



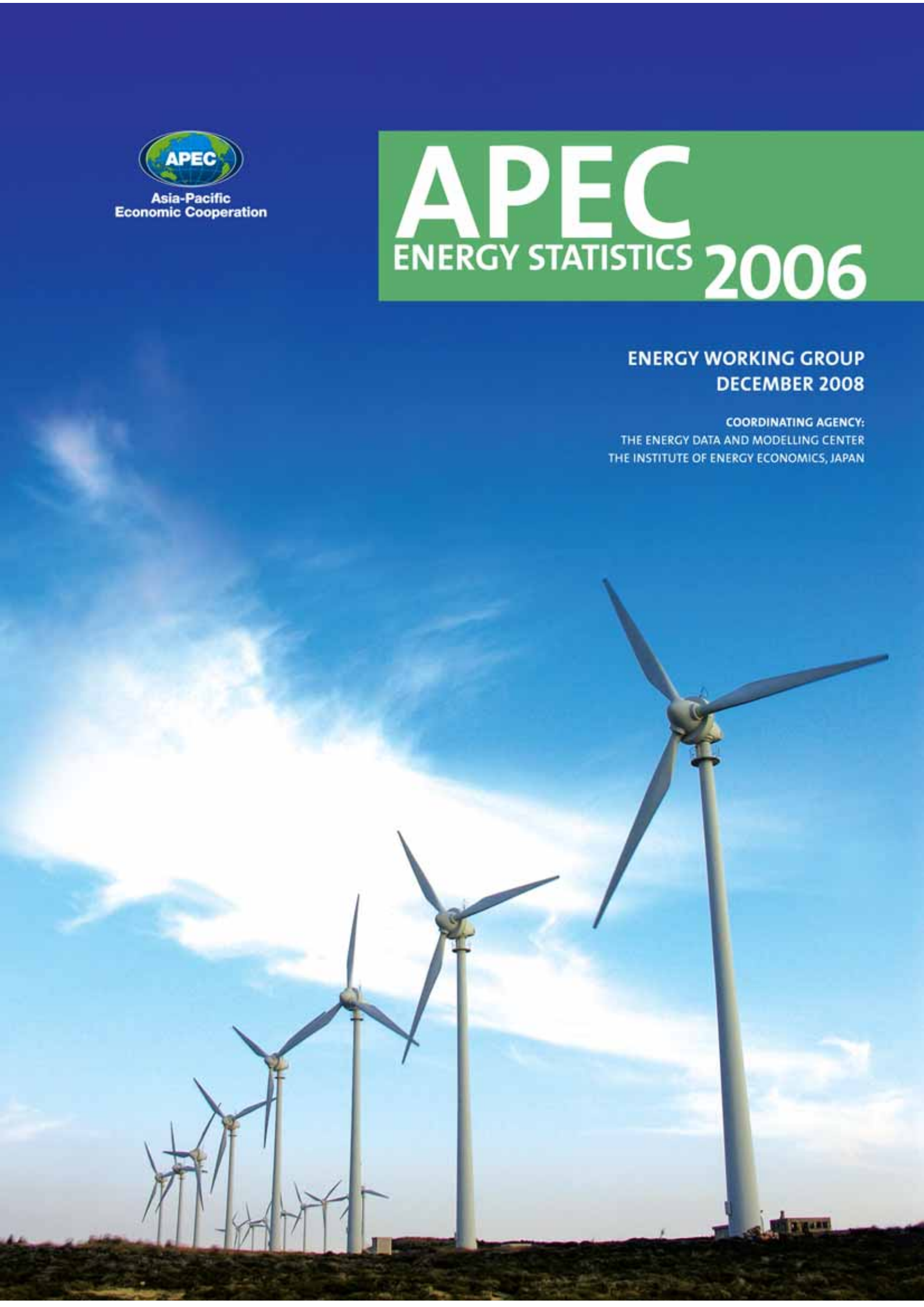
Asia-Pacific
Economic Cooperation

APEC

ENERGY STATISTICS 2006

**ENERGY WORKING GROUP
DECEMBER 2008**

**COORDINATING AGENCY:
THE ENERGY DATA AND MODELLING CENTER
THE INSTITUTE OF ENERGY ECONOMICS, JAPAN**



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PREFACE

The APEC Energy Statistics 2006 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 trend of energy demand and supply.

Chapter 3 consists of annual and quarterly tables by the member economies. The annual tables contain Energy Balance Tables for 2006 and 2005 and Energy Prices for 2006. The annual tables also involve Major Energy Indicators which include primary energy supply, final energy consumption, demand and supply by energy sources and electricity as well as Major Economic Indicators which include population, GDP, balance of payments, foreign exchange rate, purchasing power parity, price indices and so on. These tables cover the data from 1980 to 2006 except Russia and Viet Nam which do not have data from the '80s to the early 90's. The objective is to report the most recently updated data.

APEC Energy Statistics 2006 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 Explanation of the APEC Energy Statistics

The APEC Energy Statistics consist of energy data submitted by each member economy as well as social and economic data collected by EDMC (The Energy Data and Modelling Center), which is 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 new set of questionnaires for Oil, Coal, Natural Gas, Electricity and Heat, as well as New and Renewable Energy (NRE). 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 new format or the APEC Annual Energy Questionnaires, the members report 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, Liquid and 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. developed computer programs to transfer data from the IEA format to APEC format and to generate energy balance tables from the APEC questionnaires.

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. In principle, all twenty-one APEC members are expected to submit annual data to the C.A. on the aforementioned deadline. Hong Kong, China; New Zealand; Chinese Taipei and Thailand were able to submit the 5 energy questionnaires by the deadline while Indonesia was able to submit only 4 of the 5

questionnaires. The Philippines also submitted the 2006 energy data but not in the prescribed format; it submitted its energy commodity account and energy balance table. China submitted the 5 questionnaires. The remaining non-OECD APEC economies submitted after December 2007 except for Papua New Guinea and Singapore. 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

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

As of June 30, 2008, only 17 APEC economies have submitted data to the C.A. Two submitted data in August. Brunei Darussalam and Viet Nam submitted their energy balance tables for 2006. Of the remaining two economies, Papua New Guinea submitted crude oil and natural gas production 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 as well as electricity generation and inputs. 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 JODI. The C.A. will highly appreciate if Singapore does the estimation of the data and submit the same 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 new 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. In the previous years, 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 treated using the above adjustments.

1.3 Secondary Data

Using the original data submitted by each member, 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

The energy balance table is, in principle, the same as that of the IEA but with some adjustment. The different

values could be attributed to the following:

- 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 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 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 before 2000.

b. Papua New Guinea

C.A. estimated energy balance tables from 2000 to 2006 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. 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 2006.

2 issues in Singapore's data.

- No data in the Final Energy Consumption Sector are reported by Singapore.
- Petroleum Refinery inputs (Crude Oil, etc.) and outputs (Petroleum Products) are not submitted.

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 social and economic indicators (ex: GDP etc.).

d. Viet Nam

Viet Nam did not submit annual energy data in the new APEC format for 2005. In this regard, the C.A. entered the data in the new format and generated the energy balance table.

1.5 Socio-Economic Data

At the moment, the socio-economic 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, nominal dollar and real PPP (Purchasing Power Parity) terms.

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 United States of America

e. Latin America:

Chile, Mexico and Peru

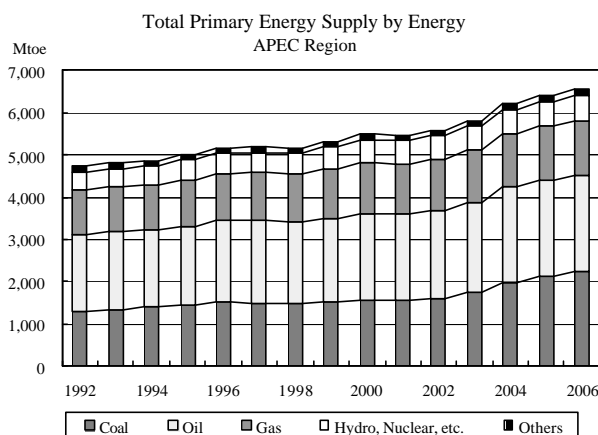
From 2004, APEC collected the member economies' annual energy data using the new format which resulted to some inconsistencies with the historical data. To analyze the historical trend, there are some issues in connection with the data before 2003.

- Non-commercial energy is reported by most economies from 2004. However, in 2003, only a few economies were able to submit the data for these few economies, non-commercial energy data are excluded from this analysis.
- Likewise, non-energy usage is treated as an independent sector in 2003. This was changed starting with the 2006 publication and used the new definition by which non-energy consumptions are parts of the final consumption.

2.2 Analysis of Energy Supply and Demand in the APEC Region

This section discusses energy supply and demand in the APEC region.

2.2.1 Primary Energy Supply



The level of primary energy supply in 2006 of 6,554

Mtoe increased by 2.0% from the 2005 level of 6,425 Mtoe. In the period 1992 to 2006, primary energy supply had an average growth rate of 2.6% per annum, in contrast with the 3.2% growth in real GDP over the same period. As a result, elasticity of demand was calculated at 0.74 for this period.

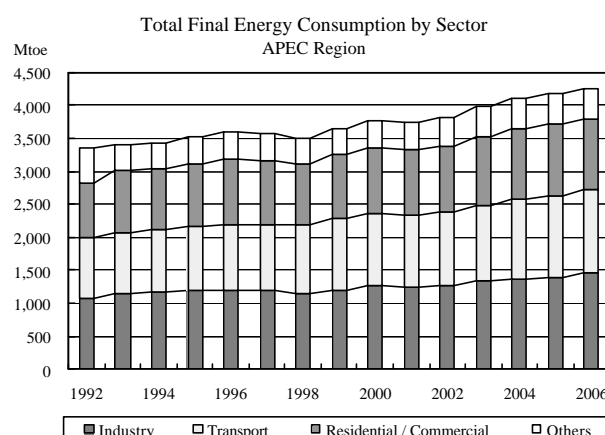
For the period 1992 to 2006, coal supply rose at an average rate of 4.2% per annum to reach 2,243 Mtoe. Oil supply rose at an average rate of 1.7% per annum to reach 2,260 Mtoe. Gas supply increased by 1.7% per annum to reach 1,299 Mtoe. The supply of hydro, nuclear, etc. grew by 2.7% per annum to reach 606 Mtoe. The category of "Others" grew 1.3% per annum, the total was small at 146 Mtoe and the share was 2.2% in 2006.

2.2.2 Final Energy Consumption

The level of final energy consumption in 2006 of 4,252 Mtoe grew by 1.7% from the 2005 level of 4,179 Mtoe. The growth rate was also 1.7% per annum from 3,357 Mtoe in 1992. This growth rate for 14 years was lower than that of primary energy supply. It indicates that net energy consumption growth in the transformation sector surpassed that of the final energy consumption sector.

The final energy consumption of the residential/commercial and other sectors decreased by 1.1%, from

1,548 Mtoe in 2005 to 1,531 Mtoe in 2006. The transport sector consumption grew by 1.5% from 1,240 Mtoe in 2005 to 1,259 Mtoe in 2006 while industrial sector consumption grew by 5.1% from 2005 to 2006. Its total consumption of 1,463 Mtoe was the largest for all sectors in 2006 with a share of 34.4% to the total final consumption. The transportation sector share was 29.6% while the residential/commercial sector share was 25.0%.



By fuel, oil consumption increased by 1.2% from 1,970 Mtoe in 2005 to 1,994 Mtoe in 2006. This grew at an average rate of 2.2% per annum from 1,469 Mtoe in 1992.

Electricity consumption rose by 4.8% from 809 Mtoe in 2005 to 847 Mtoe in 2006 while gas consumption decreased by 0.6% to 624 Mtoe in 2006. Coal consumption grew by 2.7% from 497 Mtoe in 2005 to 511 Mtoe in 2006.

APEC Region	2006												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	2,338	-	1,487	7	1,409	135	425	47	154	-	-	6,002	
2 Import	296	8	1,352	410	258	-	-	-	1	8	-	2,334	
3 Export	-370	-13	-546	-341	-348	-	-	-	-0	-9	-	-1,628	
4 International Marine Bunkers	-	-	-	-90	-	-	-	-	-	-	-	-90	
5 Stock Change	-14	-2	-4	-14	-20	-	-	-	-10	-	-	-65	
6 Total Primary Energy Supply	2,251	-8	2,289	-29	1,299	135	425	47	146	-1	-	6,554	
7 Public Electricity	-1,311	-66	-7	-71	-485	-131	-425	-44	-18	946	94	-1,516	
8 Autoproducers of Electricity	-97	-26	-1	-43	-61	-4	-	-0	-32	67	130	-68	
9 Gas Processing	-9	-2	-	-2	-5	-	-	-	-	-	-	-18	
10 Petroleum Refineries	-	-	-2,203	2,196	-	-	-	-	-	-	-	-6	
11 Coal Transformation	-385	242	-	-1	-0	-	-	-	-	-	-	-144	
12 Other Transformation	-	-	16	-8	-4	-	-	-	-13	-	-	-8	
13 Loss & Own Use	-74	-10	-11	-113	-114	-	-	-	-0	-169	-46	-537	
14 Discrepancy	14	-7	-16	-30	-6	-0	-	0	12	5	-1	-29	
15 Total Final Energy Consumption	388	123	7	1,987	624	-	-	3	96	847	176	4,252	
16 Industry Sector	305	113	3	297	230	-	-	0	63	369	83	1,463	
17 Transport Sector	5	0	0	1,184	55	-	-	-	-	15	-	1,259	
18 Other Sector	78	10	0	252	286	-	-	3	33	463	94	1,219	
18.1 Residential & Commercial	62	9	0	159	283	-	-	3	32	423	89	1,061	
18.2 Agriculture	12	1	0	62	1	-	-	-	0	13	3	92	
18.3 Other	4	0	0	31	2	-	-	-	0	28	1	66	

2.2.3 Energy Balance Table

This section presents the 2006 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:

- 63% of coal is used for power generation.
- Petroleum products consumed by APEC members are mainly refined within the region.
- The percentage share of gas consumption is third, behind petroleum products and electricity. The industrial and residential/commercial sectors are the dominant users.
- 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 4.2% of final energy consumption.
- Oil and Petroleum Products accounted for 47% of total final energy consumption, followed in order, by electricity, gas, and coal.

2.3 Analysis of Energy Supply and Demand by Energy Sources

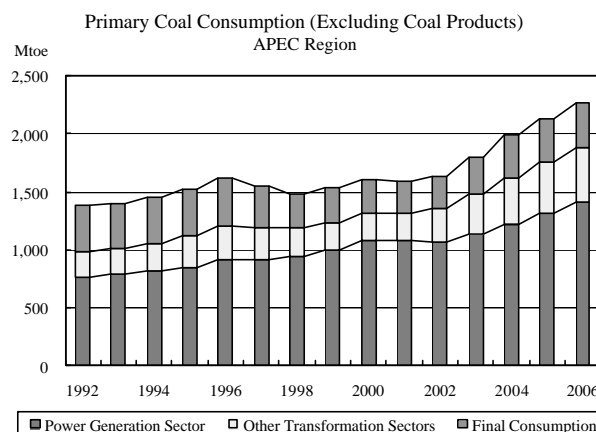
This section analyses energy supply and demand in the APEC region by energy sources.

2.3.1 Coal (excluding coal products)

The supply of coal increased by 4.2% from 2,159 Mtoe in 2005 to 2,251 Mtoe in 2006. Its share in the total primary energy supply is 27.9% in 1992 and increased to 35.1% in 2006.

Most coal (excluding coal products) is used for electricity generation, accounting for 62.6% of the total

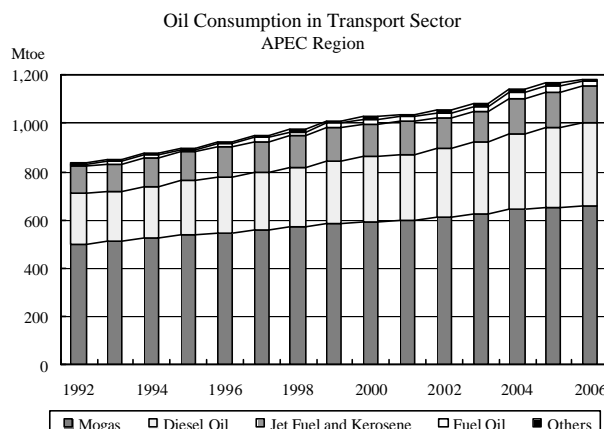
supply in 2006.



2.3.2 Oil

Oil supply increased by 0.1% from 2,259 Mtoe in 2005 to 2,260 Mtoe in 2006. It represented 34.5% of total primary energy supply in 2006.

More than half of all petroleum products are used in the transportation sector, with the major products being motor gasoline and automotive diesel oil. Recently, there has been a marked increase in the consumption of diesel.



2.3.3 Gas

The supply of gas increased by 1.5% from 1,280 Mtoe in 2005 to 1,299 Mtoe in 2006. Natural gas represented 19.8% of the total primary energy supply in 2006.

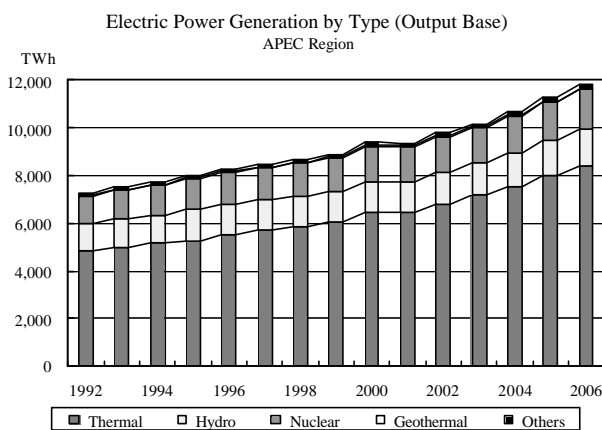
Most gas is consumed in the industrial and

residential/commercial sectors. As of 2006, 42.0% of gas was used for electric power generation.

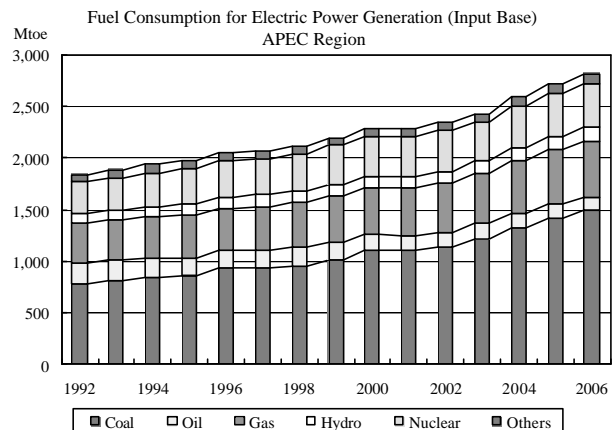
2.3.4 Electricity

Power generation rose by 4.8% from 11,289 TWh in 2005 to 11,834 TWh in 2006. From 1992 to 2006, power generation grew at an average rate of 3.5% per annum (from 7,263 TWh). Thermal power generation increased by 5.2% from 7,984 TWh in 2005 to 8,403 TWh in 2006. As a result, the share of thermal power generation was 71.0% of the total in 2006. Nuclear power generation grew by 2.1%, from 1,596 TWh in 2005 to 1,629 TWh in 2006. The hydropower generation rose by 5.0% from 1,494 TWh in 2005 to 1,569 TWh in 2006.

Non-fossil electricity generation, which includes hydro and nuclear, increased by 2.7%, from 590 Mtoe in 2005 to 606 Mtoe in 2006. From 1992 until 2006, their collective supply also grew at an average rate of 2.7% per annum.



When discussing the issue of global warming in the APEC region, there is significant room for exploring possible solutions, including improving the efficiency of coal-fired power generation units and converting from coal and oil to gas-fired generation in view of the fact that coal remains and still is the major fuel for electricity generation.



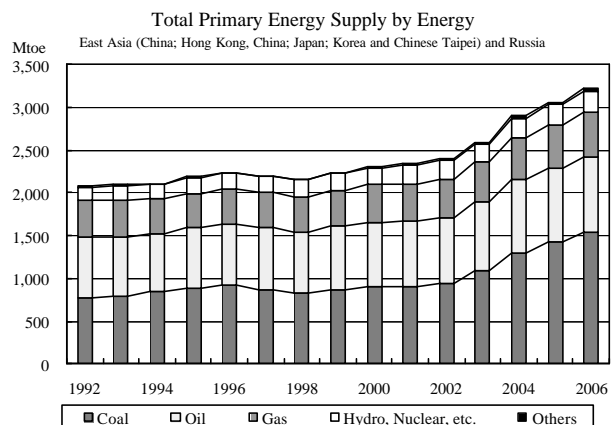
2.4 Analysis of Energy Supply and Demand by Region

This section divides the APEC region into five groups, namely East Asia and Russia, Southeast Asia, Oceania, North America and Latin America, to compare their energy supply and demand situations.

2.4.1 East Asia and Russia

Primary energy supply in this region rose by 5.3% to 3,219 Mtoe in 2006. Over the period 1992 to 2006, primary energy supply increased 3.4% per annum (from 2,086 Mtoe).

Coal and oil constitute the main energy sources in East Asia, accounting for 47.7% and 27.4% of total energy supply, respectively, in 2006.

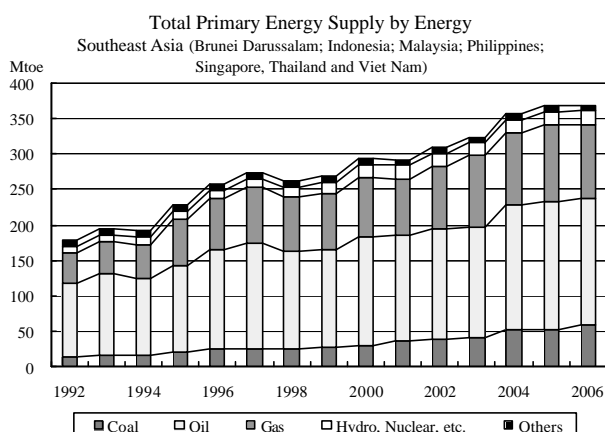


In terms of final energy consumption by sector, the

industrial sector has the highest consumption of 48.5% of total final energy consumption. This is followed in order by the residential/commercial sector and the transportation sector.

2.4.2 Southeast Asia

Primary energy supply in Southeast Asia increased by 0.3% to 369 Mtoe in 2006. From 1992 to 2006 it increased at an average rate of 5.3% per annum; the highest rate of growth among the five regional groups. The region's share to the total APEC region increased to 5.6% in 2006 comparing from 3.8% in 1992.



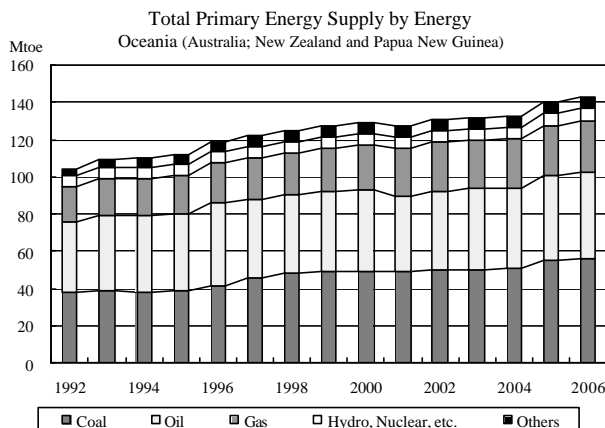
Although Southeast Asia relies heavily on oil, use of coal and gas has been increasing in recent years. Therefore the share of oil has dropped to 48.1% in 2006 from 58.0% in 1992.

The industrial sector consumes the largest amount of energy, followed in order by the transportation and residential/commercial sectors. Because most energy demand in the transportation sector is met by oil, consumption of this fuel has grown steadily.

2.4.3 Oceania

Primary energy supply in Oceania increased by 1.6% to 143 Mtoe in 2006. From 1992 to 2006, the average growth rate per annum was 2.4% (from 105 Mtoe). The

Oceania share of total APEC supply was only 2.2% in 2006.

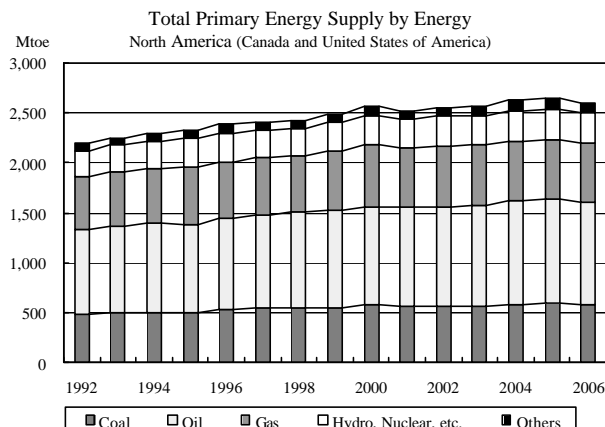


Coal and oil are the major energy sources in Oceania, accounting for 72.0% of total primary energy supply. Oil supply increased by 2.1% and gas supply increased by 2.5% in 2006.

In terms of final energy consumption by sector, the transport sector consumed the highest amount of energy, followed in order by the industrial sector, and the residential/commercial sector.

2.4.4 North America

Primary energy supply in North America decreased by 1.5% to 2,601 Mtoe in 2006. From 1992, it grew at an average rate of 1.2% per annum (from 2,197 Mtoe). The region accounted for 39.7% of energy supply in the APEC region in 2006.

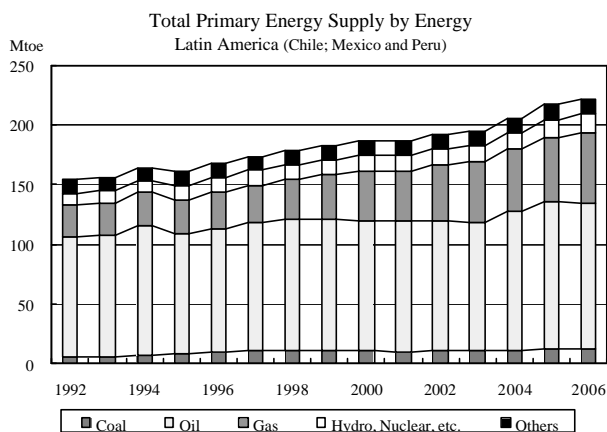


The main energy source in North America is oil, and the supply of oil has increased at an average rate of 1.4% per annum over the past 14 years.

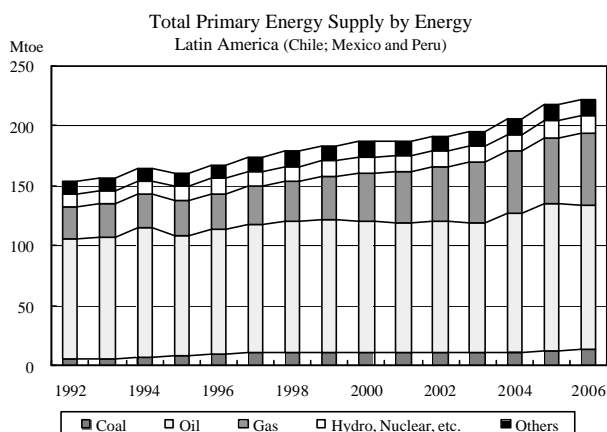
In terms of final energy consumption by sector, energy consumption by the industrial and transportation accounted for 18.9% and 40.0% of the total, respectively. The residential/commercial sector consumed 28.6% of the total.

2.4.5 Latin America

Primary energy supply in Latin America grew by 2.0% to 222 Mtoe in 2006, increasing by 2.6% per annum from 154 Mtoe in 1992.



Oil is the major energy source in Latin America and represented 54.6% of the total, followed by gas with a share of 26.7% in 2006.



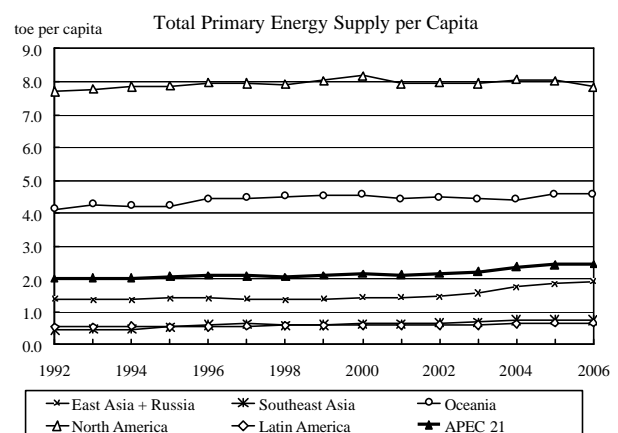
In terms of final energy consumption by sector, the transport and industrial sectors consumed 43.4% and 27.4% of the total, respectively, in 2006.

2.5 Other Analyses

This section analyses the per capita primary energy consumption, the elasticity of primary energy supply against real GDP and CO₂ Emissions in the region.

2.5.1 Primary Energy Supply Per Capita

North America had the highest primary energy supply (7.83 toe per capita) in the APEC region in 2006, followed in order by Oceania (4.59 toe), East Asia and Russia (1.94 toe), Southeast Asia (0.75 toe) and Latin America (0.67 toe). The average for APEC was 2.46 toe per capita in 2006.

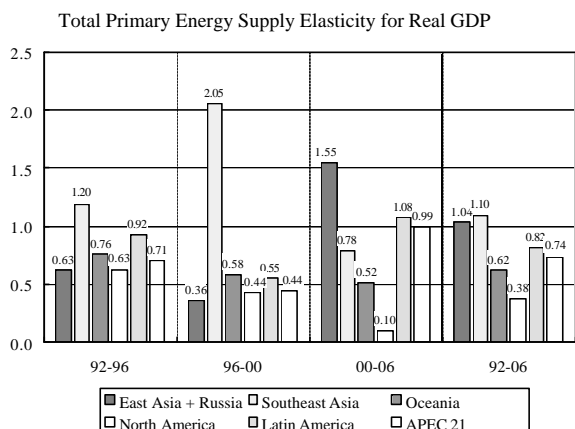


From 1992 to 2006, the APEC average growth rate in energy per capita was 1.4% per annum (from 2.02 toe per capita) while in Southeast Asia, the growth rate was 3.7% per annum. North America showed almost no growth (0.1%) over the same period.

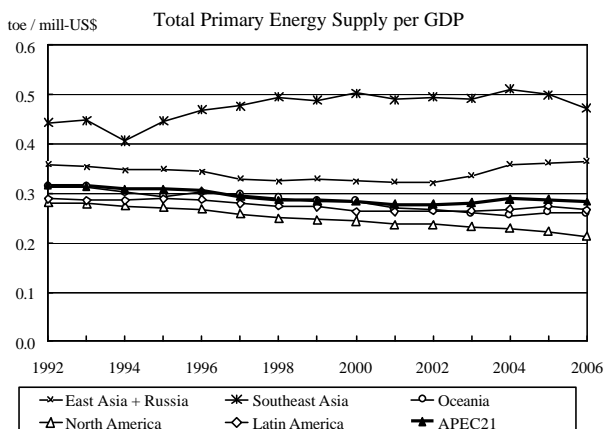
2.5.2 Elasticity of Primary Energy Supply against Real GDP

From 1992 to 2006, the elasticity of supply has

exceeded 1.0 in Southeast Asia (1.10) and East Asia and Russia (1.04), over the last 14 years. The converse is true for Oceania (0.62), North America (0.38, the lowest) and Latin America (0.82). Elasticity for the APEC region as a whole was 0.74. This means that when the GDP of the APEC region increased by one unit, energy supply increased 0.74 units.



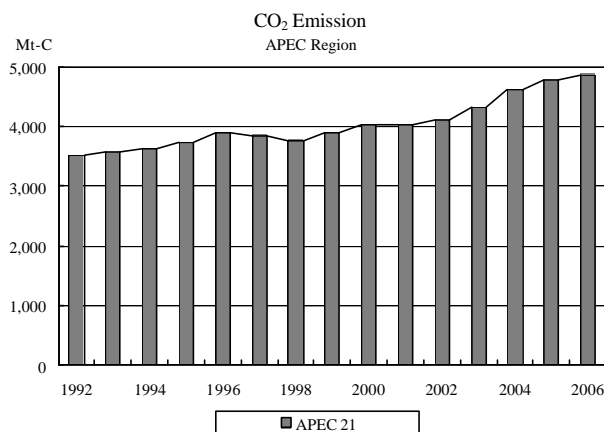
From 1992 to 2006, the average growth rate in energy intensity of GDP was -0.8% per annum (from 0.32 toe/million US\$ to 0.28 toe/million US\$). On the other hand, in Southeast Asia, the growth rate was 0.4% per annum for the last 14 years. In North America, the average growth rate was -1.9% per annum from 1992 to 2006.



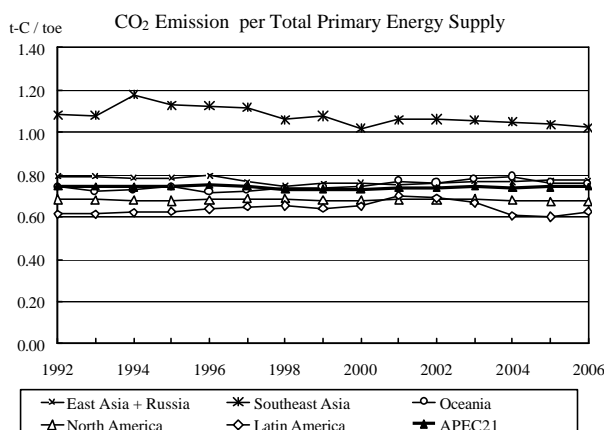
2.5.3 CO₂ Emissions from Fuel Combustion

The CO₂ emission data for 2006 were collected from 6 member economies, namely: Hong Kong, China; Japan; New Zealand; Chinese Taipei; Thailand and United

States. For the other member economies, the C.A. estimated the CO₂ emissions. Based on both of the data mentioned above, CO₂ emissions from fuel combustion grew by 4.5% from 4,770 Mt-C in 2005 to 4,783 Mt-C in 2006, or 2.3% per annum from 3,526 Mt-C in 1992. As a result, CO₂ emissions per total primary energy supply, per real GDP and per population became 0.74 t-C/toe, 210.5 t-C/US Million-dollar (at 2000 price) and 1.83 t-C/capita in 2006 respectively.



From 1992 to 2006, the average growth rate in CO₂ per energy was -0.03% per annum (0.744 t-C/toe in 2006), the average growth rate in CO₂ per real GDP decreased by 0.8% per annum, and the average growth rate in CO₂ per capita grew by 1.4% per annum.



3 Member Tables

3.1 Australia

Energy Balance Table of Australia in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	201,355	-	23,080	-	-	-	-	-	-
2 Import	-	-	20,026	11,918	2,890	-	689	-	5,349
3 Export	-150,035	-	-12,550	-1,748	-623	-	-107	-	-366
4 International Marine Bunkers	-	-	-	-967	-	-	-	-	-202
5 Stock Changes	2,766	-369	-829	-143	-43	-	48	-	-27
6 Total Primary Energy Supply	54,087	-369	29,727	9,060	2,225	-	630	-	4,754
7 Transfers	-	-	2,059	7,205	-	-	-	-	-
8 Total Transformation Sector	-51,448	1,549	-33,161	31,147	13,141	332	4,396	96	9,287
8.1 Main Activity Producer	-48,120	-626	-	-539	-	-	-	-	-403
8.2 Autoproducers	-	-15	-	-321	-	-	-	-	-107
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-33,188	32,027	13,141	332	4,396	96	9,797
8.5 Coal Transformation	-3,328	2,189	-	-21	-	-	-	-	-1
8.6 Other Transformation	-	-	27	-	-	-	-	-	-
9. Loss & Own Use	-	-319	-30	-2,660	-	-	-	-	-1,204
10. Discrepancy	-37	31	1,406	-5,512	-423	-313	-492	-49	-139
11 Total Final Energy Consumption	2,602	892	-	39,240	14,943	19	4,535	47	12,698
12 Industry Sector	2,500	827	-	7,156	-	19	-	3	2,530
13 Transport Sector	79	-	-	29,014	14,837	-	4,535	-	7,626
14 Other Sector	23	65	-	3,070	106	-	-	42	2,543
14.1 Residential & Commercial	23	65	-	904	-	-	-	42	522
14.2 Agriculture	-	-	-	2,166	106	-	-	-	2,021
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	3,408	-	-	-	5	-

Energy Balance Table of Australia in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	201,995	-	24,130	-	-	-	-	-	-
2 Import	-	-	21,377	9,651	2,483	-	830	-	3,444
3 Export	-150,340	-1	-14,828	-1,503	-636	-	-192	-	-309
4 International Marine Bunkers	-	-	-	-832	-	-	-	-	-53
5 Stock Changes	2,006	-484	-299	177	-20	-	-18	4	37
6 Total Primary Energy Supply	53,661	-485	30,379	7,492	1,828	-	620	4	3,119
7 Transfers	-	-	2,703	7,397	-	-	-	-	-
8 Total Transformation Sector	-51,069	1,715	-34,082	33,525	14,274	250	4,495	110	10,710
8.1 Main Activity Producer	-47,234	-642	-	-423	-	-	-	-	-349
8.2 Autoproducers	-	-19	-	-339	-	-	-	-	-109
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-34,093	34,307	14,274	250	4,495	110	11,168
8.5 Coal Transformation	-3,835	2,376	-	-20	-	-	-	-	-
8.6 Other Transformation	-	-	10	-	-	-	-	-	-
9. Loss & Own Use	-	-313	-27	-2,487	-	-	-	-	-989
10. Discrepancy	-36	-0	1,027	-6,745	-367	-219	-619	-29	-195
11 Total Final Energy Consumption	2,556	918	-	39,182	15,734	31	4,496	85	12,646
12 Industry Sector	2,432	842	-	6,622	-	31	-	5	2,318
13 Transport Sector	92	-	-	29,583	15,631	-	4,496	-	7,911
14 Other Sector	31	76	-	2,977	104	-	-	77	2,417
14.1 Residential & Commercial	31	76	-	861	-	-	-	77	436
14.2 Agriculture	-	-	-	2,116	104	-	-	-	1,981
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	3,220	-	16	-	6	2

Energy Balance Table of Australia in 2006 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	36,933	1,378	-	206	4,966	-	-	267,918	
1,289	346	-	-	1,355	1,204	-	-	-	-	-	-	33,149	
-444	-	-	-	-208	-14,611	-	-	-	-	-	-	-178,944	
-765	-	-	-	-	-	-	-	-	-	-	-	-967	
42	-25	-	-	-138	-	-	-	-	-	-	-	1,426	
122	321	-	-	1,009	23,526	1,378	-	206	4,966	-	-	122,582	
-	689	-	515	6,000	-	-	-	-	-	-	-	9,264	
638	693	969	-	1,594	-6,580	-1,378	-	-148	-1,155	21,643	-	-39,533	
-136	-	-	-	-	-4,822	-1,354	-	-148	-299	20,534	-	-35,374	
-214	-	-	-	-	-2,729	-24	-	-	-827	1,109	-	-2,807	
-	-	-	-	-	1,050	-	-	-	-	-	-	1,050	
1,009	693	969	-	1,594	-	-	-	-	-	-	-	-1,161	
-20	-	-	-	-	-79	-	-	-	-	-	-	-1,240	
-	-	-	-	-	-	-	-	-	-29	-	-	-2	
-64	-	-906	-	-485	-3,118	-	-	-	-	-3,725	-	-9,851	
284	1,089	25	-21	-5,474	-574	-	-	0	-	111	-	-4,576	
980	2,792	89	494	2,643	13,253	-	-	58	3,811	18,029	-	77,885	
566	542	-391	-1,955	2,533	8,268	-	-	-	2,572	8,076	-	29,400	
143	1,874	-	-	-	379	-	-	-	-	225	-	29,697	
3	376	-	-	-	3,836	-	-	58	1,240	9,727	-	18,019	
3	338	-	-	-	3,835	-	-	58	1,240	9,568	-	15,692	
-	38	-	-	-	2	-	-	-	-	160	-	2,327	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	271	-	494	2,638	658	-	-	-	-	-	-	4,066	

Energy Balance Table of Australia in 2005 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	35,226	1,366	-	139	5,167	-	-	268,024	
1,166	312	-	-	1,416	-	-	-	-	-	-	-	31,028	
-181	-	-	-	-185	-12,260	-	-	-	-	-	-	-178,933	
-780	-	-	-	-	-	-	-	-	-	-	-	-832	
5	-40	-	-	208	-	-	-	-	-	-	-	1,400	
210	272	-	-	1,439	22,966	1,366	-	139	5,167	-	-	120,687	
-	314	-	510	6,573	-	-	-	-	-	-	-	10,099	
717	612	1,118	-	1,238	-8,277	-1,366	-	-77	-1,135	21,113	-	-39,654	
-74	-	-	-	-	-4,991	-1,343	-	-77	-277	20,060	-	-34,926	
-230	-	-	-	-	-2,873	-24	-	-	-848	1,052	-	-3,050	
-	-	-	-	-	-282	-	-	-	-	-	-	-282	
1,042	612	1,118	-	1,238	-	-	-	-	-	-	-	214	
-20	-	-	-	-	-131	-	-	-	-	-	-	-1,610	
-	-	-	-	-	-	-	-	-	-11	-	-	-1	
-45	-	-1,053	-	-399	-2,923	-	-	-	-	-3,476	-	-9,225	
79	1,011	22	-31	-6,397	1,760	-0	-	-0	0	122	-	-3,871	
961	2,210	86	479	2,453	13,527	-	-	63	4,032	17,759	-	78,036	
518	463	-360	-1,632	2,351	8,549	-	-	-	2,585	7,939	-	28,969	
175	1,371	-	-	-	353	-	-	-	-	214	-	30,243	
3	376	-	-	-	3,928	-	-	63	1,447	9,606	-	18,128	
3	345	-	-	-	3,927	-	-	63	1,447	9,453	-	15,857	
-	32	-	-	-	2	-	-	-	-	152	-	2,271	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	268	-	479	2,449	770	-	-	-	-	-	-	3,990	

Major Energy Indicators of Australia

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	69,279	74,566	88,168	94,702	110,348	113,429	120,687	122,582
Indigenous Production	86,084	125,763	158,160	187,233	233,475	258,509	268,024	267,918
Import	13,902	8,843	14,196	20,634	26,259	28,096	31,028	33,149
Export	-32,208	-62,794	-78,871	-110,024	-153,528	-171,459	-178,933	-178,944
Final Energy Consumption	51,533	53,480	57,980	64,108	72,075	74,888	78,036	77,885
Industry	23,239	22,506	22,992	25,018	28,106	27,966	29,665	30,170
Transport	17,547	19,465	22,685	25,154	28,240	29,343	30,243	29,697
Residential & Commercial	8,494	9,198	10,972	12,456	14,101	15,421	15,857	15,692
Agriculture	1,075	1,245	1,319	1,472	1,629	2,157	2,271	2,327
Coal, Coal Products								
Primary Energy Supply	26,403	30,318	34,981	37,549	48,156	48,963	53,176	53,718
Indigenous Production	51,868	81,066	106,118	127,836	164,608	192,112	201,995	201,355
Import	-	-	-	-	-	-	-	-
Export	-28,645	-54,442	-67,262	-88,596	-121,454	-141,709	-150,341	-150,035
Transformation Sector	-19,165	-24,037	-30,398	-32,627	-43,637	-45,305	-49,354	-49,900
Power Generation	-19,184	-23,761	-28,773	-30,935	-42,200	-43,974	-47,896	-48,761
Final Energy Consumption	7,328	5,917	4,204	4,287	4,115	3,320	3,473	3,494
Industry	7,107	5,665	3,993	4,113	3,979	3,164	3,274	3,328
Transport	4	88	72	86	88	66	92	79
Residential & Commercial	217	163	139	88	47	91	107	87
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	29,632	27,150	32,952	35,168	36,523	31,446	30,379	29,727
Indigenous Production	19,906	25,990	29,027	28,365	33,911	27,644	24,130	23,080
Import	9,891	6,405	10,087	17,479	22,260	21,648	21,377	20,026
Export	-107	-4,885	-5,856	-10,372	-19,365	-18,630	-14,828	-12,550
Transformation Sector	-29,788	-28,759	-29,443	-33,318	-37,086	-35,652	-34,082	-33,161
Petroleum Refineries	-29,788	-28,759	-29,442	-33,317	-37,085	-35,652	-34,093	-33,188
Petroleum Products								
Primary Energy Supply	805	714	-431	-791	-22	3,116	7,492	9,060
Import	4,012	2,438	4,109	3,156	4,000	6,448	9,651	11,918
Export	-3,456	-3,467	-3,404	-2,800	-3,443	-2,271	-1,503	-1,748
Transformation Sector	29,314	28,362	31,215	35,616	37,856	34,998	33,525	31,147
Power Generation	-1,132	-916	-871	-723	-498	-830	-762	-860
Petroleum Refineries	30,525	29,327	32,102	36,363	38,376	35,850	34,307	32,027
Final Energy Consumption	27,930	26,717	30,515	33,420	37,223	37,492	39,182	39,240
Industry	7,003	4,603	6,307	6,803	7,535	5,905	6,622	7,156
Transport	17,466	19,273	22,448	24,709	27,647	28,742	29,583	29,014
Residential & Commercial	1,327	691	635	653	661	849	861	904
Agriculture	956	1,093	1,114	1,248	1,381	1,996	2,116	2,166
Natural Gas								
Primary Energy Supply	7,794	11,249	15,344	17,029	19,095	23,150	22,966	23,526
Indigenous Production	7,794	11,249	17,693	25,285	28,360	31,999	35,226	36,933
Import	-	-	-	-	-	-	-	1,204
Export	-	-	-2,350	-8,255	-9,265	-8,850	-12,260	-14,611
Transformation Sector	-1,622	-2,528	-4,092	-4,103	-4,428	-8,246	-8,277	-6,580
Power Generation	-1,642	-2,391	-3,471	-3,562	-4,061	-7,814	-7,864	-7,551
Final Energy Consumption	5,851	8,286	8,810	10,180	11,459	12,773	13,527	13,253
Industry	4,366	6,198	6,115	6,773	7,506	8,663	9,245	9,038
Transport	-	-	10	188	304	338	353	379
Residential & Commercial	1,485	2,079	2,684	3,218	3,648	3,770	3,927	3,835
Agriculture	-	-	1	1	1	2	2	2
Electricity								
Power Generation	8,261	10,403	13,337	14,909	17,867	20,171	21,113	21,643
Thermal	7,076	9,116	12,057	13,512	16,393	18,805	19,746	20,264
Hydro	1,185	1,287	1,280	1,397	1,474	1,366	1,366	1,378
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	6,966	8,713	11,112	12,460	14,857	17,094	17,759	18,029
Industry	2,948	3,928	5,090	5,599	6,624	7,685	7,939	8,076
Transport	77	103	155	171	201	197	214	225
Residential & Commercial	3,821	4,531	5,663	6,467	7,784	9,052	9,453	9,568
Agriculture	119	152	204	224	248	159	152	160

Major Economic Indicators of Australia

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	14.69	15.76	17.07	18.07	19.15	20.13	20.40	20.70
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	210.03	243.60	280.98	330.11	399.61	456.98	469.81	481.56
Real Term (Billions of 2000 Price and 2000 PPP)	275.87	319.96	369.05	433.59	524.87	600.22	617.08	632.51
Nominal (Billions of Current USD)	170.33	178.27	319.14	384.09	399.61	659.36	737.68	779.96
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	14,296	15,459	16,465	18,266	20,864	22,698	23,030	23,262
Real Term (2000 Price and 2000 PPP)	18,777	20,305	21,626	23,992	27,404	29,813	30,249	30,554
Nominal (Current USD)	11,593	11,313	18,701	21,253	20,864	32,751	36,161	37,676
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	149.59	255.26	408.84	518.14	689.26	896.57	965.97	1,035.76
Household Final Consumption Expenditure, etc.	85.70	147.29	239.47	306.71	409.90	520.98	547.14	N.A.
General Government Final Consumption Expenditure	27.13	50.11	75.58	95.01	125.18	162.84	176.24	N.A.
Gross Fixed Capital Formation	41.58	69.37	96.43	118.40	151.47	230.87	256.20	N.A.
Stock Change	0.45	0.87	-1.36	-0.04	0.86	4.50	1.51	N.A.
Exports of Goods and Services	22.61	38.94	66.25	99.47	156.16	167.56	196.12	N.A.
Imports of Goods and Services	25.53	47.20	66.95	101.41	154.32	190.19	210.49	N.A.
Real GDP & its Components (Billions of 2000 AUD) *1								
Gross Domestic Product	362.27	420.17	484.64	569.38	689.26	788.21	810.35	830.60
Household Final Consumption Expenditure, etc.	221.71	256.80	293.44	336.74	409.90	479.58	491.85	N.A.
General Government Final Consumption Expenditure	66.13	81.48	94.70	107.42	125.18	143.28	147.87	N.A.
Gross Fixed Capital Formation	83.45	96.14	102.65	125.23	151.47	217.90	236.45	N.A.
Stock Change	0.32	0.41	-0.43	0.03	0.86	1.70	0.72	N.A.
Exports of Goods and Services	40.09	53.21	76.34	113.17	156.16	162.10	165.47	N.A.
Imports of Goods and Services	46.49	58.61	76.70	109.43	154.32	224.45	240.05	N.A.
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.5	3.8	3.8	3.4	3.6	3.3	3.3	N.A.
Industry	28.5	26.9	27.1	25.6	23.8	23.4	23.2	N.A.
Services, etc.	58.4	59.9	60.1	61.7	63.7	64.2	64.6	N.A.
Industrial Production Index (2000=100) *2	59.0	67.8	80.0	84.3	100.0	103.5	104.6	104.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.944	22.604	39.752	53.111	63.870	86.752	106.229	123.269
Imports, c.i.f.	22.399	25.889	41.985	61.283	71.529	109.384	125.280	139.252
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.371	-0.968	0.358	-4.223	-4.862	-18.064	-13.372	-9.596
Current Account	-4.447	-9.172	-15.948	-19.277	-14.763	-38.854	-41.032	-41.504
Overall Balance	0.448	-2.301	1.740	0.396	-1.365	1.166	7.256	9.722
Foreign Exchange Rate (AUD/USD) *1	0.8782	1.4319	1.2811	1.3490	1.7248	1.3598	1.3095	1.3280
PPP conversion factor, GDP (AUD/International Dollar) *1	1.0043	1.1452	1.3575	1.2976	1.3132	1.3649	1.3884	1.4075
Price Indices								
GDP Deflator (2000=100) *3	41.3	60.8	84.4	91.0	100.0	113.7	119.2	124.7
Manufacturing Output Price Index (2000=100) *2	44.3	63.6	87.6	96.6	100.0	107.9	114.3	123.4
Consumer Price Index (2000=100) *2	36.8	54.9	80.4	90.9	100.0	113.1	116.1	120.2
Growth Rate (%) *3								
Real GDP	3.38	4.44	-0.64	4.12	1.95	2.68	2.81	2.50
Population	1.23	1.38	1.49	1.22	1.20	1.18	1.33	1.48
Price								
Manufacturing Output Price Index	14.0	6.6	6.0	4.2	7.1	4.0	6.0	7.9
Consumer Price Index	10.1	6.7	7.3	4.6	4.5	2.3	2.7	3.5

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

Note : N.A. shows "not available"
 : AUD shows Australian Dollar, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.2 Brunei Darussalam

Energy Balance Table of Brunei Darussalam in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	11,208	15	-	-	-	-	-
2 Import	-	-	-	13	-	-	-	-	-
3 Export	-	-	-10,536	-	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	77	-7	-2	-	1	-	-6
6 Total Primary Energy Supply	-	-	749	21	-2	-	1	-	-6
7 Transfers	-	-	-	-	-	-	-4	4	-
8 Total Transformation Sector	-	-	-735	631	222	-	81	-	185
8.1 Main Activity Producer	-	-	-	-	-	-	-	-	-
8.2 Autoproducers	-	-	-	-8	-	-	-	-	-8
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-735	639	222	-	81	-	193
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-155	-2	-	-0	-	-10
10. Discrepancy	-	-	-13	16	1	-	-0	0	16
11 Total Final Energy Consumption	-	-	-	514	220	-	78	4	185
12 Industry Sector	-	-	-	69	-	-	-	3	53
13 Transport Sector	-	-	-	430	220	-	78	-	131
14 Other Sector	-	-	-	15	-	-	-	1	0
14.1 Residential & Commercial	-	-	-	15	-	-	-	1	0
14.2 Agriculture	-	-	-	0	-	-	-	-	0
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	14	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Brunei Darussalam in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	10,487	-	-	-	-	-	-
2 Import	-	-	-	43	10	-	-	-	17
3 Export	-	-	-9,806	-	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	15	-4	-0	-	-1	-	-4
6 Total Primary Energy Supply	-	-	697	38	10	-	-1	-	13
7 Transfers	-	-	-	-	-	-	-3	3	-
8 Total Transformation Sector	-	-	-706	632	210	-	83	-	176
8.1 Main Activity Producer	-	-	-	-	-	-	-	-	-
8.2 Autoproducers	-	-	-	-8	-	-	-	-	-8
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-706	639	210	-	83	-	184
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-170	-1	-	-2	-	-22
10. Discrepancy	-	-	9	-0	0	-	0	0	-
11 Total Final Energy Consumption	-	-	-	499	219	-	77	3	167
12 Industry Sector	-	-	-	47	-	-	-	2	45
13 Transport Sector	-	-	-	418	219	-	77	-	122
14 Other Sector	-	-	-	34	-	-	-	1	1
14.1 Residential & Commercial	-	-	-	17	-	-	-	1	0
14.2 Agriculture	-	-	-	0	-	-	-	-	0
14.3 Other	-	-	-	17	-	-	-	-	-
15 Non-energy	-	-	-	17	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Brunei Darussalam in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	15	-	-	-	11,816	-	-	-	-	-	-	23,038	
-	-	-	-	13	-	-	-	-	-	-	-	13	
-	-	-	-	-	-8,537	-	-	-	-	-	-	-19,073	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	0	-	-	0	-10	-	-	-	-	-	-	60	
-	15	-	-	13	3,269	-	-	-	-	-	-	4,039	
-	-	-	-	-	-	-	-	-	-	-	-	-	
102	-	40	-	-	-2,002	-	-	-	-	284	-	-1,823	
-	-	-	-	-	-1,040	-	-	-	-	254	-	-786	
-	-	-	-	-	-883	-	-	-	-	30	-	-861	
-	-	-	-	-	-80	-	-	-	-	-	-	-80	
102	-	40	-	-	-	-	-	-	-	-	-	-96	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-102	-	-40	-	-	-571	-	-	-	-	-26	-	-751	
-	-1	-	-	0	-682	-	-	-	-	0	-	-679	
-	14	-	-	14	13	-	-	-	-	258	-	785	
-	-	-	-	13	-	-	-	-	-	48	-	117	
-	-	-	-	1	-	-	-	-	-	-	-	430	
-	14	-	-17	-	13	-	-	-	-	210	-	238	
-	14	-	-	-	13	-	-	-	-	-	-	28	
-	-	-	-	-	-	-	-	-	-	-	-	0	
-	-	-	-17	-	-	-	-	-	-	210	-	210	
-	-	-	-	14	-	-	-	-	-	-	-	14	

