



Asia-Pacific
Economic Cooperation

APEC ENERGY STATISTICS 2 0 0 3

Energy Working Group
November 2005

Coordinating Agency:

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PREFACE

APEC Energy Statistics 2003 consists of the following three chapters;

1. Explanation of the APEC Energy Statistics
2. Overview of the APEC Energy Situation
3. Member Tables

The statistics cover 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; 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 an energy balance. Preparations of social-economic data are 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 annual tables and quarterly tables by the member economies. The annual tables contain Energy Balance Tables for 2003 and 2002, Original Tables of Energy Demand and Supply, Final Energy Demand by Disaggregated Sectors and Energy Price for 2003. 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 for 1980-2003 historically except Russia and Viet Nam due to data availability. The quarterly tables contain only original data of energy demand and supply. The objective is to report the most recently updated data.

APEC Energy Statistics 2003 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-economic data collected by EDMC (The Energy Data and Modelling Center), which is the Coordinating Agency (here in after refer to C.A.) for this APEC activity. The energy-balance tables, which give a detailed description of all energies, 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

Each item found in the Energy Statistics is based on data submitted by the APEC member economies using a specified format (APEC Energy Data Reporting Format). To facilitate data input, the format is based on the ASEAN format that AEEMTRC used to collect energy data from ASEAN countries. After release of the initial test version in 1991, followed by two revisions, standard data collection began in 1994 using the format seen in the Appendix. The ASEAN countries, however, continue to use the ASEAN format to avoid redundancy.

Using this format, the members report the following information:

- Supply and demand information for specific commercial energy (Refer to the Appendix)
- Power generating capacity by type
- Supply and demand information for non-commercial energy

The commercial energy supply and demand data by sector and by energy in the format as shown in Table 1-1, are reported by the members in terms of physical quantity, conversion factor and thermal quantity. There is no single standard unit for thermal quantity, and the data are

reported in the original units used by each member economy as follows:

- Joules
Australia; Canada; Chile; Hong Kong, China; Mexico; New Zealand and Papua New Guinea.
- Calories
Japan and Chinese Taipei
- Tons of Oil Equivalent (TOE)
Brunei Darussalam; Indonesia; the Republic of Korea; Malaysia; Peru; the Philippines; Singapore; Thailand and Viet Nam
- Tons of Coal Equivalent (TCE)
People’s Republic of China and Russian Federation
- British Thermal Unit (BTU)
United States of America

With regard to thermal quantity, the members reported either the gross calorific value or the net calorific value.

In principle, the power capacity for thermal, hydro, nuclear and other power are reported as at the end of the year.

In the questionnaire outlining primary energy supply, transformations and final energy consumption in member economies, spaces are provided for the amounts of non-commercial energy (i.e. bagasse and firewood) consumed. Except for Korea, Thailand and Peru, most members have left these spaces blank.

The format is prepared in Excel and is sent regularly to each member as a spreadsheet file. The members enter their data and return them to C.A. From the submission, C.A. compiles the statistical tables as shown in section 3, yielding the table of original data (after adjustment), energy balance table and other tables.

C.A. changed the format for collection from 1998 energy data as follows:

- A few energy items are added in the collection format for annual energy demand and supply data (Refer to Table 1-1).
- Sections for disaggregated energy demand data

(Table 1-2) and for energy price data (Table 1-3) were newly added.
 - Collection format for quarterly energy data was simplified.

C.A. changed the format for collection from 2000 energy data added Coal, Oil, Gas item breakdown of Thermal Power.

Table 1-1 Energy and Sector Name of the APEC Energy Data Reporting Format Table 1

Energy Name	Sector Name
Coal	Primary Energy Supply
Hard Coal	Indigenous Production
Steam Coal	Opening Stocks
Coking Coal	Closing Stocks
Subbituminous Coal	Stock Change
Anthracite	Imports
Lignite	Exports
Coal Products	International Marine Bunkers
Coke	Total Primary Energy Supply
Coke Oven Gas	Transformation Sector (Input)
Briquettes	Coal Transformation
Blast Furnace Gas	Refining
Others	Gas Processing
Crude Oil and NGL/Condensate	Power Generation (Public Utilities)
Crude Oil	Power Generation (Auto Producers)
NGL/Condensate	Transformation Sector (Output)
Petroleum Products	Coal Transformation
Refinery Gas	Gas Recovering
LPG	Refining
Naphtha	Gas Processing
Mogas	Power Generation (Public Utilities)
Jet Fuel	Power Generation (Auto Producers)
ATF/AVGAS	Transformation Sector (Loss and Own Use)
Kerosene	Final Energy Consumption Total
Diesel Oil	Agriculture
Fuel Oil	Residential & Commercial
Other Petroleum Products	Others
Gas	Industry
Natural Gas	Transport
LNG	Non-Energy Use
Town Gas	
Electricity	ELECTRICITY GENERATING CAPACITY TABLE
Thermal Power	Thermal Power
Coal	Coal
Oil	Oil
Gas	Gas
Hydro Power	Hydro Power
Nuclear Power	Nuclear Power
Geothermal	Geothermal Power
Wind	Others (Wind, Tide, Photovoltaic)
Tide	Others (Biomass, Municipal Waste)
Photovoltaic Power	
Other Power	Cogeneration
Heat	Coal
Geothermal Heat	Oil
Solar Heat	Gas
Others	Others (Biomass, Municipal Waste)

REFINING CAPACITY TABLE

Operating Rate
Crude Distillation Capacity
Vacuum Distillation Capacity
Catalytic Hydro cracking Capacity
Vacuum Gas Oil Hydrodesulfurizing Capacity
Residue Hydrodesulfurising Capacity
Catalytic Cracking Capacity
Catalytic Reforming Capacity

NON-COMMERCIAL ENERGY TABLE

Primary Energy Supply
Indigenous Production
Imports
Exports
Total
Transformation (Input)
Transformation (Output)
Final Energy Consumption
Agriculture
Residential Commercial
Industry
Transport
Total

Table 1-2 Energy and Sector Name of the APEC Energy Data Reporting Format Table 2

Energy Name	Sector Name
Coal	1. Industrial Sector
Hard Coal	1.1 Iron and Steel
Steam Coal	1.2 Chemical and Petrochemical
Subbituminous Coal	1.3 Non-ferrous Metals
Lignite	1.4 Non-metallic Mineral Products
Anthracite	1.5 Paper, Pulp and Printing
Coal Products	1.6 Other Industries
Coke	2. Transportation Sector
Coke Oven Gas	2.1 Air
Briquettes	2.2 Road
Blast Furnace Gas	2.3 Rail
Crude Oil and NGL/Condensate	2.4 Internal Navigation
Crude Oil	3. Residential and Commercial Sector
NGL/Condensate	3.1 Commerce and Public Service
Petroleum Products	3.2 Residential
Refinery Gas	
LPG	
Naphtha	
Mogas	
Jet Fuel	
ATF/AVGAS	
Kerosene	
Diesel Oil	
Fuel Oil	
Other Petroleum Products	
Gas	
Natural Gas	
LNG	
Town Gas	
Electricity	
Public Utilities	
Autoproducers	
Heat	
Geothermal Heat	
Solar Heat	
Others	

Table 1-3 Energy and Sector Name of the APEC Energy Data Reporting Format Table 3

Energy Name	Sector Name
Coal	1. Import CIF Price
Steam Coal	2. Wholesale Price
Coking Coal	3. Consumer Price
Crude Oil	
Petroleum Products	
LPG	
Naphtha	
Mogas	
Jet Fuel	
Kerosene	
Diesel Oil	
Fuel Oil	
Gas	
Natural Gas (LNG)	
Town Gas	
Electricity (Average)	
Industrial Users	
Commercial Users	
Residential users	

b. Collection Schedule

The schedule for the 2003/2004 standard run is shown below.

Table 1-4 Schedule for the 2003/2004 Standard Run

Energy Data	Format Distribution	Format Deadline
1 st Quarter, 2004	-	31 July 2004
2 nd Quarter, 2004	-	31 Oct. 2004
3 rd Quarter, 2004	-	31 Jan. 2005
4 th Quarter, 2004	-	30 Apr. 2005
2003 Annual	20 Sept. 2004	30 Nov. 2004

In principle, all twenty-one APEC members are expected to send one yearly and four quarterly data files to EDMC.

Except for Australia, yearly data submitted by member economies are for the calendar year. The data from Australia are for their fiscal year, July to June.

The purpose of the quarterly data is to report the most recently updated data.

c. Collection Status

20 member economies submitted 2003 annual energy demand-supply data to C.A. But some member economies were not able to submit disaggregated final

energy demand data and energy price data. Mexico did not submit annual data for 2003. CA downloaded Mexico energy balance tables from Mexico Website and fill the data in APEC reporting format.

The simplified format for collecting quarterly data has increased the response rate of members and improved the quality of the data. So far fourteen member economies already submitted all quarterly data for 2003 to C.A.

For Papua New Guinea, C.A. produced the original tables and energy balance tables for 1994-2003 using several energy data submitted by Papua New Guinea's government. The energy balance tables for 1980-1993 are based on the UN (United Nations) "Energy Statistics Yearbook".

d. Use of the Internet

The original data are collected using Excel format and exchanged via the Internet. Although in most cases the files could be attached to e-mail, C.A. had to rely FTP (File Transfer Protocol) for some members due to incompatibility in E-mail software. But from 1998/99 standard run, E-mail exchange is available on all member

economies except Papua New Guinea.

1.1.2 Standardization

As observed, the data submitted are not standardized in terms of heat conversion as well as in physical value. C.A. adjusts the figures to allow comparisons between members. The adjustments are shown below.

a. Conversion Factors for Fossil Energy

Between the two calorific values, namely gross and net calorific values, the APEC Standard adopted the net calorific value at the Third Experts Meeting (Singapore) to facilitate comparisons with international energy statistics such as IEA (International Energy Agency) and UN. Therefore, the data shown in gross calorific value used by some members must be converted to net calorific value. According to C.A. study, following members report their energy data in net calorific value: Canada, Korea, Malaysia, Mexico, Chinese Taipei and Thailand. The remaining fourteen members follow these procedures when converting gross into net calorific value.

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

The value New Zealand used under Specific Unit Value was in TOE (Tons of Oil Equivalent) from 1975 to 1996. After confirming with New Zealand that the value represents gross calorific value, it was converted into net calorific value. From 1997 New Zealand reports both gross calorific value and net calorific value and changed the unit to joules. C.A. used the gross calorific value and converted the data to net calorific value for making energy balance tables.

b. Conversion Factors for Primary Electricity

Table 1-5 shows the efficiency of primary electricity, i.e. power generated by processes which excludes fossil fuel, such as hydro, nuclear, geothermal and other power generation. To allow comparisons of primary energy supplies, in light of differences in conversion coefficients,

standardization was required. APEC adopted the following conversion coefficients for compatibility with IEA and UN statistics.

Table 1-5 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 by the above adjustments.

1.1.3 Secondary Data

Using the original data submitted by each member, C.A. prepares the following tables through the standardization process described in 1.1.2.

- (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.

APEC Energy Statistics contain the above six tables, together with a table of original data after standardization as described in 1.1.2. Tables (2) through (6) are collectively referred to as "other tables", and are compiled from data obtained from the table of original data after adjustment and the energy balance table. The five tables from (2) through (6) allow comparisons among member economies.

a. Energy Balance

The energy balance table is, in principle, the same as that of the IEA, but with some adjustment (see 1.1.2). The different value could be accounted for by 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.

Table 1-6 Heat Efficiency for Primary Electricity of each Member Economy (unit: %)

Economy	Hydro	Nuclear	Geothermal	Other ^(*1)
Australia	100	-	-	100 ^(*1)
Brunei Darussalam	-	-	-	-
Canada	100	106	-	-
Chile	100	-	-	-
People's Republic of China	100	100	-	-
Hong Kong, China	-	-	-	-
Indonesia	100	-	100	-
Japan	38.1	38.1	38.1	38.1 ^(*2)
Republic of Korea	100	33.0	-	-
Malaysia	100	-	-	-
Mexico	100	33.3	10	100 ^(*3)
New Zealand	100	-	10	-
Papua New Guinea	100	-	-	100 ^(*3)
Peru	80.0	-	-	-
Philippines	100	-	100	-
Russian Federation	35.8	35.8	35.8	-
Singapore	-	-	-	-
Chinese Taipei	100	33.0	-	-
Thailand	38.5	-	9	-
United States of America	33.0	31.8	16.3	33.0 ^(*4)
Viet Nam	27.1	-	-	-

Note 1)

“-” means the item in the report was left blank, due possibly to irrelevance of the said facility to the member.

Note 2)

*1: Photovoltaic Power

*2: Power from garbage incineration, black liquor recovery, furnace ash, and solar energy.

*3, *4: Wind or solar power

- 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 major difference between the two formats is that in the APEC energy balance table, “Industry” and “Transport” are treated as one item.

The APEC energy balance table consists of two tables, quoted in calories and in joules.

b. 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 members.

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 (calories and joules), 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 (calories and joules), 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.

1.2 Notes of Member Economies

General Notes

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

Australia

In the statistics, non-commercial energy data are shown independently and not incorporated into the energy balance table. For Australia, where non-commercial energy such as bagasse and sugarcane are generally treated as commercial energy, it is shown under Other Commercial Energy.

Indonesia

Indonesia reported thermal power output in the space that should show fuel consumption for thermal power generation from 1980 to 1994. C.A. estimates Indonesian fuel consumption as follows:

Based on the thermal power generation efficiency from 1980 found in the ASEAN Energy Review

(prepared by AEEMTRC), C.A. estimates average power generation efficiency to date (approx. 30%). Using this value together with the power output and the heat conversion rate for various fuels the following estimate is obtained:

$$F_j = (PG_j \times 860) \div EF \div CF_j$$

F_j : amount of fossil fuel j consumed for power generation (kL, kg, cf)

PG_j : amount of power output from fossil fuel j (kWh)

860: heat conversion rate of electricity (kcal/kWh)

EF : average power output efficiency (30%)

CF_j : heat conversion value of fossil fuel j (kcal/kL, kg, cf)

The Indonesian government has approved this process.

From 1995 Indonesia reported all fuel consumption for thermal power include public utility and private utility.

Power generation by captive power is included in the total electricity generation starting after 1995 and C.A. estimates the generation figures after 2001 based on other sources.

Japan

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

New Zealand

New Zealand reported figures in TOE (Tons of Oil Equivalent) until 1997, which shows gross calorific value, in the space for specific unit value, and uses Joules as the unit of calorific value. Although this poses no problem in compilation, the reader cannot determine the physical quantity of each energy source. To solve this problem, the heat conversion coefficient for each energy source is shown on the APEC Energy Database web page (<http://www.ieej.or.jp/egeda/>). The government of New Zealand provided the information.

Papua New Guinea

CA estimated energy balance tables from 2000 to 2003 for Papua New Guinea.

Singapore

Singapore cannot submit the data of natural gas imports and the data of crude oil into refinery sector and the data of petroleum products in refinery output and public utilities. Furthermore there are no data in final energy consumption sectors.

CA estimated energy balance tables for Singapore from 1980 to 2003.

3 issues are in Singapore's data.

- Data in the Final Energy Consumption Sector are incomplete.

- Petroleum Refinery input (Crude Oil, etc.) and output (Petroleum Products) are not submitted.

- In some items, the data contain errors.

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 other sources, data from Energy Market Authority in Singapore, and the social and economic indicators (ex: GDP etc.).

Thailand

As will be noted, Thailand uses net calorific value for conversion into toe (Tons of Oil Equivalent) as follows;

$$1 \text{ toe} = 10.093 \text{ Gcal} = 1.0093 \times 10^7 \text{ kcal}$$

One TOE normally equals 1×10^7 kcal, which means that Thailand's calorific value indicates is slightly lower than the normal figure.

C.A. has converted Thailand's calorific value for 1980-2002 according the definition of APEC Energy Statistics as below:

$$1 \text{ toe} = 10^7 \text{ kcal}$$

Regarding electricity, C.A. converts the value using;

$$1 \text{ kWh} = 860 \text{ kcal} = 0.000086 \text{ TOE.}$$

United States of America

For 2003, United States submitted the energy data in IEA format.

Because of differences in definition of IEA and APEC, some of the data for 2003 are quietly deferent to the data from 1980 to 2002.

APEC data definition is different from IEA definition especially in the Coal Transformation flow. In this regard, CA adjusted the Coal Transformation data to fit the APEC definition to ensure consistency of the data series.

Others

- The member economies in the ASEAN place the transformation of natural gas to LNG under "Gas Processing" in the sector on transformation. However, three member economies, Japan, Korea and Chinese Taipei, use this item to show the input and output for town gas production. Thus, for ASEAN countries, natural gas can be understood as input and LNG as output.

- In case of the United States of America, power generation of auto producers has appeared from 1991.

1.3 Social-Economic Data

At the moment, the social-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 was 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”.

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.

