,981
830	321	-	-	42	58	-	-	-	1,545	3,140	-	8,445
41	-	-	-	-	-	-	-	-	-	52	-	180
1	6	-	-	-	-	-	-	-	-	52	-	58
15	-	-	-	42	-	-	-	-	-	52	-	321
772	315	-	-	-	58	-	-	-	1,545	2,984	-	7,885
1,370	3	-	-	-	13	-	-	-	-	37	-	8,450
-	-	-	-	-	-	-	-	-	-	-	-	917
-	3	-	-	-	13	-	-	-	-	-	-	5,742
-	-	-	-	-	-	-	-	-	-	37	-	82
1,370	-	-	-	-	-	-	-	-	-	-	-	1,708
-	-	-	-	-	-	-	-	-	-	-	-	-
114	957	-	-	-	494	-	-	-	2,801	1,425	-	6,097
-	837	-	-	-	366	-	-	-	2,801	752	-	4,814
58	117	-	-	-	127	-	-	-	-	657	-	1,130
-	-	-	-	-	-	-	-	-	-	-	-	-
57	2	-	-	-	1	-	-	-	-	16	-	153
-	-	-	-	138	851	-	-	-	-	-	-	989

Major Energy Indicators of Chile

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	10,971	13,611	25,695	29,693	31,109	31,316	31,186	29,178
Indigenous Production	7,043	7,432	8,194	8,861	9,142	8,455	9,011	9,241
Import	4,125	7,200	19,153	22,764	24,135	25,173	23,596	22,064
Export	-	-211	-885	-1,745	-1,997	-1,240	-1,287	-1,117
Final Energy Consumption	8,271	11,250	21,088	22,962	24,097	24,232	23,981	21,935
Industry	2,758	3,399	6,624	7,270	7,851	8,300	8,445	8,356
Transport	2,303	3,393	6,580	7,490	7,650	8,160	8,450	6,834
Residential	-	2,938	4,676	4,708	4,754	4,897	4,814	4,918
Commerce & Public Services	-	477	622	927	971	1,037	1,130	1,154
Others	3,210	1,043	2,586	2,568	2,870	1,837	1,142	673
Coal, Coal Products								
Primary Energy Supply	1,393	2,041	2,454	3,366	3,382	3,061	4,363	3,639
Indigenous Production	743	1,451	243	269	263	104	263	352
Import	650	1,132	2,943	2,444	3,007	3,916	4,120	3,335
Export	-	-	-27	-27	-6	-30	-9	-
Transformation Sector	-	-1,810	-2,318	-1,993	-2,610	-3,184	-3,544	-2,811
Power Generation	-439	-1,651	-2,081	-1,713	-2,363	-2,990	-3,307	-2,604
Final Energy Consumption	498	578	595	594	593	429	477	230
Industry	479	521	583	578	574	418	463	220
Transport	-	-	-	-	-	-	-	-
Residential	-	15	-	1	-	-	-	-
Commerce & Public Services	-	3	3	3	4	4	3	3
Others	19	39	9	12	14	7	10	7
Crude Oil								
Primary Energy Supply	4,919	6,657	10,932	11,444	12,367	12,227	11,439	11,437
Indigenous Production	1,568	1,129	426	343	334	549	558	672
Import	3,351	5,528	10,506	11,101	12,033	11,679	10,881	10,696
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-6,242	-11,104	-11,258	-12,149	-11,341	-11,154	-14,108
Petroleum Refineries	-4,982	-6,242	-11,104	-11,258	-12,149	-11,341	-11,154	-14,108
Petroleum Products								
Primary Energy Supply	-73	329	1,073	2,041	2,083	5,890	6,563	4,528
Import	124	540	1,930	3,759	4,075	7,100	7,841	6,689
Export	-	-211	-858	-1,718	-1,992	-1,210	-1,278	-1,117
Transformation Sector	-	5,772	9,228	9,623	10,675	7,552	7,163	7,855
Power Generation	-612	-470	-293	-984	-766	-3,098	-3,079	-2,411
Petroleum Refineries	5,180	6,243	9,521	10,614	11,452	10,665	10,267	10,272
Final Energy Consumption	4,960	5,824	10,081	10,861	11,333	12,679	13,141	12,080
Industry	1,652	1,330	2,032	2,049	2,430	3,124	3,240	3,376
Transport	2,288	3,369	6,554	7,437	7,590	8,102	8,400	6,777
Residential	-	752	1,087	879	887	945	896	957
Commerce & Public Services	-	122	159	226	207	242	342	324
Others	1,020	250	249	269	219	267	264	647
Natural Gas								
Primary Energy Supply	2,308	1,142	5,206	6,013	6,085	3,276	1,779	2,236
Indigenous Production	2,308	1,410	1,597	1,605	1,550	1,082	1,247	993
Import	-	-	3,671	5,275	4,824	2,338	655	1,228
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-13	-1,660	-2,706	-2,038	-910	-464	-1,435
Power Generation	-39	-62	-1,652	-2,710	-2,028	-918	-474	-741
Final Energy Consumption	218	951	3,331	3,530	3,791	2,325	1,416	679
Industry	68	3	672	777	659	227	58	132
Transport	-	6	8	31	32	23	13	20
Residential	-	172	266	357	360	401	366	379
Commerce & Public Services	-	28	71	89	118	133	127	143
Others	150	742	2,314	2,277	2,622	1,542	852	5
Electricity								
Power Generation	1,010	1,580	3,447	4,514	4,758	5,032	5,135	5,274
Thermal	343	720	1,444	1,694	1,773	2,549	2,536	2,370
Hydro	631	767	1,672	2,278	2,505	1,989	2,081	2,165
Nuclear	-	-	-	-	-	-	-	-
Others	36	93	331	543	479	494	518	739
Final Energy Consumption	837	1,332	3,161	4,155	4,369	4,561	4,602	4,633
Industry	476	873	2,209	2,801	2,950	3,080	3,140	3,133
Transport	15	18	19	22	28	35	37	36
Residential	-	372	532	712	735	766	752	765
Commerce & Public Services	-	60	388	609	641	659	657	684
Others	347	8	14	11	16	21	16	14

Major Economic Indicators of Chile

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	11.18	13.19	15.42	16.30	16.47	16.64	16.80	16.97
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	27.94	40.45	75.20	92.40	96.64	101.09	104.79	103.02
Real Term (Billions of 2000 Price and 2000 PPP)	53.04	76.78	142.73	175.39	183.44	191.87	198.90	195.56
Nominal (Billions of Current USD)	27.57	31.56	75.20	118.25	146.77	164.32	170.74	160.86
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	2,499	3,066	4,877	5,669	5,869	6,076	6,236	6,071
Real Term (2000 Price and 2000 PPP)	4,744	5,821	9,257	10,762	11,139	11,534	11,837	11,523
Nominal (Current USD)	2,466	2,393	4,877	7,256	8,913	9,877	10,161	9,479
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	1,075.32	9,622.32	40,575.32	66,192.60	77,830.58	85,849.77	89,205.49	90,219.53
Household Final Consumption Expenditure, etc.	760.09	5,886.61	25,897.22	38,546.47	42,301.90	46,870.22	52,808.33	54,795.70
General Government Final Consumption Expenditure	133.89	961.66	5,053.86	7,317.46	8,200.46	9,371.66	10,603.18	12,235.61
Gross Fixed Capital Formation	178.98	2,278.74	8,410.72	14,007.71	15,132.46	16,983.39	21,816.49	19,631.60
Stock Change	47.07	144.41	457.38	685.08	804.51	602.69	553.79	-2,191.41
Exports of Goods and Services	245.39	3,270.24	12,820.21	27,355.08	35,619.35	40,561.28	39,975.99	34,929.21
Imports of Goods and Services	290.10	2,939.59	12,064.06	21,719.20	23,900.83	28,539.47	36,495.23	27,809.45
Real GDP & its Components (Billions of 1986 CLP) *1								
Gross Domestic Product	17,318.50	25,067.26	46,602.20	57,262.64	59,890.97	62,646.13	64,940.43	63,848.21
Household Final Consumption Expenditure, etc.	12,047.04	14,853.03	29,260.37	36,965.16	39,583.11	42,350.31	44,297.59	44,687.37
General Government Final Consumption Expenditure	3,858.20	3,960.60	5,655.05	6,903.25	7,344.99	7,869.67	7,906.63	8,444.42
Gross Fixed Capital Formation	2,826.82	4,402.88	9,205.58	14,044.56	14,374.10	15,987.64	18,959.09	16,067.07
Stock Change	116.68	140.16	517.92	272.02	827.23	613.45	743.03	-1,509.35
Exports of Goods and Services	3,667.88	6,646.52	16,108.37	22,083.52	23,208.48	24,964.47	25,741.61	24,299.11
Imports of Goods and Services	4,330.33	5,156.14	14,197.24	23,005.87	25,446.93	29,139.42	32,693.02	28,025.12
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	5.4	6.5	4.5	5.1	5.1	4.9	4.9	5.0
Industry	41.5	38.9	35.3	34.0	33.7	32.5	31.8	31.0
Services, etc.	59.9	53.8	55.4	55.6	55.8	57.0	57.3	58.2
Manufacturing Production Index (2005=100) *2	44.1	56.9	80.0	100.0	103.2	107.5	107.7	100.5
External Trade (Billions of Current USD) *1								
Exports, f.o.b	4.705	8.372	19.210	41.267	58.680	67.972	66.465	53.735
Imports, c.i.f.	5.797	7.742	18.507	32.735	38.406	47.164	61.911	42.427
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.764	1.284	2.119	10.775	22.780	23.941	8.529	14.117
Current Account	-1.971	-0.485	-0.898	1.449	7.154	7.458	-3.307	2.570
Overall Balance	1.321	2.323	0.317	1.711	1.998	-3.214	6.461	1.648
Foreign Exchange Rate (CLP/USD) *1	39.0000	304.9033	539.5875	559.7675	530.2750	522.4642	522.4610	560.8599
Purchasing Power Parity (CLP/International Dollar) *1	37.8125	154.5417	284.2708	333.6900	363.3234	372.1866	365.2709	372.1489
Price Indices								
GDP Deflator (2003=100) *3	6.2	38.4	87.1	115.6	130.0	137.0	137.4	141.3
Industry Selling Price Index (2005=100) *2	5.3	34.2	75.4	100.0	107.0	114.1	133.1	133.5
Consumer Price Index (2005=100) *2	5.6	35.8	88.0	100.0	103.4	107.9	117.4	119.1
Growth Rate (%) *3								
Real GDP	8.15	3.70	4.49	5.56	4.59	4.60	3.66	-1.68
Population	1.45	1.79	1.23	1.06	1.04	1.03	1.01	0.99
Price								
Home & Import Goods Price Index (2000=100)	39.6	21.8	11.4	5.4	7.0	6.7	16.7	0.3
Consumer Price Index	35.1	26.0	3.8	3.1	3.4	4.4	8.7	1.5

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

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

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

Note : N.A. means "not available"

: CLP means Chilean Peso, USD means United States Dollar

: PPP means Purchasing Power Parity

3.5 China

Energy Balance Table of People's Republic of China

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2009									
Indigenous Production	1,557,291	-	189,490	-	-	-	-	-	-
Import	72,637	-	203,653	47,771	45	2,410	5,936	367	1,873
Export	-11,866	-	-5,073	-28,229	-4,940	-784	-6,245	-2	-4,597
International Marine Bunkers	-	-	-	-1,130	-	-	-501	-	-196
International Aviation Bunkers	-	-	-	-4,389	-	-	-4,389	-	-
Stock Changes	-34,029	-15,266	-6,765	-	-	-	-	-	-
Total Primary Energy Supply	1,584,033	-15,266	381,305	14,023	-4,895	1,625	-5,199	365	-2,920
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-1,042,567	83,308	-371,158	349,738	74,238	22,499	15,529	882	144,195
Main Activity Producer	-713,784	-547	-	-	-	-	-	-	-
Autoproducers	-68,894	-3,719	-64	-8,902	-1	-	-	-	-1,548
Gas Processing	-6,645	-1,090	-	-3	-	-	-	-	-
Petroleum Refineries	-	-	-371,094	358,643	74,239	22,499	15,529	882	145,743
Coal Transformation	-253,244	88,664	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-77,997	-3,125	-6,410	-6,931	-779	-	-	-32	-4,516
Discrepancy	-50,891	-994	-352	-9,798	-6,334	-0	-265	-69	-2,549
Total Final Energy Consumption	412,577	63,923	3,385	347,032	62,229	24,124	10,066	1,147	134,211
Industry Sector	325,395	58,999	2,298	91,860	8,284	24,124	-	367	21,663
Iron and Steel	49,827	19,620	0	2,243	160	-	-	14	1,140
Chemical & Petrochemical	62,838	21,819	2,074	42,493	734	24,124	-	39	2,617
Non-metallic Minerals	137,475	3,256	89	8,909	381	-	-	13	3,234
Other Industries	75,254	14,303	134	38,215	7,009	-	-	301	14,672
Transport Sector	4,207	1	-	132,489	29,162	-	9,592	75	80,498
Domestic Air Transport	-	-	-	10,413	-	-	9,592	-	238
Road	-	-	-	84,016	24,731	-	-	41	58,738
Rail	4,147	1	-	5,834	83	-	-	1	5,723
Inland Waterways	61	0	-	23,551	1,004	-	-	31	10,548
Pipeline Transport	-	-	-	73	1	-	-	-	1
Non-specified Transport	-	-	-	8,602	3,344	-	-	2	5,250
Other Sector	82,975	4,924	-	76,880	24,561	-	474	667	31,626
Residential	53,217	4,293	-	35,095	10,291	-	-	197	6,660
Commerce and Public Services	11,657	172	-	4,512	1,519	-	-	300	1,854
Agriculture	8,026	303	-	13,367	1,731	-	-	8	11,568
Non-specified Others	10,076	156	-	23,905	11,020	-	474	161	11,544
Non-energy	-	-	1,088	45,803	222	-	-	39	424
2008									
Indigenous Production	1,471,741	-	195,050	-	-	-	-	-	-
Import	24,770	0	178,885	46,171	1,995	709	6,488	236	6,369
Export	-24,125	-8,366	-4,238	-20,235	-2,042	-1,389	-5,576	-2	-643
International Marine Bunkers	-	-	-	-796	-	-	-195	-	-178
International Aviation Bunkers	-	-	-	-3,916	-	-	-3,916	-	-
Stock Changes	-24,768	-7,471	-14,712	-5,996	-1,957	-	-39	2	-4,182
Total Primary Energy Supply	1,447,619	-15,837	354,986	15,228	-2,004	-680	-3,238	236	1,367
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-986,471	80,331	-341,051	319,368	64,461	19,847	11,964	886	134,885
Main Activity Producer	-673,245	-549	-	-	-	-	-	-	-
Autoproducers	-65,860	-3,597	-98	-11,963	-1	-	-	-	-1,888
Gas Processing	-7,087	-1,823	-	-20	-	-	-	-	-
Petroleum Refineries	-	-	-340,953	331,352	64,463	19,847	11,964	886	136,773
Coal Transformation	-240,278	86,300	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-65,110	-3,430	-8,963	-8,093	-764	-	-	-33	-4,949
Discrepancy	4,442	29	-24	2,738	247	0	387	11	-145
Total Final Energy Consumption	400,480	61,093	4,948	329,241	61,941	19,167	9,113	1,100	131,158
Industry Sector	315,375	55,681	3,377	85,153	7,063	19,167	-	513	22,131
Iron and Steel	43,075	19,459	2	2,814	255	-	-	23	1,269
Chemical & Petrochemical	62,998	22,162	3,001	37,244	575	19,167	-	44	2,434
Non-metallic Minerals	132,873	2,642	178	9,996	392	-	-	24	3,362
Other Industries	76,428	11,418	197	35,098	5,841	-	-	422	15,067
Transport Sector	4,368	2	-	130,122	31,275	-	8,654	86	78,023
Domestic Air Transport	-	-	-	9,416	-	-	8,654	-	230
Road	-	-	-	83,431	26,507	-	-	50	56,371
Rail	4,309	2	-	6,480	92	-	-	1	6,363
Inland Waterways	59	0	-	22,123	1,079	-	-	33	10,057
Pipeline Transport	-	-	-	67	1	-	-	-	1
Non-specified Transport	-	-	-	8,604	3,596	-	-	2	5,000
Other Sector	80,737	5,410	-	73,718	23,410	-	459	442	30,554
Residential	53,366	4,723	-	32,461	8,808	-	-	131	6,039
Commerce and Public Services	10,558	180	-	3,844	1,393	-	-	214	1,558
Agriculture	7,724	361	-	12,934	1,653	-	-	13	11,208
Non-specified Others	9,089	147	-	24,479	11,556	-	459	84	11,748
Non-energy	-	-	1,571	40,249	194	-	-	59	450

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	79,385	52,945	18,277	-	-	-	-	1,897,388
24,072	4,896	-	-	8,172	7,107	-	-	-	-	517	-	331,685
-8,624	-1,019	-	-	-2,018	-2,988	-	-	-	-	-1,495	-	-49,650
-433	-	-	-	-	-	-	-	-	-	-	-	-1,130
-	-	-	-	-	-	-	-	-	-	-	-	-4,389
-	-	-	-	-	-	-	-	-	-	-	-	-56,060
15,015	3,878	-	-	6,154	83,505	52,945	18,277	-	-	-979	-	2,117,844
-	-	-	-	-	-	-	-	-	-	-	-	-
10,594	21,967	10,543	-	49,292	67,969	-	-18,277	-	-	319,460	64,169	-547,358
-	-	-	-	-	-368	-	-18,277	-	-	298,656	35,812	-398,507
-2,937	-13	-2,669	-	-1,734	-20,253	-	-	-	-	20,804	28,357	-52,673
-3	-	-	-	-	88,590	-	-	-	-	-	-	80,852
13,534	21,980	13,212	-	51,026	-	-	-	-	-	-	-	-12,451
-	-	-	-	-	-	-	-	-	-	-	-	-164,579
-	-	-	-	-	-	-	-	-	-	-	-	-
-468	-380	-389	-	-367	-14,689	-52,945	-	-	-	-50,815	-9,064	-221,977
-276	-21	-284	-	-0	-192	-	-	-	-	-5,866	-782	-68,874
24,864	25,443	9,870	-	55,079	136,593	-	-	-	-	261,801	54,322	1,279,634
11,407	4,825	9,808	-	11,383	102,837	-	-	-	-	177,389	35,783	794,561
586	343	-	-	-	71,097	-	-	-	-	34,576	4,908	182,273
3,325	1,967	9,687	-	-	16,565	-	-	-	-	25,001	12,543	183,334
4,111	1,144	27	-	-	5,163	-	-	-	-	18,285	256	173,433
3,385	1,372	94	-	11,383	10,012	-	-	-	-	99,526	18,076	255,521
12,506	656	-	-	-	7,598	-	-	-	-	5,306	-	149,602
582	1	-	-	-	-	-	-	-	-	-	-	10,413
33	473	-	-	-	6,770	-	-	-	-	-	-	90,786
20	7	-	-	-	11	-	-	-	-	2,803	-	12,796
11,799	169	-	-	-	-	-	-	-	-	-	-	23,612
72	-	-	-	-	125	-	-	-	-	201	-	399
-	6	-	-	-	692	-	-	-	-	2,303	-	11,596
215	19,337	-	-	-	26,157	-	-	-	-	79,106	18,539	288,580
-	17,948	-	-	-	21,231	-	-	-	-	41,901	16,013	171,750
81	758	-	-	-	2,725	-	-	-	-	9,776	813	29,655
11	49	-	-	-	-	-	-	-	-	8,083	20	29,799
123	583	-	-	-	2,201	-	-	-	-	19,346	1,693	57,377
737	625	62	-	43,696	-	-	-	-	-	-	-	46,891
-	-	-	-	-	74,759	50,326	17,823	-	6,925	-	-	1,816,625
21,861	3,111	-	-	5,402	4,286	-	-	-	-	330	-	254,443
-7,317	-814	-	-	-2,452	-3,021	-	-	-	-	-1,431	-	-61,416
-423	-	-	-	-	-	-	-	-	-	-	-	-796
-	-	-	-	-	-	-	-	-	-	-	-	-3,916
83	97	-	-	-	-	-	-	-	-	-	-	-52,947
14,203	2,394	-	-	2,949	76,025	50,326	17,823	-	6,925	-1,101	-	1,951,993
-	-	-	-	-	-	-	-	-	-	-	-	-
10,981	22,903	9,742	-	43,700	61,374	-50,326	-17,823	-	-3,595	298,152	61,971	-578,070
-	-	-	-	-	-331	-50,326	-17,823	-	-3,595	278,950	34,606	-432,314
-6,373	-74	-2,314	-	-1,312	-14,412	-	-	-	-	19,202	27,365	-49,363
-20	-	-	-	-	76,117	-	-	-	-	-	-	67,187
17,374	22,977	12,056	-	45,011	-	-	-	-	-	-	-	-9,602
-	-	-	-	-	-	-	-	-	-	-	-	-153,978
-	-	-	-	-	-	-	-	-	-	-	-	-
-740	-875	-420	-	-312	-13,363	-	-	-	-45	-53,208	-8,973	-161,184
2,389	56	-8	-	-200	-338	-	-	-	-16	-4	-810	6,017
26,832	24,479	9,315	-	46,137	123,698	-	-	-	3,269	243,839	52,188	1,218,756
14,296	4,496	9,256	-	8,231	88,727	-	-	-	3,269	167,819	34,764	754,164
977	291	-	-	-	60,024	-	-	-	-	31,761	3,941	161,075
4,098	1,809	9,118	-	-	14,768	-	-	-	-	23,748	12,609	176,531
5,151	1,042	26	-	-	4,737	-	-	-	-	16,853	253	167,532
4,070	1,353	113	-	8,231	9,198	-	-	-	3,269	95,458	17,960	249,026
11,428	657	-	-	-	5,891	-	-	-	-	4,918	-	145,300
531	1	-	-	-	-	-	-	-	-	-	-	9,416
30	472	-	-	-	5,218	-	-	-	-	-	-	88,650
16	8	-	-	-	10	-	-	-	-	2,573	-	13,375
10,785	169	-	-	-	-	-	-	-	-	-	-	22,182
66	-	-	-	-	97	-	-	-	-	186	-	349
-	7	-	-	-	565	-	-	-	-	2,159	-	11,328
172	18,681	-	-	-	25,017	-	-	-	-	71,102	17,425	273,409
-	17,484	-	-	-	21,087	-	-	-	-	37,806	15,001	164,445
63	616	-	-	-	1,982	-	-	-	-	8,750	814	26,128
15	45	-	-	-	-	-	-	-	-	7,629	20	28,667
95	536	-	-	-	1,948	-	-	-	-	16,917	1,590	54,169
936	646	59	-	37,906	4,064	-	-	-	-	-	-	45,883

Major Energy Indicators of People's Republic of China

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	421,007	654,004	905,175	1,539,359	1,678,153	1,793,278	1,951,993	2,117,844
Indigenous Production	436,251	705,811	865,531	1,426,025	1,536,025	1,637,717	1,816,625	1,897,388
Import	1,824	8,436	96,856	184,280	213,760	240,314	254,443	331,685
Export	-21,406	-38,922	-64,437	-46,884	-68,359	-63,992	-61,416	-49,650
Final Energy Consumption	318,167	489,928	634,676	903,638	973,376	1,051,475	1,218,756	1,279,634
Industry	217,327	329,825	379,343	527,901	576,843	628,050	754,164	794,561
Transport	14,999	28,776	60,078	104,959	113,132	126,222	145,300	149,602
Residential	83,739	-	81,851	125,945	133,596	141,097	164,445	171,750
Commerce & Public Services	8,656	-	14,140	27,440	25,623	28,109	26,128	29,655
Others	-6,554	131,327	99,264	117,393	124,183	127,997	128,719	134,066
Coal, Coal Products								
Primary Energy Supply	312,823	512,155	631,243	1,122,099	1,222,426	1,304,830	1,431,782	1,568,767
Indigenous Production	310,081	539,952	649,618	1,143,269	1,239,304	1,322,584	1,471,741	1,557,291
Import	995	877	1,496	15,686	23,048	30,634	24,770	72,637
Export	-3,344	-7,785	-40,130	-18,528	-43,008	-38,343	-32,491	-11,866
Transformation Sector	-	-	-	-676,278	-791,534	-851,530	-906,139	-959,259
Power Generation	-57,524	-119,784	-327,372	-583,983	-669,250	-732,685	-743,252	-786,944
Final Energy Consumption	225,420	338,239	296,805	367,076	375,586	392,470	461,573	476,501
Industry	146,103	224,832	216,937	278,711	293,303	312,198	371,056	384,394
Transport	10,112	11,089	5,540	5,470	4,764	4,504	4,370	4,208
Residential	70,524	-	42,496	57,455	55,217	53,274	58,089	57,509
Commerce & Public Services	3,709	-	4,275	9,674	5,865	5,781	10,737	11,829
Others	-5,028	102,319	27,556	15,766	16,437	16,713	17,321	18,561
Crude Oil								
Primary Energy Supply	92,231	117,828	213,834	299,315	322,492	340,351	354,986	381,305
Indigenous Production	105,948	138,448	163,003	181,353	184,766	186,318	195,050	189,490
Import	366	2,926	70,267	126,817	145,175	163,160	178,885	203,653
Export	-13,309	-24,014	-10,306	-8,067	-6,337	-3,884	-4,238	-5,073
Transformation Sector	-	-	-	-290,621	-310,698	-328,491	-341,051	-371,158
Petroleum Refineries	-78,692	-109,722	-203,057	-290,405	-310,460	-328,326	-340,953	-371,094
Petroleum Products								
Primary Energy Supply	-4,268	-3,389	10,828	19,828	24,481	18,847	15,228	14,023
Import	463	4,634	24,960	41,484	44,985	42,412	46,171	47,771
Export	-4,753	-7,123	-10,229	-16,710	-15,260	-18,092	-20,235	-28,229
Transformation Sector	-	-	-	264,109	283,070	306,020	319,368	349,738
Power Generation	-14,928	-11,140	-15,203	-19,899	-17,577	-13,031	-11,963	-8,902
Petroleum Refineries	77,904	107,409	198,116	284,152	300,781	319,100	331,352	358,643
Final Energy Consumption	49,729	80,728	187,223	277,903	301,060	318,263	329,241	347,032
Industry	32,880	47,912	62,920	77,324	85,486	84,896	85,153	91,860
Transport	4,638	16,676	51,830	94,924	103,592	116,165	130,122	132,489
Residential	11,625	-	14,615	20,728	22,981	26,064	32,461	35,095
Commerce & Public Services	2,979	-	5,677	9,543	10,354	11,660	3,844	4,512
Others	-2,393	16,140	52,181	75,385	78,647	79,477	77,661	83,075
Natural Gas								
Primary Energy Supply	13,285	14,242	22,401	44,665	51,903	65,784	76,025	83,505
Indigenous Production	13,285	14,242	25,323	47,429	54,513	64,462	74,759	79,385
Import	-	-	-	-	88	3,743	4,286	7,107
Export	-	-	-2,922	-2,764	-2,698	-2,421	-3,021	-2,988
Transformation Sector	-	-	-	2,492	2,374	-1,961	61,374	67,969
Power Generation	-223	-680	-4,855	-5,092	-5,482	-9,357	-14,743	-20,621
Final Energy Consumption	12,158	13,205	24,087	38,454	45,062	53,248	123,698	136,593
Industry	11,917	11,084	14,147	20,241	24,399	28,122	88,727	102,837
Transport	9	47	93	863	757	979	5,891	7,598
Residential	335	-	4,810	11,103	13,823	16,816	21,087	21,231
Commerce & Public Services	46	-	378	1,226	1,475	1,931	1,982	2,725
Others	-149	2,074	4,659	5,021	4,608	5,401	6,011	2,201
Electricity								
Power Generation	27,447	53,440	116,428	214,823	246,452	282,214	298,152	319,460
Thermal	22,060	42,540	94,348	173,981	201,513	231,622	238,290	313,368
Hydro	5,387	10,900	19,134	34,143	37,478	41,733	50,326	-
Nuclear	-	-	1,454	4,612	4,764	5,397	5,941	6,092
Others	-	-	1,491	2,087	2,698	3,462	3,595	-
Final Energy Consumption	24,718	52,150	90,621	169,807	199,419	229,950	243,839	261,801
Industry	20,284	40,392	59,109	116,274	138,215	162,640	167,819	177,389
Transport	241	964	2,419	3,701	4,019	4,574	4,918	5,306
Residential	957	-	14,384	24,293	27,964	31,155	37,806	41,901
Commerce & Public Services	779	-	3,387	6,470	7,286	7,996	8,750	9,776
Others	2,457	10,794	11,323	19,068	21,934	23,584	24,546	27,429

Major Economic Indicators of People's Republic of China

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	981.24	1,135.19	1,262.65	1,303.72	1,311.02	1,317.89	1,324.66	1,331.46
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	182.94	444.59	1,198.47	1,908.77	2,151.18	2,456.65	2,692.49	2,940.19
Real Term (Billions of 2000 Price and 2000 PPP)	455.70	1,107.49	2,985.38	4,754.75	5,358.61	6,119.53	6,707.00	7,324.02
Nominal (Billions of Current USD)	303.36	390.28	1,198.47	2,256.90	2,712.94	3,494.04	4,519.51	4,990.22
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	186	392	949	1,464	1,641	1,864	2,033	2,208
Real Term (2000 Price and 2000 PPP)	464	976	2,364	3,647	4,087	4,643	5,063	5,501
Nominal (Current USD)	309	344	949	1,731	2,069	2,651	3,412	3,748
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	454.56	1,866.78	9,921.50	18,493.74	21,631.44	26,581.03	31,404.54	34,090.28
Household Final Consumption Expenditure, etc.	233.12	945.09	4,585.46	7,265.25	8,210.35	9,560.98	11,059.45	12,171.28
General Government Final Consumption Expenditure	67.67	263.96	1,566.14	2,639.88	3,052.84	3,590.04	4,175.21	4,441.34
Gross Fixed Capital Formation	132.24	482.78	3,384.44	7,423.29	8,795.41	10,394.86	12,808.44	15,533.33
Stock Change	27.73	191.92	99.84	362.39	500.00	699.46	1,024.09	696.38
Exports of Goods and Services	48.40	300.07	2,314.32	6,857.71	8,465.21	10,210.83	10,985.15	9,106.44
Imports of Goods and Services	50.06	244.27	2,075.29	5,835.08	6,799.47	7,871.70	8,562.22	7,603.16
Real GDP & its Components (Billions of 1990 CNY) *1								
Gross Domestic Product	1,514.47	3,680.58	9,921.50	15,801.77	17,808.59	20,337.41	22,289.81	24,340.36
Household Final Consumption Expenditure, etc.	845.24	1,974.01	4,585.46	6,281.05	6,836.66	7,551.80	8,180.77	8,950.26
General Government Final Consumption Expenditure	245.39	550.30	1,566.14	2,282.26	2,542.06	2,835.61	3,088.44	3,276.83
Gross Fixed Capital Formation	456.39	947.54	3,384.44	6,059.22	6,813.06	7,704.08	8,452.86	10,363.56
Stock Change	95.47	375.84	99.84	416.77	557.97	770.07	1,000.75	1,094.21
Exports of Goods and Services	401.38	526.87	2,314.32	6,554.96	8,120.77	9,731.28	10,549.91	9,460.65
Imports of Goods and Services	286.30	404.35	2,075.29	5,229.02	6,067.88	6,913.26	7,175.00	7,472.54
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	37.3	27.9	15.1	11.5	10.7	9.7	9.3	8.9
Industry	34.1	34.8	45.9	48.2	48.5	48.8	49.0	49.3
Services, etc.	28.6	37.3	39.0	40.4	40.9	41.5	41.7	41.7
Industrial Production Index (2000=100) *3*4	10.9	27.3	100.0	167.6	189.2	217.4	239.0	259.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.099	62.091	249.203	761.953	968.978	1,220.456	1,430.693	1,201.534
Imports, c.i.f.	19.941	53.345	225.094	659.953	791.461	956.116	1,132.567	1,005.688
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	9.165	34.474	134.189	217.746	315.381	360.682	249.509
Current Account	N.A.	11.997	20.518	134.082	232.746	353.996	412.364	261.120
Overall Balance	N.A.	12.047	10.693	250.975	284.651	460.651	479.553	400.508
Foreign Exchange Rate (CNY/USD) *1	1.4984	4.7832	8.2785	8.1943	7.9734	7.6075	6.9487	6.8314
Purchasing Power Parity (CNY/International Dollar) *1	1.8534	2.0705	3.3234	3.4476	3.4654	3.6223	3.8215	3.7641
Price Indices								
GDP Deflator (2000=100) *4	30.0	50.7	100.0	117.0	121.5	130.7	140.9	140.1
Wholesale Price Index (1995=100) *4	29.6	51.8	98.7	108.5	111.8	115.2	123.2	116.5
Consumer Price Index (1995=100) *4	30.4	58.3	99.5	100.9	101.9	105.8	112.0	110.7
Growth Rate (%)								
Real GDP *4	7.80	3.80	8.40	11.30	12.70	14.20	9.60	9.20
Population *4	1.26	1.48	0.79	0.59	0.56	0.52	0.51	0.51
Price *4								
Wholesale Price Index	0.5	4.1	2.8	4.9	3.0	3.1	6.9	-5.4
Consumer Price Index	6.0	2.1	-1.5	0.8	1.0	3.8	5.9	-1.2

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	
2009									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	7,767	-	-	19,318	404	261	4,845	22	6,196
Export	-0	-	-	-778	-27	-	-133	-	-90
International Marine Bunkers	-	-	-	-9,947	-	-	-	-	-4,259
International Aviation Bunkers	-	-	-	-4,769	-	-	-4,769	-	-
Stock Changes	-613	-	-	-835	-3	27	59	-	-52
Total Primary Energy Supply	7,154	-	-	2,988	374	288	2	22	1,795
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,154	-	-	-333	-	-288	-	-	-17
Main Activity Producer	-7,154	-	-	-45	-	-	-	-	-17
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-288	-	-288	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-	-32	69	-	3	-1	-222
Total Final Energy Consumption	0	-	-	2,623	443	-	5	22	1,557
Industry Sector	0	-	-	308	-	-	-	-	189
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	0	-	-	308	-	-	-	-	189
Transport Sector	-	-	-	2,095	443	-	5	-	1,280
Domestic Air Transport	-	-	-	5	-	-	5	-	-
Road	-	-	-	1,898	436	-	-	-	1,095
Rail	-	-	-	0	-	-	-	-	0
Inland Waterways	-	-	-	192	7	-	-	-	185
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	220	-	-	-	22	87
Residential	-	-	-	64	-	-	-	1	-
Commerce and Public Services	-	-	-	157	-	-	-	21	87
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	-	-	-	-	-	-
2008									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	7,146	-	-	15,852	384	338	5,055	20	2,852
Export	-0	-	-	-838	-36	-	-181	-	-181
International Marine Bunkers	-	-	-	-6,911	-	-	-	-	-1,222
International Aviation Bunkers	-	-	-	-3,758	-	-	-3,758	-	-
Stock Changes	-296	-	-	-428	4	13	-266	-	32
Total Primary Energy Supply	6,850	-	-	3,917	352	351	849	20	1,481
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-6,850	-	-	-387	-	-351	-	-	-6
Main Activity Producer	-6,850	-	-	-36	-	-	-	-	-6
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-351	-	-351	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-0	-	-	-766	83	0	-844	-	356
Total Final Energy Consumption	-	-	-	2,764	435	-	5	20	1,831
Industry Sector	-	-	-	453	-	-	-	-	453
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	453	-	-	-	-	453
Transport Sector	-	-	-	2,084	435	-	5	-	1,289
Domestic Air Transport	-	-	-	5	-	-	5	-	-
Road	-	-	-	1,866	429	-	-	-	1,081
Rail	-	-	-	0	-	-	-	-	0
Inland Waterways	-	-	-	213	5	-	-	-	208
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	227	-	-	-	20	88
Residential	-	-	-	68	-	-	-	1	-
Commerce and Public Services	-	-	-	159	-	-	-	19	88
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	65	-	-	65
7,172	417	-	-	-	2,293	-	-	-	7	997	-	30,381
-527	-1	-	-	-	-	-	-	-	-2	-321	-	-1,101
-5,689	-	-	-	-	-	-	-	-	-	-	-	-9,947
-	-	-	-	-	-	-	-	-	-	-	-	-4,769
-929	63	-	-	-	219	-	-	-	-	-	-	-1,229
28	479	-	-	-	2,512	-	-	0	69	676	-	13,400
-	-	-	-	-	-	-	-	-	-	-	-	-
-28	-	-	-	-	-1,861	-	-	-	-28	3,563	-	-5,813
-28	-	-	-	-	-1,861	-	-	-	-	3,551	-	-5,509
-	-	-	-	-	-	-	-	-	-12	12	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-288
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-16	-	-	-16
-	-	-	-	-	-	-	-	-	-	-229	-	-229
118	0	-	-	-	-0	-	-	-0	-0	-438	-	-470
118	479	-	-	-	651	-	-	0	41	3,572	-	6,887
118	-	-	-	-	22	-	-	-	37	270	-	636
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
118	-	-	-	-	22	-	-	-	37	270	-	636
-	368	-	-	-	-	-	-	-	-	60	-	2,155
-	-	-	-	-	-	-	-	-	-	-	-	5
-	368	-	-	-	-	-	-	-	-	-	-	1,898
-	-	-	-	-	-	-	-	-	-	60	-	60
-	-	-	-	-	-	-	-	-	-	-	-	192
-	-	-	-	-	-	-	-	-	-	-	-	-
-	111	-	-	-	630	-	-	0	4	3,242	-	4,096
-	63	-	-	-	366	-	-	-	-	931	-	1,360
-	48	-	-	-	264	-	-	-	4	2,311	-	2,736
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	0	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	98	-	-	98
6,775	428	-	-	-	2,041	-	-	-	5	972	-	26,015
-439	-	-	-	-	-	-	-	-	-2	-306	-	-1,145
-5,689	-	-	-	-	-	-	-	-	-	-	-	-6,911
-	-	-	-	-	-	-	-	-	-	-	-	-3,758
-256	46	-	-	-	-171	-	-	-	-	-	-	-895
391	474	-	-	-	1,870	-	-	-	100	666	-	13,402
-	-	-	-	-	-	-	-	-	-	-	-	-
-30	-	-	-	-	-1,277	-	-	-	-98	3,586	-	-5,025
-30	-	-	-	-	-1,500	-	-	-	-	3,483	-	-4,903
-	-	-	-	-	-	-	-	-	-98	103	-	6
-	-	-	-	-	223	-	-	-	-	-	-	-127
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-629	-	-629
-361	-0	-	-	-	-0	-	-	-	-	-103	-	-869
-	474	-	-	-	593	-	-	-	3	3,520	-	6,879
-	-	-	-	-	19	-	-	-	-	291	-	764
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	19	-	-	-	-	291	-	764
-	355	-	-	-	-	-	-	-	-	60	-	2,144
-	-	-	-	-	-	-	-	-	-	-	-	5
-	355	-	-	-	-	-	-	-	-	-	-	1,866
-	-	-	-	-	-	-	-	-	-	60	-	60
-	-	-	-	-	-	-	-	-	-	-	-	213
-	-	-	-	-	-	-	-	-	-	-	-	-
-	118	-	-	-	573	-	-	-	3	3,169	-	3,971
-	67	-	-	-	335	-	-	-	-	886	-	1,289
-	51	-	-	-	238	-	-	-	3	2,282	-	2,682
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Hong Kong, China

ktoe

	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	5,293	10,643	15,094	14,094	13,627	13,968	13,402	13,400
Indigenous Production	-	-	-	81	93	98	98	65
Import	6,195	12,918	19,786	25,210	26,740	28,377	26,015	30,381
Export	-199	-2,123	-1,557	-1,763	-1,577	-1,309	-1,146	-1,101
Final Energy Consumption	3,464	6,689	11,204	6,696	6,840	7,106	6,879	6,887
Industry	1,040	1,516	1,714	574	546	656	764	636
Transport	1,512	3,136	6,088	2,334	2,414	2,429	2,144	2,155
Residential	-	-	-	1,220	1,252	1,299	1,289	1,360
Commerce & Public Services	-	-	-	2,440	2,629	2,722	2,682	2,736
Others	912	2,037	3,401	128	-0	-	-	0
Coal, Coal Products								
Primary Energy Supply	20	6,008	4,125	6,870	6,851	7,480	6,850	7,154
Indigenous Production	-	-	-	-	-	-	-	-
Import	21	5,362	3,658	6,826	7,182	7,727	7,146	7,767
Export	-1	-1	-24	-0	-0	-2	-0	-0
Transformation Sector	-	-	-	-6,869	-6,851	-7,478	-6,850	-7,154
Power Generation	-	-5,996	-4,121	-6,869	-6,851	-7,478	-6,850	-7,154
Final Energy Consumption	20	12	4	1	0	2	-	0
Industry	-	-	-	1	0	2	-	0
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	20	12	4	-	-	-	-	-
Crude Oil								
Primary Energy Supply	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-
Petroleum Products								
Primary Energy Supply	5,299	4,790	8,186	4,552	3,971	3,924	3,917	2,988
Import	6,174	7,556	13,245	15,405	16,436	17,666	15,852	19,318
Export	-172	-1,967	-1,431	-1,377	-1,187	-960	-838	-778
Transformation Sector	-	-	-	-756	-627	-393	-387	-333
Power Generation	-2,789	-126	-37	-38	-37	-30	-36	-45
Petroleum Refineries	-	-	-	-	-	-	-	-
Final Energy Consumption	2,430	4,304	7,518	2,665	2,790	2,935	2,764	2,623
Industry	674	908	1,269	204	191	319	453	308
Transport	1,512	3,136	6,088	2,210	2,355	2,370	2,084	2,095
Residential	-	-	-	33	81	74	68	64
Commerce & Public Services	-	-	-	89	162	171	159	157
Others	243	260	161	128	-	-	-	-
Natural Gas								
Primary Energy Supply	-	-	2,007	2,033	2,164	1,870	1,870	2,512
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	2,007	2,033	2,185	2,041	2,041	2,293
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-1,447	-1,583	-827	-1,277	-1,861
Power Generation	-	-	-2,007	-2,033	-2,164	-1,224	-1,500	-1,861
Final Energy Consumption	76	324	560	586	581	646	593	651
Industry	5	13	21	19	19	21	19	22
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	332	324	354	335	366
Commerce & Public Services	-	-	-	235	238	270	238	264
Others	71	311	539	-	-	-	-	-
Electricity								
Power Generation	1,088	2,488	2,694	3,307	3,806	3,937	3,586	3,563
Thermal	1,088	2,488	2,694	3,266	3,760	3,839	3,489	3,551
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	41	46	98	98	12
Final Energy Consumption	939	2,049	3,121	3,444	3,469	3,523	3,520	3,572
Industry	361	596	424	350	335	313	291	270
Transport	-	-	-	123	58	60	60	60
Residential	-	-	-	856	846	870	886	931
Commerce & Public Services	-	-	-	2,116	2,229	2,280	2,282	2,311
Others	578	1,454	2,697	-	-0	-	-	-

Major Economic Indicators of Hong Kong, China

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	5.06	5.70	6.67	6.81	6.86	6.93	6.98	7.00
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	60.15	115.16	169.12	207.09	221.62	235.78	241.22	234.80
Real Term (Billions of 2000 Price and 2000 PPP)	62.58	119.82	175.96	215.46	230.59	245.32	250.98	244.30
Nominal (Billions of Current USD)	28.82	76.89	169.12	177.77	189.93	207.09	215.36	209.28
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	11,880	20,188	25,374	30,395	32,320	34,044	34,570	33,526
Real Term (2000 Price and 2000 PPP)	12,361	21,005	26,401	31,624	33,627	35,421	35,968	34,882
Nominal (Current USD)	5,692	13,479	25,374	26,092	27,699	29,900	30,865	29,882
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	143.40	598.95	1,317.65	1,382.59	1,475.36	1,615.57	1,677.01	1,622.32
Household Final Consumption Expenditure, etc.	85.41	342.17	777.14	804.94	863.59	972.03	1,022.68	1,004.24
General Government Final Consumption Expenditure	8.71	43.14	120.17	121.44	123.03	130.40	139.37	142.78
Gross Fixed Capital Formation	46.23	156.16	347.38	289.17	322.69	325.37	334.20	340.86
Stock Change	3.75	5.73	14.40	-4.76	-2.13	12.84	8.39	27.62
Exports of Goods and Services	127.48	782.38	1,887.70	2,747.14	3,032.41	3,359.58	3,561.25	3,163.76
Imports of Goods and Services	128.17	730.62	1,829.14	2,575.33	2,864.24	3,184.76	3,390.57	3,046.98
Real GDP & its Components (Billions of 2000 HKD) *1								
Gross Domestic Product	415.60	795.69	1,168.51	1,430.82	1,531.26	1,629.09	1,666.66	1,622.32
Household Final Consumption Expenditure, etc.	260.77	507.73	770.33	845.46	895.55	972.03	1,022.68	1,019.07
General Government Final Consumption Expenditure	42.28	78.57	117.14	126.28	126.63	130.40	139.37	142.65
Gross Fixed Capital Formation	114.47	176.69	278.84	293.61	314.53	325.35	334.20	328.02
Stock Change	12.90	7.10	14.80	-4.82	-1.43	12.84	8.39	28.46
Exports of Goods and Services	238.22	785.22	1,835.25	2,833.47	3,100.94	3,359.58	3,561.25	3,201.47
Imports of Goods and Services	229.56	755.52	1,847.04	2,674.52	2,917.73	3,184.76	3,390.57	3,090.60
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	N.A.	0.1	0.1	0.1	0.1	0.0	N.A.
Industry	N.A.	N.A.	12.4	8.6	7.8	7.3	7.1	N.A.
Services, etc.	N.A.	N.A.	92.7	86.7	88.1	87.5	87.8	N.A.
Manufacturing Production (2005=100) *2	#N/A	112.6	94.0	100.0	102.2	100.8	94.0	86.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	20.323	82.390	202.683	292.119	322.669	349.386	370.242	329.422
Imports, c.i.f.	22.994	84.725	214.042	300.160	335.754	370.132	392.962	352.241
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	-8.193	-7.627	-14.033	-19.701	-23.117	-26.862
Current Account	N.A.	N.A.	6.993	20.181	22.928	25.547	29.494	17.963
Overall Balance	N.A.	N.A.	10.044	1.378	6.016	14.704	33.948	70.860
Foreign Exchange Rate (HKD/USD) *1	4.9761	7.7898	7.7912	7.7773	7.7678	7.8014	7.7868	7.7518
Purchasing Power Parity (HKD/International Dollar) *1	4.2575	6.1402	7.4883	5.6878	5.4926	5.4919	5.4535	5.3702
Price Indices								
GDP Deflator (2007=100) *3	34.5	75.3	112.8	96.6	96.3	99.2	100.6	100.0
Producer Price Index (2005=100) *2	N.A.	103.7	111.2	100.0	102.2	105.3	111.2	109.3
Consumer Price Index (2005=100) *2	N.A.	70.8	107.1	100.0	102.1	104.1	108.5	109.2
Growth Rate (%) *3								
Real GDP	10.31	3.90	7.95	7.08	7.02	6.39	2.31	-2.66
Population	2.71	0.32	0.89	0.44	0.64	1.00	0.75	0.37
Price								
Producer Price Index	N.A.	N.A.	0.2	-7.9	2.2	3.0	5.6	-1.7
Consumer Price Index	N.A.	10.3	-13.5	0.9	2.1	2.0	4.3	0.6

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"

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

: PPP means Purchasing Power Parity

Energy Price of Hong Kong, China in 2009

Currency Exchange Rate

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

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES			WHOLESALE PRICES			CONSUMER PRICES		
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal			Coking Coal		
Anthracite	HK\$ / t	1,134.00	Anthracite			Anthracite		
Other bituminous coal	HK\$ / t	651.00	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	4.49	LPG			LPG	HK\$ / kg	15.95
Naphtha			Naphtha			Naphtha		
Motor Gasoline	HK\$ / l	3.94	Motor Gasoline			Motor Gasoline	HK\$ / l	12.53
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	HK\$ / l	3.44	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	2.71	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	1.77	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	3.47				Environmental diesel oil (road)	HK\$ / l	8.63