Energy Balance Table of Brunei Darussalam in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	11,143	-	-	-	-	-	-	21,630	
-	-	-	-	16	-	-	-	-	-	-	-	43	
-	-	-	-	-	-9,556	-	-	-	-	-	-	-19,362	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-0	-	-	0	-	-	-	-	-	-	-	11	
-	-0	-	-	17	1,587	-	-	-	-	-	-	2,322	
-	-	-	-	-	-	-	-	-	-	-	-	-	
88	17	57	-	-	-1,078	-	-	-	-	281	-	-872	
-	-	-	-	-	-970	-	-	-	-	251	-	-719	
-	-	-	-	-	-108	-	-	-	-	30	-	-86	
-	-	-	-	-	-	-	-	-	-	-	-	-	
88	17	57	-	-	-	-	-	-	-	-	-	-66	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-88	-	-57	-	-	-496	-	-	-	-	-17	-	-683	
-	-1	-	-	0	-0	-	-	-	-	-	-	9	
-	16	-	-	17	13	-	-	-	-	264	-	776	
-	-	-	-	-	-	-	-	-	-	49	-	96	
-	-	-	-	-	-	-	-	-	-	-	-	418	
-	16	-	-17	17	13	-	-	-	-	215	-	263	
-	16	-	-	-	13	-	-	-	-	215	-	246	
-	-	-	-	-	-	-	-	-	-	-	-	0	
-	-	-	-17	17	-	-	-	-	-	-	-	17	
-	-	-	-	17	-	-	-	-	-	-	-	17	

Major Energy Indicators of Brunei Darussalam

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	3,245	1,880	2,071	2,712	2,701	2,292	2,322	4,039
Indigenous Production	20,664	14,693	15,259	17,395	17,411	22,142	21,630	23,038
Import	215	40	80	36	22	14	43	13
Export	-17,589	-12,512	-12,977	-14,678	-14,845	-19,827	-19,362	-19,073
Final Energy Consumption	241	401	417	632	636	759	776	785
Industry	39	43	53	109	91	93	96	117
Transport	165	246	255	330	324	409	418	430
Residential & Commercial	37	113	108	150	198	134	246	28
Agriculture	-	-	-	-	0	0	0	0
Coal, Coal Products								
Primary Energy Supply	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	167	50	38	534	566	707	697	749
Indigenous Production	12,121	7,499	7,677	8,465	9,006	10,741	10,487	11,208
Import	-	-	76	-	-	-	-	-
Export	-11,919	-7,108	-7,424	-7,900	-8,541	-9,999	-9,806	-10,536
Transformation Sector	-	-223	65	-534	-573	-715	-706	-735
Petroleum Refineries	-	-223	-321	-534	-573	-715	-706	-735
Petroleum Products								
Primary Energy Supply	215	34	0	40	22	11	38	21
Import	215	40	4	36	22	14	43	13
Export	-	-6	-3	-0	-1	-2	-	-
Transformation Sector	-	220	314	540	573	632	632	631
Power Generation	-	-1	-3	-4	-5	-7	-8	-8
Petroleum Refineries	-	188	290	533	566	639	639	639
Final Energy Consumption	215	314	309	451	401	482	499	514
Industry	31	27	17	65	40	39	47	69
Transport	165	246	255	330	324	409	418	430
Residential & Commercial	19	42	37	13	14	16	17	15
Agriculture	-	-	-	-	0	0	0	0
Natural Gas								
Primary Energy Supply	2,863	1,796	2,033	2,138	2,113	1,574	1,587	3,269
Indigenous Production	8,543	7,194	7,583	8,931	8,405	11,401	11,143	11,816
Import	-	-	-	-	-	-	-	-
Export	-5,670	-5,398	-5,549	-6,778	-6,302	-9,826	-9,556	-8,537
Transformation Sector	-1,726	-1,848	-1,226	-1,886	-1,378	-1,110	-1,078	-2,002
Power Generation	-733	-955	-517	-1,312	-1,378	-1,110	-1,078	-1,923
Final Energy Consumption	-	36	25	33	22	14	13	13
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	36	25	33	22	14	13	13
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	33	61	101	188	244	278	281	284
Thermal	33	61	101	188	244	278	281	284
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	26	51	82	149	213	262	264	258
Industry	8	16	36	44	51	54	49	48
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	18	35	46	104	161	104	215	-
Agriculture	-	-	-	-	-	-	-	-

Major Economic Indicators of Brunei Darussalam

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	0.19	0.22	0.26	0.29	0.33	0.37	0.37	0.38
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	5.77	4.79	4.81	5.62	6.00	6.62	6.65	6.99
Real Term (Billions of 2000 Price and 2000 PPP)	5.77	4.79	4.81	5.62	6.00	6.62	6.65	6.99
Nominal (Billions of Current USD)	4.93	3.52	3.52	4.73	6.00	7.87	9.53	11.56
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	29,916	21,495	18,714	19,043	17,997	18,113	17,788	18,305
Real Term (2000 Price and 2000 PPP)	29,916	21,495	18,714	19,043	17,997	18,113	17,788	18,305
Nominal (Current USD)	25,534	15,800	13,698	16,049	17,997	21,527	25,497	30,269
Nominal GDP & its Components (Billions of Current BND) *1								
Gross Domestic Product	10.55	7.75	6.38	6.71	10.35	13.31	15.86	18.37
Household Final Consumption Expenditure, etc.	0.74	N.A.	1.69	2.46	2.57	3.53	3.56	3.61
General Government Final Consumption Expenditure	0.88	N.A.	1.40	1.80	2.67	2.93	2.92	3.29
Gross Fixed Capital Formation	N.A.	N.A.	1.19	2.46	1.34	1.79	1.80	1.91
Stock Change	N.A.	N.A.	0.00	0.00	0.01	0.01	0.00	-0.01
Exports of Goods and Services	9.85	N.A.	3.94	4.01	6.97	9.15	11.13	13.07
Imports of Goods and Services	1.23	N.A.	2.38	3.75	3.71	4.23	4.33	4.60
Real GDP & its Components (Billions of 2000 BND) *1								
Gross Domestic Product	9.96	8.26	8.29	9.68	10.35	11.42	11.46	12.05
Household Final Consumption Expenditure, etc.	N.A.	N.A.	2.02	2.51	2.57	3.51	3.49	3.62
General Government Final Consumption Expenditure	N.A.	N.A.	2.11	2.45	2.67	2.90	2.87	3.24
Gross Fixed Capital Formation	N.A.	N.A.	1.55	2.35	1.34	1.70	1.72	1.16
Stock Change	N.A.	N.A.	N.A.	N.A.	0.01	0.01	0.00	0.00
Exports of Goods and Services	N.A.	N.A.	4.91	6.62	6.97	7.58	7.49	7.76
Imports of Goods and Services	N.A.	N.A.	2.98	4.69	3.71	4.13	4.25	4.43
Sectional Shares of Real GDP (%) *1								
Agriculture, Fishery and Forest	N.A.	N.A.	0.8	0.8	1.0	1.3	1.3	1.1
Industry	N.A.	N.A.	63.3	65.0	63.7	62.6	61.2	60.6
Services, etc.	N.A.	N.A.	35.9	34.2	35.3	36.2	37.5	38.3
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.	4.581	2.972	2.213	2.402	3.903	5.057	6.249	7.700
Imports, c.i.f.	0.572	0.615	1.001	2.091	1.107	1.422	1.491	1.730
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	N.A.	N.A.	N.A.	3.728	4.834	6.041
Current Account	N.A.	N.A.	N.A.	N.A.	N.A.	2.896	4.038	5.232
Overall Balance	N.A.	N.A.	N.A.	N.A.	N.A.	0.028	-0.009	0.030
Foreign Exchange Rate (BND/USD) *1	2.1412	2.2001	1.8125	1.4174	1.7240	1.6902	1.6644	1.5889
Purchasing Power Parity (BND/International Dollar) *1	1.4446	0.9908	0.6939	0.5536	1.7240	0.7834	0.9031	0.9639
Price Indices								
GDP Deflator (2000=100) *4	106.0	93.8	77.0	69.3	100.0	116.5	138.4	152.4
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 (2000=100) *2	61.5	76.2	82.2	95.7	100.0	99.4	100.6	100.7
Growth Rate (%) *4								
Real GDP	-7.00	-1.49	1.09	4.48	2.85	0.50	0.39	5.14
Population	3.35	2.84	2.87	2.68	2.40	2.28	2.22	2.17
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.	2.4	2.1	6.0	1.6	0.8	1.2	0.1

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

Note : N.A. shows "not available"

: BND shows Brunei Dollar, USD shows United States Dollar

: PPP shows Purchasing Power Parity

3.3 Canada

Energy Balance Table of Canada in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	32,536	-	155,929	-	-	-	-	-	-
2 Import	11,219	65	42,763	14,368	4,948	41	2,570	133	992
3 Export	-16,445	-64	-95,274	-20,948	-6,341	-311	-575	-106	-7,072
4 International Marine Bunkers	-	-	-	-536	-	-	-	-	-80
5 Stock Changes	191	30	173	-648	2	46	58	62	-86
6 Total Primary Energy Supply	27,501	31	103,591	-7,764	-1,391	-224	2,052	89	-6,246
7 Transfers	-	-	-1,637	19,294	34	904	-282	-1,450	1,956
8 Total Transformation Sector	-25,717	1,133	-97,913	102,116	33,337	3,969	4,121	1,649	31,640
8.1 Main Activity Producer	-22,790	-	-	-1,983	-	-	-	-	-139
8.2 Autoproducers	-1	-59	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-98,035	104,099	33,337	3,969	4,121	1,649	31,779
8.5 Coal Transformation	-2,926	1,192	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	122	-	-	-	-	-	-
9. Loss & Own Use	-15	-	-	-9,427	-1	-3	-	-	-21
10. Discrepancy	-233	250	-4,042	-10,905	496	-940	-118	6	-426
11 Total Final Energy Consumption	1,537	1,414	-	93,315	32,476	3,707	5,772	294	26,903
12 Industry Sector	1,498	1,414	-	25,653	-	3,707	-	34	3,425
13 Transport Sector	-	-	-	52,487	32,476	-	5,772	-	12,988
14 Other Sector	39	-	-	15,174	-	-	-	259	10,490
14.1 Residential & Commercial	39	-	-	12,781	-	-	-	256	8,333
14.2 Agriculture	-	-	-	2,393	-	-	-	3	2,157
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	325	10	-	20,340	-	3,707	-	-	-

Energy Balance Table of Canada in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	33,086	-	148,009	-	-	-	-	-	-
2 Import	11,704	58	46,636	13,989	3,910	-	2,328	29	1,056
3 Export	-16,753	-101	-85,862	-21,914	-7,355	-350	-702	-113	-6,820
4 International Marine Bunkers	-	-	-	-589	-	-	-	-	-80
5 Stock Changes	1,960	80	-2,375	46	12	38	-0	-75	-105
6 Total Primary Energy Supply	29,997	37	106,407	-8,469	-3,434	-313	1,626	-159	-5,948
7 Transfers	-	-	-3,084	17,326	660	925	-356	-1,213	1,928
8 Total Transformation Sector	-26,795	1,181	-99,070	102,379	34,895	3,421	4,647	1,698	31,683
8.1 Main Activity Producer	-23,892	-	-	-3,181	-	-	-	-	-138
8.2 Autoproducers	-1	-88	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-99,230	105,560	34,895	3,421	4,647	1,698	31,821
8.5 Coal Transformation	-2,902	1,269	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	160	-	-	-	-	-	-
9. Loss & Own Use	-44	-	-	-9,606	-1	-1	-	-	-18
10. Discrepancy	-1,562	252	-4,253	-7,330	65	-958	-62	2	-394
11 Total Final Energy Consumption	1,596	1,470	-	94,300	32,186	3,073	5,855	328	27,252
12 Industry Sector	1,561	1,470	-	25,980	-	3,073	-	72	3,477
13 Transport Sector	-	-	-	52,382	32,186	-	5,855	-	12,949
14 Other Sector	35	-	-	15,939	-	-	-	256	10,826
14.1 Residential & Commercial	35	-	-	13,609	-	-	-	251	8,753
14.2 Agriculture	-	-	-	2,329	-	-	-	5	2,073
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	384	12	-	19,820	-	3,073	-	-	-

Energy Balance Table of Canada in 2006 (Continued)

unit: ktoe												
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	154,909	30,574	25,529	217	12,725	-	-	412,419
1,430	-	-	-	4,255	7,939	-	-	-	26	2,032	-	78,412
-3,397	-330	-	-	-2,817	-83,973	-	-	-	-13	-3,675	-	-220,392
-456	-	-	-	-	-	-	-	-	-	-	-	-536
-56	42	-	-	-715	617	-	-	-	-	-	-	363
-2,479	-288	-	-	723	79,492	30,574	25,529	217	12,738	-1,644	-	270,266
849	2,804	-	5,948	8,532	-	-	-	-	-	-	-	17,658
6,213	1,955	6,439	-	12,794	-9,008	-30,574	-25,529	-217	-2,236	52,683	832	-34,429
-1,239	-	-	-	-605	-5,439	-27,700	-25,529	-217	-9	48,208	832	-34,626
-	-	-	-	-	-1,769	-2,874	-	-	-2,098	4,475	-	-2,326
-	-	-	-	-	-1,169	-	-	-	-	-	-	-1,169
7,452	1,955	6,439	-	13,398	-	-	-	-	-	-	-	6,064
-	-	-	-	-	-	-	-	-	-	-	-	-1,734
-	-	-	-	-	-631	-	-	-	-130	-	-	-639
-572	-17	-6,439	-	-2,374	-14,894	-	-	-	-	-8,500	-	-32,836
1,306	11	-	-	-11,240	-4,908	-	-	-	-0	373	-	-19,465
5,316	4,465	-	5,948	8,434	50,682	-	-	-	10,502	42,912	832	201,194
913	3,149	-5,883	435	5,855	19,374	-	-	-	8,476	17,550	769	74,735
792	258	-	-194	202	4,100	-	-	-	-	390	-	56,977
990	1,058	-	-2,535	2,328	23,814	-	-	-	2,026	24,972	63	66,088
943	904	-	-	2,345	23,373	-	-	-	2,026	24,141	62	62,421
47	154	-	-	33	441	-	-	-	-	831	1	3,667
-	-	-	-2,535	-50	-	-	-	-	-	-	-	-
-	2,321	-	5,948	8,364	3,383	-	-	-	-	-	-	24,059

Energy Balance Table of Canada in 2005 (Continued)

unit: ktoe												
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	154,077	31,281	23,986	128	12,140	-	-	402,707
2,507	-	-	-	4,159	7,833	-	-	-	51	1,692	-	81,962
-3,356	-325	-	-	-2,893	-87,402	-	-	-	-9	-3,743	-	-215,785
-510	-	-	-	-	-	-	-	-	-	-	-	-589
81	-42	-	-	137	6,116	-	-	-	-	-	-	5,827
-1,279	-367	-	-	1,404	80,624	31,281	23,986	128	12,181	-2,051	-	274,121
948	2,883	-	5,883	5,669	-	-	-	-	-	-	-	14,242
5,531	2,010	6,293	-	12,202	-9,249	-31,281	-23,986	-128	-2,273	53,834	933	-34,455
-2,402	-	-	-	-642	-6,115	-28,576	-23,986	-128	-9	49,639	933	-35,315
-	-	-	-	-	-1,397	-2,705	-	-	-2,094	4,195	-	-2,091
-	-	-	-	-	-1,170	-	-	-	-	-	-	-1,170
7,932	2,010	6,293	-	12,843	-	-	-	-	-	-	-	6,330
-	-	-	-	-	-	-	-	-	-	-	-	-1,633
-	-	-	-	-	-567	-	-	-	-170	-	-	-578
-680	-32	-6,293	-	-2,582	-14,830	-	-	-	-	-8,068	-0	-32,549
2,226	202	-	-	-8,412	-4,918	-0	-	-	0	323	1	-17,487
6,746	4,696	-	5,883	8,281	51,626	-	-	-	9,908	44,038	933	203,872
2,295	3,448	-6,051	582	5,552	18,605	-	-	-	7,883	18,197	868	74,564
970	228	-	-198	194	4,299	-	-	-	-	366	-	57,047
1,301	1,020	-	-2,383	2,467	25,177	-	-	-	2,026	25,474	65	68,717
1,238	864	-	-	2,503	24,752	-	-	-	2,026	24,593	64	65,079
62	156	-	-	33	425	-	-	-	-	881	1	3,637
-	-	-	-2,383	-68	-	-	-	-	-	-	-	-
-	2,622	-	5,883	8,242	3,394	-	-	-	-	-	-	23,610

Major Energy Indicators of Canada

ktoe

	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	194,245	193,954	209,418	232,580	253,207	269,411	274,121	270,266
Indigenous Production	207,701	240,481	273,750	349,842	373,735	398,071	402,707	412,419
Import	41,540	29,044	46,386	45,245	72,039	81,457	81,962	78,412
Export	-52,494	-79,607	-105,777	-164,982	-199,759	-216,092	-215,785	-220,392
Final Energy Consumption	156,724	153,478	159,981	174,574	190,318	202,081	203,872	201,194
Industry	61,067	61,887	60,903	66,443	72,596	77,517	78,109	78,129
Transport	45,020	39,861	44,439	48,947	53,662	55,944	57,047	56,977
Residential & Commercial	48,190	48,844	51,329	55,248	59,779	64,955	65,079	62,421
Agriculture	2,431	2,866	3,310	3,936	4,281	3,666	3,637	3,667
Coal, Coal Products								
Primary Energy Supply	21,293	26,930	24,276	25,318	31,661	28,544	30,034	27,533
Indigenous Production	20,204	33,742	37,927	40,846	34,407	32,180	33,086	32,536
Import	10,808	10,141	9,547	6,942	15,048	11,072	11,761	11,285
Export	-10,203	-18,217	-21,442	-23,589	-19,269	-15,483	-16,854	-16,509
Transformation Sector	-16,316	-21,021	-21,399	-22,420	-28,646	-25,445	-25,614	-24,584
Power Generation	-14,797	-19,781	-19,972	-20,791	-26,967	-23,773	-23,981	-22,849
Final Energy Consumption	5,657	5,350	2,924	2,664	2,939	2,999	3,066	2,951
Industry	5,554	5,243	2,872	2,609	2,902	2,974	3,031	2,912
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	103	107	51	55	37	25	35	39
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	97,222	73,335	83,136	84,620	96,845	109,221	106,407	103,591
Indigenous Production	85,309	86,990	94,485	113,875	128,868	149,855	148,009	155,929
Import	28,162	14,362	27,133	30,483	46,941	47,168	46,636	42,763
Export	-15,229	-28,382	-37,810	-60,516	-78,445	-89,126	-85,862	-95,274
Transformation Sector	-96,888	-73,426	-85,816	-82,926	-94,871	-104,045	-99,070	-97,913
Petroleum Refineries	-96,888	-73,426	-85,816	-82,926	-94,996	-104,179	-99,230	-98,035
Petroleum Products								
Primary Energy Supply	-6,363	-2,255	-5,466	-5,631	-7,900	-10,705	-8,469	-7,764
Import	2,314	4,271	7,656	6,629	7,350	12,270	13,989	14,368
Export	-6,408	-7,946	-11,921	-12,414	-14,970	-22,119	-21,914	-20,948
Transformation Sector	92,316	71,272	83,431	84,200	94,056	104,300	102,379	102,116
Power Generation	-2,998	-1,536	-3,533	-2,270	-2,854	-4,386	-3,181	-1,983
Petroleum Refineries	95,314	72,807	86,963	86,470	96,910	108,686	105,560	104,099
Final Energy Consumption	81,315	65,494	69,862	73,447	82,178	91,856	94,300	93,315
Industry	20,046	15,659	17,031	17,935	20,281	24,057	25,980	25,653
Transport	43,191	37,695	41,261	43,557	48,515	51,972	52,382	52,487
Residential & Commercial	16,583	10,416	9,500	9,321	10,514	13,493	13,609	12,781
Agriculture	1,478	1,705	2,069	2,634	2,868	2,334	2,329	2,393
Natural Gas								
Primary Energy Supply	45,889	49,902	54,743	67,110	74,259	78,025	80,624	79,492
Indigenous Production	63,643	70,240	88,579	130,252	148,361	150,832	154,077	154,909
Import	2	5	521	551	1,329	8,920	7,833	7,939
Export	-18,057	-21,329	-33,045	-64,727	-82,681	-86,459	-87,402	-83,973
Transformation Sector	-1,806	-1,201	-2,447	-5,752	-8,812	-9,137	-9,249	-9,008
Power Generation	-1,806	-1,201	-1,868	-4,325	-7,356	-7,391	-7,512	-7,208
Final Energy Consumption	35,108	41,674	43,314	50,762	53,426	52,578	51,626	50,682
Industry	17,137	19,284	20,238	22,468	23,405	23,469	22,150	22,768
Transport	1,634	1,935	2,897	5,057	4,758	3,605	4,299	4,100
Residential & Commercial	16,058	20,056	19,681	22,744	24,677	25,048	24,752	23,373
Agriculture	279	399	498	493	586	457	425	441
Electricity								
Power Generation	32,245	39,245	41,457	48,158	52,079	51,586	53,834	52,683
Thermal	1,127	-1,796	-3,113	-6,243	2,267	-1,290	-1,433	-3,420
Hydro	21,769	26,163	25,529	28,899	30,841	29,321	31,281	30,574
Nuclear	9,348	14,878	19,041	25,502	18,971	23,555	23,986	25,529
Final Energy Consumption	26,440	31,915	35,952	38,413	41,409	43,581	44,038	42,912
Industry	12,035	14,718	14,443	15,891	17,485	17,808	18,197	17,550
Transport	196	232	281	333	389	367	366	390
Residential & Commercial	13,535	16,203	20,484	21,381	22,710	24,532	24,593	24,141
Agriculture	674	762	743	808	826	874	881	831

Major Economic Indicators of Canada

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	24.59	25.94	27.79	29.35	30.77	31.99	32.31	32.65
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	411.94	471.72	543.65	592.05	724.91	798.93	822.39	845.41
Real Term (Billions of 2000 Price and 2000 PPP)	502.02	574.87	662.52	721.51	883.42	973.63	1,002.21	1,030.27
Nominal (Billions of Current USD)	268.89	355.71	582.74	590.50	724.91	992.14	1,131.76	1,271.63
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	16,750	18,184	19,562	20,169	23,559	24,975	25,451	25,894
Real Term (2000 Price and 2000 PPP)	20,413	22,160	23,839	24,580	28,711	30,436	31,017	31,556
Nominal (Current USD)	10,934	13,712	20,968	20,117	23,559	31,015	35,026	38,949
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	314.39	485.71	679.92	810.43	1,076.58	1,290.79	1,371.42	1,442.49
Household Final Consumption Expenditure, etc.	168.48	266.68	385.41	460.91	596.01	719.87	760.38	N.A.
General Government Final Consumption Expenditure	67.08	106.07	151.42	172.46	200.08	249.78	264.24	N.A.
Gross Fixed Capital Formation	72.94	98.09	144.86	143.00	206.27	261.34	284.05	N.A.
Stock Change	-0.68	3.48	-2.68	9.03	11.53	6.24	11.19	N.A.
Exports of Goods and Services	88.29	137.38	175.51	302.48	490.69	494.58	519.68	N.A.
Imports of Goods and Services	82.46	126.08	174.62	276.62	428.75	440.96	467.67	N.A.
Real GDP & its Components (Billions of 2000 CAD) *1								
Gross Domestic Product	611.78	700.56	807.37	879.27	1,076.58	1,186.50	1,221.34	1,255.53
Household Final Consumption Expenditure, etc.	358.51	396.85	467.96	500.52	596.01	671.90	697.93	N.A.
General Government Final Consumption Expenditure	144.71	160.73	184.41	188.25	200.08	227.21	233.43	N.A.
Gross Fixed Capital Formation	116.93	122.60	157.24	149.11	206.27	250.49	268.29	N.A.
Stock Change	2.64	-0.50	-3.98	7.68	11.53	8.42	13.37	N.A.
Exports of Goods and Services	135.50	178.43	220.56	326.07	490.69	494.61	505.09	N.A.
Imports of Goods and Services	133.44	160.08	221.57	291.54	428.75	467.54	500.96	N.A.
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	2.6	2.6	2.4	2.1	1.9	1.9	N.A.
Industry	N.A.	32.3	30.7	30.1	30.8	29.0	28.8	N.A.
Services, etc.	N.A.	58.7	59.4	60.6	59.9	61.4	61.5	N.A.
Industrial Production Index (2000=100) *2	N.A.	N.A.	N.A.	78.6	100.0	99.6	101.3	100.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	67.734	90.950	127.629	192.197	276.635	316.548	359.399	389.538
Imports, c.i.f.	62.544	80.640	123.244	168.426	244.786	279.912	321.363	357.652
Balance of Payments (Billions of Current USD) *2								
Trade Balance	7.939	11.867	9.513	25.855	45.047	50.434	52.679	45.146
Current Account	-6.088	-5.734	-19.764	-4.328	19.622	22.321	23.408	20.797
Overall Balance	-0.536	-3.270	1.139	2.711	3.720	-2.836	1.335	0.826
Foreign Exchange Rate (CAD/USD) *1	1.1692	1.3655	1.1668	1.3724	1.4851	1.3010	1.2118	1.1344
Purchasing Power Parity (CAD/International Dollar) *1	1.1598	1.2128	1.2576	1.2197	1.2186	1.2114	1.2136	1.2034
Price Indices								
GDP Deflator (2000=100) *3	51.4	69.3	84.2	92.2	100.0	108.8	112.3	114.9
Industry Selling Price Index (2000=100) *2	54.7	71.5	79.1	92.8	100.0	102.8	104.4	106.8
Consumer Price Index (2000=100) *2	46.2	66.0	82.1	91.8	100.0	109.7	112.2	114.4
Growth Rate (%) *3								
Real GDP	2.16	4.78	0.19	2.81	5.23	3.30	2.94	2.80
Population	1.30	0.93	1.50	0.83	0.89	1.13	1.01	1.04
Price								
Industry Selling Price Index	13.4	2.7	0.3	7.4	4.3	3.2	1.5	2.4
Consumer Price Index	10.2	4.0	4.8	2.2	2.7	1.9	2.2	2.0

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

Note : N.A. shows "not available"
 : CAD shows Canadian Dollar, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.4 Chile

Energy Balance Table of Chile in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	277	-	154	-	-	-	-	-	-
2 Import	3,168	-	11,483	4,291	606	-	103	-	2,480
3 Export	-	-6	-	-2,130	-822	-60	-	-	-389
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-2	4	-500	-776	-238	1	-106	15	-507
6 Total Primary Energy Supply	3,443	-2	11,137	1,386	-454	-59	-3	15	1,584
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-2,994	490	-11,683	11,105	2,788	250	732	64	3,918
8.1 Main Activity Producer	-2,483	-	-	-613	-	-	-	-	-116
8.2 Autoproducers	-8	-	-	-112	-	-	-	-	-17
8.3 Gas Processing	-	-	-	-3	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-11,683	11,832	2,788	250	732	64	4,051
8.5 Coal Transformation	-504	490	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-0	-72	-	-538	-	-190	-	-0	-1
10. Discrepancy	-0	0	546	-0	-0	0	-0	-	-0
11 Total Final Energy Consumption	448	417	-	11,952	2,333	0	729	79	5,502
12 Industry Sector	434	417	-	2,619	-	0	-	26	1,833
13 Transport Sector	0	-	-	8,088	2,333	0	729	1	3,535
14 Other Sector	15	-	-	1,245	-	0	-	51	134
14.1 Residential & Commercial	5	-	-	1,170	-	-	-	51	105
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	10	-	-	75	-	0	-	-	29
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Chile in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	354	-	175	-	-	-	-	-	-
2 Import	2,651	-	11,097	3,935	655	-	93	-	1,894
3 Export	-	-28	-	-1,836	-724	-133	-	-	-218
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-79	49	27	-461	-101	3	-45	6	-91
6 Total Primary Energy Supply	2,926	21	11,299	1,639	-171	-130	47	6	1,585
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-2,471	432	-11,037	10,249	2,534	264	637	98	3,604
8.1 Main Activity Producer	-1,957	-	-	-820	-	-	-	-	-229
8.2 Autoproducers	-8	-	-	-117	-	-	-	-	-19
8.3 Gas Processing	-	-21	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-11,037	11,186	2,534	264	637	98	3,852
8.5 Coal Transformation	-506	453	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-0	-	-	-452	-	-131	-	-0	-2
10. Discrepancy	-0	-4	-263	-0	-	-0	-	-	-0
11 Total Final Energy Consumption	455	449	-	11,436	2,364	3	684	104	5,187
12 Industry Sector	439	449	-	2,061	-	1	-	25	1,464
13 Transport Sector	0	-	-	8,096	2,364	-	684	15	3,581
14 Other Sector	16	-	-	1,279	-	1	-	64	143
14.1 Residential & Commercial	4	-	-	1,173	-	1	-	64	109
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	13	-	-	105	-	-	-	-	33
15 Non-energy	-	213	-	-	-	-	-	-	-

Energy Balance Table of Chile in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	2,054	2,475	-	1	4,730	-	-	9,691	
17	877	-	-	209	5,365	-	-	-	-	196	-	24,504	
-708	-152	-	-	-	-	-	-	-	-	-	-	-2,136	
-	-	-	-	-	-	-	-	-	-	-	-	-	
152	-170	-0	-	78	-349	-	-	-	-	-	-	-1,622	
-539	555	-0	-	287	7,071	2,475	-	1	4,730	196	-	30,436	
-	-	-	-	-	-	-	-	-	-	-	-	-	
2,671	637	308	-	-263	-5,375	-2,475	-	-1	-504	4,757	-	-6,680	
-31	-	-	-	-466	-2,131	-2,429	-	-1	-17	4,447	-	-3,226	
-76	-	-18	-	-	-124	-46	-	-	-487	311	-	-467	
-	-3	-	-	-	-2,907	-	-	-	-	-	-	-2,910	
2,778	641	326	-	203	-	-	-	-	-	-	-	149	
-	-	-	-	-	-	-	-	-	-	-	-	-13	
-	-	-	-	-	-213	-	-	-	-	-	-	-213	
-35	-5	-307	-	-	-478	-	-	-	-	-599	-	-1,686	
0	0	-0	-	0	103	-	-	-	-0	-0	-	649	
2,097	1,188	-	-	24	1,321	-	-	-	4,226	4,355	-	22,720	
554	182	-	-	24	732	-	-	-	1,305	2,936	-	8,442	
1,487	3	-	-	-	36	-	-	-	-	28	-	8,152	
56	1,004	-	-	-	553	-	-	-	2,921	1,392	-	6,126	
12	1,001	-	-	-	529	-	-	-	2,921	1,376	-	6,001	
-	-	-	-	-	-	-	-	-	-	-	-	-	
44	2	-	-	-	24	-	-	-	-	16	-	125	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Energy Balance Table of Chile in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	1,929	2,254	-	-	4,599	-	-	9,310	
127	739	-	-	429	5,280	-	-	-	-	185	-	23,149	
-621	-140	-	-	-	-	-	-	-	-	-	-	-1,864	
-	-	-	-	-	-	-	-	-	-	-	-	-	
76	-158	-	-	-151	-160	-	-	-	-	-	-	-624	
-418	441	-	-	278	7,048	2,254	-	-	4,599	185	-	29,971	
-	-	-	-	-	-	-	-	-	-	-	-	-	
2,297	751	287	-	-224	-4,957	-2,254	-	-	-571	4,514	-	-6,096	
-48	-	-	-	-543	-2,335	-2,206	-	-	-20	4,209	-	-3,129	
-76	-1	-21	-	-	-377	-48	-	-	-551	305	-	-796	
-	-	-	-	-	-2,245	-	-	-	-	-	-	-2,266	
2,421	751	308	-	319	-	-	-	-	-	-	-	149	
-	-	-	-	-	-	-	-	-	-	-	-	-53	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-27	-5	-287	-	-	-748	-	-	-	-	-544	-	-1,745	
-0	0	-0	-	-0	-66	-	-	-	-0	-	-	-333	
1,852	1,187	0	-	55	1,277	-	-	-	4,028	4,154	-	21,798	
344	172	0	-	55	758	-	-	-	1,121	2,800	-	7,628	
1,451	1	-	-	-	31	-	-	-	-	22	-	8,149	
57	1,015	-	-	-	488	-	-	-	2,907	1,332	-	6,022	
5	994	-	-	-	442	-	-	-	2,907	1,322	-	5,847	
-	-	-	-	-	-	-	-	-	-	-	-	-	
51	21	-	-	-	46	-	-	-	-	11	-	175	
-	-	-	-	-	2,264	-	-	-	-	-	-	2,478	

Major Energy Indicators of Chile

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	10,971	9,782	14,260	18,001	25,569	29,284	29,971	30,436
Indigenous Production	7,043	7,157	7,763	7,998	10,729	8,730	9,310	9,691
Import	4,125	2,792	7,117	10,790	18,688	22,931	23,149	24,504
Export	-	-	-158	-57	-2,483	-1,580	-1,864	-2,136
Final Energy Consumption	8,271	8,579	11,022	15,019	19,634	21,642	21,798	22,720
Industry	2,758	2,809	3,203	4,615	5,776	8,294	7,628	8,442
Transport	2,303	2,264	3,411	5,128	6,634	7,318	8,149	8,152
Residential & Commercial	2,427	2,643	3,430	4,125	5,320	5,694	5,847	6,001
Agriculture	626	696	796	880	1,398	11	-	-
Coal, Coal Products								
Primary Energy Supply	1,393	1,217	2,597	2,209	3,099	3,675	2,947	3,441
Indigenous Production	743	939	1,451	690	243	451	354	277
Import	650	278	1,145	1,519	2,975	3,151	2,651	3,168
Export	-	-	-	-	-	-26	-28	-6
Transformation Sector	-600	-592	-1,776	-1,577	-2,133	-2,976	-2,039	-2,504
Power Generation	-439	-473	-1,649	-1,401	-2,082	-2,528	-1,965	-2,491
Final Energy Consumption	498	639	734	789	791	910	903	865
Industry	479	623	674	748	660	873	887	850
Transport	-	-	-	-	-	-	0	0
Residential & Commercial	17	12	18	7	3	25	4	5
Agriculture	-	-	41	33	128	-	-	-
Crude Oil								
Primary Energy Supply	4,919	3,786	6,307	8,035	10,001	11,170	11,299	11,137
Indigenous Production	1,568	1,664	882	436	282	187	175	154
Import	3,351	2,122	5,425	7,599	9,978	11,306	11,097	11,483
Export	-	-	-	-	-	-	-	-
Transformation Sector	-4,982	-3,834	-6,151	-7,957	-10,217	-11,231	-11,037	-11,683
Petroleum Refineries	-4,982	-3,834	-6,151	-7,957	-10,217	-11,231	-11,037	-11,683
Petroleum Products								
Primary Energy Supply	-73	226	-73	943	393	642	1,639	1,386
Import	124	392	547	1,672	1,958	2,552	3,935	4,291
Export	-	-	-158	-	-875	-1,554	-1,836	-2,130
Transformation Sector	4,387	3,680	6,004	7,632	10,567	11,778	10,249	11,105
Power Generation	-612	-292	-489	-524	-305	-205	-936	-725
Petroleum Refineries	5,180	4,083	6,654	8,399	10,874	11,987	11,186	11,832
Final Energy Consumption	4,960	4,571	6,134	8,887	10,617	11,133	11,436	11,952
Industry	1,652	1,439	1,525	1,991	2,121	2,574	2,061	2,619
Transport	2,288	2,247	3,390	5,103	6,607	7,271	8,096	8,088
Residential & Commercial	760	649	889	1,275	1,267	1,055	1,173	1,170
Agriculture	106	72	149	248	168	11	-	-
Natural Gas								
Primary Energy Supply	2,308	1,436	1,982	1,749	5,427	7,509	7,048	7,071
Indigenous Production	2,308	1,436	1,982	1,807	2,048	1,966	1,929	2,054
Import	-	-	-	-	3,674	5,758	5,280	5,365
Export	-	-	-	-57	-	-	-	-
Transformation Sector	-411	-483	-1,198	-1,134	-4,190	-3,216	-4,957	-5,375
Power Generation	-39	-56	-63	-418	-1,653	-3,216	-2,712	-2,255
Final Energy Consumption	218	235	268	355	1,104	1,534	1,277	1,321
Industry	68	61	63	109	729	989	758	732
Transport	-	-	6	9	8	27	31	36
Residential & Commercial	150	174	200	238	338	438	442	529
Agriculture	-	-	-	-	29	-	-	-
Electricity								
Power Generation	1,010	1,207	1,579	2,409	3,500	4,349	4,514	4,757
Thermal	379	317	808	827	1,854	2,535	2,259	2,282
Hydro	631	890	771	1,582	1,646	1,814	2,254	2,475
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	837	989	1,324	2,074	3,147	4,091	4,154	4,355
Industry	476	556	764	1,214	1,928	2,784	2,800	2,936
Transport	15	17	16	17	19	20	22	28
Residential & Commercial	271	329	433	630	919	1,276	1,322	1,376
Agriculture	76	88	112	214	280	-	-	-

Major Economic Indicators of Chile

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	11.17	12.10	13.18	14.39	15.41	16.12	16.30	16.43
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	27.94	29.21	40.45	61.35	75.20	87.48	92.48	96.15
Real Term (Billions of 2000 Price and 2000 PPP)	53.49	55.90	77.42	117.42	143.93	167.44	177.01	184.03
Nominal (Billions of Current USD)	27.57	16.49	31.56	71.35	75.20	95.84	118.91	145.84
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	2,501	2,413	3,069	4,262	4,879	5,426	5,676	5,851
Real Term (2000 Price and 2000 PPP)	4,787	4,619	5,874	8,157	9,339	10,385	10,863	11,199
Nominal (Current USD)	2,468	1,362	2,395	4,957	4,879	5,944	7,297	8,875
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	1,075.32	2,651.94	9,622.32	28,309.22	40,575.32	58,404.61	66,598.99	77,337.70
Household Final Consumption Expenditure, etc.	760.09	1,775.62	5,886.61	17,270.34	25,897.22	34,695.16	38,772.48	42,527.10
General Government Final Consumption Expenditure	133.89	355.80	961.66	2,938.54	5,053.86	6,660.16	7,255.09	7,781.76
Gross Fixed Capital Formation	178.98	446.72	2,278.74	7,117.87	8,410.72	11,153.79	13,732.95	14,887.71
Stock Change	47.07	9.23	144.41	294.85	457.37	568.43	1,159.96	875.55
Exports of Goods and Services	245.39	746.45	3,270.24	8,295.39	12,820.21	23,739.17	27,332.47	35,129.66
Imports of Goods and Services	290.10	681.89	2,939.59	7,672.55	12,064.06	18,412.10	21,653.96	23,864.08
Real GDP & its Components (Billions of 1986 CLP) *1								
Gross Domestic Product	17,318.50	18,101.36	25,067.26	38,019.30	46,602.20	54,217.38	57,315.53	59,588.82
Household Final Consumption Expenditure, etc.	12,047.04	10,938.10	14,853.03	23,482.62	29,260.37	34,349.00	37,067.07	39,706.24
General Government Final Consumption Expenditure	3,858.20	3,710.80	3,960.60	4,798.35	5,655.05	6,518.35	6,860.71	7,105.02
Gross Fixed Capital Formation	2,826.82	2,321.70	4,402.88	8,431.94	9,205.58	11,331.44	13,812.48	14,369.50
Stock Change	116.68	33.29	140.16	387.14	517.92	526.17	772.33	850.84
Exports of Goods and Services	3,667.88	4,020.07	6,646.52	10,920.20	16,108.37	20,873.65	21,605.30	22,511.64
Imports of Goods and Services	4,330.33	2,699.71	5,156.14	10,555.83	14,197.24	19,381.24	22,802.35	24,954.42
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	5.4	5.9	6.5	4.8	4.5	5.0	5.0	5.0
Industry	41.5	40.8	38.9	36.7	35.3	34.5	34.3	33.9
Services, etc.	59.9	55.0	53.8	54.5	55.4	55.3	55.4	55.7
Manufacturing Production Index (2000=100) *2	53.0	51.9	68.4	88.6	100.0	117.4	127.8	127.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b	4.705	3.804	8.372	16.024	19.210	32.520	41.297	58.116
Imports, c.i.f.	5.797	3.072	7.742	15.900	18.507	24.794	32.735	38.409
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.764	0.884	1.284	1.381	2.119	9.585	10.775	22.587
Current Account	-1.971	-1.413	-0.485	-1.350	-0.898	2.074	1.449	6.838
Overall Balance	1.321	-2.877	2.323	1.139	0.317	-0.191	1.711	1.998
Foreign Exchange Rate (CLP/USD) *1	39.0000	160.8600	304.9033	396.7733	539.5875	609.3687	560.0901	530.2871
Purchasing Power Parity (CLP/International Dollar) *1	37.2338	68.0948	152.3099	261.8015	281.9195	318.7125	333.6903	361.2058
Price Indices								
GDP Deflator (1986=100) *3	6.2	14.7	38.4	74.5	87.1	107.7	116.2	129.8
Industry Selling Price Index (2000=100) *2	7.1	21.4	45.4	77.5	100.0	125.8	132.6	141.9
Consumer Price Index (2000=100) *2	6.4	16.6	40.7	77.8	100.0	110.3	113.6	117.5
Growth Rate (%) *3								
Real GDP	8.15	7.12	3.70	10.63	4.49	5.98	5.71	3.97
Population	1.45	1.67	1.78	1.65	1.24	1.08	1.06	0.84
Price								
Home & Import Goods Price Index (2000=100)	39.6	43.4	21.8	7.6	11.4	2.5	5.4	7.0
Consumer Price Index	35.1	29.5	26.0	8.2	3.8	1.1	3.1	3.4

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

Note : N.A. shows "not available"
 : CLP shows Chilean Peso, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

Energy Price of Chile in 2006

Currency Exchange Rate

	Local currency /	
Currency Exchange Rate	US Dollar	
Local Currency Unit		

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/t	120.25	Coking Coal			Coking Coal		
Anthracite			Anthracite			Anthracite		
Other bituminous coal	USD/t	53.53	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		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil	USD/bbl	60.27	Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil			Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG	USD/m3	292.64	Ethane			Ethane		
Naphtha			LPG	\$/kg	580.83	LPG	\$/Kg	685.38
Motor Gasoline	USD/m3	545.56	Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline	\$/tr	309.91	Motor Gasoline	\$/tr	590.55
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil	USD/m3	564.84	Other Kerosene	\$/tr	364.96	Other Kerosene	\$/tr	442.00
Fuel Oil			Gas/Diesel Oil	\$/tr	322.68	Gas/Diesel Oil	\$/tr	444.64
White Spirit SBP			Fuel Oil			Fuel Oil		
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke	USD/t	48.28	Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas	USD/m3	0.11	Natural Gas			Natural Gas		
Liquefied Natural Gas			Natural Gas			Natural Gas	\$/m3	437.45
Compressed Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity	\$/kwh	19.42	Electricity			Electricity		
Other Energy Products			Electricity	USD/kwh	0.04	Industrial	\$/KWh	43.57
			Other Energy Products			Commercial	\$/KWh	61.83
						Residential	\$/KWh	71.28
						Others		
						Other Energy Products		

3.5 China

Energy Balance Table of People's Republic of China in 2006

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	1,239,304	-	184,766	-	-	-	-	-	-
2 Import	23,048	0	145,175	44,985	-	587	5,578	200	719
3 Export	-33,144	-9,864	-6,337	-15,260	-3,520	-1,419	-3,781	-66	-791
4 International Marine Bunkers	-	-	-	-2,343	-	-	-	-	-255
5 Stock Changes	5,338	-2,256	-1,111	-9	-75	-	-45	-7	975
6 Total Primary Energy Supply	1,234,546	-12,120	322,492	27,372	-3,595	-832	1,752	126	648
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-881,774	90,239	-310,698	283,070	56,177	19,437	10,031	1,457	116,787
8.1 Main Activity Producer	-601,591	-879	-	-	-	-	-	-	-
8.2 Autoproducers	-55,615	-11,164	-238	-17,577	-10	-	-	-	-3,190
8.3 Gas Processing	-7,260	-1,605	-	-134	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-310,460	300,781	56,187	19,437	10,031	1,457	119,976
8.5 Coal Transformation	-217,308	103,888	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-73,373	-3,073	-7,652	-6,540	-685	-	-	-35	-3,215
10. Discrepancy	23,477	-2,336	-40	49	885	-0	254	-355	-2
11 Total Final Energy Consumption	302,877	72,710	4,103	303,951	52,781	18,605	12,037	1,193	114,218
12 Industry Sector	228,251	65,053	2,957	118,292	5,817	18,605	-	130	16,936
13 Transport Sector	4,758	6	-	106,483	27,549	-	10,265	92	58,519
14 Other Sector	69,868	7,651	-	79,024	19,262	-	1,772	639	37,723
14.1 Residential & Commercial	54,179	6,903	-	33,335	6,864	-	-	273	7,144
14.2 Agriculture	11,717	541	-	22,615	2,468	-	-	16	20,043
14.3 Other	3,972	207	-	23,073	9,930	-	1,772	350	10,536
15 Non-energy	19,926	12,794	1,287	32,959	155	-	-	58	318

Energy Balance Table of People's Republic of China in 2005

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	1,143,269	-	181,353	-	-	-	-	-	-
2 Import	15,683	4	126,817	41,484	-	320	3,382	-	543
3 Export	-9,828	-8,700	-8,067	-16,710	-5,764	-1,666	-2,717	-50	-1,506
4 International Marine Bunkers	-	-	-	-2,214	-	-	-	-	-238
5 Stock Changes	-7,786	-10,542	-788	198	-192	-	-66	336	-78
6 Total Primary Energy Supply	1,141,337	-19,238	299,315	22,758	-5,956	-1,346	599	286	-1,278
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-764,659	88,380	-290,621	264,109	54,553	17,495	10,570	1,195	109,379
8.1 Main Activity Producer	-522,570	-765	-	-	-	-	-	-	-
8.2 Autoproducers	-50,730	-9,917	-216	-19,899	-8	-	-	-	-3,741
8.3 Gas Processing	-7,374	-1,583	-	-144	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-290,405	284,152	54,561	17,495	10,570	1,195	113,120
8.5 Coal Transformation	-183,984	100,646	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-68,541	-2,798	-6,580	-6,514	-670	-	-	-39	-3,360
10. Discrepancy	-8,297	890	1,547	481	140	1	-87	-274	51
11 Total Final Energy Consumption	299,841	67,235	3,661	280,834	48,067	16,151	11,083	1,168	104,793
12 Industry Sector	222,612	56,099	2,549	110,012	5,685	16,151	-	231	16,998
13 Transport Sector	5,463	7	-	97,855	24,982	-	9,448	51	51,198
14 Other Sector	71,766	11,128	-	72,799	17,231	-	1,634	564	35,446
14.1 Residential & Commercial	56,136	10,993	-	30,270	6,213	-	-	300	6,349
14.2 Agriculture	11,745	43	-	21,175	2,348	-	-	16	18,744
14.3 Other	3,885	92	-	21,354	8,670	-	1,634	247	10,354
15 Non-energy	19,944	10,506	1,146	32,856	152	-	-	73	332

Energy Balance Table of People's Republic of China in 2006 (Continued)

unit: ktoc

4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	54,513	37,478	14,292	-	5,673	-	-	1,536,025
27,993	6,427	-	-	3,482	88	-	-	-	-	463	-	213,760
-2,581	-181	-	-	-2,922	-2,698	-	-	-	-	-1,055	-	-68,359
-2,088	-	-	-	-	-	-	-	-	-	-	-	-2,343
-841	-16	-	-	-	-	-	-	-	-	-	-	1,961
22,484	6,230	-	-	560	51,903	37,478	14,292	-	5,673	-592	-	1,681,044
-	-	-	-	-	-	-	-	-	-	-	-	-
6,840	20,879	9,020	-	42,443	2,374	-37,478	-14,292	-	-2,698	246,452	59,247	-565,556
-	-	-	-	-	-	-37,478	-14,292	-	-2,698	229,925	33,135	-393,877
-10,872	-65	-1,801	-	-1,639	-5,482	-	-	-	-	16,527	26,112	-47,437
-134	-	-	-	-	8,378	-	-	-	-	-	-	-620
17,847	20,944	10,820	-	44,082	-	-	-	-	-	-	-	-9,679
-	-	-	-	-	-	-	-	-	-	-	-	-113,420
-	-	-	-	-	-522	-	-	-	-	-	-	-522
-750	-1,095	-492	-	-268	-8,380	-	-	-	-46	-46,371	-12,677	-158,113
-34	-681	-18	-	-0	-835	-	-	-	-3	-71	-1,349	18,892
28,540	25,332	8,509	-	42,735	45,062	-	-	-	2,926	199,419	45,221	976,268
18,076	5,368	8,509	-30,514	39,877	24,399	-	-	-	2,926	138,215	29,697	609,790
9,419	638	-	-	-	757	-	-	-	-	4,019	-	116,023
353	19,274	-	-	-	16,487	-	-	-	-	57,184	15,524	245,737
214	18,841	-	-	-	15,298	-	-	-	-	35,250	14,254	159,219
7	80	-	-	-	-	-	-	-	-	8,145	21	43,039
131	353	-	-	-	1,189	-	-	-	-	13,789	1,249	43,479
1,161	699	54	-	30,514	3,420	-	-	-	-	-	-	70,385

Energy Balance Table of People's Republic of China in 2005 (Continued)

unit: ktoc

4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	47,429	34,143	13,835	-	5,996	-	-	1,426,025
26,086	7,404	-	-	3,748	-	-	-	-	-	292	-	184,280
-2,300	-32	-	-	-2,674	-2,764	-	-	-	-	-815	-	-46,884
-1,976	-	-	-	-	-	-	-	-	-	-	-	-2,214
135	62	-	-	-	-	-	-	-	-	-	-	-18,918
21,946	7,434	-	-	1,074	44,665	34,143	13,835	-	5,996	-523	-	1,542,289
-	-	-	-	-	-	-	-	-	-	-	-	-
7,371	17,153	8,729	-	37,663	2,492	-34,143	-13,835	-	-2,087	214,823	54,819	-480,722
-	-	-	-	-	-	-34,143	-13,835	-	-2,087	200,743	30,730	-341,928
-12,778	-39	-1,317	-	-2,016	-5,092	-	-	-	-	14,080	24,089	-47,685
-144	-	-	-	-	7,979	-	-	-	-	-	-	-1,122
20,293	17,192	10,047	-	39,678	-	-	-	-	-	-	-	-6,254
-	-	-	-	-	-	-	-	-	-	-	-	-83,339
-	-	-	-	-	-396	-	-	-	-	-	-	-396
-671	-1,086	-447	-	-242	-7,422	-	-	-	-249	-44,389	-10,312	-146,803
182	4	-24	-	488	-1,281	-	-	-	-3	-105	-1,428	-8,195
28,828	23,505	8,258	-	38,982	38,454	-	-	-	3,658	169,807	43,080	906,568
16,166	5,353	8,258	-25,659	36,141	23,661	-	-	-	3,658	116,274	29,178	564,042
11,610	565	-	-	-	863	-	-	-	-	3,701	-	107,889
421	17,503	-	-	-	13,930	-	-	-	-	49,831	13,901	233,356
275	17,133	-	-	-	12,328	-	-	-	-	30,763	12,894	153,385
7	60	-	-	-	-	-	-	-	-	7,181	18	40,163
139	310	-	-	-	1,601	-	-	-	-	11,887	989	39,808
1,040	692	52	-	30,514	3,420	-	-	-	-	-	-	67,871

Major Energy Indicators of People's Republic of China

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	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	421,007	527,114	654,004	857,999	905,175	1,399,704	1,542,289	1,681,044
Indigenous Production	436,251	583,010	705,811	871,184	865,531	1,307,772	1,426,025	1,536,025
Import	1,824	2,073	8,436	35,416	96,856	181,707	184,280	213,760
Export	-21,406	-40,408	-38,922	-44,273	-64,437	-77,621	-46,884	-68,359
Final Energy Consumption	318,167	409,434	489,928	660,681	634,676	835,557	906,568	976,268
Industry	217,327	271,662	329,825	409,970	379,343	522,527	565,323	614,508
Transport	14,999	24,253	28,776	36,370	60,078	98,427	107,889	116,023
Residential & Commercial	75,698	104,148	118,373	107,031	95,991	137,725	153,385	159,219
Agriculture	10,144	9,371	12,954	28,403	30,009	39,214	40,163	43,039
Coal, Coal Products								
Primary Energy Supply	312,823	413,127	512,155	659,176	631,243	993,835	1,122,099	1,222,426
Indigenous Production	310,081	436,150	539,952	680,379	649,618	1,043,000	1,143,269	1,239,304
Import	995	1,168	877	818	1,496	11,176	15,686	23,048
Export	-3,344	-4,136	-7,785	-20,334	-40,130	-55,548	-18,528	-43,008
Transformation Sector	-67,719	-86,321	-160,505	-258,749	-332,442	-593,697	-676,278	-791,534
Power Generation	-57,524	-74,157	-119,784	-233,122	-327,372	-517,089	-583,983	-669,250
Final Energy Consumption	225,420	298,564	338,239	425,458	296,805	341,921	367,076	375,586
Industry	146,103	191,854	224,832	300,542	216,937	260,751	278,711	293,303
Transport	10,112	12,095	11,089	7,052	5,540	5,475	5,470	4,764
Residential & Commercial	69,205	94,615	102,319	81,950	46,771	59,727	67,129	61,082
Agriculture	-	-	-	11,201	8,919	12,091	11,788	12,258
Crude Oil								
Primary Energy Supply	92,231	95,167	117,828	147,952	213,834	290,123	299,315	322,492
Indigenous Production	105,948	124,898	138,448	150,047	163,003	175,873	181,353	184,766
Import	366	-	2,926	17,090	70,267	122,720	126,817	145,175
Export	-13,309	-30,031	-24,014	-18,227	-10,306	-5,492	-8,067	-6,337
Transformation Sector	-84,432	-88,686	-110,969	-144,197	-204,047	-277,556	-290,621	-310,698
Petroleum Refineries	-78,692	-85,891	-109,722	-143,536	-203,057	-277,373	-290,405	-310,460
Petroleum Products								
Primary Energy Supply	-4,268	-3,142	-3,389	10,576	10,828	29,642	22,758	27,372
Import	463	906	4,634	17,452	24,960	47,518	41,484	44,985
Export	-4,753	-6,241	-7,123	-5,194	-10,229	-13,495	-16,710	-15,260
Transformation Sector	62,976	63,711	96,269	123,550	182,654	244,929	264,109	283,070
Power Generation	-14,928	-11,481	-11,140	-17,032	-15,203	-22,788	-19,899	-17,577
Petroleum Refineries	77,904	75,192	107,409	140,582	198,116	267,822	284,152	300,781
Final Energy Consumption	49,729	61,230	80,728	121,892	187,223	270,065	280,834	303,951
Industry	32,880	37,927	47,912	30,019	62,920	110,019	110,180	118,444
Transport	4,638	11,572	16,676	27,687	51,830	88,039	97,855	106,483
Residential & Commercial	4,524	5,249	7,070	8,653	20,292	29,137	30,270	33,335
Agriculture	7,687	6,483	9,070	12,185	15,287	20,444	21,175	22,615
Natural Gas								
Primary Energy Supply	13,285	12,038	14,242	16,709	22,401	36,996	44,665	51,903
Indigenous Production	13,285	12,038	14,242	16,709	25,323	39,268	47,429	54,513
Import	-	-	-	-	-	-	-	88
Export	-	-	-	-	-2,922	-2,272	-2,764	-2,698
Transformation Sector	-223	405	515	13,078	6,691	3,749	2,492	2,374
Power Generation	-223	-251	-680	-1,823	-4,855	-3,668	-5,092	-5,482
Final Energy Consumption	12,158	11,059	13,205	27,667	24,087	33,274	38,454	45,062
Industry	11,917	10,244	11,084	20,919	14,147	19,989	23,661	27,819
Transport	9	9	47	62	93	1,047	863	757
Residential & Commercial	232	806	2,074	3,015	5,187	10,922	12,328	15,298
Agriculture	-	-	-	2	-	-	-	-
Electricity								
Power Generation	27,447	37,376	53,440	86,695	116,428	189,485	214,823	246,452
Thermal	22,060	28,967	42,540	66,958	92,930	145,928	166,845	194,683
Hydro	5,387	8,408	10,900	16,395	19,134	30,405	34,143	37,478
Nuclear	-	-	-	3,342	4,363	13,152	13,835	14,292
Final Energy Consumption	24,718	34,053	52,150	60,634	90,621	147,690	169,807	199,419
Industry	20,284	27,110	40,392	40,300	59,109	100,433	116,274	138,215
Transport	241	577	964	1,568	2,419	3,867	3,701	4,019
Residential & Commercial	1,736	3,478	6,911	10,367	17,771	27,519	30,763	35,250
Agriculture	2,457	2,888	3,884	5,011	5,789	6,661	7,181	8,145