1.4 APEC Energy Database

C.A. has established the APEC Energy Database, which contains all data on APEC Energy Statistics. The address of APEC Energy Database is:

<http://www.icej.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:

Hard coal, anthracite and lignite
Coke, coke oven gas, blast furnace gas, briquette and other coal products

b. Oil:

Crude oil, NGL, and other refinery intakes
MOGAS, naphtha, diesel oil, jet fuel (includes AVGAS), kerosene, fuel oil, LPG and other petroleum products

c. Gas:

Natural gas, LNG and town gas

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:

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

b. Southeast Asia

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

c. Oceania:

Australia, New Zealand and Papua New Guinea

d. North America:

Canada and United States of America

e. Latin America:

Chile, Mexico and Peru

At this stage, Russia and Viet Nam are not included in the above categories, due primarily to the unavailability of historic time series data. However, data for 2003 are

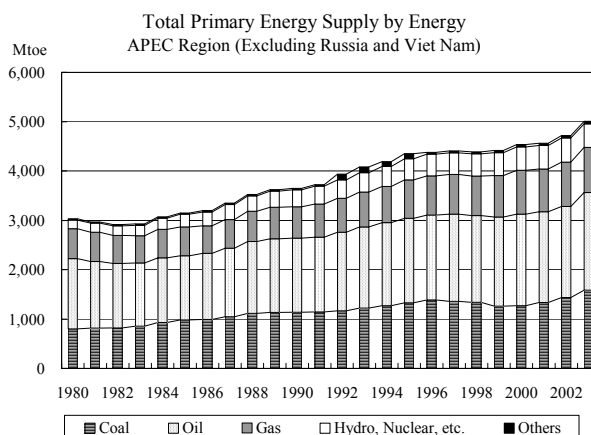
available for these two economies.

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 2003 of 5,006 Mtoe was 6.1% up from the 2002 level of 4,719 Mtoe, a rebound after the sixth year of a financial and economic crisis in Asia. In the period from 1980 to 2003, primary energy supply averaged 2.2% growth per annum, in contrast with 3.3% growth in real GDP over the same period. As a result, elasticity of demand was calculated at 0.67 for this period.

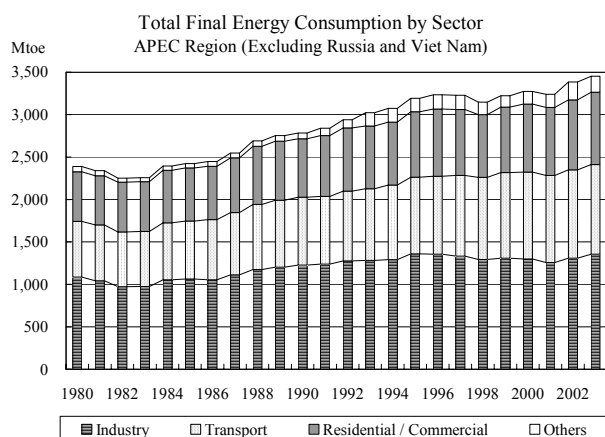


For the period 1980 to 2003, coal supply rose by an average of 3.0% per annum to reach 1,586 Mtoe in 2003. Oil supply rose by an average of 1.4% per annum to reach 1,981 Mtoe in 2003. Gas supply increased 1.8% per annum to reach 912 Mtoe. The supply of hydro, nuclear, etc. grew by 4.5% per annum to reach 475 Mtoe. The category of “Other” grew 3.2% per annum, the total was small as 52 Mtoe and the share was only 1.0% in 2003.

2.2.2 Final Energy Consumption

The level of final energy consumption in 2003 of 3,453 Mtoe was 2.0% up from the 2002 level of 3,384 Mtoe, grew 1.6% per annum from 2,388 Mtoe in 1980.

This growth rate for 23 years was lower than that of primary energy supply. It indicates that net energy consumption growth in the transformation sector surpassed the final energy consumption sector.



The residential/commercial sector grew by 3.6%, from 823 Mtoe in 2002 to 853 Mtoe in 2003. The transport sector grew by 1.4% from 1,041 Mtoe in 2002 to 1,056 Mtoe in 2003. Consumption in the industrial sector grew slowly (1.0% per annum from 1980 to 2003) and grew 3.6% from 2002 to 2003, the total of 1,356 Mtoe was the largest for all sectors in 2003. The industry sector share of the total was 39.3%, the transportation sector share 30.6%, and the residential/commercial sector share 24.7%.

By energy source, oil consumption grew by 1.2% from 1,678 Mtoe in 2002 to 1,697 Mtoe in 2003, averaging 1.5% per annum from 1,212 Mtoe in 1980.

Electricity consumption rose by 5.4% from 637 Mtoe in 2002 to 672 Mtoe in 2003. Gas consumption increased by 0.3% from 566 Mtoe in 2002 to 568 Mtoe in 2003. Coal consumption grew by 2.2% from 433 Mtoe in 2002 to 443 Mtoe in 2003.

2.2.3 Energy Balance Table

This section presents the 2003 aggregate energy balance table for the APEC region. Note that the table includes data for 19 member economies. The export/import: row does not show the volume of trade between APEC and non-APEC regions.

Some of the salient features from the table are:

- 70% 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.

APEC Region (Excluding Russia and Viet Nam) 2003													Unit: Mtoe	
	1 Coal	2 Coal Products	3 Crude Oil, NGL and Condensate	4 Petroleum Products	5 Gas	6 Town Gas	7 Hydro	8 Nuclear	9 Geothermal, Solar, etc.	10 Others	11 Electricity	12 Heat	13 Total	
1 Indigenous Production	1,609	-	932	59	857	-	98	342	35	53	-	-	3,985	
2 Import	240	2	1,226	321	226	-	-	-	-	-	5	-	2,019	
3 Export	-266	-11	-273	-220	-167	-	-	-	-	-2	-5	-	-943	
4 International Marine Bunkers	-	-	-	-56	-	-	-	-	-	-	-	-	-56	
5 Stock Change	12	-0	-7	-1	-4	-	-	-	-	-0	-	-	0	
6 Total Primary Energy Supply	1,595	-9	1,878	103	912	-	98	342	35	52	-0	-	5,006	
7 Public Electricity	-1,093	-6	-7	-96	-253	-	-94	-342	-33	-11	748	44	-1,143	
8 Autoproducers of Electricity	-17	-3	-	-15	-22	-0	-4	-0	-0	-8	38	1	-29	
9 Gas Processing	-6	-0	-3	14	-67	54	-	-	-	-	-0	-	-8	
10 Petroleum Refineries	-	-	-1,847	1,831	-2	-	-	-	-	-	-0	-	-18	
11 Coal Transformation	-196	187	-	-1	-0	-	-	-	-	-	-0	-	-10	
12 Loss & Own Use	-36	-5	-9	-126	-57	-2	-	-	-0	-0	-115	-9	-360	
13 Discrepancy	39	-7	-8	-17	7	-1	-	-	0	2	1	-0	15	
14 Total Final Energy Consumption	285	157	4	1,693	518	50	-	-	2	34	672	36	3,453	
15 Industry Sector	220	142	1	393	244	22	-	-	0	19	289	25	1,356	
16 Transport Sector	5	0	0	1,023	20	0	-	-	-	-	7	0	1,056	
17 Other Sector	55	9	0	237	235	28	-	-	2	14	368	11	959	
17.1 Agriculture	8	1	-	53	1	0	-	-	0	0	3	0	67	
17.2 Residential & Commercial	42	8	0	163	230	28	-	-	2	13	356	10	853	
17.3 Other	4	0	0	22	4	-	-	-	-	-	9	1	39	
18 Non-energy	6	6	3	36	18	-	-	-	-	2	-	-	69	

- Recovery of heat created during power generation (co-generation) accounts for 1.0% of final energy consumption.
- Oil accounted for approximately half of total final energy consumption, followed in order, by electricity, gas, and coal.

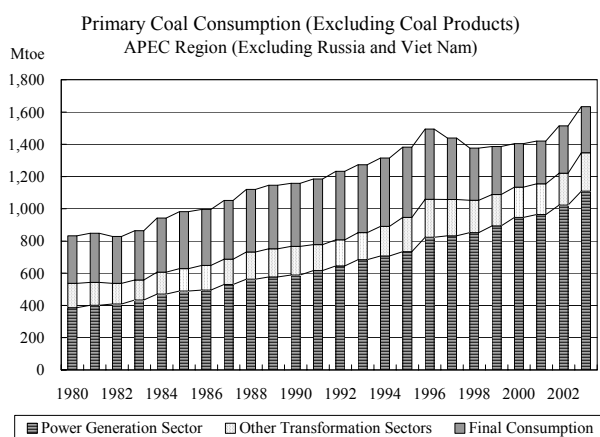
2.3 Analysis of Energy Supply and Demand by Energy Sources

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 10.3% in 2003 over the year before (from 1,447 Mtoe in 2002 to 1,595 Mtoe in 2003). The coal share in the total primary energy supply increased until 1985, and remained around 30% thereafter.

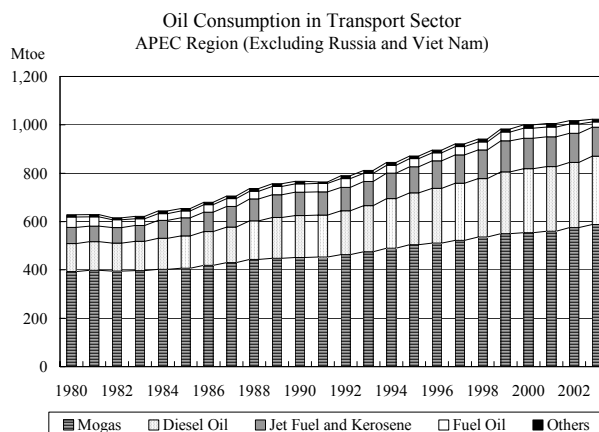
Most coal (excluding coal products) is used for electricity generation, accounting for 67.9% of the total supply in 2003.



2.3.2 Oil

Oil supply increased by 7.6% from 1,842 Mtoe in 2002 to 1,981 Mtoe in 2003. Oil represented 39.6% of total primary energy supply in 2003.

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



2.3.3 Gas

The supply of gas increased by 1.3%, from 900 Mtoe in 2002 to 912 Mtoe in 2003. Natural gas represented 18.2% of total primary energy supply in 2003.

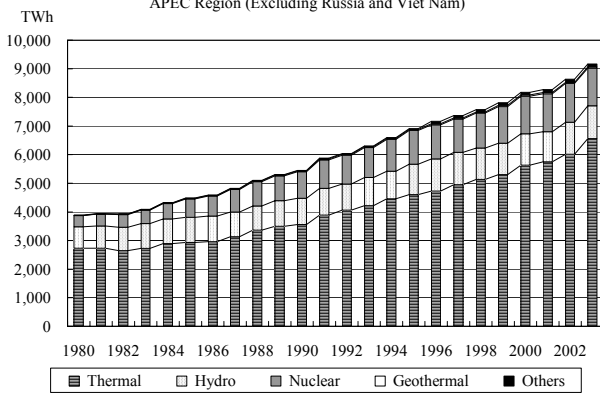
Most gas is consumed in the industrial and residential/commercial sectors. As of 2003, 30.2% of gas was used for electric power generation.

2.3.4 Electricity

The supply of hydro, nuclear, etc. decreased by 3.2%, from 491 Mtoe in 2002 to 475 Mtoe in 2003. From 1980 until 2003, the supply of hydro, nuclear, etc. grew 4.5% per annum.

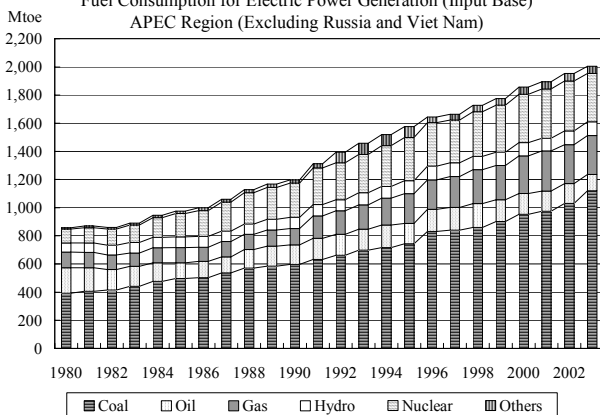
Power generation rose by 6.2% from 8,632 TWh in 2002 to 9,168 TWh in 2003. From 1980 until 2003, power generation grew 3.8% per annum (from 3,885 TWh). Thermal power generation grew 9.2%, from 6,010 TWh in 2002 to 6,561 TWh in 2003. As a result, the share of thermal power generation was 71.6% of the total in 2003. Nuclear power generation decreased by 2.6%, from 1,350 TWh in 2002 to 1,316 TWh in 2003. The hydropower generation rose by 1.3% from 1,127 TWh in 2002 to 1,142 TWh in 2003.

Electric Power Generation by Type (Output Base)
APEC Region (Excluding Russia and Viet Nam)



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.

Fuel Consumption for Electric Power Generation (Input Base)
APEC Region (Excluding Russia and Viet Nam)



2.4 Analysis of Energy Supply and Demand by Region

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

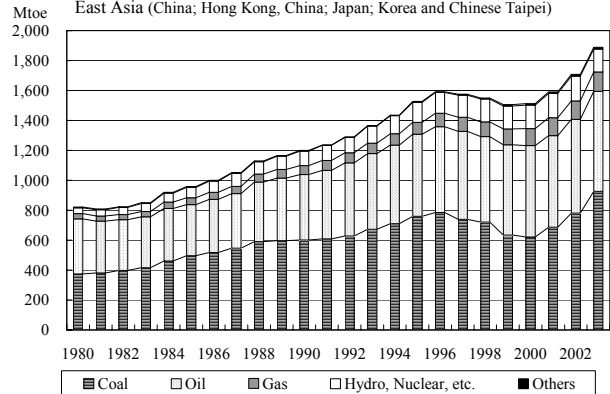
2.4.1 East Asia

Primary energy supply in East Asia rose by 10.6% to 1,888 Mtoe in 2003. Over the period 1980 to 2003, primary energy supply increased 3.7% per annum (from 821 Mtoe).

Coal and oil constitute the main energy sources in

East Asia, accounting for 49.0% and 35.5% of total energy supply, respectively, in 2003.

Total Primary Energy Supply by Energy
East Asia (China; Hong Kong, China; Japan; Korea and Chinese Taipei)

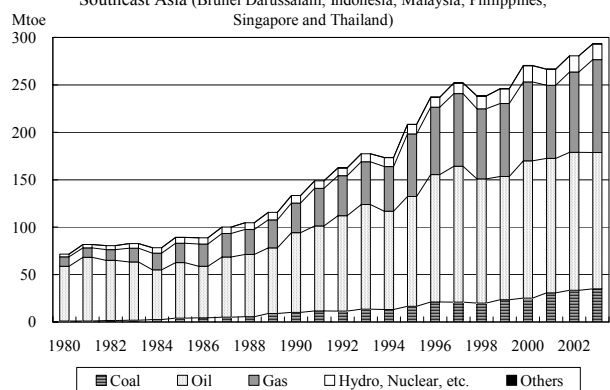


In terms of final energy consumption by sector, the industrial sector has the highest consumption, followed in order by the residential/commercial sector and the transportation sector. 52.9% of final energy was consumed in the industrial sector.

2.4.2 Southeast Asia

Primary energy supply in Southeast Asia rose by 4.5% to 293 Mtoe in 2003 and from 1980 to 2003 it increased 6.3% per annum; the highest rate of growth of the five regional groups, and the share of the total APEC region was 5.9% comparing with 2.4% in 1980.

Total Primary Energy Supply by Energy
Southeast Asia (Brunei Darussalam; Indonesia; Malaysia; Philippines; Singapore and Thailand)



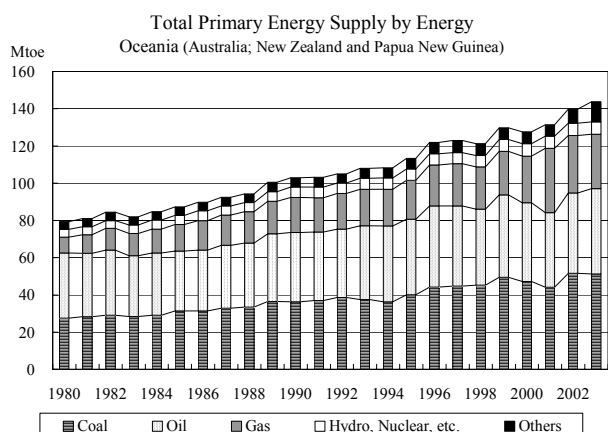
Although Southeast Asia relies heavily on oil, use of coal and gas has been increasing in recent years. Therefore the share of oil has dropped to 49.0% from 81.0% in 1980.

The transportation sector consumes the largest amount of energy, followed in order by the industrial 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 2.9% to 144 Mtoe in 2003. From 1980 to 2003, the average growth rate per annum was 2.6% (from 79 Mtoe). The Oceania share of total APEC supply was only 2.9% in 2003.

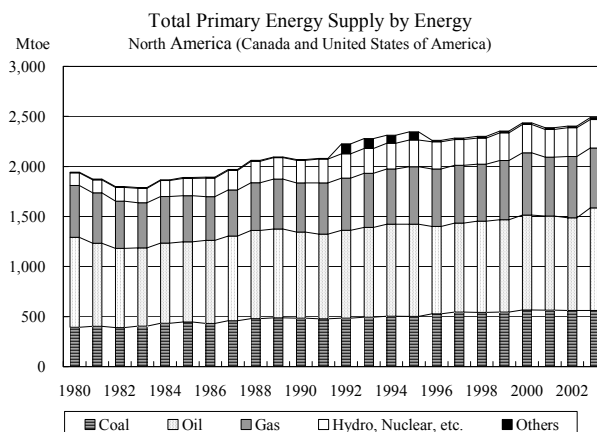


Coal and oil are the major energy sources in Oceania, accounting for 67.6% of total primary energy supply. Oil supply increased by 6.3% though gas supply decreased by 5.0% in 2003.

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 increased by 3.5% to 2,488 Mtoe in 2003, or 1.1% per annum from 1,943 Mtoe in 1980. The area accounted for the greatest share of energy supply in the APEC region (e.g. 49.8% in 2003). Discontinuity between 1992 and 1995 is due to data availability of autoproducers of electricity in the United States of America.