3.7 Indonesia

Energy Balance Table of Indonesia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products				
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene
2009								
Indigenous Production	150,835	-	53,314	1,118	-	-	-	-
Import	40	-	18,284	18,856	8,539	-	32	6,601
Export	-116,424	-	-20,376	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-
Stock Changes	-1,647	-	976	-	-	-	-	-
Total Primary Energy Supply	32,805	-	52,198	19,973	8,539	-	32	6,601
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-21,539	29	-50,975	32,783	9,609	-	2,212	3,843
Main Activity Producer	-21,503	-	-	-8,188	-	-	-	-5,137
Autoproducers	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-50,975	40,971	9,609	-	2,212	3,843
Coal Transformation	-36	29	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-78	-32	-	-	-8
Discrepancy	-	-0	-1,223	-2,062	762	-	61	119
Total Final Energy Consumption	11,265	29	-	50,616	18,879	-	2,305	3,954
Industry Sector	11,265	29	-	6,347	-	-	-	226
Iron and Steel	151	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-
Non-metallic Minerals	4,057	-	-	-	-	-	-	-
Other Industries	7,057	29	-	6,347	-	-	-	226
Transport Sector	-	-	-	30,711	18,879	-	2,305	1
Domestic Air Transport	-	-	-	2,306	1	-	2,305	-
Road	-	-	-	18,336	18,336	-	-	-
Rail	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	10,069	542	-	-	1
Other Sector	-	-	-	10,383	-	-	3,726	3,059
Residential	-	-	-	6,665	-	-	3,385	-
Commerce and Public Services	-	-	-	983	-	-	187	674
Agriculture	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	2,735	-	-	155	2,385
Non-energy	-	-	-	3,175	-	-	-	-
2008								
Indigenous Production	134,652	-	55,318	1,087	-	-	-	-
Import	63	-	12,839	20,618	7,075	-	656	275
Export	-94,080	-	-20,619	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-
Stock Changes	-	-	976	-	-	-	-	-
Total Primary Energy Supply	40,635	-	48,514	21,705	7,075	-	656	275
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-18,277	21	-47,601	34,958	9,691	-	1,491	6,317
Main Activity Producer	-18,252	-	-	-9,692	-	-	-	-6,508
Autoproducers	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-47,601	44,650	9,691	-	1,491	6,317
Coal Transformation	-25	21	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-939	-78	-32	-	-	-13
Discrepancy	-	-	26	-2,309	-582	-	54	-43
Total Final Energy Consumption	22,357	21	-	54,276	16,152	-	2,201	6,536
Industry Sector	22,357	21	-	6,288	-	-	-	373
Iron and Steel	187	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-
Non-metallic Minerals	4,023	-	-	-	-	-	-	-
Other Industries	18,147	21	-	6,288	-	-	-	373
Transport Sector	-	-	-	26,001	16,152	-	2,201	2
Domestic Air Transport	-	-	-	2,202	1	-	2,201	-
Road	-	-	-	15,681	15,681	-	-	-
Rail	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	8,118	470	-	-	2
Other Sector	-	-	-	11,197	-	-	6,160	2,763
Residential	-	-	-	7,495	-	-	5,595	-
Commerce and Public Services	-	-	-	1,060	-	-	309	608
Agriculture	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	2,642	-	-	256	2,155
Non-energy	-	-	-	10,790	-	-	-	-

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
-	1,118	-	-	-	77,022	954	-	7,244	-	-	-	290,486
2,588	1,095	-	-	-	-	-	-	-	-	-	-	37,181
-	-	-	-	-	-32,180	-	-	-	-	-	-	-168,980
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-671
2,588	2,212	-	-	-	44,842	954	-	7,244	-	-	-	158,016
-	-	-	-	-	-	-	-	-	-	-	-	-
642	918	-	-	6,649	-15,079	-954	-	-7,244	-	13,074	-	-49,906
-3,051	-	-	-	-	-8,674	-954	-	-7,244	-	13,074	-	-33,489
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-6,406	-	-	-	-	-	-	-6,406
3,693	918	-	-	6,649	-	-	-	-	-	-	-	-10,005
-	-	-	-	-	-	-	-	-	-	-	-	-7
-	-	-	-	-	-	-	-	-	-	-	-	-
-3	-	-	-	-	-13,420	-	-	-	-	-1,294	-	-14,792
-1,796	406	-	-	-3,474	2,344	-	-	-	-	-196	-	-1,136
1,430	3,536	-	-	3,175	18,688	-	-	-	-	11,584	-	92,182
1,212	134	-	-	-	15,509	-	-	-	-	3,974	-	37,124
-	-	-	-	-	1,205	-	-	-	-	-	-	1,356
-	-	-	-	-	5,135	-	-	-	-	-	-	5,135
-	-	-	-	-	1,132	-	-	-	-	-	-	5,189
1,212	134	-	-	-	8,036	-	-	-	-	3,974	-	25,444
24	-	-	-	-	8	-	-	-	-	10	-	30,729
-	-	-	-	-	-	-	-	-	-	-	-	2,306
-	-	-	-	-	8	-	-	-	-	-	-	18,344
-	-	-	-	-	-	-	-	-	-	10	-	10
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	10,069
195	3,403	-	-	-	121	-	-	-	-	7,600	-	18,104
-	3,281	-	-	-	18	-	-	-	-	4,725	-	11,409
-	122	-	-	-	102	-	-	-	-	2,875	-	3,960
-	-	-	-	-	-	-	-	-	-	-	-	-
195	-	-	-	-	-	-	-	-	-	-	-	2,735
-	-	-	-	3,175	3,051	-	-	-	-	-	-	6,226
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,087	-	-	-	72,604	991	-	7,146	-	-	-	271,799
2,588	499	-	-	-	-	-	-	-	-	-	-	33,520
-	-	-	-	-	-33,873	-	-	-	-	-	-	-148,572
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	976
2,588	1,586	-	-	-	38,731	991	-	7,146	-	-	-	157,722
-	-	-	-	-	-	-	-	-	-	-	-	-
509	931	-	-	10,790	-12,689	-991	-	-7,146	-	12,852	-	-38,874
-3,183	-	-	-	-	-5,961	-991	-	-7,146	-	12,852	-	-29,191
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-6,727	-	-	-	-	-	-	-6,727
3,693	931	-	-	10,790	-	-	-	-	-	-	-	-2,952
-	-	-	-	-	-	-	-	-	-	-	-	-5
-	-	-	-	-	-	-	-	-	-	-	-	-
-3	-	-	-	-	-12,030	-	-	-	-	-1,498	-	-14,545
-1,395	-316	-	-	-	-1,424	-	-	-	-	-251	-	-3,958
1,699	2,200	-	-	10,790	12,589	-	-	-	-	11,103	-	100,345
1,440	157	-	-	-	9,452	-	-	-	-	4,125	-	42,244
-	-	-	-	-	1,407	-	-	-	-	-	-	1,593
-	-	-	-	-	3,623	-	-	-	-	-	-	3,623
-	-	-	-	-	1,175	-	-	-	-	-	-	5,199
1,440	157	-	-	-	3,247	-	-	-	-	4,125	-	31,829
28	-	-	-	-	17	-	-	-	-	7	-	26,025
-	-	-	-	-	-	-	-	-	-	-	-	2,202
-	-	-	-	-	17	-	-	-	-	-	-	15,698
-	-	-	-	-	-	-	-	-	-	7	-	7
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	8,118
232	2,043	-	-	-	68	-	-	-	-	6,970	-	18,236
-	1,900	-	-	-	18	-	-	-	-	4,316	-	11,829
-	144	-	-	-	50	-	-	-	-	2,654	-	3,765
-	-	-	-	-	-	-	-	-	-	-	-	-
232	-	-	-	-	-	-	-	-	-	-	-	2,642
-	-	-	-	10,790	3,051	-	-	-	-	-	-	13,841

Major Energy Indicators of Indonesia

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	31,067	53,252	101,236	130,970	130,520	133,746	157,722	158,016
Indigenous Production	92,083	119,434	183,995	206,158	228,760	238,064	271,799	290,486
Import	7,367	9,999	21,403	41,760	33,291	37,263	33,520	37,181
Export	-68,076	-75,853	-103,804	-115,627	-131,531	-144,127	-148,572	-168,980
Final Energy Consumption	21,078	33,956	63,569	74,750	74,906	88,297	100,345	92,182
Industry	6,756	11,767	22,658	29,104	30,239	35,427	42,244	37,124
Transport	6,236	11,205	21,452	25,858	25,512	26,515	26,025	30,729
Residential	-	-	-	13,227	12,449	12,018	11,829	11,409
Commerce & Public Services	-	-	-	1,679	1,961	3,712	3,765	3,960
Others	8,086	10,985	19,459	4,883	4,745	10,624	16,483	8,960
Coal, Coal Products								
Primary Energy Supply	166	4,056	10,956	23,742	27,315	34,337	40,635	32,805
Indigenous Production	200	5,785	44,007	82,754	105,348	121,445	134,652	150,835
Import	26	663	272	53	60	38	63	40
Export	-59	-2,392	-33,323	-57,745	-78,093	-89,646	-94,080	-116,424
Transformation Sector	-	-	-	-13,959	-15,095	-18,114	-18,257	-21,510
Power Generation	-	-2,252	-10,048	-13,956	-15,092	-18,110	-18,252	-21,503
Final Energy Consumption	75	1,149	2,053	8,499	11,543	16,217	22,378	11,294
Industry	61	1,110	1,821	8,486	11,527	16,217	22,378	11,294
Transport	14	0	-	-	-	-	-	-
Residential	-	-	-	13	16	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	39	233	-	-	-	-	-
Crude Oil								
Primary Energy Supply	30,739	38,632	49,852	49,041	46,672	44,134	48,514	52,198
Indigenous Production	76,731	70,733	68,981	48,137	48,922	46,073	55,318	53,314
Import	4,387	6,085	10,660	20,471	15,768	15,483	12,839	18,284
Export	-50,379	-38,186	-29,789	-19,567	-18,019	-17,633	-20,619	-20,376
Transformation Sector	-	-	-	-44,642	-44,402	-43,789	-47,601	-50,975
Petroleum Refineries	-25,704	-36,471	-49,298	-44,642	-44,402	-43,789	-47,601	-50,975
Petroleum Products								
Primary Energy Supply	-4,990	-8,202	1,171	13,873	11,634	15,292	21,705	19,973
Import	2,955	3,251	10,471	21,235	17,462	21,743	20,618	18,856
Export	-7,637	-11,125	-8,942	-7,363	-5,829	-6,284	-	-
Transformation Sector	-	-	-	37,089	37,131	35,908	34,958	32,783
Power Generation	-1,690	-3,764	-4,501	-9,259	-8,709	-10,278	-9,692	-8,188
Petroleum Refineries	25,865	38,041	48,490	46,348	45,840	46,186	44,650	40,971
Final Energy Consumption	18,052	24,681	44,061	45,952	43,021	51,733	54,276	50,616
Industry	4,751	6,317	10,948	10,444	8,717	7,613	6,288	6,347
Transport	6,221	11,203	21,432	25,852	25,507	26,501	26,001	30,711
Residential	-	-	-	9,656	8,653	7,932	7,495	6,665
Commerce & Public Services	-	-	-	-	143	1,259	1,060	983
Others	7,080	7,161	11,681	0	0	8,428	13,432	5,910
Natural Gas								
Primary Energy Supply	4,827	16,889	34,048	37,710	38,352	32,975	38,731	44,842
Indigenous Production	14,828	41,040	65,798	68,663	67,942	63,537	72,604	77,022
Import	-	-	-	-	-	-	-	-
Export	-10,002	-24,151	-31,750	-30,953	-29,590	-30,563	-33,873	-32,180
Transformation Sector	-	-	-	-11,300	-11,659	-11,707	-12,689	-15,079
Power Generation	-	-249	-10,468	-3,423	-3,752	-4,793	-5,961	-8,674
Final Energy Consumption	2,326	5,504	8,089	11,093	10,657	9,912	12,589	18,688
Industry	1,664	2,862	4,407	6,523	6,244	7,658	9,452	15,509
Transport	-	1	20	5	5	6	17	8
Residential	-	-	-	16	16	17	18	18
Commerce & Public Services	-	-	-	24	26	35	50	102
Others	662	2,641	3,662	4,526	4,366	2,197	3,051	3,051
Electricity								
Power Generation	855	3,245	10,561	10,952	11,447	12,250	12,852	13,074
Thermal	530	1,369	5,351	9,459	10,053	10,675	11,146	11,307
Hydro	325	935	862	925	821	971	991	954
Nuclear	-	-	-	-	-	-	-	-
Others	-	941	4,348	568	573	604	715	812
Final Energy Consumption	624	2,624	9,365	9,205	9,684	10,435	11,103	11,584
Industry	280	1,478	5,482	3,651	3,751	3,939	4,125	3,974
Transport	-	1	-	-	-	7	7	10
Residential	-	-	-	3,542	3,763	4,070	4,316	4,725
Commerce & Public Services	-	-	-	1,655	1,791	2,418	2,654	2,875
Others	344	1,145	3,883	357	379	-	0	-

Major Economic Indicators of Indonesia

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	146.58	177.39	205.28	219.21	221.95	224.67	227.35	229.96
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	58.82	109.15	165.02	207.89	219.33	233.24	247.27	258.58
Real Term (Billions of 2000 Price and 2000 PPP)	176.85	328.17	496.14	625.04	659.42	701.26	743.43	777.45
Nominal (Billions of Current USD)	78.01	114.43	165.02	285.87	364.57	432.22	510.23	539.36
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	401	615	804	948	988	1,038	1,088	1,124
Real Term (2000 Price and 2000 PPP)	1,206	1,850	2,417	2,851	2,971	3,121	3,270	3,381
Nominal (Current USD)	532	645	804	1,304	1,643	1,924	2,244	2,345
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	48,913	210,866	1,389,770	2,774,281	3,339,217	3,950,893	4,948,688	5,603,871
Household Final Consumption Expenditure, etc.	25,594	119,802	856,798	1,785,596	2,092,656	2,510,504	2,999,957	3,290,843
General Government Final Consumption Expenditure	5,148	18,649	90,780	224,981	288,080	329,760	416,867	539,759
Gross Fixed Capital Formation	10,550	59,758	275,882	655,854	805,786	985,627	1,370,634	1,743,728
Stock Change	1,223	4,911	33,283	39,975	42,382	-1,053	5,822	-5,492
Exports of Goods and Services	16,718	53,409	569,490	945,122	1,036,316	1,162,974	1,475,119	1,354,221
Imports of Goods and Services	9,886	50,046	423,318	830,083	855,588	1,003,271	1,422,902	1,197,193
Real GDP & its Components (Billions of 2000 IDR) *1								
Gross Domestic Product	495,380	919,241	1,389,769	1,750,815	1,847,127	1,964,327	2,082,456	2,177,742
Household Final Consumption Expenditure, etc.	226,405	480,808	856,798	1,043,805	1,076,928	1,130,847	1,191,191	1,249,011
General Government Final Consumption Expenditure	50,448	84,219	90,780	134,626	147,564	153,310	169,297	195,908
Gross Fixed Capital Formation	99,861	214,557	275,881	393,501	403,719	441,362	493,716	510,118
Stock Change	-5,472	-17,177	33,283	33,508	29,027	-243	2,170	-474
Exports of Goods and Services	275,262	301,744	569,490	793,613	868,256	942,431	1,032,278	932,124
Imports of Goods and Services	167,806	255,995	423,318	639,702	694,605	757,566	833,342	708,587
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	25.1	19.4	15.6	14.5	14.2	13.8	13.7	13.6
Industry	37.4	41.0	45.9	44.1	43.7	43.0	42.1	41.6
Services, etc.	36.5	39.1	38.5	39.4	39.1	40.3	42.7	41.7
Manufacturing Production Index (2005=100)	21.1	49.0	84.1	100.0	98.4	103.9	107.0	108.3
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.909	25.675	65.403	86.996	103.527	118.013	139.606	119.481
Imports, c.i.f.	10.834	21.837	43.595	75.533	80.346	92.777	126.950	91.749
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	5.352	25.042	17.534	29.660	32.754	22.916	30.147
Current Account	N.A.	-2.988	7.992	0.278	10.860	10.493	0.126	10.192
Overall Balance	0.000	2.251	3.926	-2.111	14.958	12.706	-1.918	12.506
Foreign Exchange Rate (IDR/USD) *1	626.99	1,842.81	8,421.78	9,704.74	9,159.32	9,141.00	9,698.96	10,389.94
Purchasing Power Parity (IDR/International Dollar) *1	513.90	789.29	2,801.14	3,934.26	4,347.11	4,698.35	5,432.76	5,829.01
Price Indices								
GDP Deflator (2000=100) *3	9.9	22.9	100.0	158.5	180.8	201.1	237.6	257.3
Wholesale Price Index (2005=100) *2	6.7	16.7	66.2	100.0	113.7	130.4	158.5	165.8
Consumer Price Index (2005=100) *2	8.1	18.4	64.1	100.0	113.1	120.4	132.1	138.5
Growth Rate (%) *3								
Real GDP	8.72	9.00	4.92	5.69	5.50	6.35	6.01	4.58
Population	2.17	1.68	1.37	1.28	1.25	1.22	1.19	1.15
Price								
Wholesale Price Index	26.8	10.0	12.5	15.3	13.7	14.7	21.5	4.6
Consumer Price Index	18.0	7.8	3.7	10.5	13.1	6.4	9.8	4.8

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"

: 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					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	654	-	798	-	-	-	-	-	-
Import	98,216	219	182,823	39,163	697	18,114	752	309	189
Export	-	-580	-	-18,374	-797	-2	-2,387	-290	-10,277
International Marine Bunkers	-	-	-	-4,980	-	-	-	-	-4
International Aviation Bunkers	-	-	-	-5,254	-	-	-5,254	-	-
Stock Changes	150	-	2,189	1,903	32	383	36	198	205
Total Primary Energy Supply	99,019	-360	185,809	12,458	-68	18,495	-6,853	217	-9,887
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-86,623	24,377	-185,709	168,115	44,824	14,873	11,268	16,871	36,980
Main Activity Producer	-43,966	-3,368	-3,352	-8,474	-	-	-	-3	-165
Autoproducers	-8,939	-2,513	-	-8,537	-	-1,389	-	-22	-
Gas Processing	-	-	-	-875	-	-	-	-	-
Petroleum Refineries	-	-	-187,486	191,842	44,824	21,468	11,268	16,896	37,145
Coal Transformation	-33,717	30,257	-	-636	-	-	-	-	-
Other Transformation	-	-	5,129	-5,205	-	-5,205	-	-	-
Loss & Own Use	-299	-2,711	-	-11,703	-	-41	-	-65	-35
Discrepancy	448	-2,789	-100	-3,159	458	-2,186	30	-305	300
Total Final Energy Consumption	12,546	18,517	-	165,711	45,214	31,141	4,445	16,718	27,358
Industry Sector	12,546	17,972	-	54,338	97	31,141	-	3,138	3,177
Iron and Steel	6,340	17,129	-	1,452	-	-	-	61	27
Chemical & Petrochemical	1,312	54	-	35,911	-	31,064	-	251	238
Non-metallic Minerals	4,035	288	-	1,758	-	-	-	26	7
Other Industries	860	501	-	15,217	97	77	-	2,801	2,905
Transport Sector	-	-	-	76,662	45,117	-	4,445	-	22,729
Domestic Air Transport	-	-	-	4,446	2	-	4,445	-	-
Road	-	-	-	68,628	45,115	-	-	-	22,384
Rail	-	-	-	189	-	-	-	-	189
Inland Waterways	-	-	-	3,399	-	-	-	-	155
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	545	-	30,567	-	-	-	13,580	1,453
Residential	-	14	-	16,097	-	-	-	10,288	-
Commerce and Public Services	-	531	-	9,099	-	-	-	1,572	116
Agriculture	-	-	-	3,668	-	-	-	1,626	737
Non-specified Others	-	-	-	1,703	-	-	-	93	600
Non-energy	-	-	-	4,144	-	-	-	-	-
2008									
Indigenous Production	627	-	855	-	-	-	-	-	-
Import	117,014	1,106	210,089	44,300	450	18,633	201	222	198
Export	-	-650	-	-19,135	-594	-27	-3,025	-444	-10,673
International Marine Bunkers	-	-	-	-5,511	-	-	-	-	-13
International Aviation Bunkers	-	-	-	-6,147	-	-	-6,147	-	-
Stock Changes	-1,103	-	-1,863	-185	71	-165	-55	706	-329
Total Primary Energy Supply	116,538	456	209,081	13,322	-73	18,441	-9,026	485	-10,817
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-98,905	28,804	-208,548	175,425	44,645	15,713	13,796	17,107	39,583
Main Activity Producer	-50,018	-3,933	-9,439	-14,605	-	-	-	-2	-127
Autoproducers	-9,298	-2,987	-	-9,415	-	-1,246	-	-39	-
Gas Processing	-	-	-	-946	-	-	-	-	-
Petroleum Refineries	-	-	-204,303	206,379	44,645	22,242	13,796	17,148	39,710
Coal Transformation	-39,589	35,724	-	-706	-	-	-	-	-
Other Transformation	-	-	5,194	-5,282	-	-5,282	-	-	-
Loss & Own Use	-299	-3,112	-	-11,997	-1	-59	-	-62	-35
Discrepancy	-1,555	-5,122	-533	-949	435	-1,250	28	-105	378
Total Final Energy Consumption	15,779	21,027	-	175,801	45,006	32,845	4,798	17,424	29,108
Industry Sector	15,779	20,339	-	59,713	96	32,845	-	3,263	3,370
Iron and Steel	8,840	19,267	-	1,903	-	-	-	87	39
Chemical & Petrochemical	1,546	81	-	37,904	-	32,771	-	279	182
Non-metallic Minerals	4,425	398	-	1,997	-	-	-	44	3
Other Industries	968	592	-	17,908	96	73	-	2,853	3,146
Transport Sector	-	-	-	78,689	44,910	-	4,798	-	24,141
Domestic Air Transport	-	-	-	4,800	2	-	4,798	-	-
Road	-	-	-	69,864	44,908	-	-	-	23,796
Rail	-	-	-	189	-	-	-	-	189
Inland Waterways	-	-	-	3,836	-	-	-	-	155
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	688	-	32,923	-	-	-	14,161	1,597
Residential	-	17	-	16,877	-	-	-	10,759	-
Commerce and Public Services	-	671	-	10,135	-	-	-	1,614	175
Agriculture	-	-	-	4,000	-	-	-	1,690	784
Non-specified Others	-	-	-	1,911	-	-	-	97	639
Non-energy	-	-	-	4,476	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,326	7,089	71,574	3,260	7,319	-	-	94,020
2,430	13,649	-	-	3,024	75,778	-	-	-	-	-	-	396,200
-3,667	-202	-	-	-753	-	-	-	-	-	-	-	-18,954
-4,957	-	-	-	-19	-	-	-	-	-	-	-	-4,980
-	-	-	-	-	-	-	-	-	-	-	-	-5,254
434	557	-	-	58	15	-	-	-	-	-	-	4,256
-5,760	14,004	-	-	2,309	79,120	7,089	71,574	3,260	7,319	-	-	465,288
-	-	-	-	-	-	-	-	-	-	-	-	-
25,856	3,824	7,481	-	6,139	-51,237	-7,089	-71,574	-2,805	-7,905	93,972	809	-125,669
-7,788	-518	-	-	-	-49,089	-6,538	-71,574	-2,436	-1,351	78,168	809	-111,171
-5,699	-96	-1,188	-	-142	-3,119	-551	-	-369	-6,555	15,804	-	-14,779
-	-875	-0	-	-	971	-	-	-	-	-	-	96
39,343	5,312	8,670	-	6,917	-	-	-	-	-	-	-	4,357
-	-	-	-	-636	-	-	-	-	-	-	-	-4,095
-	-	-	-	-	-	-	-	-	-	-	-	-76
-1,604	-739	-7,492	-	-1,727	-3,396	-	-	-	-	-10,925	-	-29,034
-1,130	-215	10	-	-120	2,902	0	-	0	2,717	-750	-77	-807
17,361	16,873	-	-	6,601	27,389	-	-	455	2,131	82,297	732	309,778
6,978	7,350	-	-	2,457	13,018	-	-	-	2,109	32,607	-	132,590
715	335	-	-	314	1,464	-	-	-	-	5,977	-	32,361
715	3,290	-	-	354	2,859	-	-	-	-	5,018	-	45,154
1,034	44	-	-	647	696	-	-	-	-	1,582	-	8,359
4,514	3,681	-	-	1,142	7,998	-	-	-	2,109	20,030	-	46,715
3,243	1,129	-	-	-	-	-	-	-	-	1,802	-	78,464
-	-	-	-	-	-	-	-	-	-	-	-	4,446
-	1,129	-	-	-	-	-	-	-	-	-	-	68,628
-	-	-	-	-	-	-	-	-	-	1,802	-	1,991
3,243	-	-	-	-	-	-	-	-	-	-	-	3,399
-	-	-	-	-	-	-	-	-	-	-	-	-
7,140	8,395	-	-	-	14,371	-	-	455	22	47,889	732	94,581
-	5,809	-	-	-	8,388	-	-	438	22	24,326	31	49,317
4,825	2,586	-	-	-	5,983	-	-	17	-	23,268	627	39,525
1,305	-	-	-	-	-	-	-	-	-	294	74	4,036
1,010	-	-	-	-	-	-	-	-	-	-	-	1,703
-	-	-	-	4,144	-	-	-	-	-	-	-	4,144
-	-	-	-	-	3,482	7,017	65,605	3,215	8,163	-	-	88,964
5,244	15,967	-	-	3,385	81,307	-	-	-	-	-	-	453,816
-3,436	-166	-	-	-770	-	-	-	-	-	-	-	-19,785
-5,486	-	-	-	-12	-	-	-	-	-	-	-	-5,511
-	-	-	-	-	-	-	-	-	-	-	-	-6,147
43	-405	-	-	-52	-10	-	-	-	-	-	-	-3,161
-3,635	15,396	-	-	2,551	84,779	7,017	65,605	3,215	8,163	-	-	508,175
-	-	-	-	-	-	-	-	-	-	-	-	-
26,590	3,666	7,523	-	6,803	-53,656	-7,017	-65,605	-2,721	-8,569	101,359	831	-138,601
-13,835	-640	-	-	-	-51,332	-6,376	-65,605	-2,360	-1,361	84,774	831	-119,423
-6,803	-81	-1,094	-	-152	-3,386	-641	-	-361	-7,208	16,585	-	-16,711
-	-946	-0	-	-	1,062	-	-	-	-	-	-	116
47,227	5,333	8,617	-	7,661	-	-	-	-	-	-	-	2,076
-	-	-	-	-706	-	-	-	-	-	-	-	-4,570
-	-	-	-	-	-	-	-	-	-	-	-	-88
-1,796	-673	-7,523	-	-1,848	-3,502	-	-	-	-	-11,734	-	-30,643
-118	-93	0	-	-223	1,762	-	-	-	3,032	-620	-77	-4,061
21,042	18,296	-	-	7,283	29,384	-	-	494	2,626	89,006	754	334,870
9,038	8,295	-	-	2,807	14,644	-	-	-	2,604	38,428	-	151,507
974	398	-	-	407	1,788	-	-	-	-	7,464	-	39,263
940	3,325	-	-	407	3,126	-	-	-	-	5,583	-	48,240
1,268	80	-	-	603	747	-	-	-	-	1,877	-	9,445
5,856	4,493	-	-	1,391	8,984	-	-	-	2,604	23,504	-	54,560
3,681	1,160	-	-	-	-	-	-	-	-	1,846	-	80,535
-	-	-	-	-	-	-	-	-	-	-	-	4,800
-	1,160	-	-	-	-	-	-	-	-	-	-	69,864
-	-	-	-	-	-	-	-	-	-	1,846	-	2,036
3,681	-	-	-	-	-	-	-	-	-	-	-	3,836
-	-	-	-	-	-	-	-	-	-	-	-	-
8,323	8,841	-	-	-	14,739	-	-	494	22	48,732	754	98,352
-	6,118	-	-	-	8,567	-	-	474	22	24,784	31	50,772
5,623	2,723	-	-	-	6,173	-	-	20	-	23,618	648	41,265
1,526	-	-	-	-	-	-	-	-	-	329	74	4,404
1,174	-	-	-	-	-	-	-	-	-	-	-	1,911
-	-	-	-	4,476	-	-	-	-	-	-	-	4,476

Major Energy Indicators of Japan

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	351,745	435,096	515,624	523,451	520,326	517,851	508,175	465,288
Indigenous Production	48,709	75,441	106,958	99,704	103,793	96,641	88,964	94,020
Import	319,945	376,440	426,210	442,851	443,120	445,398	453,816	396,200
Export	-16,707	-5,033	-5,837	-9,705	-10,487	-14,675	-19,785	-18,954
Final Energy Consumption	251,799	304,760	359,884	355,004	352,607	345,917	334,870	309,778
Industry	131,376	140,882	160,674	155,667	156,177	156,402	151,507	132,590
Transport	51,466	70,087	87,140	86,475	85,756	83,995	80,535	78,464
Residential	29,224	40,322	50,357	52,964	53,074	51,188	50,772	49,317
Commerce & Public Services	24,982	33,975	45,060	45,987	44,835	42,386	41,265	39,525
Others	14,751	19,494	16,653	13,912	12,765	11,945	10,791	9,883
Coal, Coal Products								
Primary Energy Supply	63,565	75,444	91,814	112,739	108,493	114,565	116,994	98,659
Indigenous Production	12,522	5,933	1,720	567	685	722	627	654
Import	51,439	70,045	91,754	112,761	109,535	115,207	118,120	98,435
Export	-1,465	-1,039	-1,489	-1,099	-1,321	-1,073	-650	-580
Transformation Sector	-	-30,434	-50,261	-68,576	-67,402	-68,932	-70,100	-62,246
Power Generation	-10,689	-24,918	-46,595	-65,071	-63,256	-65,022	-66,236	-58,786
Final Energy Consumption	37,439	39,591	39,747	36,148	36,562	37,286	36,806	31,063
Industry	36,446	38,825	38,843	35,218	35,579	36,424	36,118	30,518
Transport	-	-	-	-	-	-	-	-
Residential	293	83	27	19	19	17	17	14
Commerce & Public Services	699	683	877	911	964	845	671	531
Others	1	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	219,555	200,318	218,989	214,674	210,085	209,668	209,081	185,809
Indigenous Production	426	555	644	794	779	833	855	798
Import	219,405	200,268	217,624	212,130	210,313	206,464	210,089	182,823
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-199,036	-219,003	-214,624	-209,265	-209,104	-208,548	-185,709
Petroleum Refineries	-202,533	-182,903	-216,297	-214,312	-208,280	-207,031	-204,303	-187,486
Petroleum Products								
Primary Energy Supply	13,248	48,704	37,467	29,636	26,440	20,116	13,322	12,458
Import	29,468	64,442	54,073	49,890	50,268	45,290	44,300	39,163
Export	-15,242	-3,994	-4,348	-8,606	-9,166	-13,603	-19,135	-18,374
Transformation Sector	-	147,155	187,437	185,830	182,823	180,029	175,425	168,115
Power Generation	-42,852	-33,424	-24,508	-24,325	-22,031	-22,952	-24,020	-17,011
Petroleum Refineries	203,921	186,361	220,333	218,038	212,222	210,318	206,379	191,842
Final Energy Consumption	157,936	183,223	211,551	203,598	197,037	187,862	175,801	165,711
Industry	65,073	63,427	74,664	70,922	68,107	64,919	59,713	54,338
Transport	50,157	68,391	85,265	84,623	83,905	82,166	78,689	76,662
Residential	12,949	16,289	18,647	19,939	19,309	17,934	16,877	16,097
Commerce & Public Services	15,131	15,921	16,741	14,613	13,353	11,311	10,135	9,099
Others	14,626	19,194	16,235	13,500	12,363	11,531	10,387	9,515
Natural Gas								
Primary Energy Supply	21,748	43,525	64,918	70,914	76,040	81,865	84,779	79,120
Indigenous Production	2,115	1,847	2,159	2,855	3,061	3,448	3,482	3,326
Import	19,633	41,684	62,759	68,070	73,004	78,437	81,307	75,778
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-29,102	-42,973	-46,345	-46,816	-52,886	-53,656	-51,237
Power Generation	-15,892	-32,528	-45,995	-48,139	-48,112	-53,983	-54,718	-52,208
Final Energy Consumption	9,228	13,574	21,610	24,803	27,342	28,227	29,384	27,389
Industry	2,180	3,840	8,359	10,121	12,174	13,740	14,644	13,018
Transport	-	-	-	-	-	-	-	-
Residential	5,084	6,646	8,159	8,513	8,798	8,402	8,567	8,388
Commerce & Public Services	1,963	3,088	5,091	6,169	6,370	6,086	6,173	5,983
Others	1	-	-	-	-	-	-	-
Electricity								
Power Generation	48,677	72,442	93,427	99,064	99,974	101,388	101,359	93,972
Thermal	33,036	43,118	51,007	56,990	56,138	60,729	63,463	54,593
Hydro	7,828	8,224	8,104	7,488	8,398	7,313	7,017	7,089
Nuclear	7,174	16,902	27,721	25,455	26,433	24,237	21,868	23,858
Others	638	4,198	6,595	9,131	9,005	9,110	9,011	8,431
Final Energy Consumption	44,024	64,052	82,913	86,767	87,818	88,606	89,006	82,297
Industry	25,216	31,971	36,332	37,114	37,818	38,710	38,428	32,607
Transport	1,309	1,696	1,875	1,851	1,851	1,829	1,846	1,802
Residential	10,313	16,074	22,665	23,882	24,367	24,281	24,784	24,326
Commerce & Public Services	7,082	14,041	21,711	23,595	23,463	23,453	23,618	23,268
Others	104	270	328	325	319	332	329	294

Major Economic Indicators of Japan

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	116.78	123.54	126.87	127.77	127.76	127.77	127.70	127.56
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	2,638.15	4,150.26	4,667.45	4,979.55	5,081.11	5,201.16	5,140.56	4,817.34
Real Term (Billions of 2000 Price and 2000 PPP)	1,837.13	2,890.12	3,250.28	3,467.62	3,538.34	3,621.95	3,579.74	3,354.66
Nominal (Billions of Current USD)	1,071.00	3,058.04	4,667.45	4,552.19	4,362.58	4,377.96	4,879.84	5,032.98
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	22,590	33,595	36,789	38,972	39,772	40,707	40,254	37,765
Real Term (2000 Price and 2000 PPP)	15,731	23,395	25,619	27,139	27,696	28,347	28,032	26,299
Nominal (Current USD)	9,171	24,754	36,789	35,627	34,148	34,264	38,212	39,456
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	242,839	442,781	502,990	501,734	507,365	515,520	504,378	470,937
Household Final Consumption Expenditure, etc.	132,247	234,704	282,772	285,936	289,594	292,523	291,751	282,646
General Government Final Consumption Expenditure	34,304	59,025	84,942	90,602	90,703	92,218	93,375	93,611
Gross Fixed Capital Formation	77,062	142,328	126,634	116,885	118,467	118,237	117,753	97,944
Stock Change	1,446	2,551	1,326	1,356	2,253	3,911	1,498	-1,341
Exports of Goods and Services	32,817	45,863	55,256	71,913	81,756	90,830	88,494	59,524
Imports of Goods and Services	35,036	41,690	47,940	64,957	75,408	82,198	87,758	58,088
Real GDP & its Components (Billions of 2000 JPY) *1								
Gross Domestic Product	284,302	447,254	502,990	536,624	547,568	560,506	553,975	519,143
Household Final Consumption Expenditure, etc.	167,218	247,289	282,772	300,411	304,984	309,875	307,780	304,801
General Government Final Consumption Expenditure	43,243	62,732	84,942	94,843	95,203	96,655	96,907	98,324
Gross Fixed Capital Formation	77,174	134,442	126,634	124,158	124,739	123,302	120,125	103,288
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	20,273	35,232	55,256	73,584	80,700	87,496	88,878	67,681
Imports of Goods and Services	18,547	33,457	47,940	57,863	60,307	61,293	61,765	51,421
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	3.3	2.3	1.8	1.6	1.5	1.5	1.7	N.A.
Industry	38.9	36.8	32.4	31.8	31.9	31.7	31.2	N.A.
Services, etc.	57.7	60.8	65.7	66.6	66.5	66.6	67.0	N.A.
Industrial Production Index (2005=100) *2	67.2	99.1	98.4	100.0	104.4	107.3	103.8	81.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	130.441	287.581	479.249	594.941	646.725	714.327	782.047	580.719
Imports, c.i.f.	141.296	235.368	379.511	515.866	579.064	622.243	762.534	551.960
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.130	69.283	116.716	93.958	81.303	104.752	38.131	43.632
Current Account	-10.750	44.078	119.660	165.783	170.517	210.490	156.634	142.194
Overall Balance	5.026	-9.090	48.955	22.325	31.982	36.524	30.880	26.920
Foreign Exchange Rate (JPY/USD) *1	226.74	144.79	107.77	110.22	116.30	117.75	103.36	93.57
Purchasing Power Parity (JPY/International Dollar) *1	247.35	189.40	154.75	129.55	124.62	120.16	116.85	115.35
Price Indices								
GDP Deflator (2000=100) *3	85.4	99.0	100.0	93.5	92.7	92.0	91.0	90.7
Wholesale Price Index (2005=100) *2	116.1	110.8	102.4	100.0	102.2	104.0	108.7	103.0
Consumer Price Index (2005=100) *2	76.8	94.1	102.2	100.0	100.2	100.3	101.7	100.3
Growth Rate (%) *3								
Real GDP	2.82	5.57	2.86	1.93	2.04	2.36	-1.17	-6.29
Population	0.79	0.34	0.17	0.01	-0.01	0.01	-0.05	-0.11
Price								
Wholesale Price Index	14.9	1.5	0.0	1.7	2.2	1.7	4.6	-5.3
Consumer Price Index	7.8	3.1	-0.7	-0.3	0.2	0.1	1.4	-1.4

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"

: JPY means Yen, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Price of Japan in 2009

Currency Exchange Rate

	Local currency / US Dollar	93.07
Currency Exchange Rate		
Local Currency Unit		Yen

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES			WHOLESALE PRICES			CONSUMER PRICES		
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	Yen/ton	13,522	Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	Yen/ton	9,053	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	40,388	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	Yen/ton	54,530	LPG	Yen/kg	122.1	LPG	Yen/m3	701.60
Naphtha	Yen/kL	39,485	Naphtha	Yen/kL	42,680	Naphtha		
Motor Gasoline			Motor Gasoline	Yen/kL	110,955	Motor Gasoline	Yen/L	125.00
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	56,166	Other Kerosene	Yen/L	75.17
Gas/Diesel Oil			Gas/Diesel Oil	Yen/kL	88,266	Gas/Diesel Oil	Yen/L	105.00
Fuel Oil	Yen/kL	40,169	Fuel Oil	Yen/kL	39,961	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	42,693	Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity	Yen/kWh	16.82	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					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	1,159	-	692	2,726	815	945	-	-	-
Import	62,744	179	117,637	31,641	-	21,923	-	10	319
Export	-	-	-325	-44,005	-5,001	-3,225	-9,431	-722	-17,106
International Marine Bunkers	-	-	-	-8,398	-	-	-	-	-881
International Aviation Bunkers	-	-	-	-3,689	-	-	-3,689	-	-
Stock Changes	762	-	-2,998	35	-167	205	28	13	-259
Total Primary Energy Supply	64,665	179	115,006	-21,691	-4,353	19,848	-13,093	-699	-17,927
Transfers	-	-	79	-81	-36	-	52	-69	-15
Total Transformation Sector	-61,173	5,435	-125,214	116,293	12,757	19,351	13,759	4,662	36,358
Main Activity Producer	-43,601	-	-	-3,572	-	-288	-	-88	-20
Autoproducers	-2,027	-2,306	-	-373	-	-	-	-6	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-125,448	120,283	12,757	19,639	13,759	4,757	36,379
Coal Transformation	-15,545	7,741	-	-	-	-	-	-	-
Other Transformation	-	-	234	-44	-	-	-	-	-
Loss & Own Use	-	-1,852	-24	-5,321	-	-	-	-7	-19
Discrepancy	518	-1	10,153	-9,260	-156	-7,662	12	-147	-119
Total Final Energy Consumption	4,010	3,762	-	79,941	8,212	31,537	730	3,741	18,277
Industry Sector	4,010	2,869	-	5,831	-	-	-	304	1,118
Iron and Steel	743	2,310	-	259	-	-	-	1	3
Chemical & Petrochemical	13	-	-	1,169	-	-	-	-	69
Non-metallic Minerals	2,620	-	-	826	-	-	-	10	88
Other Industries	634	559	-	3,577	-	-	-	293	958
Transport Sector	-	-	-	28,220	8,212	-	268	6	14,414
Domestic Air Transport	-	-	-	268	-	-	268	-	-
Road	-	-	-	26,846	8,212	-	-	-	13,826
Rail	-	-	-	190	-	-	-	-	190
Inland Waterways	-	-	-	821	-	-	-	-	309
Pipeline Transport	-	-	-	1	-	-	-	-	1
Non-specified Transport	-	-	-	94	-	-	-	6	88
Other Sector	-	893	-	9,261	-	-	462	3,404	2,745
Residential	-	893	-	2,932	-	-	-	1,653	427
Commerce and Public Services	-	-	-	3,396	-	-	1	1,461	289
Agriculture	-	-	-	1,145	-	-	-	273	778
Non-specified Others	-	-	-	1,789	-	-	461	17	1,251
Non-energy	-	-	-	36,629	-	31,537	-	27	-
2008									
Indigenous Production	1,276	-	536	2,583	745	842	-	-	1
Import	61,017	490	118,857	26,340	-	18,643	34	36	158
Export	-	-	-243	-44,712	-3,861	-2,781	-10,305	-319	-17,859
International Marine Bunkers	-	-	-	-9,132	-	-	-	-	-880
International Aviation Bunkers	-	-	-	-3,806	-	-	-3,806	-	-
Stock Changes	-15	-	901	878	179	-47	141	167	605
Total Primary Energy Supply	62,277	490	120,052	-27,849	-2,937	16,656	-13,936	-116	-17,975
Transfers	-	-	121	-112	-43	1	163	-274	-49
Total Transformation Sector	-57,323	5,925	-128,625	120,634	10,853	20,746	14,531	4,131	36,627
Main Activity Producer	-38,504	-	-	-2,734	-	-345	-	-83	-27
Autoproducers	-1,676	-2,782	-	-365	-	-	-	-4	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-128,789	123,787	10,853	21,091	14,531	4,218	36,654
Coal Transformation	-17,142	8,707	-	-	-	-	-	-	-
Other Transformation	-	-	164	-54	-	-	-	-	-
Loss & Own Use	-	-2,005	-33	-5,598	-	-	-	-6	-18
Discrepancy	67	0	8,485	-9,139	-14	-8,014	-79	-29	-125
Total Final Energy Consumption	5,021	4,410	-	77,935	7,860	29,390	679	3,706	18,459
Industry Sector	5,021	3,357	-	6,463	-	-	-	322	1,177
Iron and Steel	1,010	2,423	-	421	-	-	-	2	3
Chemical & Petrochemical	78	-	-	1,262	-	-	-	-	77
Non-metallic Minerals	3,081	-	-	914	-	-	-	10	93
Other Industries	852	934	-	3,867	-	-	-	309	1,004
Transport Sector	-	-	-	27,946	7,860	-	275	8	14,593
Domestic Air Transport	-	-	-	275	-	-	275	-	-
Road	-	-	-	26,479	7,860	-	-	-	13,940
Rail	-	-	-	215	-	-	-	-	215
Inland Waterways	-	-	-	874	-	-	-	-	343
Pipeline Transport	-	-	-	1	-	-	-	-	1
Non-specified Transport	-	-	-	103	-	-	-	8	95
Other Sector	-	1,053	-	9,195	-	-	404	3,349	2,689
Residential	-	1,053	-	3,150	-	-	-	1,826	483
Commerce and Public Services	-	-	-	3,310	-	-	1	1,228	317
Agriculture	-	-	-	1,135	-	-	-	281	757
Non-specified Others	-	-	-	1,601	-	-	403	14	1,131
Non-energy	-	-	-	34,330	-	29,390	-	28	-

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Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	545	422	-	-	449	485	38,509	160	2,959	-	-	47,139
3,030	6,305	-	-	53	30,212	-	-	-	21	-	-	242,433
-3,948	-9	-	-	-4,563	-	-	-	-	-	-	-	-44,330
-7,517	-	-	-	-	-	-	-	-	-	-	-	-8,398
-	-	-	-	-	-	-	-	-	-	-	-	-3,689
64	236	-	-	-84	1,053	-	-	-	-	-	-	-1,147
-8,371	7,076	422	-	-4,594	31,713	485	38,509	160	2,980	-	-	232,007
47	-32	-	-	-27	-	-	-	-	-	-	-	-1
15,250	3,448	2,733	-	7,974	-12,170	-485	-38,509	-108	-757	39,087	4,552	-73,049
-3,176	-	-	-	-	-11,987	-485	-38,509	-103	-117	37,033	1,491	-59,850
-367	-	-	-	-	-407	-	-	-5	-491	2,054	3,061	-494
-	-	-	-	-	224	-	-	-	-	-	-	224
18,793	3,448	2,733	-	8,018	-	-	-	-	-	-	-	-5,165
-	-	-	-	-	-	-	-	-	-	-	-	-7,804
-	-	-	-	-44	-	-	-	-	-150	-	-	40
-2,072	-25	-3,155	-	-44	-574	-	-	-	-	-4,214	-117	-12,103
-117	-930	-	-	-141	-846	-	-	-	-0	17	2	583
4,737	9,537	-	-	3,168	18,122	-	-	53	2,223	34,890	4,437	147,438
3,613	696	-	-	99	5,632	-	-	1	1,742	17,142	2,703	39,930
223	32	-	-	-	1,375	-	-	-	112	4,219	14	9,032
1,100	-	-	-	-	1,049	-	-	-	126	3,021	1,495	6,873
598	31	-	-	99	444	-	-	-	588	980	-	5,458
1,692	633	-	-	-	2,764	-	-	1	915	8,922	1,195	18,567
512	4,808	-	-	-	895	-	-	-	-	187	-	29,302
-	-	-	-	-	-	-	-	-	-	-	-	268
-	4,808	-	-	-	895	-	-	-	-	-	-	27,741
-	-	-	-	-	-	-	-	-	-	187	-	377
512	-	-	-	-	-	-	-	-	-	-	-	821
-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	94
613	2,037	-	-	-	11,595	-	-	52	481	17,561	1,734	41,577
181	671	-	-	-	8,267	-	-	23	24	4,961	1,541	18,641
302	1,342	-	-	-	3,324	-	-	29	457	11,814	193	19,212
93	1	-	-	-	4	-	-	-	-	626	-	1,774
37	23	-	-	-	-	-	-	-	-	161	-	1,949
-	1,996	-	-	3,069	-	-	-	-	-	-	-	36,629
-	598	397	-	-	195	478	39,340	106	2,925	-	-	47,439
1,100	6,370	-	-	-	33,347	-	-	-	26	-	-	240,077
-5,396	-36	-	-	-4,156	-	-	-	-	-	-	-	-44,955
-8,252	-	-	-	-	-	-	-	-	-	-	-	-9,132
-	-	-	-	-	-	-	-	-	-	-	-	-3,806
-12	-147	-	-	-8	-1,723	-	-	-	-	-	-	41
-12,560	6,785	397	-	-4,164	31,818	478	39,340	106	2,951	-	-	229,663
129	-	-	-	-40	-	-	-	-	-	-	-	9
20,121	3,392	2,771	-	7,462	-14,088	-478	-39,340	-62	-670	38,393	4,816	-70,819
-2,279	-	-	-	-	-13,839	-478	-39,340	-54	-115	36,151	1,448	-57,467
-361	-	-	-	-	-450	-	-	-8	-451	2,242	3,369	-122
-	-	-	-	-	201	-	-	-	-	-	-	201
22,761	3,392	2,771	-	7,515	-	-	-	-	-	-	-	-5,003
-	-	-	-	-	-	-	-	-	-	-	-	-8,435
-	-	-	-	-54	-	-	-	-	-105	-	-	6
-2,265	-101	-3,168	-	-39	-403	-	-	-	-	-3,918	-82	-12,039
-34	-613	-	-	-232	254	-	-	0	-0	-109	-13	-455
5,392	9,462	-	-	2,987	17,582	-	-	44	2,281	34,365	4,722	146,359
4,136	720	-	-	108	5,472	-	-	1	1,889	17,225	2,996	42,423
365	50	-	-	-	1,323	-	-	-	112	3,809	-	9,098
1,184	-	-	-	-	990	-	-	-	124	2,957	1,867	7,277
665	38	-	-	108	414	-	-	-	629	996	-	6,033
1,921	632	-	-	-	2,745	-	-	1	1,025	9,463	1,129	20,015
531	4,679	-	-	-	715	-	-	-	-	191	-	28,853
-	-	-	-	-	-	-	-	-	-	-	-	275
-	4,679	-	-	-	715	-	-	-	-	-	-	27,194
-	-	-	-	-	-	-	-	-	-	191	-	406
531	-	-	-	-	-	-	-	-	-	-	-	874
-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	103
724	2,029	-	-	-	11,395	-	-	43	392	16,949	1,726	40,753
201	639	-	-	-	8,237	-	-	22	29	4,836	1,469	18,796
387	1,377	-	-	-	3,153	-	-	21	362	11,393	257	18,495
96	1	-	-	-	5	-	-	-	-	564	-	1,704
41	11	-	-	-	-	-	-	-	-	157	-	1,758
-	2,034	-	-	2,879	-	-	-	-	-	-	-	34,330