Major Economic Indicators of People's Republic of China

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	981.24	1,051.04	1,135.19	1,204.86	1,262.65	1,296.16	1,304.50	1,311.80
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	182.94	304.46	444.59	792.78	1,198.47	1,714.98	1,893.34	2,095.92
Real Term (Billions of 2000 Price and 2000 PPP)	457.03	760.62	1,110.72	1,980.59	2,994.10	4,284.50	4,730.09	5,236.21
Nominal (Billions of Current USD)	301.51	305.26	387.77	727.95	1,198.47	1,931.64	2,243.85	2,644.67
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	186	290	392	658	949	1,323	1,451	1,598
Real Term (2000 Price and 2000 PPP)	466	724	978	1,644	2,371	3,306	3,626	3,992
Nominal (Current USD)	307	290	342	604	949	1,490	1,720	2,016
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	451.78	896.44	1,854.79	6,079.40	9,921.50	15,987.80	18,386.80	21,087.10
Household Final Consumption Expenditure, etc.	233.12	468.74	945.09	2,836.97	4,585.46	6,383.35	7,121.75	8,015.65
General Government Final Consumption Expenditure	67.67	129.89	263.96	837.85	1,566.14	2,319.94	2,660.52	3,016.69
Gross Fixed Capital Formation	132.24	267.20	482.78	2,088.50	3,384.44	6,511.77	7,730.48	9,028.17
Stock Change	27.73	78.55	191.92	458.51	99.84	405.07	334.15	381.70
Exports of Goods and Services	48.40	89.64	355.49	1,402.70	2,314.32	5,428.15	6,857.71	8,465.21
Imports of Goods and Services	50.06	126.69	290.46	1,268.32	2,075.29	5,020.23	5,835.08	6,799.47
Real GDP & its Components (Billions of 1990 CNY) *1								
Gross Domestic Product	1,514.47	2,520.46	3,680.58	6,563.03	9,921.50	14,197.46	15,673.99	17,351.11
Household Final Consumption Expenditure, etc.	827.22	1,480.80	1,986.80	3,271.50	4,585.50	5,918.70	6,427.30	7,075.00
General Government Final Consumption Expenditure	240.13	410.33	554.89	966.17	1,566.10	2,151.10	2,401.10	2,662.70
Gross Fixed Capital Formation	434.15	732.56	889.09	2,238.40	3,384.40	5,462.20	6,205.00	7,030.30
Stock Change	88.11	208.53	341.66	476.65	99.84	334.60	267.81	297.17
Exports of Goods and Services	356.34	489.85	618.52	1,176.70	2,314.30	5,345.10	6,641.40	8,187.90
Imports of Goods and Services	226.28	482.93	456.97	1,173.40	2,075.30	4,480.50	4,990.60	5,705.60
Sectional Shares of Real GDP (%) *4								
Agriculture, Fishery and Forest	36.7	32.8	27.5	18.9	14.8	11.9	11.4	10.8
Industry	34.1	33.0	34.8	43.5	45.9	47.8	48.4	49.2
Services, etc.	30.8	37.6	40.3	37.7	39.3	40.2	40.2	40.1
Industrial Production Index (2000=100) *3*4	10.9	17.5	27.3	61.5	100.0	150.3	167.6	189.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.099	27.350	62.091	148.780	249.203	593.326	761.953	968.936
Imports, c.i.f.	19.941	42.252	53.345	132.084	225.094	561.229	659.953	791.461
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	-13.123	9.165	18.050	34.474	58.982	134.189	217.746
Current Account	N.A.	-11.417	11.997	1.618	20.518	68.659	160.818	253.268
Overall Balance	N.A.	-2.440	12.047	22.469	10.693	206.153	207.342	246.855
Foreign Exchange Rate (CNY/USD) *1	1.4984	2.9367	4.7832	8.3514	8.2785	8.2768	8.1943	7.9734
Purchasing Power Parity (CNY/International Dollar) *1	1.8307	1.6918	2.0463	3.3331	3.3137	3.4096	3.4476	3.4615
Price Indices								
GDP Deflator (1990=100) *4	29.8	35.6	50.4	92.6	100.0	112.6	117.3	121.5
Wholesale Price Index (1995=100) *4	29.6	32.6	51.8	100.0	98.7	103.4	108.5	0.0
Consumer Price Index (1995=100) *4	30.4	36.0	58.3	100.0	99.5	100.1	100.9	0.0
Growth Rate (%)								
Real GDP *4	7.80	13.50	3.80	10.90	8.40	10.10	10.40	10.70
Population *4	1.26	1.37	1.48	1.09	0.71	0.60	0.64	0.56
Price *4								
Wholesale Price Index	0.5	8.7	4.1	14.9	2.8	6.1	4.9	-100.0
Consumer Price Index	6.0	8.8	2.1	14.8	-1.5	2.8	0.8	-100.0

Source *1 : "World Development Indicators", World Bank
 *2 : "International Financial Statistics", International Monetary Fund
 *3 : "China Statistics Yearbook", China Statistical Publishing House
 *4 : Estimation from *1, *2 and *3 by the Coordinating Agency

Note : N.A. shows "not available"
 : CNY shows Yuan Renminbi, USD shows United States Dollar

3.6 Hong Kong, China

Energy Balance Table of Hong Kong, China in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	-	-	-	-	-	-	-
2 Import	7,182	-	-	16,436	363	533	4,744	24	3,818
3 Export	-0	-	-	-1,187	-33	-	-227	-	-100
4 International Marine Bunkers	-	-	-	-7,329	-	-	-	-	-2,281
5 Stock Changes	-331	-	-	-188	5	57	105	-	129
6 Total Primary Energy Supply	6,851	-	-	7,731	336	590	4,623	24	1,567
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-6,851	-	-	-627	-	-590	-	-	-7
8.1 Main Activity Producer	-6,851	-	-	-37	-	-	-	-	-7
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-590	-	-590	-	-	-
8.4 Petroleum Refineries	-	-	-	-	-	-	-	-	-
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	-0	-	-	-554	94	0	-858	-	209
11 Total Final Energy Consumption	0	-	-	6,550	430	-	3,765	24	1,769
12 Industry Sector	0	-	-	191	-	-	-	-	88
13 Transport Sector	-	-	-	6,116	430	-	3,765	-	1,590
14 Other Sector	-	-	-	243	-	-	-	24	91
14.1 Residential & Commercial	-	-	-	243	-	-	-	24	91
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Hong Kong, China in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	-	-	-	-	-	-	-
2 Import	6,826	-	-	15,405	379	656	4,543	-	3,565
3 Export	-0	-	-	-1,377	-29	-	-142	-	-72
4 International Marine Bunkers	-	-	-	-5,718	-	-	-	-	-1,602
5 Stock Changes	44	-	-	-91	-2	62	367	33	1
6 Total Primary Energy Supply	6,870	-	-	8,219	347	718	4,769	33	1,893
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-6,869	-	-	-756	-	-718	-	-	-6
8.1 Main Activity Producer	-6,869	-	-	-38	-	-	-	-	-6
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-718	-	-718	-	-	-
8.4 Petroleum Refineries	-	-	-	-	-	-	-	-	-
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	-	-	-	-1,131	3	-0	-1,097	-0	-37
11 Total Final Energy Consumption	1	-	-	6,332	350	-	3,672	33	1,850
12 Industry Sector	1	-	-	204	-	-	-	-	204
13 Transport Sector	-	-	-	5,878	350	-	3,672	-	1,556
14 Other Sector	-	-	-	250	-	-	-	33	89
14.1 Residential & Commercial	-	-	-	122	-	-	-	33	89
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	-	128	-	-	-	-	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Hong Kong, China in 2006 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	-	-	-	-	93	-	-	93	
6,484	469	-	-	-	2,185	-	-	-	-	937	-	26,740	
-827	-0	-	-	-	-	-	-	-	-	-389	-	-1,577	
-5,048	-	-	-	-	-	-	-	-	-	-	-	-7,329	
-475	-10	-	-	-	-21	-	-	-	-	-	-	-540	
134	459	-	-	-	2,164	-	-	-	93	548	-	17,388	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-30	-	-	-	-	-1,583	-	-	-	-46	3,806	-	-5,301	
-30	-	-	-	-	-2,164	-	-	-	-	3,806	-	-5,246	
-	-	-	-	-	-	-	-	-	-46	-	-	-46	
-	-	-	-	-	581	-	-	-	-	-	-	-8	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-885	-	-885	
0	-	-	-	-	0	-	-	-	-46	-0	-	-601	
104	459	-	-	-	581	-	-	-	-	3,469	-	10,600	
104	-	-	-	-	19	-	-	-	-	335	-	546	
-	330	-	-	-	-	-	-	-	-	58	-	6,174	
-	128	-	-	-	562	-	-	-	-	3,076	-	3,880	
-	128	-	-	-	562	-	-	-	-	3,076	-	3,880	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Energy Balance Table of Hong Kong, China in 2005 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	-	-	-	-	81	-	-	81	
5,892	370	-	-	-	2,033	-	-	-	-	946	-	25,210	
-1,134	-0	-	-	-	-	-	-	-	-	-387	-	-1,763	
-4,116	-	-	-	-	-	-	-	-	-	-	-	-5,718	
-610	58	-	-	-	-	-	-	-	-	-	-	-48	
32	428	-	-	-	2,033	-	-	-	81	559	-	17,762	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-32	-	-	-	-	-1,447	-	-	-	-41	3,307	-	-5,805	
-32	-	-	-	-	-2,033	-	-	-	-	3,307	-	-5,632	
-	-	-	-	-	-	-	-	-	-41	-	-	-41	
-	-	-	-	-	586	-	-	-	-	-	-	-132	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-422	-	-422	
0	-0	-	-	-	-	-	-	-	-41	-0	-	-1,172	
-	428	-	-	-	586	-	-	-	-	3,444	-	10,364	
-	-	-	-	-	19	-	-	-	-	350	-	574	
-	300	-	-	-	-	-	-	-	-	123	-	6,001	
-	128	-	-	-	567	-	-	-	-	2,971	-	3,788	
-	-	-	-	-	567	-	-	-	-	2,971	-	3,660	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	128	-	-	-	-	-	-	-	-	-	-	128	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Major Energy Indicators of Hong Kong, China

ktoe

	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	5,293	7,011	10,643	13,250	15,094	16,264	17,762	17,388
Indigenous Production	-	-	-	-	-	85	81	93
Import	6,195	8,021	12,918	22,159	19,786	25,943	25,210	26,740
Export	-199	-294	-2,123	-7,837	-1,557	-1,614	-1,763	-1,577
Final Energy Consumption	3,464	4,330	6,689	9,275	11,204	9,925	10,364	10,600
Industry	1,040	1,335	1,516	1,373	1,714	704	574	546
Transport	1,512	1,658	3,136	5,132	6,088	5,514	6,001	6,174
Residential & Commercial	892	1,321	2,025	2,754	3,389	3,525	3,660	3,880
Agriculture	-	-	-	-	-	-	-	-
Coal, Coal Products								
Primary Energy Supply	20	3,232	6,008	5,751	4,125	6,313	6,870	6,851
Indigenous Production	-	-	-	-	-	-	-	-
Import	21	3,324	5,362	5,467	3,658	6,742	6,826	7,182
Export	-1	-1	-1	-1	-24	-0	-0	-0
Transformation Sector	-	-3,216	-5,996	-5,742	-4,121	-6,337	-6,869	-6,851
Power Generation	-	-3,216	-5,996	-5,742	-4,121	-6,337	-6,869	-6,851
Final Energy Consumption	20	16	12	9	4	0	1	0
Industry	-	-	-	-	-	0	1	0
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-
Petroleum Products								
Primary Energy Supply	5,299	3,869	4,790	6,961	8,186	7,295	8,219	7,731
Import	6,174	4,697	7,556	16,022	13,245	16,365	15,405	16,436
Export	-172	-203	-1,967	-7,708	-1,431	-1,348	-1,377	-1,187
Transformation Sector	-2,871	-1,097	-489	-694	-684	-711	-756	-627
Power Generation	-2,789	-908	-126	-169	-37	-57	-38	-37
Petroleum Refineries	-	-	-	-	-	-	-	-
Final Energy Consumption	2,430	2,773	4,304	6,227	7,518	5,968	6,332	6,550
Industry	674	880	908	869	1,269	315	204	191
Transport	1,512	1,658	3,136	5,132	6,088	5,396	5,878	6,116
Residential & Commercial	243	235	260	225	161	76	122	243
Agriculture	-	-	-	-	-	-	-	-
Natural Gas								
Primary Energy Supply	-	-	-	16	2,007	2,048	2,033	2,164
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	22	2,007	2,048	2,033	2,185
Export	-	-	-	-	-	-	-	-
Transformation Sector	76	172	324	456	-1,447	-1,465	-1,447	-1,583
Power Generation	-	-	-	-16	-2,007	-2,048	-2,033	-2,164
Final Energy Consumption	76	172	324	472	560	583	586	581
Industry	5	6	13	21	21	21	19	19
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	71	166	311	451	539	563	567	562
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	1,088	1,654	2,488	2,400	2,694	3,193	3,307	3,806
Thermal	1,088	1,654	2,488	2,400	2,694	3,193	3,307	3,806
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	939	1,370	2,049	2,567	3,121	3,373	3,444	3,469
Industry	361	450	596	483	424	369	350	335
Transport	-	-	-	-	-	119	123	58
Residential & Commercial	578	920	1,454	2,077	2,689	2,886	2,971	3,076
Agriculture	-	-	-	-	-	-	-	-

Major Economic Indicators of Hong Kong, China

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	5.06	5.46	5.70	6.16	6.67	6.79	6.81	6.86
Gross Domestic Product *4								
Real Term (Billions of 2000 Price and 2000 USD)	58.46	76.76	108.66	142.52	169.12	193.39	207.15	221.14
Real Term (Billions of 2000 Price and 2000 PPP)	60.87	79.92	113.12	148.38	176.07	201.33	215.66	230.22
Nominal (Billions of Current USD)	28.82	35.53	76.89	144.23	169.12	165.88	177.83	189.80
GDP per Capita *4								
Real Term (2000 Price and 2000 USD)	11,547	14,069	19,048	23,152	25,375	28,488	30,405	32,250
Real Term (2000 Price and 2000 PPP)	12,022	14,647	19,830	24,103	26,417	29,659	31,654	33,574
Nominal (Current USD)	5,692	6,512	13,479	23,429	25,375	24,437	26,101	27,679
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	143.40	276.82	598.95	1,115.74	1,317.65	1,291.90	1,383.05	1,474.33
Household Final Consumption Expenditure, etc.	85.41	169.39	342.17	691.71	777.14	767.92	804.94	866.10
General Government Final Consumption Expenditure	8.71	19.75	43.14	93.62	120.17	127.33	121.43	123.44
Gross Fixed Capital Formation	46.23	58.07	156.16	334.36	347.38	275.03	289.22	316.97
Stock Change	3.74	1.47	5.73	45.66	14.40	7.08	-4.76	-0.93
Exports of Goods and Services	127.48	297.72	782.38	1,597.77	1,887.70	2,456.59	2,747.54	3,028.91
Imports of Goods and Services	128.17	269.57	730.62	1,647.38	1,829.14	2,342.05	2,575.33	2,860.15
Real GDP & its Components (Billions of 2000 HKD) *1								
Gross Domestic Product	390.34	512.50	725.45	951.55	1,129.13	1,291.14	1,383.05	1,476.43
Household Final Consumption Expenditure, etc.	261.05	350.05	477.56	664.85	733.41	781.49	804.94	852.16
General Government Final Consumption Expenditure	41.20	58.56	79.33	100.08	112.65	125.49	121.43	121.76
Gross Fixed Capital Formation	109.79	114.37	162.52	256.27	274.62	277.91	289.22	307.51
Stock Change	5.66	-0.07	-42.87	-21.42	14.14	7.75	-4.76	-0.21
Exports of Goods and Services	211.00	339.67	793.06	1,458.93	1,780.25	2,484.00	2,747.54	3,000.91
Imports of Goods and Services	215.56	321.63	744.15	1,507.16	1,778.56	2,384.73	2,575.33	2,805.71
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	N.A.	N.A.	N.A.	0.1	0.1	0.1	0.1
Industry	N.A.	N.A.	N.A.	N.A.	12.9	9.7	9.0	8.3
Services, etc.	N.A.	N.A.	N.A.	N.A.	95.9	85.4	86.4	87.1
Manufacturing Production (2000=100) *2	N.A.	84.4	119.8	123.1	100.0	80.6	82.6	84.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	20.323	30.077	82.390	173.871	202.683	265.543	292.119	322.669
Imports, c.i.f.	22.994	31.195	84.725	196.072	214.042	272.893	300.160	335.754
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	N.A.	N.A.	-8.193	-9.312	-7.627	-14.033
Current Account	N.A.	N.A.	N.A.	N.A.	6.993	15.731	20.181	22.928
Overall Balance	N.A.	N.A.	N.A.	N.A.	10.044	3.286	1.378	6.016
Foreign Exchange Rate (HKD/USD) *1	4.9761	7.7908	7.7897	7.7358	7.7912	7.7880	7.7773	7.7678
Purchasing Power Parity (HKD/International Dollar) *1	4.3633	4.9724	6.4883	8.1653	7.4838	5.8633	5.6878	5.5043
Price Indices								
GDP Deflator (2000=100) *4	36.7	54.0	82.6	117.3	116.7	100.1	100.0	99.9
Producer Price Index (2000=100) *2	N.A.	N.A.	93.2	103.7	100.0	97.6	98.3	100.6
Consumer Price Index (2000=100) *2	N.A.	41.4	59.4	93.5	100.0	92.6	93.4	95.3
Growth Rate (%) *4								
Real GDP	10.37	0.19	1.87	3.90	10.20	8.46	7.12	6.75
Population	2.71	1.08	0.32	2.00	0.89	0.37	0.37	0.64
Price								
Producer Price Index	N.A.	N.A.	N.A.	2.8	0.2	2.3	0.7	2.3
Consumer Price Index	N.A.	3.5	10.3	9.0	-3.8	-0.4	0.9	2.1

Source *1 : "World Development Indicators", World Bank
 *2 : "International Financial Statistics", International Monetary Fund
 *3 : Census & Statistics Department, Hong Kong Government.
 *4 : Estimation from *1, *2 and *3 by the Coordinating Agency

Note : N.A. shows "not available"
 : HKD shows Hong Kong Dollar, USD shows United States Dollar

Energy Price of Hong Kong, China in 2006

Currency Exchange Rate

	Local currency /	
Currency Exchange Rate	US Dollar	
Local Currency Unit		

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	HKS / t	981.00	Anthracite			Anthracite		
Other bituminous coal	HKS / t	331.00	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		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil			Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil			Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG	HKS / kg	4.47	Ethane			Ethane		
Naphtha			LPG			LPG	HKS / kg	14.63
Motor Gasoline	HKS / l	4.14	Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline			Motor Gasoline	HKS / l	13.06
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel	HKS / l	3.99	Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil			Other Kerosene			Other Kerosene		
Fuel Oil	HKS / l	2.45	Gas/Diesel Oil			Gas/Diesel Oil		
White Spirit SBP			Fuel Oil			Fuel Oil		
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas	HKS / kg	1.16	Natural Gas			Natural Gas		
Liquefied Natural Gas			Natural Gas			Natural Gas		
Compressed Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Other Energy Products			Electricity			Industrial		
Gas oil, diesel oil and naphtha	HKS / l	3.69	Other Energy Products			Commercial		
						Residential		
						*Average	HKS / kWh	0.896
						Other Energy Products		
						Environmental diesel oil (road)	HKS / l	8.60

3.7 Indonesia

Energy Balance Table of Indonesia in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	105,348	-	48,922	-	-	-	-	-	-
2 Import	60	-	15,768	17,462	5,787	-	667	739	8,871
3 Export	-78,093	-	-18,019	-5,829	-	-117	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	27,315	-	46,672	11,634	5,787	-117	667	739	8,871
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-15,111	16	-44,402	37,131	8,827	3,139	1,329	6,753	6,294
8.1 Main Activity Producer	-15,092	-	-	-8,709	-	-	-	-	-6,648
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-44,402	45,840	8,827	3,139	1,329	6,753	12,942
8.5 Coal Transformation	-19	16	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	-677	-	-2,270	-5,744	-915	-3,023	-90	427	794
11 Total Final Energy Consumption	11,527	16	-	43,021	13,699	-	1,907	7,918	15,959
12 Industry Sector	11,527	-	-	8,717	-	-	-	40	6,287
13 Transport Sector	-	-	-	25,507	13,699	-	1,907	1	9,672
14 Other Sector	-	16	-	8,797	-	-	-	7,877	-
14.1 Residential & Commercial	-	16	-	8,797	-	-	-	7,877	-
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Indonesia in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	82,754	-	48,137	-	-	-	-	-	-
2 Import	53	-	20,471	21,235	4,809	-	513	2,057	12,501
3 Export	-57,745	-	-19,567	-7,363	-	-807	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-1,320	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	23,742	-	49,041	13,873	4,809	-807	513	2,057	12,501
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-13,972	13	-44,642	37,089	9,038	2,620	1,334	6,747	6,965
8.1 Main Activity Producer	-9,189	-	-	-8,646	-	-	-	-	-6,626
8.2 Autoproducers	-4,767	-	-	-613	-	-	-	-	-613
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-44,642	46,348	9,038	2,620	1,334	6,747	14,204
8.5 Coal Transformation	-15	13	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-893	-	-	-	-	-	-
10. Discrepancy	-1,284	0	-3,506	-5,009	-266	-1,814	-24	189	-1,197
11 Total Final Energy Consumption	8,486	13	-	45,952	13,580	-	1,823	8,994	18,269
12 Industry Sector	8,486	-	-	10,444	-	-	-	72	8,000
13 Transport Sector	-	-	-	25,852	13,580	-	1,823	-	10,269
14 Other Sector	-	13	-	9,656	-	-	-	8,922	-
14.1 Residential & Commercial	-	13	-	9,656	-	-	-	8,922	-
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Indonesia in 2006 (Continued)

unit: ktoe												
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	67,942	821	-	5,726	44,365	-	-	273,125
1,331	68	-	-	-	-	-	-	-	-	-	-	33,291
-	-285	-	-	-5,426	-29,590	-	-	-	-	-	-	-131,531
-	-	-	-	-	-	-	-	-	-	-	-	-
1,331	-217	-	-	-5,426	38,352	821	-	5,726	44,365	-	-	174,885
-	-	-	-	-	-	-	-	-	-	-	-	-
1,376	1,260	-	-	8,153	-11,659	-821	-	-5,726	-9	11,447	-	-29,134
-2,061	-	-	-	-	-3,752	-821	-	-5,726	-9	11,447	-	-22,664
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-7,906	-	-	-	-	-	-	-7,906
3,437	1,260	-	-	8,153	-	-	-	-	-	-	-	1,438
-	-	-	-	-	-	-	-	-	-	-	-	-2
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-11,230	-	-	-	-	-1,687	-	-12,917
-255	45	-	-	-2,726	-4,806	-	-	-	-	-76	-	-13,572
2,451	1,088	-	-	-	10,657	-	-	-	44,356	9,684	-	119,262
2,223	168	-	-	-	6,084	-	-	-	7,494	3,751	-	37,573
228	-	-	-	-	5	-	-	-	-	-	-	25,512
-	920	-	-	-	43	-	-	-	36,862	5,934	-	51,651
-	920	-	-	-	43	-	-	-	36,862	5,554	-	51,272
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	379	-	379
-	-	-	-	-	4,366	-	-	-	-	-	-	4,366

Energy Balance Table of Indonesia in 2005 (Continued)

unit: ktoe												
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	68,663	925	-	5,679	43,525	-	-	249,683
1,334	22	-	-	-	-	-	-	-	-	-	-	41,760
-460	-1,000	-	-	-5,096	-30,953	-	-	-	-	-	-	-115,627
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-1,320
874	-978	-	-	-5,096	37,710	925	-	5,679	43,525	-	-	174,495
-	-	-	-	-	-	-	-	-	-	-	-	-
1,926	2,020	-	-	6,440	-11,300	-925	-	-5,679	-7	10,952	-	-28,471
-2,020	-	-	-	-	-3,423	-845	-	-2,585	-	10,952	-	-13,736
-	-	-	-	-	-	-80	-	-3,094	-7	-	-	-8,562
-	-	-	-	-	-7,877	-	-	-	-	-	-	-7,877
3,946	2,020	-	-	6,440	-	-	-	-	-	-	-	1,706
-	-	-	-	-	-	-	-	-	-	-	-	-3
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-14,406	-	-	-	-	-1,570	-	-16,869
-493	-61	-	-	-1,344	-911	-0	-	-0	-	-177	-	-10,888
2,307	980	-	-	-	11,093	-	-	-	43,518	9,205	-	118,267
2,127	245	-	-	-	5,213	-	-	-	6,919	3,651	-	34,713
180	-	-	-	-	5	-	-	-	-	-	-	25,858
-	735	-	-	-	39	-	-	-	36,599	5,554	-	51,861
-	735	-	-	-	39	-	-	-	36,599	5,197	-	51,504
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	357	-	357
-	-	-	-	-	4,526	-	-	-	-	-	-	4,526

Major Energy Indicators of Indonesia

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	31,067	36,101	53,252	82,578	101,236	167,054	174,495	174,885
Indigenous Production	92,083	95,715	119,434	168,134	183,995	239,795	249,683	273,125
Import	7,367	5,097	9,999	15,761	21,403	41,113	41,760	33,291
Export	-68,076	-64,646	-75,853	-100,911	-103,804	-113,853	-115,627	-131,531
Final Energy Consumption	21,078	24,316	33,956	49,272	63,569	117,315	118,267	119,262
Industry	6,756	8,285	11,767	19,678	22,658	39,218	40,548	42,099
Transport	6,236	7,086	11,205	16,673	21,452	22,623	25,858	25,512
Residential & Commercial	7,138	6,057	7,133	9,628	14,457	51,167	51,504	51,272
Agriculture	-	-	-	-	-	-	-	-
Coal, Coal Products								
Primary Energy Supply	166	889	4,056	6,579	10,956	20,983	23,742	27,315
Indigenous Production	200	873	5,785	23,955	44,007	71,960	82,754	105,348
Import	26	398	663	547	272	-	53	60
Export	-59	-383	-2,392	-17,924	-33,323	-50,977	-57,745	-78,093
Transformation Sector	-	-349	-2,252	-3,183	-10,052	-12,443	-13,959	-15,095
Power Generation	-	-349	-2,252	-3,163	-10,048	-12,441	-13,956	-15,092
Final Energy Consumption	75	319	1,149	1,116	2,053	7,186	8,499	11,543
Industry	61	282	1,110	1,076	1,821	7,164	8,486	11,527
Transport	14	1	0	-	-	-	-	-
Residential & Commercial	-	-	-	2	17	21	13	16
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	30,739	30,196	38,632	41,784	49,852	49,339	49,041	46,672
Indigenous Production	76,731	64,984	70,733	72,904	68,981	53,388	48,137	48,922
Import	4,387	4,313	6,085	9,107	10,660	19,791	20,471	15,768
Export	-50,379	-39,102	-38,186	-40,227	-29,789	-23,841	-19,567	-18,019
Transformation Sector	-25,704	-26,632	-36,471	-39,246	-49,298	-48,787	-44,642	-44,402
Petroleum Refineries	-25,704	-26,632	-36,471	-39,246	-49,298	-48,787	-44,642	-44,402
Petroleum Products								
Primary Energy Supply	-4,990	-7,173	-8,202	-7,875	1,171	9,231	13,873	11,634
Import	2,955	385	3,251	6,107	10,471	21,321	21,235	17,462
Export	-7,637	-7,494	-11,125	-13,576	-8,942	-12,090	-7,363	-5,829
Transformation Sector	24,640	25,001	36,586	41,497	45,445	39,474	37,089	37,131
Power Generation	-1,690	-2,929	-3,764	-2,676	-4,501	-8,214	-9,259	-8,709
Petroleum Refineries	25,865	27,941	38,041	41,588	48,490	47,688	46,348	45,840
Final Energy Consumption	18,052	18,184	24,681	33,260	44,061	48,138	45,952	43,021
Industry	4,751	4,914	6,317	8,739	10,948	12,019	10,444	8,717
Transport	6,221	7,084	11,203	16,661	21,432	22,605	25,852	25,507
Residential & Commercial	6,687	5,629	6,379	7,715	10,873	9,716	9,656	8,797
Agriculture	-	-	-	-	-	-	-	-
Natural Gas								
Primary Energy Supply	4,827	11,307	16,889	38,832	34,048	42,748	37,710	38,352
Indigenous Production	14,828	28,975	41,040	68,017	65,798	69,693	68,663	67,942
Import	-	-	-	-	-	-	-	-
Export	-10,002	-17,668	-24,151	-29,185	-31,750	-26,945	-30,953	-29,590
Transformation Sector	-1,278	-4,622	-5,616	-18,190	-9,590	-10,994	-11,300	-11,659
Power Generation	-	-91	-249	-9,515	-10,468	-4,427	-3,423	-3,752
Final Energy Consumption	2,326	4,385	5,504	7,831	8,089	14,682	11,093	10,657
Industry	1,664	2,313	2,862	4,951	4,407	14,628	11,049	10,609
Transport	-	-	1	13	20	12	5	5
Residential & Commercial	107	7	5	7	28	42	39	43
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	855	1,810	3,245	7,889	10,561	10,334	10,952	11,447
Thermal	529	1,112	2,310	6,754	9,699	9,502	10,027	10,626
Hydro	325	698	935	1,136	862	832	925	821
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	624	1,428	2,624	7,065	9,365	9,117	9,205	9,684
Industry	280	776	1,478	4,913	5,482	3,468	3,651	3,751
Transport	-	-	1	-	-	5	-	-
Residential & Commercial	344	421	749	1,905	3,538	5,135	5,197	5,554
Agriculture	-	-	-	-	-	-	-	-

Major Economic Indicators of Indonesia

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	148.30	163.04	178.23	192.75	206.27	217.59	220.56	223.04
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	58.82	77.35	109.15	159.38	165.02	196.69	207.87	219.27
Real Term (Billions of 2000 Price and 2000 PPP)	177.65	233.62	329.66	481.37	498.40	594.06	627.82	662.25
Nominal (Billions of Current USD)	78.01	87.34	114.43	202.13	165.02	256.84	286.97	364.46
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	397	474	612	827	800	904	942	983
Real Term (2000 Price and 2000 PPP)	1,198	1,433	1,850	2,497	2,416	2,730	2,847	2,969
Nominal (Current USD)	526	536	642	1,049	800	1,180	1,301	1,634
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	48,913	96,997	210,866	454,514	1,389,770	2,295,826	2,784,962	3,338,196
Household Final Consumption Expenditure, etc.	25,594	57,201	119,802	279,876	856,798	1,532,888	1,785,597	2,092,655
General Government Final Consumption Expenditure	5,148	10,893	18,649	35,584	90,780	191,056	224,981	288,081
Gross Fixed Capital Formation	10,550	22,041	59,758	129,217	275,881	515,381	657,625	800,083
Stock Change	1,223	5,077	4,911	15,900	33,283	36,911	27,684	19,552
Exports of Goods and Services	16,718	21,534	53,409	119,593	569,490	739,639	935,960	1,030,779
Imports of Goods and Services	9,886	19,835	50,046	125,657	423,318	632,376	816,405	870,091
Real GDP & its Components (Billions of 2000 IDR) *1								
Gross Domestic Product	495,380	651,453	919,241	1,342,285	1,389,769	1,656,517	1,750,657	1,846,655
Household Final Consumption Expenditure, etc.	226,405	400,070	480,808	726,185	856,798	1,004,109	1,043,805	1,076,928
General Government Final Consumption Expenditure	50,448	65,867	84,219	97,353	90,780	126,249	134,626	147,563
Gross Fixed Capital Formation	99,861	125,206	214,557	346,858	275,881	354,866	393,177	404,606
Stock Change	-5,472	-7,196	-17,177	-24,459	33,283	25,099	18,653	13,095
Exports of Goods and Services	275,262	204,959	301,744	512,137	569,490	680,621	791,996	864,504
Imports of Goods and Services	167,806	215,706	255,995	488,016	423,318	543,184	635,920	684,077
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	25.1	22.4	19.4	15.1	15.6	14.9	14.5	14.1
Industry	37.4	37.1	41.0	44.0	45.9	44.5	44.1	43.8
Services, etc.	36.5	39.5	39.1	40.8	38.5	40.6	41.4	42.1
Manufacturing Production Index (2000=100)	29.1	38.6	67.6	119.8	100.0	117.4	118.9	116.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.909	18.590	25.675	45.417	65.403	70.767	86.996	103.487
Imports, c.i.f.	10.834	10.262	21.837	40.630	43.595	54.877	75.533	80.333
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	5.822	5.352	6.533	25.042	20.152	17.534	29.660
Current Account	N.A.	-1.923	-2.988	-6.431	7.992	1.563	0.278	10.836
Overall Balance	0.000	0.510	2.251	1.573	3.926	-2.198	-2.111	11.370
Foreign Exchange Rate (IDR/USD) *1	626.99	1,110.58	1,842.81	2,248.61	8,421.77	8,938.85	9,704.74	9,159.32
Purchasing Power Parity (IDR/International Dollar) *1	509.92	595.98	783.84	1,025.29	2,788.47	3,531.27	3,934.26	4,332.63
Price Indices								
GDP Deflator (2000=100) *3	9.9	14.9	22.9	33.9	100.0	138.6	159.1	180.8
Wholesale Price Index (2000=100) *2	10.1	16.5	25.2	33.9	100.0	131.0	151.0	171.7
Consumer Price Index (2000=100) *2	12.6	20.1	28.7	44.0	100.0	141.3	156.0	176.5
Growth Rate (%) *3								
Real GDP	8.72	3.48	9.00	8.40	4.92	5.03	5.68	5.48
Population	2.09	1.85	1.81	1.42	1.32	1.36	1.37	1.13
Price								
Wholesale Price Index	26.8	5.0	10.0	11.4	12.5	7.4	15.3	13.7
Consumer Price Index	18.0	4.7	7.8	9.4	3.7	6.2	10.5	13.1

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

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

Energy Price of Indonesia in 2006

Currency Exchange Rate

	Local currency / US Dollar	
Currency Exchange Rate		
Local Currency Unit		

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	US\$ / t	121.633	Other bituminous coal	US\$ / t	33.070	Other bituminous coal	Rp / SBM	78,522.7
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		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil			Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil	US\$ / bbl	64.271	Crude Oil	US\$ / bbl	
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG			Ethane			Ethane		
Naphtha			LPG	US\$ / ribu ton	487.115	LPG	Rp / SBM	
Motor Gasoline			Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline			Motor Gasoline	Rp / SBM	772,200.8
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline	Rp / SBM	2,346,373.5
Kerosene Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel	Rp / SBM	974,884.1
Gas/Diesel Oil			Other Kerosene			Other Kerosene	Rp / SBM	337,416.1
Fuel Oil			Gas/Diesel Oil			Gas/Diesel Oil	Rp / SBM	662,854
White Spirit SBP			Fuel Oil			Fuel Oil		
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Natural Gas			Natural Gas		
Compressed Natural Gas			Liquefied Natural Gas	US\$ / MMBTU	7.723	Liquefied Natural Gas		
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Other Energy Products			Electricity			Industrial	Rp / kWh	621.2
			Other Energy Products			Commercial	Rp / kWh	669.4
						Residential	Rp / kWh	567.7
						Others		
						Other Energy Products		

3.8 Japan

Energy Balance Table of Japan in 2006

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	685	-	779	-	-	-	-	-	-
2 Import	106,337	1,187	210,313	50,047	1,809	21,625	2,025	973	276
3 Export	-	-1,321	-	-9,171	-230	-4	-975	-295	-3,517
4 International Marine Bunkers	-	-	-	-6,306	-	-	-	-	-34
5 Stock Changes	-528	-	-1,007	-1,474	-49	201	-15	-831	-32
6 Total Primary Energy Supply	106,494	-135	210,085	33,096	1,529	21,822	1,035	-153	-3,306
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-96,195	28,429	-209,265	183,295	45,450	15,435	10,115	22,077	34,056
8.1 Main Activity Producer	-47,318	-4,522	-6,557	-10,354	-	-	-	-74	-129
8.2 Autoproducers	-9,113	-2,952	-	-11,193	-	-1,323	-	-66	-
8.3 Gas Processing	-	-14	-	-1,143	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-208,379	212,320	45,450	22,546	10,115	22,217	34,185
8.5 Coal Transformation	-39,765	35,917	-	-548	-	-	-	-	-
8.6 Other Transformation	-	-	5,671	-5,788	-	-5,788	-	-	-
9. Loss & Own Use	-163	-3,175	-	-12,808	-	-48	-	-140	-47
10. Discrepancy	4,478	-2,976	-819	153	793	-1,575	258	52	615
11 Total Final Energy Consumption	14,614	22,144	-	203,736	47,773	35,635	11,409	21,836	31,318
12 Industry Sector	14,614	21,160	-	72,185	108	35,635	-	4,777	3,705
13 Transport Sector	-	-	-	91,652	47,665	-	11,409	-	25,889
14 Other Sector	-	984	-	39,899	-	-	-	17,059	1,723
14.1 Residential & Commercial	-	984	-	32,565	-	-	-	14,815	195
14.2 Agriculture	-	-	-	4,955	-	-	-	2,121	842
14.3 Other	-	-	-	2,379	-	-	-	123	687
15 Non-energy	-	-	-	5,081	-	-	-	-	-

Energy Balance Table of Japan in 2005

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	567	-	794	-	-	-	-	-	-
2 Import	108,797	1,806	212,130	49,604	1,926	21,865	2,221	816	415
3 Export	-	-1,099	-	-8,606	-340	-6	-711	-297	-3,170
4 International Marine Bunkers	-	-	-	-6,177	-	-	-	-	-34
5 Stock Changes	745	-	1,749	1,586	119	-105	-24	644	100
6 Total Primary Energy Supply	110,109	707	214,674	36,407	1,705	21,754	1,486	1,163	-2,689
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-96,805	27,959	-214,624	186,316	45,955	15,746	9,261	23,187	34,219
8.1 Main Activity Producer	-48,922	-4,368	-5,916	-11,560	-	-	-	-196	-125
8.2 Autoproducers	-9,309	-2,953	-	-12,268	-	-1,392	-	-67	-
8.3 Gas Processing	-	-56	-	-1,608	-	-12	-	-	-
8.4 Petroleum Refineries	-	-	-213,946	217,666	45,955	22,519	9,261	23,450	34,344
8.5 Coal Transformation	-38,574	35,336	-	-545	-	-	-	-	-
8.6 Other Transformation	-	-	5,237	-5,368	-	-5,368	-	-	-
9. Loss & Own Use	-142	-3,043	-	-12,997	-	-38	-	-72	-49
10. Discrepancy	1,390	-3,785	-49	1,508	721	-890	409	247	482
11 Total Final Energy Consumption	14,552	21,838	-	211,234	48,381	36,573	11,157	24,524	31,964
12 Industry Sector	14,552	20,909	-	75,635	103	36,573	-	6,142	3,867
13 Transport Sector	-	-	-	92,515	48,278	-	11,157	-	26,245
14 Other Sector	-	929	-	43,085	-	-	-	18,382	1,852
14.1 Residential & Commercial	-	929	-	34,740	-	-	-	15,846	196
14.2 Agriculture	-	-	-	5,623	-	-	-	2,401	956
14.3 Other	-	-	-	2,721	-	-	-	135	700
15 Non-energy	-	-	-	5,219	-	-	-	-	-

Energy Balance Table of Japan in 2006 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	3,061	8,230	79,298	3,659	7,979	-	-	103,691	
3,777	16,358	-	-	3,204	73,004	-	-	-	-	-	-	440,888	
-3,202	-79	-	-	-870	-	-	-	-	-	-	-	-10,492	
-6,257	-	-	-	-16	-	-	-	-	-	-	-	-6,306	
-419	-324	-	-	-5	-26	-	-	-	-	-	-	-3,036	
-6,100	15,956	-	-	2,312	76,039	8,230	79,298	3,659	7,979	-	-	524,745	
-	-	-	-	-	-	-	-	-	-	-	-	-	
36,702	3,792	8,227	-	7,441	-46,929	-8,230	-79,298	-3,091	-8,491	99,969	673	-139,133	
-9,642	-508	-	-	-	-44,941	-7,534	-79,298	-2,701	-1,390	83,703	673	-120,239	
-8,423	-91	-1,084	-	-207	-3,279	-695	-	-391	-7,101	16,266	-	-18,458	
-	-1,143	-0	-	-	1,291	-	-	-	-	-	-	134	
54,767	5,534	9,311	-	8,195	-	-	-	-	-	-	-	3,941	
-	-	-	-	-548	-	-	-	-	-	-	-	-4,395	
-	-	-	-	-	-	-	-	-	-	-	-	-117	
-2,004	-697	-8,111	-	-1,761	-1,952	-	-	-	-	-11,166	-	-29,264	
-410	645	-116	-	-111	24	-0	-	-	3,043	781	-89	4,594	
28,187	19,697	-	-	7,881	27,182	-	-	568	2,531	89,583	584	360,941	
12,033	8,965	-	-4,307	6,962	12,053	-	-	-	2,502	37,794	-	160,308	
4,658	1,254	-	-775	776	-	-	-	-	-	1,852	-	93,504	
11,496	9,477	-	-136	143	15,128	-	-	568	29	49,937	584	107,129	
7,935	9,477	-	-	143	15,128	-	-	568	29	49,612	584	99,470	
1,993	-	-	-	-	-	-	-	-	-	325	-	5,280	
1,569	-	-	-136	-	-	-	-	-	-	-	-	2,379	
-	-	-	-	5,081	-	-	-	-	-	-	-	5,081	

Energy Balance Table of Japan in 2005 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	2,855	7,372	76,366	3,745	7,964	-	-	99,662	
3,692	15,418	-	-	3,252	68,070	-	-	-	-	-	-	440,407	
-3,163	-5	-	-	-913	-	-	-	-	-	-	-	-9,705	
-6,129	-	-	-	-15	-	-	-	-	-	-	-	-6,177	
265	577	-	-	10	-12	-	-	-	-	-	-	4,068	
-5,335	15,989	-	-	2,334	70,913	7,372	76,366	3,745	7,964	-	-	528,255	
-	-	-	-	-	-	-	-	-	-	-	-	-	
38,628	3,431	8,379	-	7,510	-46,401	-7,372	-76,366	-3,176	-8,463	99,064	680	-139,188	
-10,761	-479	-	-	-	-45,108	-6,835	-76,366	-2,770	-1,398	82,738	680	-119,825	
-9,363	-80	-1,121	-	-244	-3,082	-537	-	-406	-7,066	16,326	-	-19,294	
-	-1,596	-0	-	-	1,789	-	-	-	-	-	-	124	
58,753	5,585	9,500	-	8,299	-	-	-	-	-	-	-	3,720	
-	-	-	-	-545	-	-	-	-	-	-	-	-3,783	
-	-	-	-	-	-	-	-	-	-	-	-	-131	
-2,118	-662	-8,398	-	-1,660	-2,137	-	-	-	-	-11,610	-	-29,929	
70	580	19	-	-130	2,383	-0	-	-	2,996	420	-83	4,780	
31,245	19,338	-	-	8,054	24,758	-	-	569	2,496	87,874	597	363,919	
13,211	8,597	-	-4,711	7,142	9,998	-	-	-	2,467	36,968	-	160,530	
4,795	1,264	-	-782	775	-	-	-	-	-	1,851	-	94,366	
13,238	9,477	-	-140	136	14,759	-	-	569	29	49,055	597	109,023	
9,085	9,477	-	-	136	14,759	-	-	569	29	48,724	597	100,348	
2,266	-	-	-	-	-	-	-	-	-	331	-	5,954	
1,887	-	-	-140	-	-	-	-	-	-	-	-	2,721	
-	-	-	-	5,219	-	-	-	-	-	-	-	5,219	

Major Energy Indicators of Japan

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	352,597	365,072	432,546	490,786	509,254	524,844	528,255	524,745
Indigenous Production	48,709	64,769	72,578	94,829	101,967	99,242	99,662	103,691
Import	319,945	311,332	376,440	417,131	424,865	439,994	440,407	440,888
Export	-16,707	-12,480	-14,834	-23,158	-18,018	-6,290	-9,705	-10,492
Final Energy Consumption	252,650	257,526	305,094	339,893	359,974	364,535	363,919	360,941
Industry	131,376	124,842	140,776	150,362	160,749	162,695	160,530	160,308
Transport	52,317	55,640	70,090	81,288	86,933	94,933	94,366	93,504
Residential & Commercial	54,206	62,009	74,657	89,200	95,458	98,093	100,348	99,470
Agriculture	8,175	8,185	11,231	11,292	9,988	5,961	5,954	5,280
Coal, Coal Products								
Primary Energy Supply	63,565	73,023	75,641	82,827	90,989	109,854	110,816	106,359
Indigenous Production	12,522	10,424	5,890	3,593	1,674	684	567	685
Import	51,439	64,305	70,045	81,045	90,986	111,819	110,603	107,524
Export	-1,465	-1,553	-1,039	-1,995	-1,488	-1,473	-1,099	-1,321
Transformation Sector	-20,520	-28,694	-32,516	-41,222	-49,618	-65,286	-68,846	-67,766
Power Generation	-10,689	-20,221	-24,751	-33,953	-44,901	-62,586	-65,552	-63,905
Final Energy Consumption	37,439	38,907	39,154	37,618	39,318	37,518	36,391	36,758
Industry	36,446	37,739	38,389	36,578	38,414	36,538	35,461	35,773
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	992	1,168	765	1,040	904	981	929	984
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	219,555	174,713	200,317	234,712	218,284	209,999	214,674	210,085
Indigenous Production	426	547	554	758	642	725	794	779
Import	219,405	173,672	200,267	234,050	216,923	210,520	212,130	210,313
Export	-	-	-	-	-	-	-	-
Transformation Sector	-216,698	-172,023	-199,036	-231,024	-218,532	-209,675	-214,624	-209,265
Petroleum Refineries	-202,533	-160,698	-180,435	-215,641	-210,772	-209,658	-213,946	-208,379
Petroleum Products								
Primary Energy Supply	14,099	31,312	48,789	32,742	37,546	40,403	36,407	33,096
Import	29,468	41,114	64,444	52,010	54,172	50,898	49,604	50,047
Export	-15,242	-10,927	-13,795	-21,163	-16,529	-4,818	-8,606	-9,171
Transformation Sector	156,639	127,899	141,230	178,448	187,346	183,929	186,316	183,295
Power Generation	-42,852	-27,681	-33,288	-29,361	-24,516	-22,728	-23,828	-21,547
Petroleum Refineries	203,921	159,102	178,475	211,914	215,580	213,773	217,666	212,320
Final Energy Consumption	158,787	153,149	183,505	205,895	211,417	211,720	211,234	203,736
Industry	65,073	55,111	63,618	71,062	74,943	77,454	75,635	72,185
Transport	51,008	54,251	68,395	79,465	85,058	93,068	92,515	91,652
Residential & Commercial	28,079	29,000	32,223	36,709	35,007	32,717	34,740	32,565
Agriculture	8,054	7,935	10,930	10,908	9,564	5,628	5,623	4,955
Natural Gas								
Primary Energy Supply	21,748	34,204	43,479	51,975	64,940	69,288	70,913	76,039
Indigenous Production	2,115	1,962	1,803	1,948	2,157	2,533	2,855	3,061
Import	19,633	32,242	41,684	50,027	62,784	66,757	68,070	73,004
Export	-	-	-	-	-	-	-	-
Transformation Sector	-11,602	-22,043	-28,790	-33,261	-42,175	-45,904	-46,401	-46,929
Power Generation	-15,892	-25,981	-32,457	-37,355	-45,970	-48,030	-48,190	-48,220
Final Energy Consumption	9,228	11,274	14,055	18,479	22,242	25,147	24,758	27,182
Industry	2,180	2,872	3,977	6,471	8,618	9,661	9,998	12,053
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	7,047	8,402	10,078	12,008	13,624	15,486	14,759	15,128
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	48,677	56,805	71,693	82,828	92,239	96,879	99,064	99,969
Thermal	19,325	9,758	12,842	683	1,432	13,511	15,326	12,441
Hydro	7,828	7,435	7,827	7,124	7,479	8,871	7,372	8,230
Nuclear	21,523	39,612	51,025	75,021	83,328	74,497	76,366	79,298
Final Energy Consumption	44,024	50,353	64,052	73,825	82,912	86,526	87,874	89,583
Industry	25,216	26,475	31,971	33,823	36,289	36,614	36,968	37,794
Transport	1,309	1,389	1,696	1,823	1,875	1,865	1,851	1,852
Residential & Commercial	17,395	22,266	30,115	37,876	44,420	47,715	48,724	49,612
Agriculture	104	223	270	304	328	333	331	325

Major Economic Indicators of Japan

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	116.78	120.75	123.54	125.44	126.87	127.76	127.77	127.76
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	2,800.61	3,261.85	4,122.34	4,445.37	4,667.45	4,885.07	4,978.24	5,087.77
Real Term (Billions of 2000 Price and 2000 PPP)	1,931.07	2,249.10	2,842.43	3,065.16	3,218.29	3,368.34	3,432.59	3,508.10
Nominal (Billions of Current USD)	1,055.26	1,346.80	3,018.27	5,247.61	4,667.45	4,605.94	4,549.18	4,368.46
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	23,981	27,012	33,369	35,439	36,789	38,236	38,962	39,824
Real Term (2000 Price and 2000 PPP)	16,536	18,625	23,009	24,435	25,367	26,364	26,865	27,459
Nominal (Current USD)	9,036	11,153	24,432	41,834	36,789	36,051	35,604	34,194
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	239,271	321,261	437,023	493,588	502,990	498,328	501,403	508,049
Household Final Consumption Expenditure, etc.	129,364	173,007	229,538	271,656	282,772	284,428	286,589	N.A.
General Government Final Consumption Expenditure	33,616	44,935	58,574	74,663	84,942	89,468	90,684	N.A.
Gross Fixed Capital Formation	77,058	90,164	142,233	138,089	126,634	113,159	115,974	N.A.
Stock Change	1,439	2,106	2,539	2,222	1,326	1,647	1,200	N.A.
Exports of Goods and Services	32,817	46,177	45,863	45,230	55,256	66,286	71,913	N.A.
Imports of Goods and Services	35,036	35,137	41,690	38,272	47,940	56,660	64,957	N.A.
Real GDP & its Components (Billions of 2000 JPY) *1								
Gross Domestic Product	301,809	351,515	444,246	479,058	502,990	526,442	536,483	548,286
Household Final Consumption Expenditure, etc.	169,091	196,003	242,432	271,491	282,772	296,442	301,130	N.A.
General Government Final Consumption Expenditure	44,503	53,095	62,783	74,041	84,942	93,390	94,968	N.A.
Gross Fixed Capital Formation	83,294	90,372	135,213	130,343	126,634	120,379	123,321	N.A.
Stock Change	867	1,430	1,872	1,911	1,326	1,786	1,206	N.A.
Exports of Goods and Services	22,833	31,460	35,988	42,043	55,256	68,795	73,602	N.A.
Imports of Goods and Services	17,668	19,547	33,685	39,918	47,940	54,684	57,867	N.A.
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.1	2.9	2.4	1.7	1.8	1.5	1.5	N.A.
Industry	36.6	35.7	37.0	33.3	32.4	31.2	31.2	N.A.
Services, etc.	60.3	61.5	60.6	64.9	65.7	67.1	67.2	N.A.
Industrial Production Index (2000=100) *2	68.1	80.6	100.4	95.5	100.0	99.7	101.2	105.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	130.441	177.164	287.581	443.116	479.249	565.675	594.905	649.931
Imports, c.i.f.	141.296	130.488	235.368	335.882	379.511	454.542	514.922	579.574
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.130	55.292	69.283	131.787	116.716	132.134	93.958	81.303
Current Account	-10.750	51.129	44.078	111.044	119.660	172.059	165.783	170.517
Overall Balance	5.026	-0.500	-9.090	58.611	48.955	160.854	22.325	31.982
Foreign Exchange Rate (JPY/USD) *1	226.74	238.54	144.79	94.06	107.77	108.19	110.22	116.30
Purchasing Power Parity (JPY/International Dollar) *1	229.47	205.04	188.41	174.86	156.29	135.18	129.55	124.48
Price Indices								
GDP Deflator (2000=100) *3	79.3	91.4	98.4	103.0	100.0	94.7	93.5	92.7
Wholesale Price Index (2000=100) *2	113.4	114.0	108.2	104.0	100.0	96.1	97.7	99.8
Consumer Price Index (2000=100) *2	75.2	86.2	92.1	98.5	100.0	98.1	97.8	98.1
Growth Rate (%) *3								
Real GDP	2.82	5.08	5.20	1.96	2.86	2.74	1.91	2.20
Population	0.79	0.61	0.34	0.38	0.17	0.03	0.01	-0.01
Price								
Wholesale Price Index	14.9	-0.8	1.5	-0.8	0.0	1.3	1.7	2.2
Consumer Price Index	7.8	2.0	3.1	-0.1	-0.7	0.0	-0.3	0.2

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

Note : N.A. shows "not available"
 : JPY shows Yen, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.9 Republic of Korea

Energy Balance Table of Republic of Korea in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	1,210	-	571	2,111	678	320	-	-	-
2 Import	50,173	204	122,773	22,876	-	16,021	-	45	266
3 Export	-	-	-2	-38,978	-2,490	-3,550	-8,380	-636	-12,625
4 International Marine Bunkers	-	-	-	-9,914	-	-	-	-	-1,049
5 Stock Changes	1,022	-	-1,485	-1,011	-82	149	-75	-330	-383
6 Total Primary Energy Supply	52,406	204	121,857	-24,916	-1,894	12,941	-8,455	-922	-13,791
7 Transfers	-	-	218	195	12	30	99	-96	27
8 Total Transformation Sector	-48,576	4,457	-129,076	120,653	9,316	22,946	12,802	5,502	33,541
8.1 Main Activity Producer	-32,183	-	-	-4,543	-	-206	-	-129	-28
8.2 Autoproducers	-1,555	-2,369	-	-506	-	-	-	-17	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-129,124	125,983	9,316	23,152	12,802	5,653	33,571
8.5 Coal Transformation	-14,838	6,826	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	48	-281	-	-	-	-6	-2
9. Loss & Own Use	-	-792	-33	-4,827	-	-23	-	-13	-24
10. Discrepancy	624	-1	7,034	-8,390	70	-7,406	-28	-194	19
11 Total Final Energy Consumption	4,453	3,868	-	82,714	7,504	28,489	4,419	4,277	19,772
12 Industry Sector	4,453	2,764	-	39,689	-	28,489	2	399	1,183
13 Transport Sector	-	-	-	32,400	7,504	-	3,963	13	15,479
14 Other Sector	-	1,104	-	10,625	-	-	454	3,865	3,109
14.1 Residential & Commercial	-	1,104	-	7,420	-	-	2	3,513	886
14.2 Agriculture	-	-	-	1,283	-	-	-	332	830
14.3 Other	-	-	-	1,922	-	-	452	20	1,393
15 Non-energy	-	-	-	39,720	-	34,721	-	37	2