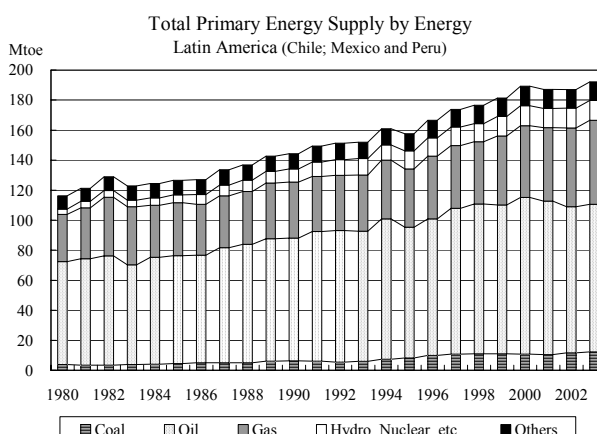


The main energy source in North America is oil, although supply has remained more or less stable over the past 23 years. Supply of coal and gas has increased modestly over the same period.

In terms of final energy consumption by sector, energy consumption by the industrial and transportation sectors is comparable, 31.1% and 38.8% of the total, respectively. The residential/commercial sector consumed 29.1% of the total.

2.4.5 Latin America

Primary energy supply in Latin America grew by 2.7% to 192 Mtoe in 2003, increased 2.2% per annum from 116 Mtoe in 1980. Imports of natural gas via pipeline to Chile began in 1999, and this boosted overall growth.



Oil is the major energy source in Latin America and represented 51.2% of the total, followed by gas with a share of 29.1% in 2003.

In terms of final energy consumption by sector, the

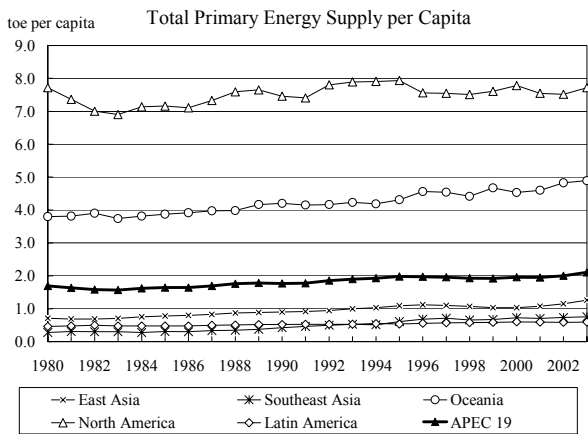
transport and industrial sectors consumed 39.8% and 29.3% of the total, respectively, in 2003.

2.5 Other Analyses

This section analyses 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 (7.72 toe per capita) in the APEC region in 2003, followed in order by Oceania (4.89 toe), East Asia (1.26 toe), Southeast Asia (0.76 toe) and Latin America (0.60 toe). The average for APEC excluding Russia and Viet Nam came to 2.11 toe per capita in 2003.



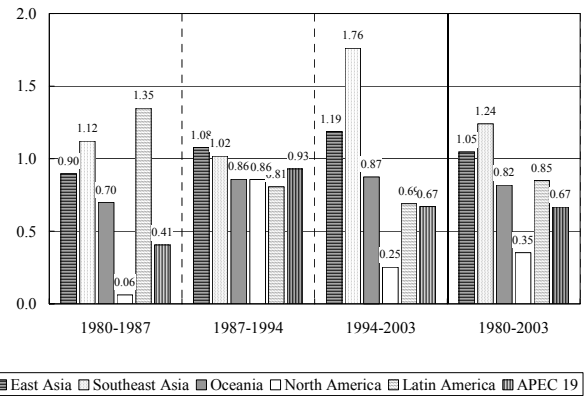
From 1980 until 2003, the APEC average growth rate in energy per capita was 0.9% per annum (from 1.70 toe per capita). While in Southeast Asia, the growth rate was 4.5% per annum for the last 23 years. North America showed almost no growth (0.0%) over this period. Although East Asia experienced strong growth until the mid-1990's, there was a recorded drop for three consecutive years from 1997 to 1999.

2.5.2 Elasticity of Primary Energy Supply against Real GDP

From 1980 until 2003, the elasticity of supply has exceeded 1.0 in Southeast Asia (1.24) and East Asia (1.05) over the last 23 years. The converse is true for Oceania (0.82), North America (0.35, the lowest) and

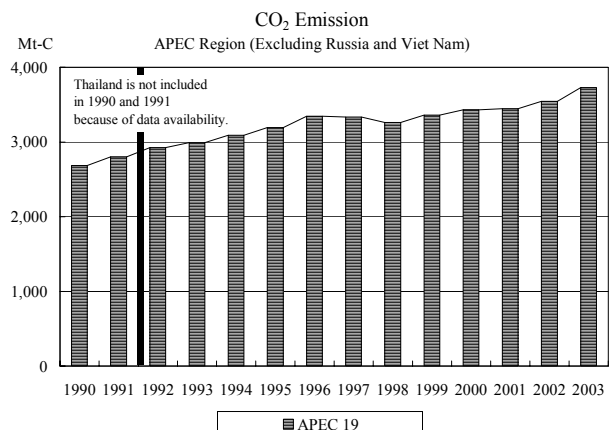
Latin America (0.85). Elasticity for the APEC region as a whole was 0.67. This means that when the GDP of the APEC region increased by one unit, energy supply increased 0.67 units.

Total Primary Energy Supply Elasticity for Real GDP



2.5.3 CO₂ Emissions from Fuel Combustion

The data of CO₂ emission data for 2003 were collected from 7 member economies, which are Australia; Canada; Hong Kong, China; Japan; New Zealand; Chinese Taipei; Thailand and United States. For the other member economies, the Coordinating Agency (The Energy Data and Modelling Center) estimated their CO₂ emissions data. Based on both of the data above mentioned, CO₂ emissions from fuel combustion grew by 5.2% from 3,544 Mt-C in 2002 to 3,729 Mt-C in 2003, or 2.2% per annum from 2,923 Mt-C in 1992. As a result, CO₂ emissions per total primary energy supply, per real GDP and per population became 0.75 t-C/toe, 181.1 t-C/US Million-dollar (at 1995 price) and 1.57 t-C/capita in 2003 respectively.



3 Member Tables

3.1 Australia

Energy Balance Table of Australia in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	179,753	-	27,974	3,752	-	-	-	-	-
2 Import	-	-	23,851	5,024	1,288	-	406	3	1,420
3 Export	-128,350	-152	-17,593	-4,484	-812	-	-575	-	-908
4 International Marine Bunkers	-	-	-	-928	-	-	-	-	-163
5 Stock Changes	-1,790	-68	-195	265	14	16	73	-31	276
6 Total Primary Energy Supply	49,613	-220	34,037	3,629	490	16	-97	-28	624
7 Public Electricity	-44,692	-523	-	-395	-	-	-	-	-273
8 Autoproducers of Electricity	-1	-20	-	-80	-	-	-	-44	-30
9 Gas Processing	-	-	-	-27	-	-	-	-	-
10 Petroleum Refineries	-	-	-37,795	37,747	13,911	361	4,607	197	11,826
11 Coal Transformation	-3,096	1,625	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-2,808	-321	-345	-326	-46	-
13 Discrepancy	128	-21	3,777	-268	531	0	-569	1	1,309
14 Total Final Energy Consumption	1,952	840	19	37,798	14,611	33	3,615	79	13,457
15 Industry Sector	1,879	788	-	3,599	-	33	-	2	328
16 Transport Sector	64	-	-	27,781	14,506	-	3,615	-	8,045
17 Other Sector	9	53	-	5,677	105	-	-	77	5,084
18 Agriculture	-	-	-	2,098	105	-	-	1	1,960
19 Residential & Commercial	9	53	-	852	-	-	-	74	430
20 Other	-	-	-	2,727	-	-	-	2	2,694
21 Non-energy	-	-	-	742	-	-	-	-	-

Energy Balance Table of Australia in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	178,868	-	30,401	2,768	-	-	-	-	-
2 Import	-	-	23,289	4,226	1,121	-	184	8	1,121
3 Export	-124,706	-75	-20,158	-4,730	-896	-	-454	-2	-840
4 International Marine Bunkers	-	-	-	-776	-	-	-	-	-
5 Stock Changes	-3,746	-136	386	277	17	-6	-27	3	9
6 Total Primary Energy Supply	50,416	-211	33,918	1,765	242	-6	-297	9	290
7 Public Electricity	-44,859	-510	-	-316	-	-	-	-	-201
8 Autoproducers of Electricity	0	-21	-565	-306	-	-	-	-	-
9 Gas Processing	-	-	-	-23	-	-	-	-	-
10 Petroleum Refineries	-	-	-38,846	36,566	13,955	374	4,493	193	11,481
11 Coal Transformation	-2,961	1,857	-	-23	-	-	-	-	-
12 Loss & Own Use	-	-78	-	-1,756	-	-	-	-	-
13 Discrepancy	-11	1,489	5,494	-164	279	-340	-289	-112	-57
14 Total Final Energy Consumption	2,584	2,526	1	35,743	14,475	28	3,906	90	11,514
15 Industry Sector	2,511	2,471	1	6,453	713	28	168	18	2,290
16 Transport Sector	64	-	-	26,040	13,665	-	3,738	-	7,222
17 Other Sector	9	55	-	2,495	97	-	-	72	2,002
18 Agriculture	-	-	-	1,716	97	-	-	-	1,600
19 Residential & Commercial	9	55	-	779	-	-	-	72	402
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	756	-	-	-	-	-

Energy Balance Table of Australia in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	3,752	-	-	34,514	-	1,414	-	148	9,685	-	-	257,241
564	171	-	1,173	-	-	-	-	-	-	-	-	28,875
-88	-1,940	-	-161	-9,285	-	-	-	-	-	-	-	-159,865
-765	-	-	-	-	-	-	-	-	-	-	-	-928
-93	46	-	-35	-	-	-	-	-	-	-	-	-1,788
-382	2,029	-	977	25,229	-	1,414	-	148	9,685	-	-	123,536
-122	-	-	-	-4,708	-	-1,390	-	-60	-4,968	18,527	-	-38,210
-4	-2	-	-	-1,682	-	-24	-	-	-692	1,165	-	-1,334
-	-27	-	-	-479	204	-	-	-	-	-2	-	-304
1,363	1,058	1,995	2,429	-542	-	-	-	-	-	-163	-	-753
-	-	-	-	-148	-	-	-	-	-	-437	-	-2,056
-	-	-1,711	-59	-224	-	-	-	-	-	-1,304	-	-4,336
-778	0	-105	-657	148	-	0	-	-	0	-467	-	3,297
77	3,058	179	2,690	17,594	204	-	-	88	4,025	17,319	-	79,840
35	1,074	179	1,948	7,046	156	-	-	-	2,456	8,264	-	24,187
41	1,574	-	-	375	-	-	-	-	-	162	-	28,382
1	410	-	-	7,758	48	-	-	88	1,569	8,893	-	24,095
-	32	-	-	2	-	-	-	-	-	143	-	2,243
-	348	-	-	4,149	48	-	-	88	1,569	8,750	-	15,518
1	30	-	-	3,607	-	-	-	-	-	-	-	6,334
-	-	-	742	2,415	-	-	-	-	-	-	-	3,157

Energy Balance Table of Australia in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	2,768	-	-	34,450	-	1,385	-	127	6,267	-	-	254,266
511	329	-	953	-	-	-	-	-	-	-	-	27,515
-267	-1,951	-	-320	-8,887	-	-	-	-	-	-	-	-158,557
-776	-	-	-	-	-	-	-	-	-	-	-	-776
64	57	-	161	-	-	-	-	-	-	-	-	-3,219
-468	1,203	-	793	25,563	-	1,385	-	127	6,267	-	-	119,230
-115	-	-	-	-5,245	-	-1,385	-	-31	-2,603	18,345	-	-36,604
-306	-	-	-	-1,182	-	-25	-	-	-2,394	791	-	-3,704
-	-23	-	-	-279	64	-	-	-	-	-	-	-238
1,656	1,066	1,112	2,235	-344	-	-	-	-	-	-157	-	-2,781
-	-	-	-23	-129	-	-	-	-	-	-9	-	-1,264
-66	-	-1,014	-676	-247	-	-	-	-	-	-2,436	-	-4,516
43	268	3	41	-3,123	10	25	-	9	3,798	-195	-	7,332
744	2,514	101	2,371	15,013	75	-	-	105	5,068	16,339	-	77,454
741	452	101	1,940	8,690	54	-	-	-	3,499	7,445	-	31,124
-	1,415	-	-	294	-	-	-	-	-	187	-	26,585
3	321	-	-	4,632	21	-	-	105	1,569	8,707	-	17,592
-	19	-	-	2	-	-	-	-	-	142	-	1,861
3	302	-	-	3,233	21	-	-	105	1,569	8,564	-	14,334
-	-	-	-	1,397	-	-	-	-	-	-	-	1,397
-	325	-	430	1,397	-	-	-	-	-	-	-	2,153

Major Energy Indicators of Australia

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	69,279	72,282	74,566	76,299	78,988	81,111	86,111	87,938	87,841
Indigenous Production	86,084	111,094	125,763	136,076	145,576	138,579	145,439	158,191	163,650
Import	13,902	9,719	8,843	7,828	10,240	11,239	14,061	14,183	14,183
Export	-32,208	-48,568	-62,794	-66,297	-70,176	-75,801	-72,746	-79,487	-88,490
Final Energy Consumption	51,533	51,240	53,480	54,698	55,978	58,085	60,499	63,237	63,346
Industry	23,239	21,125	22,506	22,941	23,438	24,525	25,711	27,574	27,679
Transport	17,547	18,813	19,465	19,950	20,315	21,208	22,011	22,160	21,954
Residential & Commercial	8,494	8,959	9,198	9,494	9,864	9,994	10,294	10,977	11,242
Agriculture	1,075	1,267	1,245	1,228	1,284	1,259	1,327	1,317	1,335
Coal, Coal Products									
Primary Energy Supply	26,403	27,879	30,318	30,126	31,748	32,414	35,312	35,148	35,915
Indigenous Production	51,868	71,318	81,066	89,563	98,932	91,565	100,432	106,298	110,731
Import	-	-	-	-	-	-	-	-	-
Export	-28,645	-43,463	-54,442	-58,222	-61,808	-66,576	-64,929	-67,658	-73,530
Transformation Sector	-19,165	-21,968	-24,037	-23,615	-25,650	-27,045	-28,803	-28,812	-29,970
Power Generation	-19,184	-21,812	-23,761	-23,624	-25,419	-27,017	-28,581	-28,904	-29,937
Final Energy Consumption	7,328	5,575	5,917	5,944	5,859	5,869	5,976	6,711	6,554
Industry	7,107	5,325	5,665	5,702	5,619	5,642	5,740	6,490	6,339
Transport	4	81	88	75	86	79	88	79	85
Residential & Commercial	217	168	163	158	154	148	147	141	130
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	29,632	29,234	27,150	27,932	28,297	29,297	30,349	30,926	31,371
Indigenous Production	19,906	22,522	25,990	26,641	26,448	26,250	23,721	26,861	26,827
Import	9,891	7,511	6,405	5,432	6,782	8,409	10,587	10,189	11,757
Export	-107	-887	-4,885	-4,241	-4,788	-5,418	-4,127	-5,827	-7,536
Transformation Sector	-29,788	-28,611	-28,759	-28,300	-27,987	-29,986	-30,533	-31,455	-32,252
Petroleum Refineries	-29,788	-28,611	-28,759	-28,300	-27,987	-29,986	-30,533	-31,455	-32,252
Petroleum Products									
Primary Energy Supply	805	-201	714	783	1,109	996	1,425	1,458	572
Import	4,012	2,208	2,438	2,396	3,458	2,830	3,474	3,994	2,426
Export	-3,456	-4,218	-3,467	-3,834	-3,580	-3,807	-3,689	-3,652	-3,448
Transformation Sector	27,171	26,143	26,539	26,182	25,986	28,143	28,451	29,166	29,872
Power Generation	-1,132	-1,036	-916	-797	-601	-482	-646	-880	-900
Petroleum Refineries	30,525	29,112	29,327	28,829	28,517	30,583	31,124	32,011	32,834
Final Energy Consumption	27,930	26,445	26,717	27,014	27,347	28,631	29,769	30,198	29,830
Industry	7,003	4,906	4,603	4,465	4,412	4,845	5,086	5,332	5,247
Transport	17,466	18,635	19,273	19,763	20,112	20,997	21,774	21,925	21,712
Residential & Commercial	1,327	712	691	648	638	616	615	632	631
Agriculture	956	1,125	1,093	1,071	1,119	1,083	1,151	1,114	1,121
Natural Gas, Town Gas									
Primary Energy Supply	7,794	10,533	11,249	12,268	12,648	13,123	13,495	14,788	14,096
Indigenous Production	7,794	10,533	11,249	12,268	12,648	13,123	13,495	17,139	18,072
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-2,350	-3,976
Transformation Sector	-1,947	-3,238	-2,963	-3,607	-3,462	-3,760	-3,821	-4,260	-3,419
Power Generation	-1,642	-2,672	-2,391	-2,894	-2,779	-3,010	-3,092	-3,471	-2,611
Final Energy Consumption	5,851	7,294	8,286	8,660	9,185	9,361	9,672	10,529	10,795
Industry	4,366	5,314	6,198	6,470	6,832	7,056	7,277	7,833	8,050
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	1,485	1,971	2,079	2,181	2,343	2,294	2,385	2,685	2,729
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	8,261	9,658	10,403	10,871	11,388	11,948	12,696	13,282	13,478
Thermal	7,076	8,552	9,115	9,539	10,137	10,661	11,404	12,002	12,093
Hydro	1,185	1,106	1,287	1,333	1,252	1,287	1,292	1,280	1,385
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	6,966	8,194	8,713	9,224	9,654	10,232	10,842	11,443	11,664
Industry	2,948	3,566	3,928	4,195	4,407	4,761	5,175	5,421	5,454
Transport	77	97	103	112	117	131	149	156	157
Residential & Commercial	3,821	4,389	4,531	4,760	4,964	5,165	5,341	5,662	5,839
Agriculture	119	142	152	157	165	176	177	204	215