Major Energy Indicators of Republic of Korea

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	38,321	93,088	188,914	212,369	215,823	224,040	229,663	232,007
Indigenous Production	9,215	22,622	35,193	45,103	45,978	44,543	47,439	47,139
Import	29,598	73,943	206,674	211,301	225,089	229,633	240,077	242,433
Export	-10	-3,795	-40,939	-35,741	-39,132	-39,344	-44,955	-44,330
Final Energy Consumption	35,685	64,908	127,112	140,459	141,680	146,756	146,359	147,438
Industry	15,567	19,262	38,474	39,065	40,234	41,633	42,423	39,930
Transport	4,672	14,573	26,266	29,187	29,228	30,222	28,853	29,302
Residential	-	12,942	15,036	18,411	18,789	18,453	18,796	18,641
Commerce & Public Services	-	8,693	17,211	19,227	17,851	18,356	18,495	19,212
Others	15,446	9,438	30,125	34,570	35,578	38,092	37,792	40,352
Coal, Coal Products								
Primary Energy Supply	12,539	25,558	41,951	49,571	52,714	56,110	62,767	64,844
Indigenous Production	8,139	7,576	3,638	1,261	1,257	1,328	1,276	1,159
Import	4,689	15,725	39,137	46,929	50,407	54,475	61,507	62,923
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-13,163	-31,436	-41,220	-44,184	-45,913	-51,398	-55,738
Power Generation	-734	-5,955	-24,844	-33,117	-36,137	-38,199	-42,963	-47,934
Final Energy Consumption	11,805	11,717	9,071	7,747	8,350	8,600	9,431	7,772
Industry	3,471	3,052	8,505	6,794	7,246	7,599	8,378	6,879
Transport	2	-	-	-	-	-	-	-
Residential	-	8,638	566	954	1,104	1,001	1,053	893
Commerce & Public Services	-	27	-	-	-	-	-	-
Others	8,332	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	22,901	43,239	126,493	118,805	121,842	122,073	120,052	115,006
Indigenous Production	-	-	670	534	571	581	536	692
Import	22,901	42,672	125,809	117,338	122,758	120,849	118,857	117,637
Export	-	-	-99	-3	-2	-27	-243	-325
Transformation Sector	-	-41,836	-131,881	-126,084	-129,061	-130,696	-128,625	-125,214
Petroleum Refineries	-22,534	-41,836	-131,881	-126,096	-129,109	-130,786	-128,789	-125,448
Petroleum Products								
Primary Energy Supply	1,805	6,495	-26,843	-24,309	-29,126	-25,761	-27,849	-21,691
Import	2,008	12,841	24,629	20,897	22,346	24,364	26,340	31,641
Export	-10	-3,795	-40,840	-35,738	-39,130	-39,317	-44,712	-44,005
Transformation Sector	-	39,028	118,679	117,755	120,911	121,280	120,634	116,293
Power Generation	-6,639	-4,512	-6,725	-5,657	-5,276	-5,085	-3,100	-3,945
Petroleum Refineries	24,692	43,540	125,628	123,436	126,202	126,438	123,787	120,283
Final Energy Consumption	21,052	43,661	79,877	79,650	78,651	80,904	77,935	79,941
Industry	10,143	10,883	10,974	7,972	7,855	7,301	6,463	5,831
Transport	4,636	14,486	26,091	28,639	28,558	29,435	27,946	28,220
Residential	-	1,916	3,878	3,181	3,449	3,105	3,150	2,932
Commerce & Public Services	-	7,064	9,277	5,915	3,864	3,644	3,310	3,396
Others	6,274	9,313	29,658	33,943	34,926	37,418	37,065	39,562
Natural Gas								
Primary Energy Supply	-	2,725	17,011	27,415	28,694	31,131	31,818	31,713
Indigenous Production	-	-	-	441	393	317	195	449
Import	-	2,681	17,071	26,112	29,550	29,915	33,347	30,212
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-2,037	-5,757	-11,076	-12,607	-14,312	-14,088	-12,170
Power Generation	-	-2,037	-5,757	-11,076	-12,680	-14,390	-14,289	-12,394
Final Energy Consumption	13	674	10,928	15,986	16,300	16,812	17,582	18,122
Industry	-	73	2,882	4,168	4,366	4,710	5,472	5,632
Transport	-	-	-	323	452	576	715	895
Residential	-	465	6,229	8,374	8,273	8,227	8,237	8,267
Commerce & Public Services	-	136	1,806	3,097	3,183	3,296	3,153	3,324
Others	13	-	11	24	25	4	5	4
Electricity								
Power Generation	3,203	9,062	24,951	33,488	34,746	36,749	38,393	39,087
Thermal	2,730	3,921	14,900	19,932	20,961	23,366	24,173	25,051
Hydro	171	547	482	446	449	434	478	485
Nuclear	302	4,594	9,465	12,750	12,921	12,416	13,113	12,836
Others	-	0	103	359	414	533	628	715
Final Energy Consumption	2,815	8,117	22,628	30,756	31,936	33,642	34,365	34,890
Industry	1,954	4,970	12,934	15,820	16,294	17,245	17,225	17,142
Transport	34	87	175	224	218	211	191	187
Residential	-	1,525	3,191	4,375	4,518	4,661	4,836	4,961
Commerce & Public Services	-	1,409	5,873	9,734	10,279	10,854	11,393	11,814
Others	827	125	456	603	627	670	721	786

Major Economic Indicators of Republic of Korea

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	38.12	42.87	47.01	48.14	48.30	48.46	48.61	48.75
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	128.03	295.60	533.39	664.39	698.80	734.48	751.36	753.76
Real Term (Billions of 2000 Price and 2000 PPP)	194.04	448.02	808.40	1,006.96	1,059.10	1,113.18	1,138.77	1,142.40
Nominal (Billions of Current USD)	63.83	263.78	533.39	844.87	951.77	1,049.24	931.41	834.06
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	3,358	6,895	11,347	13,802	14,469	15,158	15,458	15,463
Real Term (2000 Price and 2000 PPP)	5,090	10,451	17,197	20,918	21,929	22,973	23,428	23,435
Nominal (Current USD)	1,674	6,153	11,347	17,551	19,707	21,653	19,162	17,110
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	38,775	186,691	603,236	865,241	908,744	975,013	1,026,452	1,065,037
Household Final Consumption Expenditure, etc.	24,251	94,968	330,390	465,431	494,918	530,264	546,734	561,675
General Government Final Consumption Expenditure	4,825	22,054	72,101	120,010	131,901	143,262	156,944	170,256
Gross Fixed Capital Formation	12,492	69,234	180,748	249,690	260,651	278,168	300,794	311,594
Stock Change	-158	801	3,616	7,176	8,537	8,750	19,575	-36,051
Exports of Goods and Services	12,433	52,187	232,633	339,757	360,625	408,754	544,111	530,471
Imports of Goods and Services	15,496	54,195	215,398	316,378	348,023	394,026	556,198	488,825
Real GDP & its Components (Billions of 2000 KRW) *1								
Gross Domestic Product	166,733	384,963	694,628	865,241	910,049	956,515	978,499	981,625
Household Final Consumption Expenditure, etc.	107,072	230,340	387,035	465,431	487,439	512,095	505,603	506,482
General Government Final Consumption Expenditure	33,813	61,477	96,290	120,010	127,909	134,807	140,634	147,606
Gross Fixed Capital Formation	42,567	136,791	214,018	249,690	258,199	269,080	263,848	264,627
Stock Change	-2,476	-5,653	5,959	7,176	10,017	8,649	13,159	-24,370
Exports of Goods and Services	17,910	50,066	212,433	339,757	378,375	426,071	454,249	450,462
Imports of Goods and Services	27,306	77,615	217,624	316,378	352,088	393,207	410,568	376,932
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	9.2	5.4	3.6	3.0	2.9	2.9	2.9	3.0
Industry	25.0	30.5	31.6	33.8	34.3	34.6	34.5	34.0
Services, etc.	60.0	55.8	54.2	52.9	52.5	52.5	52.7	53.1
Industrial Production Index (2005=100) *2	10.5	31.8	74.3	100.0	108.4	115.9	119.8	119.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	17.512	65.016	172.267	284.419	325.465	371.489	422.007	363.534
Imports, c.i.f.	22.292	69.844	160.481	261.238	309.383	356.846	435.275	323.085
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.613	-2.461	16.954	32.683	27.905	28.168	5.174	37.862
Current Account	-5.312	-2.014	12.251	14.981	5.385	5.876	3.197	32.791
Overall Balance	0.184	-1.208	23.790	19.864	22.090	15.128	-56.447	68.652
Foreign Exchange Rate (KRW/USD) *1	607.43	707.76	1,130.96	1,024.12	954.79	929.26	1,102.05	1,276.93
Purchasing Power Parity (KRW/International Dollar) *1	427.98	547.09	746.21	788.92	774.75	768.27	785.72	805.22
Price Indices								
GDP Deflator (2005=100) *3	23.3	48.5	86.8	100.0	99.9	101.9	104.9	108.5
Producer Price Index (2005=100)*2	47.0	64.8	91.0	100.0	100.9	102.3	111.1	110.9
Consumer Price Index (2005=100)*2	28.2	51.7	84.9	100.0	102.2	104.8	109.7	112.8
Growth Rate (%) *3								
Real GDP	-1.49	9.16	8.49	3.96	5.18	5.11	2.30	0.32
Population	1.57	1.15	0.84	0.21	0.33	0.33	0.31	0.29
Price								
Producer Price Index	39.0	4.2	2.0	2.1	0.9	1.4	8.6	-0.2
Consumer Price Index	28.7	8.6	2.3	2.8	2.2	2.5	4.7	2.8

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"

: KRW means Won, USD means United States Dollar

: PPP means Purchasing Power Parity

3.10 Malaysia

Energy Balance Table of Malaysia

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2009									
Indigenous Production	1,171	-	32,869	1,902	-	-	-	33	105
Import	7,797	-	5,787	6,180	3,297	-	56	145	1,976
Export	-102	-	-12,378	-7,825	-	-	-781	-590	-1,414
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	164	-	41	-	-	-	-	-	-
Total Primary Energy Supply	9,030	-	26,319	258	3,297	-	-725	-411	667
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,698	-	-26,363	17,547	4,049	-	3,082	555	8,933
Main Activity Producer	-7,698	-	-	-589	-	-	-	-	-384
Autoproducers	-	-	-	-92	-	-	-	-	-92
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-26,505	18,228	4,049	-	3,082	555	9,409
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	142	-	-	-	-	-	-
Loss & Own Use	-	-	-	-2,868	-	-	-	-	-
Discrepancy	47	-	43	7,820	1,414	-	-246	-115	-970
Total Final Energy Consumption	1,378	-	-	22,757	8,760	-	2,112	29	8,630
Industry Sector	1,378	-	-	4,433	98	-	-	15	3,061
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	1,378	-	-	-	-	-	-	-	-
Other Industries	-	-	-	4,433	98	-	-	15	3,061
Transport Sector	-	-	-	15,853	8,661	-	2,112	-	5,060
Domestic Air Transport	-	-	-	2,112	-	-	2,112	-	-
Road	-	-	-	8,661	8,661	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	5,081	-	-	-	-	5,060
Other Sector	-	-	-	597	1	-	-	14	509
Residential	-	-	-	14	-	-	-	14	-
Commerce and Public Services	-	-	-	394	-	-	-	-	328
Agriculture	-	-	-	189	1	-	-	-	181
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	1,873	-	-	-	-	-
2008									
Indigenous Production	676	-	35,513	2,356	-	-	-	38	113
Import	8,310	-	8,565	7,370	3,509	-	25	98	1,502
Export	-176	-	-14,994	-9,517	-176	-	-980	-149	-1,150
International Marine Bunkers	-	-	-	-66	-	-	-	-	-16
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-695	-	144	-115	42	-	-19	-18	-98
Total Primary Energy Supply	8,114	-	29,229	28	3,375	-	-974	-31	350
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-6,894	-	-26,740	25,917	5,063	-	3,136	241	8,996
Main Activity Producer	-6,894	-	-	-479	-	-	-	-	-298
Autoproducers	-	-	-	-63	-	-	-	-	-63
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-26,740	26,459	5,063	-	3,136	241	9,357
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-993	-	-	-	-	-
Discrepancy	244	-	-2,488	-519	398	-	-52	-136	-186
Total Final Energy Consumption	1,464	-	-	24,433	8,835	-	2,111	73	9,160
Industry Sector	1,464	-	-	5,262	49	-	-	25	3,387
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	1,464	-	-	-	-	-	-	-	-
Other Industries	-	-	-	5,262	49	-	-	25	3,387
Transport Sector	-	-	-	16,175	8,782	-	2,111	-	5,279
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	8,782	8,782	-	-	-	-
Rail	-	-	-	3	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	7,390	-	-	2,111	-	5,279
Other Sector	-	-	-	2,167	4	-	-	48	494
Residential	-	-	-	1,007	-	-	-	48	-
Commerce and Public Services	-	-	-	893	-	-	-	-	250
Agriculture	-	-	-	267	4	-	-	-	245
Non-specified Others	-	-	-	0	-	-	-	-	-
Non-energy	-	-	-	830	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	1,477	-	-	287	47,588	574	-	1	365	-	-	84,469
-	394	-	-	313	4,329	-	-	-	-	1	-	24,095
-	-1,517	-	-	-3,523	-22,314	-	-	-	-145	-9	-	-42,772
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	205
-	354	-	-	-2,923	29,603	574	-	1	219	-8	-	65,996
-	-	-	-	-	-	-	-	-	-	-	-	-
-205	731	402	-	-	-19,175	-574	-	-1	-223	9,211	-	-27,275
-205	-	-	-	-	-11,467	-574	-	-1	-26	8,546	-	-11,809
-	-	-	-	-	-1,186	-	-	-	-197	665	-	-810
-	-	-	-	-	-6,522	-	-	-	-	-	-	-6,522
-	731	402	-	-	-	-	-	-	-	-	-	-8,277
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	142
-	-	-402	-	-2,466	-4,602	-	-	-	-	-798	-	-8,268
1,495	53	-	-	6,188	-0	-	-	-	3	-123	-	7,791
1,290	1,138	-	-	799	5,826	-	-	-	-	8,283	-	38,244
1,195	63	-	-	-	3,891	-	-	-	-	3,717	-	13,419
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,195	63	-	-	-	3,891	-	-	-	-	3,717	-	12,041
21	-	-	-	-	202	-	-	-	-	11	-	16,066
-	-	-	-	-	-	-	-	-	-	-	-	2,112
-	-	-	-	-	202	-	-	-	-	-	-	8,863
-	-	-	-	-	-	-	-	-	-	11	-	11
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	5,081
73	-	-	-	-	23	-	-	-	-	4,555	-	5,175
-	-	-	-	-	2	-	-	-	-	1,791	-	1,807
66	-	-	-	-	22	-	-	-	-	2,743	-	3,159
7	-	-	-	-	-	-	-	-	-	21	-	210
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,075	-	-	799	1,709	-	-	-	-	-	-	3,582
-	1,876	-	-	330	57,022	642	-	-	-	-	-	96,208
1,060	171	-	-	1,005	4,447	-	-	-	-	9	-	28,701
-533	-1,652	-	-	-4,876	-21,600	-	-	-	-	-50	-	-46,337
-44	-	-	-	-6	-	-	-	-	-	-	-	-66
-	-	-	-	-	-	-	-	-	-	-	-	-
6	-10	-	-	-18	-	-	-	-	-	-	-	-666
489	385	-	-	-3,566	39,869	642	-	-	-	-41	-	77,839
-	-	-	-	-	-	-	-	-	-	-	-	-
1,812	1,207	990	-	4,472	-27,982	-642	-	-	-	9,563	-	-26,778
-180	-	-	-	-	-13,300	-642	-	-	-	9,103	-	-12,211
-	-	-	-	-	-1,004	-	-	-	-	460	-	-607
-	-	-	-	-	-13,679	-	-	-	-	-	-	-13,679
1,992	1,207	990	-	4,472	-	-	-	-	-	-	-	-281
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-2	-990	-	-	-1,411	-	-	-	-	-772	-	-3,175
-338	-116	-	-	-89	-1	-	-	-	-	-768	-	-3,532
1,963	1,474	-	-	817	10,474	-	-	-	-	7,983	-	44,354
1,701	99	-	-	-	8,257	-	-	-	-	3,685	-	18,667
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	1,464
1,701	99	-	-	-	8,257	-	-	-	-	3,685	-	17,203
3	-	-	-	-	189	-	-	-	-	15	-	16,378
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	189	-	-	-	-	-	-	8,971
3	-	-	-	-	-	-	-	-	-	15	-	18
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	7,390
259	1,362	-	-	-	36	-	-	-	-	4,283	-	6,486
-	959	-	-	-	6	-	-	-	-	1,667	-	2,680
241	402	-	-	-	30	-	-	-	-	2,597	-	3,520
18	-	-	-	-	-	-	-	-	-	19	-	286
-0	-	-	-	-	-	-	-	-	-	-	-	0
-	13	-	-	817	1,993	-	-	-	-	-	-	2,823

Major Energy Indicators of Malaysia

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	10,553	20,972	51,492	61,730	59,318	64,239	77,839	65,996
Indigenous Production	16,072	46,529	79,473	91,969	87,561	89,000	96,208	84,469
Import	6,752	9,708	16,271	23,687	24,493	30,167	28,701	24,095
Export	-11,759	-35,090	-43,637	-54,323	-52,868	-54,236	-46,337	-42,772
Final Energy Consumption	6,385	13,146	29,697	37,536	38,912	42,133	44,354	38,244
Industry	2,870	5,276	11,401	14,960	15,911	16,210	18,667	13,419
Transport	2,398	5,386	12,070	15,319	14,799	14,783	16,378	16,066
Residential	-	-	-	2,181	2,360	2,420	2,680	1,807
Commerce & Public Services	-	-	-	2,948	3,061	3,784	3,520	3,159
Others	1,117	2,484	6,226	2,128	2,780	4,936	3,109	3,792
Coal, Coal Products								
Primary Energy Supply	53	1,355	2,308	6,620	6,020	7,570	8,114	9,030
Indigenous Production	-	70	242	408	486	492	676	1,171
Import	53	1,424	1,943	6,277	5,829	7,203	8,310	7,797
Export	-	-28	-19	-42	-60	-233	-176	-102
Transformation Sector	-	-	-	-5,260	-5,095	-6,400	-6,894	-7,698
Power Generation	-	-813	-1,495	-5,260	-5,095	-6,400	-6,894	-7,698
Final Energy Consumption	53	513	991	1,280	1,141	1,163	1,464	1,378
Industry	53	513	991	1,280	1,141	1,163	1,464	1,378
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	5,783	10,024	24,137	26,799	25,802	26,932	29,229	26,319
Indigenous Production	13,707	30,629	33,835	36,746	34,986	34,514	35,513	32,869
Import	4,034	2,244	7,709	8,242	8,043	9,597	8,565	5,787
Export	-11,619	-22,949	-17,254	-19,073	-17,330	-17,023	-14,994	-12,378
Transformation Sector	-	-	-	-24,551	-24,971	-26,667	-26,740	-26,363
Petroleum Refineries	-5,901	-9,980	-22,164	-24,551	-24,971	-26,667	-26,740	-26,505
Petroleum Products								
Primary Energy Supply	2,353	2,454	-1,922	1,400	556	507	28	258
Import	2,658	6,031	6,619	7,954	7,726	8,445	7,370	6,180
Export	-132	-3,413	-8,533	-8,417	-9,520	-9,768	-9,517	-7,825
Transformation Sector	-	-	-	20,774	21,795	23,840	25,917	17,547
Power Generation	-2,346	-2,989	-966	-575	-820	-596	-542	-681
Petroleum Refineries	5,693	10,414	20,954	21,349	23,459	25,280	26,459	18,228
Final Energy Consumption	5,550	9,825	19,581	22,995	22,361	23,898	24,433	22,757
Industry	2,432	3,481	5,278	5,496	5,130	6,059	5,262	4,433
Transport	2,398	5,386	12,059	15,228	14,689	14,646	16,175	15,853
Residential	-	-	-	782	842	818	1,007	14
Commerce & Public Services	-	-	-	755	765	1,264	893	394
Others	720	958	2,244	733	937	1,111	1,097	2,062
Natural Gas								
Primary Energy Supply	2,237	6,801	26,370	26,414	26,386	28,866	39,869	29,603
Indigenous Production	2,245	15,487	44,797	51,992	49,449	50,961	57,022	47,588
Import	-	-	-	1,213	2,895	4,922	4,447	4,329
Export	-8	-8,686	-17,831	-26,791	-25,957	-27,016	-21,600	-22,314
Transformation Sector	-	-	-	-19,189	-17,507	-18,930	-27,982	-19,175
Power Generation	-33	-1,361	-12,110	-11,948	-11,982	-12,330	-14,304	-12,653
Final Energy Consumption	35	1,093	3,862	6,322	8,142	9,392	10,474	5,826
Industry	1	452	2,327	4,815	6,168	5,403	8,257	3,891
Transport	-	-	7	86	105	133	189	202
Residential	-	-	-	5	4	5	6	2
Commerce & Public Services	-	-	-	21	21	25	30	22
Others	34	641	1,528	1,395	1,844	3,825	1,993	1,709
Electricity								
Power Generation	864	1,979	5,952	7,508	7,721	8,714	9,563	9,211
Thermal	744	1,636	5,353	7,011	7,168	8,156	8,922	8,414
Hydro	120	343	599	497	554	558	642	574
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	223
Final Energy Consumption	747	1,715	5,263	6,940	7,268	7,680	7,983	8,283
Industry	384	830	2,805	3,369	3,473	3,585	3,685	3,717
Transport	-	-	4	5	5	3	15	11
Residential	-	-	-	1,394	1,514	1,597	1,667	1,791
Commerce & Public Services	-	-	-	2,171	2,276	2,494	2,597	2,743
Others	363	885	2,454	-0	-	0	19	21

Major Economic Indicators of Malaysia

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	13.76	18.10	23.27	25.63	26.09	26.56	27.01	27.47
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	26.41	47.21	93.79	118.22	125.14	133.25	139.52	137.13
Real Term (Billions of 2000 Price and 2000 PPP)	59.67	106.64	211.88	267.07	282.69	301.01	315.19	309.78
Nominal (Billions of Current USD)	24.94	44.02	93.79	137.95	156.60	186.77	222.11	192.85
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	1,919	2,608	4,030	4,612	4,796	5,018	5,165	4,992
Real Term (2000 Price and 2000 PPP)	4,336	5,891	9,104	10,419	10,833	11,335	11,667	11,278
Nominal (Current USD)	1,812	2,432	4,030	5,382	6,001	7,033	8,222	7,021
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	54.29	119.08	356.40	522.45	574.44	642.05	740.91	679.69
Household Final Consumption Expenditure, etc.	27.93	61.69	155.94	234.23	258.28	293.04	334.71	338.89
General Government Final Consumption Expenditure	8.68	16.43	36.23	64.52	68.61	78.40	92.53	95.92
Gross Fixed Capital Formation	16.26	39.35	90.14	107.19	119.21	138.39	144.63	136.82
Stock Change	-1.38	-0.81	5.62	-2.77	-1.72	0.01	-1.69	-38.36
Exports of Goods and Services	30.77	88.76	427.00	613.69	669.51	706.38	765.37	655.34
Imports of Goods and Services	29.46	86.24	358.53	494.41	539.44	574.17	594.66	508.93
Real GDP & its Components (Billions of 1987 MYR) *1								
Gross Domestic Product	100.38	179.38	356.40	449.25	475.53	506.34	530.18	521.10
Household Final Consumption Expenditure, etc.	58.14	90.51	155.94	216.25	230.95	255.26	277.00	278.87
General Government Final Consumption Expenditure	14.66	21.58	36.23	58.40	61.33	65.38	72.41	74.67
Gross Fixed Capital Formation	24.72	49.62	90.14	99.27	106.75	116.75	117.61	111.00
Stock Change	0.50	-1.16	5.62	-3.08	0.26	-0.77	-4.32	-14.29
Exports of Goods and Services	49.02	133.15	427.00	554.26	590.78	614.82	624.61	559.54
Imports of Goods and Services	50.09	121.42	358.53	475.84	514.54	545.10	557.11	488.69
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	20.4	15.7	8.6	8.0	7.9	7.5	7.5	7.7
Industry	37.5	41.8	48.3	46.5	45.9	44.4	42.8	40.7
Services, etc.	41.4	42.2	51.7	53.5	54.1	55.6	57.2	59.3
Industrial Production Index (2005=100) *2	13.4	31.6	78.4	100.0	105.0	107.3	108.1	99.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	12.958	29.452	98.229	140.980	160.676	176.211	199.516	157.433
Imports, c.i.f.	10.820	29.258	81.963	114.625	131.152	146.982	156.896	123.832
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.393	2.525	20.827	33.156	37.441	37.727	51.261	40.254
Current Account	-0.266	-0.870	8.488	19.980	26.200	29.770	38.914	31.801
Overall Balance	0.464	1.951	-1.009	3.620	6.864	13.144	-3.450	3.918
Foreign Exchange Rate (MYR/USD) *1	2.1769	2.7049	3.8000	3.7871	3.6682	3.4376	3.3358	3.5245
Purchasing Power Parity (MYR/International Dollar) *1	1.6903	1.3716	1.6821	1.7339	1.7444	1.7787	1.9185	1.7743
Price Indices								
GDP Deflator (2000=100) *3	54.1	66.4	100.0	116.3	120.8	126.8	139.7	130.4
Producer Price Index (2005=100) *2	N.A.	61.2	83.8	100.0	106.7	112.6	124.0	115.0
Consumer Price Index (2005=100) *2	47.2	64.7	91.7	100.0	103.6	105.7	111.5	112.1
Growth Rate (%) *3								
Real GDP	7.44	9.01	8.86	5.33	5.85	6.48	4.71	-1.71
Population	2.42	2.84	2.28	1.83	1.80	1.77	1.73	1.68
Price								
Producer Price Index	N.A.	0.9	3.1	6.9	6.7	5.5	10.2	-7.3
Consumer Price Index	6.7	2.6	1.5	3.0	3.6	2.0	5.4	0.6

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"

: 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	
2009									
Indigenous Production	5,063	-	151,795	-	-	-	-	-	-
Import	2,835	132	502	24,439	14,262	249	52	-	2,924
Export	-3	-	-67,633	-10,151	-16	-2,958	-206	-	-241
International Marine Bunkers	-	-	-	-775	-	-	-	-	-675
International Aviation Bunkers	-	-	-	-2,686	-25	-	-2,661	-	-
Stock Changes	-73	-207	436	329	66	-	17	-	207
Total Primary Energy Supply	7,823	-75	85,100	11,158	14,288	-2,708	-2,797	-	2,215
Transfers	-	-	-10,719	11,870	2,561	-	-62	20	-
Total Transformation Sector	-7,711	903	-74,512	60,810	20,978	3,170	2,773	-	18,840
Main Activity Producer	-6,341	-	-	-10,608	-	-	-	-	-571
Autoproducers	-	-103	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-74,512	71,419	20,978	3,170	2,773	-	19,411
Coal Transformation	-1,370	1,007	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-67	-	-6,733	-419	-	-	-	-1,015
Discrepancy	-0	214	131	-4,602	-1,973	-248	86	1	-1,910
Total Final Energy Consumption	112	975	-	72,502	35,434	213	-	21	18,130
Industry Sector	112	975	-	6,183	-	-	-	-	1,344
Iron and Steel	-	947	-	288	-	-	-	-	26
Chemical & Petrochemical	-	-	-	387	-	-	-	-	138
Non-metallic Minerals	99	-	-	2,779	-	-	-	-	13
Other Industries	13	28	-	2,728	-	-	-	-	1,166
Transport Sector	-	-	-	50,365	35,434	-	-	-	14,008
Domestic Air Transport	-	-	-	21	21	-	-	-	-
Road	-	-	-	49,148	35,413	-	-	-	12,883
Rail	-	-	-	550	-	-	-	-	550
Inland Waterways	-	-	-	645	-	-	-	-	575
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	10,700	-	-	-	21	2,778
Residential	-	-	-	6,450	-	-	-	20	-
Commerce and Public Services	-	-	-	1,453	-	-	-	-	102
Agriculture	-	-	-	2,797	-	-	-	1	2,676
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	5,254	-	213	-	-	-
2008									
Indigenous Production	5,477	-	163,112	-	-	-	-	-	-
Import	2,290	220	471	26,993	14,820	233	238	-	3,754
Export	-4	-2	-77,826	-6,820	-9	-2,862	-278	-	-395
International Marine Bunkers	-	-	-	-1,032	-	-	-	-	-935
International Aviation Bunkers	-	-	-	-3,179	-26	-	-3,153	-	-
Stock Changes	-997	725	-638	281	-33	-	56	-	261
Total Primary Energy Supply	6,766	944	85,119	16,242	14,752	-2,629	-3,137	-	2,685
Transfers	-	-	-10,619	11,762	2,642	-	-249	19	-
Total Transformation Sector	-6,625	1,067	-78,010	57,729	19,951	4,159	3,119	1	17,397
Main Activity Producer	-5,023	-	-	-11,070	-	-	-	-	-386
Autoproducers	-	-119	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-78,010	68,799	19,951	4,159	3,119	1	17,783
Coal Transformation	-1,602	1,187	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-27	-	-6,791	-399	-	-	-	-898
Discrepancy	0	-863	3,511	-2,924	-1,404	-233	267	1	92
Total Final Energy Consumption	142	1,122	-	76,019	35,542	1,297	-	21	19,276
Industry Sector	142	1,122	-	6,934	-	-	-	-	1,380
Iron and Steel	-	1,089	-	367	-	-	-	-	31
Chemical & Petrochemical	-	-	-	659	-	-	-	-	142
Non-metallic Minerals	115	-	-	2,999	-	-	-	-	10
Other Industries	27	33	-	2,909	-	-	-	-	1,197
Transport Sector	-	-	-	51,714	35,542	-	-	-	15,179
Domestic Air Transport	-	-	-	22	22	-	-	-	-
Road	-	-	-	50,227	35,520	-	-	-	13,801
Rail	-	-	-	577	-	-	-	-	577
Inland Waterways	-	-	-	887	-	-	-	-	801
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	10,953	-	-	-	21	2,717
Residential	-	-	-	6,717	-	-	-	20	-
Commerce and Public Services	-	-	-	1,501	-	-	-	-	104
Agriculture	-	-	-	2,735	-	-	-	1	2,613
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	6,418	-	1,297	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	38,407	2,297	2,737	6,010	8,383	-	-	214,691
2,140	3,165	-	-	1,646	10,777	-	-	-	-	30	-	38,714
-6,620	-38	-	-	-72	-588	-	-	-	-	-107	-	-78,481
-99	-	-	-	-1	-	-	-	-	-	-	-	-775
-	-	-	-	-	-	-	-	-	-	-	-	-2,686
50	-	-	-	-11	-65	-	-	-	-	-	-	420
-4,528	3,127	-	-	1,562	48,530	2,297	2,737	6,010	8,383	-78	-	171,885
-	6,392	-	2,959	-	-	-	-	-	-	-	-	1,150
7,975	992	3,241	-	2,841	-23,121	-2,297	-2,737	-5,849	-1,130	22,448	-	-33,196
-9,291	-	-	-	-747	-20,891	-2,274	-2,737	-5,818	-	20,219	-	-28,451
-	-	-	-	-	-2,842	-23	-	-31	-1,130	2,228	-	-1,902
-	-	-	-	-	613	-	-	-	-	-	-	613
17,266	992	3,241	-	3,588	-	-	-	-	-	-	-	-3,094
-	-	-	-	-	-	-	-	-	-	-	-	-363
-	-	-	-	-	-	-	-	-	-	-	-	-
-1,790	-178	-3,241	-	-89	-13,145	-	-	-	-	-5,229	-	-25,174
70	-634	-	-	5	-460	-	-	0	-0	153	-	-4,563
1,727	9,698	-	2,959	4,320	11,805	-	-	161	7,252	17,294	-	110,102
1,657	895	-	-	2,287	8,247	-	-	7	1,027	9,288	-	25,840
178	-	-	-	84	2,179	-	-	-	-	676	-	4,090
205	18	-	-	25	1,539	-	-	-	-	735	-	2,661
618	2	-	-	2,145	1,092	-	-	-	-	360	-	4,331
656	874	-	-	32	3,437	-	-	7	1,027	7,517	-	14,758
70	853	-	-	-	13	-	-	-	-	96	-	50,474
-	-	-	-	-	-	-	-	-	-	-	-	21
-	853	-	-	-	13	-	-	-	-	-	-	49,161
-	-	-	-	-	-	-	-	-	-	96	-	646
70	-	-	-	-	-	-	-	-	-	-	-	645
-	-	-	-	-	-	-	-	-	-	-	-	-
-	7,901	-	-	-	896	-	-	154	6,225	7,910	-	25,884
-	6,430	-	-	-	690	-	-	92	6,225	4,232	-	17,690
-	1,351	-	-	-	205	-	-	62	-	1,841	-	3,561
-	120	-	-	-	-	-	-	-	-	800	-	3,597
-	-	-	-	-	-	-	-	-	-	1,037	-	1,037
-	50	-	2,959	2,033	2,649	-	-	-	-	-	-	7,904
-	-	-	-	-	38,150	3,369	2,555	6,226	8,653	-	-	227,542
1,802	3,507	-	-	2,640	11,559	-	-	-	-	30	-	41,565
-3,234	-5	-	-	-38	-893	-	-	-	-	-125	-	-85,670
-96	-	-	-	-1	-	-	-	-	-	-	-	-1,032
-	-	-	-	-	-	-	-	-	-	-	-	-3,179
-35	6	-	-	25	189	-	-	-	-	-	-	-440
-1,562	3,508	-	-	2,626	49,005	3,369	2,555	6,226	8,653	-95	-	178,785
-	6,473	-	2,878	-	-	-	-	-	-	-	-	1,143
5,875	993	3,251	-	2,981	-22,938	-3,369	-2,555	-6,092	-1,035	22,520	-	-39,307
-9,934	-	-	-	-751	-20,648	-3,345	-2,555	-6,090	-	20,285	-	-28,446
-	-	-	-	-	-2,934	-25	-	-2	-1,035	2,235	-	-1,880
-	-	-	-	-	644	-	-	-	-	-	-	644
15,810	993	3,251	-	3,732	-	-	-	-	-	-	-	-9,211
-	-	-	-	-	-	-	-	-	-	-	-	-415
-	-	-	-	-	-	-	-	-	-	-	-	-
-1,951	-181	-3,251	-	-110	-13,004	-	-	-	-	-5,093	-	-24,914
-414	-725	-	-	-507	-557	-	-	0	-	62	-	-770
1,948	10,068	-	2,878	4,989	12,507	-	-	134	7,618	17,395	-	114,937
1,862	925	-	-	2,768	8,637	-	-	6	1,361	9,675	-	27,877
192	-	-	-	144	2,805	-	-	-	-	710	-	4,971
214	18	-	-	284	1,691	-	-	-	-	727	-	3,077
722	2	-	-	2,265	1,075	-	-	-	-	455	-	4,644
734	905	-	-	74	3,066	-	-	6	1,361	7,783	-	15,185
86	906	-	-	-	14	-	-	-	-	96	-	51,823
-	-	-	-	-	-	-	-	-	-	-	-	22
-	906	-	-	-	14	-	-	-	-	-	-	50,241
-	-	-	-	-	-	-	-	-	-	96	-	672
86	-	-	-	-	-	-	-	-	-	-	-	887
-	-	-	-	-	-	-	-	-	-	-	-	-
-	8,215	-	-	-	950	-	-	128	6,258	7,625	-	25,913
-	6,697	-	-	-	737	-	-	76	6,258	4,081	-	17,869
-	1,397	-	-	-	213	-	-	51	-	1,790	-	3,556
-	121	-	-	-	-	-	-	-	-	697	-	3,432
-	-	-	-	-	-	-	-	-	-	1,057	-	1,057
-	21	-	2,878	2,222	2,905	-	-	-	-	-	-	9,323

Major Energy Indicators of Mexico

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	97,158	122,501	145,091	169,258	171,292	175,871	178,785	171,885
Indigenous Production	149,022	194,661	222,311	253,442	250,504	243,939	227,542	214,691
Import	1,792	5,648	25,254	30,668	34,557	37,127	41,565	38,714
Export	-52,824	-75,521	-96,860	-110,939	-109,849	-100,417	-85,670	-78,481
Final Energy Consumption	65,089	84,117	98,170	105,160	109,780	113,362	114,937	110,102
Industry	18,331	26,372	27,803	26,851	28,180	28,800	27,877	25,840
Transport	23,518	28,530	36,159	44,463	46,929	49,604	51,823	50,474
Residential	-	15,749	18,092	17,684	17,814	17,853	17,869	17,690
Commerce & Public Services	-	1,481	3,429	3,424	3,633	3,563	3,556	3,561
Others	23,239	11,985	12,687	12,738	13,224	13,542	13,812	12,537
Coal, Coal Products								
Primary Energy Supply	2,355	3,467	6,846	9,113	9,081	9,099	7,710	7,748
Indigenous Production	1,725	3,387	5,415	5,159	5,510	6,000	5,477	5,063
Import	642	235	1,699	3,787	3,900	2,851	2,511	2,967
Export	-50	-6	-4	-4	-4	-6	-6	-3
Transformation Sector	-	-1,836	-5,319	-7,347	-7,132	-7,088	-5,557	-6,808
Power Generation	-	-1,725	-4,734	-7,067	-6,919	-6,899	-5,142	-6,445
Final Energy Consumption	1,549	1,555	1,378	1,250	1,261	1,270	1,264	1,087
Industry	1,549	1,555	1,378	1,250	1,261	1,270	1,264	1,087
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	58,310	82,018	78,348	92,069	88,059	86,475	85,119	85,100
Indigenous Production	102,752	152,756	171,117	197,237	190,491	179,381	163,112	151,795
Import	-	-	352	382	465	557	471	502
Export	-43,934	-70,432	-92,202	-105,474	-103,206	-93,230	-77,826	-67,633
Transformation Sector	-	-73,637	-67,311	-85,996	-77,543	-78,453	-78,010	-74,512
Petroleum Refineries	-53,007	-73,637	-67,311	-85,996	-77,543	-78,453	-78,010	-74,512
Petroleum Products								
Primary Energy Supply	-1,507	-1,753	11,842	9,661	11,228	13,782	16,242	11,158
Import	1,097	4,994	20,703	18,807	21,450	24,346	26,993	24,439
Export	-2,286	-4,915	-4,431	-5,139	-6,238	-5,829	-6,820	-10,151
Transformation Sector	-	50,097	42,108	55,138	58,292	57,206	57,729	60,810
Power Generation	-9,784	-15,119	-22,978	-16,062	-12,774	-12,423	-11,070	-10,608
Petroleum Refineries	48,726	65,215	65,086	71,200	71,066	69,629	68,799	71,419
Final Energy Consumption	39,064	51,210	61,663	68,880	72,099	74,827	76,019	72,502
Industry	5,251	7,445	7,479	7,286	7,598	7,861	6,934	6,183
Transport	23,481	28,461	36,058	44,353	46,818	49,495	51,714	50,365
Residential	-	6,573	7,635	6,881	6,894	6,818	6,717	6,450
Commerce & Public Services	-	540	1,732	1,535	1,682	1,569	1,501	1,453
Others	10,332	8,191	8,758	8,824	9,107	9,084	9,153	8,051
Natural Gas								
Primary Energy Supply	28,582	23,127	28,929	38,077	43,021	46,366	49,005	48,530
Indigenous Production	35,137	22,757	26,727	30,604	34,533	38,309	38,150	38,407
Import	-	370	2,408	7,684	8,697	9,349	11,559	10,777
Export	-6,555	-	-207	-211	-289	-1,227	-893	-588
Transformation Sector	-	-3,432	-7,830	-16,294	-19,756	-21,655	-22,938	-23,121
Power Generation	-2,837	-3,432	-8,683	-17,092	-20,505	-22,394	-23,582	-23,734
Final Energy Consumption	12,840	14,166	12,952	11,101	12,148	12,533	12,507	11,805
Industry	7,532	10,828	9,007	7,939	8,701	8,827	8,637	8,247
Transport	-	-	6	16	17	16	14	13
Residential	-	811	520	735	724	745	737	690
Commerce & Public Services	-	-	170	174	199	204	213	205
Others	5,308	2,527	3,250	2,237	2,506	2,741	2,905	2,649
Electricity								
Power Generation	5,320	9,962	17,559	20,969	21,457	22,123	22,520	22,448
Thermal	3,802	7,247	12,729	15,888	16,320	17,086	16,633	17,720
Hydro	1,439	2,019	2,849	2,379	2,614	2,346	3,369	2,297
Nuclear	-	255	714	939	944	905	852	912
Others	79	441	1,266	1,763	1,580	1,786	1,666	1,518
Final Energy Consumption	4,497	8,617	13,950	16,095	16,502	17,061	17,395	17,294
Industry	2,458	4,592	8,559	8,985	9,259	9,559	9,675	9,288
Transport	37	69	95	94	94	94	96	96
Residential	-	1,754	3,107	3,658	3,823	3,942	4,081	4,232
Commerce & Public Services	-	935	1,511	1,682	1,716	1,748	1,790	1,841
Others	2,002	1,267	679	1,677	1,610	1,718	1,754	1,837

Major Economic Indicators of Mexico

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	67.57	83.23	97.97	103.09	104.22	105.28	106.35	107.43
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	345.56	413.33	581.43	637.06	669.87	691.71	702.09	659.41
Real Term (Billions of 2000 Price and 2000 PPP)	535.72	640.77	901.37	987.62	1,038.48	1,072.34	1,088.43	1,022.26
Nominal (Billions of Current USD)	194.77	262.71	581.43	848.95	952.28	1,035.93	1,096.18	882.79
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	5,114	4,966	5,935	6,180	6,427	6,570	6,602	6,138
Real Term (2000 Price and 2000 PPP)	7,928	7,699	9,201	9,580	9,964	10,186	10,234	9,516
Nominal (Current USD)	2,883	3,157	5,935	8,235	9,137	9,840	10,307	8,217
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	4.47	738.90	5,497.74	9,251.74	10,379.09	11,320.84	12,200.13	11,929.52
Household Final Consumption Expenditure, etc.	2.91	514.12	3,682.55	6,142.08	6,714.81	7,316.01	7,833.87	7,972.89
General Government Final Consumption Expenditure	0.45	61.95	612.62	996.66	1,077.34	1,179.01	1,279.98	1,375.78
Gross Fixed Capital Formation	1.11	132.11	1,174.30	1,849.84	2,168.96	2,392.88	2,654.44	2,578.47
Stock Change	0.11	38.88	137.90	345.04	550.99	498.79	633.71	64.66
Exports of Goods and Services	0.48	137.44	1,700.95	2,507.35	2,902.87	3,161.64	3,416.61	3,291.67
Imports of Goods and Services	0.58	145.60	1,810.58	2,641.66	3,032.34	3,340.55	3,688.58	3,461.76
Real GDP & its Components (Billions of 1993 MXN) *1								
Gross Domestic Product	4,401.39	5,264.47	7,405.55	8,114.09	8,531.97	8,810.14	8,942.35	8,398.75
Household Final Consumption Expenditure, etc.	2,571.46	3,074.12	4,783.16	5,580.85	5,891.77	6,126.88	6,242.01	5,861.04
General Government Final Consumption Expenditure	544.76	726.14	907.62	899.45	907.82	936.16	944.20	965.48
Gross Fixed Capital Formation	996.27	884.23	1,520.51	1,645.21	1,824.92	1,951.63	2,036.84	1,831.19
Stock Change	447.38	178.86	446.47	138.63	99.66	42.57	35.32	-132.34
Exports of Goods and Services	256.45	543.86	1,907.59	2,280.31	2,529.70	2,675.09	2,687.40	2,288.59
Imports of Goods and Services	481.67	572.45	2,016.13	2,434.00	2,739.97	2,933.98	3,016.31	2,468.30
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	4.6	4.4	3.6	3.6	3.6	3.5	3.5	3.8
Industry	31.2	31.3	33.0	30.9	31.1	30.7	30.1	29.7
Services, etc.	57.4	59.0	58.6	60.3	59.9	60.4	61.0	60.7
Industrial Production Index (2005=100) *2	56.4	67.2	99.7	100.0	105.7	107.9	107.7	99.5
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.031	40.711	166.367	214.207	249.961	271.821	291.265	229.637
Imports, c.i.f.	22.144	43.548	179.464	228.240	263.476	290.246	318.304	241.515
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-3.056	-0.881	-8.337	-7.587	-6.133	-10.074	-17.261	-4.681
Current Account	-10.422	-7.451	-18.767	-5.095	-4.502	-8.865	-16.353	-6.366
Overall Balance	0.817	2.218	11.412	6.964	-1.303	10.250	7.731	5.690
Foreign Exchange Rate (MXN/USD) *1	0.0230	2.8126	9.4556	10.8979	10.8992	10.9282	11.1297	13.5135
Purchasing Power Parity (MXN/International Dollar) *1	0.0168	1.4368	6.0993	7.1269	7.2226	7.3272	7.4695	7.6903
Price Indices								
GDP Deflator (2003=100) *3	0.1	14.0	74.2	114.0	121.6	128.5	136.4	142.0
Wholesale Price Index (2005=100) *2	0.3	15.4	75.0	100.0	106.1	110.6	118.8	125.8
Consumer Price Index (2005=100) *2	0.1	14.6	78.6	100.0	103.6	107.7	113.3	119.3
Growth Rate (%)								
Real GDP *3	9.23	5.07	6.60	3.21	5.15	3.26	1.50	-6.08
Population *3	2.51	1.91	1.43	1.02	1.10	1.02	1.02	1.02
Price *2								
Wholesale Price Index	24.5	21.7	7.8	3.6	6.1	4.3	7.4	5.9
Consumer Price Index	26.4	26.7	9.5	4.0	3.6	4.0	5.1	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"