Energy Balance Table of Republic of Korea in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	1,214	-	534	2,030	630	53	-	-	-
2 Import	46,680	222	117,353	21,457	6	15,660	-	56	307
3 Export	-	-	-3	-35,579	-1,821	-3,263	-7,324	-601	-11,918
4 International Marine Bunkers	-	-	-	-9,905	-1	-	-	-	-1,105
5 Stock Changes	1,356	-	936	1,369	57	-137	226	251	484
6 Total Primary Energy Supply	49,249	222	118,820	-20,629	-1,129	12,313	-7,098	-294	-12,232
7 Transfers	-	-	75	56	16	-	29	-98	12
8 Total Transformation Sector	-45,331	4,183	-126,099	117,538	9,260	22,113	11,454	5,944	32,598
8.1 Main Activity Producer	-29,226	-	-	-4,786	-	-195	-	-91	-18
8.2 Autoproducers	-1,460	-2,392	-	-638	-	-	-	-17	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-126,111	123,157	9,260	22,307	11,454	6,052	32,623
8.5 Coal Transformation	-14,644	6,575	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	12	-195	-	-	-	-	-7
9. Loss & Own Use	-	-107	-	-4,853	-	-25	-	-8	-14
10. Discrepancy	-30	0	7,204	-8,994	-690	-7,037	-42	-140	-552
11 Total Final Energy Consumption	3,888	4,298	-	83,118	7,457	27,364	4,343	5,404	19,813
12 Industry Sector	3,888	3,344	-	38,366	-	27,364	2	335	960
13 Transport Sector	-	-	-	31,933	7,457	-	3,707	16	15,373
14 Other Sector	-	954	-	12,819	-	-	634	5,053	3,480
14.1 Residential & Commercial	-	954	-	9,205	-	-	2	4,634	1,224
14.2 Agriculture	-	-	-	1,429	-	-	-	405	898
14.3 Other	-	-	-	2,185	-	-	632	14	1,357
15 Non-energy	-	-	-	37,480	-	32,955	-	36	7

Energy Balance Table of Republic of Korea in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	484	183	-	445	393	449	38,764	62	2,397	-	-	45,957	
1,267	5,277	-	-	-	29,550	-	-	-	28	-	-	225,605	
-8,398	-75	-	-	-2,824	-	-	-	-	-	-	-	-38,980	
-8,865	-	-	-	-	-	-	-	-	-	-	-	-9,914	
-204	-32	-	-	-55	-1,249	-	-	-	-	-	-	-2,723	
-16,199	5,655	183	-	-2,433	28,694	449	38,764	62	2,425	-	-	219,945	
226	-58	-	-	-44	-	-	-	-	-	-	-	414	
25,248	3,501	2,149	-	5,647	-12,607	-449	-38,764	-23	-422	34,740	4,513	-65,554	
-3,748	-	-	-	-432	-11,933	-449	-38,764	-20	-54	32,629	1,406	-53,912	
-490	-	-	-	-	-747	-	-	-3	-337	2,111	3,107	-298	
-	-	-	-	-	73	-	-	-	-	-	-	73	
29,561	3,501	2,149	-	6,276	-	-	-	-	-	-	-	-3,141	
-	-	-	-	-	-	-	-	-	-	-	-	-8,012	
-76	-	-	-	-197	-	-	-	-	-31	-	-	-264	
-2,353	-	-2,332	-	-83	-415	-	-	-	-	-3,078	-91	-9,236	
-501	-373	-	-	23	628	-	-	-	-0	275	-17	152	
6,420	8,725	-	-	3,109	16,300	-	-	39	2,003	31,936	4,405	145,720	
3,971	2,037	-	-2,200	1,972	4,366	-	-	1	1,621	16,294	2,856	72,045	
481	4,341	-	-595	619	452	-	-	-	-	218	-	33,071	
771	2,346	-	-63	80	11,482	-	-	39	382	15,425	1,549	40,605	
614	2,324	-	-	80	11,457	-	-	39	382	14,797	1,549	36,747	
110	10	-	-	-	25	-	-	-	-	482	-	1,790	
46	11	-	-63	-	-	-	-	-	-	146	-	2,068	
76	1,674	-	-	3,211	-	-	-	-	-	-	-	39,720	

Energy Balance Table of Republic of Korea in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	451	210	-	685	441	446	38,251	50	2,114	-	-	45,079	
596	4,831	-	-	-	26,112	-	-	-	26	-	-	211,849	
-8,097	-70	-	-	-2,486	-	-	-	-	-	-	-	-35,582	
-8,798	-	-	-	-	-	-	-	-	-	-	-	-9,905	
343	123	-	-	22	863	-	-	-	-	-	-	4,523	
-15,956	5,335	210	-	-1,779	27,415	446	38,251	50	2,141	-	-	215,965	
155	-58	-	-	-	-	-	-	-	-	-	-	131	
25,568	3,631	2,088	-	4,882	-11,076	-446	-38,251	-12	-355	33,484	4,598	-61,768	
-3,821	-	-	-	-662	-10,485	-446	-38,251	-11	-41	31,200	1,535	-50,510	
-621	-	-	-	-	-591	-	-	-2	-306	2,283	3,062	-43	
-	-	-	-	-	-	-	-	-	-	-	-	-	
30,053	3,631	2,088	-	5,689	-	-	-	-	-	-	-	-2,954	
-	-	-	-	-	-	-	-	-	-	-	-	-8,069	
-43	-	-	-	-145	-	-	-	-	-8	-	-	-191	
-2,425	-	-2,299	-	-82	-489	-	-	-	-	-3,021	-89	-8,560	
-232	-236	0	-	-65	136	-	-	0	-0	293	-12	-1,402	
7,109	8,672	-	-	2,957	15,986	-	-	37	1,786	30,756	4,497	144,366	
4,491	1,755	-	-2,853	1,942	4,168	-	-	0	1,465	15,820	2,845	69,897	
568	4,217	-	-497	595	323	-	-	-	-	224	-	32,480	
890	2,700	-	-27	63	11,495	-	-	37	321	14,712	1,652	41,988	
735	2,546	-	-	63	11,470	-	-	37	321	14,110	1,652	37,747	
120	6	-	-	-	24	-	-	-	-	455	-	1,908	
35	148	-	-27	-	-	-	-	-	-	148	-	2,333	
43	1,435	-	-	3,004	-	-	-	-	-	-	-	37,480	

Major Energy Indicators of Republic of Korea

ktoe

	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	38,321	52,892	93,388	148,171	190,908	215,043	215,965	219,945
Indigenous Production	9,215	14,547	22,622	21,382	33,348	40,021	45,079	45,957
Import	29,598	43,008	73,840	150,740	206,326	216,174	211,849	225,605
Export	-10	-3,567	-3,730	-15,608	-40,846	-32,142	-35,582	-38,980
Final Energy Consumption	35,685	43,496	65,068	107,593	130,752	143,113	144,366	145,720
Industry	15,567	17,822	25,798	46,238	62,742	68,804	69,897	72,045
Transport	4,672	6,375	14,928	27,007	30,481	34,747	32,480	33,071
Residential & Commercial	12,956	17,403	21,593	28,285	32,386	35,259	37,747	36,747
Agriculture	17	846	1,679	2,946	3,665	1,947	1,908	1,790
Coal, Coal Products								
Primary Energy Supply	12,539	21,542	25,558	26,611	39,448	50,088	49,471	52,610
Indigenous Production	8,139	9,851	7,576	2,465	1,790	1,368	1,214	1,210
Import	4,689	12,354	15,725	28,151	38,451	50,248	46,902	50,377
Export	-	-	-	-	-	-	-	-
Transformation Sector	-734	-3,878	-13,163	-17,322	-29,637	-40,627	-41,148	-44,119
Power Generation	-734	-3,878	-5,955	-11,854	-23,576	-33,342	-33,078	-36,107
Final Energy Consumption	11,805	17,043	11,717	7,407	8,351	8,622	8,186	8,322
Industry	3,471	6,166	3,052	6,041	7,785	7,965	7,233	7,218
Transport	2	-	-	-	-	-	-	-
Residential & Commercial	8,332	10,877	8,665	1,365	566	657	954	1,104
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	22,901	27,596	43,245	89,920	126,509	118,049	118,820	121,857
Indigenous Production	-	-	-	-	670	437	534	571
Import	22,901	27,596	42,678	89,250	125,825	116,545	117,353	122,773
Export	-	-	-	-25	-99	-12	-3	-2
Transformation Sector	-22,534	-27,988	-41,841	-91,984	-131,897	-121,279	-126,099	-129,076
Petroleum Refineries	-22,534	-27,988	-41,841	-91,984	-131,897	-121,284	-126,111	-129,124
Petroleum Products								
Primary Energy Supply	1,805	-942	6,790	4,386	-22,362	-15,001	-20,629	-24,916
Import	2,008	3,057	12,733	25,064	24,951	23,436	21,457	22,876
Export	-10	-3,567	-3,730	-15,584	-40,747	-32,130	-35,579	-38,978
Transformation Sector	18,038	22,821	38,825	81,492	118,703	113,138	117,538	120,653
Power Generation	-6,639	-4,249	-4,274	-9,394	-6,402	-5,658	-5,424	-5,049
Petroleum Refineries	24,692	27,155	43,100	91,141	125,320	119,025	123,157	125,983
Final Energy Consumption	21,052	22,015	43,821	80,452	84,237	84,864	83,118	82,714
Industry	10,143	8,883	17,419	30,876	35,962	37,408	38,366	39,689
Transport	4,636	6,313	14,841	26,869	30,306	34,306	31,933	32,400
Residential & Commercial	3,800	4,975	8,938	17,142	13,294	9,430	9,205	7,420
Agriculture	-	794	1,553	2,656	3,198	1,504	1,429	1,283
Natural Gas								
Primary Energy Supply	-	-	2,725	8,323	17,011	25,288	27,415	28,694
Indigenous Production	-	-	-	-	-	-	441	393
Import	-	-	2,681	8,261	17,071	25,920	26,112	29,550
Export	-	-	-	-	-	-	-	-
Transformation Sector	13	75	-2,037	-4,168	-5,757	-10,595	-11,076	-12,607
Power Generation	-	-	-2,037	-4,168	-5,757	-10,595	-11,076	-12,680
Final Energy Consumption	13	75	674	3,996	10,928	14,514	15,986	16,300
Industry	-	13	73	532	2,882	3,941	4,168	4,366
Transport	-	-	-	-	-	228	323	452
Residential & Commercial	13	62	601	3,464	8,035	10,323	11,470	11,457
Agriculture	-	-	-	-	11	22	24	25
Electricity								
Power Generation	3,203	4,989	9,062	15,812	24,951	31,662	33,484	34,740
Thermal	2,126	311	-5,267	-2,127	-3,928	-2,908	-5,213	-4,473
Hydro	171	315	547	471	482	506	446	449
Nuclear	906	4,363	13,782	17,468	28,396	34,064	38,251	38,764
Final Energy Consumption	2,815	4,363	8,117	14,041	22,628	29,063	30,756	31,936
Industry	1,954	2,760	4,970	8,004	12,934	15,248	15,820	16,294
Transport	34	62	87	138	175	213	224	218
Residential & Commercial	810	1,489	2,935	5,610	9,063	13,042	14,110	14,797
Agriculture	17	52	125	290	456	420	455	482

Major Economic Indicators of Republic of Korea

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	38.12	40.81	42.87	45.09	47.01	48.08	48.29	48.42
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	122.81	178.97	283.56	413.01	511.66	613.64	639.39	671.32
Real Term (Billions of 2000 Price and 2000 PPP)	175.02	255.05	404.10	588.58	729.15	874.48	911.19	956.68
Nominal (Billions of Current USD)	63.83	96.62	263.78	517.12	511.66	680.49	791.43	888.02
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	3,221	4,386	6,615	9,159	10,884	12,762	13,240	13,865
Real Term (2000 Price and 2000 PPP)	4,591	6,250	9,426	13,052	15,511	18,187	18,867	19,759
Nominal (Current USD)	1,674	2,368	6,153	11,468	10,884	14,153	16,388	18,341
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	38,774.80	84,060.50	186,690.90	398,837.71	578,664.23	779,380.67	810,516.10	847,876.61
Household Final Consumption Expenditure, etc.	24,250.60	47,599.90	94,968.00	208,461.61	312,300.59	401,468.81	426,690.71	453,870.30
General Government Final Consumption Expenditure	4,825.40	9,425.70	22,053.70	44,687.00	70,097.70	105,517.00	114,838.20	125,526.90
Gross Fixed Capital Formation	12,491.80	24,186.60	69,233.90	148,819.49	179,907.71	230,216.71	237,239.50	246,191.50
Stock Change	-157.50	1,002.70	800.70	1,410.50	-494.50	6,430.10	6,420.00	6,345.30
Exports of Goods and Services	12,433.00	26,876.10	52,187.30	114,978.10	236,209.70	342,865.49	342,588.00	366,502.81
Imports of Goods and Services	15,496.40	26,379.00	54,194.80	119,336.40	217,979.40	309,647.31	323,466.80	357,154.78
Real GDP & its Components (Billions of 2000 KRW) *1								
Gross Domestic Product	138,898.00	202,407.70	320,696.79	467,099.50	578,664.57	693,995.51	723,126.93	759,234.52
Household Final Consumption Expenditure, etc.	86,397.20	121,937.50	185,862.50	270,628.10	312,300.59	348,067.20	360,720.61	375,901.81
General Government Final Consumption Expenditure	24,615.20	29,372.20	44,754.40	59,127.10	70,097.70	83,895.30	88,120.60	93,267.90
Gross Fixed Capital Formation	35,782.90	52,813.40	114,989.00	181,345.30	179,907.81	203,187.91	208,054.79	214,624.70
Stock Change	205.50	1,603.20	469.20	-1,644.00	-494.60	671.20	21.80	-399.90
Exports of Goods and Services	19,915.00	32,184.10	55,669.90	112,547.00	236,209.59	359,709.42	390,443.50	438,805.20
Imports of Goods and Services	27,350.70	36,123.50	77,742.30	153,631.20	217,979.40	301,718.50	323,604.71	360,331.21
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	11.2	10.3	6.6	5.0	4.3	3.6	3.5	3.3
Industry	28.6	31.2	34.9	34.8	36.2	38.2	38.8	39.3
Services, etc.	53.5	51.4	49.8	49.4	48.3	47.1	46.8	46.4
Industrial Production Index (2000=100) *2	14.2	23.3	42.8	64.5	100.0	126.6	134.6	145.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	17.512	30.282	65.016	125.058	172.267	253.845	284.419	325.465
Imports, c.i.f.	22.292	31.136	69.844	135.119	160.481	224.463	261.238	309.383
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.613	-0.020	-2.461	-4.365	16.954	37.569	32.683	27.905
Current Account	-5.312	-0.795	-2.014	-8.665	12.251	28.174	14.981	5.385
Overall Balance	0.184	0.211	-1.208	7.039	23.790	38.675	19.864	22.090
Foreign Exchange Rate (KRW/USD) *1	607.4325	870.0200	707.7642	771.2733	1,130.9575	1,145.3192	1,024.1167	954.7905
Purchasing Power Parity (KRW/International Dollar) *1	410.3000	473.1121	566.1369	735.8219	793.6096	814.3688	788.9201	761.7676
Price Indices								
GDP Deflator (2000=100) *3	27.9	41.5	58.2	85.4	100.0	112.3	112.1	111.7
Producer Price Index (2000=100)*2	51.7	66.3	71.3	83.2	100.0	107.6	109.9	112.4
Consumer Price Index (2000=100)*2	33.2	46.8	60.9	82.3	100.0	114.7	117.8	120.4
Growth Rate (%) *3								
Real GDP	-1.49	6.80	9.16	9.17	8.49	4.73	4.20	4.99
Population	1.57	0.99	1.15	1.44	0.84	0.49	0.44	0.26
Price								
Producer Price Index	38.9	0.9	4.2	4.7	2.0	6.1	2.1	2.3
Consumer Price Index	28.7	2.5	8.6	4.5	2.3	3.6	2.8	2.2

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

Note : N.A. shows "not available"
 : KRW shows Won, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

Energy Price of Republic of Korea in 2006

Currency Exchange Rate

	Local currency / USD	
Currency Exchange Rate		
Local Currency Unit		Won

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	113.0	Coking Coal			Coking Coal		
Anthracite	USD/ton	80.0	Anthracite			Anthracite		
Other bituminous coal	USD/ton	52.0	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	USD/ton	180.0	Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil	USD/bbl	63.0	Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil			Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG	USD/bbl	47.0	Ethane			Ethane		
Naphtha	USD/bbl	64.0	LPG			LPG	won/kg	1,243.0
Motor Gasoline	USD/bbl		Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline	won/l	1,406.0	Motor Gasoline	won/l	1,492.0
Gasoline Type Jet Fuel		157.0	Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel	USD/bbl		Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene	USD/bbl	76.0	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil	USD/bbl	84.0	Other Kerosene	won/l	852.0	Other Kerosene	won/l	936.0
Fuel Oil	USD/bbl	54.0	Gas/Diesel Oil	won/l	1,186.0	Gas/Diesel Oil	won/l	1,228.0
White Spirit SBP			Fuel Oil			Fuel Oil	won/l	489.0
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas	USD/ton	449.0	Natural Gas			Natural Gas		
Compressed Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas	won/m3	543.0
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Other Energy Products			Electricity			Industrial	won/kwh	62.0
			Other Energy Products			Commercial	won/kwh	98.0
						Residential	won/kwh	94.0
						Others	won/kwh	58.0
						Other Energy Products		

3.10 Malaysia

Energy Balance Table of Malaysia in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	486	-	34,986	2,087	-	-	-	45	99
2 Import	5,829	-	8,043	7,726	3,482	-	-	90	1,273
3 Export	-60	-	-17,330	-9,520	-1,237	-	-	-544	-1,162
4 International Marine Bunkers	-	-	-	-88	-	-	-	-	-64
5 Stock Changes	-234	-	103	351	29	-	-	6	314
6 Total Primary Energy Supply	6,020	-	25,802	556	2,274	-	-	-403	460
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-5,095	-	-24,971	21,795	7,540	-	-	528	8,095
8.1 Main Activity Producer	-5,095	-	-	-787	-	-	-	-	-617
8.2 Autoproducers	-	-	-	-33	-	-	-	-	-33
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-24,971	23,459	7,540	-	-	528	8,745
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-844	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	215	-	-831	11	-152	-	-	-48	-19
11 Total Final Energy Consumption	1,141	-	-	22,361	9,662	-	-	77	8,535
12 Industry Sector	1,141	-	-	5,129	16	-	-	29	3,258
13 Transport Sector	-	-	-	14,689	9,643	-	-	-	5,043
14 Other Sector	-	-	-	2,543	3	-	-	48	234
14.1 Residential & Commercial	-	-	-	1,606	-	-	-	48	-
14.2 Agriculture	-	-	-	238	3	-	-	-	234
14.3 Other	-	-	-	699	-	-	-	-	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Malaysia in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	408	-	36,746	2,325	-	-	-	52	121
2 Import	6,277	-	8,242	7,954	3,889	-	-	119	1,295
3 Export	-42	-	-19,073	-8,417	-784	-	-	-675	-1,717
4 International Marine Bunkers	-	-	-	-59	-	-	-	-	-37
5 Stock Changes	-23	-	884	-404	-6	-	-	-132	-360
6 Total Primary Energy Supply	6,620	-	26,799	1,400	3,100	-	-	-636	-698
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-5,260	-	-24,551	20,774	6,749	-	-	521	8,855
8.1 Main Activity Producer	-5,260	-	-	-573	-	-	-	-	-298
8.2 Autoproducers	-	-	-	-2	-	-	-	-	-2
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-24,551	21,349	6,749	-	-	521	9,155
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	-80	-	-2,247	821	365	-	-	197	509
11 Total Final Energy Consumption	1,280	-	-	22,995	10,214	-	-	82	8,666
12 Industry Sector	1,280	-	-	5,496	60	-	-	31	3,495
13 Transport Sector	-	-	-	15,228	10,152	-	-	-	5,073
14 Other Sector	-	-	-	2,270	2	-	-	51	99
14.1 Residential & Commercial	-	-	-	1,538	-	-	-	51	-
14.2 Agriculture	-	-	-	101	2	-	-	-	99
14.3 Other	-	-	-	632	-	-	-	-	-
15 Non-energy	-	-	-	632	-	-	-	-	-

Energy Balance Table of Malaysia in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	1,624	-	-	319	49,449	554	-	-	-	-	-	87,561	
2,225	308	-	-	348	2,895	-	-	-	-	-	-	24,493	
-2,197	-1,590	-	-	-2,790	-25,957	-	-	-	-	-	-	-52,868	
-24	-	-	-	-	-	-	-	-	-	-	-	-88	
-10	-11	-	-	22	-	-	-	-	-	-	-	220	
-5	331	-	-	-2,101	26,386	554	-	-	-	-	-	59,318	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,762	1,113	9	-	2,749	-17,507	-554	-	-	-	7,721	-	-18,610	
-169	-	-	-	-	-10,773	-554	-	-	-	7,238	-	-9,971	
-	-	-	-	-	-1,208	-	-	-	-	484	-	-758	
-	-	-	-	-	-4,809	-	-	-	-	-	-	-4,809	
1,932	1,117	848	-	2,749	-	-	-	-	-	-	-	-1,512	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-4	-839	-	-	-716	-	-	-	-	-	-	-1,560	
-	-	-	-	-	-784	-	-	-	-	-273	-	-1,057	
126	76	3	-	24	46	-	-	-	-	-180	-	-739	
1,883	1,520	12	-	672	8,142	-	-	-	-	7,268	-	38,912	
1,645	169	12	-	-	6,168	-	-	-	-	3,473	-	15,911	
3	-	-	-	-	105	-	-	-	-	5	-	14,799	
167	1,351	-	-564	672	473	-	-	-	-	3,790	-	6,807	
235	1,324	-	-	-	25	-	-	-	-	3,790	-	5,422	
-	-	-	-	-	-	-	-	-	-	-	-	238	
-68	27	-	-564	672	448	-	-	-	-	-	-	1,147	
-	-	-	-	-	1,844	-	-	-	-	-	-	1,844	

Energy Balance Table of Malaysia in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	1,866	-	-	287	51,992	497	-	-	-	-	-	91,969	
1,741	479	-	-	431	1,213	-	-	-	-	-	-	23,687	
-1,215	-1,785	-	-	-2,242	-26,791	-	-	-	-	-	-	-54,323	
-22	-	-	-	-	-	-	-	-	-	-	-	-59	
-53	9	-	-	138	-	-	-	-	-	-	-	456	
450	569	-	-	-1,385	26,414	497	-	-	-	-	-	61,730	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,501	821	172	-	2,156	-19,189	-497	-	-	-	7,508	-	-21,216	
-275	-	-	-	-	-11,112	-497	-	-	-	7,106	-	-10,337	
-	-	-	-	-	-836	-	-	-	-	403	-	-435	
-	-	-	-	-	-5,822	-	-	-	-	-	-	-5,822	
1,776	821	172	-	2,156	-	-	-	-	-	-	-	-3,203	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-1,419	-	-	-	-	-	-	-1,419	
-	-	-	-	-	-887	-	-	-	-	-256	-	-1,143	
1	118	-163	-	-206	-15	-	-	-	-	-313	-	-1,834	
1,953	1,508	8	-	564	6,322	-	-	-	-	6,940	-	37,536	
1,681	221	8	-	-	4,815	-	-	-	-	3,369	-	14,960	
4	-	-	-	-	86	-	-	-	-	5	-	15,319	
187	1,287	-	-626	564	85	-	-	-	-	3,565	-	5,920	
268	1,219	-	-	-	26	-	-	-	-	3,565	-	5,129	
-	-	-	-	-	-	-	-	-	-	-	-	101	
-81	68	-	-626	564	59	-	-	-	-	-	-	690	
-	68	-	-	564	1,395	-	-	-	-	-	-	2,027	

Major Energy Indicators of Malaysia

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	10,553	14,110	20,972	33,390	51,492	60,293	61,730	59,318
Indigenous Production	16,072	32,137	46,529	62,388	79,473	89,520	91,969	87,561
Import	6,752	6,731	9,708	11,128	16,271	25,063	23,687	24,493
Export	-11,759	-24,945	-35,090	-39,423	-43,637	-54,270	-54,323	-52,868
Final Energy Consumption	6,385	8,612	13,146	22,164	29,697	36,539	37,536	38,912
Industry	2,870	3,489	5,276	8,060	11,401	14,375	14,960	15,911
Transport	2,398	3,377	5,386	7,827	12,070	15,365	15,319	14,799
Residential & Commercial	826	1,123	1,646	2,837	3,867	4,750	5,129	5,422
Agriculture	-	-	-	446	104	87	101	238
Coal, Coal Products								
Primary Energy Supply	53	362	1,355	1,612	2,308	7,451	6,620	6,020
Indigenous Production	-	-	70	85	242	229	408	486
Import	53	362	1,424	1,588	1,943	7,118	6,277	5,829
Export	-	-	-28	-50	-19	-81	-42	-60
Transformation Sector	-	-	-813	-957	-1,495	-5,057	-5,260	-5,095
Power Generation	-	-	-813	-957	-1,495	-5,057	-5,260	-5,095
Final Energy Consumption	53	362	513	712	991	1,239	1,280	1,141
Industry	53	362	513	712	991	1,239	1,280	1,141
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	5,783	7,320	10,024	17,476	24,137	27,072	26,799	25,802
Indigenous Production	13,707	22,187	30,629	35,090	33,835	38,713	36,746	34,986
Import	4,034	2,302	2,244	2,116	7,709	8,123	8,242	8,043
Export	-11,619	-17,338	-22,949	-19,833	-17,254	-19,321	-19,073	-17,330
Transformation Sector	-5,901	-7,579	-9,980	-16,960	-22,164	-25,636	-24,551	-24,971
Petroleum Refineries	-5,901	-7,579	-9,980	-16,960	-22,164	-25,636	-24,551	-24,971
Petroleum Products								
Primary Energy Supply	2,353	2,131	2,454	-191	-1,922	1,345	1,400	556
Import	2,658	4,062	6,031	7,411	6,619	8,974	7,954	7,726
Export	-132	-1,949	-3,413	-7,261	-8,533	-8,898	-8,417	-9,520
Transformation Sector	3,347	5,011	7,425	16,669	21,634	22,271	20,774	21,795
Power Generation	-2,346	-2,519	-2,989	-2,338	-966	-669	-575	-820
Petroleum Refineries	5,693	7,530	10,414	16,686	20,954	22,940	21,349	23,459
Final Energy Consumption	5,550	6,656	9,825	16,142	19,581	22,785	22,995	22,361
Industry	2,432	2,402	3,481	4,945	5,278	5,326	5,496	5,129
Transport	2,398	3,377	5,386	7,822	12,059	15,317	15,228	14,689
Residential & Commercial	429	472	729	999	1,398	1,431	1,538	1,606
Agriculture	-	-	-	446	104	87	101	238
Natural Gas								
Primary Energy Supply	2,237	3,971	6,801	13,960	26,370	23,924	26,414	26,386
Indigenous Production	2,245	9,629	15,487	26,678	44,797	49,046	51,992	49,449
Import	-	-	-	-	-	848	1,213	2,895
Export	-8	-5,658	-8,686	-12,264	-17,831	-25,970	-26,791	-25,957
Transformation Sector	-33	-1,659	-2,397	-12,258	-20,971	-22,163	-19,189	-17,507
Power Generation	-33	-539	-1,361	-6,414	-12,110	-10,082	-11,948	-11,982
Final Energy Consumption	35	515	1,093	1,935	3,862	5,877	6,322	8,142
Industry	1	250	452	577	2,327	4,471	4,815	6,168
Transport	-	-	-	5	7	49	86	105
Residential & Commercial	34	47	32	289	16	21	26	25
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	864	1,285	1,979	3,909	5,952	6,811	7,508	7,721
Thermal	744	964	1,636	3,374	5,353	6,310	7,011	7,167
Hydro	120	321	343	535	599	501	497	554
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	747	1,079	1,715	3,375	5,263	6,638	6,940	7,268
Industry	384	475	830	1,826	2,805	3,340	3,369	3,473
Transport	-	-	-	-	4	-	5	5
Residential & Commercial	363	604	885	1,549	2,453	3,298	3,565	3,790
Agriculture	-	-	-	-	-	-	-	-

Major Economic Indicators of Malaysia

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	13.76	15.68	18.10	20.59	23.27	25.19	25.65	26.11
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	25.44	32.63	45.46	71.47	90.32	106.51	111.84	118.44
Real Term (Billions of 2000 Price and 2000 PPP)	60.43	77.52	108.00	169.81	214.58	253.05	265.70	281.38
Nominal (Billions of Current USD)	24.94	31.77	44.02	88.83	90.32	124.75	137.16	156.09
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	1,848	2,081	2,511	3,471	3,881	4,228	4,360	4,535
Real Term (2000 Price and 2000 PPP)	4,391	4,944	5,966	8,246	9,220	10,045	10,358	10,775
Nominal (Current USD)	1,812	2,027	2,432	4,314	3,881	4,952	5,347	5,977
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	54.29	78.89	119.08	222.47	343.22	474.05	519.45	572.56
Household Final Consumption Expenditure, etc.	27.93	41.76	61.69	106.61	145.35	208.57	233.30	257.87
General Government Final Consumption Expenditure	8.68	11.67	16.43	27.53	35.68	59.63	64.28	68.52
Gross Fixed Capital Formation	16.26	22.65	39.35	96.97	87.73	99.34	107.18	119.60
Stock Change	-1.38	-3.05	-0.81	0.12	5.98	9.93	-1.87	-1.06
Exports of Goods and Services	30.77	42.67	88.76	209.32	427.00	546.92	611.08	669.78
Imports of Goods and Services	29.46	38.72	86.24	218.08	358.53	471.05	519.45	572.56
Real GDP & its Components (Billions of 1987 MYR) *1								
Gross Domestic Product	59.30	76.06	105.98	166.63	210.56	248.31	260.72	276.10
Household Final Consumption Expenditure, etc.	35.55	42.53	55.35	81.98	95.37	119.43	129.82	138.98
General Government Final Consumption Expenditure	9.66	11.74	14.22	20.68	23.87	37.11	39.48	41.46
Gross Fixed Capital Formation	17.87	22.95	35.89	81.89	65.19	66.15	69.51	75.04
Stock Change	0.30	-0.75	-0.70	0.09	3.38	4.59	-1.87	-1.25
Exports of Goods and Services	28.26	39.82	76.76	161.86	246.16	291.84	314.84	338.05
Imports of Goods and Services	31.16	39.18	75.54	179.88	223.06	270.37	294.35	319.57
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	21.0	19.1	16.1	10.3	8.9	8.5	8.3	8.2
Industry	36.1	37.2	40.2	43.3	46.5	45.7	45.5	45.3
Services, etc.	42.8	43.8	43.6	46.5	44.6	45.8	46.2	46.4
Industrial Production Index (2000=100) *2	17.1	23.7	40.2	67.5	100.0	122.5	127.5	133.3
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	12.958	15.442	29.452	73.914	98.229	126.511	140.980	160.676
Imports, c.i.f.	10.820	12.301	29.258	77.691	81.963	105.283	114.625	131.152
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.393	3.573	2.525	-0.103	20.827	27.572	33.156	36.698
Current Account	-0.266	-0.600	-0.870	-8.644	8.488	15.079	19.980	25.488
Overall Balance	0.464	1.148	1.951	-1.763	-1.009	22.050	3.620	6.864
Foreign Exchange Rate (MYR/USD) *1	2.1769	2.4830	2.7049	2.5044	3.8000	3.8000	3.7871	3.6682
Purchasing Power Parity (MYR/International Dollar) *1	1.6636	1.4609	1.3511	1.4226	1.5995	1.7117	1.7339	1.7490
Price Indices								
GDP Deflator (1987=100) *3	91.5	103.7	112.4	133.5	163.0	190.9	199.2	207.4
Producer Price Index (2000=100) *2	N.A.	66.8	73.0	86.2	100.0	111.6	119.3	127.3
Consumer Price Index (2000=100) *2	51.4	64.5	70.6	85.7	100.0	105.9	109.0	112.9
Growth Rate (%) *3								
Real GDP	7.44	-1.12	9.01	9.83	8.86	6.80	5.00	5.90
Population	2.42	2.80	2.84	2.56	2.29	1.87	1.83	1.80
Price								
Producer Price Index	N.A.	-2.1	0.9	5.5	3.1	7.0	6.9	6.7
Consumer Price Index	6.7	0.3	2.6	3.5	1.5	1.5	3.0	3.6

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

Note : N.A. shows "not available"
 : MYR shows Malaysian Ringgit, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.11 Mexico

Energy Balance Table of Mexico in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	5,510	-	192,615	-	-	-	-	-	-
2 Import	3,696	205	465	18,873	11,248	230	-	-	3,614
3 Export	-	-2	-104,448	-4,658	-3,591	-	-306	-	-618
4 International Marine Bunkers	-	-	-	-892	-	-	-	-	-788
5 Stock Changes	-1,207	542	-314	23	82	-	-70	2	-159
6 Total Primary Energy Supply	7,999	744	88,318	13,346	7,739	230	-376	2	2,049
7 Transfers	-	-	-12,422	13,601	3,176	-	42	-59	-
8 Total Transformation Sector	-7,890	780	-80,378	55,578	22,106	1,220	3,378	346	17,881
8.1 Main Activity Producer	-6,812	-	-	-13,804	-	-	-	-	-431
8.2 Autoproducers	-	-107	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-80,378	69,382	22,106	1,220	3,378	346	18,311
8.5 Coal Transformation	-1,078	887	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-22	-	-6,206	-325	-	-	-	-726
10. Discrepancy	-0	0	4,482	-2,596	-884	-	-216	-24	-1,832
11 Total Final Energy Consumption	109	1,502	-	73,722	31,812	1,450	2,828	265	17,372
12 Industry Sector	109	1,502	-	11,610	-	1,450	-	20	1,066
13 Transport Sector	-	-	-	50,122	31,812	-	2,828	-	13,808
14 Other Sector	-	-	-	11,991	-	-	-	246	2,498
14.1 Residential & Commercial	-	-	-	9,369	-	-	-	246	97
14.2 Agriculture	-	-	-	2,622	-	-	-	-	2,401
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	6,234	-	1,450	-	-	-

Energy Balance Table of Mexico in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	5,159	-	197,288	-	-	-	-	-	-
2 Import	3,539	247	382	16,821	10,022	872	-	-	2,171
3 Export	-	-1	-105,477	-3,940	-3,275	-	-338	-	-201
4 International Marine Bunkers	-	-	-	-889	-	-	-	-	-787
5 Stock Changes	-561	463	-77	-265	-94	-	37	-2	-212
6 Total Primary Energy Supply	8,138	709	92,116	11,726	6,652	872	-300	-2	972
7 Transfers	-	-	-12,352	13,523	3,158	-	42	-41	-
8 Total Transformation Sector	-8,048	615	-84,586	55,584	21,829	1,040	3,328	345	17,319
8.1 Main Activity Producer	-6,914	-	-	-16,954	-	-	-	-	-439
8.2 Autoproducers	-	-153	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-84,586	72,537	21,829	1,040	3,328	345	17,757
8.5 Coal Transformation	-1,135	768	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-19	-	-6,547	-310	-	-	-	-704
10. Discrepancy	-0	0	4,821	-3,830	-1,666	-80	-428	-37	-1,356
11 Total Final Energy Consumption	90	1,305	-	70,455	29,663	1,832	2,641	265	16,231
12 Industry Sector	90	1,305	-	12,152	-	1,832	-	20	966
13 Transport Sector	-	-	-	46,838	29,663	-	2,641	-	12,924
14 Other Sector	-	-	-	11,465	-	-	-	246	2,341
14.1 Residential & Commercial	-	-	-	9,004	-	-	-	246	91
14.2 Agriculture	-	-	-	2,461	-	-	-	-	2,250
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	6,450	-	1,832	-	-	-

Energy Balance Table of Mexico in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	42,211	2,614	2,832	5,848	8,163	-	-	259,793	
747	3,034	-	-	-	8,291	-	-	-	-	45	-	31,574	
-42	-78	-	-	-23	-296	-	-	-	-	-112	-	-109,515	
-104	-	-	-	-1	-	-	-	-	-	-	-	-892	
124	53	-	-	-9	37	-	-	-	-	-	-	-919	
725	3,009	-	-	-33	50,242	2,614	2,832	5,848	8,163	-67	-	180,041	
-	7,429	-	3,014	-	-	-	-	-	-	-	-	1,179	
2,864	1,146	3,351	-	3,286	-26,741	-2,614	-2,832	-5,755	-1,125	21,470	-	-49,507	
-13,374	-	-	-	-	-19,444	-2,606	-2,832	-5,753	-	19,357	-	-31,895	
-	-	-	-	-	-7,297	-8	-	-2	-1,125	2,113	-	-6,425	
-	-	-	-	-	-	-	-	-	-	-	-	-	
16,237	1,146	3,351	-	3,286	-	-	-	-	-	-	-	-10,996	
-	-	-	-	-	-	-	-	-	-	-	-	-191	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-1,464	-209	-3,351	-	-132	-11,931	-	-	-	-	-5,317	-	-23,477	
-185	418	-	-	127	3,105	-	-	-	-0	326	-	5,317	
1,939	11,793	-	3,014	3,249	14,676	-	-	93	7,038	16,412	-	113,552	
1,843	953	-2,978	1,389	3,249	10,613	-	-	-	1,135	9,551	-	34,520	
81	1,593	-	-	-	1,006	-	-	-	-	102	-	51,230	
-	9,247	-	-	-	1,059	-	-	93	5,903	6,758	-	25,804	
-	9,026	-	-	-	1,059	-	-	93	5,903	6,014	-	22,438	
-	220	-	-	-	-	-	-	-	-	745	-	3,366	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	16	-	3,014	1,755	2,214	-	-	-	-	-	-	8,448	

Energy Balance Table of Mexico in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	36,904	2,379	2,816	6,363	8,321	-	-	259,230	
1,015	2,741	-	-	-	7,440	-	-	-	-	7	-	28,437	
-45	-63	-	-	-18	-211	-	-	-	-	-111	-	-109,741	
-102	-	-	-	-1	-	-	-	-	-	-	-	-889	
52	-42	-	-	-4	21	-	-	-	-	-	-	-419	
920	2,636	-	-	-23	44,154	2,379	2,816	6,363	8,321	-104	-	176,618	
-	7,387	-	2,978	-	-	-	-	-	-	-	-	1,171	
3,937	1,174	3,319	-	3,294	-20,498	-2,379	-2,816	-6,280	-1,129	20,813	-	-48,723	
-16,515	-	-	-	-	-15,841	-2,375	-2,816	-6,278	-	18,832	-	-32,345	
-	-	-	-	-	-4,656	-4	-	-2	-1,129	1,981	-	-3,963	
-	-	-	-	-	-	-	-	-	-	-	-	-	
20,452	1,174	3,319	-	3,294	-	-	-	-	-	-	-	-12,048	
-	-	-	-	-	-	-	-	-	-	-	-	-366	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-1,860	-215	-3,319	-	-140	-11,193	-	-	-	-	-5,256	-	-23,015	
-351	340	-	-	-253	1,324	-	-	-	-0	384	-	2,699	
2,646	11,323	-	2,978	2,878	13,787	-	-	84	7,192	15,837	-	108,750	
2,549	914	-3,120	1,292	2,878	9,754	-	-	-	1,278	9,202	-	33,780	
81	1,530	-	-	-	728	-	-	-	-	102	-	47,668	
-	8,878	-	-	-	1,062	-	-	84	5,914	6,534	-	25,059	
-	8,667	-	-	-	1,062	-	-	84	5,914	5,781	-	21,845	
-	211	-	-	-	-	-	-	-	-	753	-	3,214	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	16	-	2,978	1,625	1,998	-	-	-	-	-	-	8,448	

Major Energy Indicators of Mexico

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	97,158	109,215	124,548	133,036	150,334	165,228	176,618	180,041
Indigenous Production	149,022	192,211	194,791	202,376	226,097	253,623	259,230	259,793
Import	1,792	2,725	6,218	9,000	24,468	25,174	28,437	31,574
Export	-52,824	-82,145	-75,672	-78,023	-97,242	-111,320	-109,741	-109,515
Final Energy Consumption	65,089	77,200	88,416	94,485	100,640	105,343	108,750	113,552
Industry	18,331	26,030	36,994	36,636	38,914	36,002	36,023	36,518
Transport	23,518	24,850	31,426	35,394	38,125	45,143	47,668	51,230
Residential & Commercial	12,963	14,864	17,008	20,100	20,784	21,330	21,845	22,438
Agriculture	2,288	2,206	2,298	2,356	2,817	2,868	3,214	3,366
Coal, Coal Products								
Primary Energy Supply	2,355	3,205	3,467	5,367	6,846	7,132	8,847	8,743
Indigenous Production	1,725	2,901	3,387	4,325	5,415	4,749	5,159	5,510
Import	642	579	235	736	1,699	2,362	3,787	3,900
Export	-50	-60	-6	-1	-4	-1	-1	-2
Transformation Sector	-777	-1,165	-1,836	-3,497	-5,440	-5,837	-7,433	-7,110
Power Generation	-	-906	-1,725	-3,347	-4,782	-5,534	-7,067	-6,919
Final Energy Consumption	1,549	1,625	1,555	1,843	1,378	1,276	1,395	1,611
Industry	1,549	1,612	1,555	1,843	1,378	1,276	1,395	1,611
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	58,310	67,010	83,680	85,029	78,509	87,639	92,116	88,318
Indigenous Production	102,752	142,807	154,112	156,624	171,273	195,021	197,288	192,615
Import	-	-	-	-	352	302	382	465
Export	-43,934	-75,453	-70,432	-71,595	-92,197	-107,168	-105,477	-104,448
Transformation Sector	-53,022	-67,340	-71,824	-73,669	-67,129	-78,969	-84,586	-80,378
Petroleum Refineries	-53,007	-63,633	-71,824	-73,669	-67,129	-78,969	-84,586	-80,378
Petroleum Products								
Primary Energy Supply	-1,507	-4,913	-165	-91	13,324	8,483	11,726	13,346
Import	1,097	2,099	5,541	6,598	19,955	13,158	16,821	18,873
Export	-2,286	-6,612	-5,067	-6,066	-4,821	-4,064	-3,940	-4,658
Transformation Sector	45,570	56,922	50,953	53,048	41,990	54,397	55,584	55,578
Power Generation	-9,784	-12,579	-16,121	-16,886	-22,951	-15,916	-16,954	-13,804
Petroleum Refineries	48,726	59,384	67,074	69,935	64,941	70,313	72,537	69,382
Final Energy Consumption	39,064	47,103	56,735	59,290	62,991	68,293	70,455	73,722
Industry	5,251	7,065	15,752	13,079	14,088	12,481	12,152	11,610
Transport	23,481	24,794	31,357	34,656	37,396	44,440	46,838	50,122
Residential & Commercial	5,491	6,594	7,905	9,776	9,371	9,105	9,004	9,369
Agriculture	1,966	1,780	1,721	1,780	2,137	2,267	2,461	2,622
Natural Gas								
Primary Energy Supply	28,582	32,817	23,150	25,525	33,521	43,700	44,154	50,242
Indigenous Production	35,137	35,362	22,757	24,153	31,350	35,496	36,904	42,211
Import	-	35	392	1,566	2,370	9,348	7,440	8,291
Export	-6,555	-	-	-194	-204	-	-211	-296
Transformation Sector	-10,175	-9,635	-3,432	-5,356	-8,980	-18,521	-20,498	-26,741
Power Generation	-2,837	-1,957	-3,432	-5,356	-8,980	-18,521	-20,498	-26,741
Final Energy Consumption	12,840	14,971	14,166	15,242	15,153	14,134	13,787	14,676
Industry	7,532	12,245	13,355	13,819	13,734	12,473	11,997	12,611
Transport	-	-	-	654	638	605	728	1,006
Residential & Commercial	470	633	811	768	781	1,055	1,062	1,059
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	5,320	7,339	10,675	13,545	17,512	19,269	20,813	21,470
Thermal	3,880	5,096	7,891	8,977	12,520	14,705	15,618	16,024
Hydro	1,439	2,243	2,019	2,367	2,849	2,168	2,379	2,614
Nuclear	-	-	765	2,200	2,142	2,396	2,816	2,832
Final Energy Consumption	4,497	6,051	8,617	10,280	13,943	14,619	15,837	16,412
Industry	2,458	3,383	4,592	5,888	8,551	8,749	9,202	9,551
Transport	37	56	69	84	92	98	102	102
Residential & Commercial	1,680	2,186	2,688	3,732	4,620	5,171	5,781	6,014
Agriculture	322	427	577	575	679	601	753	745

Major Economic Indicators of Mexico

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	67.57	75.47	83.23	91.15	97.97	102.05	103.09	104.22
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	345.56	380.38	413.33	445.85	581.43	618.01	635.32	665.64
Real Term (Billions of 2000 Price and 2000 PPP)	566.30	623.35	677.34	730.63	952.82	1,012.76	1,041.14	1,090.81
Nominal (Billions of Current USD)	194.77	184.49	262.71	286.70	581.43	683.49	767.69	840.01
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	5,114	5,040	4,966	4,892	5,935	6,056	6,163	6,387
Real Term (2000 Price and 2000 PPP)	8,381	8,260	8,139	8,016	9,726	9,924	10,099	10,466
Nominal (Current USD)	2,883	2,445	3,157	3,146	5,935	6,698	7,447	8,060
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	4.47	47.39	738.90	1,840.43	5,497.74	7,713.80	8,366.21	9,155.49
Household Final Consumption Expenditure, etc.	2.91	30.57	514.12	1,232.00	3,682.55	5,253.41	5,704.78	6,189.79
General Government Final Consumption Expenditure	0.45	4.37	61.95	191.98	612.62	913.97	965.93	1,073.76
Gross Fixed Capital Formation	1.11	9.05	132.11	296.71	1,174.30	1,514.57	1,616.44	1,867.86
Stock Change	0.11	0.99	38.88	70.80	137.90	189.37	208.22	143.69
Exports of Goods and Services	0.48	7.31	137.44	558.80	1,700.95	2,280.51	2,508.40	2,920.41
Imports of Goods and Services	0.58	4.90	145.60	509.86	1,810.58	2,438.04	2,637.58	3,040.02
Real GDP & its Components (Billions of 1993 MXN) *1								
Gross Domestic Product	953.81	1,049.91	1,140.85	1,230.61	1,604.83	1,705.80	1,753.59	1,837.26
Household Final Consumption Expenditure, etc.	679.51	718.28	812.34	854.69	1,263.95	1,380.06	1,443.55	1,516.96
General Government Final Consumption Expenditure	94.53	117.50	126.01	140.64	157.50	154.47	155.05	164.31
Gross Fixed Capital Formation	219.09	174.43	194.46	179.44	334.38	338.29	364.09	400.38
Stock Change	47.63	23.61	19.04	10.20	47.53	33.80	5.90	-5.83
Exports of Goods and Services	75.75	119.32	160.64	293.76	563.46	631.73	676.27	751.61
Imports of Goods and Services	144.42	91.46	171.63	248.12	604.48	678.07	736.21	825.86
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	6.4	6.6	6.1	6.0	5.0	5.2	5.0	5.0
Industry	25.1	24.1	25.1	24.3	26.5	25.0	24.7	24.8
Services, etc.	59.1	60.6	60.7	61.6	60.4	61.7	62.2	62.2
Industrial Production Index (2000=100) *2	56.6	59.8	67.4	70.4	100.0	98.0	100.5	105.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.031	26.757	40.711	79.542	166.367	189.084	213.891	250.441
Imports, c.i.f.	22.144	19.116	43.548	75.858	182.702	206.623	232.485	268.169
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-3.056	8.399	-0.881	7.089	-8.337	-8.811	-7.587	-6.133
Current Account	-10.422	0.800	-7.451	-1.576	-18.708	-6.610	-5.222	-2.244
Overall Balance	0.817	-2.729	2.218	-16.312	7.126	4.104	6.965	-1.303
Foreign Exchange Rate (MXN/USD) *1	0.0230	0.2569	2.8126	6.4194	9.4556	11.2860	10.8979	10.8992
Purchasing Power Parity (MXN/International Dollar) *1	0.0146	0.1091	1.3368	2.7353	5.7700	6.9596	7.1269	7.2142
Price Indices								
GDP Deflator (1993=100) *3	0.5	4.5	64.8	149.6	342.6	452.2	477.1	498.3
Wholesale Price Index (2000=100) *2	0.3	1.6	20.6	44.5	100.0	129.7	135.1	144.1
Consumer Price Index (2000=100) *2	0.1	1.3	18.6	41.7	100.0	122.3	127.1	131.8
Growth Rate (%)								
Real GDP *3	9.23	2.59	5.07	-6.22	6.60	4.18	2.80	4.77
Population *3	2.51	2.10	1.91	1.79	1.43	1.02	1.02	1.10
Price *2								
Wholesale Price Index	24.5	56.6	21.7	38.6	7.8	9.3	4.2	6.6
Consumer Price Index	26.4	57.7	26.7	35.0	9.5	4.7	4.0	3.6

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

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

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

Note : N.A. shows "not available"

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

: PPP shows Purchasing Power Parity

3.12 New Zealand

Energy Balance Table of New Zealand in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	3,471	-	1,015	-	-	-	-	-	-
2 Import	630	-	4,780	2,105	949	-	209	-	779
3 Export	-1,954	-	-752	-73	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-285	-	-	-	-	-45
5 Stock Changes	-54	-	122	-13	30	-	16	-	-28
6 Total Primary Energy Supply	2,093	-	5,165	1,733	979	-	225	-	707
7 Transfers	-	-	-147	149	-18	-	-21	1	-
8 Total Transformation Sector	-1,564	-	-5,250	5,314	1,586	-	968	2	1,877
8.1 Main Activity Producer	-1,143	-	-	-5	-	-	-	-	-5
8.2 Autoproducers	-12	-434	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-5,250	5,319	1,586	-	968	2	1,883
8.5 Coal Transformation	-409	434	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-361	-	-	-	-	-
10. Discrepancy	-2	-	232	31	16	-	31	-	-19
11 Total Final Energy Consumption	528	-	-	6,866	2,563	-	1,202	3	2,566
12 Industry Sector	382	-	-	694	11	-	-	3	296
13 Transport Sector	-	-	-	5,755	2,525	-	1,202	-	1,973
14 Other Sector	146	-	-	416	27	-	-	-	297
14.1 Residential & Commercial	101	-	-	145	2	-	-	-	51
14.2 Agriculture	45	-	-	168	24	-	-	-	145
14.3 Other	-	-	-	103	1	-	-	-	101
15 Non-energy	-	-	-	311	-	-	-	-	-

Energy Balance Table of New Zealand in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	3,057	-	1,060	-	-	-	-	-	-
2 Import	557	-	4,829	2,021	913	-	229	-	734
3 Export	-1,684	-	-622	-178	-13	-	-	-	-3
4 International Marine Bunkers	-	-	-	-252	-	-	-	-	-47
5 Stock Changes	74	-	-63	72	9	-	9	1	29
6 Total Primary Energy Supply	2,003	-	5,203	1,663	908	-	237	1	713
7 Transfers	-	-	-170	176	1	-	-1	-	-
8 Total Transformation Sector	-1,621	-	-5,096	5,455	1,760	-	945	2	1,846
8.1 Main Activity Producer	-1,211	-	-	-1	-	-	-	-	-1
8.2 Autoproducers	-8	-435	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-5,096	5,456	1,760	-	945	2	1,847
8.5 Coal Transformation	-402	435	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-336	-	-	-	-	-
10. Discrepancy	104	-	63	-74	-126	-	95	1	-39
11 Total Final Energy Consumption	486	-	-	6,884	2,543	-	1,276	4	2,520
12 Industry Sector	364	-	-	652	11	-	-	3	293
13 Transport Sector	-	-	-	5,705	2,503	-	1,276	1	1,832
14 Other Sector	122	-	-	527	30	-	-	-	395
14.1 Residential & Commercial	95	-	-	224	3	-	-	-	119
14.2 Agriculture	27	-	-	179	26	-	-	-	153
14.3 Other	-	-	-	124	1	-	-	-	123
15 Non-energy	-	-	-	280	-	-	-	-	-

Energy Balance Table of New Zealand in 2006 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	3,279	2,017	-	3,161	1,045	-	-	13,989	
-	44	-	-	124	-	-	-	-	-	-	-	7,515	
-66	-7	-	-	-	-	-	-	-	-	-	-	-2,779	
-241	-	-	-	-	-	-	-	-	-	-	-	-285	
-33	2	-	-	-1	-	-	-	-	-	-	-	54	
-340	40	-	-	123	3,279	2,017	-	3,161	1,045	-	-	18,493	
-	153	-	-	35	-	-	-	-	-	-	-	1	
366	-	319	-	196	-1,840	-2,017	-	-2,923	-209	3,739	12	-4,739	
-	-	-	-	-	-1,683	-2,017	-	-2,923	-29	3,574	-	-4,226	
-	-	-	-	-	-157	-	-	-	-181	164	12	-607	
-	-	-	-	-	-	-	-	-	-	-	-	-	
366	-	319	-	196	-	-	-	-	-	-	-	69	
-	-	-	-	-	-	-	-	-	-	-	-	25	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-319	-	-42	-126	-	-	-	-	-466	-	-953	
4	-1	-	-	-0	98	-	-	-	0	33	-12	380	
30	191	-	-	311	1,410	-	-	238	836	3,305	-	13,182	
7	67	-	-280	299	680	-	-	138	642	1,259	-	3,794	
22	33	-	-	-	4	-	-	-	-	41	-	5,801	
1	92	-	-	-	296	-	-	100	194	2,005	-	3,158	
1	92	-	-	-	256	-	-	100	194	1,771	-	2,568	
-	-	-	-	-	40	-	-	-	-	124	-	378	
-	-	-	-	-	-	-	-	-	-	109	-	212	
-	-	-	-	311	499	-	-	-	-	-	-	809	

Energy Balance Table of New Zealand in 2005 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	3,201	2,006	-	2,982	1,056	-	-	13,361	
-	14	-	-	132	-	-	-	-	-	-	-	7,406	
-147	-15	-	-	-	-	-	-	-	-	-	-	-2,484	
-205	-	-	-	-	-	-	-	-	-	-	-	-252	
20	-	-	-	5	1	-	-	-	-	-	-	84	
-332	-1	-	-	136	3,201	2,006	-	2,982	1,056	-	-	18,115	
-	176	-	-	-	-	-	-	-	-	-	-	6	
421	-	285	-	195	-1,743	-2,006	-	-2,745	-212	3,706	12	-4,250	
-	-	-	-	-	-1,584	-2,006	-	-2,745	-36	3,547	-	-4,037	
-	-	-	-	-	-158	-	-	-	-176	159	12	-605	
-	-	-	-	-	-	-	-	-	-	-	-	-	
421	-	285	-	195	-	-	-	-	-	-	-	360	
-	-	-	-	-	-	-	-	-	-	-	-	33	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-285	-	-51	-129	-	-	-	-	-462	-	-928	
-2	-2	-	-	-	-32	-	-	0	0	32	-12	81	
87	173	-	-	280	1,298	-	-	236	844	3,276	-	13,025	
4	61	-	-292	271	-124	-	-	136	650	1,240	-	2,918	
64	29	-	-	-	4	-	-	-	-	41	-	5,750	
19	82	-	-	-	331	-	-	100	194	1,996	-	3,269	
19	82	-	-	-	292	-	-	100	194	1,758	-	2,663	
-	-	-	-	-	38	-	-	-	-	121	-	365	
-	-	-	-	-	-	-	-	-	-	117	-	241	
-	-	-	-	280	430	-	-	-	-	-	-	710	