Major Energy Indicators of Australia (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
89,135	91,706	92,039	96,871	104,401	104,763	103,027	110,701	107,748	111,463	119,230	123,536
170,684	174,067	174,475	188,389	192,177	201,813	212,493	211,562	228,189	238,892	254,266	257,241
15,258	19,521	20,430	21,048	23,744	25,235	22,601	24,753	27,488	25,646	27,515	28,875
-97,152	-101,883	-105,991	-109,521	-112,297	-119,599	-130,395	-130,420	-147,062	-152,338	-158,557	-159,865
63,954	65,866	67,921	70,911	72,586	74,462	75,806	76,549	79,470	76,155	77,454	79,840
27,660	28,443	29,407	30,793	30,974	31,758	32,461	32,643	33,465	31,690	31,124	24,187
22,412	23,129	23,742	24,763	25,794	26,282	26,759	27,163	28,733	27,530	26,585	28,382
11,456	11,710	12,010	12,478	12,941	13,279	13,650	13,820	14,186	14,083	14,334	15,518
1,333	1,402	1,448	1,471	1,477	1,531	1,564	1,602	1,629	1,567	1,861	2,243
37,565	36,244	35,300	38,920	43,140	43,704	44,088	48,335	46,173	43,247	50,205	49,393
116,728	119,006	119,249	128,619	131,661	139,944	151,274	153,460	159,928	162,195	178,868	179,753
-	-	-	-	-	-	-	-	0	-	-	-
-79,951	-83,457	-87,170	-88,147	-89,853	-94,700	-106,666	-110,311	-113,756	-118,947	-124,781	-128,502
-30,906	-31,047	-31,886	-29,804	-35,721	-35,854	-38,067	-39,089	-39,887	-39,307	-46,573	-46,707
-30,778	-30,916	-31,873	-29,962	-35,964	-35,813	-38,317	-39,330	-40,030	-39,000	-45,391	-45,236
6,637	6,279	6,407	6,647	6,499	6,579	6,371	6,312	6,043	5,318	5,110	2,793
6,432	6,088	6,187	6,468	6,330	6,408	6,220	6,172	5,873	5,146	4,982	2,666
91	94	85	91	90	98	96	94	101	105	64	64
114	98	99	89	78	73	55	46	70	67	64	62
-	-	-	-	-	-	-	-	-	-	-	-
32,226	34,444	34,215	34,379	36,865	37,292	34,916	36,935	38,476	34,601	33,918	34,037
26,285	25,776	24,299	26,167	25,402	26,065	27,126	23,983	31,499	30,870	30,401	27,974
13,463	17,054	17,822	18,123	20,814	21,749	19,982	21,652	23,652	21,976	23,289	23,851
-7,532	-8,477	-8,007	-9,609	-9,151	-10,411	-11,809	-8,999	-16,676	-18,245	-20,158	-17,593
-32,881	-33,918	-34,213	-34,795	-38,142	-37,601	-37,928	-38,025	-35,544	-36,141	-39,411	-37,795
-32,881	-33,918	-34,213	-34,795	-38,142	-37,601	-37,928	-38,025	-35,544	-36,141	-38,846	-37,795
-720	-48	876	396	341	-1,129	-1,132	331	-3,406	-1,880	1,765	3,629
1,795	2,466	2,608	2,924	2,930	3,486	2,619	3,102	3,835	3,670	4,226	5,024
-4,220	-4,002	-3,760	-3,508	-4,429	-5,858	-3,470	-2,632	-7,369	-7,222	-4,730	-4,484
30,758	31,958	33,632	33,918	34,616	35,759	35,187	35,431	36,351	34,623	34,142	34,437
-666	-622	-645	-727	-725	-560	-569	-477	-570	-531	-622	-475
33,519	34,734	36,395	36,951	37,550	38,389	37,927	38,024	39,001	37,116	36,566	37,747
30,201	31,411	32,650	33,697	34,626	35,212	35,234	35,730	37,709	35,837	35,743	37,798
5,200	5,645	6,036	5,987	5,890	5,837	5,644	5,815	6,064	5,678	6,453	3,599
22,134	22,843	23,449	24,470	25,493	25,959	26,243	26,608	28,123	26,918	26,040	27,781
659	566	676	657	651	658	648	628	685	639	779	852
1,115	1,175	1,215	1,247	1,250	1,301	1,327	1,358	1,381	1,316	1,716	2,098
14,564	15,187	15,533	16,863	17,484	17,892	18,407	18,392	19,872	29,117	25,563	25,229
20,013	21,133	22,587	25,120	26,348	26,522	26,857	26,871	29,134	37,041	34,450	34,514
-	-	-	-	-	-	-	-	-	-	-	-
-5,449	-5,946	-7,054	-8,257	-8,864	-8,630	-8,449	-8,479	-9,262	-7,924	-8,887	-9,285
-3,586	-3,750	-4,041	-4,368	-4,098	-4,094	-4,612	-5,022	-5,305	-5,153	-7,362	-7,579
-2,831	-2,931	-3,181	-3,597	-3,298	-3,256	-3,543	-4,100	-4,445	-4,364	-6,427	-6,390
11,094	11,587	11,904	12,754	13,042	13,472	14,136	14,067	14,835	13,966	15,088	17,798
8,250	8,569	8,843	9,503	9,604	9,991	10,333	10,242	10,885	10,315	8,744	7,202
26	30	36	32	33	42	232	265	306	298	294	375
2,818	2,988	3,024	3,220	3,395	3,438	3,570	3,560	3,643	3,353	3,254	4,197
-	-	-	-	-	-	0	0	0	0	2	2
13,769	14,069	14,372	14,908	15,262	15,791	16,844	17,464	17,426	18,085	19,136	19,692
12,456	12,612	12,926	13,513	13,883	14,313	15,460	16,020	16,000	16,642	17,751	18,277
1,314	1,457	1,445	1,396	1,379	1,478	1,384	1,444	1,426	1,443	1,385	1,414
-	-	-	-	-	-	-	-	-	-	-	-
11,833	12,163	12,463	12,858	13,214	13,662	14,488	14,951	15,536	15,985	16,339	17,319
5,555	5,717	5,866	6,000	6,054	6,218	6,746	6,972	7,330	7,524	7,445	8,264
162	162	171	171	177	183	188	195	203	209	187	162
5,897	6,057	6,192	6,464	6,756	7,030	7,318	7,541	7,755	8,003	8,564	8,750
219	227	233	223	227	231	237	243	247	251	142	143

Major Economic Indicators of Australia

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	14.69	15.54	15.76	16.02	16.26	16.53	16.81	17.07
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	235.72	262.37	273.20	279.68	294.67	306.53	317.97	317.66
Real Term (Billions of 1995 Price and 1995 PPP)	244.61	272.27	283.50	290.22	305.78	318.09	329.96	329.64
Nominal (Billions of Current USD)	166.13	197.80	173.59	182.02	217.50	274.92	304.42	310.59
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	16,044	16,879	17,337	17,460	18,118	18,541	18,910	18,615
Real Term (1995 Price and 1995 PPP)	16,649	17,516	17,991	18,118	18,801	19,240	19,623	19,316
Nominal (Current USD)	11,307	12,725	11,016	11,363	13,373	16,629	18,105	18,200
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	145.90	225.40	248.57	272.29	310.63	351.87	384.97	397.89
Household Final Consumption Expenditure, etc.	84.10	128.75	144.50	158.64	177.45	197.43	218.73	233.73
General Government Final Consumption Expenditure	27.12	44.79	49.76	54.29	58.28	63.18	68.60	74.66
Gross Fixed Capital Formation	39.18	56.90	65.14	70.60	80.44	94.56	99.88	90.27
Stock Change	0.45	2.29	0.87	-1.72	0.49	3.56	5.09	-1.37
Exports of Goods and Services	22.60	35.74	38.95	44.31	51.74	55.35	60.90	66.26
Imports of Goods and Services	25.53	40.79	47.20	49.03	54.08	62.30	68.77	66.95
Real GDP & its Components (Billions of 1995 AUD) *1								
Gross Domestic Product	351.23	390.95	407.07	416.73	439.08	456.74	473.78	473.33
Household Final Consumption Expenditure, etc.	216.23	239.63	250.55	253.29	261.70	273.30	286.66	288.63
General Government Final Consumption Expenditure	65.77	77.27	80.51	83.08	85.73	87.88	89.92	93.04
Gross Fixed Capital Formation	75.01	82.35	86.50	86.24	92.68	102.28	103.14	92.95
Stock Change	0.35	0.97	0.45	-0.88	0.43	1.92	2.65	-0.47
Exports of Goods and Services	39.80	50.92	52.84	58.45	63.73	64.74	67.93	75.86
Imports of Goods and Services	46.29	58.47	58.32	55.56	61.73	76.71	80.94	76.31
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.4	3.9	3.7	3.6	3.3	3.3	3.4	3.6
Industry	27.9	26.4	26.3	25.7	26.4	27.1	26.6	26.3
Services, etc.	59.2	60.1	60.8	61.8	61.4	60.5	60.9	61.2
Industrial Production Index (2000=100) *2	59.0	62.7	67.8	67.6	70.8	74.7	78.1	80.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.944	23.111	22.604	22.569	26.621	33.233	37.125	39.752
Imports, c.i.f.	22.399	25.919	25.889	26.104	29.318	36.095	44.933	41.985
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.371	-0.742	-0.968	-1.820	0.492	-0.677	-3.350	0.358
Current Account	-4.447	-8.860	-9.172	-9.807	-7.966	-11.749	-17.866	-15.950
Overall Balance	0.448	-1.294	-2.301	0.703	0.374	5.279	0.601	1.740
Foreign Exchange Rate (AUD/USD) *1	0.8782	1.1395	1.4319	1.4960	1.4282	1.2799	1.2646	1.2811
Purchasing Power Parity (AUD/International Dollar) *1	1.0408	1.1403	1.1714	1.2314	1.2922	1.3535	1.3697	1.3540
Price Indices								
GDP Deflator (2000=100) *3	41.5	57.7	61.1	65.3	70.7	77.0	81.3	84.1
Manufacturing Output Price Index (2000=100) *2	44.3	59.7	63.6	67.2	72.1	78.6	82.6	87.6
Consumer Price Index (2000=100) *2	36.8	51.4	54.9	59.9	64.9	69.6	74.9	80.4
Growth Rate (%) *3								
Real GDP	3.04	4.80	4.12	2.37	5.36	4.02	3.73	-0.10
Population	1.23	1.14	1.38	1.65	1.53	1.65	1.71	1.49
Price								
Manufacturing Output Price Index	14.0	5.4	6.6	5.6	7.3	9.1	5.1	6.0
Consumer Price Index	10.1	4.0	6.7	9.1	8.5	7.2	7.6	7.3

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

Major Economic Indicators of Australia (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
17.28	17.49	17.66	17.85	18.06	18.31	18.53	18.75	18.97	19.18	19.41	19.66	19.88
318.51	330.18	343.02	357.53	372.73	386.71	403.96	425.40	441.38	450.40	467.86	480.85	499.12
330.52	342.63	355.96	371.02	386.79	401.29	419.19	441.45	458.02	467.39	485.50	498.98	517.94
316.73	313.03	303.98	344.62	372.73	414.67	416.53	371.85	403.91	389.09	369.48	409.25	522.37
18,428	18,876	19,422	20,033	20,635	21,118	21,798	22,687	23,271	23,480	24,099	24,455	25,105
19,123	19,588	20,154	20,789	21,413	21,914	22,620	23,542	24,148	24,366	25,008	25,377	26,052
18,325	17,895	17,211	19,309	20,635	22,644	22,476	19,831	21,295	20,284	19,032	20,813	26,275
406.60	426.23	447.03	471.35	502.83	529.89	561.23	591.92	626.04	671.12	714.37	753.25	805.45
245.46	255.55	265.90	282.87	301.07	314.57	335.10	354.42	374.92	404.27	426.15	452.63	N.A.
79.55	83.04	84.44	87.74	92.96	96.17	101.33	108.27	113.31	120.39	127.41	134.31	N.A.
85.14	91.44	98.46	109.35	111.60	117.59	129.47	139.00	150.61	145.30	160.90	185.97	N.A.
-2.20	0.41	1.29	1.39	-0.81	-0.01	0.06	4.66	1.79	0.51	1.14	0.45	N.A.
70.08	76.90	83.02	87.65	99.10	105.16	113.74	112.03	126.22	153.85	153.34	148.41	N.A.
69.27	79.08	85.40	97.65	101.08	103.59	118.48	126.46	140.81	153.21	154.57	167.09	N.A.
474.60	491.98	511.12	532.74	555.39	576.22	601.92	633.87	657.68	671.12	697.13	716.49	743.71
294.49	299.95	306.87	321.91	334.03	343.63	360.08	377.48	392.81	404.27	417.43	434.10	N.A.
94.97	96.67	97.41	100.59	104.66	106.17	110.18	114.64	117.99	120.39	122.94	126.03	N.A.
88.36	94.01	100.04	111.10	113.41	122.40	134.37	143.60	155.22	145.30	160.05	183.17	N.A.
-1.08	0.37	0.51	1.33	-0.11	-0.35	-0.01	2.27	1.57	0.51	0.48	0.22	N.A.
82.70	88.22	96.79	101.50	111.89	123.61	128.18	130.79	143.33	153.85	152.22	151.32	N.A.
79.09	84.07	89.70	104.53	108.74	119.54	131.16	137.49	155.17	153.21	156.63	177.65	N.A.
3.4	3.5	3.4	2.7	3.2	3.4	3.2	3.4	3.4	3.4	3.4	2.4	N.A.
25.6	25.4	25.4	25.3	25.0	24.6	24.6	24.1	24.0	23.3	23.3	23.9	N.A.
62.2	62.5	62.3	62.7	62.6	63.1	62.9	63.2	63.5	64.5	64.3	64.7	N.A.
77.2	77.1	79.3	83.3	84.3	87.4	89.1	91.8	94.8	100.0	100.1	102.6	103.6
41.854	42.824	42.723	47.528	53.111	60.301	62.910	55.893	56.080	63.870	63.387	65.033	71.544
41.648	43.807	45.577	53.425	61.283	65.427	65.892	64.630	69.158	71.529	63.888	72.690	89.086
3.528	1.643	-0.029	-3.277	-4.223	-0.635	1.849	-5.332	-9.761	-4.841	1.736	-5.517	-15.335
-10.986	-11.124	-9.683	-17.145	-19.323	-15.810	-12.384	-18.050	-22.335	-15.412	-8.425	-17.280	-30.736
-0.324	-4.726	-0.042	-0.960	0.396	2.471	2.873	-2.040	6.705	-1.365	1.096	0.122	6.877
1.2838	1.3616	1.4706	1.3678	1.3490	1.2779	1.3474	1.5918	1.5500	1.7248	1.9334	1.8406	1.5419
1.3418	1.3341	1.3201	1.2969	1.3000	1.2994	1.3011	1.2902	1.2991	1.3363	1.3380	1.3520	1.3672
85.7	86.6	87.5	88.5	90.5	92.0	93.2	93.4	95.2	100.0	102.5	105.1	108.3
88.8	90.2	92.0	92.7	96.6	96.9	98.1	94.2	93.3	100.0	103.1	103.3	103.8
82.9	83.8	85.3	86.9	90.9	93.3	93.5	94.3	95.7	100.0	104.4	107.5	110.5
0.27	3.66	3.89	4.23	4.25	3.75	4.46	5.31	3.76	2.04	3.88	2.78	3.80
1.28	1.20	0.97	1.05	1.21	1.38	1.20	1.18	1.15	1.13	1.21	1.28	1.11
1.5	1.5	2.0	0.8	4.2	0.3	1.2	-4.0	-0.9	7.1	3.1	0.2	0.5
3.2	1.0	1.8	1.9	4.6	2.6	0.3	0.9	1.5	4.5	4.4	3.0	2.8