: 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					Gas/Diesel Oil
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	
2009									
Indigenous Production	2,661	-	2,702	-	-	-	-	-	-
Import	361	-	4,814	2,224	1,082	-	190	-	722
Export	-1,481	-	-2,338	-210	-5	-	-	-	-
International Marine Bunkers	-	-	-	-341	-	-	-	-	-38
International Aviation Bunkers	-	-	-	-737	-	-	-737	-	-
Stock Changes	-73	-	-54	32	-5	-	1	2	32
Total Primary Energy Supply	1,468	-	5,124	969	1,072	-	-545	2	716
Transfers	-	-	-76	79	-1	-	-17	-	-
Total Transformation Sector	-1,007	85	-5,167	5,253	1,511	-	922	1	1,752
Main Activity Producer	-627	-	-	-2	-	-	-	-	-2
Autoproducers	-7	-157	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,169	5,255	1,511	-	922	1	1,754
Coal Transformation	-373	242	-	-	-	-	-	-	-
Other Transformation	-	-	2	-	-	-	-	-	-
Loss & Own Use	-3	-50	-	-354	-	-	-	-	-
Discrepancy	47	0	119	-130	-79	-	-46	-1	4
Total Final Energy Consumption	504	35	-	5,818	2,502	-	314	2	2,473
Industry Sector	418	35	-	392	5	-	-	2	310
Iron and Steel	-	35	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	25	-	-	-	-	-	-	-	-
Other Industries	393	-	-	392	5	-	-	2	310
Transport Sector	0	-	-	4,565	2,453	-	314	-	1,733
Domestic Air Transport	-	-	-	325	12	-	314	-	-
Road	-	-	-	4,095	2,442	-	-	-	1,619
Rail	-	-	-	52	-	-	-	-	52
Inland Waterways	-	-	-	94	-	-	-	-	62
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	0	-	-	-	-	-	-	-	-
Other Sector	85	-	-	566	44	-	-	-	429
Residential	19	-	-	63	-	-	-	-	7
Commerce and Public Services	49	-	-	97	4	-	-	-	55
Agriculture	17	-	-	305	39	-	-	-	266
Non-specified Others	-	-	-	102	-	-	-	-	102
Non-energy	-	-	-	294	-	-	-	-	-
2008									
Indigenous Production	2,837	-	2,915	-	-	-	-	-	-
Import	319	-	4,970	2,284	928	-	251	-	840
Export	-1,781	-	-2,631	-210	-30	-	-	-	-
International Marine Bunkers	-	-	-	-349	-	-	-	-	-46
International Aviation Bunkers	-	-	-	-774	-	-	-774	-	-
Stock Changes	427	-	55	5	-1	-	-1	-	-15
Total Primary Energy Supply	1,801	-	5,310	956	897	-	-524	-	779
Transfers	-	-	-79	80	-22	-	-27	9	-1
Total Transformation Sector	-1,353	91	-5,306	5,351	1,604	-	947	1	1,779
Main Activity Producer	-978	-	-	-32	-	-	-	-	-32
Autoproducers	-7	-163	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-5,309	5,382	1,604	-	947	1	1,810
Coal Transformation	-368	254	-	-	-	-	-	-	-
Other Transformation	-	-	3	-	-	-	-	-	-
Loss & Own Use	-0	-54	-	-362	-	-	-	-	-
Discrepancy	128	-0	76	59	71	-	-51	-8	44
Total Final Energy Consumption	577	37	-	6,084	2,550	-	345	2	2,601
Industry Sector	425	37	-	475	9	-	-	1	374
Iron and Steel	-	37	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	425	-	-	475	9	-	-	1	374
Transport Sector	1	-	-	4,657	2,492	-	345	1	1,746
Domestic Air Transport	-	-	-	359	14	-	345	-	-
Road	-	-	-	4,157	2,478	-	-	1	1,639
Rail	-	-	-	50	-	-	-	-	50
Inland Waterways	-	-	-	91	-	-	-	-	57
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	1	-	-	-	-	-	-	-	-
Other Sector	150	-	-	629	50	-	-	-	480
Residential	8	-	-	64	-	-	-	-	6
Commerce and Public Services	103	-	-	113	4	-	-	-	68
Agriculture	40	-	-	350	45	-	-	-	305
Non-specified Others	-	-	-	102	1	-	-	-	101
Non-energy	-	-	-	323	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,548	2,083	-	4,505	1,095	-	-	16,593
-	107	-	-	122	-	-	-	-	-	-	-	7,399
-205	-	-	-	-	-	-	-	-	-	-	-	-4,028
-303	-	-	-	-	-	-	-	-	-	-	-	-341
-	-	-	-	-	-	-	-	-	-	-	-	-737
-10	2	-	-	10	-88	-	-	-	-	-	-	-183
-518	109	-	-	133	3,460	2,083	-	4,505	1,095	-	-	18,704
-	81	-	-	16	-	-	-	-	-	-	-	3
568	-	312	-	188	-1,542	-2,083	-	-4,262	-150	3,739	36	-5,099
-	-	-	-	-	-1,419	-2,082	-	-4,262	-30	3,597	-	-4,826
-	-	-	-	-	-123	-1	-	-	-118	142	36	-228
-	-	-	-	-	-	-	-	-	-	-	-	-
568	-	312	-	188	-	-	-	-	-	-	-	86
-	-	-	-	-	-	-	-	-	-	-	-	-131
-	-	-	-	-	-	-	-	-	-2	-	-	0
-	-	-312	-	-41	-245	-	-	-	-	-428	-	-1,080
-7	-0	-	-	-1	31	0	-	-	-0	-54	-36	-24
43	190	-	-	294	1,704	-	-	243	944	3,256	-	12,504
11	63	-	-	-	860	-	-	151	795	1,146	-	3,798
-	-	-	-	-	58	-	-	-	-	121	-	215
-	-	-	-	-	384	-	-	-	-	37	-	421
-	-	-	-	-	34	-	-	-	-	22	-	81
11	63	-	-	-	384	-	-	151	795	966	-	3,081
32	34	-	-	-	1	-	-	-	-	9	-	4,575
-	-	-	-	-	-	-	-	-	-	-	-	325
-	34	-	-	-	1	-	-	-	-	-	-	4,096
-	-	-	-	-	-	-	-	-	-	-	-	52
32	-	-	-	-	-	-	-	-	-	-	-	94
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	9	-	9
-	93	-	-	-	316	-	-	92	149	2,101	-	3,310
-	56	-	-	-	146	-	-	15	143	1,103	-	1,489
-	38	-	-	-	131	-	-	60	6	794	-	1,137
-	-	-	-	-	39	-	-	17	-	144	-	523
-	-	-	-	-	-	-	-	-	-	60	-	162
-	-	-	-	294	526	-	-	-	-	-	-	821
-	-	-	-	-	3,439	1,922	-	3,899	1,169	-	-	16,181
8	115	-	-	142	-	-	-	-	1	-	-	7,575
-180	-	-	-	-	-	-	-	-	-	-	-	-4,623
-303	-	-	-	-	-	-	-	-	-	-	-	-349
-	-	-	-	-	-	-	-	-	-	-	-	-774
21	-3	-	-	4	-	-	-	-	-	-	-	487
-454	112	-	-	146	3,439	1,922	-	3,899	1,170	-	-	18,498
-1	84	-	-	37	-	-	-	-	-	-	-	0
518	-	327	-	174	-1,809	-1,922	-	-3,661	-144	3,771	34	-4,948
-	-	-	-	-	-1,684	-1,921	-	-3,661	-31	3,628	-	-4,679
-	-	-	-	-	-125	-1	-	-	-110	143	34	-229
-	-	-	-	-	-	-	-	-	-	-	-	-
518	-	327	-	174	-	-	-	-	-	-	-	74
-	-	-	-	-	-	-	-	-	-	-	-	-114
-	-	-	-	-	-	-	-	-	-3	-	-	0
-	-	-327	-	-34	-252	-	-	-	-	-444	-	-1,112
3	0	-	-	-0	-77	-	-	-	-0	-37	-34	115
66	196	-	-	323	1,301	-	-	237	1,026	3,290	-	12,553
32	59	-	-	-	671	-	-	146	875	1,198	-	3,828
-	-	-	-	-	67	-	-	-	-	127	-	231
-	-	-	-	-	253	-	-	-	-	38	-	290
-	-	-	-	-	33	-	-	-	-	22	-	55
32	59	-	-	-	319	-	-	146	875	1,012	-	3,251
34	39	-	-	-	1	-	-	-	-	9	-	4,667
-	-	-	-	-	-	-	-	-	-	-	-	359
-	39	-	-	-	1	-	-	-	-	-	-	4,158
-	-	-	-	-	-	-	-	-	-	-	-	50
34	-	-	-	-	-	-	-	-	-	-	-	91
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	9	-	10
1	98	-	-	-	246	-	-	92	151	2,083	-	3,352
-	58	-	-	-	117	-	-	14	145	1,090	-	1,438
1	40	-	-	-	94	-	-	60	6	789	-	1,166
-	-	-	-	-	35	-	-	17	-	145	-	587
-	-	-	-	-	-	-	-	-	-	59	-	161
-	-	-	-	323	383	-	-	-	-	-	-	707

Major Energy Indicators of New Zealand

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	9,501	14,014	17,615	17,547	17,840	17,972	18,498	18,704
Indigenous Production	6,031	12,662	14,895	13,543	14,034	15,072	16,181	16,593
Import	4,058	3,817	5,953	7,410	7,515	7,572	7,575	7,399
Export	-86	-1,696	-2,574	-2,486	-2,710	-3,232	-4,623	-4,028
Final Energy Consumption	7,301	9,693	12,806	12,275	12,359	12,470	12,553	12,504
Industry	2,472	3,528	3,975	3,807	3,695	3,824	3,828	3,798
Transport	2,269	2,961	4,066	4,543	4,597	4,639	4,667	4,575
Residential	-	1,209	1,353	1,432	1,478	1,440	1,438	1,489
Commerce & Public Services	-	876	1,133	1,158	1,137	1,168	1,166	1,137
Others	2,560	1,119	2,279	1,336	1,451	1,398	1,454	1,505
Coal, Coal Products								
Primary Energy Supply	1,113	1,190	1,058	2,207	2,044	1,559	1,801	1,468
Indigenous Production	1,179	1,423	2,074	3,164	3,404	2,832	2,837	2,661
Import	-	6	22	567	643	388	319	361
Export	-66	-239	-1,100	-1,667	-1,934	-1,445	-1,781	-1,481
Transformation Sector	-	-418	-487	-1,533	-1,464	-896	-1,262	-922
Power Generation	-127	-170	-384	-1,406	-1,348	-771	-1,148	-791
Final Energy Consumption	851	674	490	519	562	575	614	539
Industry	556	474	375	394	413	439	462	453
Transport	2	2	2	2	2	2	1	0
Residential	-	87	25	20	16	12	8	19
Commerce & Public Services	-	103	75	76	87	89	103	49
Others	294	9	13	27	45	33	40	17
Crude Oil								
Primary Energy Supply	3,030	5,015	5,430	5,214	5,263	5,018	5,310	5,124
Indigenous Production	337	2,608	1,944	1,084	1,061	2,086	2,915	2,702
Import	2,746	3,293	4,724	4,829	4,780	4,698	4,970	4,814
Export	-	-965	-1,263	-636	-680	-1,664	-2,631	-2,338
Transformation Sector	-	-4,866	-5,222	-5,069	-5,259	-4,876	-5,306	-5,167
Petroleum Refineries	-3,102	-4,866	-5,222	-5,069	-5,259	-4,877	-5,309	-5,169
Petroleum Products								
Primary Energy Supply	865	-739	249	830	964	1,241	956	969
Import	1,312	519	1,208	2,013	2,093	2,486	2,284	2,224
Export	-20	-492	-211	-183	-95	-123	-210	-210
Transformation Sector	-	4,969	5,266	5,425	5,291	5,066	5,351	5,253
Power Generation	-	-6	-	-1	-5	-	-32	-2
Petroleum Refineries	2,865	4,975	5,266	5,426	5,296	5,079	5,382	5,255
Final Energy Consumption	3,660	4,026	5,306	5,963	6,017	6,057	6,084	5,818
Industry	488	285	337	426	436	461	475	392
Transport	2,256	2,894	4,056	4,532	4,586	4,628	4,657	4,565
Residential	-	12	49	67	72	76	64	63
Commerce & Public Services	-	168	119	150	115	122	113	97
Others	916	667	745	788	808	770	775	701
Natural Gas								
Primary Energy Supply	760	3,872	5,057	3,229	3,311	3,644	3,439	3,460
Indigenous Production	763	3,872	5,056	3,228	3,311	3,645	3,439	3,548
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-1,990	-1,842	-1,725	-1,750	-2,105	-1,809	-1,542
Power Generation	-332	-1,240	-1,842	-1,725	-1,750	-2,105	-1,809	-1,542
Final Energy Consumption	407	1,803	2,984	1,304	1,239	1,252	1,301	1,704
Industry	311	1,253	1,188	692	631	660	671	860
Transport	8	57	-	-	1	1	1	1
Residential	-	75	154	140	141	121	117	146
Commerce & Public Services	-	106	307	164	113	108	94	131
Others	87	312	1,336	307	354	361	418	566
Electricity								
Power Generation	1,952	2,775	3,375	3,695	3,750	3,763	3,771	3,739
Thermal	49	469	864	1,245	1,246	1,207	1,260	459
Hydro	1,648	1,994	2,101	2,006	2,027	2,033	1,922	2,083
Nuclear	-	-	-	-	-	-	-	-
Others	254	312	410	444	476	522	589	1,197
Final Energy Consumption	1,670	2,425	2,945	3,270	3,350	3,344	3,290	3,256
Industry	645	963	1,206	1,316	1,266	1,263	1,198	1,146
Transport	3	9	9	9	9	9	9	9
Residential	-	877	968	1,044	1,089	1,071	1,090	1,103
Commerce & Public Services	-	454	586	700	755	780	789	794
Others	1,022	123	176	200	231	221	204	204

Major Economic Indicators of New Zealand

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	3.11	3.45	3.86	4.13	4.18	4.23	4.27	4.32
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	32.90	40.10	53.38	64.36	65.80	67.68	66.96	67.48
Real Term (Billions of 2000 Price and 2000 PPP)	50.15	61.13	81.38	98.11	100.30	103.17	102.07	102.87
Nominal (Billions of Current USD)	23.08	44.43	53.38	113.06	109.38	133.95	130.43	117.36
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	10,568	11,630	13,838	15,570	15,723	16,006	15,685	15,636
Real Term (2000 Price and 2000 PPP)	16,109	17,729	21,094	23,734	23,968	24,399	23,909	23,835
Nominal (Current USD)	7,415	12,885	13,838	27,349	26,138	31,679	30,553	27,194
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	23.70	74.47	117.51	160.57	168.66	182.26	185.56	187.80
Household Final Consumption Expenditure, etc.	14.20	45.50	69.95	95.50	100.56	105.52	108.40	110.41
General Government Final Consumption Expenditure	4.82	14.06	20.26	28.70	31.11	33.85	36.80	38.47
Gross Fixed Capital Formation	4.89	14.92	23.60	38.56	38.99	41.67	40.08	36.49
Stock Change	-0.03	-0.15	1.42	1.10	0.07	1.41	0.91	-2.45
Exports of Goods and Services	6.90	19.76	41.16	43.93	48.28	51.54	56.92	52.97
Imports of Goods and Services	7.19	19.57	39.22	47.51	50.67	53.15	59.37	49.82
Real GDP & its Components (Billions of 2000 NZD) *1								
Gross Domestic Product	72.41	88.27	117.51	141.67	144.83	148.97	147.38	148.54
Household Final Consumption Expenditure, etc.	44.05	53.73	69.95	87.54	89.58	92.43	91.40	90.91
General Government Final Consumption Expenditure	14.26	16.70	20.26	24.48	25.58	26.85	27.99	28.38
Gross Fixed Capital Formation	10.64	16.02	23.60	34.70	33.90	35.50	33.66	29.63
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	16.19	23.95	41.16	48.40	49.81	51.34	49.67	49.87
Imports of Goods and Services	14.31	23.44	39.22	57.80	56.89	62.59	59.64	50.83
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	7.4	8.7	8.2	7.7	7.7	7.4	7.2	N.A.
Industry	27.7	25.4	23.2	23.1	21.8	21.8	20.9	N.A.
Services, etc.	64.9	65.8	68.3	69.3	69.2	69.7	70.4	N.A.
Manufacturing Production Index (2005=100) *2	55.1	58.8	87.7	100.0	96.3	97.6	96.9	89.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.421	9.394	13.272	21.730	22.409	26.948	30.578	24.932
Imports, c.i.f.	5.473	9.501	13.906	26.219	26.424	30.886	34.367	25.545
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.303	0.815	0.609	-2.577	-1.997	-1.790	-1.705	1.316
Current Account	-0.973	-1.453	-2.407	-8.777	-8.933	-10.706	-11.424	-3.624
Overall Balance	-0.314	1.014	-0.106	2.417	4.255	3.088	-4.997	3.654
Foreign Exchange Rate (NZD/USD) *1	1.0267	1.6762	2.2011	1.4203	1.5421	1.3607	1.4227	1.6002
Purchasing Power Parity (NZD/International Dollar) *1	0.8756	1.5231	1.4440	1.5350	1.4877	1.5044	1.4907	1.4873
Price Indices								
GDP Deflator (2000=100) *3	32.7	84.4	100.0	113.3	116.5	122.3	125.9	126.4
Industry Input Price Index (2005=100) *2	31.2	73.6	89.3	100.0	105.2	108.9	119.8	116.9
Consumer Price Index (2005=100) *2	26.8	73.8	88.4	100.0	103.2	105.8	109.9	112.0
Growth Rate (%) *3								
Real GDP	0.90	0.04	2.66	3.25	2.23	2.86	-1.07	0.79
Population	0.13	1.47	0.59	1.14	1.23	1.04	0.96	1.10
Price								
Industry Input Price Index	22.9	4.7	8.3	5.4	5.2	3.6	10.0	-2.4
Consumer Price Index	17.1	6.1	3.0	3.2	3.2	2.6	3.9	1.9

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"

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

: PPP means Purchasing Power Parity

Energy Price of New Zealand in 2009

Currency Exchange Rate

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

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES		WHOLESALE PRICES		CONSUMER PRICES	
	Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products		
Coking Coal			Coking Coal		
Anthracite			Anthracite		
Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite		
Peat			Peat		
Patent Fuel			Patent Fuel		
Coke			Coke		
Coal Tar			Coal Tar		
BKB/PB			BKB/PB		
			Gas Works Gas		
Oil and Oil Products			Oil and Oil Products		
Crude Oil	bbl	103.8	Crude Oil		
Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane		
LPG			LPG		
Naphtha			Naphtha		
Motor Gasoline	litre *	0.7936	Motor Gasoline		
Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene			Other Kerosene		
Gas/Diesel Oil	litre	0.7905	Gas/Diesel Oil	litre	0.8902
Fuel Oil			Fuel Oil	litre **	0.8636
White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants		
Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas		
Natural Gas			Natural Gas		
Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity		
Electricity			Electricity	kWh	0.0471
			Industrial		
			Commercial	kWh	0.1564
			Residential	kWh	0.2444
			Others		
Other Energy Products			Other Energy Products		

* regular petrol price
 ** heavy fuel oil
 *** premium petrol price

3.13 Papua New Guinea

Energy Balance Table of Papua New Guinea

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	-	-	2,018	-	-	-	-	-	-
Import	-	-	753	690	26	-	-	38	366
Export	-	-	-1,943	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	69	-47	-4	-16	2	-	-11
Total Primary Energy Supply	-	-	897	643	21	-16	2	38	355
Transfers	-	-	-	-1	70	-168	-	-	97
Total Transformation Sector	-	-	-825	268	-	184	84	-	166
Main Activity Producer	-	-	-	-94	-	-	-	-	-46
Autoproducers	-	-	-	-479	-	-	-	-	-206
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-825	841	-	184	84	-	418
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-25	-	-	-	-	-
Discrepancy	-	-	-68	-0	0	-	-0	-	-
Total Final Energy Consumption	-	-	4	885	92	-	86	38	617
Industry Sector	-	-	4	426	-	-	-	-	396
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	4	426	-	-	-	-	396
Transport Sector	-	-	-	404	92	-	86	-	221
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	404	92	-	86	-	221
Other Sector	-	-	-	54	-	-	-	38	-
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	54	-	-	-	38	-
Non-energy	-	-	-	-	-	-	-	-	-
2008									
Indigenous Production	-	-	2,102	-	-	-	-	-	-
Import	-	-	870	642	83	-	-	37	287
Export	-	-	-2,044	-	-	-	-	-	-
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	-85	-26	-4	-8	1	-	-6
Total Primary Energy Supply	-	-	844	616	79	-8	1	37	281
Transfers	-	-	-12	8	11	-201	-	-	198
Total Transformation Sector	-	-	-799	259	-	210	88	-	138
Main Activity Producer	-	-	-	-83	-	-	-	-	-41
Autoproducers	-	-	-	-469	-	-	-	-	-195
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-799	811	-	210	88	-	374
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-14	-	-	-	-	-5
Discrepancy	-	-	-29	-1	-0	-0	-2	1	-0
Total Final Energy Consumption	-	-	4	868	90	-	87	38	612
Industry Sector	-	-	4	425	-	-	-	-	396
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	4	425	-	-	-	-	396
Transport Sector	-	-	-	398	90	-	87	-	216
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	398	90	-	87	-	216
Other Sector	-	-	-	44	-	-	-	38	-
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	44	-	-	-	38	-
Non-energy	-	-	-	-	-	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	338	73	-	320	-	-	-	2,749
246	14	-	-	-	-	-	-	-	-	-	-	1,443
-	-	-	-	-	-	-	-	-	-	-	-	-1,943
-	-	-	-	-	-	-	-	-	-	-	-	-
-1	-1	-	-	-15	-	-	-	-	-	-	-	22
245	13	-	-	-15	338	73	-	320	-	-	-	2,270
-	-	-	-	-	-	-	-	-	-	-	-	-1
-222	6	25	-	26	-118	-73	-	-320	-	296	-	-771
-47	-	-	-	-	-	-43	-	-	-	66	-	-70
-274	-	-	-	-	-118	-31	-	-320	-	230	-	-718
-	-	-	-	-	-	-	-	-	-	-	-	-
99	6	25	-	26	-	-	-	-	-	-	-	16
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-25	-	-	-220	-	-	-	-	-24	-	-270
-0	-	-	-	-	-	-0	-	-	-	1	-	-67
23	19	-	-	11	-	-	-	-	-	273	-	1,162
17	13	-	-	-	-	-	-	-	-	199	-	629
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17	13	-	-	-	-	-	-	-	-	199	-	629
5	-	-	-	-	-	-	-	-	-	-	-	404
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	404
-	6	-	-	11	-	-	-	-	-	74	-	128
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	6	-	-	11	-	-	-	-	-	74	-	128
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	338	74	-	320	-	-	-	2,833
223	13	-	-	-	-	-	-	-	-	-	-	1,513
-	-	-	-	-	-	-	-	-	-	-	-	-2,044
-	-	-	-	-	-	-	-	-	-	-	-	-
-8	-1	-	-	-	-	-	-	-	-	-	-	-111
215	12	-	-	-	338	74	-	320	-	-	-	2,191
1	-	-	-	-	-	-	-	-	-	-	-	-3
-194	9	8	-	-	-118	-74	-	-320	-	290	-	-762
-42	-	-	-	-	-	-43	-	-	-	62	-	-63
-274	-	-	-	-	-118	-31	-	-320	-	228	-	-710
-	-	-	-	-	-	-	-	-	-	-	-	-
121	9	8	-	-	-	-	-	-	-	-	-	12
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-2	-8	-	-	-220	-	-	-	-	-18	-	-253
0	-0	-	-	-	0	-	-	-	-	0	-	-30
23	19	-	-	-	-	-	-	-	-	272	-	1,144
17	13	-	-	-	-	-	-	-	-	199	-	628
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17	13	-	-	-	-	-	-	-	-	199	-	628
6	-	-	-	-	-	-	-	-	-	-	-	398
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	398
-	6	-	-	-	-	-	-	-	-	73	-	117
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	6	-	-	-	-	-	-	-	-	73	-	117
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Papua New Guinea

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	631	866	1,123	1,799	1,908	2,148	2,191	2,270
Indigenous Production	27	4,612	3,866	2,894	3,396	2,636	2,833	2,749
Import	625	797	908	1,673	1,724	1,596	1,513	1,443
Export	-	-4,512	-3,651	-2,767	-2,917	-1,659	-2,044	-1,943
Final Energy Consumption	442	613	880	1,115	1,129	1,141	1,144	1,162
Industry	161	190	480	617	623	643	628	629
Transport	211	209	306	369	375	383	398	404
Residential	29	35	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	41	179	94	129	131	114	117	128
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	1,084	824	844	897
Indigenous Production	-	4,500	3,651	2,462	2,867	1,987	2,102	2,018
Import	-	-	-	917	993	778	870	753
Export	-	-4,500	-3,651	-2,344	-2,482	-1,487	-2,044	-1,943
Transformation Sector	-	-	-	-993	-1,060	-800	-799	-825
Petroleum Refineries	-	-	-	-993	-1,060	-800	-799	-825
Petroleum Products								
Primary Energy Supply	604	753	908	331	295	675	616	643
Import	625	796	908	756	730	818	642	690
Export	-	-12	-	-423	-435	-172	-	-
Transformation Sector	-	-	-	527	562	187	259	268
Power Generation	-263	-345	-222	-474	-498	-573	-552	-573
Petroleum Refineries	-	-	-	1,000	1,060	760	811	841
Final Energy Consumption	339	398	686	836	850	858	868	885
Industry	80	87	338	419	425	433	425	426
Transport	211	209	306	369	375	383	398	404
Residential	19	24	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	29	78	42	48	50	42	44	54
Natural Gas								
Primary Energy Supply	-	72	119	241	259	326	338	338
Indigenous Production	-	72	119	241	259	326	338	338
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-120	-111	-108	-118	-118
Power Generation	-	-	-119	-120	-111	-108	-118	-118
Final Energy Consumption	-	72	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	72	-	-	-	-	-	-
Electricity								
Power Generation	108	154	204	284	285	289	290	296
Thermal	81	114	108	196	191	190	184	191
Hydro	27	40	80	77	74	74	74	73
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	16	11	20	25	32	32
Final Energy Consumption	103	142	194	266	267	270	272	273
Industry	81	103	142	198	198	198	199	199
Transport	-	-	-	-	-	-	-	-
Residential	10	11	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	12	28	52	68	69	72	73	74

Major Economic Indicators of Papua New Guinea

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	3.20	4.13	5.39	6.12	6.27	6.42	6.58	6.73
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	2.07	2.34	3.50	3.79	3.89	4.17	4.45	4.70
Real Term (Billions of 2000 Price and 2000 PPP)	5.49	6.22	9.30	10.08	10.34	11.09	11.83	12.48
Nominal (Billions of Current USD)	2.55	3.22	3.50	4.90	5.60	6.34	8.01	7.93
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	646	567	650	620	621	650	677	698
Real Term (2000 Price and 2000 PPP)	1,717	1,507	1,726	1,648	1,650	1,726	1,799	1,854
Nominal (Current USD)	796	780	650	801	894	987	1,218	1,178
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	1.71	3.08	9.74	15.19	17.13	18.80	21.63	21.84
Household Final Consumption Expenditure, etc.	1.05	1.82	4.34	8.72	8.88	10.50	12.95	15.52
General Government Final Consumption Expenditure	0.41	0.76	1.61	2.01	2.07	2.13	2.23	2.33
Gross Fixed Capital Formation	0.39	0.77	1.99	2.75	3.10	3.38	4.02	4.04
Stock Change	0.04	-0.02	0.14	0.26	0.29	0.30	0.30	0.30
Exports of Goods and Services	0.74	1.25	6.44	11.19	14.06	15.22	16.13	12.62
Imports of Goods and Services	0.91	1.51	4.79	9.74	11.27	12.81	13.37	12.44
Real GDP & its Components (Billions of 1983 PGK) *1								
Gross Domestic Product	4.58	5.19	7.75	8.40	8.62	9.24	9.86	10.40
Household Final Consumption Expenditure, etc.	3.28	3.06	3.30	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	1.17	1.10	1.45	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	1.28	1.33	1.78	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	0.09	-0.04	0.13	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	2.01	2.54	5.23	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	3.70	2.90	4.14	N.A.	N.A.	N.A.	N.A.	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	35.9	39.1	39.4	37.3	36.7	35.5	34.9	34.2
Industry	25.4	22.5	31.4	32.5	32.6	32.8	33.0	32.9
Services, etc.	39.6	40.1	23.8	24.6	25.2	25.8	26.3	25.6
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.	1.031	1.177	2.096	3.273	4.166	4.681	5.713	4.328
Imports, c.i.f.	1.176	1.193	1.151	1.729	2.260	2.990	3.560	3.200
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.035	0.069	1.095	1.792	2.214	2.119	2.665	1.521
Current Account	-0.289	-0.076	0.345	0.539	0.333	0.056	0.708	-0.672
Overall Balance	-0.084	0.022	0.104	-0.222	-0.743	-0.666	0.038	-0.603
Foreign Exchange Rate (PGK/USD) *1	0.6709	0.9550	2.7822	3.1019	3.0567	2.9653	2.7001	2.7551
Purchasing Power Parity (PGK/International Dollar) *1	0.5779	0.6071	1.0469	1.3359	1.4220	1.4139	1.4921	1.4154
Price Indices								
GDP Deflator (1998=100) *3	37.3	59.3	125.6	180.8	198.8	203.4	219.4	210.0
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	15.8	27.7	68.6	100.0	102.4	103.3	114.4	122.3
Growth Rate (%) *3								
Real GDP	-2.30	-3.01	-2.49	3.60	2.58	7.20	6.70	5.50
Population	2.35	2.60	2.69	2.51	2.48	2.44	2.40	2.36
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	12.1	7.0	15.6	1.8	2.4	0.9	10.8	6.9

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"

: 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	Gas/Diesel Oil
2009									
Indigenous Production	225	-	6,733	-	-	-	-	-	-
Import	531	22	5,024	1,176	150	-	47	-	858
Export	-	-	-1,011	-3,362	-1,569	-	-431	-	-75
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	42	8	45	-1,251	-451	-	375	-	-917
Total Primary Energy Supply	799	30	10,792	-3,437	-1,870	-	-9	-	-134
Transfers	-	-	-1,269	3,062	1,320	-	-74	74	475
Total Transformation Sector	-258	-	-9,571	8,826	1,804	-	670	-0	3,827
Main Activity Producer	-258	-	-	-344	-	-	-	-	-76
Autoproducers	-	-	-	-169	-	-	-	-0	-104
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-9,571	9,338	1,804	-	670	-	4,007
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-354	-13	-	-	-	-106
Discrepancy	9	0	48	59	-0	-	-0	-	41
Total Final Energy Consumption	550	30	-	8,157	1,241	-	586	74	4,103
Industry Sector	550	30	-	1,470	16	-	-	19	672
Iron and Steel	67	30	-	425	2	-	-	14	353
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	482	-	-	-	-	-	-	-	-
Other Industries	-	-	-	1,045	15	-	-	5	319
Transport Sector	-	-	-	5,245	1,058	-	586	-	3,345
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	5,245	1,058	-	586	-	3,345
Other Sector	-	-	-	1,158	167	-	-	56	85
Residential	-	-	-	623	-	-	-	12	-
Commerce and Public Services	-	-	-	286	150	-	-	41	31
Agriculture	-	-	-	30	16	-	-	0	11
Non-specified Others	-	-	-	219	0	-	-	2	42
Non-energy	-	-	-	284	-	-	-	-	-
2008									
Indigenous Production	99	-	5,611	-	-	-	-	-	-
Import	475	174	4,979	1,882	108	-	64	-	1,438
Export	-	-	-925	-3,155	-1,197	-	-445	-	-153
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	176	-	-135	-1,087	-392	-	-66	-	-545
Total Primary Energy Supply	749	174	9,531	-2,360	-1,481	-	-447	-	740
Transfers	-	-	-1,402	1,469	462	-	-	-	224
Total Transformation Sector	-251	-78	-9,146	8,018	1,622	-	631	41	2,732
Main Activity Producer	-251	-	-	-497	-	-	-	-	-126
Autoproducers	-	-	-	-194	-	-	-	-0	-130
Gas Processing	-	-	-275	-	-	-	-	-	-
Petroleum Refineries	-	-	-8,871	8,708	1,622	-	631	42	2,988
Coal Transformation	-	-78	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-359	-13	-	-	-	-107
Discrepancy	3	-18	1,018	355	358	-	-1	0	-5
Total Final Energy Consumption	502	77	-	7,123	948	-	183	42	3,583
Industry Sector	502	77	-	1,591	-	-	-	-	595
Iron and Steel	70	37	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	426	-	-	-	-	-	-	-	-
Other Industries	6	41	-	1,591	-	-	-	-	595
Transport Sector	-	-	-	4,252	936	-	183	-	2,946
Domestic Air Transport	-	-	-	183	-	-	183	-	-
Road	-	-	-	4,051	936	-	-	-	2,946
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	18	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	1,022	12	-	-	42	42
Residential	-	-	-	663	-	-	-	42	-
Commerce and Public Services	-	-	-	63	-	-	-	-	-
Agriculture	-	-	-	29	12	-	-	-	9
Non-specified Others	-	-	-	268	-	-	-	-	33
Non-energy	-	-	-	257	-	-	-	-	-

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
-	-	-	-	-	3,510	1,708	-	7	255	-	-	12,439
-	-	-	-	121	-	-	-	-	49	-	-	6,803
-978	-289	-	-	-20	-	-	-	-	-	-5	-	-4,378
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-114	-35	-	-	-109	-	-	-	-	-	-	-	-1,155
-1,092	-324	-	-	-7	3,510	1,708	-	7	304	-5	-	13,708
-	1,249	-	-	18	-	-	-	-	-	-	-	1,794
1,915	207	127	-	276	-2,098	-1,708	-	-7	-303	2,841	-	-2,280
-268	-	-	-	-	-2,014	-1,668	-	-	-	2,636	-	-1,647
-60	-	-5	-	-	-85	-41	-	-7	-158	204	-	-255
-	-	-	-	-	-	-	-	-	-	-	-	-
2,243	207	131	-	276	-	-	-	-	-	-	-	-232
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-145	-	-	-145
-87	-0	-145	-	-3	-720	-	-	-	-	-274	-	-1,348
-0	-0	18	-	0	78	-	-	-	-1	0	-	193
736	1,132	-	-	284	769	-	-	-	-	2,561	-	12,067
555	209	-	-	-	489	-	-	-	-	1,401	-	3,941
38	18	-	-	-	60	-	-	-	-	655	-	1,238
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	482
516	191	-	-	-	429	-	-	-	-	746	-	2,220
5	250	-	-	-	220	-	-	-	-	-	-	5,464
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	220	-	-	-	-	-	-	220
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
5	250	-	-	-	-	-	-	-	-	-	-	5,245
176	674	-	-	-	60	-	-	-	-	1,160	-	2,378
-	611	-	-	-	3	-	-	-	-	630	-	1,257
0	62	-	-	-	33	-	-	-	-	530	-	848
2	0	-	-	-	-	-	-	-	-	-	-	30
174	1	-	-	-	24	-	-	-	-	-	-	243
-	-	-	-	284	-	-	-	-	-	-	-	284
-	-	-	-	-	3,321	1,637	-	7	200	-	-	10,876
18	134	-	-	120	-	-	-	-	0	-	-	7,510
-1,325	-19	-	-	-15	-	-	-	-	-	-	-	-4,080
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17	-63	-	-	-39	-	-	-	-	-	-	-	-1,046
-1,290	52	-	-	66	3,321	1,637	-	7	200	-	-	13,260
-	768	-	-	15	-	-	-	-	-	-	-	66
2,429	234	149	-	180	-2,040	-1,637	-	-7	-201	2,837	-	-2,506
-370	-	-	-	-	-1,969	-1,600	-	-	-	2,633	-	-1,683
-34	-	-30	-	-	-72	-37	-	-7	-151	203	-	-257
-	-	-	-	-	-	-	-	-	-	-	-	-275
2,833	234	179	-	180	-	-	-	-	-	-	-	-162
-	-	-	-	-	-	-	-	-	-	-	-	-78
-	-	-	-	-	-	-	-	-	-50	-	-	-50
-90	-0	-145	-	-3	-543	-	-	-	-	-274	-	-1,175
6	1	-4	-	-	-0	-	-	-	1	-0	-	1,358
1,054	1,055	-	-	257	737	-	-	-	-	2,563	-	11,002
794	202	-	-	-	594	-	-	-	-	1,397	-	4,162
-	-	-	-	-	-	-	-	-	-	-	-	107
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	426
794	202	-	-	-	594	-	-	-	-	1,397	-	3,630
18	169	-	-	-	130	-	-	-	-	-	-	4,382
-	-	-	-	-	-	-	-	-	-	-	-	183
-	169	-	-	-	130	-	-	-	-	-	-	4,180
-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	18
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
241	684	-	-	-	13	-	-	-	-	1,166	-	2,201
-	621	-	-	-	5	-	-	-	-	607	-	1,274
-	63	-	-	-	-	-	-	-	-	499	-	562
7	-	-	-	-	-	-	-	-	-	41	-	69
234	1	-	-	-	8	-	-	-	-	20	-	296
-	-	-	-	257	-	-	-	-	-	-	-	257

Major Energy Indicators of Peru

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	8,185	7,537	11,047	11,127	10,978	12,505	13,260	13,708
Indigenous Production	11,095	8,193	7,832	8,064	9,268	10,525	10,876	12,439
Import	195	1,668	5,397	6,515	7,042	7,973	7,510	6,803
Export	-3,191	-2,267	-2,094	-3,677	-3,562	-4,225	-4,080	-4,378
Final Energy Consumption	6,214	6,208	9,200	8,971	8,972	9,841	11,002	12,067
Industry	2,224	1,958	3,336	3,454	3,615	4,000	4,162	3,941
Transport	2,260	2,499	3,386	3,491	3,424	3,591	4,382	5,464
Residential	-	-	-	1,213	1,266	1,148	1,274	1,257
Commerce & Public Services	-	-	-	436	401	657	562	848
Others	1,730	1,751	2,478	377	266	444	623	557
Coal, Coal Products								
Primary Energy Supply	142	145	630	928	784	1,018	923	829
Indigenous Production	29	68	12	30	75	78	99	225
Import	124	71	588	807	712	869	648	553
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-330	-382	-388	-329	-258
Power Generation	-	-	-99	-230	-233	-242	-251	-258
Final Energy Consumption	53	100	430	591	397	613	579	580
Industry	53	93	430	591	397	613	579	580
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	7	0	0	0	0	-	-
Crude Oil								
Primary Energy Supply	7,532	7,149	7,268	8,258	9,342	9,694	9,531	10,792
Indigenous Production	9,869	6,493	4,829	4,074	5,456	5,386	5,611	6,733
Import	-	888	3,090	4,698	5,330	5,805	4,979	5,024
Export	-2,383	-150	-687	-609	-1,256	-1,442	-925	-1,011
Transformation Sector	-	-	-	-7,782	-8,701	-9,098	-9,146	-9,571
Petroleum Refineries	-7,379	-7,432	-7,740	-7,782	-8,701	-9,098	-8,871	-9,571
Petroleum Products								
Primary Energy Supply	-686	-1,389	158	-2,019	-2,885	-3,268	-2,360	-3,437
Import	71	709	1,720	1,010	1,000	1,299	1,882	1,176
Export	-808	-2,117	-1,407	-3,068	-2,306	-2,783	-3,155	-3,362
Transformation Sector	-	-	-	7,365	7,805	8,218	8,018	8,826
Power Generation	-857	-760	-686	-608	-471	-367	-691	-512
Petroleum Refineries	7,268	7,449	7,763	7,973	8,277	8,584	8,708	9,338
Final Energy Consumption	5,332	5,020	7,225	6,299	6,202	6,371	7,123	8,157
Industry	1,669	1,210	2,021	1,609	1,787	1,665	1,591	1,470
Transport	2,260	2,499	3,386	3,491	3,417	3,545	4,252	5,245
Residential	-	-	-	609	587	593	663	623
Commerce & Public Services	-	-	-	258	195	197	63	286
Others	1,403	1,311	1,818	331	215	371	554	533
Natural Gas								
Primary Energy Supply	594	757	1,547	2,221	1,859	2,597	3,321	3,510
Indigenous Production	594	757	1,547	2,221	1,859	2,597	3,321	3,510
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-1,558	-1,148	-1,624	-2,040	-2,098
Power Generation	-55	-75	-226	-1,263	-1,043	-1,624	-2,040	-2,098
Final Energy Consumption	80	74	1	179	334	535	737	769
Industry	41	28	-	179	321	454	594	489
Transport	-	-	-	0	7	46	130	220
Residential	-	-	-	0	1	1	5	3
Commerce & Public Services	-	-	-	-	6	13	-	33
Others	39	46	1	-	0	22	8	24
Electricity								
Power Generation	863	1,132	1,713	2,194	2,354	2,582	2,837	2,841
Thermal	260	257	322	534	564	753	1,041	967
Hydro	603	875	1,391	1,546	1,685	1,685	1,637	1,708
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	114	105	144	158	165
Final Energy Consumption	749	1,014	1,490	1,900	2,038	2,321	2,563	2,561
Industry	461	627	884	1,075	1,110	1,269	1,397	1,401
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	603	678	554	607	630
Commerce & Public Services	-	-	-	177	199	447	499	530
Others	288	387	606	46	51	51	61	-

Major Economic Indicators of Peru

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	17.33	21.78	26.00	27.84	28.18	28.51	28.84	29.16
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	39.13	36.12	53.34	65.49	70.56	76.84	84.37	85.10
Real Term (Billions of 2000 Price and 2000 PPP)	93.21	86.05	127.07	156.02	168.09	183.06	201.01	202.74
Nominal (Billions of Current USD)	20.66	28.97	53.34	79.39	92.32	107.26	126.89	126.95
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	2,258	1,659	2,051	2,353	2,504	2,695	2,926	2,918
Real Term (2000 Price and 2000 PPP)	5,379	3,952	4,886	5,605	5,966	6,421	6,971	6,952
Nominal (Current USD)	1,192	1,330	2,051	2,852	3,277	3,763	4,400	4,353
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	0.00	5.44	186.14	261.65	302.26	335.53	371.07	382.32
Household Final Consumption Expenditure, etc.	0.00	4.01	132.46	173.05	186.64	206.35	237.60	249.89
General Government Final Consumption Expenditure	0.00	0.43	19.72	26.30	28.81	30.71	33.78	39.45
Gross Fixed Capital Formation	0.00	0.88	37.61	47.97	58.39	72.76	98.49	94.22
Stock Change	0.00	0.02	-0.08	-1.16	2.19	4.34	0.72	-6.02
Exports of Goods and Services	0.00	0.86	29.79	65.65	86.23	96.92	102.30	92.46
Imports of Goods and Services	0.00	0.75	33.80	50.15	60.01	75.21	100.02	77.43
Real GDP & its Components (Billions of 1994 PEN) *1								
Gross Domestic Product	88.80	81.98	121.06	148.64	160.15	174.41	191.51	193.16
Household Final Consumption Expenditure, etc.	64.02	60.90	86.20	102.86	109.48	118.62	129.10	132.01
General Government Final Consumption Expenditure	7.19	7.38	11.56	13.53	14.56	15.22	15.82	18.06
Gross Fixed Capital Formation	16.36	13.72	23.74	27.70	32.91	40.59	51.50	49.09
Stock Change	3.49	0.21	-0.05	-0.67	1.27	2.50	2.28	-3.35
Exports of Goods and Services	9.03	9.26	20.08	32.51	32.77	34.82	37.65	36.73
Imports of Goods and Services	11.28	9.50	20.48	27.28	30.85	37.42	44.88	39.55
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	6.3	8.5	9.4	8.8	8.8	8.4	8.2	8.2
Industry	26.4	25.9	27.5	29.0	28.8	29.2	29.2	28.3
Services, etc.	57.6	56.4	53.5	52.4	52.6	52.9	52.8	53.9
Manufacturing Production Index (2005=100) *2	70.6	55.2	78.7	100.0	107.5	119.4	130.2	120.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.898	3.230	7.028	17.368	23.830	27.882	31.529	26.885
Imports, c.i.f.	2.573	2.634	7.415	12.502	15.312	20.464	29.982	21.706
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.826	0.399	-0.403	5.286	8.986	8.287	3.090	5.873
Current Account	-0.101	-1.419	-1.546	1.148	2.872	1.363	-4.723	0.247
Overall Balance	0.279	-2.141	-0.130	1.411	3.221	10.344	3.457	1.902
Foreign Exchange Rate (PEN/USD) *1	0.0000	0.1879	3.4900	3.2958	3.2740	3.1280	2.9244	3.0115
Purchasing Power Parity (PEN/International Dollar) *1	0.0000	0.0777	1.4649	1.4865	1.5436	1.5285	1.5067	1.5250
Price Indices								
GDP Deflator (1994=100) *3	0.0	6.6	153.8	176.0	188.7	192.4	193.8	197.9
Wholesale Price Index (2005=100) *2	0.0	5.4	91.1	100.0	103.2	105.8	115.2	113.2
Consumer Price Index (2005=100) *2	0.0	3.6	90.9	100.0	102.0	103.8	109.8	113.0
Growth Rate (%) *3								
Real GDP	3.08	-5.14	2.95	6.83	7.74	8.91	9.80	0.86
Population	2.60	2.10	1.55	1.27	1.22	1.18	1.15	1.14
Price								
Wholesale Price Index	N.A.	6,737.4	4.3	2.3	3.2	2.5	8.9	-1.8
Consumer Price Index	59.1	7,481.7	3.8	1.6	2.0	1.8	5.8	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"

: 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				
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene
2009								
Indigenous Production	2,474	-	962	-	-	-	-	-
Import	3,888	-	6,772	7,261	1,631	-	503	61
Export	-1,052	-	-257	-492	-77	-126	-	-
International Marine Bunkers	-	-	-	-198	-	-	-	-
International Aviation Bunkers	-	-	-	-976	-	-	-976	-
Stock Changes	-	-	428	-159	-65	12	-	-51
Total Primary Energy Supply	5,310	-	7,905	5,436	1,488	-115	-473	10
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-4,442	-	-6,827	5,739	1,206	298	667	127
Main Activity Producer	-4,442	-	-	-1,178	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-6,940	6,917	1,206	298	667	127
Coal Transformation	-	-	-	-	-	-	-	-
Other Transformation	-	-	114	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-
Discrepancy	757	-	-1,079	198	274	-183	32	22
Total Final Energy Consumption	1,624	-	-	11,373	2,968	-	225	159
Industry Sector	1,624	-	-	1,340	-	-	-	20
Iron and Steel	76	-	-	140	-	-	-	0
Chemical & Petrochemical	17	-	-	188	-	-	-	18
Non-metallic Minerals	1,293	-	-	152	-	-	-	0
Other Industries	238	-	-	860	-	-	-	2
Transport Sector	-	-	-	7,952	2,964	-	225	-
Domestic Air Transport	-	-	-	229	4	-	225	-
Road	-	-	-	7,116	2,911	-	-	-
Rail	-	-	-	0	-	-	-	0
Inland Waterways	-	-	-	607	49	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-
Other Sector	-	-	-	1,969	4	-	-	139
Residential	-	-	-	938	-	-	-	138
Commerce and Public Services	-	-	-	826	-	-	-	-
Agriculture	-	-	-	22	0	-	-	0
Non-specified Others	-	-	-	183	4	-	-	1
Non-energy	-	-	-	112	-	-	-	-
2008								
Indigenous Production	1,905	-	715	-	-	-	-	-
Import	4,791	-	9,283	6,097	1,345	-	416	60
Export	-472	-	-653	-2,369	-148	-140	-10	-
International Marine Bunkers	-	-	-	-227	-	-	-	-
International Aviation Bunkers	-	-	-	-953	-	-	-953	-
Stock Changes	-	-	-347	586	194	-11	-	107
Total Primary Energy Supply	6,225	-	8,997	3,134	1,391	-152	-547	167
Transfers	-	-	-374	373	-	-	-	-
Total Transformation Sector	-4,558	-	-8,718	7,509	1,611	19	707	131
Main Activity Producer	-4,558	-	-	-1,083	-	-	-	-
Autoproducers	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-8,718	8,591	1,611	19	707	131
Coal Transformation	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-373	-	-	-	-
Discrepancy	131	-	95	91	-257	133	11	-137
Total Final Energy Consumption	1,798	-	-	10,733	2,744	-	171	161
Industry Sector	1,798	-	-	1,539	0	-	-	8
Iron and Steel	4	-	-	256	-	-	-	1
Chemical & Petrochemical	17	-	-	189	-	-	-	4
Non-metallic Minerals	1,742	-	-	225	-	-	-	0
Other Industries	35	-	-	869	0	-	-	4
Transport Sector	-	-	-	7,437	2,743	-	171	-
Domestic Air Transport	-	-	-	175	4	-	171	-
Road	-	-	-	6,726	2,686	-	-	-
Rail	-	-	-	0	-	-	-	0
Inland Waterways	-	-	-	537	53	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-
Other Sector	-	-	-	1,667	2	-	-	153
Residential	-	-	-	894	-	-	-	152
Commerce and Public Services	-	-	-	519	-	-	-	-
Agriculture	-	-	-	38	0	-	-	0
Non-specified Others	-	-	-	216	2	-	-	0
Non-energy	-	-	-	89	-	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	3,214	842	-	8,884	6,896	-	-	23,271
799	887	-	-	169	-	-	-	-	44	-	-	17,965
-255	-	-	-	-	-	-	-	-	-	-	-	-1,802
-164	-	-	-	-	-	-	-	-	-	-	-	-198
-	-	-	-	-	-	-	-	-	-	-	-	-976
65	-21	-	-	-	-	-	-	-	-	-	-	269
445	866	-	-	169	3,214	842	-	8,884	6,939	-	-	38,530
-	-	-	-	-	-	-	-	-	-	-	-	-
639	303	-	-	275	-2,966	-842	-	-8,884	-1,461	5,325	-	-14,358
-917	-	-	-	-	-2,966	-842	-	-8,884	-6	5,325	-	-12,994
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,556	303	-	-	275	-	-	-	-	-	-	-	-24
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,455	-	-	-1,341
-	-	-	-	-	-177	-	-	-	-	-303	-	-480
107	-13	-	-	-332	-0	-	-	-	3	-645	-	-766
1,190	1,157	-	-	112	70	-	-	-	5,481	4,377	-	22,926
779	75	-	-	-	70	-	-	-	1,322	1,469	-	5,826
84	14	-	-	-	-	-	-	-	-	300	-	516
99	22	-	-	-	-	-	-	-	-	89	-	294
114	11	-	-	-	-	-	-	-	-	112	-	1,557
482	27	-	-	-	70	-	-	-	1,322	969	-	3,459
230	84	-	-	-	0	-	-	-	-	10	-	7,962
-	-	-	-	-	-	-	-	-	-	-	-	229
-	84	-	-	-	0	-	-	-	-	-	-	7,117
-	-	-	-	-	-	-	-	-	-	10	-	10
230	-	-	-	-	-	-	-	-	-	-	-	607
-	-	-	-	-	-	-	-	-	-	-	-	-
182	998	-	-	-	-	-	-	-	4,159	2,898	-	9,026
-	799	-	-	-	-	-	-	-	3,835	1,508	-	6,280
174	199	-	-	-	-	-	-	-	324	1,269	-	2,419
3	-	-	-	-	-	-	-	-	-	107	-	129
6	-	-	-	-	-	-	-	-	-	15	-	197
-	-	-	-	112	-	-	-	-	-	-	-	112
-	-	-	-	-	3,192	846	-	9,227	6,919	-	-	22,805
1,026	743	-	-	98	-	-	-	-	9	-	-	20,180
-1,096	-9	-	-	-870	-	-	-	-	-	-	-	-3,494
-182	-	-	-	-	-	-	-	-	-	-	-	-227
-	-	-	-	-	-	-	-	-	-	-	-	-953
78	24	-	-	-18	-	-	-	-	-	-	-	239
-174	758	-	-	-791	3,192	846	-	9,227	6,928	-	-	38,549
-	-	-	-	373	-	-	-	-	-	-	-	-2
1,380	328	-	-	222	-2,854	-846	-	-9,227	-1,331	5,231	-	-14,796
-927	-	-	-	-	-2,854	-	-	-	-	5,231	-	-3,264
-	-	-	-	-	-	-846	-	-9,227	-	-	-	-10,073
-	-	-	-	-	-	-	-	-	-	-	-	-
2,307	328	-	-	222	-	-	-	-	-	-	-	-127
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,331	-	-	-1,331
-	-	-	-	-373	-164	-	-	-	-	-999	-	-1,535
30	-24	-	-	659	-104	-	-	-	-5	-	-	208
1,235	1,061	-	-	89	70	-	-	-	5,592	4,232	-	22,425
872	89	-	-	-	70	-	-	-	1,287	1,465	-	6,158
150	19	-	-	-	-	-	-	-	-	299	-	558
125	12	-	-	-	-	-	-	-	-	85	-	291
167	23	-	-	-	-	-	-	-	-	116	-	2,083
429	35	-	-	-	70	-	-	-	1,287	966	-	3,226
178	68	-	-	-	0	-	-	-	-	10	-	7,447
-	-	-	-	-	-	-	-	-	-	-	-	175
-	68	-	-	-	0	-	-	-	-	-	-	6,726
-	-	-	-	-	-	-	-	-	-	10	-	10
178	-	-	-	-	-	-	-	-	-	-	-	537
-	-	-	-	-	-	-	-	-	-	-	-	-
185	904	-	-	-	-	-	-	-	4,306	2,757	-	8,730
-	742	-	-	-	-	-	-	-	3,985	1,431	-	6,311
170	162	-	-	-	-	-	-	-	320	1,216	-	2,055
6	-	-	-	-	-	-	-	-	-	97	-	135
8	-	-	-	-	-	-	-	-	-0	13	-	229
-	-	-	-	89	-	-	-	-	-	-	-	89