Major Energy Indicators of New Zealand

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	9,501	11,968	14,446	16,033	18,080	18,266	18,115	18,493
Indigenous Production	6,031	10,037	12,701	13,202	14,985	13,559	13,361	13,989
Import	4,058	3,150	3,804	5,101	5,927	7,468	7,406	7,515
Export	-86	-1,036	-1,698	-2,067	-2,546	-2,199	-2,484	-2,779
Final Energy Consumption	7,301	9,180	9,409	11,324	13,213	13,618	13,025	13,182
Industry	2,472	3,456	3,654	4,623	5,431	4,558	4,005	4,224
Transport	2,269	2,574	3,430	4,201	4,814	5,735	5,750	5,801
Residential & Commercial	1,964	2,054	1,931	2,100	2,520	2,679	2,663	2,568
Agriculture	448	447	264	288	330	335	365	378
Coal, Coal Products								
Primary Energy Supply	1,113	1,034	1,128	1,126	1,042	1,811	2,003	2,093
Indigenous Production	1,179	1,330	1,389	2,108	2,333	3,007	3,057	3,471
Import	-	1	-	-	-	451	557	630
Export	-66	-297	-225	-983	-1,122	-1,379	-1,684	-1,954
Transformation Sector	-152	-237	-466	-525	-577	-1,410	-1,621	-1,564
Power Generation	-127	-223	-209	-246	-597	-1,423	-1,654	-1,589
Final Energy Consumption	851	907	572	609	464	518	486	528
Industry	556	661	446	395	353	339	364	382
Transport	2	2	-	2	-	-	-	-
Residential & Commercial	291	241	95	188	98	167	95	101
Agriculture	3	4	10	23	14	12	27	45
Crude Oil								
Primary Energy Supply	3,030	1,600	5,007	5,371	5,452	5,277	5,203	5,165
Indigenous Production	337	1,265	2,599	2,152	1,922	1,151	1,060	1,015
Import	2,746	990	3,293	4,168	4,724	4,808	4,829	4,780
Export	-	-658	-965	-1,053	-1,219	-741	-622	-752
Transformation Sector	-3,102	-1,610	-4,968	-5,335	-5,265	-5,208	-5,096	-5,250
Petroleum Refineries	-3,102	-1,610	-4,968	-5,335	-5,265	-5,208	-5,096	-5,250
Petroleum Products								
Primary Energy Supply	865	2,001	-318	595	855	1,778	1,663	1,733
Import	1,312	2,159	511	933	1,203	2,209	2,021	2,105
Export	-20	-80	-508	-31	-205	-79	-178	-73
Transformation Sector	2,865	1,513	4,904	4,919	5,293	5,326	5,455	5,314
Power Generation	-	-	-3	-1	-	-5	-1	-5
Petroleum Refineries	2,865	1,513	4,907	4,920	5,293	5,331	5,456	5,319
Final Energy Consumption	3,660	3,515	4,431	5,295	5,840	6,826	6,884	6,866
Industry	488	321	586	655	617	665	652	694
Transport	2,256	2,444	3,369	4,163	4,775	5,692	5,705	5,755
Residential & Commercial	376	238	173	184	140	184	224	145
Agriculture	393	375	195	188	189	173	179	168
Natural Gas								
Primary Energy Supply	760	3,022	3,897	3,856	5,057	3,452	3,201	3,279
Indigenous Production	763	3,021	3,897	3,856	5,056	3,453	3,201	3,279
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-316	-1,550	-2,501	-1,657	-1,927	-1,313	-1,743	-1,840
Power Generation	-332	-1,344	-1,230	-1,046	-1,927	-1,313	-1,743	-1,840
Final Energy Consumption	407	1,355	1,295	2,017	3,093	1,948	1,298	1,410
Industry	311	593	1,057	1,780	2,617	1,576	963	1,110
Transport	8	126	57	31	2	5	4	4
Residential & Commercial	84	120	181	207	460	332	292	256
Agriculture	1	5	-	-	14	35	38	40
Electricity								
Power Generation	1,952	2,379	2,775	3,037	3,373	3,682	3,706	3,739
Thermal	303	702	768	693	1,276	1,342	1,699	1,722
Hydro	1,648	1,678	2,007	2,344	2,097	2,339	2,006	2,017
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	1,670	2,082	2,390	2,621	2,894	3,268	3,276	3,305
Industry	645	849	961	1,135	1,213	1,210	1,240	1,259
Transport	3	3	5	5	37	38	41	41
Residential & Commercial	971	1,166	1,365	1,396	1,532	1,705	1,758	1,771
Agriculture	51	64	59	77	113	115	121	124

Major Economic Indicators of New Zealand

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	3.11	3.27	3.45	3.67	3.86	4.09	4.13	4.18
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	33.06	38.69	39.82	46.41	52.67	61.19	62.41	63.60
Real Term (Billions of 2000 Price and 2000 PPP)	47.71	55.83	57.47	66.98	76.01	88.31	90.07	91.78
Nominal (Billions of Current USD)	23.01	22.99	43.90	61.28	52.67	98.42	109.76	104.38
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	10,620	11,825	11,550	12,635	13,654	14,970	15,098	15,198
Real Term (2000 Price and 2000 PPP)	15,326	17,065	16,668	18,233	19,704	21,604	21,788	21,933
Nominal (Current USD)	7,391	7,029	12,731	16,683	13,654	24,078	26,550	24,944
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	23.62	46.52	73.58	93.39	115.94	148.48	155.88	160.96
Household Final Consumption Expenditure, etc.	13.80	27.15	44.64	54.55	68.69	87.56	93.18	N.A.
General Government Final Consumption Expenditure	4.87	8.66	14.03	16.30	20.30	26.26	28.54	N.A.
Gross Fixed Capital Formation	4.89	12.64	14.92	20.60	23.60	34.96	37.31	N.A.
Stock Change	-0.05	-0.20	-0.15	1.18	1.42	1.61	1.30	N.A.
Exports of Goods and Services	6.93	13.80	19.76	27.13	41.16	42.96	43.29	N.A.
Imports of Goods and Services	7.19	15.15	19.57	26.37	39.22	44.53	47.47	N.A.
Real GDP & its Components (Billions of 2000 NZD) *1								
Gross Domestic Product	72.77	85.15	87.66	102.16	115.94	134.69	137.38	139.99
Household Final Consumption Expenditure, etc.	44.00	48.02	52.68	59.54	68.69	83.21	86.97	N.A.
General Government Final Consumption Expenditure	14.17	15.44	16.62	17.96	20.30	23.24	24.34	N.A.
Gross Fixed Capital Formation	10.62	16.47	15.98	20.63	23.60	33.33	35.31	N.A.
Stock Change	0.73	0.17	0.37	1.39	1.42	1.79	0.98	N.A.
Exports of Goods and Services	16.19	19.84	23.95	32.22	41.16	48.12	48.05	N.A.
Imports of Goods and Services	14.31	18.10	23.44	31.85	39.22	55.80	58.61	N.A.
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	7.4	7.5	8.8	8.5	8.3	7.2	7.1	N.A.
Industry	27.7	28.9	25.6	25.1	23.5	23.4	22.7	N.A.
Services, etc.	61.4	59.2	62.0	62.5	64.3	65.2	66.0	N.A.
Manufacturing Production Index (2000=100) *2	N.A.	N.A.	67.2	94.9	100.0	113.4	110.4	108.5
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.421	5.720	9.394	13.645	13.272	20.344	21.729	22.432
Imports, c.i.f.	5.473	5.992	9.501	13.957	13.906	23.195	26.234	26.434
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.303	-0.061	0.815	0.817	0.609	-1.422	-2.578	-1.999
Current Account	-0.973	-2.657	-1.453	-3.068	-2.678	-6.291	-9.291	-9.087
Overall Balance	-1.421	-2.037	0.179	0.388	-0.143	0.630	2.418	4.255
Foreign Exchange Rate (NZD/USD) *1	1.0267	2.0234	1.6762	1.5239	2.2011	1.5087	1.4203	1.5421
Purchasing Power Parity (NZD/International Dollar) *1	0.9170	1.1963	1.5690	1.5140	1.5253	1.5364	1.5350	1.5074
Price Indices								
GDP Deflator (2000=100) *3	32.5	54.6	83.9	91.4	100.0	110.2	113.5	115.0
Industry Input Price Index (2000=100) *2	35.6	62.4	84.1	90.5	100.0	107.1	112.9	120.6
Consumer Price Index (2000=100) *2	30.5	53.7	84.9	93.1	100.0	109.7	113.0	116.8
Growth Rate (%) *3								
Real GDP	0.90	0.77	-0.02	4.18	2.14	3.69	2.00	1.90
Population	0.13	0.57	1.47	1.47	0.59	1.50	1.14	1.23
Price								
Industry Input Price Index	22.9	15.3	4.7	0.8	7.6	1.7	5.4	6.8
Consumer Price Index	17.1	15.3	5.5	3.8	2.6	2.3	3.0	3.4

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

Note : N.A. shows "not available"
 : NZD shows New Zealand Dollar, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

Energy Price of New Zealand in 2006

Currency Exchange Rate

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

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		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil	bbbl	94.951	Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil			Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG			Ethane			Ethane		
Naphtha			LPG			LPG		
Motor Gasoline (regular)	litre	0.624	Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline (premium)	litre	1.637	Motor Gasoline (premium)	litre	1.615
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil	litre	0.679	Other Kerosene			Other Kerosene		
Fuel Oil			Gas/Diesel Oil	litre	1.088	Gas/Diesel Oil	litre	1.131
White Spirit SBP			Fuel Oil	litre	0.545	Fuel Oil		
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Natural Gas			Natural Gas	GJ	28.220
Compressed Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Other Energy Products			Electricity	kWh	0.078	Industrial		
			Other Energy Products			Commercial		
						Residential	kWh	0.204
						Others		
						Other Energy Products		

3.13 Papua New Guinea

Energy Balance Table of Papua New Guinea in 2006

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	-	-	2,867	-	-	-	-	-	-
2 Import	-	-	993	655	52	-	-	19	310
3 Export	-	-	-2,482	-435	-29	-170	-31	-	-102
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-294	-	-	-	-	-	-
6 Total Primary Energy Supply	-	-	1,084	220	23	-170	-31	19	207
7 Transfers	-	-	-13	13	-	9	-18	17	3
8 Total Transformation Sector	-	-	-1,060	562	66	179	129	-	314
8.1 Main Activity Producer	-	-	-	-92	-	-	-	-	-46
8.2 Autoproducers	-	-	-	-406	-	-	-	-	-195
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-1,060	1,060	66	179	129	-	555
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-21	-	-	-	-	-7
10. Discrepancy	-	-	0	0	0	0	-0	0	-0
11 Total Final Energy Consumption	-	-	12	775	89	18	80	36	516
12 Industry Sector	-	-	-	381	-	9	-	-	347
13 Transport Sector	-	-	-	344	89	-	80	-	170
14 Other Sector	-	-	12	50	-	9	-	36	-
14.1 Residential & Commercial	-	-	-	-	-	-	-	-	-
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	12	50	-	9	-	36	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Papua New Guinea in 2005

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	-	-	2,462	-	-	-	-	-	-
2 Import	-	-	917	680	45	-	-	19	321
3 Export	-	-	-2,344	-423	-6	-240	-6	-	-23
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	-	-	1,036	257	39	-240	-6	19	298
7 Transfers	-	-	-12	12	-	8	-17	16	3
8 Total Transformation Sector	-	-	-993	527	50	250	103	-	210
8.1 Main Activity Producer	-	-	-	-88	-	-	-	-	-44
8.2 Autoproducers	-	-	-	-385	-	-	-	-	-175
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-993	1,000	50	250	103	-	429
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-34	-	-	-	-	-6
10. Discrepancy	-	-	-18	-2	-0	-2	0	0	-0
11 Total Final Energy Consumption	-	-	13	760	88	17	79	36	505
12 Industry Sector	-	-	-	370	-	8	-	-	336
13 Transport Sector	-	-	-	342	88	-	79	-	169
14 Other Sector	-	-	13	48	-	8	-	36	-
14.1 Residential & Commercial	-	-	-	-	-	-	-	-	-
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	13	48	-	8	-	36	-
15 Non-energy	-	-	-	-	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Papua New Guinea in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	259	74	-	-	-	-	-	3,201	
268	6	-	-	-	-	-	-	-	-	-	-	1,648	
-102	-	-	-	-	-	-	-	-	-	-	-	-2,917	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-294	
166	6	-	-	-	259	74	-	-	-	-	-	1,638	
1	-	-	-	-	-	-	-	-	-	-	-	-0	
-149	14	10	-	-	-111	-74	-	-	-	259	-	-423	
-46	-	-	-	-	-	-44	-	-	-	68	-	-68	
-210	-	-	-	-	-111	-30	-	-	-	191	-	-356	
-	-	-	-	-	-	-	-	-	-	-	-	-	
108	14	10	-	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-3	-10	-	-	-148	-	-	-	-	-18	-	-187	
0	-0	-	-	-	0	-	-	-	-	-0	-	0	
19	17	-	-	-	-	-	-	-	-	241	-	1,028	
13	12	-	-	-	-	-	-	-	-	172	-	553	
6	-	-	-	-	-	-	-	-	-	-	-	344	
-	5	-	-	-	-	-	-	-	-	69	-	131	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	5	-	-	-	-	-	-	-	-	69	-	131	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Energy Balance Table of Papua New Guinea in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	241	77	-	-	-	-	-	2,780	
278	17	-	-	-	-	-	-	-	-	-	-	1,597	
-145	-3	-	-	-	-	-	-	-	-	-	-	-2,767	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
133	14	-	-	-	241	77	-	-	-	-	-	1,611	
1	-	-	-	-	-	-	-	-	-	-	-	-0	
-116	20	10	-	-	-120	-77	-	-	-	258	-	-405	
-44	-	-	-	-	-	-46	-	-	-	70	-	-65	
-210	-	-	-	-	-120	-30	-	-	-	189	-	-347	
-	-	-	-	-	-	-	-	-	-	-	-	-	
139	20	10	-	-	-	-	-	-	-	-	-	8	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-18	-10	-	-	-121	-	-	-	-	-18	-	-173	
0	-0	-	-	-	0	-	-	-	-	0	-	-20	
18	15	-	-	-	-	-	-	-	-	240	-	1,013	
13	12	-	-	-	-	-	-	-	-	172	-	542	
5	-	-	-	-	-	-	-	-	-	-	-	342	
-	3	-	-	-	-	-	-	-	-	68	-	129	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	3	-	-	-	-	-	-	-	-	68	-	129	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Major Energy Indicators of Papua New Guinea

ktoe

	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	631	737	864	921	1,123	1,390	1,611	1,638
Indigenous Production	27	36	4,611	4,897	3,866	2,318	2,780	3,201
Import	625	749	796	731	908	1,392	1,597	1,648
Export	-	-29	-4,512	-4,694	-3,651	-2,320	-2,767	-2,917
Final Energy Consumption	441	512	613	689	880	1,124	1,013	1,028
Industry	161	214	190	271	480	637	542	553
Transport	211	228	209	251	306	377	342	344
Residential & Commercial	29	22	34	79	82	39	-	-
Agriculture	30	33	81	77	-	-	-	-
Coal, Coal Products								
Primary Energy Supply	-	1	1	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	1	1	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	1	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	-	-	-	10	-	230	1,036	1,084
Indigenous Production	-	-	4,500	4,717	3,651	2,134	2,462	2,867
Import	-	-	-	-	-	130	917	993
Export	-	-	-4,500	-4,694	-3,651	-2,035	-2,344	-2,482
Transformation Sector	-	-	-	-24	-	-464	-993	-1,060
Petroleum Refineries	-	-	-	-24	-	-464	-993	-1,060
Petroleum Products								
Primary Energy Supply	604	700	752	731	908	977	257	220
Import	625	748	795	731	908	1,262	680	655
Export	-	-29	-12	-	-	-285	-423	-435
Transformation Sector	-264	-312	-346	-82	-222	-121	527	562
Power Generation	-264	-312	-346	-104	-222	-555	-474	-498
Petroleum Refineries	-	-	-	22	-	434	1,000	1,060
Final Energy Consumption	338	382	398	571	686	835	760	775
Industry	80	111	87	197	338	419	370	381
Transport	211	228	209	251	306	377	342	344
Residential & Commercial	19	10	24	35	30	39	-	-
Agriculture	27	30	76	77	-	-	-	-
Natural Gas								
Primary Energy Supply	-	-	72	83	119	107	241	259
Indigenous Production	-	-	72	83	119	107	241	259
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-83	-119	-107	-120	-111
Power Generation	-	-	-	-83	-119	-107	-120	-111
Final Energy Consumption	-	-	72	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	108	133	154	136	204	298	258	259
Thermal	81	97	114	61	124	221	182	185
Hydro	27	36	40	75	80	77	77	74
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	103	130	142	117	194	289	240	241
Industry	81	103	103	74	142	218	172	172
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	10	12	11	43	52	-	-	-
Agriculture	2	3	5	-	-	-	-	-

Major Economic Indicators of Papua New Guinea

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	3.20	3.64	4.13	4.71	5.38	5.94	6.07	6.20
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	1.89	2.02	2.14	3.23	3.42	3.58	3.70	3.79
Real Term (Billions of 2000 Price and 2000 PPP)	4.82	5.16	5.46	8.25	8.73	9.14	9.44	9.69
Nominal (Billions of Current USD)	2.55	2.42	3.22	4.60	3.42	3.93	4.94	5.65
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	590	556	518	686	636	603	609	612
Real Term (2000 Price and 2000 PPP)	1,507	1,419	1,323	1,752	1,623	1,540	1,555	1,562
Nominal (Current USD)	796	666	780	977	636	662	815	911
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	1.71	2.42	3.08	5.89	9.51	12.65	15.34	17.27
Household Final Consumption Expenditure, etc.	1.05	1.62	1.82	2.45	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	0.41	0.57	0.76	1.01	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	0.39	0.45	0.77	1.15	N.A.	N.A.	N.A.	N.A.
Stock Change	0.04	0.03	-0.02	0.15	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	0.74	1.02	1.25	3.67	6.85	N.A.	N.A.	N.A.
Imports of Goods and Services	0.91	1.27	1.51	2.54	5.97	N.A.	N.A.	N.A.
Real GDP & its Components (Billions of 1983 PGK) *1								
Gross Domestic Product	2.07	2.22	2.35	3.55	3.76	3.93	4.06	4.17
Household Final Consumption Expenditure, etc.	1.38	1.49	1.29	1.51	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	0.57	0.52	0.53	0.55	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	0.51	0.39	0.53	0.59	N.A.	N.A.	N.A.	N.A.
Stock Change	0.04	0.02	-0.02	0.09	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	0.74	0.90	0.93	1.86	N.A.	N.A.	N.A.	N.A.
Imports of Goods and Services	1.16	1.10	0.91	1.05	N.A.	N.A.	N.A.	N.A.
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	31.4	31.5	34.2	30.1	31.6	N.A.	N.A.	N.A.
Industry	29.5	28.8	26.2	36.3	34.5	N.A.	N.A.	N.A.
Services, etc.	39.1	39.7	39.6	33.6	28.8	N.A.	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.	1.031	0.912	1.177	2.654	2.096	2.558	3.280	4.122
Imports, c.i.f.	1.176	1.008	1.193	1.452	1.151	1.680	1.753	2.252
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.035	0.051	0.069	1.408	1.095	1.096	1.753	N.A.
Current Account	-0.289	-0.122	-0.076	0.492	0.345	-0.082	0.423	N.A.
Overall Balance	-0.084	-0.001	0.022	-0.039	0.104	-0.098	-0.282	N.A.
Foreign Exchange Rate (PGK/USD) *1	0.6709	1.0003	0.9550	1.2798	2.7822	3.2225	3.1019	3.0567
Purchasing Power Parity (PGK/International Dollar) *1	0.6562	0.6742	0.6899	0.7750	1.0895	1.2650	1.4410	1.5324
Price Indices								
GDP Deflator (1983=100) *3	82.4	109.2	130.9	165.9	253.3	321.8	377.7	414.4
Wholesale Price Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2000=100) *2	23.0	31.5	40.4	57.1	100.0	143.2	145.7	149.2
Growth Rate (%) *3								
Real GDP	-2.30	4.00	-3.01	-3.31	-1.21	2.70	3.30	2.60
Population	2.35	2.63	2.60	2.70	2.64	2.36	2.27	2.17
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	3.7	7.0	17.3	15.6	2.2	1.8	2.4

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

Note : N.A. shows "not available"
 : PGK shows Kina, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.14 Peru

Energy Balance Table of Peru in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	75	-	5,456	-	-	-	-	-	-
2 Import	507	205	5,330	1,000	91	-	1	-	796
3 Export	-	-	-1,256	-2,306	-919	-	-371	-	-103
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	13	-16	-188	-1,058	-578	-	312	-	-215
6 Total Primary Energy Supply	594	189	9,342	-2,363	-1,406	-	-58	-	478
7 Transfers	-	-	-1,371	1,618	796	-	-	-	147
8 Total Transformation Sector	-233	-149	-8,701	7,805	1,567	-	537	136	2,537
8.1 Main Activity Producer	-233	-	-	-330	-	-	-	-	-54
8.2 Autoproducers	-	-	-	-142	-	-	-	-	-138
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-8,701	8,277	1,567	-	537	136	2,728
8.5 Coal Transformation	-	-149	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-368	-13	-	-	-	-106
10. Discrepancy	6	-10	730	32	-0	-	43	-43	-4
11 Total Final Energy Consumption	367	30	-	6,724	945	-	522	93	3,051
12 Industry Sector	367	30	-	2,002	25	-	-	4	546
13 Transport Sector	-	-	-	3,939	805	-	522	-	2,487
14 Other Sector	0	-	-	783	115	-	-	89	18
14.1 Residential & Commercial	0	-	-	783	115	-	-	89	18
14.2 Agriculture	-	-	-	0	-	-	-	-	-
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	215	-	-	-	-	-

Energy Balance Table of Peru in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	30	-	4,074	-	-	-	-	-	-
2 Import	657	151	4,698	1,010	1	10	0	-	796
3 Export	-	-	-609	-3,068	-12	-1,023	-309	-	-225
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	70	20	95	39	44	-30	-5	3	-9
6 Total Primary Energy Supply	757	171	8,258	-2,019	34	-1,043	-315	3	562
7 Transfers	-	-	-814	-	-	-	-	-	-
8 Total Transformation Sector	-230	-100	-7,782	7,365	1,070	538	460	231	2,070
8.1 Main Activity Producer	-230	-	-	-345	-	-	-	-	-43
8.2 Autoproducers	-	-	-	-263	-	-	-	-0	-228
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-7,782	7,973	1,070	538	460	231	2,341
8.5 Coal Transformation	-	-100	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	0	-7	338	953	-128	505	174	-16	170
11 Total Final Energy Consumption	527	63	-	6,299	975	-	319	218	2,801
12 Industry Sector	527	63	-	1,609	13	-	-	30	456
13 Transport Sector	-	-	-	3,491	831	-	319	-	2,284
14 Other Sector	0	-	-	1,199	131	-	-	188	61
14.1 Residential & Commercial	0	-	-	868	118	-	-	185	22
14.2 Agriculture	-	-	-	34	13	-	-	0	8
14.3 Other	-	-	-	297	0	-	-	3	30
15 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Peru in 2006 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	1,859	1,685	-	2	2,019	-	-	11,096	
5	9	-	-	100	-	-	-	-	-	-	-	7,042	
-872	-29	-	-	-13	-	-	-	-	-	-	-	-3,562	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-448	-39	-	-	-89	-	-	-	-	-	-	-	-1,249	
-1,315	-59	-	-	-3	1,859	1,685	-	2	2,019	-	-	13,327	
-	661	-	-	14	-	-	-	-	-	-	-	247	
2,484	218	121	-	206	-1,148	-1,685	-	-0	-182	2,354	-	-1,939	
-276	-	-	-	-	-1,043	-1,682	-	-	-	2,203	-	-1,085	
-4	-	-	-	-	-	-3	-	-0	-105	151	-	-99	
-	-	-	-	-	-	-	-	-	-	-	-	-	
2,763	218	121	-	206	-	-	-	-	-	-	-	-424	
-	-	-	-	-	-	-	-	-	-	-	-	-149	
-	-	-	-	-	-105	-	-	-0	-77	-	-	-182	
-87	-	-159	-	-3	-377	-	-	-	-	-316	-	-1,061	
-2	-0	38	-	0	0	-	-	-0	-9	-0	-	748	
1,079	819	-	-	215	334	-	-	1	1,828	2,038	-	11,322	
1,057	156	-	-	215	321	-	-	0	85	1,110	-	3,915	
21	104	-	-	-	7	-	-	-	-	-	-	3,946	
2	559	-	-	-	6	-	-	1	1,743	928	-	3,462	
2	559	-	-	-	6	-	-	1	1,743	877	-	3,410	
-	0	-	-	-	-	-	-	-	-	-	-	0	
-	-	-	-	-	-	-	-	-	-	51	-	51	
-	-	-	-	215	-	-	-	-	-	-	-	215	

Energy Balance Table of Peru in 2005 (Continued)

													unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	2,221	1,546	-	2	2,163	-	-	10,035	
-	70	-	-	132	-	-	-	-	-	-	-	6,515	
-1,264	-115	-	-	-120	-	-	-	-	-	-1	-	-3,677	
-	-	-	-	-	-	-	-	-	-	-	-	-	
38	1	-	-	-1	-	-	-	-	-	-	-	225	
-1,226	-45	-	-	11	2,221	1,546	-	2	2,163	-1	-	13,098	
-	-	-	-	-	-	-	-	-	-	-	-	-814	
2,494	258	67	-	177	-1,558	-1,546	-	-0	-192	2,194	-	-1,850	
-302	-	-	-	-	-1,195	-1,543	-	-	-	2,048	-	-1,265	
-35	-	-	-	-	-68	-3	-	-0	-114	146	-	-302	
-	-	-	-	-	-296	-	-	-	-	-	-	-296	
2,831	258	67	-	177	-	-	-	-	-	-	-	191	
-	-	-	-	-	-	-	-	-	-	-	-	-100	
-	-	-	-	-	-	-	-	-0	-78	-	-	-78	
-	-	-	-	-	-533	-	-	-	-	-293	-	-827	
-33	537	-67	-	-189	50	-	-	-0	-0	1	-	1,335	
1,235	751	-	-	-	179	-	-	1	1,971	1,900	-	10,942	
928	182	-	-133	-	179	-	-	0	60	1,075	-	3,514	
28	28	-	-77	-	0	-	-	-	-	-	-	3,491	
279	540	-	-	-	0	-	-	1	1,911	826	-	3,937	
3	539	-	-	-	0	-	-	1	1,911	780	-	3,560	
13	0	-	-	-	-	-	-	-	-	-	-	34	
263	1	-	-	-	-	-	-	-	-	46	-	343	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Major Energy Indicators of Peru

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	8,185	7,564	7,537	9,450	11,047	13,277	13,098	13,327
Indigenous Production	11,095	11,426	8,193	8,124	7,832	9,459	10,035	11,096
Import	195	109	1,668	4,346	5,397	6,762	6,515	7,042
Export	-3,191	-3,949	-2,267	-2,561	-2,094	-2,966	-3,677	-3,562
Final Energy Consumption	6,214	5,842	6,208	7,692	9,200	11,265	10,942	11,322
Industry	2,224	2,070	1,958	2,562	3,336	3,456	3,514	3,915
Transport	2,260	2,121	2,499	3,055	3,386	3,849	3,491	3,946
Residential & Commercial	1,216	1,239	1,274	1,330	1,566	3,585	3,560	3,410
Agriculture	184	95	107	132	107	42	34	0
Coal, Coal Products								
Primary Energy Supply	142	115	145	375	630	923	928	784
Indigenous Production	29	89	68	35	12	16	30	75
Import	124	81	71	338	588	805	807	712
Export	-	-13	-	-	-	-	-	-
Transformation Sector	32	19	6	-57	-180	-383	-330	-382
Power Generation	-	-	-	-	-99	-262	-230	-233
Final Energy Consumption	53	112	100	290	430	530	591	397
Industry	53	105	93	282	430	530	591	397
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	7	7	8	-	0	0	0
Agriculture	-	-	-	-	0	-	-	-
Crude Oil								
Primary Energy Supply	7,532	8,400	7,149	6,974	7,268	7,916	8,258	9,342
Indigenous Production	9,869	9,656	6,493	6,151	4,829	4,623	4,074	5,456
Import	-	-	888	2,419	3,090	4,219	4,698	5,330
Export	-2,383	-1,290	-150	-1,419	-687	-841	-609	-1,256
Transformation Sector	-7,379	-8,841	-7,432	-7,473	-7,740	-7,273	-7,782	-8,701
Petroleum Refineries	-7,379	-8,841	-7,432	-7,473	-7,740	-7,273	-7,782	-8,701
Petroleum Products								
Primary Energy Supply	-686	-2,632	-1,389	162	158	-382	-2,019	-2,363
Import	71	28	709	1,589	1,720	1,737	1,010	1,000
Export	-808	-2,646	-2,117	-1,142	-1,407	-2,125	-3,068	-2,306
Transformation Sector	6,411	7,904	6,689	6,463	7,077	6,707	7,365	7,805
Power Generation	-857	-685	-760	-926	-686	-694	-608	-471
Petroleum Refineries	7,268	8,589	7,449	7,389	7,763	7,401	7,973	8,277
Final Energy Consumption	5,332	4,705	5,020	6,292	7,225	6,565	6,299	6,724
Industry	1,669	1,359	1,210	1,631	2,021	1,400	1,609	2,002
Transport	2,260	2,121	2,499	3,055	3,386	3,849	3,491	3,939
Residential & Commercial	918	850	854	894	1,027	941	868	783
Agriculture	155	58	87	100	65	42	34	0
Natural Gas								
Primary Energy Supply	594	874	757	827	1,547	828	2,221	1,859
Indigenous Production	594	874	757	827	1,547	828	2,221	1,859
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-150	-157	-135	-97	-411	-689	-1,558	-1,148
Power Generation	-55	-78	-75	-58	-226	-689	-1,263	-1,043
Final Energy Consumption	80	108	74	3	1	55	179	334
Industry	41	47	28	-	-	54	179	321
Transport	-	-	-	-	-	-	0	7
Residential & Commercial	39	61	46	3	1	0	0	6
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	863	1,042	1,132	1,449	1,713	2,087	2,194	2,354
Thermal	260	235	257	337	322	580	648	669
Hydro	603	807	875	1,112	1,391	1,507	1,546	1,685
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	749	917	1,014	1,106	1,490	1,853	1,900	2,038
Industry	461	559	627	649	884	1,139	1,075	1,110
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	259	321	367	424	538	714	780	877
Agriculture	29	37	20	32	42	-	-	-

Major Economic Indicators of Peru

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	17.32	19.52	21.76	23.86	25.66	26.96	27.27	27.59
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	39.13	39.76	36.12	47.17	53.34	61.45	65.41	70.47
Real Term (Billions of 2000 Price and 2000 PPP)	93.36	94.88	86.19	112.56	127.27	146.63	156.08	168.17
Nominal (Billions of Current USD)	20.66	17.16	28.97	53.67	53.34	69.66	79.37	92.41
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	2,258	2,037	1,660	1,977	2,078	2,279	2,398	2,554
Real Term (2000 Price and 2000 PPP)	5,389	4,860	3,961	4,718	4,960	5,439	5,723	6,096
Nominal (Current USD)	1,193	879	1,331	2,249	2,078	2,584	2,910	3,350
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	0.00	0.00	5.44	120.93	186.14	237.77	261.61	302.55
Household Final Consumption Expenditure, etc.	0.00	0.00	4.01	86.00	132.46	162.44	172.34	187.67
General Government Final Consumption Expenditure	0.00	0.00	0.43	11.79	19.72	23.67	26.42	29.14
Gross Fixed Capital Formation	0.00	0.00	0.88	29.10	37.61	42.66	49.27	58.36
Stock Change	0.00	0.00	0.02	0.92	-0.08	2.38	-0.63	2.20
Exports of Goods and Services	0.00	0.00	0.86	15.23	29.78	50.33	64.76	86.94
Imports of Goods and Services	0.00	0.00	0.75	22.07	33.80	42.60	50.16	59.71
Real GDP & its Components (Billions of 1994 PEN) *1								
Gross Domestic Product	88.80	90.24	81.98	107.06	121.06	139.46	148.46	159.95
Household Final Consumption Expenditure, etc.	64.02	68.79	60.90	78.22	86.20	97.65	101.95	109.28
General Government Final Consumption Expenditure	7.19	8.45	7.38	9.41	11.56	12.39	13.60	14.71
Gross Fixed Capital Formation	16.36	10.77	13.72	25.47	23.74	24.90	28.29	32.93
Stock Change	3.49	0.30	0.21	0.91	-0.05	1.19	-0.28	1.01
Exports of Goods and Services	9.03	10.09	9.26	13.29	20.08	28.10	32.30	32.67
Imports of Goods and Services	11.28	8.17	9.50	20.23	20.48	24.77	27.41	30.64
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	6.3	7.4	8.5	8.2	9.4	9.1	8.9	8.8
Industry	26.4	24.0	25.9	27.8	27.5	28.6	28.8	28.9
Services, etc.	57.6	58.9	56.4	53.8	53.5	52.6	52.4	52.6
Manufacturing Production Index (2000=100) *2	89.8	80.1	70.2	92.3	100.0	114.5	122.3	133.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.898	2.979	3.230	5.575	7.028	12.809	17.114	23.431
Imports, c.i.f.	2.573	1.767	2.634	7.584	7.415	10.101	12.496	15.327
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.826	1.219	0.399	-2.241	-0.403	3.004	5.286	8.934
Current Account	-0.101	0.102	-1.419	-4.625	-1.546	0.019	1.148	2.755
Overall Balance	0.279	-1.594	-2.141	-0.590	-0.130	2.456	1.411	3.221
Foreign Exchange Rate (PEN/USD) *1	0.0000	0.0000	0.1879	2.2533	3.4900	3.4132	3.2958	3.2740
Purchasing Power Parity (PEN/International Dollar) *1	0.0000	0.0000	0.0774	1.1666	1.4625	1.4817	1.4865	1.5464
Price Indices								
GDP Deflator (1994=100) *3	0.0	0.0	6.6	112.9	153.8	170.5	176.2	189.1
Wholesale Price Index (2000=100) *2	0.0	0.0	5.9	72.5	100.0	107.4	109.8	113.3
Consumer Price Index (2000=100) *2	0.0	0.0	4.0	71.7	100.0	108.3	110.1	112.3
Growth Rate (%) *3								
Real GDP	3.08	2.80	-5.14	8.61	2.95	5.22	6.45	7.74
Population	2.60	2.33	2.07	1.69	1.34	1.19	1.17	1.15
Price								
Wholesale Price Index	N.A.	173.9	6,737.4	10.5	4.3	5.2	2.3	3.2
Consumer Price Index	59.1	163.4	7,481.7	11.1	3.8	3.7	1.6	2.0

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

Note : N.A. shows "not available"
 : PEN shows Nuevo Sol, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.15 Philippines

Energy Balance Table of Philippines in 2006

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	1,243	-	702	-	-	-	-	-	-
2 Import	4,073	-	10,354	4,957	1,080	-	276	77	2,132
3 Export	-	-	-678	-1,687	-42	-180	-	-	-303
4 International Marine Bunkers	-	-	-	-124	-	-	-	-	-42
5 Stock Changes	-	-	-80	-24	66	-36	-	-19	6
6 Total Primary Energy Supply	5,316	-	10,298	3,122	1,104	-217	276	58	1,793
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-3,714	-	-9,897	8,409	1,532	135	708	165	3,399
8.1 Main Activity Producer	-3,714	-	-	-1,032	-	-	-	-	-145
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-9,897	9,441	1,532	135	708	165	3,544
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-324	-	-	-	-	-	-
10. Discrepancy	-278	-	-77	-190	-74	82	-31	-5	-230
11 Total Final Energy Consumption	1,324	-	-	11,341	2,561	-	953	218	4,962
12 Industry Sector	1,324	-	-	1,618	-	-	-	18	474
13 Transport Sector	-	-	-	8,030	2,559	-	953	-	4,111
14 Other Sector	-	-	-	1,693	2	-	-	200	378
14.1 Residential & Commercial	-	-	-	1,457	-	-	-	195	165
14.2 Agriculture	-	-	-	20	0	-	-	5	10
14.3 Other	-	-	-	216	2	-	-	0	202
15 Non-energy	149	-	-	71	-	-	-	-	-

Energy Balance Table of Philippines in 2005

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	1,520	-	765	-	-	-	-	-	-
2 Import	3,710	-	10,301	4,931	1,129	-	246	93	2,137
3 Export	-	-	-738	-1,216	-82	-92	-	-	-161
4 International Marine Bunkers	-	-	-	-116	-	-	-	-	-20
5 Stock Changes	-	-	165	111	-41	18	-	22	87
6 Total Primary Energy Supply	5,230	-	10,493	3,709	1,005	-74	246	115	2,042
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-4,134	-	-9,958	8,126	1,596	124	672	209	3,067
8.1 Main Activity Producer	-4,134	-	-	-1,411	-	-	-	-	-200
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-9,958	9,537	1,596	124	672	209	3,267
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-445	-	-	-	-	-	-
10. Discrepancy	88	-	-90	264	141	-50	31	-43	141
11 Total Final Energy Consumption	1,184	-	-	12,099	2,742	-	949	280	5,250
12 Industry Sector	1,184	-	-	1,729	-	-	-	28	475
13 Transport Sector	-	-	-	8,585	2,741	-	949	-	4,415
14 Other Sector	-	-	-	1,786	1	-	-	253	360
14.1 Residential & Commercial	-	-	-	1,520	-	-	-	248	122
14.2 Agriculture	-	-	-	16	0	-	-	4	8
14.3 Other	-	-	-	249	1	-	-	1	230
15 Non-energy	127	-	-	59	-	-	-	-	-

Energy Balance Table of Philippines in 2006 (Continued)

											unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	2,530	855	-	9,005	7,044	-	-	21,378
670	646	-	-	76	-	-	-	-	1	-	-	19,385
-1,162	-	-	-	-	-	-	-	-	-	-	-	-2,365
-82	-	-	-	-	-	-	-	-	-	-	-	-124
-38	13	-	-	-15	-	-	-	-	-	-	-	-103
-612	659	-	-	61	2,530	855	-	9,005	7,045	-	-	38,171
-	-	-	-	-	-	-	-	-	-	-	-	-
2,125	346	-	-	-	-2,311	-855	-	-9,005	-1,252	4,883	-	-13,741
-887	-	-	-	-	-2,311	-855	-	-9,005	-	4,883	-	-12,033
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3,012	346	-	-	-	-	-	-	-	-	-	-	-456
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,252	-	-	-1,252
-	-	-	-	-	-193	-	-	-	-	-956	-	-1,473
85	-26	-	-	10	27	-	-	-	-0	-0	-	-519
1,597	979	-	-	71	53	-	-	-	5,793	3,928	-	22,438
985	71	-	-59	71	53	-	-	-	1,206	1,344	-	5,544
403	4	-	-	-	-	-	-	-	-	8	-	8,039
209	904	-	-	-	-	-	-	-	4,587	2,576	-	8,856
192	904	-	-	-	-	-	-	-	4,587	2,535	-	8,579
5	-	-	-	-	-	-	-	-	-	41	-	61
12	-	-	-	-	-	-	-	-	-	-	-	216
-	-	-	-	71	-	-	-	-	-	-	-	220

Energy Balance Table of Philippines in 2005 (Continued)

											unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	2,701	721	-	8,518	7,156	-	-	21,381
593	679	-	-	55	-	-	-	-	1	-	-	18,943
-877	-4	-	-	-	-	-	-	-	-	-	-	-1,954
-96	-	-	-	-	-	-	-	-	-	-	-	-116
17	1	-	-	7	-	-	-	-	-	-	-	275
-363	676	-	-	62	2,701	721	-	8,518	7,157	-	-	38,530
-	-	-	-	-	-	-	-	-	-	-	-	-
2,115	342	-	-	-	-2,492	-721	-	-8,518	-1,240	4,865	-	-14,072
-1,211	-	-	-	-	-2,492	-721	-	-8,518	-	4,865	-	-12,411
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3,326	342	-	-	-	-	-	-	-	-	-	-	-421
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-1,240	-	-	-1,240
-	-	-	-	-	-347	-	-	-	-	-981	-	-1,774
34	15	-	-	-3	150	-	-	-	-0	0	-	412
1,786	1,033	-	-	59	12	-	-	-	5,917	3,884	-	23,096
1,099	67	-	-87	59	12	-	-	-	1,164	1,325	-	5,414
479	1	-	-	-	0	-	-	-	-	8	-	8,592
208	965	-	-	-	-	-	-	-	4,753	2,550	-	9,090
186	965	-	-	-	-	-	-	-	4,753	2,508	-	8,782
4	-	-	-	-	-	-	-	-	-	42	-	59
17	-	-	-	-	-	-	-	-	-	-	-	249
-	-	-	-	59	-	-	-	-	-	-	-	186

Major Energy Indicators of Philippines

ktoe

	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	12,441	12,650	28,654	33,301	39,455	38,433	38,530	38,171
Indigenous Production	2,703	5,638	17,222	15,820	19,552	20,873	21,381	21,378
Import	10,525	7,360	12,555	18,709	21,760	19,782	18,943	19,385
Export	-133	-165	-641	-960	-1,753	-1,436	-1,954	-2,365
Final Energy Consumption	9,041	7,049	19,820	23,104	23,988	23,823	23,096	22,438
Industry	4,666	3,395	4,896	5,659	5,611	5,257	5,414	5,544
Transport	2,289	2,019	4,636	7,295	8,181	8,986	8,592	8,039
Residential & Commercial	1,129	1,093	10,005	9,831	9,898	9,269	8,782	8,579
Agriculture	-	-	90	62	45	64	59	61
Coal, Coal Products								
Primary Energy Supply	269	1,159	1,358	1,584	4,539	4,990	5,230	5,316
Indigenous Production	151	580	649	681	715	1,309	1,520	1,243
Import	118	579	709	903	3,824	3,681	3,710	4,073
Export	-	-	-	-	-	-	-	-
Transformation Sector	-47	-801	-559	-750	-3,784	-3,476	-4,134	-3,714
Power Generation	-47	-801	-559	-750	-3,784	-3,476	-4,134	-3,714
Final Energy Consumption	82	309	696	894	840	1,055	1,184	1,324
Industry	82	309	696	894	840	1,055	1,184	1,324
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	9,146	6,203	10,825	15,673	15,121	9,718	10,493	10,298
Indigenous Production	462	341	229	126	55	601	765	702
Import	8,684	6,236	10,597	15,755	15,033	9,667	10,301	10,354
Export	-	-	-	-91	-	-583	-738	-678
Transformation Sector	-8,809	-6,201	-10,242	-15,126	-14,721	-9,271	-9,958	-9,897
Petroleum Refineries	-8,809	-6,201	-10,242	-15,126	-14,721	-9,271	-9,958	-9,897
Petroleum Products								
Primary Energy Supply	937	572	125	1,031	1,013	4,762	3,709	3,122
Import	1,723	545	1,249	2,051	2,903	6,435	4,931	4,957
Export	-133	-165	-641	-869	-1,753	-854	-1,216	-1,687
Transformation Sector	5,522	4,208	7,939	11,081	12,333	7,055	8,126	8,409
Power Generation	-2,547	-1,586	-2,135	-3,825	-1,925	-1,876	-1,411	-1,032
Petroleum Refineries	8,069	5,794	10,074	14,906	14,258	8,931	9,537	9,441
Final Energy Consumption	7,671	5,302	8,178	11,856	13,078	12,861	12,099	11,341
Industry	3,878	2,312	2,439	2,918	2,664	1,815	1,729	1,618
Transport	2,289	2,019	4,636	7,293	8,177	8,980	8,585	8,030
Residential & Commercial	625	430	864	1,358	1,964	1,798	1,520	1,457
Agriculture	-	-	47	30	20	22	16	20
Natural Gas								
Primary Energy Supply	-	-	-	4	9	2,039	2,701	2,530
Indigenous Production	-	-	-	4	9	2,039	2,701	2,530
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-4	-9	-1,889	-2,492	-2,311
Power Generation	-	-	-	-4	-9	-1,889	-2,492	-2,311
Final Energy Consumption	-	-	-	-	-	0	12	53
Industry	-	-	-	-	-	-	12	53
Transport	-	-	-	-	-	0	0	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	1,538	1,873	2,264	2,886	3,895	4,812	4,865	4,883
Thermal	1,235	1,395	1,743	2,350	3,224	4,073	4,144	4,029
Hydro	303	478	521	536	671	739	721	855
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	1,287	1,438	1,824	2,287	3,144	3,791	3,884	3,928
Industry	706	775	855	942	1,135	1,264	1,325	1,344
Transport	-	-	-	2	5	6	8	8
Residential & Commercial	505	663	926	1,311	1,979	2,478	2,508	2,535
Agriculture	-	-	43	32	25	43	42	41

Major Economic Indicators of Philippines

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	48.09	54.32	61.23	68.59	76.21	82.87	84.57	86.26
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	47.58	44.62	56.23	62.59	75.91	90.06	94.45	99.59
Real Term (Billions of 2000 Price and 2000 PPP)	111.67	104.74	131.99	146.92	178.19	211.40	221.69	233.77
Nominal (Billions of Current USD)	32.45	30.73	44.31	74.12	75.91	86.93	98.72	117.56
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	989	821	918	913	996	1,087	1,117	1,154
Real Term (2000 Price and 2000 PPP)	2,322	1,928	2,156	2,142	2,338	2,551	2,622	2,710
Nominal (Current USD)	675	566	724	1,081	996	1,049	1,167	1,363
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	243.75	571.88	1,077.24	1,905.95	3,354.73	4,871.55	5,437.91	6,032.62
Household Final Consumption Expenditure, etc.	156.82	420.83	767.06	1,411.90	2,335.54	3,346.72	3,773.04	4,226.12
General Government Final Consumption Expenditure	22.10	43.52	108.84	217.04	438.86	492.11	521.66	587.46
Gross Fixed Capital Formation	66.35	94.17	248.95	423.20	710.49	784.07	783.40	834.41
Stock Change	4.55	-12.12	11.21	4.70	-0.42	31.91	10.58	30.12
Exports of Goods and Services	57.46	137.34	296.42	692.95	1,858.58	2,480.97	2,589.74	2,797.99
Imports of Goods and Services	69.40	125.20	358.55	842.07	1,794.72	2,659.01	2,816.24	2,873.56
Real GDP & its Components (Billions of 1985 PHP) *1								
Gross Domestic Product	609.77	571.88	720.69	802.22	972.96	1,154.29	1,210.50	1,276.43
Household Final Consumption Expenditure, etc.	397.40	420.83	531.77	622.99	752.07	903.81	947.56	999.22
General Government Final Consumption Expenditure	50.18	43.52	57.04	65.81	79.65	75.45	76.67	81.37
Gross Fixed Capital Formation	150.72	94.17	165.36	184.67	240.06	224.18	209.39	212.28
Stock Change	10.35	-12.12	7.59	2.46	-1.00	9.89	4.14	7.01
Exports of Goods and Services	167.52	137.34	217.86	344.18	445.67	539.95	565.74	629.09
Imports of Goods and Services	182.77	125.20	269.15	428.47	490.77	628.91	643.84	655.79
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	23.5	24.6	22.3	21.5	19.8	19.6	19.1	18.8
Industry	40.5	35.1	35.5	35.4	35.5	33.1	32.8	32.5
Services, etc.	36.0	40.4	42.2	43.1	44.8	47.3	48.1	48.7
Manufacturing Production Index (2000=100) *2	N.A.	17.0	34.0	68.5	100.0	131.6	145.1	147.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.741	4.607	8.117	17.502	39.783	39.681	41.255	47.037
Imports, c.i.f.	8.295	5.459	13.042	28.341	37.027	44.039	47.418	51.522
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.939	-0.482	-4.020	-8.944	-5.971	-5.684	-7.773	-6.732
Current Account	-1.917	-0.036	-2.695	-1.980	-2.225	1.633	1.984	4.830
Overall Balance	0.891	0.838	-0.045	1.235	-0.477	-0.303	1.662	5.242
Foreign Exchange Rate (PHP/USD) *1	7.5114	18.6073	24.3105	25.7145	44.1923	56.0399	55.0855	51.3143
Purchasing Power Parity (PHP/International Dollar) *1	4.0423	7.8379	10.0013	14.0865	18.8266	21.0563	21.7549	22.1807
Price Indices								
GDP Deflator (1985=100) *3	40.0	100.0	149.5	237.6	344.8	422.0	449.2	472.6
Wholesale Price Index (2000=100) *2	N.A.	N.A.	N.A.	70.5	100.0	139.9	152.6	169.6
Consumer Price Index (2000=100) *2	12.8	32.5	46.0	73.2	100.0	120.6	129.8	137.9
Growth Rate (%) *3								
Real GDP	5.15	-7.31	3.04	4.68	5.97	6.38	4.87	5.45
Population	2.63	2.43	2.38	2.22	2.12	2.09	2.05	2.01
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	4.2	17.6	12.0	9.1	11.2
Consumer Price Index	18.2	23.1	12.7	6.7	4.0	6.0	7.6	6.2

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

Note : N.A. shows "not available"
 : PHP shows Philippine Peso, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.16 Russia

Energy Balance Table of Russia in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	143,178	-	478,206	-	-	-	-	-	-
2 Import	14,159	36	2,332	44	7	-	-	-	-
3 Export	-50,013	-1,267	-249,687	-88,116	-6,748	-	-	-	-38,114
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	569	22	-2,149	-2,122	-187	-	-	-	-321
6 Total Primary Energy Supply	107,893	-1,208	228,702	-90,194	-6,928	-	-	-	-38,435
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-99,057	13,414	-225,826	205,478	36,813	11,986	11,291	77	64,841
8.1 Main Activity Producer	-55,112	-	-	-5,885	-	-	-	-	-
8.2 Autoproducers	-19,599	-6,913	-779	-10,102	-	-	-	-	-1,552
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-225,048	222,220	36,813	11,986	11,291	77	66,412
8.5 Coal Transformation	-24,346	20,327	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-754	-	-	-	-	-19
9. Loss & Own Use	-595	-585	-2,816	-12,462	-	-	-	-	-1,248
10. Discrepancy	0	2	0	0	0	-	-	-	-
11 Total Final Energy Consumption	8,241	11,622	59	102,822	29,885	11,986	11,291	77	25,158
12 Industry Sector	2,866	11,613	5	33,359	-	11,986	-	-	2,218
13 Transport Sector	-	-	12	57,219	29,885	-	11,291	-	14,883
14 Other Sector	5,375	9	42	12,244	-	-	-	77	8,056
14.1 Residential & Commercial	5,240	8	34	7,578	-	-	-	77	3,576
14.2 Agriculture	133	1	8	4,194	-	-	-	-	4,028
14.3 Other	3	-	-	471	-	-	-	-	452
15 Non-energy	238	326	-	22,522	-	11,986	-	-	-

Energy Balance Table of Russia in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	138,974	-	468,711	-	-	-	-	-	-
2 Import	12,299	106	2,438	27	9	-	-	-	1
3 Export	-43,650	-1,997	-253,850	-84,276	-6,338	-	-	-	-35,172
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-2,364	-30	-458	1,023	175	-	-	-	-170
6 Total Primary Energy Supply	105,259	-1,921	216,841	-83,226	-6,154	-	-	-	-35,341
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-96,669	11,805	-213,894	191,508	34,291	-	10,688	73	60,495
8.1 Main Activity Producer	-52,217	-	-	-5,102	-	-	-	-	-
8.2 Autoproducers	-19,909	-4,697	-766	-10,900	-	-	-	-	-1,608
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-213,129	207,510	34,291	-	10,688	73	62,103
8.5 Coal Transformation	-24,543	16,502	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-425	-142	-2,876	-12,495	-	-	-	-	-1,242
10. Discrepancy	21	6	0	-620	-	-	-	-	-0
11 Total Final Energy Consumption	8,185	9,749	70	95,167	28,138	-	10,688	73	23,912
12 Industry Sector	2,795	9,735	13	20,788	-	-	-	-	1,870
13 Transport Sector	-	-	19	53,842	28,138	-	10,688	-	14,000
14 Other Sector	5,390	14	38	20,537	-	-	-	73	7,982
14.1 Residential & Commercial	5,221	14	31	7,409	-	-	-	73	3,315
14.2 Agriculture	113	-	7	4,214	-	-	-	-	4,158
14.3 Other	56	-	-	8,913	-	-	-	-	509
15 Non-energy	316	351	-	10,559	-	-	-	-	-

Energy Balance Table of Russia in 2006 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	525,756	15,074	40,791	399	7,382	-	-	1,210,785
27	10	-	-	-	5,815	-	-	-	-	440	-	22,826
-41,912	-1,341	-	-	-	-163,852	-	-	-	-	-1,800	-	-554,735
-	-	-	-	-	-	-	-	-	-	-	-	-
-1,566	-49	-	-	-	-9,093	-	-	-	102	-	-	-12,670
-43,451	-1,380	-	-	-	358,625	15,074	40,791	399	7,484	-1,360	-	666,206
-	-	-	-	-	-	-	-	-	-	-	-	-
48,828	10,893	12,153	-	8,595	-211,312	-15,074	-40,791	-399	-4,713	85,638	153,548	-139,095
-5,885	-	-	-	-	-192,545	-14,972	-40,791	-399	-	81,275	53,214	-175,215
-7,535	-111	-904	-	-	-17,119	-102	-	-	-4,335	4,364	100,334	45,748
-	-	-	-	-	-	-	-	-	-	-	-	-
62,272	11,716	13,057	-	8,595	-	-	-	-	-	-	-	-2,828
-	-	-	-	-	-	-	-	-	-	-	-	-4,019
-24	-712	-	-	-	-1,648	-	-	-	-379	-	-	-2,781
-2,686	-20	-8,508	-	-	-16,649	-	-	-	-342	-25,678	-30,886	-90,014
0	-0	-0	-	-	0	-	-	-	0	-0	-	2
2,691	9,493	3,645	-	8,595	130,665	-	-	-	2,428	58,600	122,661	437,099
-860	5,201	3,622	-	8,595	31,868	-	-	-	363	30,406	47,219	157,699
680	479	-	-	-	33,560	-	-	-	-	7,385	-	98,176
274	3,813	23	-	-	43,818	-	-	-	2,065	20,809	75,443	159,804
211	3,691	23	-	-	43,331	-	-	-	1,824	19,343	72,313	149,671
44	122	-	-	-	487	-	-	-	240	1,442	3,118	9,623
19	-	-	-	-	-	-	-	-	1	24	12	510
-	2,869	-	-	7,667	21,699	-	-	-	-	-	-	44,785