Original Table (Energy Demand and Supply) of Australia in 2003

Year:2003

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	342,732.00	kt	0.0220	PJ/kt	7,525.89	PJ
HARD COAL	274,855.00	kt	0.0251	PJ/kt	6,893.95	PJ
STEAM COAL	126,283.00	kt	0.0243	PJ/kt	3,071.20	PJ
COKING COAL	112,304.00	kt	0.0271	PJ/kt	3,040.63	PJ
SUBBITUMINOUS COAL	36,268.00	kt	0.0216	PJ/kt	782.12	PJ
LIGNITE	67,877.00	kt	0.0093	PJ/kt	631.93	PJ
CRUDE OIL AND NGL/CONDENSATE	26,628.00	kt	0.0440	PJ/kt	1,171.23	PJ
CRUDE OIL	20,620.00	kt	0.0440	PJ/kt	906.97	PJ
NGL/CONDENSATE	6,008.00	kt	0.0440	PJ/kt	264.26	PJ
LPG	3,347.00	kt	0.0469	PJ/kt	157.07	PJ
NATURAL GAS AND LNG	39,975.33	mcm	0.0361	PJ/mcm	1,445.05	PJ
NATURAL GAS	29,341.33	mcm	0.0360	PJ/mcm	1,056.29	PJ
LNG	10,634.00	mcm	0.0366	PJ/mcm	388.76	PJ
HYDRO POWER	16,448.00	GWh	0.0036	PJ/GWh	59.21	PJ
WIND	699.00	GWh	0.0036	PJ/GWh	2.52	PJ
SOLAR HEAT	3,700.00	TJ	0.0010	PJ/TJ	3.70	PJ
OTHERS	405,480.00	TJ	0.0010	PJ/TJ	405.48	PJ
TOTAL PRODUCTION					10,770.15	PJ
OPENING STOCKS						
TOTAL OPENING STOCKS						PJ
CLOSING STOCKS						
TOTAL CLOSING STOCKS						PJ
STOCK CHANGE						
COAL	-3,689.00	kt	0.0203	PJ/kt	-74.93	PJ
HARD COAL	-3,689.00	kt	0.0203	PJ/kt	-74.93	PJ
STEAM COAL	1,332.00	kt	0.0243	PJ/kt	32.39	PJ
COKING COAL	173.00	kt	0.0271	PJ/kt	4.68	PJ
SUBBITUMINOUS COAL	-5,194.00	kt	0.0216	PJ/kt	-112.01	PJ
COKE	-150.00	kt	0.0257	PJ/kt	-3.85	PJ
BRIQUETTES	48.00	kt	0.0210	PJ/kt	1.01	PJ
CRUDE OIL AND NGL/CONDENSATE	-186.00	kt	0.0440	PJ/kt	-8.18	PJ
CRUDE OIL	-81.00	kt	0.0440	PJ/kt	-3.56	PJ
NGL/CONDENSATE	-105.00	kt	0.0440	PJ/kt	-4.62	PJ
LPG	50.68	mcm	0.0380	PJ/mcm	1.93	PJ
NAPHTHA	15.00	kt	0.0457	PJ/kt	0.69	PJ
MOGAS	13.00	kt	0.0441	PJ/kt	0.57	PJ
JET FUEL	67.00	kt	0.0441	PJ/kt	2.95	PJ
AVGAS	2.00	kt	0.0445	PJ/kt	0.09	PJ
KEROSENE	-30.00	kt	0.0438	PJ/kt	-1.31	PJ
DIESEL OIL	304.09	mcm	0.0380	PJ/mcm	11.56	PJ
FUEL OIL	-102.47	mcm	0.0380	PJ/mcm	-3.89	PJ
OTHER PETROLEUM PRODUCTS	-35.00	kt	0.0418	PJ/kt	-1.46	PJ
TOTAL STOCK CHANGE					-74.84	PJ
IMPORTS						
CRUDE OIL AND NGL/CONDENSATE	22,703.00	kt	0.0440	PJ/kt	998.59	PJ
CRUDE OIL	20,282.00	kt	0.0440	PJ/kt	892.10	PJ
NGL/CONDENSATE	2,421.00	kt	0.0440	PJ/kt	106.49	PJ
LPG	153.00	kt	0.0469	PJ/kt	7.18	PJ
MOGAS	1,223.00	kt	0.0441	PJ/kt	53.91	PJ
JET FUEL	341.00	kt	0.0441	PJ/kt	15.03	PJ
AVGAS	44.00	kt	0.0445	PJ/kt	1.96	PJ
KEROSENE	3.00	kt	0.0438	PJ/kt	0.13	PJ
DIESEL OIL	1,372.00	kt	0.0433	PJ/kt	59.44	PJ
FUEL OIL	579.00	kt	0.0408	PJ/kt	23.60	PJ
OTHER PETROLEUM PRODUCTS	1,175.00	kt	0.0418	PJ/kt	49.12	PJ
TOTAL IMPORTS					1,208.95	PJ
EXPORTS						
COAL	208,749.00	kt	0.0257	PJ/kt	5,373.75	PJ
HARD COAL	208,749.00	kt	0.0257	PJ/kt	5,373.75	PJ
STEAM COAL	100,955.00	kt	0.0243	PJ/kt	2,455.23	PJ
COKING COAL	107,794.00	kt	0.0271	PJ/kt	2,918.52	PJ
COKE	262.00	kt	0.0244	PJ/kt	6.38	PJ
CRUDE OIL AND NGL/CONDENSATE	16,746.00	kt	0.0440	PJ/kt	736.57	PJ
CRUDE OIL	15,556.00	kt	0.0440	PJ/kt	684.23	PJ
NGL/CONDENSATE	1,190.00	kt	0.0440	PJ/kt	52.34	PJ
LPG	1,731.00	kt	0.0469	PJ/kt	81.24	PJ
MOGAS	771.00	kt	0.0441	PJ/kt	33.99	PJ
JET FUEL	511.00	kt	0.0441	PJ/kt	22.52	PJ
AVGAS	35.00	kt	0.0445	PJ/kt	1.56	PJ
DIESEL OIL	878.00	kt	0.0433	PJ/kt	38.03	PJ
FUEL OIL	90.00	kt	0.0408	PJ/kt	3.67	PJ
OTHER PETROLEUM PRODUCTS	203.00	kt	0.0333	PJ/kt	6.75	PJ
NATURAL GAS AND LNG	10,634.00	mcm	0.0366	PJ/mcm	388.76	PJ
LNG	10,634.00	mcm	0.0366	PJ/mcm	388.76	PJ
TOTAL EXPORTS					6,693.22	PJ
INTERNATIONAL MARINE BUNKERS						
DIESEL OIL	943.23	kt	0.0408	PJ/kt	38.85	PJ
FUEL OIL	157.54	kt	0.0433	PJ/kt	6.82	PJ
FUEL OIL	785.69	kt	0.0408	PJ/kt	32.02	PJ
TOTAL PRIMARY ENERGY SUPPLY					5,172.19	PJ

Original Table (Energy Demand and Supply) of Australia in 2003 (Continued)

Year:2003

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	4,988.00	kt	0.0260	PJ/kt	129.63	PJ
HARD COAL	4,683.00	kt	0.0271	PJ/kt	126.79	PJ
COKING COAL	4,683.00	kt	0.0271	PJ/kt	126.79	PJ
LIGNITE	305.00	kt	0.0093	PJ/kt	2.84	PJ
ELECTRICITY	5,077.00	GWh	0.0036	PJ/GWh	18.28	PJ
COKE	2,650.00	kt	0.0244	PJ/kt	64.57	PJ
NATURAL GAS	6,900.00	TJ	0.0009	PJ/TJ	6.21	PJ
REFINING						
CRUDE OIL AND NGL/CONDENSATE	34,948.00	kt	0.0440	PJ/kt	1,537.19	PJ
CRUDE OIL	32,465.00	kt	0.0440	PJ/kt	1,427.97	PJ
NGL/CONDENSATE	2,483.00	kt	0.0440	PJ/kt	109.21	PJ
NATURAL GAS AND LNG	25,213.84	TJ	0.0009	PJ/TJ	22.69	PJ
NATURAL GAS	25,213.84	TJ	0.0009	PJ/TJ	22.69	PJ
ELECTRICITY	1,900.00	GWh	0.0036	PJ/GWh	6.84	PJ
OTHERS	1,107.00	kt	0.0409	PJ/kt	45.22	PJ
GAS PROCESSING						
LPG	24.09	kt	0.0469	PJ/kt	1.13	PJ
NATURAL GAS	22,283.08	TJ	0.0009	PJ/TJ	20.05	PJ
ELECTRICITY	25.00	GWh	0.0036	PJ/GWh	0.09	PJ
POWER GENERATION (PUBLIC UTILITIES)						
COAL	121,703.00	kt	0.0154	PJ/kt	1,871.18	PJ
HARD COAL	54,131.00	kt	0.0229	PJ/kt	1,242.08	PJ
STEAM COAL	27,131.00	kt	0.0243	PJ/kt	659.83	PJ
SUBBITUMINOUS COAL	27,000.00	kt	0.0216	PJ/kt	582.26	PJ
LIGNITE	67,572.00	kt	0.0093	PJ/kt	629.10	PJ
BRIQUETTES	130.00	kt	0.0210	PJ/kt	2.73	PJ
BLAST FURNACE GAS	21,300.00	TJ	0.0009	PJ/TJ	19.17	PJ
DIESEL OIL	263.85	kt	0.0433	PJ/kt	11.43	PJ
FUEL OIL	125.00	kt	0.0408	PJ/kt	5.09	PJ
NATURAL GAS AND LNG	219,000.00	TJ	0.0009	PJ/TJ	197.10	PJ
NATURAL GAS	219,000.00	TJ	0.0009	PJ/TJ	197.10	PJ
HYDRO POWER	16,168.00	GWh	0.0036	PJ/GWh	58.20	PJ
WIND	699.00	GWh	0.0036	PJ/GWh	2.52	PJ
OTHER POWER	208,020.00	TJ	0.0010	PJ/TJ	208.02	PJ
POWER GENERATION (AUTO PRODUCERS)						
COAL	1.00	kt	0.0243	PJ/kt	0.02	PJ
HARD COAL	1.00	kt	0.0243	PJ/kt	0.02	PJ
STEAM COAL	1.00	kt	0.0243	PJ/kt	0.02	PJ
BLAST FURNACE GAS	950.00	TJ	0.0009	PJ/TJ	0.86	PJ
LPG	1.78	kt	0.0470	PJ/kt	0.08	PJ
KEROSENE	42.06	kt	0.0438	PJ/kt	1.84	PJ
DIESEL OIL	28.99	kt	0.0433	PJ/kt	1.26	PJ
FUEL OIL	4.11	kt	0.0408	PJ/kt	0.17	PJ
NATURAL GAS AND LNG	78,246.64	TJ	0.0009	PJ/TJ	70.42	PJ
NATURAL GAS	78,246.64	TJ	0.0009	PJ/TJ	70.42	PJ
HYDRO POWER	280.00	GWh	0.0036	PJ/GWh	1.01	PJ
OTHER POWER	28,957.00	TJ	0.0010	PJ/TJ	28.96	PJ
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	3,316.00	kt	0.0257	PJ/kt	85.06	PJ
COKE OVEN GAS	14,207.00	TJ	0.0009	PJ/TJ	12.79	PJ
BLAST FURNACE GAS	32,000.00	TJ	0.0009	PJ/TJ	28.80	PJ
OTHERS						
BRIQUETTES	300.00	kt	0.0200	PJ/kt	5.99	PJ
REFINING						
REFINERY GAS	2,049.48	kt	0.0408	PJ/kt	83.53	PJ
LPG	942.00	kt	0.0470	PJ/kt	44.30	PJ
NAPHTHA	331.00	kt	0.0457	PJ/kt	15.13	PJ
MOGAS	13,213.00	kt	0.0441	PJ/kt	582.43	PJ
JET FUEL	4,271.00	kt	0.0441	PJ/kt	188.27	PJ
AVGAS	104.00	kt	0.0445	PJ/kt	4.62	PJ
KEROSENE	188.00	kt	0.0438	PJ/kt	8.23	PJ
DIESEL OIL	11,430.00	kt	0.0433	PJ/kt	495.15	PJ
FUEL OIL	1,400.00	kt	0.0408	PJ/kt	57.06	PJ
OTHER PETROLEUM PRODUCTS	2,433.00	kt	0.0418	PJ/kt	101.70	PJ
GAS RECOVERING						
TOWN GAS	9,365.01	TJ	0.0009	PJ/TJ	8.54	PJ
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	197,950.00	GWh	0.0036	PJ/GWh	712.62	PJ
COAL	174,053.00	GWh	0.0036	PJ/GWh	626.59	PJ
OIL	730.00	GWh	0.0036	PJ/GWh	2.63	PJ
GAS	23,167.00	GWh	0.0036	PJ/GWh	83.40	PJ
HYDRO POWER	16,168.00	GWh	0.0036	PJ/GWh	58.20	PJ
WIND	699.00	GWh	0.0036	PJ/GWh	2.52	PJ
OTHER POWER	648.00	GWh	0.0036	PJ/GWh	2.33	PJ
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	11,755.00	GWh	0.0036	PJ/GWh	42.32	PJ
COAL	2.00	GWh	0.0036	PJ/GWh	0.01	PJ
OIL	1,554.00	GWh	0.0036	PJ/GWh	5.59	PJ
GAS	10,199.00	GWh	0.0036	PJ/GWh	36.72	PJ

Original Table (Energy Demand and Supply) of Australia in 2003 (Continued)

Year:2003

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HYDRO POWER	280.00	GWh	0.0036	PJ/GWh	1.01	PJ
OTHER POWER	1,515.00	GWh	0.0036	PJ/GWh	5.45	PJ
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
REFINERY GAS	1,757.73	kt	0.0408	PJ/kt	71.64	PJ
NAPHTHA	316.00	kt	0.0457	PJ/kt	14.44	PJ
MOGAS	305.00	kt	0.0441	PJ/kt	13.44	PJ
JET FUEL	300.00	kt	0.0441	PJ/kt	13.22	PJ
AVGAS	10.00	kt	0.0445	PJ/kt	0.44	PJ
KEROSENE	43.98	kt	0.0438	PJ/kt	1.93	PJ
OTHER PETROLEUM PRODUCTS	59.00	kt	0.0418	PJ/kt	2.47	PJ
NATURAL GAS AND LNG	10,400.00	TJ	0.0009	PJ/TJ	9.36	PJ
NATURAL GAS	10,400.00	TJ	0.0009	PJ/TJ	9.36	PJ
ELECTRICITY	15,163.00	GWh	0.0036	PJ/GWh	54.59	PJ
TOTAL LOSSES AND OWN USE					181.53	PJ
FINAL ENERGY CONSUMPTION TOTAL						
COAL	3,602.00	kt	0.0227	PJ/kt	81.74	PJ
HARD COAL	3,602.00	kt	0.0227	PJ/kt	81.74	PJ
STEAM COAL	1,474.00	kt	0.0243	PJ/kt	35.85	PJ
SUBBITUMINOUS COAL	2,128.00	kt	0.0216	PJ/kt	45.89	PJ
COKE	364.00	kt	0.0244	PJ/kt	8.87	PJ
COKE OVEN GAS	22,331.00	TJ	0.0009	PJ/TJ	20.10	PJ
BRIQUETTES	218.00	kt	0.0200	PJ/kt	4.35	PJ
BLAST FURNACE GAS	1,300.00	TJ	0.0009	PJ/TJ	1.17	PJ
CRUDE OIL AND NGL/CONDENSATE	17.00	kt	0.0469	PJ/kt	0.80	PJ
REFINERY GAS	183.89	kt	0.0408	PJ/kt	7.49	PJ
LPG	2,722.56	kt	0.0470	PJ/kt	128.03	PJ
MOGAS	13,877.35	kt	0.0441	PJ/kt	611.71	PJ
JET FUEL	3,434.00	kt	0.0441	PJ/kt	151.35	PJ
KEROSENE	75.32	kt	0.0438	PJ/kt	3.30	PJ
DIESEL OIL	12,977.04	kt	0.0434	PJ/kt	563.40	PJ
FUEL OIL	79.08	kt	0.0408	PJ/kt	3.22	PJ
OTHER PETROLEUM PRODUCTS	2,694.00	kt	0.0418	PJ/kt	112.61	PJ
NATURAL GAS AND LNG	807,701.90	TJ	0.0009	PJ/TJ	736.64	PJ
NATURAL GAS	807,701.90	TJ	0.0009	PJ/TJ	736.64	PJ
TOWN GAS	9,360.07	TJ	0.0009	PJ/TJ	8.54	PJ
SOLAR HEAT	3,700.00	TJ	0.0010	PJ/TJ	3.70	PJ
ELECTRICITY	197,321.00	GWh	0.0036	PJ/GWh	710.36	PJ
OTHERS	168,503.00	TJ	0.0010	PJ/TJ	168.50	PJ
TOTAL					3,325.88	PJ
AGRICULTURE						
LPG	28.49	kt	0.0470	PJ/kt	1.34	PJ
MOGAS	99.73	kt	0.0441	PJ/kt	4.40	PJ
KEROSENE	0.96	kt	0.0438	PJ/kt	0.04	PJ
DIESEL OIL	1,890.16	kt	0.0434	PJ/kt	82.06	PJ
NATURAL GAS AND LNG	91.81	TJ	0.0009	PJ/TJ	0.08	PJ
NATURAL GAS	91.81	TJ	0.0009	PJ/TJ	0.08	PJ
ELECTRICITY	1,663.00	GWh	0.0036	PJ/GWh	5.99	PJ
TOTAL					93.91	PJ
RESIDENTIAL COMMERCIAL						
COAL	16.00	kt	0.0243	PJ/kt	0.39	PJ
HARD COAL	16.00	kt	0.0243	PJ/kt	0.39	PJ
STEAM COAL	16.00	kt	0.0243	PJ/kt	0.39	PJ
BRIQUETTES	105.00	kt	0.0210	PJ/kt	2.20	PJ
LPG	309.84	kt	0.0470	PJ/kt	14.57	PJ
KEROSENE	70.74	kt	0.0438	PJ/kt	3.10	PJ
DIESEL OIL	414.68	kt	0.0434	PJ/kt	18.00	PJ
NATURAL GAS AND LNG	190,467.72	TJ	0.0009	PJ/TJ	173.71	PJ
NATURAL GAS	190,467.72	TJ	0.0009	PJ/TJ	173.71	PJ
TOWN GAS	2,232.96	TJ	0.0009	PJ/TJ	2.01	PJ
SOLAR HEAT	3,700.00	TJ	0.0010	PJ/TJ	3.70	PJ
ELECTRICITY	101,753.00	GWh	0.0036	PJ/GWh	366.35	PJ
OTHERS	65,670.00	TJ	0.0010	PJ/TJ	65.67	PJ
TOTAL					649.70	PJ
OTHERS						
LPG	26.71	kt	0.0470	PJ/kt	1.26	PJ
KEROSENE	1.91	kt	0.0438	PJ/kt	0.08	PJ
DIESEL OIL	2,598.01	kt	0.0434	PJ/kt	112.79	PJ
FUEL OIL	1.03	kt	0.0408	PJ/kt	0.04	PJ
NATURAL GAS AND LNG	165,586.18	TJ	0.0009	PJ/TJ	151.02	PJ
NATURAL GAS	165,586.18	TJ	0.0009	PJ/TJ	151.02	PJ
TOTAL					265.19	PJ
INDUSTRY						
COAL	3,461.00	kt	0.0227	PJ/kt	78.65	PJ
HARD COAL	3,461.00	kt	0.0227	PJ/kt	78.65	PJ
STEAM COAL	1,458.00	kt	0.0243	PJ/kt	35.46	PJ
SUBBITUMINOUS COAL	2,003.00	kt	0.0216	PJ/kt	43.19	PJ
COKE	364.00	kt	0.0257	PJ/kt	9.34	PJ
COKE OVEN GAS	22,331.00	TJ	0.0009	PJ/TJ	20.10	PJ
BRIQUETTES	113.00	kt	0.0210	PJ/kt	2.37	PJ
BLAST FURNACE GAS	1,300.00	TJ	0.0009	PJ/TJ	1.17	PJ
REFINERY GAS	183.89	kt	0.0408	PJ/kt	7.49	PJ