Major Energy Indicators of Philippines

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	12,441	28,309	38,969	37,805	37,446	38,235	38,549	38,530
Indigenous Production	2,703	17,222	19,552	21,381	21,378	22,162	22,805	23,271
Import	10,525	12,555	21,760	18,943	19,385	20,000	20,180	17,965
Export	-133	-641	-1,753	-1,954	-2,365	-2,943	-3,494	-1,802
Final Energy Consumption	9,041	19,474	23,502	22,371	21,713	22,401	22,425	22,926
Industry	4,666	4,682	5,352	5,355	5,473	6,279	6,158	5,826
Transport	2,289	4,290	7,695	7,867	7,314	7,172	7,447	7,962
Residential	-	9,164	8,172	6,820	6,526	6,340	6,311	6,280
Commerce & Public Services	-	841	1,726	1,962	2,053	2,105	2,055	2,419
Others	2,085	497	557	367	348	506	453	438
Coal, Coal Products								
Primary Energy Supply	269	1,358	4,539	5,230	5,316	6,292	6,225	5,310
Indigenous Production	151	649	715	1,520	1,243	1,791	1,905	2,474
Import	118	709	3,824	3,710	4,073	4,079	4,791	3,888
Export	-	-	-	-	-	422	-472	-1,052
Transformation Sector	-	-559	-3,784	-4,134	-3,714	-3,972	-4,558	-4,442
Power Generation	-47	-559	-3,784	-4,134	-3,714	-3,972	-4,558	-4,442
Final Energy Consumption	82	696	840	1,184	1,324	1,419	1,798	1,624
Industry	82	696	840	1,184	1,324	1,419	1,798	1,624
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	9,146	10,825	15,121	10,493	10,298	10,683	8,997	7,905
Indigenous Production	462	229	55	765	702	827	715	962
Import	8,684	10,597	15,033	10,301	10,354	10,331	9,283	6,772
Export	-	-	-	-738	-678	-801	-653	-257
Transformation Sector	-	-10,242	-14,721	-9,958	-9,897	-10,045	-8,718	-6,827
Petroleum Refineries	-8,809	-10,242	-14,721	-9,958	-9,897	-10,045	-8,718	-6,940
Petroleum Products								
Primary Energy Supply	937	-220	527	2,984	2,397	1,715	3,134	5,436
Import	1,723	1,249	2,903	4,931	4,957	5,588	6,097	7,261
Export	-133	-641	-1,753	-1,216	-1,687	-2,563	-2,369	-492
Transformation Sector	-	7,939	12,333	8,126	8,409	8,445	7,509	5,739
Power Generation	-2,547	-2,135	-1,925	-1,411	-1,032	-1,045	-1,083	-1,178
Petroleum Refineries	8,069	10,074	14,258	9,537	9,441	9,490	8,591	6,917
Final Energy Consumption	7,671	7,833	12,592	11,374	10,616	11,082	10,733	11,373
Industry	3,878	2,225	2,405	1,669	1,547	2,136	1,539	1,340
Transport	2,289	4,290	7,690	7,860	7,305	7,163	7,437	7,952
Residential	-	766	1,411	1,000	892	805	894	938
Commerce & Public Services	-	98	554	520	565	515	519	826
Others	1,504	454	532	325	307	463	343	316
Natural Gas								
Primary Energy Supply	-	-	9	2,701	2,530	3,033	3,192	3,214
Indigenous Production	-	-	9	2,701	2,530	3,033	3,192	3,214
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-9	-2,492	-2,311	-2,720	-2,854	-2,966
Power Generation	-	-	-9	-2,492	-2,311	-2,720	-2,854	-2,966
Final Energy Consumption	-	-	-	12	53	77	70	70
Industry	-	-	-	12	53	77	70	70
Transport	-	-	-	0	-	-	0	0
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	1,538	2,264	3,895	4,865	4,883	5,127	5,231	5,325
Thermal	1,056	1,079	2,224	3,290	3,124	3,507	3,457	3,892
Hydro	303	521	671	721	855	736	846	842
Nuclear	-	-	-	-	-	-	-	-
Others	179	664	1,000	853	905	884	928	591
Final Energy Consumption	1,287	1,824	3,144	3,884	3,928	4,129	4,232	4,377
Industry	706	855	1,135	1,325	1,344	1,397	1,465	1,469
Transport	-	-	5	8	8	9	10	10
Residential	-	482	1,109	1,379	1,361	1,408	1,431	1,508
Commerce & Public Services	-	444	870	1,130	1,173	1,272	1,216	1,269
Others	581	43	25	42	41	42	110	121

Major Economic Indicators of Philippines

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	48.11	62.43	77.69	85.50	87.10	88.72	90.35	91.98
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	51.69	61.10	81.03	101.40	106.72	113.78	118.51	119.87
Real Term (Billions of 2000 Price and 2000 PPP)	117.93	139.38	184.84	231.33	243.46	259.57	270.35	273.45
Nominal (Billions of Current USD)	32.45	44.31	81.03	103.07	122.21	149.36	174.20	168.33
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	1,074	979	1,043	1,186	1,225	1,283	1,312	1,303
Real Term (2000 Price and 2000 PPP)	2,451	2,233	2,379	2,706	2,795	2,926	2,992	2,973
Nominal (Current USD)	674	710	1,043	1,206	1,403	1,684	1,928	1,830
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	243.75	1,077.24	3,580.71	5,677.75	6,271.16	6,892.72	7,720.90	8,026.14
Household Final Consumption Expenditure, etc.	156.82	767.06	2,335.54	3,772.25	4,229.50	4,611.88	5,281.07	5,674.97
General Government Final Consumption Expenditure	22.10	108.84	438.86	527.05	589.93	653.76	697.65	809.69
Gross Fixed Capital Formation	66.35	248.95	710.49	783.40	846.65	978.28	1,090.51	1,130.07
Stock Change	4.55	11.21	-0.42	10.59	28.70	44.42	45.63	-5.43
Exports of Goods and Services	57.46	296.42	1,858.58	2,589.74	2,850.90	2,828.95	2,736.31	2,431.37
Imports of Goods and Services	69.40	358.55	1,794.72	2,816.24	2,893.20	2,810.32	2,842.00	2,364.76
Real GDP & its Components (Billions of 1985 PHP) *1								
Gross Domestic Product	2,284.50	2,700.07	3,580.71	4,481.28	4,716.23	5,028.29	5,237.10	5,297.24
Household Final Consumption Expenditure, etc.	397.40	531.77	752.07	947.51	999.73	1,058.18	1,107.57	1,152.66
General Government Final Consumption Expenditure	50.18	57.04	79.65	77.20	85.21	90.81	91.21	101.16
Gross Fixed Capital Formation	150.72	165.36	240.06	209.33	217.49	241.29	247.86	246.99
Stock Change	10.35	7.59	-1.00	4.14	6.80	10.71	9.90	-3.94
Exports of Goods and Services	154.75	217.87	445.67	565.74	641.46	676.10	663.32	574.28
Imports of Goods and Services	179.48	269.15	490.77	643.84	655.71	628.66	633.77	621.54
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	6.3	6.0	5.4	5.2	5.1	5.0	5.0	4.9
Industry	10.8	9.5	9.6	8.9	8.8	8.8	8.9	8.7
Services, etc.	9.6	11.3	12.2	13.0	13.2	13.4	13.2	13.5
Manufacturing Production Index (2005=100) *2	N.A.	23.4	68.9	100.0	101.6	98.2	102.5	89.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.741	8.117	39.783	41.255	47.410	50.466	49.078	38.436
Imports, c.i.f.	8.295	13.042	37.027	49.487	54.078	57.996	60.420	45.878
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.939	-4.020	-5.971	-7.773	-6.732	-8.391	-12.885	-8.842
Current Account	-1.917	-2.695	-2.228	1.980	5.341	7.112	3.627	9.358
Overall Balance	0.891	-0.045	-0.477	1.662	5.242	8.707	0.097	4.411
Foreign Exchange Rate (PHP/USD) *1	7.5114	24.3105	44.1923	55.0855	51.3143	46.1484	44.3233	47.6797
Purchasing Power Parity (PHP/International Dollar) *1	3.8404	9.4934	19.3715	21.7549	22.1123	22.1444	23.3084	23.7356
Price Indices								
GDP Deflator (2000=100) *3	10.7	39.9	100.0	126.7	133.0	137.1	147.4	151.5
Wholesale Price Index (2005=100) *2	N.A.	N.A.	64.1	100.0	111.1	110.4	114.9	113.3
Consumer Price Index (2005=100) *2	9.9	35.5	77.0	100.0	106.2	109.2	119.4	123.3
Growth Rate (%) *3								
Real GDP	5.15	3.04	4.41	4.78	5.24	6.62	4.15	1.15
Population	2.74	2.46	2.04	1.89	1.88	1.86	1.84	1.81
Price								
Wholesale Price Index	N.A.	N.A.	12.5	9.1	11.1	-0.7	4.1	-1.4
Consumer Price Index	18.2	12.7	4.0	7.6	6.2	2.8	9.3	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"

: 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
2009								
Indigenous Production	153,640	-	493,645	-	-	-	-	-
Import	14,379	152	1,793	808	234	-	-	261
Export	-67,384	-1,288	-250,143	-101,096	-4,731	-	-	-40,450
International Marine Bunkers	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-5,858	-	-	-5,858	-
Stock Changes	-4,309	81	-1,635	451	-284	-	-	137
Total Primary Energy Supply	96,326	-1,055	243,659	-105,695	-4,780	-	-5,858	-40,051
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-100,719	15,060	-247,929	225,152	37,654	12,587	10,727	66,444
Main Activity Producer	-51,348	-	-	-4,200	-	-	-	-651
Autoproducers	-15,582	-4,790	-752	-6,924	-	-	-	-1,281
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-247,177	236,275	37,654	12,587	10,727	68,376
Coal Transformation	-33,788	19,850	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-575	-1,436	-3,090	-12,078	-	-	-	-2,043
Discrepancy	10,670	-3	7,401	-1,180	-	-	-	19
Total Final Energy Consumption	5,702	12,566	41	106,199	32,874	12,587	4,869	24,368
Industry Sector	1,189	12,522	13	15,512	-	-	-	2,323
Iron and Steel	21	11,617	1	473	-	-	-	136
Chemical & Petrochemical	84	496	-	10,803	-	-	-	33
Non-metallic Minerals	646	170	-	266	-	-	-	159
Other Industries	438	239	12	3,971	-	-	-	1,995
Transport Sector	-	-	-	55,017	32,874	-	4,869	16,444
Domestic Air Transport	-	-	-	4,869	-	-	4,869	-
Road	-	-	-	46,646	32,874	-	-	13,424
Rail	-	-	-	1,788	-	-	-	1,717
Inland Waterways	-	-	-	1,053	-	-	-	776
Pipeline Transport	-	-	-	244	-	-	-	233
Non-specified Transport	-	-	-	416	-	-	-	294
Other Sector	4,513	45	28	9,923	-	-	-	5,602
Residential	1,911	0	-	4,484	-	-	-	1,246
Commerce and Public Services	2,506	44	-	1,598	-	-	-	1,089
Agriculture	93	-	13	3,037	-	-	-	2,949
Non-specified Others	3	-	15	803	-	-	-	317
Non-energy	-	-	-	25,747	-	12,587	-	-
2008								
Indigenous Production	167,181	-	488,534	-	-	-	-	-
Import	18,725	114	2,468	980	253	-	-	251
Export	-62,243	-2,098	-244,313	-97,252	-4,689	-	-	-38,207
International Marine Bunkers	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-5,851	-	-	-5,851	-
Stock Changes	-4,568	-41	-3,504	381	201	-	-	-234
Total Primary Energy Supply	119,095	-2,026	243,184	-101,742	-4,234	-	-5,851	-38,189
Transfers	-	-	-	-	-	-	-	-
Total Transformation Sector	-110,478	12,485	-247,981	223,034	37,457	12,594	11,702	76
Main Activity Producer	-61,197	-	-	-4,083	-	-	-	-661
Autoproducers	-18,247	-4,699	-732	-6,864	-	-	-	-1,424
Gas Processing	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-247,250	233,982	37,457	12,594	11,702	76
Coal Transformation	-31,034	17,184	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-
Loss & Own Use	-658	-1,516	-2,966	-12,865	-	-	-	-2,734
Discrepancy	-271	4	7,819	-1,853	-	-	-	-0
Total Final Energy Consumption	7,687	8,947	56	106,575	33,222	12,594	5,851	76
Industry Sector	1,476	8,904	20	13,036	-	-	-	2,624
Iron and Steel	10	7,794	1	800	-	-	-	141
Chemical & Petrochemical	111	455	-	7,666	-	-	-	34
Non-metallic Minerals	887	235	-	280	-	-	-	80
Other Industries	469	420	19	4,290	-	-	-	2,369
Transport Sector	-	-	17	54,662	33,222	-	5,851	14,713
Domestic Air Transport	-	-	-	5,890	39	-	5,851	-
Road	-	-	-	45,057	33,183	-	-	11,486
Rail	-	-	-	1,959	-	-	-	1,879
Inland Waterways	-	-	-	1,043	-	-	-	746
Pipeline Transport	-	-	17	233	-	-	-	233
Non-specified Transport	-	-	-	481	-	-	-	368
Other Sector	6,211	43	19	14,930	-	-	76	9,705
Residential	3,013	1	-	7,588	-	-	76	3,487
Commerce and Public Services	3,109	42	-	2,093	-	-	-	1,521
Agriculture	85	-	19	4,459	-	-	-	4,381
Non-specified Others	3	-	-	790	-	-	-	315
Non-energy	-	-	-	23,947	-	12,594	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	469,695	15,146	42,652	399	6,410	-	-	1,181,588
305	8	-	-	-	6,677	-	-	-	-	264	-	24,072
-53,717	-2,198	-	-	-	-131,248	-	-	-	-	-1,541	-	-552,699
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-5,858
625	-27	-	-	-	5,270	-	-	-	-43	-	-	-186
-52,788	-2,218	-	-	-	350,395	15,146	42,652	399	6,367	-1,278	-	646,917
-	-	-	-	-	-	-	-	-	-	-	-	-
57,251	18,802	14,306	-	7,381	-205,620	-15,146	-42,652	-399	-3,930	85,310	135,035	-155,838
-3,549	-	-	-	-	-128,839	-15,066	-42,652	-399	-	80,807	47,589	-114,108
-5,642	-	-	-	-	-75,391	-80	-	-	-3,930	4,503	87,446	-15,499
-	-	-	-	-	-	-	-	-	-	-	-	-
66,442	18,802	14,306	-	7,381	-	-	-	-	-	-	-	-10,902
-	-	-	-	-	-	-	-	-	-	-	-	-13,938
-	-	-	-	-	-1,390	-	-	-	-	-	-	-1,390
-1,761	-	-8,274	-	-	-16,234	-	-	-	-140	-24,997	-26,514	-85,064
-0	-321	-878	-	-	2	-	0	-	-1	-20	0	16,869
2,703	16,263	5,154	-	7,381	128,542	-	-	-	2,296	59,016	108,521	422,883
1,353	5,726	5,154	-	957	29,407	-	-	-	367	26,782	38,752	124,544
328	9	-	-	-	12,041	-	-	-	59	4,683	7,315	36,210
111	5,510	5,149	-	-	2,577	-	-	-	30	3,739	10,391	28,120
80	22	5	-	-	10,114	-	-	-	7	1,380	1,952	14,535
835	185	-	-	957	4,675	-	-	-	271	16,979	19,094	45,679
460	369	-	-	-	27,617	-	-	-	-	6,984	-	89,617
-	-	-	-	-	-	-	-	-	-	-	-	4,869
-	347	-	-	-	101	-	-	-	-	-	-	46,747
71	1	-	-	-	-	-	-	-	-	3,909	-	5,698
277	-	-	-	-	-	-	-	-	-	-	-	1,053
-	11	-	-	-	27,515	-	-	-	-	2,077	-	29,836
113	10	-	-	-	-	-	-	-	-	998	-	1,414
889	3,432	-	-	-	45,219	-	-	-	1,929	25,251	69,769	156,676
112	3,127	-	-	-	41,682	-	-	-	889	10,647	49,810	109,424
284	225	-	-	-	2,652	-	-	-	719	13,281	17,221	38,021
8	80	-	-	-	884	-	-	-	320	1,299	2,697	8,343
486	-	-	-	-	2	-	-	-	0	23	41	888
-	6,736	-	-	6,425	26,299	-	-	-	-	-	-	52,046
-	-	-	-	-	534,798	14,337	42,522	400	6,168	-	-	1,253,940
315	160	-	-	-	6,394	-	-	-	-	267	-	28,948
-53,004	-1,353	-	-	-	-157,831	-	-	-	-	-1,783	-	-565,522
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-5,851
502	-88	-	-	-	-17,084	-	-	-	64	-	-	-24,753
-52,187	-1,280	-	-	-	366,277	14,337	42,522	400	6,232	-1,516	-	686,764
-	-	-	-	-	-	-	-	-	-	-	-	-
57,133	12,553	14,321	-	9,234	-213,702	-14,337	-42,522	-400	-3,818	89,473	141,553	-166,694
-3,422	-	-	-	-	-135,794	-14,214	-42,522	-400	-	84,636	49,980	-123,594
-5,441	-	-	-	-	-76,356	-124	-	-	-3,818	4,836	91,573	-14,431
-	-	-	-	-	-	-	-	-	-	-	-	-
65,995	12,553	14,321	-	9,234	-	-	-	-	-	-	-	-13,268
-	-	-	-	-	-	-	-	-	-	-	-	-13,849
-	-	-	-	-	-1,552	-	-	-	-	-	-	-1,552
-1,850	-	-8,281	-	-	-18,594	-	-	-	-117	-25,566	-27,919	-90,200
-0	-825	-1,027	-	-	-4	-	-	-	-0	-1	-0	5,694
3,096	10,447	5,013	-	9,234	133,977	-	-	-	2,297	62,390	113,635	435,563
1,818	2,686	4,989	-	919	30,136	-	-	-	269	30,967	40,578	125,388
646	12	1	-	-	13,121	-	-	-	38	5,259	7,660	34,682
157	2,488	4,988	-	-	1,721	-	-	-	7	3,775	10,880	24,616
178	22	-	-	-	10,874	-	-	-	1	1,707	2,044	16,028
838	164	-	-	919	4,420	-	-	-	223	20,226	19,994	50,061
488	388	-	-	-	35,418	-	-	-	-	7,146	-	97,243
-	-	-	-	-	-	-	-	-	-	-	-	5,890
-	388	-	-	-	143	-	-	-	-	-	-	45,200
79	-	-	-	-	-	-	-	-	-	3,814	-	5,773
296	-	-	-	-	-	-	-	-	-	-	-	1,043
-	-	-	-	-	35,275	-	-	-	-	2,349	-	37,874
113	-	-	-	-	-	-	-	-	-	983	-	1,463
790	4,336	24	-	-	44,667	-	-	-	2,028	24,276	73,056	165,230
-	4,025	-	-	-	39,911	-	-	-	1,223	10,074	52,158	113,968
271	277	24	-	-	3,919	-	-	-	572	12,844	18,032	40,612
44	34	-	-	-	837	-	-	-	232	1,335	2,824	9,790
475	-	-	-	-	-	-	-	-	1	23	42	860
-	3,038	-	-	8,315	23,756	-	-	-	-	-	-	47,702

Major Energy Indicators of Russia

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	-	877,804	619,159	651,723	670,652	672,572	686,764	646,917
Indigenous Production	-	1,292,815	977,902	1,203,266	1,226,995	1,239,119	1,253,940	1,181,588
Import	-	120,460	32,884	23,182	24,186	23,432	28,948	24,072
Export	-	-533,033	-382,450	-562,478	-562,510	-575,766	-565,522	-552,699
Final Energy Consumption	-	625,047	418,764	412,403	425,098	428,306	435,563	422,883
Industry	-	208,693	129,459	124,153	129,868	125,990	125,388	124,544
Transport	-	115,870	74,478	88,569	91,534	92,511	97,243	89,617
Residential	-	83,506	140,269	110,564	115,047	112,452	113,968	109,424
Commerce & Public Services	-	36,278	22,640	34,727	34,718	39,275	40,612	38,021
Others	-	180,700	51,917	54,391	53,930	58,078	58,353	61,277
Coal, Coal Products								
Primary Energy Supply	-	191,071	119,969	112,637	115,726	110,959	117,069	95,271
Indigenous Production	-	192,401	128,535	157,426	159,343	162,959	167,181	153,640
Import	-	35,088	15,373	13,644	15,554	14,212	18,839	14,530
Export	-	-40,423	-25,477	-55,763	-59,848	-65,026	-64,341	-68,671
Transformation Sector	-	-129,024	-99,096	-98,233	-99,226	-93,472	-97,993	-85,658
Power Generation	-	-106,725	-82,408	-79,402	-83,950	-77,402	-84,143	-71,720
Final Energy Consumption	-	54,735	18,857	13,674	15,031	15,938	16,634	18,268
Industry	-	14,581	8,883	7,997	9,407	11,306	10,380	13,711
Transport	-	0	-	-	-	-	-	-
Residential	-	11,881	8,947	2,829	3,214	2,568	3,014	1,911
Commerce & Public Services	-	20,581	387	2,674	2,269	1,973	3,151	2,550
Others	-	7,692	638	175	140	91	88	96
Crude Oil								
Primary Energy Supply	-	321,940	183,808	216,841	228,630	232,178	243,184	243,659
Indigenous Production	-	526,257	323,259	468,711	478,134	490,041	488,534	493,645
Import	-	18,593	5,921	2,438	2,332	2,706	2,468	1,793
Export	-	-222,909	-145,136	-253,850	-249,687	-259,872	-244,313	-250,143
Transformation Sector	-	-347,337	-184,828	-220,362	-233,171	-232,573	-247,981	-247,929
Petroleum Refineries	-	-345,823	-183,762	-219,596	-232,392	-231,871	-247,250	-247,177
Petroleum Products								
Primary Energy Supply	-	-59,218	-57,674	-87,610	-94,797	-99,748	-101,742	-105,695
Import	-	7,329	307	27	44	37	980	808
Export	-	-64,254	-53,281	-83,506	-87,285	-94,273	-97,252	-101,096
Transformation Sector	-	209,090	158,502	194,063	204,821	214,955	223,034	225,152
Power Generation	-	-60,555	-21,358	-14,738	-14,942	-12,211	-10,947	-11,123
Petroleum Refineries	-	269,645	179,861	208,801	219,787	227,166	233,982	236,275
Final Energy Consumption	-	144,746	89,706	91,815	95,600	99,476	106,575	106,199
Industry	-	24,445	16,952	10,263	10,865	12,517	13,036	15,512
Transport	-	72,870	42,290	47,553	50,569	50,098	54,662	55,017
Residential	-	8,769	4,354	6,331	6,459	6,813	7,588	4,484
Commerce & Public Services	-	421	988	844	955	2,050	2,093	1,598
Others	-	38,241	25,121	26,825	26,752	27,998	29,196	29,588
Natural Gas								
Primary Energy Supply	-	367,391	319,008	349,670	358,707	366,066	366,277	350,395
Indigenous Production	-	516,822	470,740	515,842	525,874	521,998	534,798	469,695
Import	-	56,438	10,526	6,201	5,816	5,989	6,394	6,677
Export	-	-201,719	-156,592	-167,423	-163,889	-155,007	-157,831	-131,248
Transformation Sector	-	-227,750	-189,417	-205,838	-211,360	-215,481	-213,702	-205,620
Power Generation	-	-227,750	-186,415	-203,784	-209,712	-214,063	-212,150	-204,230
Final Energy Consumption	-	143,123	117,174	128,052	130,695	131,172	133,977	128,542
Industry	-	30,494	25,843	30,117	31,594	26,850	30,136	29,407
Transport	-	34,054	26,939	33,844	33,568	34,953	35,418	27,617
Residential	-	47,135	43,124	38,144	39,565	38,822	39,911	41,682
Commerce & Public Services	-	8,783	2,456	3,559	3,776	5,503	3,919	2,652
Others	-	22,659	18,812	22,387	22,193	25,045	24,592	27,185
Electricity								
Power Generation	-	93,065	75,488	81,965	85,638	87,319	89,473	85,310
Thermal	-	64,520	46,133	49,871	52,593	54,182	57,103	51,977
Hydro	-	14,269	14,222	15,016	15,074	15,392	14,337	15,146
Nuclear	-	10,287	11,363	12,989	13,597	13,910	14,174	14,217
Others	-	3,989	3,770	4,090	4,374	3,834	3,859	3,970
Final Energy Consumption	-	71,090	52,333	55,898	58,600	60,281	62,390	59,016
Industry	-	41,428	26,867	28,369	30,406	30,339	30,967	26,782
Transport	-	8,924	5,239	7,153	7,385	7,452	7,146	6,984
Residential	-	9,197	12,102	9,367	9,677	9,970	10,074	10,647
Commerce & Public Services	-	5,752	5,527	9,541	9,666	11,106	12,844	13,281
Others	-	5,789	2,598	1,468	1,466	1,415	1,358	1,322

Major Economic Indicators of Russia

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	139.01	148.29	146.30	143.15	142.50	142.10	141.95	141.85
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	N.A.	385.90	259.72	349.72	378.23	410.52	432.06	398.30
Real Term (Billions of 2000 Price and 2000 PPP)	N.A.	1,485.35	999.65	1,346.08	1,455.83	1,580.09	1,663.01	1,533.06
Nominal (Billions of Current USD)	N.A.	N.A.	259.72	764.02	989.93	1,299.70	1,660.85	1,221.99
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	N.A.	2,602	1,775	2,443	2,654	2,889	3,044	2,808
Real Term (2000 Price and 2000 PPP)	N.A.	10,016	6,833	9,403	10,216	11,120	11,715	10,808
Nominal (Current USD)	N.A.	N.A.	1,775	5,337	6,947	9,146	11,700	8,615
Nominal GDP & its Components (Billions of Current RUR) *1								
Gross Domestic Product	N.A.	0.64	7,305.60	21,609.77	26,917.20	33,247.51	41,276.85	38,786.37
Household Final Consumption Expenditure, etc.	N.A.	0.31	3,374.30	10,792.30	13,129.30	16,217.60	20,227.90	21,319.60
General Government Final Consumption Expenditure	N.A.	0.13	1,102.50	3,645.90	4,680.40	5,751.00	7,194.80	7,871.30
Gross Fixed Capital Formation	N.A.	0.18	1,232.00	3,836.90	4,980.60	6,980.40	9,181.90	8,384.10
Stock Change	N.A.	0.01	133.70	501.80	718.20	1,053.70	1,340.50	-1,061.50
Exports of Goods and Services	N.A.	0.12	3,218.90	7,607.30	9,079.30	10,028.80	12,922.40	10,844.00
Imports of Goods and Services	N.A.	0.12	1,755.80	4,648.30	5,653.40	7,162.20	9,111.00	7,964.00
Real GDP & its Components (Billions of 2000 RUR) *1								
Gross Domestic Product	N.A.	10,855.15	7,305.60	9,837.35	10,639.43	11,547.51	12,153.52	11,203.83
Household Final Consumption Expenditure, etc.	N.A.	3,644.80	3,374.30	5,381.22	6,029.51	6,885.00	7,621.30	7,038.17
General Government Final Consumption Expenditure	N.A.	1,466.92	1,102.50	1,189.60	1,216.96	1,249.82	1,284.81	1,310.51
Gross Fixed Capital Formation	N.A.	6,142.42	1,232.00	1,979.71	2,336.06	2,826.64	3,120.61	2,630.67
Stock Change	N.A.	771.03	133.70	200.19	229.69	303.58	341.41	-463.45
Exports of Goods and Services	N.A.	3,926.52	3,218.90	4,959.99	5,322.07	5,657.36	5,691.30	5,423.81
Imports of Goods and Services	N.A.	4,678.68	1,755.80	4,027.82	4,885.75	6,165.81	7,078.35	4,926.53
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	5.5	5.8	4.9	4.6	4.3	4.4	4.8
Industry	N.A.	42.6	33.9	34.4	33.3	32.1	30.9	29.9
Services, etc.	N.A.	37.8	49.7	49.2	50.5	51.8	52.9	54.3
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.	N.A.	105.565	243.798	303.551	354.403	471.606	303.388
Imports, c.i.f.	N.A.	N.A.	44.659	125.434	164.281	223.486	291.861	191.803
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	60.172	118.364	139.269	130.915	179.742	111.585
Current Account	N.A.	N.A.	46.839	84.602	94.686	77.768	103.530	48.605
Overall Balance	N.A.	N.A.	13.923	64.968	107.466	148.928	-38.919	3.363
Foreign Exchange Rate (RUR/USD) *1	N.A.	N.A.	28.1292	28.2844	27.1910	25.5808	24.8529	31.7404
Purchasing Power Parity (RUR/International Dollar) *1	N.A.	0.0005	7.3081	12.7361	12.5864	13.9255	14.3412	14.4844
Price Indices								
GDP Deflator (2000=100) *3	N.A.	0.0	100.0	219.7	253.0	287.9	339.6	346.2
Producer Price Index (2005=100) *3	N.A.	N.A.	44.3	100.0	112.4	128.2	155.7	144.5
Consumer Price Index (2005=100) *3	N.A.	N.A.	50.1	100.0	109.7	119.6	136.4	152.3
Growth Rate (%)								
Real GDP (*3)	N.A.	-3.00	10.00	6.38	8.15	8.54	5.25	-7.81
Population (*3)	0.71	0.39	0.00	-0.49	-0.45	-0.28	-0.11	-0.07
Price (*2)								
Producer Price Index	N.A.	N.A.	46.5	20.6	12.4	14.1	21.4	-7.2
Consumer Price Index	N.A.	N.A.	20.8	12.7	9.7	9.0	14.1	11.7

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"

: RUR means Russian Ruble, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Price of Russian Federation in 2009

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	145	Coking Coal	RUB/ton	3,782.18	Coking Coal		
Anthracite	USD/ton	81	Anthracite			Anthracite		
Other bituminous coal	USD/ton	134	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal		...	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite	USD/ton	21	Lignite	RUB/ton	815.17	Lignite		
Peat	USD/ton	98	Peat			Peat		
Patent Fuel	USD/ton	231	Patent Fuel			Patent Fuel ³⁾	RUB/ton	2,708.34
Coke	USD/ton	190	Coke			Coke		
Coal Tar	USD/ton	510	Coal Tar			Coal Tar		
BKB/PB	USD/ton	4,019	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	195	Crude Oil	RUB/ton	7,428.55	Crude Oil		
Natural Gas Liquids	USD/ton	195	Natural Gas Liquids			Natural Gas Liquids		
Ethane	USD/ton	2,100	Ethane			Ethane		
LPG	USD/ton	317	LPG			LPG		
Naphtha		...	Naphtha			Naphtha		
Motor Gasoline	USD/ton	674	Motor Gasoline	RUB/ton	23,377	Motor Gasoline ⁴⁾	RUB/litre	23.67
Aviation Gasoline	USD/ton	1,295	Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	USD/ton	532	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene	USD/ton	2,551	Other Kerosene			Other Kerosene		
Gas/Diesel Oil	USD/ton	613	Gas/Diesel Oil	RUB/ton	19,661	Gas/Diesel Oil		
Fuel Oil	USD/ton	444	Fuel Oil	RUB/ton	11,594	Fuel Oil		
White Spirit SBP	USD/ton	1,272	White Spirit SBP			White Spirit SBP		
Lubricants	USD/ton	2,307	Lubricants	RUB/ton	37,993	Lubricants		
Bitumen	USD/ton	542	Bitumen			Bitumen		
Paraffin Waxes	USD/ton	2,129	Paraffin Waxes			Paraffin Waxes		
Petroleum Coke	USD/ton	256	Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas			Natural Gas	RUB/1000m3	2,763.70	Natural Gas ⁵⁾	RUB/month-person	37.04
Liquefied Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas ⁵⁾	RUB/month-person	141.45
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas	RUB/balloon 50 litre	413.70
Electricity			Electricity			Electricity		
Electricity	USD/MWh	21.9	Electricity	RUB/100kWh	155.15	Industrial		
						Commercial		
						Residential ⁶⁾	RUB/100 kWh	206.46
						Others	RUB/100 kWh	149.59
Other Energy Products			Other Energy Products			Other Energy Products		
Charcoal	USD/ton	1,354						

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 ??-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	
2009									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	44,136	86,266	11,638	4,510	2,942	303	14,582
Export	-	-	-45	-73,550	-14,948	-1,764	-7,353	-1,077	-23,926
International Marine Bunkers	-	-	-	-36,387	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	-	-	-	-	-	-	-
Total Primary Energy Supply	-	-	44,091	-23,670	-3,311	2,746	-4,411	-774	-9,344
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-44,091	37,113	4,577	4,092	8,157	880	9,910
Main Activity Producer	-	-	-	-1,499	-	-	-	-	-53
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-128	-	-128	-	-	-
Petroleum Refineries	-	-	-44,091	38,740	4,577	4,220	8,157	880	9,964
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-672	-	-	-	-	-
Discrepancy	-	-	-	0	0	-	-0	-0	0
Total Final Energy Consumption	-	-	-	12,771	1,266	6,837	3,746	105	566
Industry Sector	-	-	-	6,943	-	6,837	-	105	-
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	6,943	-	6,837	-	105	-
Transport Sector	-	-	-	5,578	1,266	-	3,746	-	566
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	5,578	1,266	-	3,746	-	566
Other Sector	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-
Commerce and Public Services	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	250	-	-	-	-	-
2008									
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	50,271	72,760	10,392	4,296	3,364	303	8,724
Export	-	-	-70	-69,540	-14,105	-2,160	-8,364	-1,077	-19,876
International Marine Bunkers	-	-	-	-34,936	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	-	-	-	-	-	-	-	-	-
Total Primary Energy Supply	-	-	50,201	-31,717	-3,713	2,136	-4,999	-774	-11,152
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-	-	-50,201	45,221	4,892	4,810	8,779	872	11,687
Main Activity Producer	-	-	-	-1,522	-	-	-	-	-60
Autoproducers	-	-	-	-	-	-	-	-	-
Gas Processing	-	-	-	-128	-	-128	-	-	-
Petroleum Refineries	-	-	-50,201	46,871	4,892	4,938	8,779	872	11,747
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-717	-	-	-	-	-
Discrepancy	-	-	-	-	-	-	-	-	-
Total Final Energy Consumption	-	-	-	12,787	1,180	6,946	3,780	98	535
Industry Sector	-	-	-	7,043	-	6,946	-	98	-
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	-	-	-	7,043	-	6,946	-	98	-
Transport Sector	-	-	-	5,494	1,180	-	3,780	-	535
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	5,494	1,180	-	3,780	-	535
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
-	-	-	-	-	-	-	-	-	121	-	-	121
51,637	3	-	-	652	6,233	-	-	-	-	-	-	136,636
-21,008	-592	-	-	-2,880	-	-	-	-	-	-	-	-73,595
-36,387	-	-	-	-	-	-	-	-	-	-	-	-36,387
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-5,758	-590	-	-	-2,228	6,233	-	-	-	121	-	-	26,775
-	-	-	-	-	-	-	-	-	-	-	-	-
5,758	590	672	-	2,478	-6,120	-	-	-	-121	3,595	-	-9,625
-1,446	-	-	-	-	-6,233	-	-	-	-121	3,595	-	-4,259
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	113	-	-	-	-	-	-	-15
7,204	590	672	-	2,478	-	-	-	-	-	-	-	-5,351
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-672	-	-	-	-	-	-	-	-329	-	-1,001
-0	-	-	-	0	-0	-	-	-	-	-36	-	-36
-	-	-	-	250	113	-	-	-	-	3,230	-	16,114
-	-	-	-	-	48	-	-	-	-	1,172	-	8,163
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	48	-	-	-	-	1,172	-	8,163
-	-	-	-	-	-	-	-	-	-	-	-	5,578
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	5,578
-	-	-	-	-	65	-	-	-	-	2,058	-	2,123
-	-	-	-	-	65	-	-	-	-	2,053	-	2,118
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	4	-	4
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	250	-	-	-	-	-	-	-	250
-	-	-	-	-	-	-	-	-	136	-	-	136
44,646	6	-	-	1,028	6,167	-	-	-	-	-	-	129,198
-19,692	-653	-	-	-3,613	-	-	-	-	-	-	-	-69,610
-34,936	-	-	-	-	-	-	-	-	-	-	-	-34,936
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-9,982	-646	-	-	-2,585	6,167	-	-	-	136	-	-	24,788
-	-	-	-	-	-	-	-	-	-	-	-	-
9,982	646	717	-	2,835	-6,055	-	-	-	-136	3,588	-	-7,584
-1,462	-	-	-	-	-6,167	-	-	-	-136	3,588	-	-4,238
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	113	-	-	-	-	-	-	-15
11,445	646	717	-	2,835	-	-	-	-	-	-	-	-3,331
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-717	-	-	-	-	-	-	-	-325	-	-1,042
-	-	-	-	-	-	-	-	-	-	-33	-	-33
-	-	-	-	250	113	-	-	-	-	3,230	-	16,129
-	-	-	-	-	48	-	-	-	-	1,332	-	8,423
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	48	-	-	-	-	1,332	-	8,423
-	-	-	-	-	-	-	-	-	-	-	-	5,494
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	5,494
-	-	-	-	-	64	-	-	-	-	1,898	-	1,963
-	-	-	-	-	64	-	-	-	-	1,894	-	1,959
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	4	-	4
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	250	-	-	-	-	-	-	-	250

Major Energy Indicators of Singapore

ktoe

	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	1,976	9,896	20,421	22,991	23,845	23,701	24,788	26,775
Indigenous Production	2	19	101	194	295	104	136	121
Import	29,359	59,503	79,752	106,612	112,813	117,685	129,198	136,636
Export	-22,640	-36,556	-39,565	-55,719	-58,260	-62,542	-69,610	-73,595
Final Energy Consumption	2,070	5,322	9,367	14,744	15,251	15,824	16,129	16,114
Industry	343	1,907	3,514	8,058	8,100	8,251	8,423	8,163
Transport	1,346	2,368	4,159	4,726	5,075	5,417	5,494	5,578
Residential	-	-	-	1,707	1,823	1,902	1,959	2,118
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	380	1,047	1,693	253	253	254	254	254
Coal, Coal Products								
Primary Energy Supply	-	-	0	1	5	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	0	1	5	-	-	-
Export	-	-	-0	-	-	-	-	-
Transformation Sector	-	-	-	-1	-5	-	-	-
Power Generation	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	24,182	41,286	41,585	54,738	52,745	51,152	50,201	44,091
Indigenous Production	-	-	-	-	-	-	-	-
Import	24,255	41,286	41,585	54,738	52,745	51,246	50,271	44,136
Export	-73	-0	-	-	-	-94	-70	-45
Transformation Sector	-	-	-	-54,738	-52,745	-51,152	-50,201	-44,091
Petroleum Refineries	-30,180	-43,571	-41,585	-54,738	-52,745	-51,152	-50,201	-44,091
Petroleum Products								
Primary Energy Supply	-22,200	-31,409	-22,207	-37,176	-34,848	-33,515	-31,717	-23,670
Import	5,104	18,217	37,225	46,639	54,414	60,479	72,760	86,266
Export	-22,559	-36,555	-39,565	-55,719	-58,260	-62,448	-69,540	-73,550
Transformation Sector	-	-	-	49,632	47,668	46,760	45,221	37,113
Power Generation	-1,575	-3,388	-5,563	-1,724	-1,212	-1,734	-1,522	-1,499
Petroleum Refineries	27,381	39,530	38,305	51,484	49,008	48,622	46,871	38,740
Final Energy Consumption	1,506	4,046	6,757	11,688	12,084	12,527	12,787	12,771
Industry	73	1,296	2,372	6,713	6,760	6,861	7,043	6,943
Transport	1,346	2,352	4,135	4,726	5,075	5,417	5,494	5,578
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	86	399	250	250	250	250	250	250
Natural Gas								
Primary Energy Supply	-	-	942	5,234	5,649	5,960	6,167	6,233
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	942	5,234	5,649	5,960	6,167	6,233
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-5,138	-5,541	-5,849	-6,055	-6,120
Power Generation	-	-	-942	-5,234	-5,649	-5,960	-6,167	-6,233
Final Energy Consumption	38	55	105	96	108	110	113	113
Industry	16	32	66	55	46	47	48	48
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	41	62	63	64	65
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	22	23	39	-	-	-	-	-
Electricity								
Power Generation	599	1,343	2,723	3,286	3,392	3,538	3,588	3,595
Thermal	597	1,324	2,622	3,092	3,097	3,433	3,451	3,474
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Others	2	19	101	194	295	104	136	121
Final Energy Consumption	525	1,221	2,505	2,960	3,058	3,186	3,230	3,230
Industry	253	580	1,077	1,290	1,294	1,343	1,332	1,172
Transport	-	16	25	-	-	-	-	-
Residential	-	-	-	1,666	1,761	1,839	1,894	2,053
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	272	625	1,404	4	4	4	4	4

Major Economic Indicators of Singapore

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	2.41	3.05	4.03	4.27	4.40	4.59	4.84	4.99
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	21.83	44.66	92.72	121.09	131.63	143.18	145.31	144.19
Real Term (Billions of 2000 Price and 2000 PPP)	30.93	63.28	131.36	171.56	186.50	202.86	205.88	204.29
Nominal (Billions of Current USD)	11.73	36.84	92.72	125.43	145.33	177.33	189.38	183.33
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	9,042	14,658	23,019	28,387	29,907	31,204	30,027	28,911
Real Term (2000 Price and 2000 PPP)	12,811	20,767	32,612	40,219	42,372	44,210	42,542	40,960
Nominal (Current USD)	4,859	12,091	23,019	29,403	33,019	38,646	39,134	36,758
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	25.12	66.78	159.84	208.76	230.92	267.25	267.95	266.66
Household Final Consumption Expenditure, etc.	12.91	30.91	67.53	81.78	87.27	97.00	105.55	N.A.
General Government Final Consumption Expenditure	2.45	6.76	17.34	21.42	23.45	24.45	27.53	N.A.
Gross Fixed Capital Formation	10.23	22.00	48.90	42.90	48.77	60.42	73.34	N.A.
Stock Change	1.43	2.77	4.32	-2.15	-4.35	-8.22	6.18	N.A.
Exports of Goods and Services	N.A.	N.A.	N.A.	476.00	538.34	579.12	603.24	N.A.
Imports of Goods and Services	N.A.	N.A.	N.A.	418.47	471.50	499.43	554.14	N.A.
Real GDP & its Components (Billions of 1995 SGD) *1								
Gross Domestic Product	37.63	77.00	159.84	208.76	226.93	246.85	250.52	248.59
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	81.15	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	20.23	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	43.54	N.A.	N.A.	N.A.	N.A.
Stock Change	N.A.	N.A.	N.A.	-7.60	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	1.0	0.3	0.1	0.1	0.1	0.1	0.1	N.A.
Industry	35.6	32.5	33.1	29.1	29.6	29.2	28.5	N.A.
Services, etc.	55.3	59.1	59.8	59.2	58.6	57.9	59.2	N.A.
Manufacturing Production Index (2005=100) *2	19.9	38.8	81.4	100.0	111.9	118.4	113.5	108.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	19.376	52.730	137.804	229.649	271.807	299.308	338.176	269.832
Imports, c.i.f.	24.007	60.774	134.545	200.047	238.710	263.155	319.780	245.785
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-2.971	-1.633	13.678	36.387	42.591	45.963	26.615	30.231
Current Account	-1.563	3.122	10.178	26.666	35.126	47.084	36.011	32.628
Overall Balance	0.663	5.431	6.822	12.315	17.008	19.640	13.067	11.808
Foreign Exchange Rate (SGD/USD) *1	2.1412	1.8125	1.7240	1.6644	1.5889	1.5071	1.4149	1.4545
Purchasing Power Parity (SGD/International Dollar) *1	1.5090	1.2963	1.2168	1.0786	1.0630	1.0986	1.0622	1.0556
Price Indices								
GDP Deflator (1995=100) *3	66.7	86.7	100.0	100.0	101.8	108.3	107.0	107.3
Wholesale Price Index (2005=100) *2	106.9	93.1	87.7	100.0	105.0	105.3	113.2	97.5
Consumer Price Index (2005=100) *2	65.3	81.7	96.9	100.0	101.0	103.1	109.9	110.5
Growth Rate (%) *3								
Real GDP	9.71	9.22	10.06	13.30	8.70	8.77	1.49	-0.77
Population	1.26	3.96	1.75	2.38	3.18	4.25	5.47	3.06
Price								
Wholesale Price Index	19.6	1.7	10.1	9.7	5.0	0.3	7.5	-13.9
Consumer Price Index	8.5	3.5	1.4	0.4	1.0	2.1	6.5	0.6

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"