Energy Balance Table of Russia in 2005 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	515,726	15,016	38,967	353	6,950	-	-	1,184,697
14	3	-	-	-	6,200	-	-	-	-	872	-	21,942
-41,508	-1,258	-	-	-	-167,386	-	-	-	-	-1,937	-	-553,094
-	-	-	-	-	-	-	-	-	-	-	-	-
1,019	-2	-	-	-	-4,950	-	-	-	-36	-	-	-6,816
-40,474	-1,257	-	-	-	349,591	15,016	38,967	353	6,914	-1,065	-	646,730
-	-	-	-	-	-	-	-	-	-	-	-	-
46,413	10,545	11,901	-	17,101	-205,791	-15,016	-38,967	-353	-4,054	81,965	140,089	-149,377
-5,102	-	-	-	-	-126,942	-14,920	-38,967	-353	-	77,903	52,745	-107,852
-8,060	-108	-1,124	-	-	-76,796	-96	-	-	-4,054	4,063	87,343	-25,811
-	-	-	-	-	-	-	-	-	-	-	-	-
59,575	10,654	13,025	-	17,101	-	-	-	-	-	-	-	-5,619
-	-	-	-	-	-	-	-	-	-	-	-	-8,042
-	-	-	-	-	-2,054	-	-	-	-	-	-	-2,054
-2,901	-19	-8,333	-	-	-15,775	-	-	-	-250	-25,003	-19,828	-76,794
-0	-620	-0	-	-	-0	-0	-	-	0	0	-	-594
3,038	8,649	3,568	-	17,101	128,025	-	-	-	2,611	55,898	120,261	419,965
-807	4,632	3,545	-	8,714	35,598	-	-	-	584	28,369	46,801	144,684
622	393	-	-	-	33,837	-	-	-	-	7,153	-	94,850
448	3,624	23	-15,818	629	42,657	-	-	-	2,026	20,376	73,460	164,498
377	3,621	23	-	-	41,693	-	-	-	1,743	18,908	70,214	145,234
53	3	-	-	-	549	-	-	-	283	1,448	3,234	9,849
17	-	-	-15,818	629	415	-	-	-	-	19	12	9,415
-	2,597	-	-	7,962	21,419	-	-	-	-	-	-	32,646

Major Energy Indicators of Russia

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	-	-	-	614,016	613,947	641,331	646,730	666,206
Indigenous Production	-	-	-	940,394	966,406	1,158,277	1,184,697	1,210,785
Import	-	-	-	25,461	31,550	23,759	21,942	22,826
Export	-	-	-	-339,830	-379,289	-534,768	-553,094	-554,735
Final Energy Consumption	-	-	-	461,895	422,916	425,185	419,965	437,099
Industry	-	-	-	167,417	150,377	154,250	160,617	179,118
Transport	-	-	-	81,858	79,956	95,002	94,850	98,176
Residential & Commercial	-	-	-	169,687	162,465	155,198	145,234	149,671
Agriculture	-	-	-	24,290	13,734	9,710	9,849	9,623
Coal, Coal Products								
Primary Energy Supply	-	-	-	102,186	110,815	104,139	103,338	106,685
Indigenous Production	-	-	-	103,569	117,020	130,063	138,974	143,178
Import	-	-	-	9,252	14,034	12,337	12,405	14,195
Export	-	-	-	-13,132	-21,748	-40,198	-45,646	-51,280
Transformation Sector	-	-	-	-78,497	-89,215	-86,745	-84,864	-85,643
Power Generation	-	-	-	-68,681	-80,809	-75,865	-76,822	-81,624
Final Energy Consumption	-	-	-	24,592	20,780	17,106	17,934	19,863
Industry	-	-	-	16,195	10,561	10,691	12,530	14,479
Transport	-	-	-	0	-	-	-	-
Residential & Commercial	-	-	-	6,198	8,783	5,408	5,235	5,248
Agriculture	-	-	-	268	252	113	113	133
Crude Oil								
Primary Energy Supply	-	-	-	189,332	183,850	202,424	216,841	228,702
Indigenous Production	-	-	-	306,632	323,300	458,494	468,711	478,206
Import	-	-	-	8,547	5,921	4,230	2,438	2,332
Export	-	-	-	-122,948	-145,136	-258,912	-253,850	-249,687
Transformation Sector	-	-	-	-183,189	-179,860	-198,273	-213,894	-225,826
Petroleum Refineries	-	-	-	-183,189	-178,793	-197,358	-213,129	-225,048
Petroleum Products								
Primary Energy Supply	-	-	-	-42,125	-53,752	-71,575	-83,226	-90,194
Import	-	-	-	3,174	312	581	27	44
Export	-	-	-	-46,465	-53,848	-72,120	-84,276	-88,116
Transformation Sector	-	-	-	140,129	155,815	178,467	191,508	205,478
Power Generation	-	-	-	-37,572	-22,175	-17,186	-16,002	-15,988
Petroleum Refineries	-	-	-	177,701	177,990	195,654	207,510	222,220
Final Energy Consumption	-	-	-	89,418	91,932	94,983	95,167	102,822
Industry	-	-	-	10,572	19,270	22,651	20,788	33,359
Transport	-	-	-	46,875	47,767	53,813	53,842	57,219
Residential & Commercial	-	-	-	5,669	5,449	5,258	7,409	7,578
Agriculture	-	-	-	10,425	5,903	4,348	4,214	4,194
Natural Gas								
Primary Energy Supply	-	-	-	316,635	319,008	346,584	349,591	358,625
Indigenous Production	-	-	-	480,551	470,739	509,217	515,726	525,756
Import	-	-	-	2,908	10,526	5,564	6,200	5,815
Export	-	-	-	-154,019	-156,592	-161,835	-167,386	-163,852
Transformation Sector	-	-	-	-189,787	-185,982	-206,204	-205,791	-211,312
Power Generation	-	-	-	-189,787	-185,982	-200,401	-203,738	-209,664
Final Energy Consumption	-	-	-	118,151	117,173	124,687	128,025	130,665
Industry	-	-	-	39,751	42,763	43,605	51,531	53,286
Transport	-	-	-	29,369	26,939	34,244	33,837	33,560
Residential & Commercial	-	-	-	47,594	45,579	45,434	41,693	43,331
Agriculture	-	-	-	636	506	473	549	487
Electricity								
Power Generation	-	-	-	74,096	75,704	80,140	81,965	85,638
Thermal	-	-	-	32,986	27,417	27,116	27,983	29,773
Hydro	-	-	-	15,171	14,222	15,289	15,016	15,074
Nuclear	-	-	-	25,939	34,065	37,735	38,967	40,791
Final Energy Consumption	-	-	-	53,176	52,333	55,516	55,898	58,600
Industry	-	-	-	27,005	26,867	28,732	28,369	30,406
Transport	-	-	-	5,604	5,239	6,908	7,153	7,385
Residential & Commercial	-	-	-	16,006	17,629	18,329	18,908	19,343
Agriculture	-	-	-	4,561	2,598	1,547	1,448	1,442

Major Economic Indicators of Russia

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	139.01	143.86	148.29	148.14	146.30	143.85	143.15	142.50
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	N.A.	N.A.	385.90	239.72	259.72	328.82	349.86	373.30
Real Term (Billions of 2000 Price and 2000 PPP)	N.A.	N.A.	1,660.66	1,031.57	1,117.63	1,415.00	1,505.56	1,606.44
Nominal (Billions of Current USD)	N.A.	N.A.	N.A.	313.33	259.72	591.67	764.38	984.93
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	N.A.	N.A.	2,602	1,618	1,775	2,286	2,444	2,620
Real Term (2000 Price and 2000 PPP)	N.A.	N.A.	11,199	6,963	7,639	9,837	10,517	11,273
Nominal (Current USD)	N.A.	N.A.	N.A.	2,115	1,775	4,113	5,340	6,912
Nominal GDP & its Components (Billions of Current RUR) *1								
Gross Domestic Product	N.A.	N.A.	0.64	1,428.50	7,305.60	17,048.10	21,620.10	26,781.10
Household Final Consumption Expenditure, etc.	N.A.	N.A.	0.31	744.10	3,374.30	8,554.00	10,765.20	13,044.50
General Government Final Consumption Expenditure	N.A.	N.A.	0.13	272.50	1,102.50	2,847.50	3,598.30	4,698.00
Gross Fixed Capital Formation	N.A.	N.A.	0.18	301.10	1,232.00	3,130.50	3,848.40	4,795.60
Stock Change	N.A.	N.A.	0.01	62.30	133.70	428.40	501.50	620.20
Exports of Goods and Services	N.A.	N.A.	0.12	418.40	3,218.90	5,860.40	7,592.10	9,069.10
Imports of Goods and Services	N.A.	N.A.	0.12	369.90	1,755.80	3,773.90	4,660.10	5,679.10
Real GDP & its Components (Billions of 2000 RUR) *1								
Gross Domestic Product	N.A.	N.A.	10,855.15	6,743.05	7,305.60	9,249.40	9,841.36	10,500.73
Household Final Consumption Expenditure, etc.	N.A.	N.A.	3,644.80	3,357.54	3,374.30	4,607.04	4,947.25	5,312.93
General Government Final Consumption Expenditure	N.A.	N.A.	1,466.92	1,031.55	1,102.50	1,172.12	1,197.91	1,224.26
Gross Fixed Capital Formation	N.A.	N.A.	6,142.42	1,542.16	1,232.00	1,772.97	1,920.13	2,187.03
Stock Change	N.A.	N.A.	771.03	304.46	133.70	198.74	193.54	209.88
Exports of Goods and Services	N.A.	N.A.	3,926.52	2,514.27	3,218.90	4,652.29	4,950.04	5,306.44
Imports of Goods and Services	N.A.	N.A.	4,678.68	1,901.89	1,755.80	3,466.00	4,055.22	4,935.20
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	N.A.	5.5	6.0	5.8	5.7	5.4	5.1
Industry	N.A.	N.A.	42.6	33.1	33.9	34.1	33.6	33.2
Services, etc.	N.A.	N.A.	37.8	49.6	49.7	49.5	49.8	50.2
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.	N.A.	81.095	105.565	183.207	243.569	304.520
Imports, c.i.f.	N.A.	N.A.	N.A.	60.945	44.659	97.382	125.303	163.867
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	N.A.	19.816	60.172	85.825	118.364	139.269
Current Account	N.A.	N.A.	N.A.	6.965	46.839	59.514	84.444	94.367
Overall Balance	N.A.	N.A.	N.A.	-8.326	13.923	46.890	64.968	107.466
Foreign Exchange Rate (RUR/USD) *1	N.A.	N.A.	N.A.	4.5591	28.1292	28.8137	28.2844	27.1910
Purchasing Power Parity (RUR/International Dollar) *1	N.A.	N.A.	0.0005	1.5037	6.5367	11.0088	12.7361	14.3293
Price Indices								
GDP Deflator (2000=100) *3	N.A.	N.A.	0.0	21.2	100.0	184.3	219.7	255.0
Producer Price Index (2000=100) *3	N.A.	N.A.	N.A.	236.5	46.5	23.3	20.6	12.4
Consumer Price Index (2000=100) *3	N.A.	N.A.	N.A.	20.6	100.0	177.2	199.7	219.1
Growth Rate (%)								
Real GDP (*3)	N.A.	N.A.	-3.00	-4.14	10.00	7.14	6.40	6.70
Population (*3)	0.71	0.78	0.39	-0.13	0.00	-0.52	-0.49	-0.45
Price (*2)								
Producer Price Index	N.A.	N.A.	N.A.	-29.8	-21.1	42.3	-11.9	-39.7
Consumer Price Index	N.A.	N.A.	N.A.	197.5	20.8	10.9	12.7	9.7

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

Note : N.A. shows "not available"
 : RUR shows Russian Ruble, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

Energy Price of Russia in 2006

Currency Exchange Rate

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

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	ton	2199	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	ton	604	Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel	ton	1738.77
Coke			Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil			Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil	ton	5711	Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG			Ethane			Ethane		
Naphtha			LPG			LPG		
Motor Gasoline			Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline	ton	18822	Motor Gasoline	litre	20.15
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil			Other Kerosene			Other Kerosene		
Fuel Oil			Gas/Diesel Oil	ton	16925	Gas/Diesel Oil		
White Spirit SBP			Fuel Oil	ton	5680	Fuel Oil		
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants	ton	28993	Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Natural Gas	1000 m3	1582	Natural Gas	per month for person	20.63
Compressed Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas	per month for person	71.53
Electricity			Compressed Natural Gas			Compressed Natural Gas	balloon 50 litre	250.43
Electricity			Electricity			Electricity		
Other Energy Products			Electricity			Industrial	100 kwh	101.56
			Other Energy Products			Commercial		
						Residential	100 kwh	129.87
						Others		
						Other Energy Products		

3.17 Singapore

Energy Balance Table of Singapore in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	-	-	-	-	-	-	-
2 Import	-	5	52,745	54,414	7,788	3,652	2,536	303	6,114
3 Export	-	-	-	-58,260	-10,858	-1,991	-7,479	-1,077	-16,673
4 International Marine Bunkers	-	-	-	-31,002	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	-	5	52,745	-34,848	-3,070	1,661	-4,943	-774	-10,558
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-	-5	-52,745	47,668	4,149	5,022	8,494	851	11,003
8.1 Main Activity Producer	-	-	-	-1,212	-	-	-	-	-130
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-5	-	-128	-	-128	-	-	-
8.4 Petroleum Refineries	-	-	-52,745	49,008	4,149	5,150	8,494	851	11,132
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-736	-	-	-	-	-
10. Discrepancy	-	-	-	-0	-0	-	0	-0	-0
11 Total Final Energy Consumption	-	-	-	12,084	1,079	6,683	3,552	77	445
12 Industry Sector	-	-	-	6,760	-	6,683	-	77	-
13 Transport Sector	-	-	-	5,075	1,079	-	3,552	-	445
14 Other Sector	-	-	-	250	-	-	-	-	-
14.1 Residential & Commercial	-	-	-	-	-	-	-	-	-
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	-	250	-	-	-	-	-
15 Non-energy	-	-	-	250	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Singapore in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	-	-	-	-	-	-	-
2 Import	-	1	54,738	46,639	7,525	4,046	2,456	480	3,854
3 Export	-	-	-	-55,719	-10,916	-2,630	-7,913	-1,450	-14,657
4 International Marine Bunkers	-	-	-	-28,096	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	-	1	54,738	-37,176	-3,391	1,416	-5,457	-970	-10,802
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-	-1	-54,738	49,632	4,387	5,220	8,744	1,046	11,247
8.1 Main Activity Producer	-	-	-	-1,724	-	-	-	-	-85
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-1	-	-128	-	-128	-	-	-
8.4 Petroleum Refineries	-	-	-54,738	51,484	4,387	5,348	8,744	1,046	11,332
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-766	-	-	-	-	-
10. Discrepancy	-	-	-	-2	-2	-0	-	0	0
11 Total Final Energy Consumption	-	-	-	11,688	995	6,636	3,287	77	445
12 Industry Sector	-	-	-	6,713	-	6,636	-	77	-
13 Transport Sector	-	-	-	4,726	995	-	3,287	-	445
14 Other Sector	-	-	-	250	-	-	-	-	-
14.1 Residential & Commercial	-	-	-	-	-	-	-	-	-
14.2 Agriculture	-	-	-	-	-	-	-	-	-
14.3 Other	-	-	-	250	-	-	-	-	-
15 Non-energy	-	-	-	250	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Singapore in 2006 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	-	-	-	-	295	-	-	295	
33,469	3	-	-	548	5,649	-	-	-	-	-	-	112,813	
-16,696	-705	-	-	-2,782	-	-	-	-	-	-	-	-58,260	
-31,002	-	-	-	-	-	-	-	-	-	-	-	-31,002	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-14,229	-702	-	-	-2,234	5,649	-	-	-	295	-	-	23,845	
-	-	-	-	-	-	-	-	-	-	-	-	-	
14,229	702	736	-	2,484	-5,541	-	-	-	-295	3,392	-	-7,525	
-1,082	-	-	-	-	-5,649	-	-	-	-295	3,392	-	-3,764	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	108	-	-	-	-	-	-	-25	
15,311	702	736	-	2,484	-	-	-	-	-	-	-	-3,736	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-736	-	-	-	-	-	-	-	-303	-	-1,039	
-	0	-	-	0	-0	-	-	-	-	-31	-	-31	
-	-	-	-	250	108	-	-	-	-	3,058	-	15,251	
-	-	-	-	-	46	-	-	-	-	1,294	-	8,100	
-	-	-	-	-	-	-	-	-	-	-	-	5,075	
-	-	-	-250	250	62	-	-	-	-	1,765	-	2,076	
-	-	-	-	-	62	-	-	-	-	1,761	-	1,823	
-	-	-	-	-	-	-	-	-	-	4	-	4	
-	-	-	-250	250	-	-	-	-	-	-	-	250	
-	-	-	-	250	-	-	-	-	-	-	-	250	

Energy Balance Table of Singapore in 2005 (Continued)

												unit: ktoe	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	-	-	-	-	194	-	-	194	
27,852	2	-	-	423	5,234	-	-	-	-	-	-	106,612	
-15,143	-741	-	-	-2,269	-	-	-	-	-	-	-	-55,719	
-28,096	-	-	-	-	-	-	-	-	-	-	-	-28,096	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-15,387	-739	-	-	-1,846	5,234	-	-	-	194	-	-	22,991	
-	-	-	-	-	-	-	-	-	-	-	-	-	
15,387	739	766	-	2,096	-5,138	-	-	-	-194	3,286	-	-7,153	
-1,639	-	-	-	-	-5,234	-	-	-	-194	3,286	-	-3,866	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	96	-	-	-	-	-	-	-34	
17,026	739	766	-	2,096	-	-	-	-	-	-	-	-3,253	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-766	-	-	-	-	-	-	-	-297	-	-1,063	
0	-0	-	-	0	-0	-	-	-	-	-29	-	-31	
-	-	-	-	250	96	-	-	-	-	2,960	-	14,744	
-	-	-	-	-	55	-	-	-	-	1,290	-	8,058	
-	-	-	-	-	-	-	-	-	-	-	-	4,726	
-	-	-	-250	250	41	-	-	-	-	1,670	-	1,960	
-	-	-	-	-	41	-	-	-	-	1,666	-	1,707	
-	-	-	-	-	-	-	-	-	-	4	-	4	
-	-	-	-250	250	-	-	-	-	-	-	-	250	
-	-	-	-	250	-	-	-	-	-	-	-	250	

Major Energy Indicators of Singapore

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	1,976	8,774	9,896	15,203	20,421	20,584	22,991	23,845
Indigenous Production	2	3	19	50	101	44	194	295
Import	29,359	38,352	59,503	79,202	79,752	94,942	106,612	112,813
Export	-22,640	-24,836	-36,556	-47,342	-39,565	-48,505	-55,719	-58,260
Final Energy Consumption	2,070	3,356	5,322	7,477	9,367	13,218	14,744	15,251
Industry	343	1,025	1,907	2,589	3,514	6,861	8,058	8,100
Transport	1,346	1,715	2,368	3,680	4,159	4,480	4,726	5,075
Residential & Commercial	294	434	763	980	1,441	1,624	1,707	1,823
Agriculture	-	-	-	2	3	3	4	4
Coal, Coal Products								
Primary Energy Supply	-	-	-	0	0	6	1	5
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	17	0	6	1	5
Export	-	-	-	-16	-0	-	-	-
Transformation Sector	-	-	-	-	-	-6	-1	-5
Power Generation	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	24,182	28,389	41,286	51,984	41,585	44,035	54,738	52,745
Indigenous Production	-	-	-	-	-	-	-	-
Import	24,255	28,472	41,286	52,046	41,585	44,035	54,738	52,745
Export	-73	-82	-0	-62	-	-	-	-
Transformation Sector	-30,180	-34,886	-43,571	-51,984	-41,585	-44,035	-54,738	-52,745
Petroleum Refineries	-30,180	-34,886	-43,571	-51,984	-41,585	-44,035	-54,738	-52,745
Petroleum Products								
Primary Energy Supply	-22,200	-19,615	-31,409	-38,007	-22,207	-28,162	-37,176	-34,848
Import	5,104	9,880	18,217	25,964	37,225	46,239	46,639	54,414
Export	-22,559	-24,750	-36,555	-47,264	-39,565	-48,505	-55,719	-58,260
Transformation Sector	25,754	29,580	36,072	43,151	32,613	38,923	49,632	47,668
Power Generation	-1,575	-2,021	-3,388	-3,460	-5,563	-2,426	-1,724	-1,212
Petroleum Refineries	27,381	31,651	39,530	46,710	38,305	41,477	51,484	49,008
Final Energy Consumption	1,506	2,559	4,046	5,653	6,757	10,261	11,688	12,084
Industry	73	663	1,296	1,763	2,372	5,559	6,713	6,760
Transport	1,346	1,715	2,352	3,663	4,135	4,453	4,726	5,075
Residential & Commercial	-	-	115	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Natural Gas								
Primary Energy Supply	-	-	-	1,176	942	4,662	5,234	5,649
Indigenous Production	-	-	-	-	-	-	-	-
Import	-	-	-	1,176	942	4,662	5,234	5,649
Export	-	-	-	-	-	-	-	-
Transformation Sector	43	40	56	-1,090	-836	-4,558	-5,138	-5,541
Power Generation	-	-	-	-1,176	-942	-4,662	-5,234	-5,649
Final Energy Consumption	38	38	55	84	105	104	96	108
Industry	16	16	32	53	66	60	55	46
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	22	21	23	30	39	45	41	62
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	599	853	1,343	1,913	2,723	3,083	3,286	3,392
Thermal	599	853	1,343	1,913	2,723	3,083	3,286	3,392
Hydro	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	525	758	1,221	1,741	2,505	2,853	2,960	3,058
Industry	253	346	580	772	1,076	1,242	1,290	1,294
Transport	-	-	16	17	25	28	-	-
Residential & Commercial	272	413	625	949	1,401	1,579	1,666	1,761
Agriculture	-	-	-	2	3	3	4	4

Major Economic Indicators of Singapore

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	2.41	2.74	3.05	3.52	4.03	4.24	4.34	4.48
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	21.83	29.73	44.66	68.23	92.72	105.75	112.75	121.63
Real Term (Billions of 2000 Price and 2000 PPP)	30.92	42.12	63.27	96.66	131.35	149.81	159.73	172.31
Nominal (Billions of Current USD)	11.73	17.74	36.84	84.29	92.72	107.41	116.70	132.16
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	9,042	10,866	14,658	19,359	23,019	24,950	25,968	27,125
Real Term (2000 Price and 2000 PPP)	12,810	15,394	20,766	27,425	32,610	35,346	36,788	38,428
Nominal (Current USD)	4,859	6,485	12,091	23,915	23,019	25,342	26,879	29,474
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	25.12	39.04	66.78	119.47	159.84	181.54	194.24	209.99
Household Final Consumption Expenditure, etc.	12.91	17.55	30.90	50.49	67.53	79.17	81.47	84.32
General Government Final Consumption Expenditure	2.45	5.54	6.76	10.10	17.34	19.36	20.88	23.81
Gross Fixed Capital Formation	10.23	16.55	22.00	40.33	48.90	43.20	43.34	48.41
Stock Change	1.42	0.13	2.77	0.87	4.32	-7.91	-6.36	-8.92
Exports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	418.67	474.53	530.41
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	368.52	417.27	463.92
Real GDP & its Components (Billions of 1995 SGD) *1								
Gross Domestic Product	37.63	51.25	77.00	117.63	159.84	182.30	194.37	209.68
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	79.20	81.15	N.A.
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	18.99	20.23	N.A.
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	44.39	43.54	N.A.
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	-8.77	-7.60	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 (%) *3								
Agriculture, Fishery and Forest	1.0	0.7	0.3	0.2	0.1	0.1	0.1	0.1
Industry	35.6	32.9	32.5	32.6	33.1	30.8	31.2	31.9
Services, etc.	55.3	58.5	59.1	59.5	59.8	62.1	62.0	61.4
Manufacturing Production Index (2000=100) *2	24.4	26.1	47.7	70.7	100.0	112.2	122.8	137.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	19.376	22.812	52.730	118.268	137.804	198.637	229.620	271.772
Imports, c.i.f.	24.007	26.285	60.774	124.507	134.545	173.599	200.030	238.652
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-2.971	-1.518	-1.633	8.459	13.956	32.880	36.687	44.747
Current Account	-1.563	-0.004	3.122	14.373	10.728	21.559	28.569	36.326
Overall Balance	0.663	1.337	5.431	8.637	6.822	12.193	12.315	17.008
Foreign Exchange Rate (SGD/USD) *1	2.1412	2.2001	1.8125	1.4174	1.7240	1.6902	1.6644	1.5889
Purchasing Power Parity (SGD/International Dollar) *1	1.5042	1.3304	1.2933	1.3421	1.2169	1.1073	1.0786	1.0475
Price Indices								
GDP Deflator (1995=100) *3	66.7	76.2	86.7	101.6	100.0	99.6	99.9	100.1
Wholesale Price Index (2000=100) *2	121.9	113.5	106.1	92.7	100.0	104.0	114.0	119.7
Consumer Price Index (2000=100) *2	67.4	79.1	84.3	95.6	100.0	102.8	103.2	104.3
Growth Rate (%) *3								
Real GDP	9.71	-1.44	9.22	8.15	10.06	8.80	6.62	7.88
Population	1.26	0.15	3.96	3.09	1.75	1.25	2.44	3.27
Price								
Wholesale Price Index	19.6	-2.2	1.7	0.0	10.1	5.1	9.7	5.0
Consumer Price Index	8.5	0.5	3.5	1.7	1.4	1.7	0.4	1.0

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

Note : N.A. shows "not available"
 : SGD shows Singapore Dollar, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.18 Chinese Taipei

Energy Balance Table of Chinese Taipei in 2006

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	-	-	21	-	-	-	-	-	-
2 Import	40,872	225	52,199	11,173	20	6,389	-	-	73
3 Export	-	-	-	-14,937	-3,582	-	-1,818	-	-7,826
4 International Marine Bunkers	-	-	-	-2,330	-	-	-	-	-193
5 Stock Changes	-28	-	-293	-725	-125	-82	-151	-1	-159
6 Total Primary Energy Supply	40,844	225	51,927	-6,818	-3,687	6,307	-1,968	-1	-8,105
7 Transfers	-	-	-	2,336	4,895	-3,724	-	-	65
8 Total Transformation Sector	-33,342	1,914	-52,244	48,932	6,742	9,470	4,463	-	13,535
8.1 Main Activity Producer	-22,379	-	-	-3,188	-	-	-	-	-246
8.2 Autoproducers	-6,739	-532	-	-1,371	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-52,244	53,491	6,742	9,470	4,463	-	13,781
8.5 Coal Transformation	-4,225	2,447	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-2,629	-4	-	-0	-0	-30
10. Discrepancy	-2,258	-129	316	-3,023	92	261	-181	15	-278
11 Total Final Energy Consumption	5,244	2,010	-	38,798	8,037	12,314	2,314	14	5,188
12 Industry Sector	5,244	2,010	-	19,635	6	12,314	1	6	180
13 Transport Sector	-	-	-	14,680	7,987	-	2,301	-	4,113
14 Other Sector	-	-	-	4,483	44	-	12	8	895
14.1 Residential & Commercial	-	-	-	2,234	43	-	12	8	360
14.2 Agriculture	-	-	-	4	0	-	-	-	1
14.3 Other	-	-	-	2,245	-	-	-	-	534
15 Non-energy	9	-	-	1,695	-	-	-	-	-

Energy Balance Table of Chinese Taipei in 2005

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	-	-	29	-	-	-	-	-	-
2 Import	39,704	12	54,576	7,864	39	5,614	-	-	-
3 Export	-	-	-	-15,590	-3,753	-	-1,657	-	-7,783
4 International Marine Bunkers	-	-	-	-2,437	-	-	-	-	-275
5 Stock Changes	-463	-68	-302	204	152	56	-35	17	8
6 Total Primary Energy Supply	39,240	-57	54,303	-9,960	-3,561	5,670	-1,692	17	-8,049
7 Transfers	-	-	-	2,193	5,686	-4,589	-	-	43
8 Total Transformation Sector	-32,213	1,996	-54,431	50,566	6,062	10,303	4,137	-	13,426
8.1 Main Activity Producer	-21,458	-	-	-2,447	-	-	-	-	-141
8.2 Autoproducers	-6,587	-540	-	-1,435	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-54,431	54,448	6,062	10,303	4,137	-	13,567
8.5 Coal Transformation	-4,167	2,535	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-2,734	-4	-	-0	-0	-33
10. Discrepancy	-2,209	-51	128	-1,329	64	690	-187	-0	-75
11 Total Final Energy Consumption	4,818	1,888	-	38,737	8,247	12,075	2,258	16	5,312
12 Industry Sector	4,818	1,888	-	19,394	8	12,075	1	7	141
13 Transport Sector	-	-	-	14,586	8,191	-	2,242	0	3,915
14 Other Sector	-	-	-	4,757	48	-	14	10	1,257
14.1 Residential & Commercial	-	-	-	2,316	47	-	14	10	396
14.2 Agriculture	-	-	-	4	0	-	-	-	1
14.3 Other	-	-	-	2,436	-	-	-	-	859
15 Non-energy	60	-	-	1,557	-	-	-	-	-

Energy Balance Table of Chinese Taipei in 2006 (Continued)

												unit: ktce	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	412	685	10,390	108	1,773	-	-	13,389	
2,323	1,273	-	-	1,097	10,673	-	-	-	-	-	-	115,142	
-318	-374	-	-	-1,020	-	-	-	-	-	-	-	-14,937	
-2,134	-	-	-	-3	-	-	-	-	-	-	-	-2,330	
-173	-34	-	-	-	-128	-	-	-	-	-	-	-1,173	
-302	866	-	-	73	10,957	685	10,390	108	1,773	-	-	110,091	
1,100	-	-	-	-	-	-	-	-	-	-	-	2,336	
7,557	1,901	1,372	-	3,893	-8,489	-685	-10,390	-16	-1,773	20,242	-	-35,850	
-2,942	-	-	-	-	-7,574	-685	-10,390	-15	-	16,777	-	-27,455	
-810	-	-39	-	-522	-163	-	-	-0	-1,773	3,465	-	-7,114	
-	-	-	-	-	-751	-	-	-	-	-	-	-751	
11,309	1,901	1,411	-	4,415	-	-	-	-	-	-	-	1,248	
-	-	-	-	-	-	-	-	-	-	-	-	-1,778	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-834	-390	-1,372	-	-	-304	-	-	-	-	-2,946	-	-5,879	
-2,541	-264	-	-	-126	-155	-	-	-	-	-0	-	-5,248	
4,979	2,112	-	-	3,840	2,010	-	-	92	-	17,296	-	65,449	
4,271	712	-	-	2,144	900	-	-	-	-	9,327	-	37,116	
223	56	-	-	-	-	-	-	-	-	88	-	14,768	
484	1,345	-	-1,557	1,695	1,110	-	-	92	-	7,880	-	13,565	
466	1,345	-	-	-	1,110	-	-	92	-	7,656	-	11,093	
2	0	-	-	-	-	-	-	-	-	133	-	137	
16	-	-	-1,557	1,695	-	-	-	-	-	91	-	2,336	
-	-	-	-	1,695	-	-	-	-	-	-	-	1,705	

Energy Balance Table of Chinese Taipei in 2005 (Continued)

												unit: ktce	
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12	
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	-	487	680	10,417	96	1,443	-	-	13,152	
126	1,087	-	-	998	9,842	-	-	-	-	-	-	111,997	
-448	-437	-	-	-1,513	-	-	-	-	-	-	-	-15,590	
-2,157	-	-	-	-5	-	-	-	-	-	-	-	-2,437	
-41	47	-	-	-	147	-	-	-	-	-	-	-483	
-2,520	697	-	-	-520	10,476	680	10,417	96	1,443	-	-	106,638	
1,053	-	-	-	-	-	-	-	-	-	-	-	2,193	
8,930	1,948	1,462	-	4,297	-8,113	-680	-10,417	-8	-1,443	19,561	-	-35,182	
-2,306	-	-	-	-	-7,340	-680	-10,417	-7	-	16,100	-	-26,249	
-879	-	-44	-	-512	-178	-	-	-1	-1,443	3,461	-	-6,724	
-	-	-	-	-	-595	-	-	-	-	-	-	-595	
12,115	1,948	1,507	-	4,809	-	-	-	-	-	-	-	17	
-	-	-	-	-	-	-	-	-	-	-	-	-1,632	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-874	-361	-1,462	-	-	-321	-	-	-	-	-2,070	-	-5,125	
-1,610	-139	0	-	-72	-56	-	-	-	-	-757	-	-4,273	
4,979	2,145	-	-	3,705	1,986	-	-	88	-	16,734	-	64,251	
4,329	685	-	-	2,148	862	-	-	-	-	8,911	-	35,873	
199	39	-	-	-	-	-	-	-	-	115	-	14,701	
451	1,421	-	-1,464	1,557	1,124	-	-	88	-	7,709	-	13,677	
428	1,421	-	-	-	1,124	-	-	88	-	7,494	-	11,023	
3	0	-	-	-	-	-	-	-	-	122	-	127	
20	-	-	-1,464	1,557	-	-	-	-	-	92	-	2,528	
-	-	-	-	1,557	-	-	-	-	-	-	-	1,617	

Major Energy Indicators of Chinese Taipei

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	25,092	32,573	45,989	62,407	79,272	104,316	106,638	110,091
Indigenous Production	5,654	10,340	10,748	10,913	11,476	13,087	13,152	13,389
Import	20,642	23,922	39,723	57,083	78,713	109,100	111,997	115,142
Export	-297	-1,562	-335	-1,350	-2,294	-13,040	-15,590	-14,937
Final Energy Consumption	16,997	21,305	29,814	38,998	53,848	63,896	64,251	65,449
Industry	9,922	12,180	15,667	19,946	29,393	36,982	35,873	37,116
Transport	3,320	4,287	7,248	10,630	12,455	13,789	14,701	14,768
Residential & Commercial	2,567	3,478	4,992	6,678	9,041	10,478	11,023	11,093
Agriculture	764	896	1,033	1,022	948	126	127	137
Coal, Coal Products								
Primary Energy Supply	1,571	6,734	10,562	16,041	27,493	36,453	39,183	41,069
Indigenous Production	1,516	1,094	278	139	49	-	-	-
Import	37	6,251	11,389	17,655	27,911	37,794	39,715	41,097
Export	-5	-5	-0	-	-	-	-	-
Transformation Sector	-785	-2,980	-4,641	-8,156	-18,605	-28,709	-30,217	-31,428
Power Generation	-1,489	-3,308	-5,145	-8,820	-19,428	-26,984	-28,585	-29,650
Final Energy Consumption	1,799	3,724	5,903	7,881	8,391	6,833	6,706	7,254
Industry	1,712	3,659	5,897	7,881	8,339	6,833	6,706	7,254
Transport	3	0	-	-	-	-	-	-
Residential & Commercial	75	60	6	-	0	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	17,839	17,107	20,512	28,885	36,188	52,372	54,303	51,927
Indigenous Production	181	101	156	53	32	40	29	21
Import	17,605	16,106	21,105	28,679	36,876	52,601	54,576	52,199
Export	-	-	-	-	-	-	-	-
Transformation Sector	-17,839	-17,107	-20,512	-28,885	-36,188	-52,282	-54,431	-52,244
Petroleum Refineries	-17,839	-17,107	-20,512	-28,885	-36,188	-52,282	-54,431	-52,244
Petroleum Products								
Primary Energy Supply	1,725	-413	3,918	3,872	-803	-6,730	-9,960	-6,818
Import	3,001	1,565	6,467	7,795	8,757	9,258	7,864	11,173
Export	-292	-1,557	-335	-1,350	-2,294	-13,040	-15,590	-14,937
Transformation Sector	10,661	15,019	14,359	19,573	33,331	48,054	50,566	48,932
Power Generation	-5,217	-1,125	-4,825	-6,653	-6,171	-3,706	-3,882	-4,559
Petroleum Refineries	15,878	16,143	19,184	26,226	39,502	51,760	54,448	53,491
Final Energy Consumption	10,688	12,640	16,618	20,538	30,197	39,004	38,737	38,798
Industry	5,049	5,595	5,803	6,712	12,868	20,611	19,394	19,635
Transport	3,290	4,255	7,210	10,590	12,362	13,676	14,586	14,680
Residential & Commercial	1,232	1,530	1,836	1,667	2,255	2,285	2,316	2,234
Agriculture	701	799	895	846	754	4	4	4
Natural Gas								
Primary Energy Supply	1,569	1,063	1,728	3,642	5,596	9,869	10,476	10,957
Indigenous Production	1,569	1,063	1,045	754	598	695	487	412
Import	-	-	762	2,953	5,169	9,447	9,842	10,673
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-1,232	-2,027	-3,378	-7,529	-8,113	-8,489
Power Generation	-	-	-241	-1,210	-3,393	-6,975	-7,518	-7,738
Final Energy Consumption	1,339	872	926	1,534	1,490	1,891	1,986	2,010
Industry	1,078	449	392	841	682	854	862	900
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	261	423	534	693	808	1,037	1,124	1,110
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	3,664	4,778	7,481	10,570	15,897	18,782	19,561	20,242
Thermal	1,276	-3,304	-1,788	603	5,101	7,927	8,464	9,166
Hydro	252	596	704	764	763	564	680	685
Nuclear	2,137	7,486	8,565	9,203	10,034	10,291	10,417	10,390
Final Energy Consumption	3,171	4,069	6,367	9,045	13,770	16,084	16,734	17,296
Industry	2,083	2,476	3,575	4,511	7,504	8,684	8,911	9,327
Transport	26	31	37	40	94	113	115	88
Residential & Commercial	999	1,465	2,616	4,318	5,978	7,071	7,494	7,656
Agriculture	63	97	139	176	195	122	122	133

Major Economic Indicators of Chinese Taipei

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	17.81	19.26	20.35	21.30	22.22	22.62	22.69	22.79
Gross Domestic Product *2								
Real Term (Billions of 2000 Price and 2000 USD)	75.13	104.03	161.83	229.52	304.09	342.00	356.23	373.64
Real Term (Billions of 2000 Price and 2000 PPP)	120.83	167.31	260.26	369.14	489.07	550.04	572.93	600.93
Nominal (Billions of Current USD)	42.27	63.42	163.18	265.96	304.09	346.70	348.70	364.72
GDP per Capita *2								
Real Term (2000 Price and 2000 USD)	4,220	5,402	7,951	10,774	13,688	15,123	15,700	16,395
Real Term (2000 Price and 2000 PPP)	6,786	8,688	12,788	17,327	22,014	24,322	25,250	26,368
Nominal (Current USD)	2,374	3,293	8,017	12,484	13,688	15,330	15,368	16,003
Nominal GDP & its Components (Billions of Current TWD) *1								
Gross Domestic Product	1,522.27	2,527.48	4,423.74	7,252.76	10,032.00	11,065.55	11,454.73	11,889.82
Private Consumption, etc.	785.92	1,291.13	2,416.94	4,219.88	6,087.24	6,718.93	7,022.57	7,182.82
General Government Consumption	248.17	417.25	776.56	1,088.51	1,391.55	1,465.29	1,498.30	1,503.35
Fixed Investment	458.48	472.59	987.07	1,800.90	2,394.00	2,420.15	2,438.44	2,517.66
Stock Change	47.47	5.02	28.54	26.85	-60.40	86.84	10.84	11.68
Exports of Goods & NF Services	783.27	1,346.52	2,021.48	3,423.65	5,392.44	6,978.14	7,358.02	8,304.60
Imports of Goods & NF Services	801.03	1,005.03	1,806.85	3,307.04	5,172.83	6,603.81	6,873.43	7,630.19
Real GDP & its Components (Billions of 2001 TWD) *1								
Gross Domestic Product	2,490.66	3,448.65	5,364.73	7,609.03	10,081.06	11,337.83	11,809.55	12,386.80
Private Consumption, etc.	1,371.09	1,891.71	3,138.11	4,549.01	6,088.18	6,665.77	6,865.20	6,985.99
General Government Consumption	518.36	688.43	1,051.45	1,231.14	1,397.06	1,433.87	1,449.40	1,443.44
Fixed Investment	533.52	547.97	1,025.15	1,728.68	2,384.93	2,345.75	2,373.59	2,388.39
Stock Change	44.72	3.76	29.34	23.86	-58.26	78.45	9.29	10.40
Exports of Goods & NF Services	804.38	1,275.25	2,179.60	3,381.18	5,379.95	6,932.46	7,460.90	8,234.72
Imports of Goods & NF Services	781.41	958.47	2,058.92	3,304.85	5,110.80	6,118.46	6,348.82	6,676.13
Sectional Shares of Real GDP (%) *2								
Agriculture, Fishery and Forest	8.4	5.6	4.0	3.3	2.0	1.6	1.7	1.6
Industry	42.8	43.8	38.4	32.8	29.1	27.6	27.1	26.8
Services, etc.	48.8	50.6	57.6	63.9	68.9	70.8	71.3	71.5
Industrial Production Index (2000=100) *2	33.1	44.0	59.9	77.9	100.0	117.0	122.4	128.5
External Trade (Billions of Current USD) *1								
Exports	19.811	30.726	67.214	113.342	151.950	182.370	198.432	224.017
Imports, c.i.f.	19.733	20.102	54.716	104.012	140.732	168.758	182.614	202.698
Balance of Payments (Billions of Current USD) *1								
Trade Balance	0.078	11.151	14.807	13.235	13.672	16.113	17.897	23.404
Current Account	-0.913	9.204	10.923	5.474	8.899	18.478	16.019	24.661
Overall Balance	-0.319	6.525	-3.918	-3.931	2.477	26.595	20.056	6.086
Foreign Exchange Rate (TWD/USD) *1	36.01	39.85	27.11	27.27	32.99	31.92	32.85	32.60
Purchasing Power Parity (TWD/International Dollar) *2	N.A.	N.A.	N.A.	N.A.	20.5123	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (2001=100) *2	61.1	73.3	82.5	95.3	99.5	97.6	97.0	96.0
Wholesale Price Index (2006=100) *2	87.8	91.2	83.1	90.2	86.9	94.1	94.7	100.0
Consumer Price Index (2006=100) *2	55.2	66.8	74.5	89.6	96.1	97.2	99.4	100.0
Growth Rate (%) *2								
Real GDP	7.36	5.02	5.70	6.49	5.77	6.15	4.16	4.89
Population	1.87	1.29	1.22	0.84	0.83	0.36	0.33	0.44
Price								
Wholesale Price Index	21.6	-2.6	-0.6	21.9	1.8	7.0	0.6	5.6
Consumer Price Index	19.0	-0.1	4.1	3.7	1.3	1.6	2.3	0.6

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

*2: Estimation from *1 by the Coordinating Agency

Note : N.A. shows "not available"

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

: PPP shows Purchasing Power Parity

Energy Price of Chinese Taipei in 2006

Currency Exchange Rate

	Local currency /	
Currency Exchange Rate	USD	
Local Currency Unit		NTD

IMPORT PRICES

WHOLESALE PRICES

CONSUMER PRICES

	Unit	Amount		Unit	Amount		Unit	Amount
Coal and Coal Products			Coal and Coal Products			Coal and Coal Products		
Coking Coal	USD/ton	109.65	Coking Coal			Coking Coal		
Anthracite	USD/ton	67.11	Anthracite			Anthracite		
Other bituminous coal	USD/ton	54.63	Other bituminous coal			Other bituminous coal		
Sub-bituminous Coal	USD/ton	44.83	Sub-bituminous Coal			Sub-bituminous Coal		
Lignite			Lignite			Lignite		
Peat			Peat			Peat		
Patent Fuel			Patent Fuel			Patent Fuel		
Coke	USD/ton	57.46	Coke			Coke		
Coal Tar			Coal Tar			Coal Tar		
BKB/PB			BKB/PB			BKB/PB		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil	USD/bbl	60.51	Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil			Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG	USD/ton	544.64	Ethane			Ethane		
Naphtha	USD/ton	579.02	LPG	NTD/kg	21.41	LPG	NTD/kg	21.41
Motor Gasoline			Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline	NTD/L	24.82	Motor Gasoline	NTD/L	27.87
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel			Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene			Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil			Other Kerosene	NTD/L	31.50	Other Kerosene	NTD/L	31.50
Fuel Oil	USD/kL	379.65	Gas/Diesel Oil	NTD/L	21.77	Gas/Diesel Oil	NTD/L	23.70
White Spirit SBP			Fuel Oil	NTD/L	12.09	Fuel Oil	NTD/L	12.27
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas	USD/ton	478.01	Natural Gas	NTD/m ³	13.43	Natural Gas	NTD/m ³	14.12
Compressed Natural Gas			Liquefied Natural Gas	NTD/m ³	14.94	Liquefied Natural Gas		
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity		
Other Energy Products			Electricity	NTD/kWh	2.10	Industrial	NTD/kWh	1.88
			Other Energy Products			Commercial	NTD/kWh	3.10
						Residential	NTD/kWh	2.10
						Others		
						Other Energy Products		

3.19 Thailand

Energy Balance Table of Thailand in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	4,750	-	10,283	2,453	-	-	-	-	-
2 Import	4,005	3,092	41,773	1,382	-	-	28	-	315
3 Export	-	-	-3,349	-6,836	-1,432	-	-831	-31	-2,534
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	2,414	-490	34	-	-82	-908	733
6 Total Primary Energy Supply	8,755	3,092	51,122	-3,491	-1,398	-	-885	-939	-1,486
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-4,816	-	-48,094	35,239	6,773	-	4,578	958	17,286
8.1 Main Activity Producer	-4,816	-	-	-1,938	-	-	-	-	-35
8.2 Autoproducers	-	-	-	-8	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-48,094	37,439	6,773	-	4,578	958	17,322
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-254	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	769	-231	-227	-98	3	-	-3	1	1
11 Total Final Energy Consumption	4,709	2,861	2,801	31,650	5,378	-	3,690	19	15,801
12 Industry Sector	4,709	2,861	227	3,449	30	-	-	11	777
13 Transport Sector	-	-	-	22,895	5,296	-	3,690	-	11,795
14 Other Sector	-	-	-	5,306	53	-	-	8	3,230
14.1 Residential & Commercial	-	-	-	2,016	-	-	-	8	-
14.2 Agriculture	-	-	-	3,290	53	-	-	-	3,230
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	2,801	608	-	-	-	-	-

Energy Balance Table of Thailand in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	5,220	-	9,893	-	-	-	-	-	-
2 Import	4,281	1,180	41,693	1,980	2	-	-	-	620
3 Export	-	-	-3,453	-5,516	-1,506	-	-490	-4	-1,559
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	1,418	-2,370	-51	-	-44	-911	-894
6 Total Primary Energy Supply	9,501	1,180	49,550	-5,905	-1,555	-	-534	-915	-1,833
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-4,725	-	-46,494	34,166	6,877	-	3,952	934	16,877
8.1 Main Activity Producer	-4,725	-	-	-1,951	-	-	-	-	-72
8.2 Autoproducers	-	-	-	-16	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-46,494	36,365	6,877	-	3,952	934	16,949
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-232	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	887	-15	-10	4,273	79	-	89	73	1,774
11 Total Final Energy Consumption	5,663	1,164	3,046	32,534	5,401	-	3,507	92	16,818
12 Industry Sector	5,663	1,164	482	4,032	39	-	-	85	967
13 Transport Sector	-	-	-	23,436	5,312	-	3,507	-	12,721
14 Other Sector	-	-	-	5,066	51	-	-	7	3,130
14.1 Residential & Commercial	-	-	-	1,880	-	-	-	7	-
14.2 Agriculture	-	-	-	3,187	51	-	-	-	3,130
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	3,046	661	-	-	-	-	-

Energy Balance Table of Thailand in 2006 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	2,453	-	-	-	14,144	699	-	2	18,053	-	-	50,383
1,040	-	-	-	-	7,952	-	-	-	23	444	-	58,672
-1,336	-672	-	-	-	-	-	-	-	-3	-65	-	-10,253
-	-	-	-	-	-	-	-	-	-	-	-	-
-132	-135	-	-	-	-	-	-	-	-	-	-	1,924
-427	1,645	-	-	-	22,097	699	-	2	18,073	379	-	100,727
-	-	-	-	-	-	-	-	-	-	-	-	-
4,049	1,596	-	-	-	-19,946	-699	-	-2	-6,256	11,932	-	-32,641
-1,903	-	-	-	-	-17,784	-699	-	-2	-	10,751	-	-14,488
-8	-	-	-	-	-2,162	-	-	-0	-1,207	1,181	-	-2,195
-	-	-	-	-	-	-	-	-	-	-	-	-
5,959	1,849	-	-	-	-	-	-	-	-	-	-	-10,655
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-254	-	-	-	-	-	-	-	-5,049	-	-	-5,303
-	-	-	-	-	-	-	-	-	-	-1,360	-	-1,360
-1	-100	-	-	-	-0	-	-	-	7	-0	-	220
3,621	3,141	-	-	-	2,151	-	-	-	11,823	10,951	-	66,946
1,374	597	-	-	-	2,071	-	-	-	6,352	5,061	-	24,729
1,579	535	-	-	-	80	-	-	-	-	5	-	22,980
7	2,009	-	-	-	-	-	-	-	5,471	5,886	-	16,663
2	2,006	-	-	-	-	-	-	-	5,471	5,808	-	13,296
5	3	-	-	-	-	-	-	-	-	21	-	3,310
-	-	-	-	-	-	-	-	-	-	57	-	57
-	608	-	-	-	-	-	-	-	-	-	-	3,409

Energy Balance Table of Thailand in 2005 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	20,726	499	-	2	17,042	-	-	53,381
1,358	-	-	-	-	8,179	-	-	-	23	380	-	57,715
-851	-1,106	-	-	-	-	-	-	-	-1	-55	-	-9,025
-	-	-	-	-	-	-	-	-	-	-	-	-
-454	-16	-	-	-	-	-	-	-	-	-	-	-952
54	-1,122	-	-	-	28,905	499	-	2	17,064	325	-	101,120
-	-	-	-	-	-	-	-	-	-	-	-	-
3,912	1,613	-	-	-	-21,204	-499	-	-2	-5,968	11,369	-	-33,357
-1,879	-	-	-	-	-18,863	-499	-	-2	-	10,191	-	-15,848
-16	-	-	-	-	-2,341	-	-	-	-1,186	1,178	-	-2,365
-	-	-	-	-	-	-	-	-	-	-	-	-
5,807	1,845	-	-	-	-	-	-	-	-	-	-	-10,130
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-232	-	-	-	-	-	-	-	-4,782	-	-	-5,014
-	-	-	-	-	-	-	-	-	-	-1,307	-	-1,307
0	2,258	-	-	-	-5,632	-	-	0	-20	0	-	-517
3,966	2,750	-	-	-	2,069	-	-	-	11,075	10,387	-	65,938
1,921	525	-	-	-	2,019	-	-	-	5,585	4,853	-	23,798
1,543	353	-	-	-	50	-	-	-	-	5	-	23,491
7	1,872	-	-	-	-	-	-	-	5,491	5,529	-	16,086
3	1,870	-	-	-	-	-	-	-	5,491	5,459	-	12,829
4	3	-	-	-	-	-	-	-	-	21	-	3,208
-	-	-	-	-	-	-	-	-	-	49	-	49
-	661	-	-	-	-	-	-	-	-	-	-	3,707

Major Energy Indicators of Thailand

	1980	1985	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	12,104	15,673	29,940	51,659	63,255	97,843	101,120	100,727
Indigenous Production	531	6,701	11,854	18,485	28,559	47,706	53,381	50,383
Import	12,012	9,393	18,968	33,750	40,086	57,712	57,715	58,672
Export	-16	-442	-791	-1,174	-5,450	-8,400	-9,025	-10,253
Final Energy Consumption	9,272	11,955	22,218	37,561	41,557	64,260	65,938	66,946
Industry	2,759	3,043	5,917	11,944	12,833	25,214	26,362	27,303
Transport	4,278	6,360	11,474	18,761	18,828	22,811	23,491	22,980
Residential & Commercial	991	1,566	2,675	4,735	5,731	12,673	12,829	13,296
Agriculture	1,130	841	1,820	1,574	2,180	3,519	3,208	3,310
Coal, Coal Products								
Primary Energy Supply	445	1,589	3,828	7,064	7,838	10,495	10,680	11,847
Indigenous Production	408	1,401	3,603	5,524	5,196	5,610	5,220	4,750
Import	60	213	220	1,515	2,655	4,748	5,461	7,097
Export	-1	-	-	-	-	-	-	-
Transformation Sector	-331	-1,143	-2,472	-3,406	-4,204	-4,656	-4,725	-4,816
Power Generation	-331	-1,143	-2,472	-3,406	-4,204	-4,656	-4,725	-4,816
Final Energy Consumption	114	446	1,356	3,658	3,660	5,935	6,827	7,569
Industry	114	446	1,356	3,658	3,660	5,935	6,827	7,569
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Crude Oil								
Primary Energy Supply	7,745	8,134	12,220	24,901	39,400	52,250	49,550	51,122
Indigenous Production	14	1,732	2,112	2,550	5,159	10,316	9,893	10,283
Import	7,866	6,751	10,961	22,840	34,062	43,531	41,693	41,773
Export	-	-403	-767	-715	-514	-2,892	-3,453	-3,349
Transformation Sector	-7,736	-8,050	-11,687	-24,668	-37,774	-46,816	-46,494	-48,094
Petroleum Refineries	-7,736	-8,141	-11,806	-24,871	-38,169	-46,816	-46,494	-48,094
Petroleum Products								
Primary Energy Supply	3,739	2,322	7,700	9,230	-4,361	-4,567	-5,905	-3,491
Import	4,020	2,367	7,731	9,335	1,179	1,511	1,980	1,382
Export	-14	-37	-21	-452	-4,919	-5,473	-5,516	-6,836
Transformation Sector	4,288	6,221	9,566	18,104	31,530	35,287	34,166	35,239
Power Generation	-2,982	-856	-2,548	-5,611	-2,344	-1,715	-1,967	-1,946
Petroleum Refineries	7,270	6,645	11,490	22,211	32,193	37,244	36,365	37,439
Final Energy Consumption	8,027	9,587	17,267	26,859	27,303	32,683	32,534	31,650
Industry	2,090	1,619	2,753	4,676	4,335	4,627	4,032	3,449
Transport	4,278	6,360	11,474	18,758	18,822	22,780	23,436	22,895
Residential & Commercial	417	648	927	1,444	1,637	1,777	1,880	2,016
Agriculture	1,128	836	1,811	1,565	2,167	3,500	3,187	3,290
Natural Gas								
Primary Energy Supply	-	3,250	5,710	9,833	19,620	22,484	28,905	22,097
Indigenous Production	-	3,250	5,710	9,833	17,685	14,877	20,726	14,144
Import	-	-	-	-	1,935	7,607	8,179	7,952
Export	-	-	-	-	-	-	-	-
Transformation Sector	-	-2,984	-5,183	-7,567	-14,273	-19,786	-21,204	-19,946
Power Generation	-	-2,388	-4,216	-7,476	-14,106	-19,786	-21,204	-19,946
Final Energy Consumption	-	178	267	787	1,389	2,341	2,069	2,151
Industry	-	178	266	784	1,386	2,314	2,019	2,071
Transport	-	-	-	3	2	27	50	80
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	1,241	1,984	3,799	6,885	8,254	10,812	11,369	11,932
Thermal	1,131	1,667	3,371	6,308	7,736	10,293	10,870	11,233
Hydro	109	318	428	577	518	519	499	699
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	1,131	1,723	3,297	6,125	7,562	9,854	10,387	10,951
Industry	555	800	1,542	2,826	3,452	4,538	4,853	5,061
Transport	-	-	-	-	3	4	5	5
Residential & Commercial	574	918	1,747	3,291	4,094	5,249	5,459	5,808
Agriculture	2	5	8	9	13	19	21	21