Original Table (Energy Demand and Supply) of Australia in 2003 (Continued)

Year:2003

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
LPG	956.22	kt	0.0470	PJ/kt	44.97	PJ
NAPHTHA	30.00	kt	0.0457	PJ/kt	1.37	PJ
KEROSENE	1.91	kt	0.0438	PJ/kt	0.08	PJ
DIESEL OIL	316.31	kt	0.0434	PJ/kt	13.73	PJ
FUEL OIL	35.96	kt	0.0408	PJ/kt	1.47	PJ
OTHER PETROLEUM PRODUCTS	1,951.17	kt	0.0418	PJ/kt	81.56	PJ
NATURAL GAS AND LNG	323,460.00	TJ	0.0009	PJ/TJ	295.00	PJ
NATURAL GAS	323,460.00	TJ	0.0009	PJ/TJ	295.00	PJ
TOWN GAS	7,161.48	TJ	0.0009	PJ/TJ	6.53	PJ
ELECTRICITY	96,111.00	GWh	0.0036	PJ/GWh	346.00	PJ
OTHERS	102,833.00	TJ	0.0010	PJ/TJ	102.83	PJ
TOTAL					1,012.67	PJ
TRANSPORT						
COAL	125.00	kt	0.0216	PJ/kt	2.70	PJ
HARD COAL	125.00	kt	0.0216	PJ/kt	2.70	PJ
SUBBITUMINOUS COAL	125.00	kt	0.0216	PJ/kt	2.70	PJ
LPG	1,401.39	kt	0.0470	PJ/kt	65.90	PJ
MOGAS	13,778.00	kt	0.0441	PJ/kt	607.33	PJ
JET FUEL	3,434.00	kt	0.0441	PJ/kt	151.35	PJ
DIESEL OIL	7,758.33	kt	0.0434	PJ/kt	336.83	PJ
FUEL OIL	42.12	kt	0.0408	PJ/kt	1.72	PJ
NATURAL GAS AND LNG	17,445.00	TJ	0.0009	PJ/TJ	15.70	PJ
NATURAL GAS	17,445.00	TJ	0.0009	PJ/TJ	15.70	PJ
ELECTRICITY	1,880.00	GWh	0.0036	PJ/GWh	6.77	PJ
TOTAL					1,188.30	PJ
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	706.00	kt	0.0440	PJ/kt	31.05	PJ
NATURAL GAS AND LNG	112,345.80	TJ	0.0009	PJ/TJ	101.11	PJ
NATURAL GAS	112,345.80	TJ	0.0009	PJ/TJ	101.11	PJ
TOTAL NON-ENERGY USE					132.16	PJ

Original Table (Energy Demand and Supply) of Australia in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER		
COAL	27656	
OIL	1482	
GAS	8640	
HYDRO POWER	7380	
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)	120	
OTHERS (BIOMASS, MUNICIPAL WASTE)	857	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)	857	

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Australia in 2003

2003

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	27.00	kt	0.0235	PJ/kt	0.63	PJ
HARD COAL	27.00	kt	0.0235	PJ/kt	0.63	PJ
STEAM COAL	27.00	kt	0.0235	PJ/kt	0.63	PJ
COKE	13.00	kt	0.0270	PJ/kt	0.35	PJ
COKE OVEN GAS	21,031.00	TJ	0.0010	PJ/TJ	21.03	PJ
BLAST FURNACE GAS	1,300.00	TJ	0.0010	PJ/TJ	1.30	PJ
LPG	6.00	kt	0.0495	PJ/kt	0.30	PJ
DIESEL OIL	27.00	kt	0.0457	PJ/kt	1.23	PJ
NATURAL GAS/LNG	41,180.00	TJ	0.0010	PJ/TJ	41.18	PJ
NATURAL GAS	41,180.00	TJ	0.0010	PJ/TJ	41.18	PJ
ELECTRICITY	6,396.00	GWh	0.0036	PJ/GWh	23.03	PJ
TOTAL					89.05	PJ
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	158.00	kt	0.0235	PJ/kt	3.71	PJ
HARD COAL	158.00	kt	0.0235	PJ/kt	3.71	PJ
STEAM COAL	158.00	kt	0.0235	PJ/kt	3.71	PJ
COKE	34.00	kt	0.0270	PJ/kt	0.92	PJ
BRIQUETTES	70.00	kt	0.0221	PJ/kt	1.55	PJ
REFINERY GAS	85.00	kt	0.0429	PJ/kt	3.65	PJ
LPG	310.00	kt	0.0494	PJ/kt	15.31	PJ
DIESEL OIL	25.00	kt	0.0457	PJ/kt	1.14	PJ
FUEL OIL	24.00	kt	0.0429	PJ/kt	1.03	PJ
OTHER PETROLEUM PRODUCTS	5.00	kt	0.0440	PJ/kt	0.22	PJ
NATURAL GAS/LNG	82,677.00	TJ	0.0010	PJ/TJ	82.68	PJ
NATURAL GAS	82,677.00	TJ	0.0010	PJ/TJ	82.68	PJ
TOWN GAS	2,220.00	TJ	0.0010	PJ/TJ	2.22	PJ
ELECTRICITY	4,248.00	GWh	0.0036	PJ/GWh	15.29	PJ
OTHERS	43.00	TJ	0.0010	PJ/TJ	0.04	PJ
TOTAL					127.76	PJ
1.3 NON-FERROUS METALS						
COAL	1,610.00	kt	0.0228	PJ/kt	36.79	PJ
HARD COAL	1,610.00	kt	0.0228	PJ/kt	36.79	PJ
STEAM COAL	300.00	kt	0.0235	PJ/kt	7.05	PJ
SUBBITUMINOUS COAL	1,310.00	kt	0.0227	PJ/kt	29.74	PJ
COKE	220.00	kt	0.0270	PJ/kt	5.94	PJ
LPG	5.00	kt	0.0490	PJ/kt	0.25	PJ
NAPHTHA	30.00	kt	0.0481	PJ/kt	1.44	PJ
DIESEL OIL	55.00	kt	0.0457	PJ/kt	2.51	PJ
FUEL OIL	700.00	kt	0.0429	PJ/kt	30.03	PJ
NATURAL GAS/LNG	80,006.00	TJ	0.0010	PJ/TJ	80.01	PJ
NATURAL GAS	80,007.00	TJ	0.0010	PJ/TJ	80.01	PJ
ELECTRICITY	42,697.00	GWh	0.0036	PJ/GWh	153.71	PJ
OTHERS	790.00	kt	0.0429	PJ/kt	33.89	PJ
TOTAL					344.56	PJ
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	844.00	kt	0.0233	PJ/kt	19.65	PJ
HARD COAL	844.00	kt	0.0233	PJ/kt	19.65	PJ
STEAM COAL	620.00	kt	0.0235	PJ/kt	14.57	PJ
SUBBITUMINOUS COAL	224.00	kt	0.0227	PJ/kt	5.08	PJ
LPG	45.00	kt	0.0494	PJ/kt	2.22	PJ
DIESEL OIL	35.00	kt	0.0456	PJ/kt	1.60	PJ
FUEL OIL	8.00	kt	0.0429	PJ/kt	0.34	PJ
NATURAL GAS/LNG	52,259.00	TJ	0.0010	PJ/TJ	52.26	PJ
NATURAL GAS	52,260.00	TJ	0.0010	PJ/TJ	52.26	PJ
ELECTRICITY	3,815.00	GWh	0.0036	PJ/GWh	13.73	PJ
OTHERS	6,000.00	TJ	0.0010	PJ/TJ	6.00	PJ
TOTAL					100.89	PJ
1.5 PAPER, PULP AND PRINTING						
LPG	8.00	kt	0.0494	PJ/kt	0.40	PJ
FUEL OIL	20.00	kt	0.0429	PJ/kt	0.86	PJ
NATURAL GAS/LNG	13,373.00	TJ	0.0010	PJ/TJ	13.37	PJ
NATURAL GAS	13,374.00	TJ	0.0010	PJ/TJ	13.37	PJ
ELECTRICITY	13,374.00	GWh	0.0036	PJ/GWh	48.15	PJ
OTHERS	8,000.00	TJ	0.0010	PJ/TJ	8.00	PJ
TOTAL					70.77	PJ
1.6 OTHER INDUSTRIES						
COAL	822.00	kt	0.0230	PJ/kt	18.94	PJ
HARD COAL	822.00	kt	0.0230	PJ/kt	18.94	PJ

Original Table (Disaggregated Final Energy Demand) of Australia in 2003 (Continued)

2003

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
STEAM COAL	353.00	kt	0.0235	PJ/kt	8.30	PJ
SUBBITUMINOUS COAL	469.00	kt	0.0227	PJ/kt	10.65	PJ
COKE OVEN GAS	1,300.00	TJ	0.0010	PJ/TJ	1.30	PJ
BRIQUETTES	43.00	kt	0.0221	PJ/kt	0.95	PJ
LPG	48.00	kt	0.0494	PJ/kt	2.37	PJ
DIESEL OIL	1,682.00	kt	0.0457	PJ/kt	76.87	PJ
FUEL OIL	52.00	kt	0.0429	PJ/kt	2.23	PJ
NATURAL GAS/LNG	53,962.00	TJ	0.0010	PJ/TJ	53.96	PJ
NATURAL GAS	53,963.00	TJ	0.0010	PJ/TJ	53.96	PJ
ELECTRICITY	25,581.00	GWh	0.0036	PJ/GWh	92.09	PJ
OTHERS	88,000.00	TJ	0.0010	PJ/TJ	88.00	PJ
TOTAL					336.72	PJ
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	3,370.00	kt	0.0464	PJ/kt	156.37	PJ
AVGAS	64.00	kt	0.0468	PJ/kt	3.00	PJ
TOTAL					159.36	PJ
2.2 ROAD						
LPG	1,394.00	kt	0.0495	PJ/kt	69.00	PJ
MOGAS	13,778.00	kt	0.0464	PJ/kt	639.30	PJ
DIESEL OIL	6,903.00	kt	0.0457	PJ/kt	315.47	PJ
NATURAL GAS	990.00	TJ	0.0010	PJ/TJ	0.99	PJ
TOTAL					1,024.76	PJ
2.3 RAIL						
DIESEL OIL	488.00	kt	0.0457	PJ/kt	22.30	PJ
ELECTRICITY	1,880.00	GWh	0.0036	PJ/GWh	6.77	PJ
TOTAL					29.07	PJ
2.4 INTERNAL NAVIGATION						
COAL	125.00	kt	0.0256	PJ/kt	3.20	PJ
LPG	1.00	kt	0.0495	PJ/kt	0.05	PJ
DIESEL OIL	98.00	kt	0.0457	PJ/kt	4.48	PJ
NATURAL GAS	13,679.00	TJ	0.0010	PJ/TJ	13.68	PJ
ELECTRICITY	163.00	GWh	0.0036	PJ/GWh	0.59	PJ
TOTAL					21.99	PJ
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
COAL	14.00	kt	0.0256	PJ/kt	0.36	PJ
BRIQUETTES	100.00	kt	0.0221	PJ/kt	2.21	PJ
LPG	70.00	kt	0.0495	PJ/kt	3.47	PJ
KEROSENE	19.00	kt	0.0461	PJ/kt	0.88	PJ
DIESEL OIL	385.00	kt	0.0457	PJ/kt	17.59	PJ
FUEL OIL	3.00	kt	0.0429	PJ/kt	0.13	PJ
NATURAL GAS	43,595.00	TJ	0.0010	PJ/TJ	43.60	PJ
TOWN GAS	320.00	TJ	0.0010	PJ/TJ	0.32	PJ
ELECTRICITY	49,589.00	GWh	0.0036	PJ/GWh	178.52	PJ
TOTAL					247.07	PJ
3.2 RESIDENTIAL						
COAL	2.00	kt	0.0256	PJ/kt	0.05	PJ
BRIQUETTES	5.00	kt	0.0221	PJ/kt	0.11	PJ
LPG	220.00	kt	0.0495	PJ/kt	10.89	PJ
KEROSENE	39.00	kt	0.0461	PJ/kt	1.80	PJ
NATURAL GAS	126,114.00	TJ	0.0010	PJ/TJ	126.11	PJ
TOWN GAS	750.00	TJ	0.0010	PJ/TJ	0.75	PJ
SOLAR	3,700.00	TJ	0.0010	PJ/TJ	3.70	PJ
ELECTRICITY	52,164.00	GWh	0.0036	PJ/GWh	187.79	PJ
TOTAL					331.20	PJ

Original Table (Quarterly) of Australia in 2004

Coal		Unit: Mt			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	-	19	-
	FEB.	-	-	17	-
	MAR.	-	-	17	-
	1st quarter	66	-	53	-
	APR.	-	-	19	-
	MAY.	-	-	19	-
	JUN.	-	-	18	-
	2nd quarter	76	-	57	-
	JUL.	-	-	18	-
	AUG.	-	-	20	-
	SEP.	-	-	18	-
	3rd quarter	78	-	57	-
	OCT.	-	-	20	-
	NOV.	-	-	18	-
	DEC.	-	-	20	-
	4th quarter	78	-	57	-
		298	-	224	-

Oil		Unit: kt						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	1,861	1,305	1,038	-147	753	349	353
	FEB.	1,700	1,762	1,034	36	709	234	33
	MAR.	1,719	1,837	1,123	-26	763	281	-112
	1st quarter	5,280	4,904	3,195	-137	2,225	864	274
	APR.	1,652	1,735	846	274	886	329	5
	MAY.	1,644	1,507	666	-107	884	199	35
	JUN.	1,740	1,423	930	-5	757	206	-26
	2nd quarter	5,036	4,665	2,442	162	2,527	734	14
	JUL.	1,767	1,745	1,216	-53	737	246	44
	AUG.	1,824	1,477	978	42	767	268	-19
	SEP.	1,613	1,522	944	6	815	209	-112
	3rd quarter	5,204	4,744	3,138	-5	2,319	723	-87
	OCT.	1,505	1,701	903	-76	703	253	117
	NOV.	1,587	1,837	964	172	788	271	-207
	DEC.	1,519	1,971	878	-236	873	192	209
	4th quarter	4,611	5,509	2,745	-140	2,364	716	119
		20,131	19,822	11,520	-120	9,435	3,037	320

Original Table (Quarterly) of Australia in 2004 (Continued)

		Natural Gas (or LNG)				Unit: Mm ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	2,465	-	-	-	-
	FEB.	2,571	-	-	-	-
	MAR.	2,391	-	-	-	-
	1st quarter	7,427	-	1,909	-	-
	APR.	2,457	-	-	-	-
	MAY.	2,967	-	-	-	-
	JUN.	3,001	-	-	-	-
	2nd quarter	8,425	-	1,976	-	-
	JUL.	3,280	-	-	-	-
	AUG.	3,562	-	-	-	-
	SEP.	3,014	-	-	-	-
	3rd quarter	9,856	-	2,458	-	-
	OCT.	3,126	-	-	-	-
	NOV.	3,194	-	-	-	-
	DEC.	3,153	-	-	-	-
	4th quarter	9,473	-	2,831	-	-
		35,181	-	9,174	-	-

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	1st quarter	-	-	-	-	-	-	-
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	2nd quarter	-	-	-	-	-	-	-
	JUL.	-	-	-	-	-	-	-
	AUG.	-	-	-	-	-	-	-
	SEP.	-	-	-	-	-	-	-
	3rd quarter	-	-	-	-	-	-	-
	OCT.	-	-	-	-	-	-	-
	NOV.	-	-	-	-	-	-	-
	DEC.	-	-	-	-	-	-	-
	4th quarter	-	-	-	-	-	-	-
		-	-	-	-	-	-	-