: 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					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	-	-	14	-	-	-	-	-	-
Import	36,018	73	49,643	15,059	-	10,914	-	-	-
Export	-	-25	-	-18,708	-4,346	-118	-2,588	-	-10,072
International Marine Bunkers	-	-	-	-1,648	-	-	-	-	-189
International Aviation Bunkers	-	-	-	-1,754	-	-	-1,754	-	-
Stock Changes	850	-	351	-92	-56	187	-	1	-272
Total Primary Energy Supply	36,868	48	50,008	-7,143	-4,402	10,982	-4,342	1	-10,532
Transfers	-	-	-	-808	-94	1,327	-11	-0	-258
Total Transformation Sector	-32,420	1,819	-50,159	47,657	11,971	4,200	4,499	-	15,050
Main Activity Producer	-22,158	-	-	-1,468	-	-	-	-	-57
Autoproducers	-6,278	-381	-	-995	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-50,159	50,121	11,971	4,200	4,499	-	15,107
Coal Transformation	-3,984	2,200	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-697	-	-1,877	-2	-	-	-0	-28
Discrepancy	218	90	151	959	92	83	98	8	118
Total Final Energy Consumption	4,667	1,259	-	38,789	7,565	16,593	243	9	4,350
Industry Sector	4,667	1,259	-	3,798	6	-	-	0	133
Iron and Steel	31	1,114	-	380	0	-	-	-	5
Chemical & Petrochemical	3,028	90	-	1,541	0	-	-	-	69
Non-metallic Minerals	1,259	-	-	327	0	-	-	-	17
Other Industries	350	55	-	1,551	6	-	-	0	42
Transport Sector	-	-	-	11,385	7,519	-	76	-	3,542
Domestic Air Transport	-	-	-	76	-	-	76	-	-
Road	-	-	-	11,037	7,519	-	-	-	3,432
Rail	-	-	-	24	-	-	-	-	24
Inland Waterways	-	-	-	248	-	-	-	-	86
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,652	40	-	167	9	676
Residential	-	-	-	1,225	-	-	-	-	-
Commerce and Public Services	-	-	-	1,104	40	-	167	9	373
Agriculture	-	-	-	4	0	-	-	0	0
Non-specified Others	-	-	-	319	-	-	-	-	302
Non-energy	-	-	-	20,954	-	16,593	-	-	-
2008									
Indigenous Production	-	-	14	-	-	-	-	-	-
Import	39,246	267	47,865	15,679	-	11,347	-	-	-
Export	-	-59	-	-17,393	-4,395	-69	-2,079	-	-9,306
International Marine Bunkers	-	-	-	-1,798	-	-	-	-	-171
International Aviation Bunkers	-	-	-	-1,856	-	-	-1,856	-	-
Stock Changes	-745	20	-639	523	93	285	-	0	107
Total Primary Energy Supply	38,501	228	47,241	-4,846	-4,302	11,564	-3,935	0	-9,370
Transfers	-	-	-	-6,661	-14	-3,822	-15	-0	-341
Total Transformation Sector	-33,115	1,983	-47,351	51,042	11,631	8,131	4,276	-	14,547
Main Activity Producer	-22,871	-	-	-2,545	-	-	-	-	-127
Autoproducers	-6,301	-477	-	-1,063	-	-	-	-	-
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-47,351	54,651	11,631	8,131	4,276	-	14,674
Coal Transformation	-3,944	2,460	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-682	-803	-	-1,871	-2	-	-	-	-41
Discrepancy	97	31	110	224	103	-56	-76	9	-61
Total Final Energy Consumption	4,801	1,439	-	37,889	7,416	15,817	250	9	4,734
Industry Sector	4,801	1,439	-	4,030	6	-	-	0	149
Iron and Steel	59	1,193	-	417	0	-	-	-	6
Chemical & Petrochemical	3,016	157	-	1,574	0	-	-	-	72
Non-metallic Minerals	1,400	-	-	374	0	-	-	-	17
Other Industries	327	89	-	1,667	5	-	-	0	53
Transport Sector	-	-	-	11,427	7,369	-	87	-	3,745
Domestic Air Transport	-	-	-	87	-	-	87	-	-
Road	-	-	-	11,068	7,369	-	-	-	3,620
Rail	-	-	-	31	-	-	-	-	31
Inland Waterways	-	-	-	242	-	-	-	-	94
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	2,801	41	-	164	9	840
Residential	-	-	-	1,236	-	-	-	-	-
Commerce and Public Services	-	-	-	1,105	41	-	164	9	398
Agriculture	-	-	-	4	0	-	-	-	1
Non-specified Others	-	-	-	456	-	-	-	-	441
Non-energy	-	-	-	19,631	-	15,817	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	281	693	10,833	145	1,835	-	-	13,801
851	1,405	-	-	1,890	11,062	-	-	-	-	-	-	111,855
-569	-178	-	-	-836	-	-	-	-	-	-	-	-18,733
-1,458	-	-	-	-1	-	-	-	-	-	-	-	-1,648
-	-	-	-	-	-	-	-	-	-	-	-	-1,754
143	-96	-	-	-	-63	-	-	-	-	-	-	1,046
-1,034	1,130	-	-	1,053	11,280	693	10,833	145	1,835	-	-	104,568
-1,462	-54	-	-	-257	-	-	-	-	-	-	-	-808
6,446	1,764	1,277	-	2,451	-9,523	-	-10,833	-	-1,835	19,753	-	-35,541
-1,411	-	-	-	-	-7,985	-	-10,833	-	-	16,550	-	-25,894
-531	-	-22	-	-442	-115	-	-	-	-1,835	3,203	-	-6,401
-	-	-	-	-	-1,423	-	-	-	-	-	-	-1,423
8,389	1,764	1,299	-	2,893	-	-	-	-	-	-	-	-39
-	-	-	-	-	-	-	-	-	-	-	-	-1,784
-	-	-	-	-	-	-	-	-	-	-	-	-
-528	-43	-1,277	-	-	-404	-2	-	-0	-	-1,772	-	-4,752
331	-7	-	-	237	479	-691	-	-43	-	-640	-	523
3,754	2,791	-	-	3,483	1,833	-	-	102	-	17,341	-	63,990
3,146	434	-	-	79	820	-	-	-	-	9,434	-	19,978
350	13	-	-	12	164	-	-	-	-	1,001	-	2,690
1,137	269	-	-	67	204	-	-	-	-	3,004	-	7,867
296	14	-	-	-	132	-	-	-	-	390	-	2,107
1,364	139	-	-	-	320	-	-	-	-	5,038	-	7,314
162	85	-	-	-	-	-	-	-	-	95	-	11,480
-	-	-	-	-	-	-	-	-	-	-	-	76
-	85	-	-	-	-	-	-	-	-	-	-	11,037
-	-	-	-	-	-	-	-	-	-	95	-	119
162	-	-	-	-	-	-	-	-	-	-	-	248
-	-	-	-	-	-	-	-	-	-	-	-	-
446	1,315	-	-	-	1,013	-	-	102	-	7,812	-	11,578
-	1,225	-	-	-	655	-	-	102	-	3,704	-	5,686
426	89	-	-	-	358	-	-	-	-	3,886	-	5,348
3	0	-	-	-	-	-	-	-	-	143	-	147
17	-	-	-	-	-	-	-	-	-	79	-	398
-	957	-	-	3,405	-	-	-	-	-	-	-	20,954
-	-	-	-	-	318	688	10,639	133	1,934	-	-	13,727
1,786	1,194	-	-	1,351	12,473	-	-	-	-	-	-	115,530
-475	-358	-	-	-712	-	-	-	-	-	-	-	-17,452
-1,625	-	-	-	-2	-	-	-	-	-	-	-	-1,798
-	-	-	-	-	-	-	-	-	-	-	-	-1,856
22	16	-	-	-	-90	-	-	-	-	-	-	-932
-292	853	-	-	637	12,700	688	10,639	133	1,934	-	-	107,218
-2,176	-48	-	-	-245	-	-	-	-	-	-	-	-6,661
6,770	1,935	1,251	-	2,502	-10,200	-687	-10,639	-	-1,934	20,541	-	-30,361
-2,419	-	-	-	-	-9,294	-687	-10,639	-	-	17,324	-	-28,713
-581	-	-31	-	-451	-140	-	-	-	-1,934	3,216	-	-6,699
-	-	-	-	-	-767	-	-	-	-	-	-	-767
9,769	1,935	1,282	-	2,954	-	-	-	-	-	-	-	7,300
-	-	-	-	-	-	-	-	-	-	-	-	-1,483
-	-	-	-	-	-	-	-	-	-	-	-	-
-511	-66	-1,251	-	-	-453	-1	-	-0	-	-1,844	-	-5,654
138	-3	-	-	170	-11	-	-	-34	-	-628	-	-210
3,928	2,672	-	-	3,064	2,036	-	-	99	-	18,069	-	64,332
3,357	507	-	-	12	871	-	-	-	-	10,068	-	21,209
381	17	-	-	12	224	-	-	-	-	1,171	-	3,063
1,189	313	-	-	-	147	-	-	-	-	3,074	-	7,968
338	18	-	-	-	201	-	-	-	-	434	-	2,408
1,448	160	-	-	-	299	-	-	-	-	5,389	-	7,770
148	79	-	-	-	-	-	-	-	-	95	-	11,521
-	-	-	-	-	-	-	-	-	-	-	-	87
-	79	-	-	-	-	-	-	-	-	-	-	11,068
-	-	-	-	-	-	-	-	-	-	95	-	125
148	-	-	-	-	-	-	-	-	-	-	-	242
-	-	-	-	-	-	-	-	-	-	-	-	-
424	1,324	-	-	-	1,165	-	-	99	-	7,906	-	11,971
-	1,236	-	-	-	831	-	-	99	-	3,671	-	5,837
405	88	-	-	-	334	-	-	-	-	4,012	-	5,451
3	0	-	-	-	-	-	-	-	-	141	-	144
15	-	-	-	-	-	-	-	-	-	83	-	539
-	763	-	-	3,052	-	-	-	-	-	-	-	19,631

Major Energy Indicators of Chinese Taipei

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	24,805	45,477	78,981	104,593	107,963	112,426	107,218	104,568
Indigenous Production	5,654	10,748	11,476	13,152	13,389	14,249	13,727	13,801
Import	20,642	39,723	78,713	111,997	115,142	119,902	115,530	111,855
Export	-297	-335	-2,294	-15,590	-14,937	-17,787	-17,452	-18,733
Final Energy Consumption	16,710	29,302	53,558	62,206	63,321	67,848	64,333	63,990
Industry	9,922	15,667	29,393	23,798	24,802	22,903	21,209	19,978
Transport	3,032	6,735	12,165	12,657	12,640	12,148	11,521	11,480
Residential	1,515	2,904	4,802	6,140	6,232	5,906	5,837	5,686
Commerce & Public Services	1,144	2,259	3,999	4,882	4,860	5,444	5,451	5,348
Others	1,097	1,736	3,199	14,730	14,787	21,446	20,315	21,499
Coal, Coal Products								
Primary Energy Supply	1,571	10,562	27,493	39,183	41,069	40,293	38,729	36,916
Indigenous Production	1,516	278	49	-	-	-	-	-
Import	37	11,389	27,911	39,715	41,097	40,457	39,513	36,090
Export	-5	-0	-	-	-	-7	-59	-25
Transformation Sector	-	-	-	-30,217	-31,428	-31,870	-31,132	-30,601
Power Generation	-1,489	-5,145	-19,428	-28,585	-29,650	-30,690	-29,649	-28,817
Final Energy Consumption	1,799	5,903	8,391	6,706	7,254	6,589	6,240	5,926
Industry	1,712	5,897	8,339	6,706	7,254	6,589	6,240	5,926
Transport	3	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	84	6	52	-	-	-	-	-
Crude Oil								
Primary Energy Supply	17,839	20,512	36,188	54,303	51,927	52,202	47,241	50,008
Indigenous Production	181	156	32	29	21	16	14	14
Import	17,605	21,105	36,876	54,576	52,199	51,955	47,865	49,643
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-54,431	-52,244	-52,049	-47,351	-50,159
Petroleum Refineries	-17,839	-20,512	-36,188	-54,431	-52,244	-52,049	-47,351	-50,159
Petroleum Products								
Primary Energy Supply	1,438	3,406	-1,093	-12,004	-8,947	-5,906	-4,846	-7,143
Import	3,001	6,467	8,757	7,864	11,173	16,007	15,679	15,059
Export	-292	-335	-2,294	-15,590	-14,937	-17,779	-17,393	-18,708
Transformation Sector	-	-	-	50,566	48,932	49,644	51,042	47,657
Power Generation	-5,217	-4,825	-6,171	-3,882	-4,559	-3,954	-3,609	-2,463
Petroleum Refineries	15,878	19,184	39,502	54,448	53,491	53,598	54,651	50,121
Final Energy Consumption	10,400	16,106	29,907	36,692	36,669	40,824	37,889	38,789
Industry	5,049	5,803	12,868	7,319	7,321	5,120	4,030	3,798
Transport	3,003	6,698	12,071	12,542	12,552	12,076	11,427	11,385
Residential	700	1,094	1,266	1,304	1,256	1,256	1,236	1,225
Commerce & Public Services	725	973	830	1,012	978	1,150	1,105	1,104
Others	924	1,538	2,872	14,516	14,563	21,221	20,091	21,276
Natural Gas								
Primary Energy Supply	1,569	1,728	5,596	10,476	10,957	11,886	12,700	11,280
Indigenous Production	1,569	1,045	598	487	412	371	318	281
Import	-	762	5,169	9,842	10,673	11,393	12,473	11,062
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-8,113	-8,489	-9,317	-10,200	-9,523
Power Generation	-	-241	-3,393	-7,518	-7,738	-8,575	-9,434	-8,100
Final Energy Consumption	1,339	926	1,490	1,986	2,010	2,051	2,036	1,833
Industry	1,078	392	682	862	900	929	871	820
Transport	-	-	-	-	-	-	-	-
Residential	200	400	565	844	828	847	831	655
Commerce & Public Services	36	81	162	280	282	275	334	358
Others	26	53	81	-	-	-0	-	-
Electricity								
Power Generation	3,664	7,481	15,897	19,561	20,242	20,908	20,541	19,753
Thermal	2,700	3,922	11,790	13,957	14,305	14,184	14,373	14,307
Hydro	252	704	763	680	685	718	687	-
Nuclear	712	2,855	3,345	3,472	3,463	3,522	3,546	3,611
Others	-	-	-	1,451	1,788	2,484	1,934	1,835
Final Energy Consumption	3,171	6,367	13,770	16,734	17,296	18,289	18,069	17,341
Industry	2,083	3,575	7,504	8,911	9,327	10,265	10,068	9,434
Transport	26	37	94	115	88	71	95	95
Residential	615	1,410	2,971	3,905	4,055	3,709	3,671	3,704
Commerce & Public Services	384	1,206	3,008	3,589	3,601	4,019	4,012	3,886
Others	63	139	195	214	224	225	224	222

Major Economic Indicators of Chinese Taipei

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	17.87	20.40	22.28	22.77	22.88	22.96	23.04	23.12
Gross Domestic Product *2								
Real Term (Billions of 2000 Price and 2000 USD)	80.91	168.70	308.78	368.47	388.50	411.74	414.75	406.76
Real Term (Billions of 2000 Price and 2000 PPP)	123.75	258.05	472.32	563.61	594.25	629.80	634.40	622.18
Nominal (Billions of Current USD)	42.21	163.41	308.78	357.39	375.61	397.94	384.06	389.55
GDP per Capita *2								
Real Term (2000 Price and 2000 USD)	4,529	8,269	13,861	16,182	16,983	17,934	18,004	17,594
Real Term (2000 Price and 2000 PPP)	6,927	12,649	21,202	24,752	25,976	27,432	27,538	26,911
Nominal (Current USD)	2,363	8,010	13,861	15,695	16,419	17,333	16,671	16,849
Nominal GDP & its Components (Billions of Current TWD) *1								
Gross Domestic Product	1,519.95	4,430.06	10,187.39	11,740.28	12,243.47	12,910.51	12,620.15	12,477.18
Private Consumption, etc.	790.88	2,388.85	5,987.73	7,090.74	7,248.34	7,506.47	7,610.00	7,579.89
General Government Consumption	240.88	769.31	1,362.91	1,463.23	1,469.30	1,521.10	1,563.63	1,617.46
Fixed Investment	458.48	1,048.75	2,524.44	2,635.45	2,730.67	2,841.35	2,665.93	2,355.74
Stock Change	47.47	30.68	91.20	32.40	46.28	14.46	160.38	-152.31
Exports of Goods & NF Services	783.27	2,025.42	5,392.44	7,341.71	8,325.72	9,304.06	9,208.65	7,796.56
Imports of Goods & NF Services	801.03	1,832.95	5,171.33	6,823.25	7,576.84	8,276.93	8,588.44	6,720.15
Real GDP & its Components (Billions of 2001 TWD) *1								
Gross Domestic Product	2,549.74	5,316.58	9,731.21	11,612.09	12,243.47	12,975.99	13,070.68	12,818.94
Private Consumption, etc.	1,462.14	3,150.89	6,149.54	7,141.82	7,248.34	7,399.43	7,330.49	7,409.89
General Government Consumption	517.89	1,080.76	1,437.46	1,479.82	1,469.30	1,499.97	1,512.36	1,571.11
Fixed Investment	671.30	1,371.51	2,812.74	2,728.70	2,730.67	2,745.80	2,406.52	2,141.59
Stock Change	50.60	39.53	107.49	34.22	46.28	12.87	134.44	-153.46
Exports of Goods & NF Services	816.57	2,221.05	5,355.03	7,473.09	8,325.72	9,120.88	9,200.04	8,398.70
Imports of Goods & NF Services	968.76	2,547.17	6,131.05	7,245.56	7,576.84	7,802.96	7,513.17	6,548.90
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	8.4	4.0	2.0	1.7	1.6	1.5	1.6	1.7
Industry	42.8	38.9	30.5	31.3	31.3	31.4	29.1	29.0
Services, etc.	48.8	57.0	67.5	67.1	67.1	67.1	69.3	69.3
Industrial Production Index (2006=100) *1	24.6	46.0	77.3	95.7	100.0	108.3	106.7	98.2
External Trade (Billions of Current USD) *1								
Exports	19.878	67.425	151.950	198.432	224.017	246.677	255.629	203.675
Imports, c.i.f.	19.760	54.786	140.732	182.614	202.698	219.252	240.448	174.371
Balance of Payments (Billions of Current USD) *1								
Trade Balance	0.118	14.807	13.672	12.803	20.676	28.805	20.325	32.544
Current Account	-0.913	10.923	8.899	17.578	26.322	35.154	27.505	42.911
Overall Balance	-0.319	-3.918	2.477	17.461	26.204	35.058	27.171	42.815
Foreign Exchange Rate (TWD/USD) *1	36.01	27.11	32.99	32.85	32.60	32.44	32.86	32.03
Purchasing Power Parity (TWD/International Dollar) *3	N.A.	N.A.	21.5691	N.A.	N.A.	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (2006=100) *2	59.6	83.3	104.7	101.1	100.0	99.5	96.6	97.3
Wholesale Price Index (2006=100) *2	87.8	83.1	86.9	94.7	100.0	106.5	112.0	102.2
Consumer Price Index (2006=100) *2	55.2	74.5	96.1	99.4	100.0	101.8	105.4	104.5
Growth Rate (%) *2								
Real GDP	7.32	6.87	5.80	4.70	5.44	5.98	0.73	-1.93
Population	1.87	1.21	0.83	0.36	0.47	0.36	0.34	0.36
Price								
Wholesale Price Index	21.5	-0.6	1.8	0.6	5.6	6.5	5.2	-8.7
Consumer Price Index	19.0	4.1	1.3	2.3	0.6	1.8	3.5	-0.9

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 2009

Currency Exchange Rate

Currency Exchange Rate	Local currency / USD	
Local Currency Unit		NTD

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

IMPORT PRICES			WHOLESALE PRICES			CONSUMER PRICES		
	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	USD/ton	172.95	Coking Coal			Coking Coal		
Anthracite	USD/ton	141.75	Anthracite			Anthracite		
Other bituminous coal	USD/ton	89.66	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	USD/ton	75.97	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	USD/ton	222.96	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	59.36	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG	USD/ton	540.94	LPG	NTD/kg	24.46	LPG	NTD/kg	24.46
Naphtha	USD/ton	528.01	Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	NTD/L	27.52	Motor Gasoline	NTD/L	30.17
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	36.50	Other Kerosene	NTD/L	36.50
Gas/Diesel Oil			Gas/Diesel Oil	NTD/L	25.42	Gas/Diesel Oil	NTD/L	26.80
Fuel Oil	USD/kL	503.10	Fuel Oil	NTD/L	16.44	Fuel Oil	NTD/L	17.75
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen	USD/ton	447.94	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	15.00	Natural Gas	NTD/m ³	16.19
Liquefied Natural Gas	USD/ton	437.03	Liquefied Natural Gas	NTD/m ³	16.68	Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity	NTD/kWh	2.61	Industrial	NTD/kWh	2.46
						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					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	5,021	-	12,907	3,281	-	-	-	-	-
Import	4,915	5,354	43,148	431	11	-	9	-	333
Export	-1	-16	-2,261	-10,209	-1,016	-	-1,327	-16	-4,148
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-3,366	-	-	-3,366	-	-
Stock Changes	-2	-827	935	-1,113	-596	-	45	-54	336
Total Primary Energy Supply	9,933	4,511	54,729	-10,975	-1,602	-	-4,639	-70	-3,480
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,249	-	-49,252	39,505	6,657	-	4,929	85	19,299
Main Activity Producer	-6,687	-	-	-162	-	-	-	-	-21
Autoproducers	-562	-	-	-146	-	-	-	-	-138
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-49,252	40,238	6,657	-	4,929	85	19,457
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-424	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-8	0	-358	2,217	606	-	-0	904	136
Total Final Energy Consumption	2,676	4,511	5,119	30,747	5,661	-	291	918	15,955
Industry Sector	2,676	4,511	-	3,467	13	-	-	574	1,052
Iron and Steel	76	7	-	281	0	-	-	24	32
Chemical & Petrochemical	7	20	-	533	1	-	-	196	76
Non-metallic Minerals	2,008	2,822	-	258	0	-	-	73	51
Other Industries	585	1,662	-	2,394	11	-	-	281	894
Transport Sector	-	-	-	19,647	5,598	-	291	-	11,494
Domestic Air Transport	-	-	-	293	2	-	291	-	-
Road	-	-	-	17,722	5,596	-	-	-	11,341
Rail	-	-	-	86	-	-	-	-	86
Inland Waterways	-	-	-	1,546	-	-	-	-	67
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	6,434	49	-	-	345	3,409
Residential	-	-	-	2,081	-	-	-	331	-
Commerce and Public Services	-	-	-	876	-	-	-	-	-
Agriculture	-	-	-	3,476	49	-	-	13	3,409
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	5,119	1,199	-	-	-	-	-
2008									
Indigenous Production	4,787	-	11,954	3,228	-	-	-	-	-
Import	4,781	5,338	40,893	366	-	-	40	-	78
Export	-	47	-2,520	-9,071	-1,112	-	-1,111	-90	-3,291
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-3,574	-	-	-3,574	-	-
Stock Changes	-	-	-	711	-38	-	-12	63	137
Total Primary Energy Supply	9,568	5,385	50,327	-8,340	-1,149	-	-4,658	-27	-3,077
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-7,522	-14	-49,565	38,003	6,354	-	4,952	160	18,395
Main Activity Producer	-6,924	-	-	-379	-	-	-	-	-39
Autoproducers	-598	-14	-	-8	-	-	-	-	-1
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-49,565	38,678	6,354	-	4,952	160	18,435
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-287	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	136	-95	2,362	122	152	-	-45	673	-82
Total Final Energy Consumption	2,182	5,277	3,125	29,785	5,357	-	249	807	15,236
Industry Sector	2,182	5,277	-	4,602	22	-	-	494	977
Iron and Steel	159	11	-	305	0	-	-	25	32
Chemical & Petrochemical	16	5	-	1,424	4	-	-	181	75
Non-metallic Minerals	1,640	2,570	-	290	0	-	-	76	51
Other Industries	366	2,691	-	2,583	17	-	-	213	820
Transport Sector	-	-	-	18,289	5,285	-	249	-	10,882
Domestic Air Transport	-	-	-	251	2	-	249	-	-
Road	-	-	-	16,270	5,283	-	-	-	10,722
Rail	-	-	-	92	-	-	-	-	92
Inland Waterways	-	-	-	1,677	-	-	-	-	68
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	-	-	-	-	-	-
Other Sector	-	-	-	6,172	50	-	-	313	3,377
Residential	-	-	-	1,930	-	-	-	313	-
Commerce and Public Services	-	-	-	810	-	-	-	-	-
Agriculture	-	-	-	3,433	50	-	-	-	3,377
Non-specified Others	-	-	-	0	-	-	-	-	-
Non-energy	-	-	3,125	722	-	-	-	-	-

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
-	3,281	-	-	-	23,337	615	-	2	1,971	-	-	47,134
79	-	-	-	-	8,294	-	-	-	-	210	-	62,352
-3,684	-18	-	-	-	-	-	-	-	-	-134	-	-12,622
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-3,366
-345	-498	-	-	-	-	-	-	-	-	-	-	-1,007
-3,950	2,765	-	-	-	31,631	615	-	2	1,971	76	-	92,492
-	-	-	-	-	-	-	-	-	-	-	-	-
6,424	2,112	-	-	-	-22,751	-615	-	-2	-1,971	12,754	-	-29,581
-142	-	-	-	-	-20,307	-615	-	-2	-	11,477	-	-16,296
-9	-	-	-	-	-2,444	-	-	-	-1,971	1,277	-	-3,846
-	-	-	-	-	-	-	-	-	-	-	-	-
6,574	2,536	-	-	-	-	-	-	-	-	-	-	-9,014
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-424	-	-	-	-	-	-	-	-	-	-	-424
-	-	-	-	-	-4,057	-	-	-	-	-1,250	-	-5,307
147	424	-	-	-	-0	-	-	-	-	48	-	1,899
2,621	5,301	-	-	-	4,822	-	-	-	-	11,628	-	59,503
1,138	690	-	-	-	2,346	-	-	-	-	4,874	-	17,873
140	85	-	-	-	213	-	-	-	-	488	-	1,064
86	175	-	-	-	1,016	-	-	-	-	820	-	2,396
41	94	-	-	-	714	-	-	-	-	529	-	6,332
870	337	-	-	-	403	-	-	-	-	3,037	-	8,080
1,480	785	-	-	-	1,280	-	-	-	-	5	-	20,932
-	-	-	-	-	-	-	-	-	-	-	-	293
-	785	-	-	-	1,280	-	-	-	-	-	-	19,002
-	-	-	-	-	-	-	-	-	-	5	-	92
1,480	-	-	-	-	-	-	-	-	-	-	-	1,546
-	-	-	-	-	-	-	-	-	-	-	-	-
4	2,627	-	-	-	0	-	-	-	-	6,749	-	13,183
-	1,750	-	-	-	-	-	-	-	-	2,612	-	4,693
1	875	-	-	-	0	-	-	-	-	4,050	-	4,927
3	2	-	-	-	-	-	-	-	-	27	-	3,504
-	-	-	-	-	-	-	-	-	-	60	-	60
-	1,199	-	-	-	1,196	-	-	-	-	-	-	7,515
-	3,228	-	-	-	17,236	612	-	1	1,707	-	-	39,524
241	8	-	-	-	8,261	-	-	-	-	240	-	59,879
-3,443	-25	-	-	-	-	-	-	-	-	-101	-	-11,646
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-3,574
282	280	-	-	-	-	-	-	-	-	-	-	711
-2,919	3,490	-	-	-	25,497	612	-	1	1,707	138	-	84,895
-	-	-	-	-	-	-	-	-	-	-	-	-
6,213	1,929	-	-	-	-22,293	-612	-	-1	-1,707	12,679	-	-31,032
-340	-	-	-	-	-19,966	-612	-	-1	-	11,419	-	-16,463
-8	-	-	-	-	-2,327	-	-	-	-1,707	1,260	-	-3,395
-	-	-	-	-	-	-	-	-	-	-	-	-
6,560	2,216	-	-	-	-	-	-	-	-	-	-	-10,887
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-287	-	-	-	-	-	-	-	-	-	-	-287
-	-	-	-	-	-	-	-	-	-	-1,209	-	-1,209
-198	-379	-	-	-	-	-	-	-	-	-	-	2,526
3,096	5,040	-	-	-	3,204	-	-	-	-	11,608	-	55,180
1,484	1,626	-	-	-	2,540	-	-	-	-	4,898	-	19,499
147	101	-	-	-	-	-	-	-	-	1,686	-	2,160
103	1,062	-	-	-	566	-	-	-	-	824	-	2,835
70	94	-	-	-	1,513	-	-	-	-	482	-	6,495
1,164	369	-	-	-	461	-	-	-	-	1,907	-	8,009
1,608	265	-	-	-	664	-	-	-	-	5	-	18,958
-	-	-	-	-	-	-	-	-	-	-	-	251
-	265	-	-	-	664	-	-	-	-	-	-	16,934
-	-	-	-	-	-	-	-	-	-	5	-	97
1,608	-	-	-	-	-	-	-	-	-	-	-	1,677
-	-	-	-	-	-	-	-	-	-	-	-	-
4	2,428	-	-	-	-	-	-	-	-	6,705	-	12,877
-	1,617	-	-	-	-	-	-	-	-	2,476	-	4,405
1	809	-	-	-	-	-	-	-	-	4,142	-	4,952
3	3	-	-	-	-	-	-	-	-	24	-	3,457
-	-	-	-	-	-	-	-	-	-	63	-	63
-	722	-	-	-	-	-	-	-	-	-	-	3,846

Major Energy Indicators of Thailand

ktoe

	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	12,104	27,918	60,372	78,337	80,417	84,155	84,895	92,492
Indigenous Production	531	11,854	28,559	34,323	33,537	36,063	39,524	47,134
Import	12,012	18,968	40,086	57,234	58,649	58,772	59,879	62,352
Export	-16	-791	-5,450	-9,024	-10,250	-9,356	-11,646	-12,622
Final Energy Consumption	9,272	20,196	38,675	52,278	51,864	53,428	55,180	59,503
Industry	2,759	5,917	12,833	17,729	17,728	18,416	18,777	17,873
Transport	4,278	9,452	15,945	20,247	19,535	19,858	19,680	20,932
Residential	3	487	5,828	3,513	3,634	3,846	4,405	4,693
Commerce & Public Services	-	478	728	3,826	4,191	4,457	4,952	4,927
Others	2,232	3,863	3,341	6,963	6,776	6,852	7,366	11,078
Coal, Coal Products								
Primary Energy Supply	445	3,828	7,838	10,680	11,847	14,234	14,953	14,444
Indigenous Production	408	3,603	5,196	5,220	4,750	5,204	4,787	5,021
Import	60	220	2,655	5,461	7,097	9,030	10,119	10,269
Export	-1	-	-	-	-	-	47	-17
Transformation Sector	-	-	-	-4,725	-4,816	-6,948	-7,536	-7,249
Power Generation	-331	-2,472	-4,204	-4,725	-4,816	-6,948	-7,536	-7,249
Final Energy Consumption	114	1,357	3,660	6,827	7,569	6,918	7,459	7,187
Industry	114	1,356	3,660	6,827	7,569	6,918	7,459	7,187
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	0	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	7,745	12,220	39,400	49,550	51,122	51,722	50,327	54,729
Indigenous Production	14	2,112	5,159	9,893	10,283	11,008	11,954	12,907
Import	7,866	10,961	34,062	41,693	41,773	40,217	40,893	43,148
Export	-	-767	-514	-3,453	-3,349	-2,724	-2,520	-2,261
Transformation Sector	-	-	-	-46,494	-48,094	-48,197	-49,565	-49,252
Petroleum Refineries	-7,736	-11,806	-38,169	-46,494	-48,094	-48,197	-49,565	-49,252
Petroleum Products								
Primary Energy Supply	3,739	5,678	-7,243	-6,693	-6,935	-7,212	-8,340	-10,975
Import	4,020	7,731	1,179	1,980	1,382	825	366	431
Export	-14	-21	-4,919	-5,516	-6,836	-6,552	-9,071	-10,209
Transformation Sector	-	-	-	34,166	35,493	36,391	38,003	39,505
Power Generation	-2,982	-2,548	-2,344	-1,967	-1,946	-908	-387	-308
Petroleum Refineries	7,270	11,490	32,193	36,365	37,439	37,299	38,678	40,238
Final Energy Consumption	8,027	15,246	24,420	29,951	28,392	29,255	29,785	30,747
Industry	2,090	2,753	4,335	4,032	3,027	3,981	3,880	3,467
Transport	4,278	9,452	15,939	20,192	19,451	19,645	19,011	19,647
Residential	-	487	908	1,310	1,311	1,435	1,930	2,081
Commerce & Public Services	-	477	728	570	705	771	810	876
Others	1,659	2,077	2,510	3,848	3,898	3,424	4,155	4,676
Natural Gas								
Primary Energy Supply	-	5,710	19,620	22,788	22,097	22,925	25,497	31,631
Indigenous Production	-	5,710	17,685	15,068	14,144	14,611	17,236	23,337
Import	-	-	1,935	7,720	7,952	8,314	8,261	8,294
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-21,185	-19,946	-20,428	-22,293	-22,751
Power Generation	-	-4,216	-14,106	-21,185	-19,946	-20,428	-22,293	-22,751
Final Energy Consumption	-	267	1,389	2,067	2,151	2,497	3,204	4,822
Industry	-	266	1,386	2,017	2,071	2,296	2,540	2,346
Transport	-	-	2	50	80	200	664	1,280
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	0
Others	-	0	-	-0	0	-	-0	1,196
Electricity								
Power Generation	1,241	3,799	8,254	11,369	11,932	12,331	12,679	12,754
Thermal	1,131	3,370	7,734	9,684	10,026	10,153	10,360	10,167
Hydro	109	428	518	499	699	698	612	615
Nuclear	-	-	-	-	-	-	-	-
Others	-	1	2	1,187	1,207	1,480	1,707	1,972
Final Energy Consumption	1,131	3,297	7,562	10,387	10,951	11,413	11,608	11,628
Industry	555	1,542	3,452	4,853	5,061	5,220	4,898	4,874
Transport	-	-	3	5	5	12	5	5
Residential	3	0	0	2,203	2,322	2,412	2,476	2,612
Commerce & Public Services	-	0	0	3,256	3,486	3,686	4,142	4,050
Others	573	1,755	4,107	70	77	83	87	87

Major Economic Indicators of Thailand

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	47.26	56.67	62.35	65.95	66.51	66.98	67.39	67.76
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	37.27	79.36	122.73	157.38	165.40	173.74	178.06	173.91
Real Term (Billions of 2000 Price and 2000 PPP)	93.46	198.98	307.71	394.61	414.71	435.63	446.45	436.05
Nominal (Billions of Current USD)	32.35	85.34	122.73	176.35	207.09	246.98	272.58	263.71
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	789	1,400	1,968	2,387	2,487	2,594	2,642	2,566
Real Term (2000 Price and 2000 PPP)	1,977	3,511	4,935	5,984	6,236	6,504	6,625	6,435
Nominal (Current USD)	685	1,506	1,968	2,674	3,114	3,687	4,045	3,892
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	662.48	2,183.54	4,922.73	7,092.89	7,844.94	8,525.20	9,080.47	9,041.55
Household Final Consumption Expenditure, etc.	433.58	1,234.98	2,762.93	4,060.41	4,379.07	4,556.99	4,997.73	4,974.83
General Government Final Consumption Expenditure	81.43	205.35	557.81	843.65	925.99	1,038.77	1,128.23	1,202.70
Gross Fixed Capital Formation	183.99	881.76	1,081.42	2,049.82	2,203.97	2,249.94	2,488.94	2,208.40
Stock Change	9.07	21.21	42.74	180.34	15.94	4.12	131.41	-230.95
Exports of Goods and Services	159.73	745.29	3,287.28	5,218.08	5,777.55	6,259.58	6,941.52	6,187.75
Imports of Goods and Services	201.18	909.46	2,862.30	5,297.47	5,503.77	5,544.48	6,705.37	5,235.69
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	913.73	1,945.37	3,008.40	3,858.02	4,054.50	4,259.03	4,364.83	4,263.14
Household Final Consumption Expenditure, etc.	607.23	1,110.93	1,623.72	2,109.34	2,176.21	2,213.92	2,273.09	2,247.82
General Government Final Consumption Expenditure	106.94	171.94	277.13	344.92	352.51	386.62	404.54	428.19
Gross Fixed Capital Formation	269.63	759.87	597.44	902.42	937.28	950.97	962.35	875.63
Stock Change	6.45	20.65	25.64	76.60	6.85	2.02	58.56	-98.51
Exports of Goods and Services	195.23	709.65	1,947.08	2,554.38	2,788.03	3,006.05	3,159.12	2,758.77
Imports of Goods and Services	271.20	806.98	1,497.67	2,155.98	2,227.74	2,326.65	2,523.96	1,974.79
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	19.9	13.6	10.3	9.0	9.0	8.7	8.8	8.9
Industry	30.1	37.8	44.4	46.9	47.2	47.5	47.9	47.0
Services, etc.	50.0	48.6	45.3	44.0	43.8	43.7	43.2	44.1
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.	6.505	23.068	69.057	110.936	129.722	153.867	177.778	152.498
Imports, c.i.f.	9.214	33.045	61.924	118.178	128.773	139.966	178.746	133.801
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.902	-6.751	11.701	3.388	13.844	26.762	17.385	32.691
Current Account	-2.076	-7.281	9.313	-7.647	2.316	15.678	2.211	21.861
Overall Balance	-0.206	3.235	-1.806	5.417	12.669	17.077	24.440	24.131
Foreign Exchange Rate (THB/USD) *1	20.4764	25.5855	40.1118	40.2201	37.8820	34.5182	33.3133	34.2858
Purchasing Power Parity (THB/International Dollar) *1	13.1706	13.4796	15.9980	15.9321	16.2392	16.3199	16.6000	16.7682
Price Indices								
GDP Deflator (1988=100) *3	72.5	112.2	163.6	183.8	193.5	200.2	208.0	212.1
Wholesale Price Index (2005=100) *2	41.2	55.6	79.2	100.0	107.1	87.5	98.4	94.7
Consumer Price Index (2005=100) *2	37.4	57.5	89.4	100.0	104.6	107.0	112.8	111.8
Growth Rate (%) *3								
Real GDP	5.17	11.17	4.75	4.60	5.09	5.04	2.48	-2.33
Population	2.24	1.37	0.85	1.02	0.85	0.71	0.61	0.56
Price								
Wholesale Price Index	20.1	3.5	3.9	9.1	7.1	-18.3	12.4	-3.8
Consumer Price Index	19.7	5.9	1.6	4.5	4.6	2.3	5.4	-0.9

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"

: THB means Baht, USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Price of Thailand in 2009

Currency Exchange Rate

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

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	61.65	Crude Oil			Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG	THB / kg	11.08	LPG	THB / litre	9.79
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	THB / litre	15.66	Motor Gasoline (ULG 95)	THB / litre	37.47
Aviation Gasoline			Aviation Gasoline			Aviation Gasoline		
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel	THB / litre	20.50	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Other Kerosene			Other Kerosene	THB / litre	15.40	Other Kerosene	THB / litre	37.21
Gas/Diesel Oil	THB / litre	13.19	Gas/Diesel Oil	THB / litre	15.62	Gas/Diesel Oil (HSD)	THB / litre	22.71
Fuel Oil	THB / litre	15.51	Fuel Oil	THB / litre	12.85	Fuel Oil (1500)	THB / litre	19.83
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	USD / kscf	7.08	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	THB / kWh	1.45	Electricity			Industrial	THB / kWh	2.62
						Commercial	THB / kWh	3.54
						Residential	THB / kWh	3.38
						Others	THB / kWh	3.70
Other Energy Products			Other Energy Products			Other Energy Products		
						Charcoal	THB / kg	7.00
						Paddy Husk	THB / kg	2.00
						Bagasse	THB / kg	0.50
						Agricultural waste	THB / kg	1.00

3.20 United States of America

Energy Balance Table of United States of America

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	530,133	-	337,238	-	-	-	-	-	-
Import	12,540	217	535,097	80,666	39,496	2,232	2,849	131	8,203
Export	-34,049	-817	-8,594	-91,623	-9,967	-	-3,906	-227	-29,567
International Marine Bunkers	-	-	-	-24,076	-	-	-	-	-4,828
International Aviation Bunkers	-	-	-	-21,572	-	-	-21,572	-	-
Stock Changes	-23,134	87	-2,725	-4,041	-1,461	26	-728	-46	-3,159
Total Primary Energy Supply	485,490	-513	861,016	-60,646	28,068	2,258	-23,358	-142	-29,351
Transfers	-	-	-25,656	26,617	-19,949	-	-	-	-
Total Transformation Sector	-452,161	2,871	-816,863	858,025	407,534	9,201	70,528	1,092	204,334
Main Activity Producer	-436,870	-304	-	-9,307	-	-	-108	-63	-1,653
Autoproducers	-2,503	-567	-	-478	-	-	-	-5	-100
Gas Processing	-1,944	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-836,842	867,811	407,534	9,201	70,636	1,160	206,088
Coal Transformation	-10,843	3,742	-	-	-	-	-	-	-
Other Transformation	-	-	19,979	-	-	-	-	-	-
Loss & Own Use	-183	-989	-	-47,325	-11	-	-33	-	-101
Discrepancy	-13,300	1	-18,497	-1,904	-1,716	-	-1	-1	-86
Total Final Energy Consumption	19,847	1,370	-	774,768	413,926	11,460	47,136	949	174,796
Industry Sector	18,259	1,370	-	27,411	3,826	-	-	31	19,065
Iron and Steel	-	817	-	804	-	-	-	-	561
Chemical & Petrochemical	4,190	-	-	7,274	-	-	-	-	5,541
Non-metallic Minerals	4,716	-	-	4,074	-	-	-	-	3,958
Other Industries	9,352	553	-	15,259	3,826	-	-	31	9,005
Transport Sector	-	-	-	574,475	406,768	-	47,136	-	120,076
Domestic Air Transport	-	-	-	47,746	610	-	47,136	-	-
Road	-	-	-	514,354	402,732	-	-	-	111,219
Rail	-	-	-	8,082	-	-	-	-	8,082
Inland Waterways	-	-	-	3,517	3,426	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	775	-	-	-	-	775
Other Sector	1,588	-	-	51,837	3,332	-	-	917	35,655
Residential	-	-	-	22,159	-	-	-	775	14,386
Commerce and Public Services	1,588	-	-	15,713	1,282	-	-	118	10,411
Agriculture	-	-	-	13,964	2,050	-	-	24	10,858
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	121,045	-	11,460	-	-	-
2008									
Indigenous Production	579,299	-	312,865	-	-	-	-	-	-
Import	18,844	2,252	588,267	92,452	45,701	4,175	3,345	85	7,508
Export	-46,998	-1,224	-6,495	-85,297	-9,145	-	-3,491	-257	-27,744
International Marine Bunkers	-	-	-	-22,597	-	-	-	-	-4,350
International Aviation Bunkers	-	-	-	-23,816	-	-	-23,816	-	-
Stock Changes	-6,315	-94	-4,463	-491	683	74	50	99	-1,278
Total Primary Energy Supply	544,830	934	890,175	-39,749	37,238	4,249	-23,912	-73	-25,864
Transfers	-	-	-24,501	25,198	-22,087	-	-	-	-
Total Transformation Sector	-512,549	3,269	-839,946	880,437	401,291	7,362	76,010	842	220,130
Main Activity Producer	-492,094	-507	-	-11,157	-	-	-102	-72	-1,722
Autoproducers	-2,776	-827	-	-519	-	-	-	-5	-60
Gas Processing	-1,884	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-858,195	892,114	401,291	7,362	76,112	920	221,912
Coal Transformation	-15,795	4,602	-	-	-	-	-	-	-
Other Transformation	-	-	18,249	-	-	-	-	-	-
Loss & Own Use	-204	-1,823	-	-50,092	-13	-	-27	-	-92
Discrepancy	-7,613	15	-25,728	-1,626	-87	-	0	-	-1,425
Total Final Energy Consumption	24,464	2,395	-	814,169	416,342	11,611	52,072	769	192,750
Industry Sector	22,731	2,395	-	34,394	4,099	-	-	17	20,649
Iron and Steel	-	1,599	-	1,164	-	-	-	-	607
Chemical & Petrochemical	5,033	-	-	10,103	-	-	-	-	6,002
Non-metallic Minerals	6,911	-	-	4,454	-	-	-	-	4,287
Other Industries	10,787	796	-	18,673	4,099	-	-	17	9,753
Transport Sector	-	-	-	597,582	409,203	-	52,072	-	135,817
Domestic Air Transport	-	-	-	52,752	681	-	52,072	-	-
Road	-	-	-	530,317	405,052	-	-	-	124,850
Rail	-	-	-	10,084	-	-	-	-	10,084
Inland Waterways	-	-	-	3,546	3,471	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	882	-	-	-	-	882
Other Sector	1,733	-	-	52,879	3,040	-	-	752	36,284
Residential	-	-	-	23,080	-	-	-	610	15,269
Commerce and Public Services	1,733	-	-	14,628	1,104	-	-	122	8,862
Agriculture	-	-	-	15,172	1,936	-	-	20	12,153
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	129,314	-	11,611	-	-	-

unit: ktoe

Fuel Oil	LPG	Refinery Gas	Ethane	Other Products	Gas	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	-	478,708	25,663	216,353	23,034	83,768	-	-	1,694,897
19,295	1,049	-	9	7,402	87,033	-	-	-	544	4,488	-	720,587
-22,509	-	-	-	-25,447	-24,634	-	-	-	-566	-1,560	-	-161,843
-19,248	-	-	-	-	-	-	-	-	-	-	-	-24,076
-	-	-	-	-	-	-	-	-	-	-	-	-21,572
300	120	-	425	482	-6,748	-	-	-	-254	-	-	-36,815
-22,162	1,169	-	434	-17,563	534,359	25,663	216,353	23,034	83,492	2,929	-	2,171,177
-	24,161	-	19,697	2,708	-	-	-	-	-	-	-	960
29,296	20,638	38,427	494	76,479	-171,441	-25,663	-216,353	-21,440	-40,983	360,186	12,433	-511,388
-4,150	-	-	-	-3,333	-159,754	-25,493	-216,353	-21,307	-13,513	347,355	12,433	-523,114
-115	-	-	-	-258	-12,931	-170	-	-133	-5,660	12,831	-	-9,611
-	-	-	-	-	1,244	-	-	-	-	-	-	-700
33,561	20,638	38,427	494	80,071	-	-	-	-	-	-	-	30,969
-	-	-	-	-	-	-	-	-	-	-	-	-7,102
-	-	-	-	-	-	-	-	-	-21,810	-	-	-1,831
-197	-542	-34,988	-1	-11,452	-46,234	-	-	-	-	-49,886	-5,639	-150,255
-429	0	1	-0	329	-4,602	-	-	-	60	-	-	-38,242
6,507	45,426	3,441	20,625	50,502	312,081	-	-	1,594	42,569	313,229	6,793	1,472,251
3,749	740	-	-	-	105,719	-	-	106	29,673	68,720	5,368	256,626
230	12	-	-	-	7,363	-	-	-	-	5,987	197	15,168
1,733	-	-	-	-	32,311	-	-	-	174	18,919	3,289	66,159
36	80	-	-	-	11,183	-	-	-	433	3,162	4	23,573
1,749	647	-	-	-	54,861	-	-	106	29,066	40,652	1,877	151,726
91	403	-	-	-	14,585	-	-	-	-	671	-	589,731
-	-	-	-	-	-	-	-	-	-	-	-	47,746
-	403	-	-	-	677	-	-	-	-	-	-	515,031
-	-	-	-	-	-	-	-	-	-	671	-	8,753
91	-	-	-	-	-	-	-	-	-	-	-	3,517
-	-	-	-	-	13,907	-	-	-	-	-	-	13,907
-	-	-	-	-	-	-	-	-	-	-	-	775
2,667	9,265	-	-	-	182,796	-	-	1,488	12,896	243,838	1,426	495,869
-	6,997	-	-	-	111,088	-	-	1,407	10,292	117,154	-	262,100
2,667	1,235	-	-	-	71,709	-	-	81	2,263	113,813	1,426	206,593
-	1,033	-	-	-	-	-	-	-	341	-	-	14,306
-	-	-	-	-	-	-	-	-	-	12,870	-	12,870
-	35,018	3,441	20,625	50,502	8,981	-	-	-	-	-	-	130,026
-	-	-	-	-	469,800	24,252	218,332	21,289	84,200	-	-	1,710,037
20,696	1,183	-	8	9,751	92,333	-	-	-	1,685	4,904	-	800,736
-19,813	-	-	-	-24,846	-22,096	-	-	-	-1,442	-2,081	-	-165,633
-18,248	-	-	-	-	-	-	-	-	-	-	-	-22,597
-	-	-	-	-	-	-	-	-	-	-	-	-23,816
852	-366	-	-804	199	906	-	-	-	-297	-	-	-10,753
-16,513	817	-	-795	-14,896	540,942	24,252	218,332	21,289	84,147	2,823	-	2,287,974
-	25,320	-	17,894	4,071	-	-	-	-	-	-	-	697
29,366	21,036	38,945	467	84,987	-167,115	-24,252	-218,332	-19,676	-38,669	375,670	12,746	-548,416
-5,513	-	-	-	-3,748	-155,341	-24,100	-218,332	-19,578	-13,493	362,508	12,746	-559,347
-139	-	-	-	-315	-12,951	-152	-	-98	-5,959	13,162	-	-10,119
-	-	-	-	-	1,177	-	-	-	-	-	-	-707
35,018	21,036	38,945	467	89,050	-	-	-	-	-	-	-	33,918
-	-	-	-	-	-	-	-	-	-	-	-	-11,193
-	-	-	-	-	-	-	-	-	-19,217	-	-	-968
-262	-530	-37,729	-4	-11,436	-44,960	-	-	-	-	-50,590	-5,781	-153,451
-382	112	-	0	156	-39	-0	-	-	-1	-0	0	-34,991
12,209	46,755	1,217	17,563	62,882	328,828	-	-	1,613	45,476	327,903	6,965	1,551,813
8,866	763	-	-	-	116,612	-	-	118	32,044	78,681	5,503	292,479
544	12	-	-	-	8,122	-	-	-	-	6,855	202	17,942
4,101	-	-	-	-	35,640	-	-	-	229	21,662	3,373	76,040
84	82	-	-	-	12,336	-	-	-	467	3,621	4	27,792
4,137	668	-	-	-	60,514	-	-	118	31,347	46,544	1,925	170,705
75	415	-	-	-	15,698	-	-	-	-	662	-	613,942
-	-	-	-	-	-	-	-	-	-	-	-	52,752
-	415	-	-	-	605	-	-	-	-	-	-	530,922
-	-	-	-	-	-	-	-	-	-	662	-	10,747
75	-	-	-	-	-	-	-	-	-	-	-	3,546
-	-	-	-	-	15,093	-	-	-	-	-	-	15,093
-	-	-	-	-	-	-	-	-	-	-	-	882
3,268	9,536	-	-	-	186,611	-	-	1,495	13,432	248,560	1,462	506,171
-	7,202	-	-	-	113,955	-	-	1,404	10,771	118,678	-	267,889
3,268	1,271	-	-	-	72,656	-	-	91	2,304	114,894	1,462	207,767
-	1,063	-	-	-	-	-	-	-	357	-	-	15,529
-	-	-	-	-	-	-	-	-	-	14,987	-	14,987
-	36,042	1,217	17,563	62,882	9,906	-	-	-	-	-	-	139,220