Major Economic Indicators of Thailand

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	46.81	50.82	54.29	57.52	60.67	62.57	63.00	63.44
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	37.27	48.60	79.36	120.01	122.73	150.37	157.11	165.00
Real Term (Billions of 2000 Price and 2000 PPP)	93.61	122.04	199.30	301.37	308.20	377.62	394.56	414.36
Nominal (Billions of Current USD)	32.35	38.90	85.34	168.02	122.73	161.35	176.22	206.34
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	796	956	1,462	2,086	2,023	2,403	2,494	2,601
Real Term (2000 Price and 2000 PPP)	2,000	2,401	3,671	5,239	5,080	6,036	6,263	6,531
Nominal (Current USD)	691	765	1,572	2,921	2,023	2,579	2,797	3,252
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	662.48	1,056.50	2,183.54	4,186.21	4,922.73	6,489.85	7,087.66	7,816.47
Household Final Consumption Expenditure, etc.	433.58	657.37	1,234.98	2,225.74	2,762.92	3,709.06	4,048.65	4,381.19
General Government Final Consumption Expenditure	81.43	142.92	205.35	414.40	557.81	720.51	842.27	906.61
Gross Fixed Capital Formation	183.99	287.00	881.76	1,719.12	1,081.42	1,681.80	2,053.16	2,232.05
Stock Change	9.07	11.40	21.21	43.04	42.74	57.96	178.59	-53.69
Exports of Goods and Services	159.73	245.25	745.29	1,751.67	3,287.28	4,587.87	5,230.41	5,763.53
Imports of Goods and Services	201.18	274.07	909.46	2,033.89	2,862.30	4,272.71	5,324.09	5,455.51
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	913.73	1,191.25	1,945.37	2,941.74	3,008.40	3,685.94	3,851.30	4,044.62
Household Final Consumption Expenditure, etc.	607.23	723.20	1,110.93	1,601.69	1,623.72	2,016.79	2,103.27	2,169.16
General Government Final Consumption Expenditure	106.94	151.25	171.94	232.46	277.13	309.49	351.82	363.77
Gross Fixed Capital Formation	269.63	333.64	759.87	1,236.09	597.44	816.34	906.55	942.92
Stock Change	6.45	12.23	20.65	42.89	25.64	52.78	68.28	-38.24
Exports of Goods and Services	195.23	288.02	709.65	1,386.11	1,947.08	2,451.21	2,557.50	2,776.96
Imports of Goods and Services	271.20	290.57	806.98	1,543.60	1,497.67	1,977.90	2,162.30	2,196.25
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	19.9	19.1	13.6	9.4	10.3	9.6	8.9	8.9
Industry	30.1	31.6	37.8	43.0	44.4	46.6	47.0	47.4
Services, etc.	50.0	49.4	48.6	47.6	45.3	43.8	44.1	43.7
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	7.121	23.068	56.439	69.057	96.248	110.178	130.790
Imports, c.i.f.	9.214	9.242	33.045	70.786	61.924	94.410	118.158	128.636
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.902	-1.332	-6.751	-7.968	11.701	10.785	3.388	13.844
Current Account	-2.076	-1.537	-7.281	-13.582	9.313	2.759	-7.647	2.175
Overall Balance	-0.206	0.105	3.235	7.159	-1.806	5.713	5.417	12.669
Foreign Exchange Rate (THB/USD) *1	20.4764	27.1589	25.5855	24.9152	40.1118	40.2224	40.2201	37.8820
Purchasing Power Parity (THB/International Dollar) *1	13.1067	12.4267	13.4259	15.0832	15.9723	15.7038	15.9321	16.2140
Price Indices								
GDP Deflator (1988=100) *3	72.5	88.7	112.2	142.3	163.6	176.1	184.0	193.3
Wholesale Price Index (2000=100) *2	52.0	56.8	70.2	84.1	100.0	115.7	126.2	135.2
Consumer Price Index (2000=100) *2	41.8	53.1	64.3	81.3	100.0	107.0	111.9	117.0
Growth Rate (%) *3								
Real GDP	5.17	4.65	11.17	9.24	4.75	6.28	4.49	5.02
Population	1.92	1.50	1.24	1.13	0.96	0.71	0.70	0.70
Price								
Wholesale Price Index	20.1	0.0	3.5	8.2	3.9	6.7	9.1	7.1
Consumer Price Index	19.7	2.4	5.9	5.8	1.6	2.8	4.5	4.6

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

Note : N.A. shows "not available"
 : THB shows Baht, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

Energy Price of Thailand in 2006

Currency Exchange Rate

	Local currency /	
Currency Exchange Rate	US Dollar	40.37?
Local Currency Unit		

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	?/ton	500.00	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		
Oil and Oil Products			Gas Works Gas			Gas Works Gas		
Crude Oil			Oil and Oil Products			Oil and Oil Products		
Natural Gas Liquids			Crude Oil			Crude Oil		
Ethane			Natural Gas Liquids			Natural Gas Liquids		
LPG	? / kg	11.96	Ethane			Ethane		
Naphtha			LPG	? / kg	12.46	LPG	? / kg	16.81
Motor Gasoline	? / litre	17.89	Naphtha			Naphtha		
Aviation Gasoline			Motor Gasoline	? / litre	24.42	Motor Gasoline (ULG 95)	? / litre	27.58
Gasoline Type Jet Fuel			Aviation Gasoline			Aviation Gasoline		
Kerosene Type Jet Fuel	? / litre		Gasoline Type Jet Fuel			Gasoline Type Jet Fuel		
Other Kerosene		18.99	Kerosene Type Jet Fuel			Kerosene Type Jet Fuel		
Gas/Diesel Oil	? / litre	18.88	Other Kerosene	? / litre	24.40	Other Kerosene	? / litre	28.42
Fuel Oil	? / litre	12.43	Gas/Diesel Oil	? / litre	24.49	Gas/Diesel Oil (HSD)	? / litre	25.59
White Spirit SBP			Fuel Oil	? / litre	13.91	Fuel Oil (1500)	? / litre	17.29
Lubricants			White Spirit SBP			White Spirit SBP		
Bitumen			Lubricants			Lubricants		
Paraffin Waxes			Bitumen			Bitumen		
Petroleum Coke			Paraffin Waxes			Paraffin Waxes		
Natural Gas			Petroleum Coke			Petroleum Coke		
Natural Gas			Natural Gas			Natural Gas		
Liquefied Natural Gas			Natural Gas			Natural Gas	?/kg	8.50
Compressed Natural Gas			Liquefied Natural Gas			Liquefied Natural Gas		
Electricity			Compressed Natural Gas			Compressed Natural Gas		
Electricity			Electricity			Electricity*		
Other Energy Products			Electricity			Industrial		
			Other Energy Products			Commercial		
						Residential		
						Others		
						Other Energy Products		

3.20 United States of America

Energy Balance Table of United States of America in 2006

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	576,759	-	317,991	-	-	-	-	-	-
2 Import	21,433	2,421	604,626	112,803	48,191	6,016	7,413	230	13,805
3 Export	-27,937	-962	-5,613	-59,058	-6,883	-	-2,016	-153	-11,508
4 International Marine Bunkers	-	-	-	-27,915	-	-	-	-	-7,280
5 Stock Changes	-20,710	-42	1,014	-6,083	-465	-9	-17	200	-1,681
6 Total Primary Energy Supply	549,545	1,417	918,018	19,746	40,842	6,007	5,380	277	-6,664
7 Transfers	-	-	-47,828	41,447	3,345	-	-	-	-
8 Total Transformation Sector	-514,262	5,716	-848,214	867,545	390,982	9,207	75,403	2,379	209,871
8.1 Main Activity Producer	-431,431	-60,205	-	-15,063	-	-	-76	-55	-1,769
8.2 Autoproducers	-4,712	-1,394	-	-1,107	-	-	-1	-	-87
8.3 Gas Processing	-2,001	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-858,256	883,715	390,982	9,207	75,480	2,435	211,727
8.5 Coal Transformation	-76,118	67,315	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	10,042	-	-	-	-	-	-
9. Loss & Own Use	-181	-1,967	-	-53,027	-4	-	-	-	-89
10. Discrepancy	-12,395	-1,662	-21,976	6,997	-7,518	1	-0	-1	-63
11 Total Final Energy Consumption	22,707	3,504	-	882,709	427,647	15,216	80,783	2,655	203,055
12 Industry Sector	21,377	3,504	-	181,834	5,355	15,216	-	617	20,356
13 Transport Sector	-	-	-	643,517	417,351	-	80,783	-	144,728
14 Other Sector	1,330	-	-	57,358	4,940	-	-	2,039	37,970
14.1 Residential & Commercial	1,308	-	-	39,724	1,179	-	-	1,990	25,238
14.2 Agriculture	22	-	-	17,634	3,761	-	-	49	12,732
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	146,161	-	15,216	-	-	-

Energy Balance Table of United States of America in 2005

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil & NGL	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	564,171	-	322,552	1,691	1,691	-	-	-	-
2 Import	18,069	2,101	599,509	118,067	47,234	6,870	8,092	343	12,129
3 Export	-27,912	-1,040	-4,911	-52,505	-7,174	-	-2,746	-106	-7,058
4 International Marine Bunkers	-	-	-	-25,902	-	-	-	-	-6,971
5 Stock Changes	3,229	-156	-5,516	1,542	1,138	-32	-21	-17	-948
6 Total Primary Energy Supply	557,558	905	911,635	42,892	42,889	6,838	5,325	220	-2,847
7 Transfers	-	-	-45,174	50,844	7,019	-	-	-	-
8 Total Transformation Sector	-520,519	7,808	-843,909	846,663	388,879	10,100	78,330	3,153	204,587
8.1 Main Activity Producer	-421,928	-76,622	-	-28,663	-	-	-91	-139	-2,739
8.2 Autoproducers	-4,441	-1,210	-	-1,240	-	-	-	-	-198
8.3 Gas Processing	-1,888	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-851,394	876,565	388,879	10,100	78,420	3,292	207,524
8.5 Coal Transformation	-92,263	85,639	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	7,484	-	-	-	-	-	-
9. Loss & Own Use	-165	-1,888	-	-51,232	-16	-	-	-	-128
10. Discrepancy	-12,297	-3,031	-22,552	-8,121	-14,866	-1	-1	-	-515
11 Total Final Energy Consumption	24,576	3,794	-	881,045	423,905	16,937	83,654	3,373	201,096
12 Industry Sector	22,055	3,794	-	179,710	5,369	16,937	-	746	20,176
13 Transport Sector	-	-	-	638,998	414,163	-	83,654	-	140,397
14 Other Sector	2,521	-	-	62,337	4,373	-	-	2,627	40,523
14.1 Residential & Commercial	2,094	-	-	45,965	1,110	-	-	2,562	28,714
14.2 Agriculture	427	-	-	16,372	3,264	-	-	65	11,809
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	144,405	-	16,937	-	-	-

Energy Balance Table of United States of America in 2006 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	431,050	27,321	212,700	18,929	88,356	-	-	1,673,107
21,709	1,259	-	9	14,171	97,606	-	-	-	1,400	3,671	-	843,960
-15,548	-	-	-	-22,950	-16,880	-	-	-	-332	-2,087	-	-112,870
-20,635	-	-	-	-	-	-	-	-	-	-	-	-27,915
-2,084	-770	-	363	-1,620	-10,133	-	-	-	-9,615	-	-	-45,568
-16,558	489	-	372	-10,399	501,643	27,321	212,700	18,929	79,809	1,584	-	2,330,714
-	28,099	-	16,519	-6,516	-	-	-	-	-	-	-	-6,380
27,364	20,904	40,987	454	89,993	-161,774	-27,321	-212,700	-16,725	-35,454	369,809	5,106	-568,275
-8,276	-	-	-	-4,887	-145,009	-27,060	-212,700	-16,725	-12,867	355,839	5,106	-560,116
-519	-	-	-	-499	-18,031	-261	-	-	-11,899	13,970	-	-23,434
-	-	-	-	-	1,267	-	-	-	-	-	-	-734
36,159	20,904	40,987	454	95,380	-	-	-	-	-	-	-	25,459
-	-	-	-	-	-	-	-	-	-	-	-	-8,803
-	-	-	-	-	-	-	-	-	-10,689	-	-	-647
-392	-541	-39,515	-10	-12,476	-42,469	-	-	-	-	-54,410	-2,316	-154,369
1,479	-0	0	-	13,099	1,900	-0	-	-	9,358	3,131	0	-14,647
11,893	48,950	1,472	17,335	73,702	299,302	-	-	2,203	53,713	320,114	2,790	1,587,042
-30,861	37,220	-14,671	-52,223	72,143	103,890	-	-	111	40,243	78,837	2,205	432,000
71	420	-	-183	162	14,209	-	-	-	-	633	-	658,358
2,829	9,580	-	-	-	166,818	-	-	2,092	13,470	240,645	586	482,300
2,829	8,487	-	-	-	166,818	-	-	2,092	13,224	228,009	586	451,761
-	1,093	-	-	-	-	-	-	-	247	-	-	17,904
-	-	-	-	-	-	-	-	-	-	12,636	-	12,636
-	38,436	1,472	17,335	73,702	14,016	-	-	-	-	-	-	160,177

Energy Balance Table of United States of America in 2005 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	421,558	25,622	211,275	18,240	88,590	-	-	1,653,699
29,986	868	-	12	12,532	101,313	-	-	-	260	3,829	-	843,148
-13,703	-	-	-	-21,719	-17,004	-	-	-	-	-1,703	-	-105,075
-18,931	-	-	-	-	-	-	-	-	-	-	-	-25,902
1,543	-189	-	-226	294	1,417	-	-	-	1,320	-	-	1,836
-1,106	679	-	-214	-8,893	507,284	25,622	211,275	18,240	90,170	2,126	-	2,367,706
-	32,213	-	15,880	-4,268	-	-	-	-	-	-	-	5,670
14,902	19,877	39,480	487	86,869	-153,459	-25,622	-211,275	-16,155	-32,511	369,272	5,966	-573,743
-20,144	-	-	-	-5,551	-136,890	-25,335	-211,275	-16,155	-12,658	355,626	5,966	-567,933
-647	-	-	-	-395	-17,766	-286	-	-	-11,888	13,646	-	-23,186
-	-	-	-	-	1,198	-	-	-	-	-	-	-690
35,693	19,877	39,480	487	92,815	-	-	-	-	-	-	-	25,171
-	-	-	-	-	-	-	-	-	-	-	-	-6,623
-	-	-	-	-	-	-	-	-	-7,966	-	-	-482
-355	-681	-37,750	-10	-12,291	-41,879	-	-	-	-	-54,948	-2,706	-152,818
-1,062	-1	-0	-	8,325	5,126	-	-	-0	-1,285	3,097	-0	-39,064
12,379	52,086	1,730	16,143	69,741	317,072	-	-	2,085	56,374	319,547	3,260	1,607,752
-32,805	38,795	-15,515	-53,962	68,417	105,371	-	-	108	42,402	79,449	2,576	435,466
147	454	-	-193	183	14,164	-	-	-	-	646	-	653,808
3,567	11,246	-	-	-	181,522	-	-	1,977	13,972	239,452	684	502,464
3,567	10,012	-	-	-	181,522	-	-	1,977	13,783	226,550	684	472,575
-	1,234	-	-	-	-	-	-	-	189	-	-	16,988
-	-	-	-	-	-	-	-	-	-	12,901	-	12,901
-	39,854	1,730	16,143	69,741	14,384	-	-	-	-	-	-	158,788

Major Energy Indicators of United States of America

ktoe

	1980	1985	1990	1995	2000	2004	2005	2006
Total								
Primary Energy Supply	1,748,648	1,695,539	1,928,500	2,093,603	2,310,809	2,352,032	2,367,706	2,330,714
Indigenous Production	1,481,448	1,488,872	1,650,699	1,666,387	1,680,924	1,665,756	1,653,699	1,673,107
Import	376,915	281,249	453,288	536,494	702,031	815,807	843,148	843,960
Export	-88,326	-100,219	-109,215	-100,157	-93,619	-101,607	-105,075	-112,870
Final Energy Consumption	1,434,285	1,344,865	1,305,573	1,393,196	1,566,046	1,609,707	1,607,752	1,587,042
Industry	594,201	510,870	395,011	404,897	476,268	466,609	451,480	446,384
Transport	470,315	479,219	506,729	550,924	616,272	643,823	653,808	658,358
Residential & Commercial	356,887	352,692	369,680	421,582	457,728	467,751	472,575	451,761
Agriculture	-	-	14,587	15,387	14,281	17,036	16,988	17,904
Coal, Coal Products								
Primary Energy Supply	371,742	420,402	458,370	478,067	543,593	551,448	558,462	550,962
Indigenous Production	445,217	462,644	539,215	531,553	544,849	553,158	564,171	576,759
Import	1,105	1,512	2,075	5,222	9,647	20,254	20,170	23,854
Export	-59,177	-59,036	-66,909	-54,748	-36,634	-27,632	-28,952	-28,899
Transformation Sector	-305,433	-357,410	-406,675	-455,267	-517,575	-507,463	-512,712	-508,546
Power Generation	-290,071	-348,402	-391,382	-437,944	-501,855	-495,371	-504,200	-497,742
Final Energy Consumption	113,084	87,668	53,147	26,984	29,186	29,428	28,370	26,211
Industry	100,038	83,451	43,600	24,184	26,918	26,395	25,849	24,881
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	3,482	4,217	3,855	2,800	2,267	2,459	2,094	1,308
Agriculture	-	-	-	-	-	574	427	22
Crude Oil								
Primary Energy Supply	741,462	660,377	783,558	819,685	887,075	921,899	911,635	918,018
Indigenous Production	490,831	508,322	432,557	397,864	365,614	339,092	322,552	317,991
Import	268,423	165,089	351,041	419,079	524,271	593,892	599,509	604,626
Export	-14,570	-10,415	-2,100	-2,274	-6,151	-3,823	-4,911	-5,613
Transformation Sector	-701,883	-654,690	-756,185	-781,911	-836,336	-848,035	-843,909	-848,214
Petroleum Refineries	-701,883	-654,690	-756,185	-784,399	-839,323	-854,492	-851,394	-858,256
Petroleum Products								
Primary Energy Supply	66,318	66,982	-13,308	-14,932	7,171	26,983	42,892	19,746
Import	82,411	89,121	62,420	41,955	76,012	99,292	118,067	112,803
Export	-13,107	-29,075	-36,440	-38,758	-43,905	-48,287	-52,505	-59,058
Transformation Sector	652,021	639,590	727,898	769,552	821,209	848,967	846,663	867,545
Power Generation	-62,925	-25,939	-27,257	-15,150	-29,530	-29,673	-29,903	-16,170
Petroleum Refineries	714,946	665,529	755,156	784,702	850,739	878,640	876,565	883,715
Final Energy Consumption	759,089	715,868	697,782	743,477	819,729	877,790	881,045	882,709
Industry	228,529	186,609	144,026	148,054	155,643	183,221	179,710	181,834
Transport	455,308	467,112	490,960	534,201	600,710	629,536	638,998	643,517
Residential & Commercial	72,669	60,386	48,209	45,835	49,095	48,604	45,965	39,724
Agriculture	-	-	14,587	15,387	14,281	16,429	16,372	17,634
Natural Gas								
Primary Energy Supply	473,432	411,471	438,796	507,743	547,832	509,537	507,284	501,643
Indigenous Production	451,504	385,115	418,014	434,601	446,888	433,345	421,558	431,050
Import	22,826	21,583	35,816	66,185	87,912	99,196	101,313	97,606
Export	-1,120	-1,267	-2,000	-3,590	-5,666	-19,895	-17,004	-16,880
Transformation Sector	-86,421	-71,663	-88,608	-127,375	-135,773	-145,019	-153,459	-161,774
Power Generation	-86,421	-71,663	-89,762	-128,613	-136,917	-146,122	-154,656	-163,041
Final Energy Consumption	376,869	333,225	303,077	326,450	359,988	334,024	317,072	299,302
Industry	190,395	160,580	123,807	126,299	155,348	135,138	121,385	118,274
Transport	14,739	11,780	15,414	16,391	15,182	13,666	14,164	14,209
Residential & Commercial	171,000	160,543	163,855	183,759	189,458	185,221	181,522	166,818
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	196,478	212,238	276,801	308,062	348,514	359,006	369,272	369,809
Thermal	107,327	88,101	92,571	92,988	116,550	121,431	132,375	129,788
Hydro	23,719	24,160	24,851	29,056	24,079	25,619	25,622	27,321
Nuclear	65,433	99,978	159,380	186,018	207,885	211,956	211,275	212,700
Final Energy Consumption	180,358	200,093	226,487	261,610	300,939	311,354	319,547	320,114
Industry	70,353	72,219	74,523	89,559	98,222	79,318	79,449	78,837
Transport	268	327	355	331	380	621	646	633
Residential & Commercial	109,736	127,546	151,610	171,720	202,337	216,927	226,550	228,009
Agriculture	-	-	-	-	-	-	-	-

Major Economic Indicators of United States of America

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	227.23	237.92	249.62	266.28	282.22	293.64	296.51	299.40
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	5,128.00	6,011.00	7,055.00	7,972.80	9,764.80	10,651.70	10,995.80	11,314.68
Real Term (Billions of 2000 Price and 2000 PPP)	5,128.00	6,011.00	7,055.00	7,972.80	9,764.80	10,651.70	10,995.80	11,314.68
Nominal (Billions of Current USD)	2,768.90	4,187.50	5,757.20	7,342.30	9,764.80	11,657.30	12,397.90	13,163.87
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	22,568	25,264	28,263	29,942	34,600	36,275	37,084	37,791
Real Term (2000 Price and 2000 PPP)	22,568	25,264	28,263	29,942	34,600	36,275	37,084	37,791
Nominal (Current USD)	12,186	17,600	23,064	27,574	34,600	39,700	41,813	43,968
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	2,768.90	4,187.50	5,757.20	7,342.30	9,764.80	11,657.30	12,397.90	13,163.87
Household Final Consumption Expenditure, etc.	1,757.10	2,720.30	3,839.90	4,975.80	6,739.40	8,211.50	8,742.40	N.A.
General Government Final Consumption Expenditure	463.80	733.10	978.80	1,125.30	1,404.10	1,855.00	1,977.90	N.A.
Gross Fixed Capital Formation	565.20	824.10	1,003.40	1,301.60	1,944.20	2,146.60	2,373.20	N.A.
Stock Change	-4.30	25.30	13.10	30.90	56.50	57.50	21.10	N.A.
Exports of Goods and Services	280.80	302.00	552.40	812.20	1,096.30	1,178.10	1,303.10	N.A.
Imports of Goods and Services	293.80	417.20	630.30	903.60	1,475.80	1,791.40	2,019.80	N.A.
Real GDP & its Components (Billions of 2000 USD) *1								
Gross Domestic Product	5,128.00	6,011.00	7,055.00	7,972.80	9,764.80	10,651.70	10,995.80	11,314.68
Household Final Consumption Expenditure, etc.	3,374.10	4,064.00	4,770.30	5,433.50	6,739.40	7,577.10	7,841.20	N.A.
General Government Final Consumption Expenditure	957.10	1,128.10	1,293.80	1,288.90	1,404.10	1,597.10	1,613.10	N.A.
Gross Fixed Capital Formation	785.60	1,007.00	1,081.40	1,341.50	2,000.70	2,058.20	2,152.20	N.A.
Stock Change	-6.50	25.80	14.40	29.80	56.50	53.60	19.40	N.A.
Exports of Goods and Services	323.50	328.30	552.50	778.20	1,096.30	1,120.40	1,196.10	N.A.
Imports of Goods and Services	310.90	469.80	607.10	849.10	1,475.80	1,711.30	1,815.30	N.A.
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	1.0	1.2	1.0	0.9	1.1	1.1	1.1	N.A.
Industry	25.4	23.9	22.9	22.7	22.5	21.3	21.2	N.A.
Services, etc.	71.7	70.5	70.2	68.6	69.5	70.6	70.6	N.A.
Industrial Production Index (2000=100) *2	54.3	59.1	67.0	77.6	100.0	100.1	103.4	105.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	225.566	218.815	393.592	584.743	781.918	818.520	905.978	1,038.278
Imports, c.i.f.	256.984	352.463	516.987	770.852	1,259.300	1,525.680	1,735.061	1,919.427
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-25.510	-122.180	-110.270	-172.330	-452.061	-666.117	-783.350	-834.553
Current Account	2.150	-124.470	-78.960	-113.561	-417.425	-624.995	-728.994	-788.115
Overall Balance	6.990	3.835	2.233	9.747	0.295	-2.804	-14.100	-2.392
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	54.0	69.7	81.6	92.1	100.0	109.4	112.8	116.3
Wholesale Price Index (2000=100) *2	67.7	77.7	87.6	94.0	100.0	110.5	118.6	124.1
Consumer Price Index (2000=100) *2	47.9	62.5	75.9	88.5	100.0	109.7	113.4	117.1
Growth Rate (%) *3								
Real GDP	-0.24	4.10	1.86	2.54	3.69	3.92	3.23	2.90
Population	0.96	0.89	1.14	1.20	1.14	0.98	0.98	0.98
Price								
Wholesale Price Index	14.1	-0.5	3.6	3.6	5.8	6.2	7.3	4.7
Consumer Price Index	13.5	3.6	5.4	2.8	3.4	2.7	3.4	3.2

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

Note : N.A. shows "not available"
 : USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.21 Viet Nam

Energy Balance Table of Vietnam in 2006

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	21,790	-	17,510	607	-	-	-	-	-
2 Import	64	-	-	12,170	2,992	-	473	236	5,748
3 Export	-11,936	-	-17,510	-	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-872	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	9,045	-	-	12,777	2,992	-	473	236	5,748
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-3,517	-	-	-483	-	-	-	-	-85
8.1 Main Activity Producer	-3,517	-	-	-483	-	-	-	-	-85
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-	-	-	-	-	-	-
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	0	-	-	0	-	-	-	-0	-0
11 Total Final Energy Consumption	5,528	-	-	12,294	2,992	-	473	236	5,663
12 Industry Sector	4,176	-	-	2,628	-	-	-	10	1,066
13 Transport Sector	-	-	-	7,560	2,864	-	473	-	3,831
14 Other Sector	1,352	-	-	2,106	128	-	-	227	766
14.1 Residential & Commercial	1,331	-	-	1,596	-	-	-	227	401
14.2 Agriculture	22	-	-	511	128	-	-	-	365
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	393	-	-	-	-	-

Note: Above Energy Balance Table were estimated by CA.

Energy Balance Table of Viet Nam in 2005

	1 Coal	2 Coal Products	3 Crude Oil & NGL	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	18,142	-	18,935	674	-	-	-	-	-
2 Import	57	-	-	12,274	2,762	-	438	344	5,979
3 Export	-10,072	-	-18,290	-415	-	-	-131	-	-284
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-1,044	-	-645	-	-	-	-	-	-
6 Total Primary Energy Supply	7,082	-	0	12,533	2,762	-	307	344	5,695
7 Transfers	-	-	-	-	-	-	-	-	-
8 Total Transformation Sector	-2,132	-	-	-678	-	-	-	-	-123
8.1 Main Activity Producer	-2,132	-	-	-678	-	-	-	-	-123
8.2 Autoproducers	-	-	-	-	-	-	-	-	-
8.3 Gas Processing	-	-	-	-	-	-	-	-	-
8.4 Petroleum Refineries	-	-	-	-	-	-	-	-	-
8.5 Coal Transformation	-	-	-	-	-	-	-	-	-
8.6 Other Transformation	-	-	-	-	-	-	-	-	-
9. Loss & Own Use	-	-	-	-	-	-	-	-	-
10. Discrepancy	0	-	-0	-0	-	-	-0	0	-0
11 Total Final Energy Consumption	4,950	-	-	11,855	2,762	-	306	344	5,572
12 Industry Sector	3,734	-	-	2,800	-	-	-	12	1,218
13 Transport Sector	-	-	-	6,898	2,673	-	306	-	3,611
14 Other Sector	1,216	-	-	2,158	89	-	-	332	743
14.1 Residential & Commercial	1,194	-	-	1,685	-	-	-	332	378
14.2 Agriculture	22	-	-	473	89	-	-	-	365
14.3 Other	-	-	-	-	-	-	-	-	-
15 Non-energy	-	-	-	301	-	-	-	-	-

Energy Balance Table of Vietnam in 2006 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	329	-	-	278	6,638	1,755	-	-	14,860	-	-	63,159
1,995	612	-	-	114	-	-	-	-	-	83	-	12,317
-	-	-	-	-	-1,530	-	-	-	-	-	-	-30,976
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-872
1,995	941	-	-	393	5,108	1,755	-	-	14,860	83	-	43,628
-	-	-	-	-	-	-	-	-	-	-	-	-
-398	-	-	-	-	-4,872	-1,755	-	-	-18	5,285	-	-5,360
-398	-	-	-	-	-4,872	-1,755	-	-	-18	5,285	-	-5,360
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-655	-	-655
0	0	-	-	0	90	-	-	-	-	-83	-	7
1,597	941	-	-	393	326	-	-	-	14,841	4,630	-	37,620
1,038	122	-	-301	393	326	-	-	-	2,844	2,312	-	12,286
392	-	-	-	-	-	-	-	-	-	-	-	7,560
167	818	-	-	-	-	-	-	-	11,998	2,318	-	17,774
150	818	-	-	-	-	-	-	-	11,998	2,270	-	17,193
17	-	-	-	-	-	-	-	-	-	49	-	581
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	393	-	-	-	-	-	-	-	393

Energy Balance Table of Viet Nam in 2005 (Continued)

												unit: ktoe
4.6	4.7	4.8	4.9	4.10	5	6	7	8	9	10	11	12
Fuel Oil	LPG	Refinery Gas	Ethane	Other Petroleum Products	Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	373	-	-	301	5,935	1,505	-	-	14,807	-	-	59,997
2,180	572	-	-	-	-	-	-	-	-	-	-	12,331
-	-	-	-	-	-1,286	-	-	-	-	-	-	-30,064
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-1,688
2,180	945	-	-	301	4,649	1,505	-	-	14,807	-	-	40,575
-	-	-	-	-	-	-	-	-	-	-	-	-
-555	-	-	-	-	-4,549	-1,505	-	-	-29	4,598	33	-4,262
-555	-	-	-	-	-4,549	-1,505	-	-	-	4,598	33	-4,233
-	-	-	-	-	-	-	-	-	-29	-	-	-29
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-631	-	-631
-0	-	-	-	-	0	-	-	-	-	0	0	-0
1,625	945	-	-	301	100	-	-	-	14,778	3,967	33	35,683
1,160	109	-	-	301	100	-	-	-	2,972	1,870	33	11,508
307	-	-	-	-	-	-	-	-	-	-	-	6,898
158	837	-	-215	-	-	-	-	-	11,806	2,097	-	17,277
139	837	-	-	-	-	-	-	-	11,806	2,048	-	16,733
19	-	-	-	-	-	-	-	-	-	49	-	545
-	-	-	-215	-	-	-	-	-	-	-	-	-
-	-	-	-	301	-	-	-	-	-	-	-	301

Major Energy Indicators of Viet Nam

	1990	1995	1990	1995	2000	2004	2005	2006
ktoe								
Total								
Primary Energy Supply	-	-	5,414	9,123	14,841	37,755	40,575	43,628
Indigenous Production	-	-	5,811	13,562	25,777	55,158	59,997	63,159
Import	-	-	2,947	5,101	8,885	11,103	12,331	12,317
Export	-	-	-3,125	-9,816	-18,650	-27,515	-30,064	-30,976
Final Energy Consumption	-	-	4,212	7,932	11,927	33,471	35,683	37,620
Industry	-	-	1,713	3,099	4,653	11,126	11,508	12,286
Transport	-	-	1,412	2,525	3,763	5,540	6,898	7,560
Residential & Commercial	-	-	815	1,688	2,973	16,121	16,733	17,193
Agriculture	-	-	244	366	400	470	545	581
Coal, Coal Products								
Primary Energy Supply	-	-	2,212	3,314	4,372	7,928	7,082	9,045
Indigenous Production	-	-	2,597	4,676	6,501	14,550	18,142	21,790
Import	-	-	-	-	-	-	57	64
Export	-	-	-442	-1,580	-1,821	-6,190	-10,072	-11,936
Transformation Sector	-	-	-888	-710	-1,150	-1,594	-2,132	-3,517
Power Generation	-	-	-888	-710	-1,150	-1,594	-2,132	-3,517
Final Energy Consumption	-	-	1,324	2,603	3,223	6,334	4,950	5,528
Industry	-	-	1,019	1,938	2,339	4,516	3,734	4,176
Transport	-	-	14	2	-	-	-	-
Residential & Commercial	-	-	226	589	860	1,796	1,194	1,331
Agriculture	-	-	64	76	24	22	22	22
Crude Oil								
Primary Energy Supply	-	-	-0	-	20	528	0	-
Indigenous Production	-	-	2,750	7,790	16,584	20,940	18,935	17,510
Import	-	-	-	-	-	-	-	-
Export	-	-	-2,664	-7,790	-15,701	-19,852	-18,290	-17,510
Transformation Sector	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-
Petroleum Products								
Primary Energy Supply	-	-	2,737	4,713	7,757	9,631	12,533	12,777
Import	-	-	2,947	5,101	8,885	11,103	12,274	12,170
Export	-	-	-19	-446	-1,128	-1,472	-415	-
Transformation Sector	-	-	-381	-369	-997	-447	-678	-483
Power Generation	-	-	-381	-369	-1,310	-447	-678	-483
Petroleum Refineries	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	2,356	4,344	6,759	9,684	11,855	12,294
Industry	-	-	449	743	1,515	2,134	2,800	2,628
Transport	-	-	1,393	2,514	3,742	5,507	6,898	7,560
Residential & Commercial	-	-	340	583	1,026	1,428	1,685	1,596
Agriculture	-	-	146	249	339	401	473	511
Natural Gas								
Primary Energy Supply	-	-	3	186	1,440	4,146	4,649	5,108
Indigenous Production	-	-	3	186	1,440	4,146	5,935	6,638
Import	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-1,286	-1,530
Transformation Sector	-	-	-3	-165	-1,422	-4,127	-4,549	-4,872
Power Generation	-	-	-3	-165	-1,102	-4,127	-4,549	-4,872
Final Energy Consumption	-	-	-	22	18	19	100	326
Industry	-	-	-	22	18	19	100	326
Transport	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-
Electricity								
Power Generation	-	-	746	1,260	2,284	3,977	4,598	5,285
Thermal	-	-	285	350	1,033	2,451	3,093	3,530
Hydro	-	-	462	910	1,251	1,526	1,505	1,755
Nuclear	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	532	963	1,927	3,437	3,967	4,630
Industry	-	-	245	397	782	1,539	1,870	2,312
Transport	-	-	5	9	21	33	-	-
Residential & Commercial	-	-	249	516	1,088	1,818	2,048	2,270
Agriculture	-	-	34	41	37	47	49	49

Major Economic Indicators of Viet Nam

	1980	1985	1990	1995	2000	2004	2005	2006
Population (Millions) *1	53.70	58.87	66.20	72.98	77.64	82.03	83.10	84.11
Gross Domestic Product *3								
Real Term (Billions of 2000 Price and 2000 USD)	N.A.	11.89	15.02	22.28	31.17	41.28	44.77	48.43
Real Term (Billions of 2000 Price and 2000 PPP)	N.A.	41.94	52.98	78.59	109.97	145.64	157.94	170.84
Nominal (Billions of Current USD)	N.A.	N.A.	6.47	20.74	31.17	N.A.	52.92	60.88
GDP per Capita *3								
Real Term (2000 Price and 2000 USD)	N.A.	202	227	305	402	503	539	576
Real Term (2000 Price and 2000 PPP)	N.A.	712	800	1,077	1,416	1,775	1,900	2,031
Nominal (Current USD)	N.A.	N.A.	98	284	402	N.A.	637	724
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	N.A.	117	41,955	228,892	441,646	715,307	839,211	973,790
Household Final Consumption Expenditure, etc.	N.A.	N.A.	35,559	168,492	293,507	465,506	533,141	612,206
General Government Final Consumption Expenditure	N.A.	N.A.	5,177	18,741	28,346	45,751	51,652	57,334
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	58,187	122,101	237,868	275,841	319,020
Stock Change	N.A.	N.A.	N.A.	3,944	8,670	15,818	22,702	28,880
Exports of Goods and Services	N.A.	N.A.	15,120	75,106	243,049	470,216	582,069	715,369
Imports of Goods and Services	N.A.	N.A.	18,996	95,925	253,927	524,216	617,157	747,840
Real GDP & its Components (Billions of 1994 VND) *1								
Gross Domestic Product	N.A.	104,378	131,844	195,567	273,666	362,435	393,031	425,135
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	142,917	182,420	237,262	254,484	273,585
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	15,976	18,245	23,678	25,620	27,797
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	49,715	78,552	121,312	133,141	144,595
Stock Change	N.A.	N.A.	N.A.	3,534	4,944	7,604	10,150	12,050
Exports of Goods and Services	N.A.	N.A.	22,632	76,177	191,220	341,745	412,352	505,839
Imports of Goods and Services	N.A.	N.A.	30,495	108,456	267,227	523,789	613,976	745,724
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	35	32	26	23	20	20	19
Industry	N.A.	25	25	30	35	39	40	41
Services, etc.	N.A.	39	43	44	41	40	40	40
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.	0.338	0.698	2.404	5.449	14.483	26.485	32.442	39.605
Imports, c.i.f.	1.314	1.857	2.752	8.155	15.638	31.969	36.978	44.410
Balance of Payments (Billions of Current USD) *1								
Trade Balance	N.A.	N.A.	N.A.	N.A.	0.375	-2.287	-2.439	-2.776
Current Account	N.A.	N.A.	N.A.	N.A.	1.106	-0.957	-0.560	-0.164
Overall Balance	N.A.	N.A.	N.A.	N.A.	0.110	0.935	2.130	4.324
Foreign Exchange Rate (VND/USD) *1	N.A.	N.A.	6,482.80	11,038.25	14,167.75	N.A.	15,858.92	15,994.25
Purchasing Power Parity (VND/International Dollar) *1	N.A.	4.00	970.41	3,162.71	4,016.05	4,487.75	4,712.69	4,899.40
Price Indices								
GDP Deflator (1994=100) *3	N.A.	0.1	31.8	117.0	161.4	197.4	213.5	229.1
Wholesale Price Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2000=100)	N.A.	N.A.	N.A.	83.5	100.0	115.0	124.5	133.7
Growth Rate (%) *3								
Real GDP	N.A.	3.81	5.10	9.54	6.79	7.79	8.44	8.17
Population	2.14	2.04	2.20	1.81	0.16	1.40	1.31	1.21
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.	N.A.	N.A.	-1.7	7.8	8.3	7.4

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

Note : N.A. shows "not available"
 : VND shows Dong, USD shows United States Dollar
 : PPP shows Purchasing Power Parity

3.22 APEC Region

3.22.1 Primary Energy Supply Table

Primary Energy Supply Table in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal & Coal Products									
Indigenous Production	201,355	-	32,536	277	1,239,304	-	105,348	685	1,210
Import	-	-	11,285	3,168	23,048	7,182	60	107,524	50,377
Export	-150,035	-	-16,509	-6	-43,008	-0	-78,093	-1,321	-
Stock Change	2,398	-	221	2	3,082	-331	-	-528	1,022
Total	53,718	-	27,533	3,441	1,222,426	6,851	27,315	106,359	52,610
Crude oil & Petroleum Products									
Indigenous Production	23,080	11,222	155,929	154	184,766	-	48,922	779	2,682
Import	31,945	13	57,131	15,775	190,160	16,436	33,230	260,360	145,649
Export	-14,299	-10,536	-116,222	-2,130	-21,598	-1,187	-23,847	-9,171	-38,980
Stock Change	-972	70	-475	-1,276	-1,121	-188	-	-2,482	-2,496
Total	38,787	770	95,827	12,522	349,864	7,731	58,305	243,180	96,941
Natural Gas									
Indigenous Production	36,933	11,816	154,909	2,054	54,513	-	67,942	3,061	393
Import	1,204	-	7,939	5,365	88	2,185	-	73,004	29,550
Export	-14,611	-8,537	-83,973	-	-2,698	-	-29,590	-	-
Stock Change	-	-10	617	-349	-	-21	-	-26	-1,249
Total	23,526	3,269	79,492	7,071	51,903	2,164	38,352	76,039	28,694
Nuclear Power									
Indigenous Production	-	-	25,529	-	14,292	-	-	79,298	38,764
Hydro Power									
Indigenous Production	1,378	-	30,574	2,475	37,478	-	821	8,230	449
Geothermal, Solar, etc									
Indigenous Production	206	-	217	1	-	-	5,726	3,659	62
Primary Energy									
Indigenous Production	267,918	23,038	412,419	9,691	1,536,025	93	273,125	103,691	45,957
Import	33,149	13	78,412	24,504	213,760	26,740	33,291	440,888	225,605
Export	-178,944	-19,073	-220,392	-2,136	-68,359	-1,577	-131,531	-10,492	-38,980
Stock Change	1,426	60	363	-1,622	1,961	-540	-	-3,036	-2,723
Total	122,582	4,039	270,266	30,436	1,681,044	17,388	174,885	524,745	219,945

Primary Energy Supply Table in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal & Coal Products									
Indigenous Production	201,995	-	33,086	354	1,143,269	-	82,754	567	1,214
Import	-	-	11,761	2,651	15,686	6,826	53	110,603	46,902
Export	-150,341	-	-16,854	-28	-18,528	-0	-57,745	-1,099	-
Stock Change	1,522	-	2,040	-30	-18,328	44	-1,320	745	1,356
Total	53,176	-	30,034	2,947	1,122,099	6,870	23,742	110,816	49,471
Crude oil & Petroleum Products									
Indigenous Production	24,130	10,487	148,009	175	181,353	-	48,137	794	2,564
Import	31,028	43	60,625	15,033	168,301	15,405	41,706	261,735	138,809
Export	-16,332	-9,806	-107,777	-1,836	-24,776	-1,377	-26,930	-8,606	-35,582
Stock Change	-123	11	-2,329	-434	-590	-91	-	3,335	2,305
Total	37,872	735	97,938	12,938	322,074	8,219	62,914	251,081	98,191
Natural Gas									
Indigenous Production	35,226	11,143	154,077	1,929	47,429	-	68,663	2,855	441
Import	-	-	7,833	5,280	-	2,033	-	68,070	26,112
Export	-12,260	-9,556	-87,402	-	-2,764	-	-30,953	-	-
Stock Change	-	-	6,116	-160	-	-	-	-12	863
Total	22,966	1,587	80,624	7,048	44,665	2,033	37,710	70,913	27,415
Nuclear Power									
Indigenous Production	-	-	23,986	-	13,835	-	-	76,366	38,251
Hydro Power									
Indigenous Production	1,366	-	31,281	2,254	34,143	-	925	7,372	446
Geothermal, Solar, etc									
Indigenous Production	139	-	128	-	-	-	5,679	3,745	50
Primary Energy									
Indigenous Production	268,024	21,630	402,707	9,310	1,426,025	81	249,683	99,662	45,079
Import	31,028	43	81,962	23,149	184,280	25,210	41,760	440,407	211,849
Export	-178,933	-19,362	-215,785	-1,864	-46,884	-1,763	-115,627	-9,705	-35,582
Stock Change	1,400	11	5,827	-624	-18,918	-48	-1,320	4,068	4,523
Total	120,687	2,322	274,121	29,971	1,542,289	17,762	174,495	528,255	215,965

Primary Energy Supply Table in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
486	5,510	3,471	-	75	1,243	143,178	-	-	4,750	576,759	21,790	2,337,978
5,829	3,900	630	-	712	4,073	14,195	5	41,097	7,097	23,854	64	304,100
-60	-2	-1,954	-	-	-	-51,280	-	-	-	-28,899	-11,936	-383,104
-234	-665	-54	-	-3	-	591	-	-28	-	-20,752	-872	-16,152
6,020	8,743	2,093	-	784	5,316	106,685	5	41,069	11,847	550,962	9,045	2,242,823
37,073	192,615	1,015	2,867	5,456	702	478,206	-	21	12,736	317,991	18,117	1,494,332
15,769	19,338	6,885	1,648	6,330	15,311	2,376	107,159	63,373	43,156	717,429	12,170	1,761,642
-26,851	-109,105	-825	-2,917	-3,562	-2,365	-337,803	-58,260	-14,937	-10,185	-64,671	-17,510	-886,960
454	-291	108	-294	-1,246	-103	-4,271	-	-1,018	1,924	-5,069	-	-18,745
26,358	101,664	6,898	1,305	6,979	13,420	138,508	17,897	45,109	47,631	937,764	12,777	2,260,238
49,449	42,211	3,279	259	1,859	2,530	525,756	-	412	14,144	431,050	6,638	1,409,206
2,895	8,291	-	-	-	-	5,815	5,649	10,673	7,952	97,606	-	258,217
-25,957	-296	-	-	-	-	-163,852	-	-	-	-16,880	-1,530	-347,925
-	37	-	-	-	-	-9,093	-	-128	-	-10,133	-	-20,353
26,386	50,242	3,279	259	1,859	2,530	358,625	5,649	10,957	22,097	501,643	5,108	1,299,145
-	2,832	-	-	-	-	40,791	-	10,390	-	212,700	-	424,597
554	2,614	2,017	74	1,685	855	15,074	-	685	699	27,321	1,755	134,738
-	5,848	3,161	-	2	9,005	399	-	108	2	18,929	-	47,325
87,561	259,793	13,989	3,201	11,096	21,378	1,210,785	295	13,389	50,383	1,673,107	63,159	6,080,094
24,493	31,574	7,515	1,648	7,042	19,385	22,826	112,813	115,142	58,672	843,960	12,317	2,333,750
-52,868	-109,515	-2,779	-2,917	-3,562	-2,365	-554,735	-58,260	-14,937	-10,253	-112,870	-30,976	-1,627,521
220	-919	54	-294	-1,249	-103	-12,670	-	-1,173	1,924	-45,568	-872	-64,763
59,318	180,041	18,493	1,638	13,327	38,171	666,206	23,845	110,091	100,727	2,330,714	43,628	6,631,528

Primary Energy Supply Table in 2005 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
408	5,159	3,057	-	30	1,520	138,974	-	-	5,220	564,171	18,142	2,199,919
6,277	3,787	557	-	807	3,710	12,405	1	39,715	5,461	20,170	57	287,429
-42	-1	-1,684	-	-	-	-45,646	-	-	-	-28,952	-10,072	-330,993
-23	-98	74	-	91	-	-2,395	-	-532	-	3,073	-1,044	-14,825
6,620	8,847	2,003	-	928	5,230	103,338	1	39,183	10,680	558,462	7,082	2,141,529
39,072	197,288	1,060	2,462	4,074	765	468,711	-	29	9,893	324,243	19,609	1,482,853
16,196	17,203	6,850	1,597	5,708	15,232	2,465	101,377	62,440	43,673	717,576	12,274	1,735,276
-27,490	-109,417	-800	-2,767	-3,677	-1,954	-338,125	-55,719	-15,590	-8,969	-57,416	-18,705	-873,649
480	-342	9	-	135	275	564	-	-98	-952	-3,974	-645	-2,463
28,198	103,843	6,867	1,293	6,240	14,203	133,616	17,562	44,343	43,645	954,527	12,533	2,258,830
51,992	36,904	3,201	241	2,221	2,701	515,726	-	487	20,726	421,558	5,935	1,383,455
1,213	7,440	-	-	-	-	6,200	5,234	9,842	8,179	101,313	-	248,747
-26,791	-211	-	-	-	-	-167,386	-	-	-	-17,004	-1,286	-355,613
-	21	1	-	-	-	-4,950	-	147	-	1,417	-	3,442
26,414	44,154	3,201	241	2,221	2,701	349,591	5,234	10,476	28,905	507,284	4,649	1,280,031
-	2,816	-	-	-	-	38,967	-	10,417	-	211,275	-	415,911
497	2,379	2,006	77	1,546	721	15,016	-	680	499	25,622	1,505	128,336
-	6,363	2,982	-	2	8,518	353	-	96	2	18,240	-	46,296
91,969	259,230	13,361	2,780	10,035	21,381	1,184,697	194	13,152	53,381	1,653,699	59,997	5,886,078
23,687	28,437	7,406	1,597	6,515	18,943	21,942	106,612	111,997	57,715	843,148	12,331	2,280,018
-54,323	-109,741	-2,484	-2,767	-3,677	-1,954	-553,094	-55,719	-15,590	-9,025	-105,075	-30,064	-1,569,018
456	-419	84	-	225	275	-6,816	-	-483	-952	1,836	-1,688	-12,562
61,730	176,618	18,115	1,611	13,098	38,530	646,730	22,991	106,638	101,120	2,367,706	40,575	6,501,328

3.22.2 Final Energy Consumption Table

Final Energy Consumption Table in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	77,885	785	201,194	22,720	976,268	10,600	119,262	360,941	145,720
Coal & Coal Products	3,494	-	2,951	865	375,586	0	11,543	36,758	8,322
Crude oil & Petroleum Products	39,240	514	93,315	11,952	308,054	6,550	43,021	203,736	82,714
Natural Gas	13,253	13	50,682	1,321	45,062	581	10,657	27,182	16,300
Electricity	18,029	258	42,912	4,355	199,419	3,469	9,684	89,583	31,936
Others	3,869	-	11,334	4,226	48,147	-	44,356	3,683	6,447
Industry	30,170	117	78,129	8,442	614,508	546	42,099	160,308	72,045
Coal & Coal Products	3,328	-	2,912	850	293,303	0	11,527	35,773	7,218
Crude oil & Petroleum Products	7,156	69	25,653	2,619	122,547	191	8,717	72,185	39,689
Nature Gas/ LNG & Town Gas	9,038	-	22,768	732	27,819	19	10,609	12,053	4,366
Electricity	8,076	48	17,550	2,936	138,215	335	3,751	37,794	16,294
Others	2,572	-	9,245	1,305	32,623	-	7,494	2,502	4,478
Transport	29,697	430	56,977	8,152	116,023	6,174	25,512	93,504	33,071
Coal & Coal Products	79	-	-	0	4,764	-	-	-	-
Crude oil & Petroleum Products	29,014	430	52,487	8,088	106,483	6,116	25,507	91,652	32,400
Nature Gas/ LNG & Town Gas	379	-	4,100	36	757	-	5	-	452
Electricity	225	-	390	28	4,019	58	-	1,852	218
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,327	0	3,667	-	43,039	-	-	5,280	1,790
Coal & Coal Products	-	-	-	-	12,258	-	-	-	-
Crude oil & Petroleum Products	2,166	0	2,393	-	22,615	-	-	4,955	1,283
Nature Gas/ LNG & Town Gas	2	-	441	-	-	-	-	-	25
Electricity	160	-	831	-	8,145	-	-	325	482
Others	-	-	1	-	21	-	-	-	-
Residential & Commercial	15,692	28	62,421	6,001	159,219	3,880	51,272	99,470	36,747
Coal & Coal Products	87	-	39	5	61,082	-	16	984	1,104
Crude oil & Petroleum Products	904	15	12,781	1,170	33,335	243	8,797	32,565	7,420
Nature Gas/ LNG & Town Gas	3,835	13	23,373	529	15,298	562	43	15,128	11,457
Electricity	9,568	-	24,141	1,376	35,250	3,076	5,554	49,612	14,797
Others	1,298	-	2,087	2,921	14,254	-	36,862	1,181	1,969

Final Energy Consumption Table in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	78,036	776	203,872	21,798	906,568	10,364	118,267	363,919	144,366
Coal & Coal Products	3,473	-	3,066	903	367,076	1	8,499	36,391	8,186
Crude oil & Petroleum Products	39,182	499	94,300	11,436	284,495	6,332	45,952	211,234	83,118
Nature Gas/ LNG & Town Gas	13,527	13	51,626	1,277	38,454	586	11,093	24,758	15,986
Electricity	17,759	264	44,038	4,154	169,807	3,444	9,205	87,874	30,756
Others	4,095	-	10,842	4,028	46,737	-	43,518	3,662	6,320
Industry	29,665	96	78,109	7,628	565,323	574	40,548	160,530	69,897
Coal & Coal Products	3,274	-	3,031	887	278,711	1	8,486	35,461	7,233
Crude oil & Petroleum Products	6,622	47	25,980	2,061	113,841	204	10,444	75,635	38,366
Nature Gas/ LNG & Town Gas	9,245	-	22,150	758	23,661	19	11,049	9,998	4,168
Electricity	7,939	49	18,197	2,800	116,274	350	3,651	36,968	15,820
Others	2,585	-	8,751	1,121	32,836	-	6,919	2,467	4,311
Transport	30,243	418	57,047	8,149	107,889	6,001	25,858	94,366	32,480
Coal & Coal Products	92	-	-	0	5,470	-	-	-	-
Crude oil & Petroleum Products	29,583	418	52,382	8,096	97,855	5,878	25,852	92,515	31,933
Nature Gas/ LNG & Town Gas	353	-	4,299	31	863	-	5	-	323
Electricity	214	-	366	22	3,701	123	-	1,851	224
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,271	0	3,637	-	40,163	-	-	5,954	1,908
Coal & Coal Products	-	-	-	-	11,788	-	-	-	-
Crude oil & Petroleum Products	2,116	0	2,329	-	21,175	-	-	5,623	1,429
Nature Gas/ LNG & Town Gas	2	-	425	-	-	-	-	-	24
Electricity	152	-	881	-	7,181	-	-	331	455
Others	-	-	1	-	18	-	-	-	-
Residential & Commercial	15,857	246	65,079	5,847	153,385	3,660	51,504	100,348	37,747
Coal & Coal Products	107	-	35	4	67,129	-	13	929	954
Crude oil & Petroleum Products	861	17	13,609	1,173	30,270	122	9,656	34,740	9,205
Nature Gas/ LNG & Town Gas	3,927	13	24,752	442	12,328	567	39	14,759	11,470
Electricity	9,453	215	24,593	1,322	30,763	2,971	5,197	48,724	14,110
Others	1,510	-	2,089	2,907	12,894	-	36,599	1,195	2,009

Note: From 2005, consumption of energy for non-energy uses is included in the appropriate sectors;
e.g. Consumption of energy as raw materials in manufacture of goods is included in the industry sector.