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.2 Brunei Darussalam

Energy Balance Table of Brunei Darussalam in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	10,296	-	-	-	-	-	-
2 Import	-	-	-	13	-	-	0	-	-
3 Export	-	-	-9,637	0	0	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	13	-1	-4	-	1	-	1
6 Total Primary Energy Supply	-	-	672	12	-4	-	1	-	1
7 Public Electricity	-	-	-	-6	-	-	-	-	-6
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	14	-	-	-	-	-
10 Petroleum Refineries	-	-	-658	583	201	-	80	-	159
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-14	-173	-5	-	-3	-	-23
13 Discrepancy	-	-	0	11	6	-	1	2	3
14 Total Final Energy Consumption	-	-	-	442	198	-	80	2	134
15 Industry Sector	-	-	-	40	-	-	-	2	39
16 Transport Sector	-	-	-	371	198	-	77	-	95
17 Other Sector	-	-	-	15	-	-	-	1	0
18 Agriculture	-	-	-	0	-	-	-	-	0
19 Residential & Commercial	-	-	-	15	-	-	-	1	0
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	14	-	-	-	-	-

Energy Balance Table of Brunei Darussalam in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	10,124	-	-	-	-	-	-
2 Import	-	-	-	19	-	-	9	-	-
3 Export	-	-	-9,521	0	0	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	44	-4	1	-	-2	-	-2
6 Total Primary Energy Supply	-	-	647	14	1	-	6	-	-2
7 Public Electricity	-	-	-	-6	-	-	-	-	-6
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	14	-	-	-	-	-
10 Petroleum Refineries	-	-	-646	561	197	-	78	-	148
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-1	-159	-2	-	-2	-	-18
13 Discrepancy	-	-	0	10	0	-	0	2	0
14 Total Final Energy Consumption	-	-	-	434	196	-	82	2	122
15 Industry Sector	-	-	-	39	-	-	-	2	37
16 Transport Sector	-	-	-	360	196	-	79	-	84
17 Other Sector	-	-	-	24	-	-	-	1	0
18 Agriculture	-	-	-	0	-	-	-	-	0
19 Residential & Commercial	-	-	-	24	-	-	-	1	0
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	9	-	-	-	-	-

Energy Balance Table of Brunei Darussalam in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	11,479	-	-	-	-	-	-	-	21,774
-	-	-	13	-	-	-	-	-	-	-	-	13
-	-	-	-	-8,396	-	-	-	-	-	-	-	-18,033
-	0	-	1	30	-	-	-	-	-	-	-	43
-	0	-	14	3,113	-	-	-	-	-	-	-	3,798
-	-	-	-	-1,073	-	-	-	-	-	242	-	-837
-	-	-	-	-886	-	-	-	-	-	30	-	-855
-	14	-	-	-681	-	-	-	-	-	-	-	-667
73	-	69	-	-	-	-	-	-	-	-	-	-75
-	-	-	-	-	-	-	-	-	-	-	-	-
-73	-	-69	-	-294	-	-	-	-	-	-39	-	-519
-	-1	-	0	-152	-	-	-	-	-	0	-	-141
-	14	-	14	27	-	-	-	-	-	233	-	703
-	-	-	-	-	-	-	-	-	-	54	-	94
-	-	-	-	-	-	-	-	-	-	-	-	371
-	14	-	-	27	-	-	-	-	-	180	-	222
-	-	-	-	-	-	-	-	-	-	-	-	0
-	14	-	-	27	-	-	-	-	-	180	-	222
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	14	-	-	-	-	-	-	-	-	14

Energy Balance Table of Brunei Darussalam in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	10,644	-	-	-	-	-	-	-	20,769
-	-	-	10	-	-	-	-	-	-	-	-	19
-	-	-	-	-7,995	-	-	-	-	-	-	-	-17,516
-	0	-	-1	10	-	-	-	-	-	-	-	49
-	0	-	9	2,660	-	-	-	-	-	-	-	3,320
-	-	-	-	-1,038	-	-	-	-	-	232	-	-812
-	-	-	-	-853	-	-	-	-	-	27	-	-825
-	14	-	-	-386	-	-	-	-	-	-	-	-372
66	-	72	-	-	-	-	-	-	-	-	-	-85
-	-	-	-	-	-	-	-	-	-	-	-	-
-66	-	-72	-	-431	-	-	-	-	-	-35	-	-626
-	-1	0	9	78	-	-	-	-	-	0	-	89
-	14	-	18	30	-	-	-	-	-	225	-	689
-	-	-	-	-	-	-	-	-	-	54	-	93
-	-	-	-	-	-	-	-	-	-	-	-	360
-	14	-	9	30	-	-	-	-	-	170	-	224
-	-	-	-	-	-	-	-	-	-	-	-	0
-	14	-	9	30	-	-	-	-	-	170	-	224
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	9	-	-	-	-	-	-	-	-	9

Major Energy Indicators of Brunei Darussalam

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	3,245	1,999	1,880	2,052	1,925	1,416	2,259	2,071	3,184
Indigenous Production	20,664	16,005	14,693	14,383	14,271	14,786	14,902	15,259	16,808
Import	215	41	40	29	37	37	71	80	70
Export	-17,589	-14,038	-12,512	-11,970	-12,107	-13,122	-13,005	-12,977	-13,764
Final Energy Consumption	241	314	401	383	416	440	419	417	407
Industry	39	31	43	39	49	55	48	53	59
Transport	165	215	246	232	253	262	242	255	238
Residential & Commercial	37	68	113	112	115	123	119	108	109
Agriculture	-	-	-	-	-	-	-	-	-
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	236	50	104	78	-133	559	38	1,003
Indigenous Production	12,121	8,687	7,499	7,420	6,945	7,576	7,576	7,677	9,031
Import	-	-	-	-	-	-	67	76	30
Export	-11,919	-8,435	-7,108	-6,925	-6,591	-7,424	-7,374	-7,424	-8,132
Transformation Sector	-	34	-223	-285	-256	-253	54	65	-312
Petroleum Refineries	-	-235	-223	-285	-256	-253	-302	-321	-312
Petroleum Products									
Primary Energy Supply	215	15	34	23	32	32	1	0	37
Import	215	41	40	29	37	37	5	4	40
Export	-	-25	-6	-6	-5	-5	-4	-3	-5
Transformation Sector	-	189	219	254	257	270	303	313	266
Power Generation	-	-	-1	-2	-2	-2	-3	-3	-3
Petroleum Refineries	-	177	188	239	241	255	279	290	251
Final Energy Consumption	215	272	314	299	315	329	302	309	289
Industry	31	17	27	24	20	23	14	17	39
Transport	165	215	246	232	253	262	242	255	238
Residential & Commercial	19	40	42	44	43	44	36	37	12
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	2,863	1,748	1,796	1,924	1,815	1,517	1,698	2,033	2,144
Indigenous Production	8,543	7,318	7,194	6,962	7,326	7,210	7,326	7,583	7,778
Import	-	-	-	-	-	-	-	-	-
Export	-5,670	-5,579	-5,398	-5,038	-5,511	-5,692	-5,628	-5,549	-5,628
Transformation Sector	-1,726	-2,026	-2,393	-2,515	-2,392	-2,558	-2,703	-2,071	-2,821
Power Generation	-733	-890	-955	-960	-945	-1,410	-1,470	-517	-1,740
Final Energy Consumption	-	-	36	36	36	36	36	25	30
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	36	36	36	36	36	25	30
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	33	56	61	65	81	91	94	101	109
Thermal	33	56	61	65	81	91	94	101	109
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	26	42	51	48	65	75	81	82	88
Industry	8	13	16	15	29	32	34	36	20
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	18	29	35	33	36	43	47	46	68
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Brunei Darussalam (Continued)

ktoe											
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
2,081	2,669	2,392	2,712	2,811	2,890	2,912	2,529	2,701	2,422	3,320	3,798
16,785	16,463	16,886	17,395	16,889	16,774	16,238	16,486	17,411	17,519	20,769	21,774
42	10	25	36	88	106	38	22	22	8	19	13
-14,688	-13,804	-14,466	-14,678	-14,251	-13,789	-13,475	-13,896	-14,845	-15,086	-17,516	-18,033
526	526	564	632	735	801	748	665	636	635	689	703
27	52	113	109	120	130	108	94	91	84	93	94
323	314	314	330	361	389	358	324	324	337	360	371
114	155	113	150	187	217	223	233	198	203	224	222
5	6	6	-	0	1	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
461	437	491	534	537	588	606	569	566	565	647	672
8,892	8,535	8,676	8,465	8,027	7,912	7,664	8,386	9,006	9,072	10,124	10,296
-	-	-	-	-	-	-	-	-	-	-	-
-8,373	-8,071	-8,197	-7,900	-7,573	-7,153	-7,130	-7,746	-8,541	-8,475	-9,521	-9,637
-520	-498	-503	-534	-546	-612	-632	-582	-573	-569	-647	-672
-520	-498	-503	-534	-546	-612	-632	-582	-573	-569	-646	-658
42	10	9	40	84	100	42	18	22	10	14	12
42	10	25	36	88	106	38	22	22	8	19	13
-	-	-4	-0	-1	-1	-1	-0	-1	-0	-0	-0
525	401	390	532	518	592	622	521	564	492	410	419
-3	-4	-	-4	-4	-5	-5	-4	-5	-	-6	-6
528	405	382	533	518	595	622	520	566	513	561	583
355	355	416	451	505	548	491	400	401	395	434	442
-	29	72	65	70	81	60	48	40	33	39	40
323	314	314	330	361	389	358	324	324	337	360	371
4	13	12	13	15	16	14	15	14	14	24	15
-	-	-	-	0	1	0	0	0	0	0	0
1,579	2,222	1,893	2,138	2,190	2,202	2,265	1,943	2,113	1,847	2,660	3,113
7,893	7,927	8,210	8,931	8,861	8,862	8,573	8,101	8,405	8,448	10,644	11,479
-	-	-	-	-	-	-	-	-	-	-	-
-6,315	-5,733	-6,265	-6,778	-6,676	-6,635	-6,344	-6,150	-6,302	-6,611	-7,995	-8,396
-966	-1,685	-1,836	-2,358	-2,468	-2,430	-2,658	-2,001	-1,774	-2,075	-2,708	-2,934
-505	-527	-667	-1,312	-1,336	-1,443	-1,462	-1,219	-1,378	-1,419	-1,891	-1,959
61	61	17	33	26	25	24	23	22	26	30	27
5	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
32	61	17	33	26	25	24	23	22	26	30	27
-	-	-	-	-	-	-	-	-	-	-	-
119	133	143	188	215	233	241	235	244	250	259	272
119	133	143	188	215	233	241	235	244	250	259	272
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
109	109	131	149	204	228	234	241	213	214	225	233
22	23	41	44	50	49	49	46	51	52	54	54
-	-	-	-	-	-	-	-	-	-	-	-
78	80	84	104	147	176	185	195	161	163	170	180
5	6	6	-	-	-	-	-	-	-	-	-

Major Economic Indicators of Brunei Darussalam

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	0.19	0.22	0.22	0.23	0.24	0.24	0.25	0.26
Gross Domestic Product *4								
Real Term (Billions of 1995 Price and 1995 USD)	5.68	4.79	4.72	4.59	4.68	4.73	4.68	4.81
Real Term (Billions of 1995 Price and 1995 PPP)	5.45	4.59	4.52	4.40	305.78	4.54	4.49	4.61
Nominal (Billions of Current USD)	4.93	3.78	3.52	2.36	2.75	2.69	3.00	3.59
GDP per Capita *4								
Real Term (1995 Price and 1995 USD)	29,435	22,029	21,146	20,031	19,877	19,533	18,767	18,711
Real Term (1995 Price and 1995 PPP)	28,224	21,123	20,276	19,207	19,060	18,729	17,995	17,941
Nominal (Current USD)	25,538	17,407	15,801	10,298	11,700	11,109	12,017	13,973
Nominal GDP & its Components (Billions of Current BND) *1,*3								
Gross Domestic Product	10.55	8.07	7.75	5.14	5.80	5.41	5.85	6.51
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	0.74	2.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	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.
Real GDP & its Components (Billions of 1974 BND) *1,*3								
Gross Domestic Product	4.26	3.59	3.54	3.44	3.51	3.55	3.51	3.61
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	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 (%) *4								
Agriculture, Fishery and Forest	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industrial Production Index (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	3.204	2.972	1.797	1.902	1.708	1.883	2.213
Imports, c.i.f.	0.572	0.626	0.615	0.656	0.641	0.744	0.859	1.001
Balance of Payments (Billions of Current USD)								
Trade Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Current Account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Overall Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Foreign Exchange Rate (BND/USD) *1	2.1412	2.1331	2.2001	2.1774	2.1060	2.0124	1.9503	1.8125
Purchasing Power Parity (BND/International Dollar) *1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1.7197
Price Indices								
GDP Deflator (1974=100) *4	247.8	224.8	219.3	149.3	165.3	152.7	166.6	180.5
Wholesale Price Index (2000=100) *3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2000=100) *3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Growth Rate (%) *4								
Real GDP	-7.00	-0.05	-1.49	-2.71	2.00	1.10	-1.07	2.74
Population	3.40	2.78	2.62	2.71	2.79	2.88	2.96	3.05
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Source *1 : "World Development Indicators, 2001", World Bank

*2 : "International Financial Statistics, May 2001", 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

: 1995- GDP are from "Brunei Darussalam Statistical Yearbook", Statistical Division, Department of Economic Planning and Development, Ministry of Finance

Major Economic Indicators of Brunei Darussalam (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0.26	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.34	0.34	0.35	0.36
5.00	4.95	4.97	5.06	5.22	5.27	5.46	5.24	5.38	5.53	5.36	5.86	6.08
4.80	4.74	4.77	4.85	5.00	5.05	5.24	5.03	5.16	5.30	5.14	5.62	5.83
3.83	4.03	4.08	4.38	5.22	5.25	5.14	3.90	4.22	4.32	4.18	4.20	4.76
18,899	18,148	17,720	17,531	17,565	17,267	17,418	16,297	16,301	16,359	15,570	16,709	17,063
18,121	17,401	16,991	16,809	16,842	16,557	16,702	15,626	15,630	15,686	14,929	16,022	16,361
14,477	14,784	14,523	15,159	17,565	17,213	16,386	12,136	12,778	12,770	12,139	11,973	13,367
6.62	6.57	6.58	6.69	7.39	7.41	7.63	6.53	7.14	7.44	7.48	7.52	8.30
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3.75	3.71	3.73	3.80	3.91	3.95	4.09	3.93	4.03	4.15	4.02	4.39	4.56
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2.682	2.401	2.167	2.210	2.402	2.481	2.467	2.058	2.754	4.213	3.921	3.817	4.350
1.208	1.482	1.822	1.854	2.091	2.494	2.203	1.552	1.475	1.230	1.267	1.605	1.708
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1.7276	1.6290	1.6158	1.5274	1.4174	1.4100	1.4848	1.6736	1.6950	1.7240	1.7917	1.7906	1.7422
1.5702	1.4730	1.4041	1.5087	1.4782	1.4682	1.5031	1.5026	N.A.	N.A.	N.A.	N.A.	N.A.
176.5	177.0	176.6	176.2	189.1	187.5	186.3	166.2	177.2	179.5	186.3	171.1	182.0
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
4.05	-1.12	0.51	1.80	3.06	1.04	3.60	-3.99	2.56	2.83	-3.13	9.39	3.81
3.01	2.97	2.94	2.90	2.86	2.78	2.70	2.62	2.54	2.46	1.78	1.93	1.66
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Original Table (Energy Demand and Supply) of Brunei Darussalam in 2003