Major Energy Indicators of United States of America

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	1,748,648	1,916,495	2,279,189	2,329,484	2,305,474	2,345,626	2,287,974	2,171,177
Indigenous Production	1,481,448	1,653,987	1,672,997	1,641,705	1,663,055	1,677,525	1,710,037	1,694,897
Import	376,915	452,509	702,062	841,978	842,856	840,973	800,736	720,587
Export	-88,326	-110,606	-95,684	-105,877	-113,384	-127,430	-165,633	-161,843
Final Energy Consumption	1,434,285	1,291,622	1,545,626	1,572,358	1,567,467	1,587,655	1,551,813	1,472,251
Industry	594,201	281,801	329,457	282,391	296,478	294,356	292,479	256,626
Transport	470,315	487,565	590,374	628,258	632,610	637,701	613,942	589,731
Residential	-	209,907	264,075	271,689	253,530	267,367	267,889	262,100
Commerce & Public Services	-	159,284	193,071	200,410	197,460	204,727	207,767	206,593
Others	369,770	153,065	168,649	189,610	187,390	183,503	169,736	157,201
Coal, Coal Products								
Primary Energy Supply	371,742	460,199	533,627	558,412	550,515	554,803	545,764	484,978
Indigenous Production	445,217	542,320	536,856	565,282	577,566	568,497	579,299	530,133
Import	1,105	2,119	10,014	19,598	23,188	22,208	21,096	12,757
Export	-59,177	-67,987	-38,315	-29,460	-29,491	-34,691	-48,222	-34,866
Transformation Sector	-	-406,761	-514,084	-512,196	-507,126	-513,843	-509,281	-449,290
Power Generation	-290,071	-391,176	-498,080	-503,961	-496,078	-504,942	-496,203	-440,245
Final Energy Consumption	113,084	53,691	29,737	28,624	28,289	27,996	26,859	21,217
Industry	100,038	44,053	27,519	26,091	26,733	26,245	25,126	19,629
Transport	-	-	-	-	-	-	-	-
Residential	-	1,487	1,327	-	-	-	-	-
Commerce & Public Services	-	2,412	890	2,103	1,534	1,703	1,733	1,588
Others	13,046	5,739	-	430	23	48	-	-
Crude Oil								
Primary Energy Supply	741,462	783,541	887,052	911,612	917,935	910,920	890,175	861,016
Indigenous Production	490,831	432,544	365,606	322,545	317,807	317,454	312,865	337,238
Import	268,423	351,037	524,256	599,493	604,718	597,916	588,267	535,097
Export	-14,570	-2,100	-6,151	-4,911	-5,605	-5,830	-6,495	-8,594
Transformation Sector	-	-756,185	-836,351	-843,940	-848,200	-845,453	-839,946	-816,863
Petroleum Refineries	-701,883	-756,185	-839,338	-851,425	-858,563	-858,558	-858,195	-836,842
Petroleum Products								
Primary Energy Supply	66,318	-26,699	-12,658	19,255	-3,902	-7,583	-39,749	-60,646
Import	82,411	62,247	75,823	117,923	112,647	108,061	92,452	80,666
Export	-13,107	-36,779	-44,383	-53,109	-59,620	-65,725	-85,297	-91,623
Transformation Sector	-	726,569	819,580	844,674	866,436	867,569	880,437	858,025
Power Generation	-62,925	-27,247	-29,565	-30,044	-15,943	-16,230	-11,676	-9,785
Petroleum Refineries	714,946	753,816	849,145	874,719	882,379	883,798	892,114	867,811
Final Energy Consumption	759,089	683,288	798,743	855,741	857,334	852,104	814,169	774,768
Industry	228,529	44,253	25,661	35,150	35,494	31,129	34,394	27,411
Transport	455,308	471,796	574,812	613,448	617,802	621,921	597,582	574,475
Residential	-	26,368	31,906	28,784	24,371	25,144	23,080	22,159
Commerce & Public Services	-	21,308	16,656	16,696	14,927	14,534	14,628	15,713
Others	75,252	119,563	149,708	161,663	164,740	159,376	144,486	135,009
Natural Gas								
Primary Energy Supply	473,432	438,370	547,851	507,155	502,216	542,711	540,942	534,359
Indigenous Production	451,504	418,210	446,947	421,558	431,698	449,905	469,800	478,708
Import	22,826	35,170	87,781	100,874	97,231	107,228	92,333	87,033
Export	-1,120	-1,976	-5,574	-16,694	-16,581	-18,873	-22,096	-24,634
Transformation Sector	-	-88,608	-135,773	-153,459	-157,104	-171,969	-167,115	-171,441
Power Generation	-86,421	-89,762	-136,917	-154,656	-158,371	-173,162	-168,292	-172,685
Final Energy Consumption	376,869	303,077	359,988	317,072	304,330	321,791	328,828	312,081
Industry	190,395	109,917	137,920	107,001	113,441	116,875	116,612	105,719
Transport	14,739	15,414	15,182	14,164	14,175	15,078	15,698	14,585
Residential	-	102,586	116,262	112,649	101,854	110,319	113,955	111,088
Commerce & Public Services	-	61,269	73,195	68,874	65,223	69,591	72,656	71,709
Others	171,735	13,890	17,429	14,384	9,638	9,929	9,906	8,981
Electricity								
Power Generation	196,478	276,801	348,529	369,316	369,871	374,086	375,670	360,186
Thermal	150,263	157,406	231,904	248,292	248,688	253,848	252,572	234,853
Hydro	23,719	24,851	24,079	25,622	27,321	23,697	24,252	25,663
Nuclear	21,811	53,127	69,295	70,425	70,900	72,676	72,777	72,118
Others	685	41,418	23,251	24,977	22,962	23,866	26,069	27,553
Final Energy Consumption	180,358	226,487	300,954	319,590	320,176	329,018	327,903	313,229
Industry	70,353	74,523	98,222	79,449	78,837	79,879	78,681	68,720
Transport	268	355	380	646	633	703	662	671
Residential	-	79,466	102,550	116,894	116,231	119,733	118,678	117,154
Commerce & Public Services	-	72,144	99,786	109,657	111,778	114,923	114,894	113,813
Others	109,736	-	15	12,945	12,697	13,780	14,987	12,870

Major Economic Indicators of United States of America

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	227.23	249.62	282.17	295.75	298.59	301.58	304.38	307.01
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	5,142.14	7,063.99	9,898.80	11,150.37	11,448.54	11,670.85	11,668.45	11,357.07
Real Term (Billions of 2000 Price and 2000 PPP)	5,142.14	7,063.99	9,898.80	11,150.37	11,448.54	11,670.85	11,668.45	11,357.07
Nominal (Billions of Current USD)	2,767.50	5,750.80	9,898.80	12,579.70	13,336.20	13,995.00	14,296.90	14,043.90
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	22,630	28,299	35,081	37,702	38,342	38,699	38,336	36,993
Real Term (2000 Price and 2000 PPP)	22,630	28,299	35,081	37,702	38,342	38,699	38,336	36,993
Nominal (Current USD)	12,180	23,038	35,081	42,534	44,663	46,406	46,971	45,745
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	2,767.50	5,750.80	9,898.80	12,579.70	13,336.20	13,995.00	14,296.90	14,043.90
Household Final Consumption Expenditure, etc.	1,755.90	3,835.40	6,830.40	8,819.00	9,322.70	9,806.30	10,104.40	10,001.30
General Government Final Consumption Expenditure	463.80	980.50	1,413.70	1,981.40	2,099.90	2,225.90	2,399.30	2,429.90
Gross Fixed Capital Formation	565.20	1,003.40	1,982.20	2,452.40	2,622.80	2,647.00	2,544.50	2,125.30
Stock Change	-4.30	13.10	54.60	49.60	60.20	29.70	-40.90	-126.20
Exports of Goods and Services	280.80	552.10	1,093.20	1,305.10	1,471.00	1,661.70	1,843.40	1,578.40
Imports of Goods and Services	293.80	629.70	1,475.30	2,027.80	2,240.30	2,375.70	2,553.80	1,964.70
Real GDP & its Components (Billions of 2000 USD) *1								
Gross Domestic Product	5,142.14	7,063.99	9,898.80	11,150.37	11,448.54	11,670.85	11,668.45	11,357.07
Household Final Consumption Expenditure, etc.	3,371.14	4,760.96	6,830.40	7,913.54	8,139.40	8,331.38	8,315.72	8,222.52
General Government Final Consumption Expenditure	962.87	1,301.79	1,413.70	1,617.36	1,636.38	1,658.66	1,706.09	1,738.49
Gross Fixed Capital Formation	770.12	1,071.77	2,036.70	2,236.96	2,295.61	2,237.05	2,063.70	1,672.56
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	323.55	552.17	1,093.20	1,200.65	1,308.20	1,430.00	1,515.83	1,371.40
Imports of Goods and Services	310.10	605.45	1,475.30	1,824.27	1,935.28	1,987.55	1,935.73	1,667.73
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	0.9	1.0	1.1	1.2	1.1	1.0	1.1	1.1
Industry	24.8	22.5	21.9	20.4	20.3	20.3	19.8	18.8
Services, etc.	74.2	76.5	77.0	78.4	78.6	78.7	79.2	80.1
Industrial Production Index (2005=100) *2	52.5	64.9	96.5	100.0	102.2	105.0	101.5	92.1
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	225.566	393.592	781.918	901.082	1,025.967	1,148.199	1,287.442	1,056.043
Imports, c.i.f.	256.984	516.987	1,259.300	1,732.706	1,918.077	2,020.403	2,169.487	1,605.296
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-25.533	-110.262	-444.310	-780.872	-836.664	-820.144	-831.680	-503.578
Current Account	2.127	-78.952	-416.374	-747.595	-802.640	-718.095	-668.859	-378.435
Overall Balance	8.144	2.233	0.295	-14.100	-2.392	0.125	4.839	52.182
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 (2000=100) *3	53.8	81.4	100.0	112.8	116.5	119.9	122.5	123.7
Wholesale Price Index (2005=100) *2	57.1	73.9	84.3	100.0	104.7	109.7	120.5	109.9
Consumer Price Index (2005=100) *2	55.2	73.7	86.1	100.0	103.4	108.1	116.1	111.6
Growth Rate (%) *3								
Real GDP	-0.29	1.86	4.17	3.06	2.67	1.94	-0.02	-2.67
Population	0.96	1.14	1.12	0.92	0.96	1.00	0.93	0.86
Price								
Wholesale Price Index	14.1	3.6	5.8	7.3	4.7	4.8	9.8	-8.8
Consumer Price Index	14.2	5.4	4.7	5.8	3.4	4.5	7.4	-3.9

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"

: USD means United States Dollar

: PPP means Purchasing Power Parity

Energy Price of United States in 2009

Currency Exchange Rate

	Local currency / USD	-
Currency Exchange Rate		
Local Currency Unit		USD

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	US\$/Short ton	57.10	Anthracite		
Other bituminous coal			Other bituminous coal	US\$/Short ton	55.44	Other bituminous coal		
Sub-bituminous Coal			Sub-bituminous Coal	US\$/Short ton	13.35	Sub-bituminous Coal		
Lignite			Lignite	US\$/Short ton	17.26	Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	US\$/Short ton	268.37	Coke	US\$/Short ton	338.83	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 / Barrel	59.17	Crude Oil	USD / Barrel	59.29	Crude Oil		
Natural Gas Liquids			Natural Gas Liquids			Natural Gas Liquids		
Ethane			Ethane			Ethane		
LPG			LPG	USD / Gallon	0.92	LPG	USD / Gallon	1.22
Naphtha			Naphtha			Naphtha		
Motor Gasoline			Motor Gasoline	USD / Gallon	1.77	Motor Gasoline	USD / Gallon	1.89
Aviation Gasoline			Aviation Gasoline	USD / Gallon	2.48	Aviation Gasoline	USD / Gallon	2.44
Gasoline Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Kerosene Type Jet Fuel			Kerosene Type Jet Fuel	USD / Gallon	1.72	Kerosene Type Jet Fuel	USD / Gallon	1.70
Other Kerosene			Other Kerosene	USD / Gallon	1.84	Other Kerosene	USD / Gallon	2.68
Gas/Diesel Oil			Gas/Diesel Oil	USD / Gallon	1.71	Gas/Diesel Oil	USD / Gallon	1.83
Fuel Oil			Fuel Oil	USD / Gallon	1.34	Fuel Oil	USD / Gallon	1.34
White Spirit SBP			White Spirit SBP			White Spirit SBP		
Lubricants			Lubricants			Lubricants		
Bitumen			Bitumen			Bitumen		
Paraffin Waxes			Paraffin Waxes			Paraffin Waxes		
Petroleum Coke			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Natural Gas	USD / 1000ft3	4.59	Natural Gas	USD / 1000ft3	6.46	Natural Gas	USD / 1000ft3	12.14
Liquefied Natural Gas	USD / 1000ft3	4.19	Liquefied Natural Gas			Liquefied Natural Gas		
Compressed Natural Gas			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Electricity			Electricity			Industrial	cents/kwh	6.81
						Commercial	cents/kwh	10.17
						Residential	cents/kwh	11.51
						Others	cents/kwh	10.65
Other Energy Products			Other Energy Products			Other Energy Products		
	US\$/Short ton	63.91						

3.21 Viet Nam

Energy Balance Table of Viet Nam

	Coal	Coal Products	Crude Oil & NGL	Petroleum Products					
				Total	Gasoline	Naphtha	Jet Fuel	Kerosene	Gas/Diesel Oil
2009									
Indigenous Production	24,480	-	16,593	724	-	-	-	-	-
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	1,972	14,982	3,539	3	553	106	6,489
Transfers	-	-	-	-	-	-	-	-	-
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	-	-	-
2008									
Indigenous Production	22,275	-	15,172	691	-	-	-	-	-
Import	385	66	-	14,757	3,691	-	568	153	6,741
Export	-10,839	-	-14,000	-1,053	-189	-	-72	-35	-377
International Marine Bunkers	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	-	-	-	-	-
Stock Changes	129	-	-1,173	-	-	-	-	-	-
Total Primary Energy Supply	11,951	66	-	14,394	3,502	-	496	118	6,364
Transfers	-	-	-	-	-	-	-	-	-
Total Transformation Sector	-3,728	-	-	-592	-	-	-	-	-128
Main Activity Producer	-3,348	-	-	-228	-	-	-	-	-107
Autoproducers	-380	-	-	-364	-	-	-	-	-21
Gas Processing	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Loss & Own Use	-	-	-	-	-	-	-	-	-
Discrepancy	-22	21	-	3	-1	-	-13	94	-38
Total Final Energy Consumption	8,201	88	-	13,806	3,501	-	483	212	6,199
Industry Sector	6,762	88	-	2,025	-	-	-	12	1,062
Iron and Steel	-	-	-	-	-	-	-	-	-
Chemical & Petrochemical	-	-	-	-	-	-	-	-	-
Non-metallic Minerals	-	-	-	-	-	-	-	-	-
Other Industries	6,762	88	-	2,025	-	-	-	12	1,062
Transport Sector	-	-	-	8,622	3,379	-	483	-	4,393
Domestic Air Transport	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Inland Waterways	-	-	-	-	-	-	-	-	-
Pipeline Transport	-	-	-	-	-	-	-	-	-
Non-specified Transport	-	-	-	8,622	3,379	-	483	-	4,393
Other Sector	1,439	-	-	1,962	122	-	-	200	744
Residential	1,070	-	-	701	-	-	-	99	55
Commerce and Public Services	347	-	-	753	-	-	-	100	317
Agriculture	22	-	-	508	122	-	-	-	372
Non-specified Others	-	-	-	-	-	-	-	-	-
Non-energy	-	-	-	1,197	-	-	-	-	-

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
-	281	-	-	443	7,101	2,578	-	-	-	-	-	51,477
1,838	843	-	-	968	-	-	-	-	-	353	-	15,667
-397	-	-	-	-0	-	-	-	-	-	-32	-	-29,454
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
317	-	-	-	-	-	-	-	-	-	-	-	1,910
1,758	1,124	-	-	1,411	7,101	2,578	-	-	-	321	-	39,600
-	-	-	-	-	-	-	-	-	-	-	-	-
-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
-	278	-	-	412	6,624	2,235	-	-	-	-	-	46,997
2,749	631	-	-	224	-	-	-	-	-	277	-	15,485
-381	-	-	-	-	-216	-	-	-	-	-	-	-26,108
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-1,044
2,368	910	-	-	636	6,408	2,235	-	-	-	277	-	35,331
-	-	-	-	-	-	-	-	-	-	-	-	-
-464	-	-	-	-	-5,693	-2,235	-	-	-	6,282	-	-5,965
-121	-	-	-	-	-5,454	-2,235	-	-	-	5,936	-	-5,329
-343	-	-	-	-	-239	-	-	-	-	346	-	-636
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-175	-	-	-	-	-728	-	-903
-610	10	-	-	561	-	-	-	-	-	13	-	16
1,294	920	-	-	1,197	540	-	-	-	-	5,844	-	28,479
808	143	-	-	-	540	-	-	-	-	3,026	-	12,441
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
808	143	-	-	-	540	-	-	-	-	3,026	-	12,441
367	-	-	-	-	-	-	-	-	-	44	-	8,666
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
367	-	-	-	-	-	-	-	-	-	44	-	8,666
119	777	-	-	-	-	-	-	-	-	2,774	-	6,175
15	531	-	-	-	-	-	-	-	-	2,242	-	4,012
90	246	-	-	-	-	-	-	-	-	476	-	1,576
14	-	-	-	-	-	-	-	-	-	57	-	587
-	-	-	-	-	-	-	-	-	-	-0	-	-0
-	-	-	-	1,197	-	-	-	-	-	-	-	1,197

Major Energy Indicators of Viet Nam

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	1980	1990	2000	2005	2006	2007	2008	2009
Total								
Primary Energy Supply	-	5,414	14,841	25,769	28,769	32,062	35,331	39,600
Indigenous Production	-	5,811	25,777	45,190	48,300	49,170	46,997	51,477
Import	-	2,947	8,885	12,331	12,317	15,499	15,485	15,667
Export	-	-3,125	-18,650	-30,064	-30,976	-34,642	-26,108	-29,454
Final Energy Consumption	-	4,212	11,927	20,905	22,779	25,600	28,479	32,071
Industry	-	1,713	4,653	8,235	9,049	10,197	12,441	13,724
Transport	-	1,412	3,763	6,898	7,560	8,115	8,666	10,274
Residential	-	481	1,878	3,262	3,596	3,755	4,012	4,414
Commerce & Public Services	-	334	1,095	1,665	1,600	1,546	1,576	1,646
Others	-	272	537	846	974	1,988	1,785	2,013
Coal, Coal Products								
Primary Energy Supply	-	2,212	4,372	7,082	9,045	9,681	12,017	12,645
Indigenous Production	-	2,597	6,501	18,142	21,790	24,186	22,275	24,480
Import	-	-	-	57	64	439	452	508
Export	-	-442	-1,821	-10,072	-11,936	-17,854	-10,839	-13,995
Transformation Sector	-	-	-	-2,132	-3,517	-3,592	-3,728	-3,680
Power Generation	-	-888	-1,150	-2,132	-3,517	-3,592	-3,728	-3,680
Final Energy Consumption	-	1,324	3,223	4,950	5,528	6,089	8,289	8,966
Industry	-	1,019	2,339	3,734	4,176	4,732	6,849	7,506
Transport	-	14	-	-	-	-	-	-
Residential	-	207	584	861	1,004	1,008	1,070	1,089
Commerce & Public Services	-	19	276	333	327	328	347	350
Others	-	64	24	22	22	21	22	21
Crude Oil								
Primary Energy Supply	-	-	20	-	-	-	-	1,972
Indigenous Production	-	2,750	16,584	18,935	17,510	16,207	15,172	16,593
Import	-	-	-	-	-	-	-	-
Export	-	-2,664	-15,701	-18,290	-17,510	-15,333	-14,000	-13,614
Transformation Sector	-	-	-	-	-	-	-	-1,972
Petroleum Refineries	-	-	-	-	-	-	-	-1,972
Petroleum Products								
Primary Energy Supply	-	2,737	7,757	12,533	12,777	14,534	14,394	14,982
Import	-	2,947	8,885	12,274	12,170	14,834	14,757	14,806
Export	-	-19	-1,128	-415	-	-969	-1,053	-1,813
Transformation Sector	-	-	-	-678	-483	-821	-592	868
Power Generation	-	-381	-1,310	-678	-483	-821	-592	-646
Petroleum Refineries	-	-	-	-	-	-	-	1,515
Final Energy Consumption	-	2,356	6,759	11,855	12,294	13,713	13,806	15,851
Industry	-	449	1,515	2,499	2,235	2,158	2,025	2,146
Transport	-	1,393	3,742	6,898	7,560	8,078	8,622	10,274
Residential	-	76	336	727	731	727	701	816
Commerce & Public Services	-	265	690	958	864	832	753	683
Others	-	174	476	774	903	1,918	1,706	1,931
Natural Gas								
Primary Energy Supply	-	3	1,440	4,649	5,108	5,653	6,408	7,101
Indigenous Production	-	3	1,440	5,935	6,638	6,139	6,624	7,101
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-1,286	-1,530	-486	-216	-
Transformation Sector	-	-	-	-4,549	-4,872	-4,916	-5,693	-6,462
Power Generation	-	-3	-1,102	-4,549	-4,872	-4,916	-5,693	-6,462
Final Energy Consumption	-	-	18	100	326	542	540	639
Industry	-	-	18	100	326	542	540	639
Transport	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commerce & Public Services	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Electricity								
Power Generation	-	746	2,284	4,598	5,285	5,750	6,282	6,837
Thermal	-	285	1,033	3,093	3,530	3,782	4,047	4,258
Hydro	-	462	1,251	1,505	1,755	1,968	2,235	2,578
Nuclear	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Final Energy Consumption	-	532	1,927	3,967	4,630	5,256	5,844	6,616
Industry	-	245	782	1,870	2,312	2,765	3,026	3,434
Transport	-	5	21	-	-	37	44	-
Residential	-	198	958	1,674	1,862	2,019	2,242	2,509
Commerce & Public Services	-	50	130	374	408	386	476	613
Others	-	34	37	49	49	49	57	60

Major Economic Indicators of Viet Nam

	1980	1990	2000	2005	2006	2007	2008	2009
Population (Millions) *1	53.70	66.20	77.64	83.11	84.14	85.15	86.21	87.28
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	N.A.	15.02	31.17	44.77	48.45	52.55	55.87	58.84
Real Term (Billions of 2000 Price and 2000 PPP)	N.A.	52.95	109.90	157.84	170.83	185.28	196.97	207.45
Nominal (Billions of Current USD)	N.A.	6.47	31.17	52.92	60.91	71.02	91.09	97.18
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	N.A.	227	402	539	576	617	648	674
Real Term (2000 Price and 2000 PPP)	N.A.	800	1,416	1,899	2,030	2,176	2,285	2,377
Nominal (Current USD)	N.A.	98	402	637	724	834	1,057	1,113
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	N.A.	41,955	441,646	839,211	974,266	1,143,715	1,485,038	1,658,390
Household Final Consumption Expenditure, etc.	N.A.	35,559	293,507	533,141	617,182	740,615	1,000,972	1,102,279
General Government Final Consumption Expenditure	N.A.	5,177	28,346	51,652	58,734	69,247	90,904	104,540
Gross Fixed Capital Formation	N.A.	N.A.	122,101	275,841	324,949	437,702	513,987	572,526
Stock Change	N.A.	N.A.	8,670	22,702	33,680	55,598	75,759	59,800
Exports of Goods and Services	N.A.	15,120	243,049	582,069	717,109	879,461	1,157,178	1,132,688
Imports of Goods and Services	N.A.	18,996	253,927	617,157	761,547	1,060,763	1,383,006	1,304,351
Real GDP & its Components (Billions of 1994 VND) *1								
Gross Domestic Product	N.A.	131,844	273,666	393,031	425,373	461,344	490,458	516,568
Household Final Consumption Expenditure, etc.	N.A.	N.A.	182,420	254,484	275,723	305,504	334,046	346,352
General Government Final Consumption Expenditure	N.A.	N.A.	18,245	25,620	27,797	30,272	32,549	35,021
Gross Fixed Capital Formation	N.A.	N.A.	78,552	133,141	146,325	181,673	188,647	205,107
Stock Change	N.A.	N.A.	4,944	10,150	13,922	21,518	27,301	20,153
Exports of Goods and Services	N.A.	22,632	141,911	325,707	292,911	325,974	342,432	380,373
Imports of Goods and Services	N.A.	30,495	151,996	350,145	323,462	412,796	444,216	473,821
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	32	23	20	19	18	18	17
Industry	N.A.	25	35	40	41	42	42	42
Services, etc.	N.A.	43	41	40	40	40	41	41
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.	0.338	2.404	14.483	32.442	39.826	48.561	62.685	57.096
Imports, c.i.f.	1.314	2.752	15.638	36.761	45.015	62.682	80.714	69.949
Balance of Payments (Billions of Current USD) *1								
Trade Balance	N.A.	N.A.	0.375	-2.439	-2.776	-10.438	-12.782	-8.306
Current Account	N.A.	N.A.	1.106	-0.560	-0.164	-6.953	-10.787	-6.116
Overall Balance	N.A.	N.A.	0.110	2.130	4.324	10.212	0.474	-7.756
Foreign Exchange Rate (VND/USD) *1	N.A.	6,482.80	14,167.75	15,858.92	15,994.25	16,105.13	16,302.25	17,065.08
Purchasing Power Parity (VND/International Dollar) *1	N.A.	973.31	4,018.45	4,712.69	4,895.89	5,147.87	6,153.37	6,464.62
Price Indices								
GDP Deflator (1994=100) *3	N.A.	31.8	161.4	213.5	229.0	247.9	302.8	321.0
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.	N.A.	80.3	100.0	107.4	116.3	143.2	153.3
Growth Rate (%) *3								
Real GDP	N.A.	5.10	6.79	8.44	8.23	8.46	6.31	5.32
Population	2.14	2.20	0.16	1.31	1.24	1.21	1.24	1.24
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.	N.A.	-1.7	8.3	7.4	8.3	23.1	7.1

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

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

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

Note

: N.A. means "not available"

: VND means Dong, USD means United States Dollar

: PPP means Purchasing Power Parity

3.22 APEC Region

3.2.2.1 Primary Energy Supply Table

Primary Energy Supply Table in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	296,282	19,905	390,442	9,241	1,897,388	65	290,486	94,020	47,139
Import	40,563	109	79,946	22,064	331,685	30,381	37,181	396,200	242,433
Export	-203,483	-17,104	-221,433	-1,117	-49,650	-1,101	-168,980	-18,954	-44,330
International Marine Bunkers	-825	-	-471	-816	-1,130	-9,947	-	-4,980	-8,398
International Aviation Bunkers	-3,119	-86	-682	-439	-4,389	-4,769	-	-5,254	-3,689
Stock Change	-2,477	-145	6,930	246	-56,060	-1,229	-671	4,256	-1,147
Total	126,941	2,679	254,730	29,178	2,117,844	13,400	158,016	465,288	232,007
Coal & Coal Products									
Indigenous Production	222,226	-	31,460	352	1,557,291	-	150,835	654	1,159
Import	-	-	8,233	3,335	72,637	7,767	40	98,435	62,923
Export	-169,045	-	-16,974	-	-11,866	-0	-116,424	-580	-
Stock Change	-2,251	-	1,105	-49	-49,295	-613	-1,647	150	762
Total	50,930	-	23,824	3,639	1,568,767	7,154	32,805	98,659	64,844
Crude oil & Petroleum Products									
Indigenous Production	25,503	9,301	156,886	672	189,490	-	54,431	798	3,418
Import	35,441	109	52,820	17,385	251,424	19,318	37,140	221,986	149,277
Export	-16,418	-8,369	-120,899	-1,117	-33,302	-778	-20,376	-18,374	-44,330
International Marine Bunkers	-825	-	-471	-816	-1,130	-9,947	-	-4,980	-8,398
International Aviation Bunkers	-3,119	-86	-682	-439	-4,389	-4,769	-	-5,254	-3,689
Stock Change	-226	-145	819	280	-6,765	-835	976	4,091	-2,962
Total	40,356	811	88,473	15,964	395,328	2,988	72,172	198,267	93,315
Natural Gas									
Indigenous Production	41,184	10,604	135,288	993	79,385	-	77,022	3,326	449
Import	5,122	-	17,066	1,228	7,107	2,293	-	75,778	30,212
Export	-18,020	-8,735	-78,677	-	-2,988	-	-32,180	-	-
Stock Change	-	-	5,006	15	-	219	-	15	1,053
Total	28,286	1,868	78,683	2,236	83,505	2,512	44,842	79,120	31,713
Nuclear Power									
Indigenous Production	-	-	23,563	-	18,277	-	-	71,574	38,509
Hydro Power									
Indigenous Production	1,057	-	31,301	2,165	52,945	-	954	7,089	485
Geothermal, Solar, etc									
Indigenous Production	548	-	402	7	-	0	7,244	3,260	160

Primary Energy Supply Table in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Primary Energy									
Indigenous Production	287,998	21,001	406,690	9,011	1,816,625	98	271,799	88,964	47,439
Import	40,075	65	89,985	23,596	254,443	26,015	33,520	453,816	240,077
Export	-196,468	-18,160	-230,227	-1,287	-61,416	-1,145	-148,572	-19,785	-44,955
International Marine Bunkers	-953	-	-523	-	-796	-6,911	-	-5,511	-9,132
International Aviation Bunkers	-3,053	-90	-544	-	-3,916	-3,758	-	-6,147	-3,806
Stock Change	-2,257	-91	5,757	-134	-52,947	-895	976	-3,161	41
Total	125,342	2,724	267,138	31,186	1,951,993	13,402	157,722	508,175	229,663
Coal & Coal Products									
Indigenous Production	217,400	-	34,373	263	1,471,741	-	134,652	627	1,276
Import	4	-	12,335	4,120	24,770	7,146	63	118,120	61,507
Export	-163,964	-	-19,333	-9	-32,491	-0	-94,080	-650	-
Stock Change	-2,562	-	429	-11	-32,239	-296	-	-1,103	-15
Total	50,878	-	27,803	4,363	1,431,782	6,850	40,635	116,994	62,767
Crude oil & Petroleum Products									
Indigenous Production	23,859	9,710	158,307	558	195,050	-	56,405	855	3,120
Import	35,725	65	58,385	18,721	225,056	15,852	33,457	254,389	145,197
Export	-16,509	-8,770	-121,050	-1,278	-24,473	-838	-20,619	-19,135	-44,955
International Marine Bunkers	-953	-	-523	-	-796	-6,911	-	-5,511	-9,132
International Aviation Bunkers	-3,053	-90	-544	-	-3,916	-3,758	-	-6,147	-3,806
Stock Change	305	-108	183	-	-20,708	-428	976	-2,048	1,780
Total	39,375	806	94,757	18,001	370,214	3,917	70,219	222,403	92,203
Natural Gas									
Indigenous Production	39,391	11,291	145,018	1,247	74,759	-	72,604	3,482	195
Import	4,346	-	12,831	655	4,286	2,041	-	81,307	33,347
Export	-15,995	-9,390	-84,712	-	-3,021	-	-33,873	-	-
Stock Change	-	16	5,145	-123	-	-171	-	-10	-1,723
Total	27,742	1,918	78,283	1,779	76,025	1,870	38,731	84,779	31,818
Nuclear Power									
Indigenous Production	-	-	24,484	-	17,823	-	-	65,605	39,340
Hydro Power									
Indigenous Production	1,037	-	32,199	2,081	50,326	-	991	7,017	478
Geothermal, Solar, etc									
Indigenous Production	437	-	322	3	-	-	7,146	3,215	106

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

Primary Energy Supply Table in 2009 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
84,469	214,691	16,593	2,749	12,439	23,271	1,181,588	121	13,801	47,134	1,694,897	51,477	6,388,199
24,095	38,714	7,399	1,443	6,803	17,965	24,072	136,636	111,855	62,352	720,587	15,667	2,348,150
-42,772	-78,481	-4,028	-1,943	-4,378	-1,802	-552,699	-73,595	-18,733	-12,622	-161,843	-29,454	-1,708,504
-	-775	-341	-	-	-198	-	-36,387	-1,648	-	-24,076	-	-89,993
-	-2,686	-737	-	-	-976	-5,858	-	-1,754	-3,366	-21,572	-	-59,375
205	420	-183	22	-1,155	269	-186	-	1,046	-1,007	-36,815	1,910	-85,770
65,996	171,885	18,704	2,270	13,708	38,530	646,917	26,775	104,568	92,492	2,171,177	39,600	6,792,708
1,171	5,063	2,661	-	225	2,474	153,640	-	-	5,021	530,133	24,480	2,688,844
7,797	2,967	361	-	553	3,888	14,530	-	36,090	10,269	12,757	508	343,093
-102	-3	-1,481	-	-	-1,052	-68,671	-	-25	-17	-34,866	-13,995	-435,101
164	-280	-73	-	51	-	-4,228	-	850	-829	-23,047	1,652	-77,577
9,030	7,748	1,468	-	829	5,310	95,271	-	36,916	14,444	484,978	12,645	2,519,259
34,771	151,795	2,702	2,018	6,733	962	493,645	-	14	16,188	337,238	17,317	1,503,884
11,967	24,941	7,038	1,443	6,201	14,033	2,601	130,402	64,702	43,580	615,764	14,806	1,722,379
-20,202	-77,783	-2,547	-1,943	-4,373	-749	-351,239	-73,595	-18,708	-12,471	-100,216	-15,427	-943,216
-	-775	-341	-	-	-198	-	-36,387	-1,648	-	-24,076	-	-89,993
-	-2,686	-737	-	-	-976	-5,858	-	-1,754	-3,366	-21,572	-	-59,375
41	766	-22	22	-1,206	269	-1,185	-	258	-178	-6,767	258	-12,511
26,577	96,258	6,093	1,540	7,355	13,342	137,965	20,421	42,865	43,754	800,370	16,954	2,121,169
47,588	38,407	3,548	338	3,510	3,214	469,695	-	281	23,337	478,708	7,101	1,423,976
4,329	10,777	-	-	-	-	6,677	6,233	11,062	8,294	87,033	-	273,212
-22,314	-588	-	-	-	-	-131,248	-	-	-	-24,634	-	-319,384
-	-65	-88	-	-	-	5,270	-	-63	-	-6,748	-	4,615
29,603	48,530	3,460	338	3,510	3,214	350,395	6,233	11,280	31,631	534,359	7,101	1,382,420
-	2,737	-	-	-	-	42,652	-	10,833	-	216,353	-	424,498
574	2,297	2,083	73	1,708	842	15,146	-	693	615	25,663	2,578	148,269
1	6,010	4,505	320	7	8,884	399	-	145	2	23,034	-	54,929

Primary Energy Supply Table in 2008 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
96,208	227,542	16,181	2,833	10,876	22,805	1,253,940	136	13,727	39,524	1,710,037	46,997	6,390,431
28,701	41,565	7,575	1,513	7,510	20,180	28,948	129,198	115,530	59,879	800,736	15,485	2,414,411
-46,337	-85,670	-4,623	-2,044	-4,080	-3,494	-565,522	-69,610	-17,452	-11,646	-165,633	-26,108	-1,724,232
-66	-1,032	-349	-	-	-227	-	-34,936	-1,798	-	-22,597	-	-84,833
-	-3,179	-774	-	-	-953	-5,851	-	-1,856	-3,574	-23,816	-	-61,317
-666	-440	487	-111	-1,046	239	-24,753	-	-932	711	-10,753	-1,044	-91,020
77,839	178,785	18,498	2,191	13,260	38,549	686,764	24,788	107,218	84,895	2,287,974	35,331	6,843,440
676	5,477	2,837	-	99	1,905	167,181	-	-	4,787	579,299	22,275	2,644,867
8,310	2,511	319	-	648	4,791	18,839	-	39,513	10,119	21,096	452	334,662
-176	-6	-1,781	-	-	-472	-64,341	-	-59	47	-48,222	-10,839	-436,374
-695	-272	427	-	176	-	-4,609	-	-725	-	-6,409	129	-47,778
8,114	7,710	1,801	-	923	6,225	117,069	-	38,729	14,953	545,764	12,017	2,495,377
37,870	163,112	2,915	2,102	5,611	715	488,534	-	14	15,182	312,865	15,863	1,492,647
15,935	27,464	7,255	1,513	6,861	15,379	3,448	123,031	63,544	41,260	680,719	14,757	1,788,012
-24,511	-84,646	-2,841	-2,044	-4,080	-3,023	-341,566	-69,610	-17,393	-11,592	-91,792	-15,053	-925,777
-66	-1,032	-349	-	-	-227	-	-34,936	-1,798	-	-22,597	-	-84,833
-	-3,179	-774	-	-	-953	-5,851	-	-1,856	-3,574	-23,816	-	-61,317
29	-357	60	-111	-1,222	239	-3,123	-	-116	711	-4,953	-1,173	-30,063
29,256	101,361	6,266	1,460	7,171	12,131	141,442	18,485	42,395	41,987	850,425	14,394	2,178,669
57,022	38,150	3,439	338	3,321	3,192	534,798	-	318	17,236	469,800	6,624	1,482,224
4,447	11,559	-	-	-	-	6,394	6,167	12,473	8,261	92,333	-	280,448
-21,600	-893	-	-	-	-	-157,831	-	-	-	-22,096	-216	-349,628
-	189	-	-	-	-	-17,084	-	-90	-	906	-	-12,946
39,869	49,005	3,439	338	3,321	3,192	366,277	6,167	12,700	25,497	540,942	6,408	1,400,099
-	2,555	-	-	-	-	42,522	-	10,639	-	218,332	-	421,300
642	3,369	1,922	74	1,637	846	14,337	-	688	612	24,252	2,235	144,743
-	6,226	3,899	320	7	9,227	400	-	133	1	21,289	-	52,731

3.22.2 Final Energy Consumption Table

Final Energy Consumption Table in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	77,082	955	194,334	21,935	1,279,634	6,887	92,182	309,778	147,438
Coal & Coal Products	3,277	-	2,292	230	476,501	0	11,294	31,063	7,772
Crude oil & Petroleum Products	38,034	646	86,630	12,080	350,417	2,623	50,616	165,711	79,941
Natural Gas	13,215	30	54,711	679	136,593	651	18,688	27,389	18,122
Electricity	18,384	279	41,056	4,633	261,801	3,572	11,584	82,297	34,890
Others	4,172	-	9,644	4,312	54,322	41	-	3,318	6,712
Industry	25,864	209	51,922	8,356	794,561	636	37,124	132,590	39,930
Coal & Coal Products	3,164	-	2,263	220	384,394	0	11,294	30,518	6,879
Crude oil & Petroleum Products	3,866	161	4,362	3,376	94,158	308	6,347	54,338	5,831
Natural Gas	8,151	-	23,991	132	102,837	22	15,509	13,018	5,632
Electricity	8,076	48	13,715	3,133	177,389	270	3,974	32,607	17,142
Others	2,607	-	7,591	1,496	35,783	37	-	2,109	4,446
Transport	28,714	352	55,749	6,834	149,602	2,155	30,729	78,464	29,302
Coal & Coal Products	79	-	-	-	4,208	-	-	-	-
Crude oil & Petroleum Products	27,972	352	52,713	6,777	132,489	2,095	30,711	76,662	28,220
Natural Gas	417	-	2,722	20	7,598	-	8	-	895
Electricity	246	-	314	36	5,306	60	10	1,802	187
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,165	0	3,372	-	29,799	-	-	4,036	1,774
Coal & Coal Products	-	-	-	-	8,329	-	-	-	-
Crude oil & Petroleum Products	2,014	0	2,023	-	13,367	-	-	3,668	1,145
Natural Gas	3	-	514	-	-	-	-	-	4
Electricity	148	-	833	-	8,083	-	-	294	626
Others	-	-	2	-	20	-	-	74	-
Residential & Commercial	16,491	212	63,306	6,072	201,405	4,096	15,369	88,842	37,853
Coal & Coal Products	34	-	29	3	69,338	-	-	545	893
Crude oil & Petroleum Products	951	18	9,901	1,280	39,608	220	7,648	25,197	6,328
Natural Gas	4,027	26	25,132	522	23,956	630	121	14,371	11,591
Electricity	9,914	168	26,194	1,450	51,677	3,242	7,600	47,595	16,775
Others	1,565	-	2,052	2,816	16,826	4	-	1,135	2,267

Final Energy Consumption Table in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	77,862	940	200,515	23,981	1,218,756	6,879	100,345	334,870	146,359
Coal & Coal Products	3,730	-	2,792	477	461,573	-	22,378	36,806	9,431
Crude oil & Petroleum Products	38,289	642	91,138	13,141	334,189	2,764	54,276	175,801	77,935
Natural Gas	13,326	28	53,233	1,416	123,698	593	12,589	29,384	17,582
Electricity	18,244	270	42,984	4,602	243,839	3,520	11,103	89,006	34,365
Others	4,273	-	10,368	4,345	55,457	3	-	3,874	7,046
Industry	26,747	188	53,026	8,445	754,164	764	42,244	151,507	42,423
Coal & Coal Products	3,617	-	2,759	463	371,056	-	22,378	36,118	8,378
Crude oil & Petroleum Products	3,936	141	5,831	3,240	88,530	453	6,288	59,713	6,463
Natural Gas	8,354	-	21,015	58	88,727	19	9,452	14,644	5,472
Electricity	8,159	47	15,155	3,140	167,819	291	4,125	38,428	17,225
Others	2,680	-	8,265	1,545	38,033	-	-	2,604	4,885
Transport	28,854	362	57,225	8,450	145,300	2,144	26,025	80,535	28,853
Coal & Coal Products	71	-	-	-	4,370	-	-	-	-
Crude oil & Petroleum Products	28,138	362	53,690	8,400	130,122	2,084	26,001	78,689	27,946
Natural Gas	403	-	3,199	13	5,891	-	17	-	715
Electricity	242	-	335	37	4,918	60	7	1,846	191
Others	-	-	-	-	-	-0	-	-	-
Agriculture	2,109	0	3,830	-	28,667	-	-	4,404	1,704
Coal & Coal Products	-	-	-	-	8,085	-	-	-	-
Crude oil & Petroleum Products	1,945	0	2,524	-	12,934	-	-	4,000	1,135
Natural Gas	3	-	487	-	-	-	-	-	5
Electricity	161	-	818	-	7,629	-	-	329	564
Others	-	-	2	-	20	-	-	74	-
Residential & Commercial	16,129	271	64,575	5,944	190,573	3,971	15,594	92,038	37,292
Coal & Coal Products	41	-	33	3	68,827	-	-	688	1,053
Crude oil & Petroleum Products	937	19	10,349	1,238	36,306	227	8,555	27,012	6,460
Natural Gas	3,875	28	25,416	493	23,069	573	68	14,739	11,389
Electricity	9,683	224	26,676	1,409	46,556	3,169	6,970	48,403	16,228
Others	1,593	-	2,101	2,801	15,815	3	-	1,195	2,161

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

Final Energy Consumption Table in 2009 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
38,244	110,102	12,504	1,162	12,067	22,926	422,883	16,114	63,990	59,503	1,472,251	32,071	4,394,041
1,378	1,087	539	-	580	1,624	18,268	-	5,926	7,187	21,217	8,966	599,201
22,757	72,502	5,818	889	8,157	11,373	106,240	12,771	38,789	35,866	774,768	15,851	1,892,478
5,826	11,805	1,704	-	769	70	128,542	113	1,833	4,822	312,081	639	738,281
8,283	17,294	3,256	273	2,561	4,377	59,016	3,230	17,341	11,628	313,229	6,616	905,601
-	7,414	1,187	-	-	5,481	110,817	-	102	-	50,956	-	258,479
13,419	25,840	3,798	629	3,941	5,826	124,544	8,163	19,978	17,873	256,626	13,724	1,585,554
1,378	1,087	453	-	580	1,624	13,711	-	5,926	7,187	19,629	7,506	497,813
4,433	6,183	392	430	1,470	1,340	15,525	6,943	3,798	3,467	27,411	2,146	246,285
3,891	8,247	860	-	489	70	29,407	48	820	2,346	105,719	639	321,829
3,717	9,288	1,146	199	1,401	1,469	26,782	1,172	9,434	4,874	68,720	3,434	387,990
-	1,035	946	-	-	1,322	39,119	-	-	-	35,146	-	131,637
16,066	50,474	4,575	404	5,464	7,962	89,617	5,578	11,480	20,932	589,731	10,274	1,194,460
-	-	0	-	-	-	-	-	-	-	-	-	4,288
15,853	50,365	4,565	404	5,245	7,952	55,017	5,578	11,385	19,647	574,475	10,274	1,118,753
202	13	1	-	220	0	27,617	-	-	1,280	14,585	-	55,577
11	96	9	-	-	10	6,984	-	95	5	671	-	15,842
-	-	-	-	-	-	-	-	-	-	-	-	-
210	3,597	523	-	30	129	8,343	4	147	3,504	14,306	599	72,536
-	-	17	-	-	-	93	-	-	-	-	-	21
189	2,797	305	-	30	22	3,050	-	4	3,476	13,964	518	46,571
-	-	39	-	-	-	884	-	-	-	-	-	1,443
21	800	144	-	-	107	1,299	4	143	27	-	60	12,590
-	-	17	-	-	-	3,017	-	-	-	341	-	3,472
4,966	21,250	2,626	-	2,104	8,700	147,445	2,118	11,034	9,620	468,693	6,060	1,118,261
-	-	68	-	-	-	4,461	-	-	-	1,588	1,439	78,398
408	7,903	160	-	909	1,764	6,082	-	2,329	2,957	37,872	1,499	153,035
23	896	277	-	36	-	44,334	65	1,013	0	182,796	-	309,815
4,534	6,073	1,897	-	1,160	2,777	23,929	2,053	7,590	6,662	230,967	3,122	455,378
-	6,379	224	-	-	4,159	68,640	-	102	-	15,469	-	121,636

Final Energy Consumption Table in 2008 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
44,354	114,937	12,553	1,144	11,002	22,425	435,563	16,129	64,332	55,180	1,551,813	28,479	4,468,421
1,464	1,264	614	-	579	1,798	16,634	-	6,240	7,459	26,859	8,289	608,386
24,433	76,019	6,084	872	7,123	10,733	106,632	12,787	37,889	32,909	814,169	13,806	1,931,629
10,474	12,507	1,301	-	737	70	133,977	113	2,036	3,204	328,828	540	745,635
7,983	17,395	3,290	272	2,563	4,232	62,390	3,230	18,069	11,608	327,903	5,844	912,713
-0	7,752	1,264	-	-	5,592	115,932	-	99	-	54,054	-	270,058
18,667	27,877	3,828	628	4,162	6,158	125,388	8,423	21,209	19,499	292,479	12,441	1,620,266
1,464	1,264	462	-	579	1,798	10,380	-	6,240	7,459	25,126	6,849	506,390
5,262	6,934	475	429	1,591	1,539	13,057	7,043	4,030	4,602	34,394	2,025	255,979
8,257	8,637	671	-	594	70	30,136	48	871	2,540	116,612	540	316,719
3,685	9,675	1,198	199	1,397	1,465	30,967	1,332	10,068	4,898	78,681	3,026	400,980
-0	1,367	1,021	-	-	1,287	40,847	0	-0	-	37,666	-	140,198
16,378	51,823	4,667	398	4,382	7,447	97,243	5,494	11,521	18,958	613,942	8,666	1,218,668
-	-	1	-	-	-	-	-	-	-	-	-	4,443
16,175	51,714	4,657	398	4,252	7,437	54,679	5,494	11,427	18,289	597,582	8,622	1,136,156
189	14	1	-	130	0	35,418	-	-	664	15,698	-	62,352
15	96	9	-	-	10	7,146	-	95	5	662	44	15,716
0	-	-	-	-	-	-	-	-	-	-	-	0
286	3,432	587	-	69	135	9,790	4	144	3,457	15,529	587	74,735
-	-	40	-	-	-	85	-	-	-	-	22	8,232
267	2,735	350	-	29	38	4,478	-	4	3,433	15,172	508	49,549
-	-	35	-	-	-	837	-	-	-	-	-	1,366
19	697	145	-	41	97	1,335	4	141	24	-	57	12,061
-0	-	17	-	-	-	3,056	-	-	-	357	-	3,526
6,200	21,425	2,604	-	1,836	8,366	154,580	1,959	11,287	9,357	475,656	5,588	1,125,242
-	-	111	-	-	-	6,166	-	-	-	1,733	1,417	80,071
1,900	8,218	178	-	725	1,413	9,681	-	2,341	2,739	37,708	1,453	157,459
36	950	211	-	5	-	43,831	64	1,165	-	186,611	-	312,525
4,264	5,871	1,880	-	1,105	2,647	22,918	1,894	7,683	6,617	233,573	2,717	450,487
-	6,386	225	-	-	4,306	71,985	-	99	-	16,031	-	124,700

3.22.3 Demand and Supply Table

Demand & Supply Table of Coal in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	217,400	-	34,373	263	1,471,741	-	134,652	627	1,276
Import	-	-	11,809	4,120	24,770	7,146	63	117,014	61,017
Export	-163,964	-	-19,287	-	-24,125	-0	-94,080	-	-
Stock Change	-2,107	-	156	-29	-24,768	-296	-	-1,103	-15
Primary Energy Supply	51,329	-	27,050	4,353	1,447,619	6,850	40,635	116,538	62,277
Main Activity Producer	-44,440	-	-23,541	-3,303	-673,245	-6,850	-18,252	-50,018	-38,504
Autoproducers	-	-	-5	-4	-65,860	-	-	-9,298	-1,676
Coal Transformation	-3,738	-	-2,880	-461	-240,278	-	-25	-39,589	-17,142
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-7,087	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,753	-	1,687	377	400,480	-	22,357	15,779	5,021