Final Energy Consumption Table in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
38,912	113,552	13,182	1,028	11,322	22,438	437,099	15,251	65,449	66,946	1,587,042	37,620	4,325,216
1,141	1,611	528	-	397	1,324	19,863	-	7,254	7,569	26,211	5,528	510,946
22,361	73,722	6,866	787	6,724	11,341	102,881	12,084	38,798	34,451	882,709	12,294	1,994,114
8,142	14,676	1,410	-	334	53	130,665	108	2,010	2,151	299,302	326	624,226
7,268	16,412	3,305	241	2,038	3,928	58,600	3,058	17,296	10,951	320,114	4,630	847,488
-	7,131	1,074	-	1,830	5,793	125,089	-	92	11,823	58,706	14,841	348,442
15,911	36,518	4,224	553	3,915	5,544	179,118	8,100	37,116	27,303	446,384	12,286	1,783,334
1,141	1,611	382	-	397	1,324	14,479	-	7,254	7,569	24,881	4,176	418,127
5,129	11,610	694	381	2,002	1,618	33,364	6,760	19,635	6,250	181,834	2,628	550,733
6,168	12,611	1,110	-	321	53	53,286	46	900	2,071	118,274	326	282,570
3,473	9,551	1,259	172	1,110	1,344	30,406	1,294	9,327	5,061	78,837	2,312	369,145
-	1,135	779	-	85	1,206	47,582	-	-	6,352	42,558	2,844	162,760
14,799	51,230	5,801	344	3,946	8,039	98,176	5,075	14,768	22,980	658,358	7,560	1,260,613
-	-	-	-	-	-	-	-	-	-	-	-	4,843
14,689	50,122	5,755	344	3,939	8,030	57,231	5,075	14,680	22,895	643,517	7,560	1,186,012
105	1,006	4	-	7	-	33,560	-	-	80	14,209	-	54,699
5	102	41	-	-	8	7,385	-	88	5	633	-	15,058
-	-	-	-	-	-	-	-	-	-	-	-	-
238	3,366	378	-	0	61	9,623	4	137	3,310	17,904	581	91,705
-	-	45	-	-	-	133	-	-	-	22	22	12,481
238	2,622	168	-	0	20	4,202	-	4	3,290	17,634	511	62,101
-	-	40	-	-	-	487	-	-	-	-	-	995
-	745	124	-	-	41	1,442	4	133	21	-	49	12,501
-	-	-	-	-	-	3,358	-	-	-	247	-	3,627
5,422	22,438	2,568	-	3,410	8,579	149,671	1,823	11,093	13,296	451,761	17,193	1,121,983
-	-	101	-	0	-	5,248	-	-	-	1,308	1,331	71,304
1,606	9,369	145	-	783	1,457	7,612	-	2,234	2,016	39,724	1,596	163,773
25	1,059	256	-	6	-	43,331	62	1,110	-	166,818	-	282,905
3,790	6,014	1,771	-	877	2,535	19,343	1,761	7,656	5,808	228,009	2,270	423,207
-	5,997	294	-	1,744	4,587	74,137	-	92	5,471	15,902	11,998	180,794

Final Energy Consumption Table in 2005 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
37,536	108,750	13,025	1,013	10,942	23,096	419,965	14,744	64,251	65,938	1,607,752	35,683	4,250,660
1,280	1,395	486	-	591	1,184	17,934	-	6,706	6,827	28,370	4,950	497,318
22,995	70,455	6,884	773	6,299	12,099	95,237	11,688	38,737	35,580	881,045	11,855	1,970,196
6,322	13,787	1,298	-	179	12	128,025	96	1,986	2,069	317,072	100	628,265
6,940	15,837	3,276	240	1,900	3,884	55,898	2,960	16,734	10,387	319,547	3,967	808,869
-	7,276	1,081	-	1,972	5,917	122,871	-	88	11,075	61,719	14,811	346,011
14,960	36,023	4,005	542	3,514	5,414	160,617	8,058	35,873	26,362	451,480	11,508	1,710,724
1,280	1,395	364	-	591	1,184	12,530	-	6,706	6,827	25,849	3,734	397,544
5,496	12,152	652	370	1,609	1,729	20,802	6,713	19,394	7,078	179,710	2,800	531,702
4,815	11,997	963	-	179	12	51,531	55	862	2,019	121,385	100	274,966
3,369	9,202	1,240	172	1,075	1,325	28,369	1,290	8,911	4,853	79,449	1,870	343,173
-	1,278	787	-	60	1,164	47,385	-	-	5,585	45,086	3,004	163,339
15,319	47,668	5,750	342	3,491	8,592	94,850	4,726	14,701	23,491	653,808	6,898	1,242,087
-	-	-	-	-	-	-	-	-	-	-	-	5,562
15,228	46,838	5,705	342	3,491	8,585	53,861	4,726	14,586	23,436	638,998	6,898	1,167,206
86	728	4	-	0	0	33,837	-	-	50	14,164	-	54,745
5	102	41	-	-	8	7,153	-	115	5	646	-	14,574
-	-	-	-	-	-	-	-	-	-	-	-	-
101	3,214	365	-	34	59	9,849	4	127	3,208	16,988	545	88,426
-	-	27	-	-	-	113	-	-	-	427	22	12,378
101	2,461	179	-	34	16	4,222	-	4	3,187	16,372	473	59,723
-	-	38	-	-	-	549	-	-	-	-	-	1,039
-	753	121	-	-	42	1,448	4	122	21	-	49	11,561
-	-	-	-	-	-	3,517	-	-	-	189	-	3,726
5,129	21,845	2,663	-	3,560	8,782	145,234	1,707	11,023	12,829	472,575	16,733	1,135,752
-	-	95	-	0	-	5,235	-	-	-	2,094	1,194	77,788
1,538	9,004	224	-	868	1,520	7,440	-	2,316	1,880	45,965	1,685	172,094
26	1,062	292	-	0	-	41,693	41	1,124	-	181,522	-	294,058
3,565	5,781	1,758	-	780	2,508	18,908	1,666	7,494	5,459	226,550	2,048	413,867
-	5,998	294	-	1,913	4,753	71,957	-	88	5,491	16,443	11,806	177,946

3.22.3 Demand and Supply Table

Demand & Supply Table of Coal in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	201,995	-	33,086	354	1,143,269	-	82,754	567	1,214
Import	-	-	11,704	2,651	15,683	6,826	53	108,797	46,680
Export	-150,340	-	-16,753	-	-9,828	-0	-57,745	-	-
Stock Change	2,006	-	1,960	-79	-7,786	44	-1,320	745	1,356
Primary Energy Supply	53,661	-	29,997	2,926	1,141,337	6,870	23,742	110,109	49,249
Coal Transformation	-3,835	-	-2,902	-506	-183,984	-	-15	-38,574	-14,644
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-7,374	-	-	-	-
Power Generation (Public Utilities)	-47,234	-	-23,892	-1,957	-522,570	-6,869	-9,189	-48,922	-29,226
Power Generation (Auto Producers)	-	-	-1	-8	-50,730	-	-4,767	-9,309	-1,460
Final Energy Consumption	2,556	-	1,596	455	299,841	1	8,486	14,552	3,888

Demand & Supply Table of Crude Oil in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	24,130	10,487	148,009	175	181,353	-	48,137	794	534
Import	21,377	-	46,636	11,097	126,817	-	20,471	212,130	117,353
Export	-14,828	-9,806	-85,862	-	-8,067	-	-19,567	-	-3
Stock Change	-299	15	-2,375	27	-788	-	-	1,749	936
Primary Energy Supply	30,379	697	106,407	11,299	299,315	-	49,041	214,674	118,820
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-34,093	-706	-99,230	-11,037	-290,405	-	-44,642	-213,946	-126,111
Gas processing	-	-	-	-	-	-	-	-	-
Power Generation (Public Utilities)	-	-	-	-	-	-	-	-5,916	-
Power Generation (Auto Producers)	-	-	-	-	-216	-	-	-	-
Final Energy Consumption	-	-	-	-	3,661	-	-	-	-

Demand & Supply Table of Natural Gas & LNG in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	35,226	11,143	154,077	1,929	47,429	-	68,663	2,855	441
Import	-	-	7,833	5,280	-	2,033	-	68,070	26,112
Export	-12,260	-9,556	-87,402	-	-2,764	-	-30,953	-	-
Stock Change	-	-	6,116	-160	-	-	-	-12	863
Primary Energy Supply	22,966	1,587	80,624	7,048	44,665	2,033	37,710	70,913	27,415
Coal Transformation	-131	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-282	-	-1,170	-2,245	7,979	586	-7,877	1,789	-
Power Generation (Public Utilities)	-4,991	-970	-6,115	-2,335	-	-2,033	-3,423	-45,108	-10,485
Power Generation (Auto Producers)	-2,873	-108	-1,397	-377	-5,092	-	-	-3,082	-591
Final Energy Consumption	13,527	13	51,626	1,277	38,454	586	11,093	24,758	15,986

Demand & Supply Table of Coal in 2005 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
408	5,159	3,057	-	30	1,520	138,974	-	-	5,220	564,171	18,142	2,199,919
6,277	3,539	557	-	657	3,710	12,299	-	39,704	4,281	18,069	57	281,543
-42	-	-1,684	-	-	-	-43,650	-	-	-	-27,912	-10,072	-318,027
-23	-561	74	-	70	-	-2,364	-	-463	-	3,229	-1,044	-4,157
6,620	8,138	2,003	-	757	5,230	105,259	-	39,240	9,501	557,558	7,082	2,159,279
-	-1,135	-402	-	-	-	-24,543	-	-4,167	-	-92,263	-	-366,971
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-1,888	-	-9,262
-5,260	-6,914	-1,211	-	-230	-4,134	-52,217	-	-21,458	-4,725	-421,928	-2,132	-1,210,068
-	-	-8	-	-	-	-19,909	-	-6,587	-	-4,441	-	-97,221
1,280	90	486	-	527	1,184	8,185	-	4,818	5,663	24,576	4,950	383,135

Demand & Supply Table of Crude Oil in 2005 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
36,746	197,288	1,060	2,462	4,074	765	468,711	-	29	9,893	322,552	18,935	1,476,134
8,242	382	4,829	917	4,698	10,301	2,438	54,738	54,576	41,693	599,509	-	1,338,205
-19,073	-105,477	-622	-2,344	-609	-738	-253,850	-	-	-3,453	-4,911	-18,290	-547,500
884	-77	-63	-	95	165	-458	-	-302	1,418	-5,516	-645	-5,233
26,799	92,116	5,203	1,036	8,258	10,493	216,841	54,738	54,303	49,550	911,635	0	2,261,606
-	-	-	-	-	-	-	-	-	-	-	-	-
-24,551	-84,586	-5,096	-993	-7,782	-9,958	-213,129	-54,738	-54,431	-46,494	-851,394	-	-2,173,319
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-5,916
-	-	-	-	-	-	-766	-	-	-	-	-	-982
-	-	-	13	-	-	70	-	-	3,046	-	-	6,791

Demand & Supply Table of Natural Gas & LNG in 2005 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
51,992	36,904	3,201	241	2,221	2,701	515,726	-	487	20,726	421,558	5,935	1,383,455
1,213	7,440	-	-	-	-	6,200	5,234	9,842	8,179	101,313	-	248,747
-26,791	-211	-	-	-	-	-167,386	-	-	-	-17,004	-1,286	-355,613
-	21	1	-	-	-	-4,950	-	147	-	1,417	-	3,442
26,414	44,154	3,201	241	2,221	2,701	349,591	5,234	10,476	28,905	507,284	4,649	1,280,031
-	-	-	-	-	-	-	-	-	-	-	-	-131
-	-	-	-	-	-	-	-	-	-	-	-	-
-5,822	-	-	-	-296	-	-	96	-595	-	1,198	-	-6,639
-11,112	-15,841	-1,584	-	-1,195	-2,492	-126,942	-5,234	-7,340	-18,863	-136,890	-4,549	-407,502
-836	-4,656	-158	-120	-68	-	-76,796	-	-178	-2,341	-17,766	-	-116,439
6,322	13,787	1,298	-	179	12	128,025	96	1,986	2,069	317,072	100	628,265

Demand & Supply Table of Coal in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	201,355	-	32,536	277	1,239,304	-	105,348	685	1,210
Import	-	-	11,219	3,168	23,048	7,182	60	106,337	50,173
Export	-150,035	-	-16,445	-	-33,144	-0	-78,093	-	-
Stock Change	2,766	-	191	-2	5,338	-331	-	-528	1,022
Primary Energy Supply	54,087	-	27,501	3,443	1,234,546	6,851	27,315	106,494	52,406
Coal Transformation	-3,328	-	-2,926	-504	-217,308	-	-19	-39,765	-14,838
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-	-7,260	-	-	-	-
Power Generation (Public Utilities)	-48,120	-	-22,790	-2,483	-601,591	-6,851	-15,092	-47,318	-32,183
Power Generation (Auto Producers)	-	-	-1	-8	-55,615	-	-	-9,113	-1,555
Final Energy Consumption	2,602	-	1,537	448	302,877	0	11,527	14,614	4,453

Demand & Supply Table of Crude Oil in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	23,080	11,208	155,929	154	184,766	-	48,922	779	571
Import	20,026	-	42,763	11,483	145,175	-	15,768	210,313	122,773
Export	-12,550	-10,536	-95,274	-	-6,337	-	-18,019	-	-2
Stock Change	-829	77	173	-500	-1,111	-	-	-1,007	-1,485
Primary Energy Supply	29,727	749	103,591	11,137	322,492	-	46,672	210,085	121,857
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-33,188	-735	-98,035	-11,683	-310,460	-	-44,402	-208,379	-129,124
Gas processing	-	-	-	-	-	-	-	-	-
Power Generation (Public Utilities)	-	-	-	-	-	-	-	-6,557	-
Power Generation (Auto Producers)	-	-	-	-	-238	-	-	-	-
Final Energy Consumption	-	-	-	-	4,103	-	-	-	-

Demand & Supply Table of Natural Gas & LNG in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	36,933	11,816	154,909	2,054	54,513	-	67,942	3,061	393
Import	1,204	-	7,939	5,365	88	2,185	-	73,004	29,550
Export	-14,611	-8,537	-83,973	-	-2,698	-	-29,590	-	-
Stock Change	-	-10	617	-349	-	-21	-	-26	-1,249
Primary Energy Supply	23,526	3,269	79,492	7,071	51,903	2,164	38,352	76,039	28,694
Coal Transformation	-79	-	-	-	-	-	-	-	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	1,050	-80	-1,169	-2,907	8,378	581	-7,906	1,291	73
Power Generation (Public Utilities)	-4,822	-1,040	-5,439	-2,131	-	-2,164	-3,752	-44,941	-11,933
Power Generation (Auto Producers)	-2,729	-883	-1,769	-124	-5,482	-	-	-3,279	-747
Final Energy Consumption	13,253	13	50,682	1,321	45,062	581	10,657	27,182	16,300

Demand & Supply Table of Coal in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
486	5,510	3,471	-	75	1,243	143,178	-	-	4,750	576,759	21,790	2,337,978
5,829	3,696	630	-	507	4,073	14,159	-	40,872	4,005	21,433	64	296,456
-60	-	-1,954	-	-	-	-50,013	-	-	-	-27,937	-11,936	-369,618
-234	-1,207	-54	-	13	-	569	-	-28	-	-20,710	-872	-14,067
6,020	7,999	2,093	-	594	5,316	107,893	-	40,844	8,755	549,545	9,045	2,250,749
-	-1,078	-409	-	-	-	-24,346	-	-4,225	-	-76,118	-	-384,864
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-2,001	-	-9,260
-5,095	-6,812	-1,143	-	-233	-3,714	-55,112	-	-22,379	-4,816	-431,431	-3,517	-1,310,680
-	-	-12	-	-	-	-19,599	-	-6,739	-	-4,712	-	-97,354
1,141	109	528	-	367	1,324	8,241	-	5,244	4,709	22,707	5,528	387,956

Demand & Supply Table of Crude Oil in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
34,986	192,615	1,015	2,867	5,456	702	478,206	-	21	10,283	317,991	17,510	1,487,061
8,043	465	4,780	993	5,330	10,354	2,332	52,745	52,199	41,773	604,626	-	1,351,941
-17,330	-104,448	-752	-2,482	-1,256	-678	-249,687	-	-	-3,349	-5,613	-17,510	-545,822
103	-314	122	-294	-188	-80	-2,149	-	-293	2,414	1,014	-	-4,349
25,802	88,318	5,165	1,084	9,342	10,298	228,702	52,745	51,927	51,122	918,018	-	2,288,832
-	-	-	-	-	-	-	-	-	-	-	-	-
-24,971	-80,378	-5,250	-1,060	-8,701	-9,897	-225,048	-52,745	-52,244	-48,094	-858,256	-	-2,202,649
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-6,557
-	-	-	-	-	-	-779	-	-	-	-	-	-1,016
-	-	-	12	-	-	59	-	-	2,801	-	-	6,975

Demand & Supply Table of Natural Gas & LNG in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
49,449	42,211	3,279	259	1,859	2,530	525,756	-	412	14,144	431,050	6,638	1,409,206
2,895	8,291	-	-	-	-	5,815	5,649	10,673	7,952	97,606	-	258,217
-25,957	-296	-	-	-	-	-163,852	-	-	-	-16,880	-1,530	-347,925
-	37	-	-	-	-	-9,093	-	-128	-	-10,133	-	-20,353
26,386	50,242	3,279	259	1,859	2,530	358,625	5,649	10,957	22,097	501,643	5,108	1,299,145
-	-	-	-	-	-	-	-	-	-	-	-	-79
-	-	-	-	-	-	-	-	-	-	-	-	-
-4,809	-	-	-	-	-	-	108	-751	-	1,267	-	-4,872
-10,773	-19,444	-1,683	-	-1,043	-2,311	-192,545	-5,649	-7,574	-17,784	-145,009	-4,872	-484,912
-1,208	-7,297	-157	-111	-	-	-17,119	-	-163	-2,162	-18,031	-	-61,262
8,142	14,676	1,410	-	334	53	130,665	108	2,010	2,151	299,302	326	624,226

3.22.4 Power Generation Table

Power Generation Table in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	251,659	3,298	612,594	55,320	2,865,726	44,257	133,108	1,163,577	403,954
Thermal	231,872	3,298	147,504	23,860	2,369,603	44,257	116,795	726,388	249,362
Hydro	16,028	-	355,511	28,779	435,786	-	9,623	97,650	5,219
Nuclear	-	-	97,964	-	54,843	-	-	304,291	148,749
Geothermal	-	-	-	-	-	-	6,658	3,140	-
Others	3,759	-	11,615	2,680	5,494	-	32	32,109	624
Public Utilities	238,763	2,948	560,559	51,705	2,673,551	44,257	133,108	974,435	379,406
Thermal	220,584	2,948	137,929	22,887	2,177,428	44,257	116,795	575,217	225,035
Hydro	15,748	-	322,095	28,241	435,786	-	9,623	89,389	5,219
Nuclear	-	-	97,964	-	54,843	-	-	304,291	148,749
Geothermal	-	-	-	-	-	-	6,658	2,938	-
Others	2,431	-	2,571	578	5,494	-	32	2,600	403
Auto Producers	12,896	350	52,035	3,614	192,175	-	-	189,142	24,548
Thermal	11,288	350	9,575	974	192,175	-	-	151,171	24,327
Hydro	280	-	33,416	538	-	-	-	8,261	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	202	-
Others	1,328	-	9,044	2,102	-	-	-	29,509	221

Power Generation Table in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	245,495	3,264	625,976	52,484	2,497,942	38,451	127,349	1,153,054	389,344
Thermal	226,842	3,264	159,633	23,405	2,045,018	38,451	109,964	738,283	236,937
Hydro	15,886	-	363,736	26,214	397,017	-	10,759	87,064	5,189
Nuclear	-	-	92,040	-	53,088	-	-	293,038	146,779
Geothermal	-	-	-	-	#VALUE!	-	6,604	3,225	-
Others	2,767	-	10,567	2,864	2,819	-	22	31,444	439
Public Utilities	233,259	2,913	577,195	48,938	2,334,221	38,451	127,349	963,215	362,794
Thermal	216,120	2,913	151,340	22,448	1,881,297	38,451	109,964	583,800	210,570
Hydro	15,612	-	332,277	25,652	397,017	-	10,759	80,715	5,189
Nuclear	-	-	92,040	-	53,088	-	-	293,038	146,779
Geothermal	-	-	-	-	-	-	6,604	3,019	-
Others	1,527	-	1,538	838	2,819	-	22	2,643	256
Auto Producers	12,236	351	48,781	3,546	163,721	-	-	189,839	26,550
Thermal	10,722	351	8,293	958	163,721	-	-	154,483	26,367
Hydro	274	-	31,459	562	-	-	-	6,350	-
Nuclear	-	-	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-	206	-
Others	1,240	-	9,029	2,026	-	-	-	28,801	183

Power Generation Table in 2006 (Continued)

												GWh
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
89,782	249,648	43,473	3,012	27,370	56,784	995,794	39,442	235,372	138,742	4,300,103	61,459	11,774,475
83,343	199,183	15,308	2,149	7,723	36,325	660,868	37,818	181,448	116,883	3,048,259	41,008	8,343,255
6,439	30,394	23,453	863	19,594	9,939	175,282	-	7,999	8,125	317,686	20,408	1,568,779
-	10,866	-	-	-	-	156,436	-	39,870	-	816,195	-	1,629,214
-	6,685	3,403	-	-	10,465	463	-	-	2	16,581	-	47,397
-	2,520	1,309	-	53	55	2,745	1,624	6,054	13,732	101,382	43	185,829
84,157	225,079	41,563	791	25,614	56,784	945,054	39,442	195,083	125,011	4,137,666	61,459	10,996,436
77,718	177,178	14,053	279	6,452	36,325	614,058	37,818	146,947	116,883	2,928,055	41,008	7,719,855
6,439	30,305	23,453	512	19,161	9,939	174,092	-	7,999	8,125	314,652	20,408	1,521,186
-	10,866	-	-	-	-	156,436	-	39,870	-	816,195	-	1,629,214
-	6,685	3,337	-	-	10,465	463	-	-	2	16,581	-	47,130
-	45	720	-	1	55	5	1,624	266	1	62,183	43	79,051
5,625	24,569	1,910	2,221	1,756	-	50,740	-	40,289	13,731	162,437	-	778,039
5,625	22,005	1,255	1,870	1,271	-	46,810	-	34,501	-	120,204	-	623,400
-	89	-	351	434	-	1,190	-	-	-	3,034	-	47,593
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	66	-	-	-	-	-	-	-	-	-	268
-	2,475	589	-	51	-	2,740	-	5,788	13,731	39,199	-	106,778

Power Generation Table in 2005 (Continued)

												GWh
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
87,306	242,007	43,091	3,002	25,510	56,568	953,086	38,213	227,449	132,195	4,293,860	53,462	11,289,108
81,523	193,142	15,264	2,111	7,453	38,260	625,981	37,176	175,001	112,695	3,078,075	35,899	7,984,377
5,784	27,659	23,330	891	17,977	8,387	174,604	-	7,909	5,798	297,926	17,497	1,493,626
-	10,805	-	-	-	-	149,446	-	39,972	-	810,726	-	1,595,894
-	7,299	3,188	-	-	9,902	410	-	-	2	16,778	-	47,408
-	3,102	1,309	-	80	19	2,645	1,037	4,567	13,700	90,355	66	167,802
82,622	218,971	41,241	809	23,811	56,568	905,846	38,213	187,204	118,495	4,135,191	53,462	10,550,768
76,839	173,251	14,045	269	6,243	38,260	582,499	37,176	139,246	112,695	2,960,458	35,899	7,393,782
5,784	27,611	23,330	540	17,567	8,387	173,484	-	7,909	5,798	294,595	17,497	1,449,722
-	10,805	-	-	-	-	149,446	-	39,972	-	810,726	-	1,595,894
-	7,299	3,131	-	-	9,902	410	-	-	2	16,778	-	47,145
-	5	735	-	1	19	7	1,037	77	0	52,634	66	64,225
4,684	23,036	1,850	2,193	1,699	-	47,240	-	40,244	13,700	158,669	-	738,339
4,684	19,891	1,219	1,842	1,210	-	43,482	-	35,754	-	117,617	-	590,595
-	48	-	351	410	-	1,120	-	-	-	3,331	-	43,904
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	57	-	-	-	-	-	-	-	-	-	263
-	3,097	574	-	79	-	2,638	-	4,490	13,700	37,721	-	103,578

3.2.2.5 Fuel Consumption Table for Power Generation

Fuel Consumption Table for Power Generation in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Main Activity Producer	54,107	1,040	30,211	5,226	602,470	9,053	27,554	120,169	43,876
Coal	48,120	-	22,790	2,483	601,591	6,851	15,092	47,318	29,293
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	367	-	-	1,299	-
Blast Furnace Gas	552	-	-	-	512	-	-	3,223	-
Crude Oil & NGL	-	-	-	-	-	-	-	6,551	-
LPG	-	-	-	-	-	-	-	-	-
Refinery Gas	-	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Diesel Oil	136	-	1,239	31	-	30	2,061	9,642	4,163
Fuel Oil	-	-	-	-	-	-	-	508	-
Natural Gas	4,822	1,040	5,439	2,131	-	2,164	3,752	44,941	9,944
Others	476	-	743	582	-	7	6,648	6,686	475
Auto Producers	3,065	891	1,829	244	90,314	-	-	25,148	5,326
Coal	-	-	1	8	55,615	-	-	9,113	1,474
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	29	-	3,532	-	-	591	274
Blast Furnace Gas	15	-	30	-	7,632	-	-	2,361	1,850
Crude Oil & NGL	-	-	-	-	238	-	-	-	-
LPG	-	-	-	18	1,801	-	-	1,084	-
Refinery Gas	-	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Diesel Oil	214	-	-	76	10,872	-	-	8,423	627
Fuel Oil	-	-	-	-	65	-	-	91	-
Natural Gas	2,729	883	1,769	124	5,482	-	-	3,279	650
Others	107	8	-	17	5,077	-	-	207	450

Fuel Consumption Table for Power Generation in 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Main Activity Producer	53,290	970	33,188	5,111	523,335	8,939	21,258	121,569	44,212
Coal	47,234	-	23,892	1,957	522,570	6,869	9,189	48,922	29,226
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	-	-	228	-	-	1,241	-
Blast Furnace Gas	573	-	-	-	538	-	-	3,127	-
Crude Oil & NGL	-	-	-	-	-	-	-	5,890	-
LPG	-	-	-	-	-	-	-	-	-
Refinery Gas	-	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	74	-	2,402	48	-	32	2,020	10,761	3,821
Fuel Oil	-	-	-	-	-	-	-	479	-
Natural Gas	4,991	970	6,115	2,335	-	2,033	3,423	45,108	10,485
Others	418	-	779	771	-	6	6,626	6,041	680
Auto Producers	3,231	116	1,486	502	86,070	-	5,380	26,152	5,064
Coal	-	-	1	8	50,730	-	4,767	9,309	1,460
Coke	-	-	-	-	-	-	-	-	-
Coke Oven Gas	-	-	43	-	1,904	-	-	582	212
Blast Furnace Gas	19	-	45	-	8,014	-	-	2,371	1,784
Crude Oil & NGL	-	-	-	-	216	-	-	-	-
LPG	-	-	-	21	1,317	-	-	1,121	-
Refinery Gas	-	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-	-
Gas/Diesel Oil	230	-	-	76	12,778	-	-	9,363	621
Fuel Oil	-	-	-	1	39	-	-	80	-
Natural Gas	2,873	108	1,397	377	5,092	-	-	3,082	591
Others	109	8	-	19	5,981	-	613	244	396

Fuel Consumption Table for Power Generation in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
16,655	40,060	2,831	92	1,606	7,057	253,542	6,861	33,141	24,539	651,777	8,872	1,940,739
5,095	6,812	1,143	-	233	3,714	55,112	-	22,379	4,816	431,431	3,517	1,307,790
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	49	-	1,715
-	-	-	-	-	-	-	-	-	-	495	-	4,782
-	-	-	-	-	-	-	-	-	-	-	-	6,551
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	76	-	76
169	13,374	-	46	276	887	5,885	1,082	2,942	1,903	8,276	398	52,543
-	-	-	-	-	-	-	-	-	-	-	-	508
10,773	19,444	1,683	-	1,043	2,311	192,545	5,649	7,574	17,784	145,009	4,872	482,923
617	431	5	46	54	145	-	130	246	35	66,440	85	83,851
1,242	7,403	603	517	142	-	55,291	-	8,806	2,169	25,243	-	228,234
-	-	12	-	-	-	19,599	-	6,739	-	4,712	-	97,273
-	-	-	-	-	-	5	-	-	-	-	-	5
-	21	-	-	-	-	1,775	-	90	-	193	-	6,505
-	86	434	-	-	-	5,120	-	360	-	1,074	-	18,963
-	-	-	-	-	-	779	-	-	-	-	-	1,016
-	-	-	-	-	-	904	-	39	-	-	-	3,846
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	1	-	1
-	-	-	210	4	-	7,535	-	810	8	519	-	29,298
-	-	-	-	-	-	111	-	-	-	-	-	267
1,208	7,297	157	111	-	-	17,119	-	163	2,162	18,031	-	61,165
33	-	-	195	138	-	2,344	-	604	-	713	-	9,894

Fuel Consumption Table for Power Generation in 2005 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
16,945	39,709	2,797	88	1,770	8,037	184,261	6,958	31,245	25,539	664,098	7,359	1,800,678
5,260	6,914	1,211	-	230	4,134	52,217	-	21,458	4,725	421,928	2,132	1,210,068
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	835	-	5,072
-	-	-	-	-	-	-	-	-	-	-	-	5,890
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	91	-	91
275	16,515	-	44	302	1,211	5,102	1,639	2,306	1,879	20,144	555	69,129
-	-	-	-	-	-	-	-	-	-	-	-	479
11,112	15,841	1,584	-	1,195	2,492	126,942	5,234	7,340	18,863	136,890	4,549	407,502
298	439	1	44	43	200	-	85	141	72	84,212	123	100,980
838	4,809	600	506	331	-	113,833	-	8,741	2,357	24,657	-	284,674
-	-	8	-	-	-	19,909	-	6,587	-	4,441	-	97,221
-	-	-	-	-	-	7	-	-	-	-	-	7
-	21	-	-	-	-	883	-	130	-	177	-	3,952
-	132	435	-	-	-	3,786	-	344	-	854	-	17,783
-	-	-	-	-	-	766	-	-	-	-	-	982
-	-	-	-	-	-	1,124	-	44	-	-	-	3,627
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	210	35	-	8,060	-	879	16	647	-	32,916
-	-	-	-	-	-	108	-	-	-	-	-	228
836	4,656	158	120	68	-	76,796	-	178	2,341	17,766	-	116,439
2	-	-	175	228	-	2,395	-	578	-	771	-	11,518

3.22.6 Stock Table by Energy Resources

Stock Table by Energy Resource in 2006

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Opening Stocks									
Hard Coal	-	-	-	-	3,683	-	-	-530	-
Coking Coal	-	-	-	-	929	-	-	-	-
Other bituminous coal	-	-	-	-	1,425	-	-	-530	-
Subbituminous Coal	-	-	-	-	1,330	-	-	-	-
Anthracite	-	-	-	-	1,521	-	-	2	-
Lignite	-	-	-	-	134	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
BKB/PB	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	2,312	77	9,319	-	-	-	-	14,484	11,534
Gasoline	743	-	1,885	-	-	-	-	1,529	463
Naphtha	246	1	449	-	-	-	-	657	225
Jet Fuel	-	-	3	-	-	-	-	-	-
Kerosene	473	-	2,159	-	975	-	-	1,326	1,524
Gas/Diesel Oil	196	-	456	-	-	-	-	2,631	1,373
Fuel Oil	173	0	156	-	-	-	-	2,447	992
LPG	-	-	-	-	-	-	-	-	-
Other Petroleum Products	619	0	2,435	-	-	-	-	328	219
Natural Gas	-	-	617	-	-	-	-	-26	-1,249
Others	-	-	-	-	-	-	-	-	-
Total Opening Stocks	4,761	78	17,480	-	6,314	-	-	22,848	15,080
Closing Stocks									
Hard Coal	-	-	-	2	-	331	-	-	-
Coking Coal	-	-	-	-14	-	-	-	-	-
Other bituminous coal	-	-	-	16	-	331	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	-
Lignite	-	-	-	-	-	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-31	2,251	-	-	-	-
BKB/PB	-	-	-	-	5	-	-	-	-
Crude Oil & NGL	2,927	-	8,802	500	1,111	-	-	15,491	13,061
Gasoline	785	2	1,889	235	75	-5	-	1,578	546
Naphtha	198	-	392	106	45	-105	-	672	299
Jet Fuel	-	-	3	-	2	-	-	-	-
Kerosene	500	6	2,245	507	-	-129	-	1,358	1,906
Gas/Diesel Oil	154	-	512	-152	841	475	-	3,050	1,576
Fuel Oil	198	-	114	170	16	10	-	2,771	1,024
LPG	-	-	-	0	-	-	-	-	-
Other Petroleum Products	749	0	3,149	-78	-	-	-	334	254
Natural Gas	-	-	-	344	-	21	-	-	-
Others	-	-	-	1	-	-	-	-	-
Total Closing Stocks	5,510	8	17,105	1,604	4,347	597	-	25,254	18,666
Stock Change									
Hard Coal	2,766	-	191	-2	3,683	-331	-	-530	225
Coking Coal	1	-	-338	14	929	-	-	-	431
Other bituminous coal	1,564	-	1,804	-16	1,425	-331	-	-530	-206
Subbituminous Coal	1,202	-	-1,275	-	1,330	-	-	-	-
Anthracite	-	-	-	-	1,521	-	-	2	797
Lignite	-	-	-	-	134	-	-	-	-
Peat	-	-	-	-	-	-	-	-	-
Coke	-497	-	30	31	-2,251	-	-	-	-
BKB/PB	128	-	-	-	-5	-	-	-	-
Crude Oil & NGL	-615	77	516	-500	-1,111	-	-	-1,007	-1,527
Gasoline	-43	-2	-3	-235	-75	5	-	-49	-82
Naphtha	48	1	58	-106	-45	105	-	-15	-75
Jet Fuel	-	-	-	-	-2	-	-	-	-
Kerosene	-27	-6	-86	-507	975	129	-	-32	-383
Gas/Diesel Oil	42	-	-56	152	-841	-475	-	-419	-204
Fuel Oil	-25	0	42	-170	-16	-10	-	-324	-32
LPG	-	-	-	-0	-	-	-	-	-
Other Petroleum Products	-130	0	-714	78	-	-	-	-5	-35
Natural Gas	-	-	617	-344	-	-21	-	-26	-1,249
Others	-	-	-	-1	-	-	-	-	-
Total Stock Change	1,648	70	595	-1,604	1,967	-597	-	-2,406	-2,563

Stock Table by Energy Resource in 2006 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
923	-	-	-	42	-	494	-	3,676	-	-	-	8,288
-	-	-	-	-	-	237	-	330	-	-	-	1,496
-	-	-	-	42	-	257	-	3,335	-	-	-	4,528
923	-	-	-	-	-	-	-	11	-	-	-	2,264
-	-	-	-	-29	-	52	-	20	-	-	-	1,566
-	-	-	-	-	-	-8	-	-	-	-	-	126
-	-	-	-	-	-	31	-	-	-	-	-	31
-	-	-	-	-16	-	21	-	135	-	-	-	141
-	-	-	-	-	-	1	-	-	-	-	-	1
554	2,877	442	-	-	-80	37,335	-	3,967	2,798	128,169	-	213,787
188	1,286	220	-	-	66	1,928	-	966	-	21,472	-	30,746
-	98	87	-	-	-	-	-	327	-	4,243	-	6,333
-	-	-	-	-	-	-	-	23	-	-	-	26
505	1,025	177	-	-	6	3,363	-	1,007	733	18,032	-	31,305
13	498	92	-	-	-38	5,391	-	376	-	8,650	-	19,637
8	145	6	-	-	13	141	-	211	-	5,685	-	9,977
-	-	-	-	-	-	-	-	-	-	-	-	-
810	92	81	-	-	-15	-	-	-	-	7,159	-	11,729
-	37	-	-	-	-	41,864	-	-	-	-10,133	-	31,110
-	-	-	-	-	-	-	-	-	-	-	-	-
3,001	6,058	1,106	-	-3	-48	90,613	-	10,709	3,531	183,276	-	364,804
1,157	-	-	-	-	-	-	-	3,724	-	-	-	5,214
-	-	-	-	-	-	-	-	354	-	-	-	340
-	-	-	-	-	-	-	-	3,357	-	-	-	3,705
1,157	-	-	-	-	-	-	-	13	-	-	-	1,170
-	-	-	-	-	-	-	-	-	-	-	872	872
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	135	-	-	-	2,355
-	-	-	-	-	-	-	-	-	-	-	-	5
472	3,191	332	294	188	-	39,483	-	4,260	-	126,803	-	216,917
165	1,204	190	-	578	-	2,115	-	1,091	-34	21,937	-	32,351
-	168	71	-	-312	-	-	-	478	82	4,260	-	6,354
-	-	-	-	-	-	-	-	34	-	-	-	39
192	1,184	205	-	215	-	3,684	-	1,167	-	19,713	-	32,752
23	374	125	-	448	-	6,957	-	549	132	10,734	-	25,798
18	92	3	-	39	-	190	-	245	135	6,455	-	11,480
-	-	-	-	-	-	-	-	-	-	-	-	0
788	101	82	-	89	-	-	-	-	-	8,788	-	14,254
-	-	-	-	-	-	50,956	-	-	-	-	-	51,321
-	-	-	-	-	-	-	-	-	-	-	-	1
2,814	6,314	1,009	294	1,246	-	103,386	-	11,683	315	198,689	872	399,714
-234	-1,207	-64	-	42	-	494	-	-48	-	-20,279	-	-15,293
-	-929	-33	-	-	-	237	-	-24	-	-190	-	97
-	-	30	-	42	-	257	-	-22	-	-9,779	-	-5,762
-234	-278	-61	-	-	-	-	-	-2	-	-10,310	-	-9,628
-	-	-	-	-29	-	52	-	20	-	-196	-872	1,295
-	-	10	-	-	-	-8	-	-	-	-235	-	-99
-	-	-	-	-	-	31	-	-	-	-	-	31
-	542	-	-	-16	-	21	-	-	-	-42	-	-2,181
-	-	-	-	-	-	1	-	-	-	-	-	124
82	-314	111	-294	-188	-80	-2,149	-	-293	2,798	1,366	-	-3,130
23	82	30	-	-578	66	-187	-	-125	34	-465	-	-1,605
-	-70	16	-	312	-	-	-	-151	-82	-17	-	-21
-	-	-	-	-	-	-	-	-11	-	-	-	-13
314	-159	-28	-	-215	6	-321	-	-159	733	-1,681	-	-1,446
-10	124	-33	-	-448	-38	-1,566	-	-173	-132	-2,084	-	-6,160
-11	53	2	-	-39	13	-49	-	-34	-135	-770	-	-1,503
-	-	-	-	-	-	-	-	-	-	-	-	-0
22	-9	-1	-	-89	-15	-	-	-	-	-1,629	-	-2,526
-	37	-	-	-	-	-9,093	-	-	-	-10,133	-	-20,211
-	-	-	-	-	-	-	-	-	-	-	-	-1
187	-922	43	-294	-1,249	-48	-12,772	-	-974	3,217	-36,165	-872	-52,740

3.22.7 Power Generation Capacity Table

Power Generation Capacity - Total

MW

	1980	1985	1990	1995	2000	2004	2005	2006
Australia	24,141	32,450	35,495	40,030	46,304	51,116	50,958	51,368
Brunei Darussalam	148	268	334	650	763	874	759	759
Canada	81,999	97,019	104,141	115,505	111,324	120,459	122,838	125,814
Chile	2,940	3,967	4,079	5,577	10,372	11,562	12,363	13,442
China	65,869	87,053	137,891	217,225	319,321	440,700	508,410	622,000
Hong Kong, China	3,342	5,580	8,342	10,096	11,568	9,703	11,804	12,320
Indonesia	2,554	5,635	9,275	14,970	20,762	27,327	27,664	30,958
Japan	143,698	169,398	194,730	226,995	258,838	272,701	274,558	274,467
Republic of Korea	9,391	16,137	21,021	32,184	53,693	64,532	66,537	70,081
Malaysia	2,334	4,443	5,582	10,600	13,762	24,634	23,626	21,088
Mexico	14,625	20,807	28,267	35,859	40,519	51,119	51,071	53,795
New Zealand	6,112	7,532	7,176	7,920	8,456	8,915	8,884	8,912
Papua New Guinea	313	491	490	490	543	N.A.	N.A.	N.A.
Peru	3,140	3,682	4,143	4,520	6,070	6,016	6,201	6,658
Philippines	4,478	6,222	6,869	9,696	13,185	15,548	15,619	15,803
Russia	168,200	195,800	213,400	215,000	214,011	216,647	N.A.	69,901
Singapore	2,010	2,571	3,667	4,678	6,610	9,509	10,106	-
Chinese Taipei	9,056	15,970	16,883	21,898	27,385	41,958	43,146	45,009
Thailand	3,448	6,705	8,725	14,757	20,802	25,907	26,269	26,815
United States of America	578,600	655,182	733,589	776,333	812,593	1,050,656	1,068,570	1,077,692
Viet Nam	1,185	1,500	2,537	4,499	6,192	11,273	N.A.	11,823

Power Generation Capacity - Thermal Power

MW

	1980	1985	1990	1995	2000	2004	2005	2006
Australia	18,038	25,537	27,174	31,451	37,041	41,396	40,863	41,193
Brunei Darussalam	148	268	334	650	763	874	759	759
Canada	28,363	30,475	31,201	34,269	33,183	36,319	36,794	38,308
Chile	1,470	1,700	1,789	2,246	6,244	6,688	6,933	7,953
China	45,551	60,638	101,845	162,941	237,540	324,900	384,130	484,050
Hong Kong, China	3,342	5,580	8,342	10,096	11,568	9,703	11,804	12,320
Indonesia	2,176	4,540	7,040	12,482	17,386	23,328	23,643	26,626
Japan	98,071	110,161	124,984	141,665	166,648	177,472	177,223	175,767
Republic of Korea	7,647	11,048	11,065	20,475	36,817	43,899	45,365	46,666
Malaysia	1,721	3,121	4,185	8,840	11,708	22,337	21,242	18,758
Mexico	8,483	13,850	19,012	24,457	28,648	38,210	38,156	40,634
New Zealand	1,852	2,668	2,296	2,386	2,809	2,911	2,913	2,926
Papua New Guinea	213	366	335	335	319	N.A.	N.A.	N.A.
Peru	1,273	1,515	1,744	2,053	3,210	2,905	2,938	3,395
Philippines	3,089	3,366	3,661	6,275	8,953	10,399	10,393	10,542
Russia	122,400	137,300	149,700	149,700	148,900	148,316	N.A.	-
Singapore	2,010	2,571	3,667	4,678	6,610	9,509	10,106	-
Chinese Taipei	6,398	8,337	9,177	12,571	17,819	31,619	32,756	34,564
Thailand	2,178	4,701	6,451	12,019	17,865	20,240	20,575	21,023
United States of America	444,181	485,305	536,667	571,659	610,124	837,119	851,750	857,661
Viet Nam	890	1,000	1,362	1,633	2,900	7,145	N.A.	7,137

Power Generation Capacity - Hydro Power

MW

	1980	1985	1990	1995	2000	2004	2005	2006
Australia	6,103	6,913	8,321	8,564	9,201	9,271	9,285	9,285
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	47,770	55,880	59,381	64,750	67,407	70,857	71,978	72,661
Chile	1,470	2,267	2,290	3,331	4,128	4,726	4,812	4,862
China	20,318	26,415	36,046	52,184	79,352	108,260	116,520	128,570
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	378	1,065	2,095	2,180	3,015	3,199	3,221	3,532
Japan	29,776	34,337	37,831	43,455	46,325	46,803	47,348	47,357
Republic of Korea	1,157	2,223	2,340	3,093	3,149	3,879	3,883	5,485
Malaysia	613	1,322	1,397	1,760	2,054	2,095	2,091	2,120
Mexico	5,992	6,532	7,880	9,329	9,634	10,565	10,571	10,734
New Zealand	4,022	4,593	4,619	5,259	5,193	5,345	5,345	5,345
Papua New Guinea	100	125	155	155	224	N.A.	N.A.	N.A.
Peru	1,868	2,166	2,400	2,467	2,860	3,056	3,207	3,216
Philippines	943	1,962	2,153	2,258	2,301	3,217	3,222	3,257
Russia	37,500	41,500	43,400	44,000	43,900	45,531	N.A.	46,062
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	1,386	1,489	1,562	4,183	4,422	4,512	4,512	4,512
Thailand	1,270	2,004	2,274	2,738	2,936	3,476	3,476	3,476
United States of America	81,700	88,900	92,360	100,060	98,881	98,404	98,887	99,282
Viet Nam	250	450	1,176	2,866	3,292	4,128	N.A.	4,401

Power Generation Capacity - Nuclear Power

MW

	1980	1985	1990	1995	2000	2004	2005	2006
Australia	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	5,866	10,664	13,538	16,393	10,615	12,805	13,345	13,345
Chile	-	-	-	-	-	-	-	-
China	-	-	-	2,100	2,100	6,840	6,840	6,850
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Japan	15,689	24,686	31,645	41,356	45,248	47,122	48,222	49,580
Republic of Korea	587	2,866	7,616	8,616	13,716	16,716	17,176	17,716
Malaysia	-	-	-	-	-	-	-	-
Mexico	-	-	675	1,309	1,365	1,365	1,365	1,365
New Zealand	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	N.A.	N.A.	N.A.
Peru	-	-	-	-	-	-	-	-
Philippines	-	-	-	-	-	-	-	-
Russia	8,300	17,000	20,300	21,300	21,200	22,742	N.A.	23,742
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	79,397	99,643	99,515	97,860	105,560	105,585	105,585
Viet Nam	-	-	-	-	-	-	N.A.	-

Power Generation Capacity - Others

	1980	1985	1990	1995	2000	2004	2005	2006
Australia	-	-	-	15	62	449	810	890
Brunei Darussalam	-	-	-	-	-	-	-	-
Canada	-	-	21	93	119	478	721	1,500
Chile	-	-	-	-	-	148	619	627
People's Republic of China	-	-	-	-	329	700	920	2,530
Hong Kong, China	-	-	-	-	-	-	-	-
Indonesia	-	30	140	308	360	800	800	800
Japan	162	214	270	519	617	1,304	1,765	1,763
Republic of Korea	-	-	-	-	11	38	113	214
Malaysia	-	-	-	-	-	202	293	210
Mexico	150	425	700	764	872	979	979	1,062
New Zealand	238	271	261	275	454	659	626	641
Papua New Guinea	-	-	-	-	-	N.A.	N.A.	N.A.
Peru	-	-	-	-	1	55	55	47
Philippines	446	894	1,055	1,163	1,931	1,932	2,004	2,004
Russia	-	-	-	-	11	58	N.A.	97
Singapore	-	-	-	-	-	-	-	-
Chinese Taipei	-	1,000	1,000	-	-	683	735	789
Thailand	-	-	-	-	1	2,191	2,218	2,316
United States of America	909	1,580	4,919	5,099	5,728	9,573	12,348	15,164
Viet Nam	45	50	-	-	-	-	N.A.	285

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 country of ultimate origin; refinery feedstocks and finished products should be reported as coming from the country 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 country to the final destination.

3. International Marine Bunkers

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. 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.

5. 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.

6. 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 country'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 International Civil Aviation

All aviation activities for international passenger and freight services.

2.2 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.

2.3 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.

2.4 Rail

Refers to rail traffic, including industrial railways.

2.5 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.

2.6 Pipeline Transport

Refers to transport of goods through pipelines.

2.7 Not Elsewhere Specified

Transport activities not included elsewhere.

3. Other Sector

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

3.1 Commercial and Public Services

These refer to business and offices in the public and private sectors. ISIC Divisions 41, 50, 51, 52, 55, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 80, 85, 90, 91, 92, 93 and 99. (NACE Divisions 50, 51, 52, 41, 55, 63, 64, 65, 66, 67, 70, 71, 72, 74, 75, 80, 85, 90, 91, 92, 93, 99).

3.2 Residential

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

3.3 Agriculture

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

3.4 Fishing

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

3.5 Not elsewhere specified

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

3.6 Non-energy Use

Refers to use of energy products as raw materials in the different sectors; that is, not consumed as a fuel or transformed into another fuel. Example: In industry, coal used to make methanol or ammonia.

This is further classified into:

- **Chemical (incl. the petrochemical sector):** Non-energy use of coal includes uses as feedstocks to produce fertilizer and as feedstocks for other petrochemical products.
- **Transport Sector:** Non-energy use in all Transport sub sectors.
- **Other Sector:** Non-energy use in Commercial and Public Services, Residential, Agriculture and Not elsewhere specified.

C. Energy Prices

ENERGY PRICES

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

Table 1. Import Prices

These are import prices based on CIF. These prices are obtained by dividing the value by the volume in foreign trade. Value and volume are recorded by customs administrations for each tariff position. Values recorded at the import stage include cost, insurance and freight (CIF) but exclude import duties.

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

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

Table 2. Wholesale Prices

Table 2 contains wholesale prices. These are the prices that a buyer pays for large volume purchases whether for own consumption or retail. Examples are prices paid by

electricity distribution companies to electricity generators or suppliers.

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

Table 3. Consumer Prices

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

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

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

DEFINITION OF COLUMNS AND ROWS OF THE ENERGY BALANCE TABLE

1. Unit

For the purpose of presenting its energy balances APEC has adopted kcal and Joules. 10^7 kcal (41.863 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 8: Nuclear shows the primary heat equivalent of the electricity produced by a nuclear power plant with an average thermal efficiency of 33 percent.

Column 9: 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 10: 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 11: 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 12: 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 13: TOTAL = the total of columns (1) to (12).

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: International marine bunkers cover those quantities delivered to sea-going ships of all flags. Consumption by ships and planes engaged in transport in inland and coastal waters is not included.

Row 5: 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 6: 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 7: Transfers refer to Interproduct Transfers, Product Transferred, liquid products from Gas Separation and Recycled Products as defined in Appendix 2.

Row 8: Main Activity Producer electricity, column 1 to 10 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 13, as a negative number.

Row 9: Auto-producers of electricity, columns 1 to 10 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 12, "Electricity". Transformation losses appear in the "Total", column 13 as a negative number.

Row 10: 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 "Natural 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 11: The row Petroleum refineries shows the transformation of crude oil, NGL and condensate to petroleum products.

Row 12: 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 13: 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 14: Own use & loss: 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 15: Discrepancy is a category which includes the sum of the unexplained statistical differences for individual fuels.

Row 16: 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 17: Consumption of the Industry sector (energy used for transport by industry is not included here but reported under transport).

Row 18: The Transport sector includes all fuels for transport, except international marine bunkers. It includes transport in the industry sector and covers road, railway, internal and international air, internal navigation (including small craft, fishing vessels and coastal shipping not included under marine bunkers) and non-specified transport.

Row 19: Other sectors cover agriculture, residential, commercial and public services and non-specified consumption.

Row 20: Consumption of the Residential and Commercial sectors. Public services also is included here.

Row 21: Consumption of the Agriculture sector.

Row 22: Other shows non-specified use which may include military use.

Row 23: 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 15). 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 2005

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal									
Coking Coal	6,806		6,765	6,500	5,775			6,512	6,599
Anthracite			6,615		6,565	6,998		6,174	4,285
Other Bituminous Coal	6,137		6,093	6,500	5,073	6,306		6,057	5,946
Sub-bituminous Coal	4,413		4,250		4,675		5,437	5,100	4,991
Lignite	2,223		3,454		3,363				
Peat									
Coal Products									
Patent Fuels					6,800			5,758	4,743
Coke Oven Coke	6,125		6,540	7,000	8,000			7,190	6,499
Coal Tar				10,400	4,170				
Coal Briquettes	5,014						4,513		
Crude Oil and NGL									
Crude Oil	10,338	10,210	10,220	10,862	10,000		9,828	10,139	10,200
Natural Gas Liquids	10,846	10,210	10,800				9,828	11,205	10,200
Refinery Feedstocks	10,338		10,150					10,500	10,700
Additives/Oxygenates	6,000		6,000						6,000
Other Hydrocarbons			10,000						10,000
Petroleum Products									
Refinery Gas	11,500	11,500	11,500	5,046	11,000			10,515	11,500
Ethane	11,300		11,300						11,300
LPG	11,300	11,300	11,300	12,100	12,000	10,867	9,848	11,392	11,300
Naptha	10,750		10,750	11,500	9,176	10,533	10,492	10,501	10,750
Motor Gasoline	10,700	10,700	10,700	11,200	10,300	10,207	10,492	10,654	10,700
Bio-ethanol	6,400		6,400						6,400
Aviation Gasoline	10,700		10,700	11,400			10,602		10,700
Gasoline Type Jet Fuel	10,700		10,700		10,300				10,700
Kerosene Type Jet Fuel	10,650	10,650	10,650	11,100	10,300	10,254	9,401	10,631	10,650
Other Kerosene	10,450		10,450	11,100	10,300	10,524	9,461	10,232	10,450
Gas/Diesel Oil	10,350	10,350	10,350	10,900	10,200	10,151	10,296	10,284	10,350
Bio-diesel	10,350		10,350						10,350
Fuel Oil	9,600	9,600	9,600	10,500	10,000	9,912	9,034	10,520	9,600
White Spirit SBP	9,600		9,600		9,176				9,600
Lubricants	9,600	9,600	9,600		9,176			10,239	9,600
Bitumen	9,600	9,600	9,600		9,176				9,600
Paraffin Wax	9,600		9,600		9,176				9,600
Petroleum Coke	7,400		7,400	7,000	9,176			8,081	7,400
Other Products	9,600		9,600		9,176		11,511	9,599	9,600
Natural Gas									
Natural Gas	8,575	9,278	8,224	8,407	9,310	9,074	8,116	8,385	8,960
New and Renewables									
Fuelwood and Wooddewaste	3,701		3,701	3,500				3,702	3,701
Bagasse	1,958		1,958						1,958
Charcoal	6,897		6,897					6,898	6,897
Other Biomass	3,701		3,701				3,702		3,701
Biogas						10,000			
Industrial Waste	3,343		3,343					3,344	3,343
Municipal Solid Waste	3,343		3,343					3,344	3,343
Liquid Biofuels	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 2005 (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
	5,608	6,782				5,450		7,386	7,500	6,690	5,600
				7,001				6,745	6,300	6,666	5,600
	5,608	6,782		7,288		5,450		6,201		6,364	
5,985	4,634	5,034			5,278	3,800		5,605	2,500	4,767	
		3,429				3,800		3,957		3,500	2,000
						2,380					
								3,610		5,929	
	6,333			6,523		6,930	6,438	6,650	6,600	6,560	
						4,200			6,300		
10,321	10,536	10,147	10,120	9,634	10,180	10,050	10,709	10,442	10,089	10,285	10,180
10,581	10,189	10,903	10,120	10,684	11,190	10,010			10,089	11,137	
10,349		10,010		10,157	10,142					10,525	
	6,000	6,000			10,142					6,000	
										12,182	
10,149	11,500	11,500	10,515	10,700	11,192	11,500	11,500	14,996		11,500	
	11,300	11,300			10,750					11,300	
10,877	11,300	11,300	11,393	10,917	10,300	11,300	11,923	11,893	11,669	11,300	10,880
	10,750	10,750	10,500	10,335			11,923	10,924		10,750	10,750
10,500	10,700	10,700	10,654	10,479	10,700	10,700	11,174	10,494	10,223	10,700	10,500
	6,400	6,400								6,400	
10,316	10,700	10,700		9,996	10,650	10,700		10,669	11,566	10,700	
	10,700	10,700		10,307	10,450			10,485	11,566	10,700	
	10,650	10,650	10,632	10,140	10,120	10,650	12,425	10,038	11,566	10,650	10,320
10,150	10,450	10,450	10,233	10,140	10,142	10,450	11,140	10,600	11,566	10,450	10,320
10,150	10,350	10,350	10,284	10,140	10,110	10,350	10,957	10,546	10,018	10,350	10,150
	10,350	10,350								10,350	
9,912	9,600	9,600	10,520	9,609	9,600	9,553	9,839	9,609	10,011	9,600	9,910
	9,600	9,600			9,600	9,600				9,600	
	9,600	9,600	10,240	9,600		9,600		9,600		9,600	
	9,600	9,600		9,600		9,600		10,000		9,600	
	9,600	9,600			10,180	9,600				9,600	
	7,400	7,400	8,078			7,400		8,200		7,400	
10,150	9,600	9,600	9,602	9,600		9,600	10,320	12,496	9,940	9,600	9,600
8,385	8,564	8,008	8,113	9,789	8,233	8,076	8,385	9,900	8,228	8,242	9,800
	3,701	3,701		3,428	3,636	3,701		3,039	3,820	3,701	
	1,958	1,958		1,430	4,254	1,958			1,800	1,958	
	6,897	6,897		6,174	6,644	6,897			6,900	6,897	
	3,701	3,701		3,419	3,371	3,701			3,235	3,701	3,304
								3,690			
	3,343	3,343				3,343				3,343	
	3,343	3,343				3,343		2,092	1,160	3,343	
	6,386	6,386			10,142	6,386				6,386	