Demand & Supply Table of Crude Oil in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	23,859	9,692	158,307	558	195,050	-	55,318	855	536
Import	21,339	17	42,564	10,881	178,885	-	12,839	210,089	118,857
Export	-14,992	-8,770	-99,188	-	-4,238	-	-20,619	-	-243
Stock Change	179	-111	354	-	-14,712	-	976	-1,863	901
Primary Energy Supply	30,384	827	102,037	11,439	354,986	-	48,514	209,081	120,052
Main Activity Producer	-	-	-	-	-	-	-	-9,439	-
Autoproducers	-	-	-	-	-98	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-32,759	-804	-95,824	-11,154	-340,953	-	-47,601	-204,303	-128,789
Gas processing	-	-	-	-	-	-	-	-	-
Other Transformation	150	-	697	-	-	-	-	5,194	164
Final Energy Consumption	39	-	-	-	4,948	-	-	-	-

Demand & Supply Table of Natural Gas in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	39,391	11,291	145,018	1,247	74,759	-	72,604	3,482	195
Import	4,346	-	12,831	655	4,286	2,041	-	81,307	33,347
Export	-15,995	-9,390	-84,712	-	-3,021	-	-33,873	-	-
Stock Change	-	16	5,145	-123	-	-171	-	-10	-1,723
Primary Energy Supply	27,742	1,918	78,283	1,779	76,025	1,870	38,731	84,779	31,818
Main Activity Producer	-5,131	-1,013	-7,782	-423	-331	-1,500	-5,961	-51,332	-13,839
Autoproducers	-2,678	-953	-1,598	-50	-14,412	-	-	-3,386	-450
Coal Transformation	-82	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-270	522	-1,711	10	76,117	223	-6,727	1,062	201
Other Transformation	-	-	-574	-	-	-	-	-	-
Final Energy Consumption	13,326	28	53,233	1,416	123,698	593	12,589	29,384	17,582

Demand & Supply Table of Coal in 2008 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
676	5,477	2,837	-	99	1,905	167,181	-	-	4,787	579,299	22,275	2,644,867	
8,310	2,290	319	-	475	4,791	18,725	-	39,246	4,781	18,844	385	324,105	
-176	-4	-1,781	-	-	-472	-62,243	-	-	-	-46,998	-10,839	-423,968	
-695	-997	427	-	176	-	-4,568	-	-745	-	-6,315	129	-40,752	
8,114	6,766	1,801	-	749	6,225	119,095	-	38,501	9,568	544,830	11,951	2,504,252	
-6,894	-5,023	-978	-	-251	-4,558	-61,197	-	-22,871	-6,924	-492,094	-3,348	-1,462,293	
-	-	-7	-	-	-	-18,247	-	-6,301	-598	-2,776	-380	-105,151	
-	-1,602	-368	-	-	-	-31,034	-	-3,944	-	-15,795	-	-356,856	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-1,884	-	-8,971	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,464	142	577	-	502	1,798	7,687	-	4,801	2,182	24,464	8,201	500,271	

Demand & Supply Table of Crude Oil in 2008 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
35,513	163,112	2,915	2,102	5,611	715	488,534	-	14	11,954	312,865	15,172	1,482,685	
8,565	471	4,970	870	4,979	9,283	2,468	50,271	47,865	40,893	588,267	-	1,354,374	
-14,994	-77,826	-2,631	-2,044	-925	-653	-244,313	-70	-	-2,520	-6,495	-14,000	-514,521	
144	-638	55	-85	-135	-347	-3,504	-	-639	-	-4,463	-1,173	-25,060	
29,229	85,119	5,310	844	9,531	8,997	243,184	50,201	47,241	50,327	890,175	-	2,297,478	
-	-	-	-	-	-	-	-	-	-	-	-	-9,439	
-	-	-	-	-	-	-732	-	-	-	-	-	-830	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-26,740	-78,010	-5,309	-799	-8,871	-8,718	-247,250	-50,201	-47,351	-49,565	-858,195	-	-2,243,196	
-	-	-	-	-275	-	-	-	-	-	-	-	-275	
-	-	3	-	-	-	-	-	-	-	18,249	-	24,457	
-	-	-	4	-	-	56	-	-	3,125	-	-	8,172	

Demand & Supply Table of Natural Gas in 2008 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
57,022	38,150	3,439	338	3,321	3,192	534,798	-	318	17,236	469,800	6,624	1,482,224	
4,447	11,559	-	-	-	-	6,394	6,167	12,473	8,261	92,333	-	280,448	
-21,600	-893	-	-	-	-	-157,831	-	-	-	-22,096	-216	-349,628	
-	189	-	-	-	-	-17,084	-	-90	-	906	-	-12,946	
39,869	49,005	3,439	338	3,321	3,192	366,277	6,167	12,700	25,497	540,942	6,408	1,400,099	
-13,300	-20,648	-1,684	-	-1,969	-2,854	-135,794	-6,167	-9,294	-19,966	-155,341	-5,454	-459,782	
-1,004	-2,934	-125	-118	-72	-	-76,356	-	-140	-2,327	-12,951	-239	-119,794	
-	-	-	-	-	-	-	-	-	-	-	-	-82	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-13,679	644	-	-	-	-	-	113	-767	-	1,177	-	56,916	
-	-	-	-	-	-	-1,552	-	-	-	-	-	-2,126	
10,474	12,507	1,301	-	737	70	133,977	113	2,036	3,204	328,828	540	745,635	

Demand & Supply Table of Coal in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	222,226	-	31,460	352	1,557,291	-	150,835	654	1,159
Import	-	-	7,725	3,335	72,637	7,767	40	98,216	62,744
Export	-169,045	-	-16,925	-	-11,866	-0	-116,424	-	-
Stock Change	-2,453	-	821	-49	-34,029	-613	-1,647	150	762
Primary Energy Supply	50,728	-	23,081	3,639	1,584,033	7,154	32,805	99,019	64,665
Main Activity Producer	-44,958	-	-19,179	-2,604	-713,784	-7,154	-21,503	-43,966	-43,601
Autoproducers	-	-	-3	-	-68,894	-	-	-8,939	-2,027
Coal Transformation	-2,833	-	-2,060	-404	-253,244	-	-36	-33,717	-15,545
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-6,645	-	-	-	-
Other Transformation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,495	-	1,320	134	412,577	0	11,265	12,546	4,010

Demand & Supply Table of Crude Oil in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	25,503	9,284	156,886	672	189,490	-	53,314	798	692
Import	19,876	17	40,797	10,696	203,653	-	18,284	182,823	117,637
Export	-15,421	-8,369	-100,103	-	-5,073	-	-20,376	-	-325
Stock Change	41	-143	193	68	-6,765	-	976	2,189	-2,998
Primary Energy Supply	29,999	788	97,772	11,437	381,305	-	52,198	185,809	115,006
Main Activity Producer	-	-	-	-	-	-	-	-3,352	-
Autoproducers	-	-	-	-	-64	-	-	-	-
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-33,463	-769	-93,168	-14,108	-371,094	-	-50,975	-187,486	-125,448
Gas processing	-	-	-	-	-	-	-	-	-
Other Transformation	219	-	785	-	-	-	-	5,129	234
Final Energy Consumption	38	-	-	-	3,385	-	-	-	-

Demand & Supply Table of Natural Gas in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	41,184	10,604	135,288	993	79,385	-	77,022	3,326	449
Import	5,122	-	17,066	1,228	7,107	2,293	-	75,778	30,212
Export	-18,020	-8,735	-78,677	-	-2,988	-	-32,180	-	-
Stock Change	-	-	5,006	15	-	219	-	15	1,053
Primary Energy Supply	28,286	1,868	78,683	2,236	83,505	2,512	44,842	79,120	31,713
Main Activity Producer	-5,193	-1,099	-6,936	-726	-368	-1,861	-8,674	-49,089	-11,987
Autoproducers	-2,712	-886	-1,337	-15	-20,253	-	-	-3,119	-407
Coal Transformation	-67	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-265	521	-1,962	-695	88,590	-	-6,406	971	224
Other Transformation	-	-	-589	-	-	-	-	-	-
Final Energy Consumption	13,215	30	54,711	679	136,593	651	18,688	27,389	18,122

Demand & Supply Table of Coal in 2009 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
1,171	5,063	2,661	-	225	2,474	153,640	-	-	5,021	530,133	24,480	2,688,844	
7,797	2,835	361	-	531	3,888	14,379	-	36,018	4,915	12,540	448	336,177	
-102	-3	-1,481	-	-	-1,052	-67,384	-	-	-1	-34,049	-13,995	-432,327	
164	-73	-73	-	42	-	-4,309	-	850	-2	-23,134	1,652	-61,940	
9,030	7,823	1,468	-	799	5,310	96,326	-	36,868	9,933	485,490	12,585	2,530,754	
-7,698	-6,341	-627	-	-258	-4,442	-51,348	-	-22,158	-6,687	-436,870	-3,560	-1,436,740	
-	-	-7	-	-	-	-15,582	-	-6,278	-562	-2,503	-119	-104,916	
-	-1,370	-373	-	-	-	-33,788	-	-3,984	-	-10,843	-	-358,198	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-1,944	-	-8,589	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,378	112	504	-	550	1,624	5,702	-	4,667	2,676	19,847	8,906	490,312	

Demand & Supply Table of Crude Oil in 2009 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
32,869	151,795	2,702	2,018	6,733	962	493,645	-	14	12,907	337,238	16,593	1,494,115	
5,787	502	4,814	753	5,024	6,772	1,793	44,136	49,643	43,148	535,097	-	1,291,253	
-12,378	-67,633	-2,338	-1,943	-1,011	-257	-250,143	-45	-	-2,261	-8,594	-13,614	-509,883	
41	436	-54	69	45	428	-1,635	-	351	935	-2,725	-1,008	-9,557	
26,319	85,100	5,124	897	10,792	7,905	243,659	44,091	50,008	54,729	861,016	1,972	2,265,929	
-	-	-	-	-	-	-	-	-	-	-	-	-3,352	
-	-	-	-	-	-	-752	-	-	-	-	-	-816	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-26,505	-74,512	-5,169	-825	-9,571	-6,940	-247,177	-44,091	-50,159	-49,252	-836,842	-1,972	-2,229,528	
-	-	-	-	-	-	-	-	-	-	-	-	-	
142	-	2	-	-	114	-	-	-	-	19,979	-	26,604	
-	-	-	4	-	-	41	-	-	5,119	-	-	8,588	

Demand & Supply Table of Natural Gas in 2009 (Continued)

													ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
47,588	38,407	3,548	338	3,510	3,214	469,695	-	281	23,337	478,708	7,101	1,423,976	
4,329	10,777	-	-	-	-	6,677	6,233	11,062	8,294	87,033	-	273,212	
-22,314	-588	-	-	-	-	-131,248	-	-	-	-24,634	-	-319,384	
-	-65	-88	-	-	-	5,270	-	-63	-	-6,748	-	4,615	
29,603	48,530	3,460	338	3,510	3,214	350,395	6,233	11,280	31,631	534,359	7,101	1,382,420	
-11,467	-20,891	-1,419	-	-2,014	-2,966	-128,839	-6,233	-7,985	-20,307	-159,754	-6,243	-454,052	
-1,186	-2,842	-123	-118	-85	-	-75,391	-	-115	-2,444	-12,931	-219	-124,181	
-	-	-	-	-	-	-	-	-	-	-	-	-67	
-6,522	613	-	-	-	-	-	113	-1,423	-	1,244	-	75,003	
-	-	-	-	-	-	-1,390	-	-	-	-	-	-1,979	
5,826	11,805	1,704	-	769	70	128,542	113	1,833	4,822	312,081	639	738,281	

3.22.4 Power Generation Table

Power Generation Table in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	260,965	3,611	603,234	61,328	3,714,650	38,872	152,018	1,093,787	454,504
Thermal	241,827	3,611	137,436	31,704	2,982,780	38,728	132,453	702,787	298,953
Coal	203,334	-	91,642	14,897	2,871,333	38,728	63,218	315,673	208,864
Oil	2,639	-	8,299	12,936	71,480	-	31,900	115,310	19,811
Gas	35,854	3,611	37,495	3,871	39,967	-	37,334	271,804	70,278
Hydro	12,295	-	363,960	25,174	615,640	-	11,095	82,432	5,641
Nuclear	-	-	90,419	-	70,134	-	-	274,651	147,771
Geothermal	-	-	-	-	-	-	8,423	2,901	-
Others	6,843	-	11,419	4,450	46,096	144	47	31,016	2,139
Main Activity Producer	248,162	3,269	556,136	55,973	3,472,747	38,729	152,018	910,021	430,618
Thermal	230,282	3,269	128,396	30,856	2,740,877	38,728	132,453	556,500	275,514
Coal	203,259	-	91,575	14,897	2,689,896	38,728	63,218	244,048	193,196
Oil	1,858	-	6,221	12,133	50,980	-	31,900	61,050	14,214
Gas	25,165	3,269	30,600	3,826	-	-	37,334	251,402	68,104
Hydro	12,295	-	332,569	24,799	615,640	-	11,095	73,590	5,641
Nuclear	-	-	90,419	-	70,134	-	-	274,651	147,771
Geothermal	-	-	-	-	-	-	8,423	2,704	-
Others	5,585	-	4,752	318	46,096	1	47	2,576	1,692
Autoproducers	12,803	343	47,098	5,355	241,903	143	-	183,765	23,886
Thermal	11,545	343	9,040	848	241,903	-	-	146,287	23,439
Coal	75	-	67	-	181,437	-	-	71,625	15,668
Oil	781	-	2,078	803	20,499	-	-	54,260	5,597
Gas	10,689	343	6,895	45	39,967	-	-	20,401	2,174
Hydro	-	-	31,391	375	-	-	-	8,843	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	196	-
Others	1,258	-	6,667	4,132	-	143	-	28,440	447

Power Generation Table in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	257,246	3,423	641,051	59,704	3,466,882	41,703	149,437	1,179,739	446,394
Thermal	239,138	3,423	161,779	32,390	2,790,078	40,501	129,552	810,150	288,444
Coal	200,835	-	112,020	14,112	2,684,666	31,957	61,392	348,400	191,761
Oil	2,781	-	8,847	16,090	79,895	176	40,449	181,114	15,351
Gas	35,522	3,423	40,912	2,188	25,517	8,369	27,711	280,636	81,332
Hydro	12,057	-	374,407	24,193	585,187	-	11,528	81,595	5,563
Nuclear	-	-	93,951	-	68,394	-	-	251,744	150,958
Geothermal	-	-	-	-	-	-	8,309	2,814	-
Others	6,051	-	10,914	3,121	23,223	1,201	47	33,436	1,429
Main Activity Producer	244,384	3,071	590,877	55,620	3,243,607	40,501	149,437	986,889	420,329
Thermal	227,459	3,071	152,275	31,584	2,566,803	40,501	129,552	655,789	262,759
Coal	200,758	-	111,942	14,090	2,519,116	31,957	61,392	273,813	173,404
Oil	1,909	-	6,552	15,468	47,687	176	40,449	122,887	10,123
Gas	24,792	3,071	33,781	2,026	-	8,369	27,711	259,090	79,232
Hydro	12,057	-	340,833	23,772	585,187	-	11,528	74,144	5,563
Nuclear	-	-	93,951	-	68,394	-	-	251,744	150,958
Geothermal	-	-	-	-	-	-	8,309	2,624	-
Others	4,868	-	3,818	264	23,223	-	47	2,588	1,049
Autoproducers	12,862	352	50,174	4,084	223,275	1,201	-	192,850	26,065
Thermal	11,679	352	9,504	806	223,275	-	-	154,361	25,685
Coal	77	-	78	22	165,550	-	-	74,587	18,357
Oil	872	-	2,295	622	32,209	-	-	58,227	5,228
Gas	10,730	352	7,131	162	25,517	-	-	21,547	2,100
Hydro	-	-	33,574	421	-	-	-	7,452	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	190	-
Others	1,183	-	7,096	2,857	-	1,201	-	30,848	380

Power Generation Table in 2009 (Continued)

													GW h
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
107,105	261,018	43,472	3,445	33,029	61,921	991,980	41,801	229,691	148,297	4,188,214	79,498	12,572,439	
98,987	213,738	12,276	2,219	12,475	41,744	649,167	41,155	174,558	126,298	2,892,882	49,480	8,885,257	
36,250	29,522	3,295	-	929	16,476	164,112	-	118,683	28,020	1,892,661	12,836	6,110,474	
2,813	45,745	9	1,676	2,350	5,381	16,021	7,979	8,698	683	50,445	2,378	406,551	
59,924	138,471	8,972	543	9,196	19,887	469,034	33,176	47,178	97,595	949,776	34,267	2,368,232	
6,671	26,713	24,220	854	19,864	9,788	176,118	-	7,054	7,148	298,410	29,981	1,723,058	
-	10,501	-	-	-	-	163,584	-	41,571	-	830,210	-	1,628,841	
-	6,740	4,863	372	-	10,324	464	-	-	1	17,046	-	51,134	
1,447	3,326	2,113	-	690	66	2,647	645	6,509	14,850	149,666	37	284,149	
99,371	235,106	41,823	770	30,652	61,921	939,616	41,801	192,442	133,449	4,039,013	76,995	11,760,631	
92,478	191,171	11,214	276	11,260	41,744	600,378	41,155	143,039	126,298	2,782,558	47,014	8,225,459	
36,250	29,059	2,705	-	929	16,476	153,526	-	90,691	28,020	1,873,706	12,420	5,782,600	
2,406	40,381	9	276	1,505	5,381	12,144	7,979	6,126	683	41,384	1,050	297,681	
53,822	121,731	8,500	-	8,826	19,887	434,708	33,176	46,221	97,595	867,468	33,544	2,145,177	
6,671	26,445	24,212	494	19,392	9,788	175,186	-	7,054	7,148	296,433	29,981	1,678,432	
-	10,501	-	-	-	-	163,584	-	41,571	-	830,210	-	1,628,841	
-	6,740	4,809	-	-	10,324	464	-	-	1	17,046	-	50,511	
222	249	1,588	-	-	66	4	645	778	2	112,766	-	177,388	
7,734	25,912	1,649	2,675	2,377	-	52,364	-	37,249	14,848	149,201	2,503	811,808	
6,509	22,567	1,062	1,943	1,215	-	48,789	-	31,519	-	110,324	2,466	659,799	
-	463	590	-	-	-	10,586	-	27,991	-	18,955	416	327,874	
407	5,364	-	1,400	844	-	3,877	-	2,571	-	9,061	1,327	108,870	
6,102	16,740	472	543	371	-	34,326	-	956	-	82,308	723	223,055	
-	268	8	360	472	-	932	-	-	-	1,977	-	44,626	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	54	372	-	-	-	-	-	-	-	-	622	
1,225	3,077	525	-	690	-	2,643	-	5,730	14,848	36,900	37	106,762	

Power Generation Table in 2008 (Continued)

													GW h
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
111,200	261,863	43,850	3,132	32,987	60,821	1,040,379	41,717	238,845	147,427	4,368,260	73,049	12,669,108	
103,130	203,077	15,616	2,276	13,659	40,193	707,569	40,991	183,720	125,663	3,100,548	47,031	9,078,930	
30,235	21,398	4,832	-	1,005	15,749	196,749	-	120,907	29,480	2,132,596	14,738	6,212,831	
2,090	49,458	132	1,730	3,028	4,868	16,104	8,114	14,421	1,634	57,776	2,058	506,119	
70,805	132,221	10,652	546	9,626	19,576	494,716	32,877	48,392	94,549	910,176	30,234	2,359,980	
7,460	39,178	22,346	855	19,040	9,843	166,711	-	7,994	7,113	281,995	25,986	1,683,051	
-	9,804	-	-	-	-	163,085	-	40,827	-	837,804	-	1,616,567	
-	7,056	4,204	-	-	10,723	465	-	-	2	16,873	-	50,446	
610	2,748	1,684	-	287	63	2,549	726	6,304	14,649	131,040	32	240,114	
105,852	235,872	42,182	726	30,622	60,821	984,142	41,717	201,445	132,781	4,215,215	69,026	11,855,116	
98,326	179,865	14,514	230	12,014	40,193	655,313	40,991	152,261	125,663	2,986,489	43,040	8,418,693	
30,235	20,908	4,219	-	1,005	15,749	185,429	-	93,452	29,480	2,110,435	13,237	5,890,621	
1,826	43,903	132	230	1,776	4,868	11,709	8,114	11,446	1,634	48,553	792	380,235	
66,265	115,054	10,163	-	9,233	19,576	458,175	32,877	47,362	94,549	827,501	29,011	2,147,837	
7,460	38,892	22,339	495	18,608	9,843	165,274	-	7,994	7,113	280,230	25,986	1,637,317	
-	9,804	-	-	-	-	163,085	-	40,827	-	837,804	-	1,616,567	
-	7,056	4,152	-	-	10,723	465	-	-	2	16,873	-	50,204	
66	255	1,177	-	-	63	5	726	364	3	93,819	-	132,334	
5,348	25,991	1,668	2,406	2,365	-	56,237	-	37,400	14,646	153,045	4,023	813,993	
4,804	23,212	1,102	2,046	1,646	-	52,256	-	31,460	-	114,059	3,991	660,237	
-	490	613	-	-	-	11,320	-	27,454	-	22,161	1,501	322,210	
264	5,555	-	1,500	1,253	-	4,395	-	2,975	-	9,223	1,267	125,884	
4,540	17,167	489	546	393	-	36,541	-	1,030	-	82,675	1,223	212,143	
-	286	7	360	432	-	1,437	-	-	-	1,765	-	45,734	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	52	-	-	-	-	-	-	-	-	-	242	
544	2,493	507	-	287	-	2,544	-	5,940	14,646	37,221	32	107,780	

3.22.5 Fuel Consumption Table for Power Generation

Fuel Consumption Table for Power Generation in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Main Activity Producer	51,896	1,108	28,627	5,731	714,699	9,060	38,382	109,570	59,277
Coal	44,958	-	19,179	2,604	713,784	7,154	21,503	43,966	43,601
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	547	-	-	977	-
Blast Furnace Gas	301	-	-	-	-	-	-	2,391	-
Crude Oil & NGL	-	-	-	-	-	-	-	3,322	-
LPG	-	-	-	12	-	-	-	518	-
Refinery Gas	-	-	316	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	288
Diesel Oil	491	9	84	1,876	-	17	5,137	165	20
Fuel Oil	132	-	1,224	205	-	28	3,051	7,788	3,176
Natural Gas	5,193	1,099	6,936	726	368	1,861	8,674	49,089	11,987
Others	820	-	888	308	-	-	17	1,354	205
Autoproducers	3,499	886	2,951	758	101,833	12	-	29,663	5,604
Coal	-	-	3	-	68,894	-	-	8,939	2,027
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	8	-	3,719	-	-	531	237
Blast Furnace Gas	16	-	8	-	-	-	-	1,982	1,865
Crude Oil & NGL	-	-	-	-	64	-	-	-	-
LPG	-	-	-	-	13	-	-	96	-
Refinery Gas	-	-	-	-	2,669	-	-	1,188	-
Naphtha	-	-	-	-	-	-	-	1,389	-
Diesel Oil	-	-	-	31	1,548	-	-	-	-
Fuel Oil	-	-	-	18	2,937	-	-	5,699	367
Natural Gas	2,712	886	1,337	15	20,253	-	-	3,119	407
Others	772	-	1,595	694	1,735	12	-	6,719	701

Fuel Consumption Table for Power Generation in 2008

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Main Activity Producer	51,393	1,021	33,924	6,829	677,720	8,386	33,919	130,686	55,193
Coal	44,440	-	23,541	3,303	673,245	6,850	18,252	50,018	38,504
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	549	-	-	1,022	-
Blast Furnace Gas	312	-	-	-	-	-	-	2,911	-
Crude Oil & NGL	-	-	-	-	-	-	-	9,438	-
LPG	-	-	-	-	-	-	-	640	-
Refinery Gas	-	-	342	39	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	345
Gas/Diesel Oil	508	8	109	2,446	-	6	6,508	127	27
Fuel Oil	161	-	1,269	283	-	30	3,183	13,835	2,279
Natural Gas	5,131	1,013	7,782	423	331	1,500	5,961	51,332	13,839
Others	841	-	880	334	3,595	-	14	1,363	198
Autoproducers	3,485	953	3,304	546	95,930	98	-	32,294	5,725
Coal	-	-	5	4	65,860	-	-	9,298	1,676
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	9	-	3,597	-	-	539	272
Blast Furnace Gas	16	-	9	-	-	-	-	2,448	2,193
Crude Oil & NGL	-	-	-	-	98	-	-	-	-
LPG	-	-	-	-	74	-	-	81	-
Refinery Gas	-	-	-	-	2,314	-	-	1,094	-
Naphtha	-	-	-	-	-	-	-	1,246	-
Gas/Diesel Oil	-	-	-	-	1,888	-	-	-	-
Fuel Oil	-	-	-	-	6,373	-	-	6,803	361
Natural Gas	2,678	953	1,598	50	14,412	-	-	3,386	450
Others	790	-	1,683	491	1,313	98	-	7,399	773

Fuel Consumption Table for Power Generation in 2009 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
19,780	37,841	2,078	94	2,616	8,593	184,387	7,854	31,611	27,156	619,748	10,071	1,970,177
7,698	6,341	627	-	258	4,442	51,348	-	22,158	6,687	436,870	3,560	1,436,740
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	1,523
-	-	-	-	-	-	-	-	-	-	304	-	2,996
-	-	-	-	-	-	-	-	-	-	-	-	3,322
-	-	-	-	-	-	-	-	-	-	-	-	530
-	-	-	-	-	-	-	-	-	-	-	-	316
-	-	-	-	-	-	-	-	-	-	-	-	288
384	571	2	46	76	261	651	53	57	21	1,653	22	11,597
205	9,291	-	47	268	917	3,549	1,446	1,411	142	4,150	243	37,273
11,467	20,891	1,419	-	2,014	2,966	128,839	6,233	7,985	20,307	159,754	6,243	454,052
26	747	30	-	-	6	-	121	-	-	17,016	2	21,540
1,475	4,076	405	597	411	-	107,368	-	9,604	5,123	22,140	735	297,141
-	-	7	-	-	-	15,582	-	6,278	562	2,503	119	104,916
-	-	-	-	-	-	5	-	-	-	-	-	5
-	18	41	-	-	-	1,437	-	92	-	80	-	6,163
-	86	116	-	-	-	3,345	-	235	-	486	-	8,138
-	-	-	-	-	-	752	-	-	-	-	-	816
-	-	-	-	-	-	-	-	-	-	-	-	109
-	-	-	-	5	-	-	-	22	-	-	-	3,884
-	-	-	-	-	-	-	-	-	-	-	-	1,389
92	-	-	206	104	-	1,281	-	-	138	100	-	3,500
-	-	-	274	60	-	5,642	-	531	9	115	380	16,033
1,186	2,842	123	118	85	-	75,391	-	115	2,444	12,931	219	124,181
197	1,130	118	-	158	-	3,933	-	2,331	1,971	5,923	16	28,006

Fuel Consumption Table for Power Generation in 2008 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
20,673	36,741	2,724	83	2,716	8,495	201,074	7,825	34,710	27,269	672,592	9,030	2,023,004
6,894	5,023	978	-	251	4,558	61,197	x	22,871	6,924	492,094	3,348	1,462,293
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	1,571
-	-	-	-	-	-	-	-	-	-	410	-	3,632
-	-	-	-	-	-	-	-	-	-	-	-	9,438
-	-	-	-	-	-	-	-	-	-	-	-	640
-	-	-	-	-	-	-	-	-	-	-	-	381
-	-	-	-	-	-	-	-	-	-	-	-	345
298	386	32	41	126	155	661	60	127	39	1,722	107	13,494
180	9,934	-	42	370	927	3,422	1,462	2,419	340	5,513	121	45,772
13,300	20,648	1,684	-	1,969	2,854	135,794	6,167	9,294	19,966	155,341	5,454	459,782
-	751	31	-	-	-	-	136	-	-	17,513	-	25,656
1,067	4,088	406	587	416	-	110,717	-	9,915	4,654	23,032	996	298,212
-	-	7	-	-	-	18,247	-	6,301	598	2,776	380	105,151
-	-	-	-	-	-	8	-	-	-	-	-	8
-	21	45	-	-	-	1,395	-	95	-	194	-	6,167
-	99	118	-	-	-	3,291	-	310	-	630	-	9,113
-	-	-	-	-	-	732	-	-	-	-	-	830
-	-	-	-	-	-	-	-	-	-	-	-	155
-	-	-	-	30	-	-	-	31	-	-	-	3,469
-	-	-	-	-	-	-	-	-	-	-	-	1,246
63	-	-	195	130	-	1,424	-	-	1	60	21	3,782
-	-	-	274	34	-	5,441	-	581	8	139	343	20,356
1,004	2,934	125	118	72	-	76,356	-	140	2,327	12,951	239	119,794
-	1,035	110	-	151	-	3,823	-	2,458	1,721	6,282	14	28,141

3.22.6 Stock Table by Energy Resources

Stock Table by Energy Resource in 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Opening Stocks									
Hard Coal	-	-	-	-	-	-	-	150	-
Coking Coal	-	-	-	-	-	-	-	-	-
Other bituminous coal	-	-	-	-	-	-	-	150	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	2,093	2,623	7,236	950	-	-	-	14,983	11,343
Gasoline	761	8	1,780	169	-	-	-	1,542	378
Naphtha	232	7	400	92	-	-	-	711	294
Jet Fuel	-	-	3	-	-	-	-	-	-
Kerosene	595	17	2,376	438	-	-	-	1,769	1,516
Gas/Diesel Oil	159	-	452	254	-	-	-	2,840	1,482
Fuel Oil	218	1	153	94	-	-	-	2,933	1,088
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	679	13	4,005	11	-	-	-	385	293
Natural Gas	-	-	5,006	15	-	-	-	15	1,053
Others	-	-	-	-	-	-	-	-	-
Total Opening Stocks	4,737	2,669	21,411	2,023	-	-	-	25,329	17,448
Closing Stocks									
Hard Coal	-	-	-	-	23,479	-	1,647	-	-
Coking Coal	-	-	-	-	5,921	-	-	-	-
Other bituminous coal	-	-	-	-	9,080	-	-	-	-
Subbituminous Coal	-	-	-	-	8,478	-	1,647	-	-
Anthracite	-	-	-	-	9,696	-	-	-	-
Lignite	-	-	-	-	854	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	15,260	-	-	-	-
BKB/PB	-	-	-	-	6	-	-	-	-
Crude Oil & NGL	2,032	2,781	7,309	883	6,765	-	-976	12,795	14,477
Gasoline	806	11	1,939	278	-	-	-	1,510	545
Naphtha	269	7	423	58	-	-	-	675	267
Jet Fuel	-	-	4	-	-	-	-	-	-
Kerosene	796	16	2,204	222	-	-	-	1,564	1,776
Gas/Diesel Oil	162	-	382	172	-	-	-	2,406	1,418
Fuel Oil	202	0	107	90	-	-	-	2,376	852
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	656	13	3,538	33	-	-	-	327	381
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Total Closing Stocks	4,923	2,829	15,907	1,735	56,060	-	671	21,654	19,716
Stock Change									
Hard Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Other bituminous coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	-	-	-	-	-
Gasoline	-	-	-	-	-	-	-	-	-
Naphtha	-3,119	-86	-682	-439	-4,389	-4,769	-	-5,254	-3,689
Jet Fuel	-	-	-	-	-	-	-	-	-
Kerosene	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	-	-	-	-	-	-	-	-	-
Fuel Oil	-	-	-	-	-	-	-	-	-
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	-	-	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Total Stock Change	-3,119	-86	-682	-439	-4,389	-4,769	-	-5,254	-3,689

Stock Table by Energy Resource in 2009 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
164	-	-	-	196	-	-	-	4,534	-	-	-	5,044
-	-	-	-	-	-	-	-	358	-	-	-	358
-	-	-	-	196	-	-	-	3,686	-	-	-	4,032
164	-	-	-	-	-	-	-	489	-	-	-	653
-	-	-	-	-	-	-	-	13	-	-	1,652	1,665
-	-	-	-	-	-	-	-	-	16	-	-	16
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	8	-	-	-	-	-	-	-	8
-	-	-	-	-	-	-	-	-	-	-	-	-
961	3,404	407	69	45	421	38,804	-	4,669	935	129,651	-	218,594
-	1,180	225	-	-	-	2,081	-	964	-	22,292	-	31,381
-	133	67	-	375	-	-	-	-	-	3,969	206	6,486
-	-	-	-	-	-	-	-	-	-	-	-	3
-	952	227	-	-	-	3,844	-	864	-	19,075	660	32,333
-	630	23	-	-	65	5,884	-	505	-	8,668	317	21,280
-	95	9	-	-	-	260	-	230	-	6,569	-	11,649
-	-	-	-	-	-	-	-	-	-	-	-	-
-	267	61	-	-	-	-	-	-	-	7,213	-	12,929
-	-65	-88	-	-	-	5,270	-	-	-	-6,748	-	4,459
-	-	-	-	-	-	-	-	-	-	-	-	-
1,125	6,596	931	69	624	486	56,144	-	11,778	951	190,690	2,835	345,847
-	-	-	-	-	-	-	-	3,696	-	-	-	28,822
-	-	-	-	-	-	-	-	318	-	-	-	6,240
-	-	-	-	-	-	-	-	2,920	-	-	-	12,000
-	-	-	-	-	-	-	-	458	-	-	-	10,582
-	-	-	-	154	-	-	-	-	18	-	-	9,868
-	-	-	-	-	-	-	-	-	-	-	-	854
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	69	-	-	15,329
-	-	-	-	-	-	-	-	-	758	-	-	763
-	2,968	464	-	-	-	40,439	-	4,318	-	133,169	1,008	228,434
-	1,114	231	4	451	65	2,365	-	1,020	596	23,766	-	34,703
-	116	66	-	-	-	-	-	-	-45	4,697	-	6,532
-	-	-	-	-	-	-	-	-	-	-	-	4
-	746	195	11	917	98	3,707	-	1,135	-336	22,234	-	35,286
-	580	34	1	114	-	5,259	-	362	345	8,368	-	19,603
-	95	7	1	35	21	288	-	326	498	6,449	-	11,348
-	-	-	-	-	-	-	-	-	-	-	-	-
-	277	50	15	109	-	-	-	-	-	6,692	-	12,092
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	5,896	1,047	33	1,780	184	52,058	-	10,858	1,903	205,376	1,008	403,638
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-2,661	-737	-	-	-976	-5,858	-	-1,754	-3,366	-21,572	-	-59,350
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-2,661	-737	-	-	-976	-5,858	-	-1,754	-3,366	-21,572	-	-59,350

3.22.7 Power Generation Capacity Table

Power Generation Capacity - Total

MW

	1980	1990	2000	2005	2006	2007	2008	2009
Australia	24,141	38,451	46,208	50,546	51,216	53,190	54,627	56,945
Brunei Darussalam	148	334	763	759	759	759	814	814
Canada	81,999	104,141	111,324	122,838	123,947	126,376	127,610	131,478
Chile	2,940	3,782	9,660	11,958	11,977	12,774	13,136	16,153
China	65,869	137,891	319,321	509,410	622,000	713,290	792,530	873,970
Hong Kong, China	3,342	8,342	11,568	11,804	12,320	12,644	12,624	25,288
Indonesia	2,554	9,275	20,762	27,664	30,958	31,416	30,298	30,298
Japan	143,698	194,730	258,838	274,558	274,467	275,529	275,588	277,511
Republic of Korea	9,391	21,021	53,693	66,537	70,081	73,373	79,859	80,610
Malaysia	2,334	5,582	13,762	23,626	21,088	22,973	23,029	26,637
Mexico	14,625	27,371	40,345	52,497	55,352	57,839	58,304	59,326
New Zealand	6,112	7,176	8,456	8,852	8,863	9,413	9,372	9,485
Papua New Guinea	313	490	543	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	3,140	4,143	6,070	6,201	6,658	6,658	7,158	3,419
Philippines	4,488	6,869	13,185	15,619	15,803	15,803	13,048	13,319
Russia	168,200	213,400	212,771	N.A.	221,414	223,981	225,238	-
Singapore	2,010	3,667	6,610	10,106	10,106	10,606	10,606	10,606
Chinese Taipei	9,056	16,883	27,385	43,146	45,009	45,881	46,382	47,976
Thailand	3,448	8,725	20,802	26,269	26,815	28,285	30,508	30,508
United States of America	578,600	733,589	812,630	978,539	986,954	995,879	1,011,255	1,026,871
Viet Nam	1,185	2,537	6,192	11,340	11,823	N.A.	N.A.	N.A.

Power Generation Capacity - Thermal Power

MW

	1980	1990	2000	2005	2006	2007	2008	2009
Australia	18,038	30,130	36,945	40,460	41,042	42,539	43,774	45,757
Brunei Darussalam	148	334	763	759	759	759	814	814
Canada	28,363	31,201	33,183	36,794	36,264	37,757	37,436	39,605
Chile	1,470	1,423	5,616	7,233	7,252	7,907	8,173	10,666
China	45,551	101,845	237,540	384,130	484,050	554,420	601,320	652,050
Hong Kong, China	3,342	8,342	11,568	11,804	12,320	12,644	12,624	12,644
Indonesia	2,176	7,040	17,386	23,643	26,626	26,844	25,845	25,845
Japan	98,071	124,984	166,648	177,223	175,767	176,339	176,412	179,324
Republic of Korea	7,647	11,065	36,817	45,365	46,666	49,888	55,977	56,482
Malaysia	1,721	4,185	11,708	21,242	18,758	20,611	20,745	23,134
Mexico	8,483	18,155	28,441	39,540	42,110	43,817	44,383	44,967
New Zealand	1,852	2,296	2,809	2,883	2,894	3,273	3,061	2,959
Papua New Guinea	213	335	319	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	1,273	1,744	3,210	2,938	3,395	3,395	2,244	142
Philippines	3,099	3,661	8,953	10,393	10,542	10,542	8,676	9,041
Russia	122,400	149,700	146,670	N.A.	151,513	153,335	154,778	-
Singapore	2,010	3,667	6,610	10,106	10,106	10,606	10,606	10,606
Chinese Taipei	6,398	9,177	17,819	32,756	34,564	35,277	35,650	37,177
Thailand	2,178	6,451	17,865	20,575	21,023	22,412	24,547	24,547
United States of America	444,181	536,667	610,124	767,316	772,160	775,198	781,792	786,052
Viet Nam	890	1,362	2,900	4,382	7,137	N.A.	N.A.	N.A.

Power Generation Capacity - Hydro Power

MW

	1980	1990	2000	2005	2006	2007	2008	2009
Australia	6,103	8,321	9,201	9,285	9,285	9,317	9,304	9,298
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	47,770	59,381	67,407	71,978	72,838	73,458	74,407	75,094
Chile	1,470	2,359	4,044	4,723	4,723	4,847	4,943	5,404
China	20,318	36,046	79,352	116,520	128,570	145,260	171,520	196,790
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	378	2,095	3,015	3,221	3,532	3,529	3,510	3,510
Japan	29,776	37,831	46,325	47,348	47,357	47,374	47,637	47,949
Republic of Korea	1,157	2,340	3,149	3,883	5,485	5,492	5,505	5,515
Malaysia	613	1,397	2,054	2,091	2,120	2,120	2,120	2,107
Mexico	5,992	7,838	9,653	10,598	10,800	11,577	11,471	11,530
New Zealand	4,022	4,619	5,193	5,347	5,346	5,348	5,376	5,378
Papua New Guinea	100	155	224	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	1,868	2,400	2,860	3,207	3,216	3,216	3,242	3,277
Philippines	943	2,153	2,301	3,222	3,257	3,257	2,950	2,914
Russia	37,500	43,400	44,345	N.A.	46,062	46,804	47,066	-
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	1,386	1,562	4,422	4,512	4,512	4,523	4,540	4,539
Thailand	1,270	2,274	2,936	3,476	3,476	3,475	3,481	3,481
United States of America	81,700	92,360	98,881	98,887	99,282	99,771	99,788	100,678
Viet Nam	250	1,176	3,292	4,155	4,401	N.A.	N.A.	N.A.

Power Generation Capacity - Nuclear Power

MW

	1980	1990	2000	2005	2006	2007	2008	2009
Australia	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	5,866	13,538	10,615	13,345	13,345	13,345	13,345	13,345
Chile	-	-	-	-	-	-	-	-
China	-	-	2,100	6,840	6,850	8,850	8,850	9,000
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Japan	15,689	31,645	45,248	48,222	49,580	49,467	49,467	47,935
Republic of Korea	587	7,616	13,716	17,176	17,716	17,716	17,716	17,716
Malaysia	-	-	-	-	-	-	-	-
Mexico	-	675	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.
Peru	-	-	-	-	-	-	-	-
Philippines	-	-	-	-	-	-	-	-
Russia	8,300	20,300	21,730	N.A.	23,742	23,742	23,304	-
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	1,272	5,144	5,144	5,144	5,144	5,144	5,144	5,144
Thailand	-	-	-	-	-	-	-	-
United States of America	51,810	99,643	97,860	99,988	100,334	100,266	100,755	101,004
Viet Nam	-	-	-	-	-	N.A.	N.A.	N.A.

Power Generation Capacity - Others

MW

	1980	1990	2000	2005	2006	2007	2008	2009
Australia	-	-	62	801	889	1,334	1,549	1,890
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	-	21	119	721	1,500	1,816	2,422	3,434
Chile	-	-	-	2	2	20	20	83
People's Republic of China	-	-	329	1,920	2,530	4,760	10,840	16,130
Hong Kong, China	-	-	-	-	-	-	-	12,644
Indonesia	-	140	360	800	800	1,043	942	942
Japan	162	270	617	1,765	1,763	2,349	2,072	2,303
Republic of Korea	-	-	11	113	214	277	661	897
Malaysia	-	-	-	293	210	242	164	1,396
Mexico	150	703	886	994	1,077	1,080	1,085	1,464
New Zealand	238	261	454	622	623	792	935	1,148
Papua New Guinea	-	-	-	N.A.	N.A.	N.A.	N.A.	N.A.
Peru	-	-	1	55	47	47	1,672	-
Philippines	446	1,055	1,931	2,004	2,004	2,004	1,422	1,364
Russia	-	-	26	N.A.	97	100	90	-
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	-	1,000	-	735	789	936	1,048	1,116
Thailand	-	-	1	2,218	2,316	2,398	2,480	2,480
United States of America	909	4,919	5,765	12,348	15,178	20,644	28,920	39,137
Viet Nam	45	-	-	2,803	285	N.A.	N.A.	N.A.

Appendices

A. Definition of Products

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

B. Definition of Flows

C. Energy Prices

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

E. Conversion Factors

A. Definition of Products

COAL

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

1. Anthracite

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 of retail. Examples are prices paid by

electricity distribution companies to electricity generators or suppliers.

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

Table 3. Consumer Prices

These are the prices paid by end-use consumers such as motorists buying fuel in filling stations, household electricity bills, coal briquette prices in supermarkets, etc. The prices may also be in local currency units or in US Dollars.

Electricity prices are prices charged to the industrial, commercial, residential rates and rates to other consumers. Commercial sector include the government services and streetlights. Others include agriculture and other sectors not included in industrial, commercial and residential.

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

DEFINITION OF COLUMNS AND ROWS OF THE ENERGY BALANCE TABLE

1. Unit

For the purpose of presenting its energy balances APEC has adopted kcal and Joules. 10^7 kcal (41.863 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 2.

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 2009

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal									
Coking Coal	6,807		5,979	6,840	5,775			6,581	6,750
Anthracite			6,616		6,565	6,998		6,105	5,643
Other Bituminous Coal	6,138		6,369	6,650	5,073	6,298		5,833	5,950
Sub-bituminous Coal	4,413		4,574		4,675		5,880	5,106	5,000
Lignite	2,224		3,583		3,363				
Peat									
Coal Products									
Patent Fuels								5,481	4,600
Coke Oven Coke	6,126		6,542	6,842				6,670	7,000
Coal Tar				9,880	8,000				
Coal Briquettes	5,015				4,170		4,740		
Crude Oil and NGL									
Crude Oil	10,358	11,146	10,220	10,862	10,000			10,139	10,199
Natural Gas Liquids	10,846		10,801	10,240				11,205	
Refinery Feedstocks	10,338		10,151					10,347	10,700
Additives/Oxygenates	6,401		6,401						1,836
Other Hydrocarbons			10,000						
Petroleum Products									
Refinery Gas	11,488	11,971	11,488	11,488	11,000			10,515	11,488
Ethane	11,799		11,799	11,799					11,799
LPG	11,393	11,518	11,297	11,297	12,000	10,878	11,934	11,528	11,393
Naptha	10,318		10,748	10,748	9,176	10,540		10,346	10,318
Motor Gasoline	10,653	9,898	10,700	10,700	10,300	10,217	11,064	10,654	10,653
Bio-ethanol	6,401		6,401						
Aviation Gasoline	10,653		10,700	10,700			9,801		10,653
Gasoline Type Jet Fuel			10,700	10,700	10,300				10,653
Kerosene Type Jet Fuel	10,629	10,144	10,653	10,653	10,300	10,262	10,398	10,630	10,629
Other Kerosene	10,247	10,144	10,461	10,461	10,300	10,522	10,212	10,232	10,247
Gas/Diesel Oil	10,175	9,764	10,175	10,175	10,200	10,150	9,166	10,149	10,175
Bio-diesel	8,790		6,401						9,126
Fuel Oil	10,175	9,374	9,602	9,602	10,000	9,912	10,319	10,552	10,175
White Spirit SBP	10,270		10,270	10,270	9,176				10,270
Lubricants	10,247	9,486	10,032	10,032	9,176			10,246	10,247
Bitumen	9,267	9,072	9,554	9,554	9,176				9,267
Paraffin Wax	9,554				9,176				9,554
Petroleum Coke	8,073		7,643	7,643	9,176			6,786	8,073
Other Products	9,554	8,712	9,554	9,554	9,176		9,996	9,281	9,554
Natural Gas									
Natural Gas	8,712	9,290	8,261	8,407	9,310	8,924	8,880	8,423	8,960
New and Renewables									
Fuel wood and Wood waste	3,701		3,701	3,701			3,056	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				3,344	3,343
Municipal Solid Waste	3,343		3,343	3,343				3,344	3,343
Liquid Biofuels	6,386		6,386	6,386					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 2009 (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
	5,609	7,102				6,807		7,011		6,732	5,600
				6,995		6,927		6,745		6,879	5,600
	5,609	6,761		7,295		5,734		6,128		6,400	
5,985	4,635	4,937			5,278			5,605		4,541	
	3,368	3,467				3,563		3,957		3,319	5,600
						2,380					
								3,610			
	6,334			6,395		6,930		6,650		6,889	
						4,200					
10,313	10,411	10,151	10,120	10,271	9,905	10,050	10,709	10,442	10,089	10,306	10,180
10,485	10,189	10,731	10,120	10,271	7,694	10,010			9,173	11,060	
10,349		10,454								10,484	
	5,923	6,400								1,431	
		10,000								12,182	
10,149	11,488	11,488	10,515	15,002		11,820	11,500	14,996		11,488	
	11,799					11,820				11,799	
10,877	11,297	11,393	11,393	11,078	10,760	10,990	11,923	11,893	11,778	11,297	10,880
	10,748		10,500		11,031	10,510	11,923	10,924		10,748	9,910
10,500	10,700	10,653	10,654	10,402	10,560	10,510	11,174	10,494	10,320	10,700	10,500
		6,400			5,637					6,388	
	10,700	10,653			10,894	10,510		10,669	10,320	10,700	
	10,700					1		10,485	11,675	10,700	
10,316	10,653	10,629	10,632	10,230	9,957	10,270	12,425	10,038	11,675	10,653	10,320
10,150	10,461	10,247	10,233	10,230	9,855	10,270	11,140	10,600	10,416	10,461	10,320
10,150	10,175	10,175	10,284	9,888	10,049	10,170	10,957	10,066	10,051	10,175	10,150
		10,350			8,609					9,777	
9,912	9,602	10,175	10,520	10,381	9,819	9,550	9,839	10,027	10,105	9,602	9,910
	10,270	10,270				10,410		11,538		10,270	
	10,032	10,247	10,240			10,030		9,600		10,032	9,910
	9,554	9,267			9,248	9,310		10,000		9,554	9,910
	9,554	9,554				9,550		10,664		9,554	
	7,643	8,073	8,078			7,640		8,200		7,643	9,910
10,150	9,554	9,554	9,602	10,240	9,864	9,550	10,320	12,496	9,940	9,554	9,910
8,385	8,055	8,544	8,113	8,258	8,222	8,218	8,385	9,000		8,207	9,000
4,456	3,701	3,701		3,598	3,455	3,701		3,039	3,820	3,701	
	1,958	1,958		1,499	4,042	1,958			1,800	1,958	
	6,897	6,897		6,558	6,313	6,897			6,927	6,897	
4,456	3,701	3,701		3,596	3,163	3,701			3,215	3,701	3,302
								3,690			
	3,343	3,343				3,343				3,343	
4,456	3,343	3,343				3,343	3,344	2,092	1,091	3,343	
6,400	6,386	6,386		12,163	8,618	6,386			9,707	6,386	