Year:2003

Brunei Darussalam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
CRUDE OIL AND NGL/CONDENSATE	77,912.07	KBBL	0.1321	KTOE/KBBL	10,295.69	KTOE
CRUDE OIL	72,862.17	KBBL	0.1321	KTOE/KBBL	9,628.37	KTOE
NGL/CONDENSATE	5,049.90	KBBL	0.1321	KTOE/KBBL	667.32	KTOE
NATURAL GAS AND LNG	437,143.44	MMSCF	0.0263	KTOE/MMSCF	11,478.53	KTOE
NATURAL GAS	437,143.44	MMSCF	0.0263	KTOE/MMSCF	11,478.53	KTOE
TOTAL PRODUCTION					21,774.22	KTOE
OPENING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	1,699.94	KBBL	0.1321	KTOE/KBBL	224.64	KTOE
CRUDE OIL	1,634.36	KBBL	0.1321	KTOE/KBBL	215.97	KTOE
NGL/CONDENSATE	65.58	KBBL	0.1321	KTOE/KBBL	8.67	KTOE
LPG	3.09	KBBL	0.0887	KTOE/KBBL	0.27	KTOE
MOGAS	58.13	KBBL	0.1173	KTOE/KBBL	6.82	KTOE
JET FUEL	55.99	KBBL	0.1262	KTOE/KBBL	7.06	KTOE
DIESEL OIL	76.02	KBBL	0.1334	KTOE/KBBL	10.14	KTOE
OTHER PETROLEUM PRODUCTS	20.28	KBBL	0.1536	KTOE/KBBL	3.11	KTOE
TOTAL OPENING STOCKS					252.05	KTOE
CLOSING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	1,601.02	KBBL	0.1321	KTOE/KBBL	211.57	KTOE
CRUDE OIL	1,397.13	KBBL	0.1321	KTOE/KBBL	184.62	KTOE
NGL/CONDENSATE	203.89	KBBL	0.1321	KTOE/KBBL	26.94	KTOE
LPG	1.86	KBBL	0.0887	KTOE/KBBL	0.17	KTOE
MOGAS	88.33	KBBL	0.1173	KTOE/KBBL	10.36	KTOE
JET FUEL	44.70	KBBL	0.1262	KTOE/KBBL	5.64	KTOE
DIESEL OIL	72.21	KBBL	0.1334	KTOE/KBBL	9.63	KTOE
OTHER PETROLEUM PRODUCTS	14.68	KBBL	0.1527	KTOE/KBBL	2.24	KTOE
TOTAL CLOSING STOCKS					239.61	KTOE
STOCK CHANGE						
CRUDE OIL AND NGL/CONDENSATE	98.92	KBBL	0.1321	KTOE/KBBL	13.07	KTOE
CRUDE OIL	237.23	KBBL	0.1321	KTOE/KBBL	31.35	KTOE
NGL/CONDENSATE	-138.31	KBBL	0.1321	KTOE/KBBL	-18.28	KTOE
LPG	1.23	KBBL	0.0887	KTOE/KBBL	0.11	KTOE
MOGAS	-30.20	KBBL	0.1173	KTOE/KBBL	-3.54	KTOE
JET FUEL	11.29	KBBL	0.1262	KTOE/KBBL	1.42	KTOE
DIESEL OIL	3.81	KBBL	0.1334	KTOE/KBBL	0.51	KTOE
OTHER PETROLEUM PRODUCTS	5.60	KBBL	0.1558	KTOE/KBBL	0.87	KTOE
NATURAL GAS AND LNG	1,339.82	MMMBTU	0.0227	KTOE/MMMBTU	30.39	KTOE
TOTAL STOCK CHANGE					42.83	KTOE
IMPORTS						
JET FUEL	0.13	KBBL	0.1262	KTOE/KBBL	0.02	KTOE
AVGAS	0.08	KBBL	0.1173	KTOE/KBBL	0.01	KTOE
OTHER PETROLEUM PRODUCTS	86.70	KBBL	0.1543	KTOE/KBBL	13.38	KTOE
TOTAL IMPORTS					13.41	KTOE
EXPORTS						
CRUDE OIL AND NGL/CONDENSATE	72,925.14	KBBL	0.1321	KTOE/KBBL	9,636.69	KTOE
CRUDE OIL	71,815.77	KBBL	0.1321	KTOE/KBBL	9,490.09	KTOE
NGL/CONDENSATE	1,109.38	KBBL	0.1321	KTOE/KBBL	146.60	KTOE
MOGAS	3.28	KBBL	0.1173	KTOE/KBBL	0.38	KTOE
NATURAL GAS AND LNG	370,184.27	MMMBTU	0.0227	KTOE/MMMBTU	8,395.78	KTOE
LNG	370,184.27	MMMBTU	0.0227	KTOE/MMMBTU	8,395.78	KTOE
TOTAL EXPORTS					18,032.86	KTOE
INTERNATIONAL MARINE BUNKERS						
						KTOE
TOTAL PRIMARY ENERGY SUPPLY					3,797.60	KTOE
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
CRUDE OIL AND NGL/CONDENSATE	4,979.75	KBBL	0.1321	KTOE/KBBL	658.05	KTOE
CRUDE OIL	3,181.22	KBBL	0.1321	KTOE/KBBL	420.38	KTOE
NGL/CONDENSATE	1,798.53	KBBL	0.1321	KTOE/KBBL	237.67	KTOE
GAS PROCESSING						
NATURAL GAS	384,030.90	MMSCF	0.0244	KTOE/MMSCF	9,363.47	KTOE
POWER GENERATION (PUBLIC UTILITIES)						
DIESEL OIL	45.95	KBBL	0.1334	KTOE/KBBL	6.13	KTOE
NATURAL GAS AND LNG	40,872.81	MMSCF	0.0263	KTOE/MMSCF	1,073.24	KTOE
NATURAL GAS	40,872.81	MMSCF	0.0263	KTOE/MMSCF	1,073.24	KTOE
POWER GENERATION (AUTO PRODUCERS)						
NATURAL GAS AND LNG	39,055.69	MMMBTU	0.0227	KTOE/MMMBTU	885.78	KTOE
NATURAL GAS	39,055.69	MMMBTU	0.0227	KTOE/MMMBTU	885.78	KTOE
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
REFINING						
REFINERY GAS	509.13	KBBL	0.1359	KTOE/KBBL	69.18	KTOE
MOGAS	1,717.26	KBBL	0.1173	KTOE/KBBL	201.48	KTOE
JET FUEL	634.50	KBBL	0.1262	KTOE/KBBL	80.05	KTOE
DIESEL OIL	1,195.01	KBBL	0.1334	KTOE/KBBL	159.39	KTOE
FUEL OIL	511.39	KBBL	0.1422	KTOE/KBBL	72.73	KTOE
GAS RECOVERING						
LNG	382,822.78	MMMBTU	0.0227	KTOE/MMMBTU	8,682.42	KTOE
LPG	602.95	MMMBTU	0.0239	KTOE/MMMBTU	14.43	KTOE
POWER GENERATION (PUBLIC UTILITIES)						

Original Table (Energy Demand and Supply) of Brunei Darussalam in 2003 (Continued)

Year:2003

Brunei Darussalam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
THERMAL	2,813.96	GWH	0.0860	KTOE/GWH	242.00	KTOE
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	354.56	GWH	0.0860	KTOE/GWH	30.49	KTOE
GAS	354.56	GWH	0.0860	KTOE/GWH	30.49	KTOE
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
CRUDE OIL AND NGL/CONDENSATE	103.22	KBBL	0.1321	KTOE/KBBL	13.64	KTOE
REFINERY GAS	509.13	KBBL	0.1359	KTOE/KBBL	69.18	KTOE
MOGAS	42.07	KBBL	0.1173	KTOE/KBBL	4.94	KTOE
JET FUEL	19.89	KBBL	0.1262	KTOE/KBBL	2.51	KTOE
DIESEL OIL	174.07	KBBL	0.1334	KTOE/KBBL	23.22	KTOE
FUEL OIL	511.39	KBBL	0.1422	KTOE/KBBL	72.73	KTOE
NATURAL GAS AND LNG					294.02	KTOE
NATURAL GAS	11,197.41	MMSCF	0.0263	KTOE/MMSCF	294.02	KTOE
LNG	2,730.75	MMMBTU	0.0227	KTOE/MMMBTU	61.93	KTOE
ELECTRICITY	454.84	GWh	0.0860	KTOE/GWH	39.12	KTOE
TOTAL LOSSES AND OWN USE					519.35	KTOE
FINAL ENERGY CONSUMPTION TOTAL						
LPG	153.23	KBBL	0.0887	KTOE/KBBL	13.60	KTOE
MOGAS	1,690.46	KBBL	0.1173	KTOE/KBBL	198.33	KTOE
JET FUEL	632.00	KBBL	0.1262	KTOE/KBBL	79.73	KTOE
AVGAS	0.02	KBBL	0.1173	KTOE/KBBL	0.00	KTOE
DIESEL OIL	1,004.01	KBBL	0.1334	KTOE/KBBL	133.91	KTOE
NATURAL GAS AND LNG	1,042.22	MMSCF	0.0263	KTOE/MMSCF	27.37	KTOE
NATURAL GAS	1,042.22	MMSCF	0.0263	KTOE/MMSCF	27.37	KTOE
ELECTRICITY	2,713.68	GWh	0.0860	KTOE/GWH	233.38	KTOE
TOTAL					686.32	KTOE
AGRICULTURE						
DIESEL OIL	0.81	KBBL	0.1334	KTOE/KBBL	0.11	KTOE
TOTAL					0.11	KTOE
RESIDENTIAL COMMERCIAL						
LPG	153.23	KBBL	0.0887	KTOE/KBBL	13.60	KTOE
KEROSENE	6.79	KBBL	0.1262	KTOE/KBBL	0.86	KTOE
DIESEL OIL	1.39	KBBL	0.1334	KTOE/KBBL	0.19	KTOE
NATURAL GAS AND LNG	1,042.22	MMSCF	0.0263	KTOE/MMSCF	27.37	KTOE
NATURAL GAS	1,042.22	MMSCF	0.0263	KTOE/MMSCF	27.37	KTOE
ELECTRICITY	2,091.25	GWh	0.0860	KTOE/GWH	179.85	KTOE
TOTAL					221.85	KTOE
OTHERS						
TOTAL						KTOE
INDUSTRY						
KEROSENE	12.79	KBBL	0.1262	KTOE/KBBL	1.61	KTOE
DIESEL OIL	288.90	KBBL	0.1334	KTOE/KBBL	38.53	KTOE
ELECTRICITY	622.43	GWh	0.0860	KTOE/GWH	53.53	KTOE
TOTAL					93.68	KTOE
TRANSPORT						
MOGAS	1,690.46	KBBL	0.1173	KTOE/KBBL	198.33	KTOE
JET FUEL	612.42	KBBL	0.1262	KTOE/KBBL	77.26	KTOE
AVGAS	0.02	KBBL	0.1173	KTOE/KBBL	0.00	KTOE
DIESEL OIL	712.91	KBBL	0.1334	KTOE/KBBL	95.09	KTOE
TOTAL					370.69	KTOE
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	91.95	KBBL	0.1545	KTOE/KBBL	14.21	KTOE
TOTAL NON-ENERGY USE					14.21	KTOE

Original Table (Energy Demand and Supply) of Brunei Darussalam in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER		
COAL		
OIL		
GAS		
HYDRO POWER		
NUCLEAR POWER		
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Brunei Darussalam in 2003

Brunei Darussalam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
KEROSENE	12.79	KBBL	0.1328	KTOE/KBBL	1.70	KTOE
DIESEL OIL	288.90	KBBL	0.1404	KTOE/KBBL	40.56	KTOE
TOTAL					42.26	KTOE
1.2 CHEMICAL AND PETROCHEMICAL						
TOTAL						
1.3 NON-FERROUS METALS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS						
TOTAL						
1.5 PAPER, PULP AND PRINTING						
TOTAL						
1.6 OTHER INDUSTRIES						
TOTAL						
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	612.42	KBBL	0.1328	KTOE/KBBL	81.33	KTOE
AVGAS	0.02	KBBL	0.1235	KTOE/KBBL	0.00	KTOE
TOTAL					81.33	KTOE
2.2 ROAD						
MOGAS	1,690.46	KBBL	0.1235	KTOE/KBBL	208.77	KTOE
DIESEL OIL	712.91	KBBL	0.1404	KTOE/KBBL	100.09	KTOE
TOTAL					308.86	KTOE
2.3 RAIL						
TOTAL						
2.4 INTERNAL NAVIGATION						
TOTAL						
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
TOTAL						
3.2 RESIDENTIAL						
LPG	153.23	KBBL	0.0934	KTOE/KBBL	14.31	KTOE
KEROSENE	6.79	KBBL	0.1328	KTOE/KBBL	0.90	KTOE
DIESEL OIL	1.39	KBBL	0.1404	KTOE/KBBL	0.20	KTOE
NATURAL GAS	1,042.22	MMSCF	0.0292	KTOE/MMSCF	30.40	KTOE
TOTAL					45.81	KTOE

Original Table (Energy Price) of Brunei Darussalam in 2003
Year: 2003

Brunei Darussalam	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
NATURAL GAS (LNG)			
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
LPG			
ELECTRICITY (INDUSTRY)			
ELECTRICITY (COMMERCIAL)			
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS			
ULG Regular -RON 85	Liter	B\$0.36	
ULG RON 92	Liter	B\$0.52	
ULG -RON 97	Liter	B\$0.53	
KEROSENE	Liter	B\$0.198	
DIESEL OIL	Liter	B\$0.310	
LPG			
-12kg	cylinder	B\$10.00	
-44kg	cylinder	B\$34.56	
ELECTRICITY (RESIDENTIAL)			

Original Table (Quarterly) of Brunei Darussalam in 2004

Coal		Unit:			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	1st quarter	-	-	-	-
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	2nd quarter	-	-	-	-
	JUL.	-	-	-	-
	AUG.	-	-	-	-
	SEP.	-	-	-	-
	3rd quarter	-	-	-	-
	OCT.	-	-	-	-
	NOV.	-	-	-	-
	DEC.	-	-	-	-
	4th quarter	-	-	-	-
		-	-	-	-

Oil		Unit: m ³						
		Crude Oil			Petroleum Products			
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	1,079		1,061	-58			0
	FEB.	1,001		826	116			1
	MAR.	1,006		1,021	-96			1
	1st quarter	3,087		2,908	-38			3
	APR.	1,042		761	219			-5
	MAY.	1,024		1,053	-99			-1
	JUN.	935		909	-37			1
	2nd quarter	3,002		2,723	82			-4
	JUL.	988		841	78			1
	AUG.	1,081		1,038	-21			0
	SEP.	1,012		939	6			2
	3rd quarter	3,081		2,818	62			2
	OCT.	980		841	75			0
	NOV.	1,009		1,072	-129			-3
	DEC.	1,086		1,038	-22	0		3
	4th quarter	3,076		2,950	-76	0		0
		12,246	-	11,399	31	0	-	1

Original Table (Quarterly) of Brunei Darussalam in 2004 (Continued)

Natural Gas (or LNG)		Unit: km ³			
		Production	Imports	Exports	Stock Changes
2004	JAN.	1,089,606	-	963,461	n.a
	FEB.	1,025,149	-	907,024	n.a
	MAR.	1,087,497	-	956,170	n.a
	1st quarter	3,202,252	-	2,826,654	n.a
	APR.	1,057,495	-	911,536	n.a
	MAY.	899,956	-	748,642	n.a
	JUN.	870,321	-	731,463	n.a
	2nd quarter	2,827,772	-	2,391,641	n.a
	JUL.	1,105,350	-	963,236	n.a
	AUG.	1,126,789	-	974,661	n.a
	SEP.	977,889	-	828,937	n.a
	3rd quarter	3,210,028	-	2,766,834	n.a
	OCT.	703,001	-	565,230	n.a
	NOV.	1,079,434	-	934,980	n.a
	DEC.	1,083,940	-	942,945	n.a
	4th quarter	2,866,375	-	2,443,155	n.a
	12,106,427	-	10,428,284	-	

Electricity		Unit: GWh						
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	1st quarter	-	-	-	-	-	-	-
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	2nd quarter	-	-	-	-	-	-	-
	JUL.	-	-	-	-	-	-	-
	AUG.	-	-	-	-	-	-	-
	SEP.	-	-	-	-	-	-	-
	3rd quarter	-	-	-	-	-	-	-
	OCT.	-	-	-	-	-	-	-
	NOV.	-	-	-	-	-	-	-
	DEC.	-	-	-	-	-	-	-
	4th quarter	-	-	-	-	-	-	-

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.3 Canada

Energy Balance Table of Canada in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	32,890	-	153,298	-	-	-	-	-	-
2 Import	14,326	-	47,351	11,386	2,124	-	1,331	40	624
3 Export	-17,554	-	-85,775	-21,196	-7,332	-376	-399	-138	-7,393
4 International Marine Bunkers	-	-	-	-503	-	-	-	-	-
5 Stock Changes	2,123	-	-1,778	-633	39	-54	-91	-4	107
6 Total Primary Energy Supply	31,784	-	113,095	-10,948	-5,169	-430	840	-102	-6,662
7 Public Electricity	-27,196	-	-	-3,067	-	-	-	-	-91
8 Autoproducers of Electricity	-	-95	-	-265	-	-	-	-	-28
9 Gas Processing	-	622	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-114,572	107,758	36,400	4,040	4,444	1,642	31,796
11 Coal Transformation	-2,933	2,732	-	-	-	-	-	-	-
12 Loss & Own Use	-176	-	-	-10,555	-1	-3	-	-	-242
13 Discrepancy	0	-31	1,477	1,578	718	-57	-236	-1,177	276
14 Total Final Energy Consumption	1,479	3,229	-	84,502	31,948	3,550	5,048	362	25,048
15 Industry Sector	1,191	3,229	-	18,594	-	3,550	-	29	2,968
16 Transport Sector	-	-	-	50,154	31,948	-	5,048	-	11,483
17 Other Sector	23	-	-	15,754	-	-	-	333	10,596
18 Agriculture	-	-	-	2,309	-	-	-	8	2,061
19 Residential & Commercial	23	-	-	13,445	-	-	-	325	8,535
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	265	-	-	-	-	-	-	-	-

Energy Balance Table of Canada in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	33,023	-	141,080	-	-	-	-	-	-
2 Import	13,895	233	44,843	8,725	1,498	4	1,393	24	354
3 Export	-16,381	-92	-80,166	-20,769	-7,461	-482	-327	-128	-6,518
4 International Marine Bunkers	-	-	-	-882	-	-	-	-	-
5 Stock Changes	-1,594	27	-75	184	181	85	35	40	178
6 Total Primary Energy Supply	28,944	169	105,682	-12,742	-5,782	-393	1,102	-64	-5,986
7 Public Electricity	-22,117	-	-	-2,525	-	-	-	-	-86
8 Autoproducers of Electricity	-2	-87	-	-345	-	-	-	-	-30
9 Gas Processing	-	625	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-105,218	104,195	36,453	4,161	4,170	1,592	29,874
11 Coal Transformation	-3,414	2,707	-	-	-	-	-	-	-
12 Loss & Own Use	-90	-	-	-10,668	-1	-5	-	-	-229
13 Discrepancy	-2,020	-635	-465	2,923	779	-65	-176	-1,202	173
14 Total Final Energy Consumption	1,301	2,778	-	80,838	31,449	3,697	5,096	326	23,716
15 Industry Sector	1,163	2,778	-	18,057	-	3,697	-	16	2,821
16 Transport Sector	-	-	-	48,896	31,449	-	5,096	-	10,996
17 Other Sector	138	-	-	13,711	-	-	-	310	9,899
18 Agriculture	-	-	-	2,233	-	-	-	9	2,014
19 Residential & Commercial	138	-	-	11,478	-	-	-	301	7,885
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	174	-	-	-	-	-

Energy Balance Table of Canada in 2003 (Continued)

													ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13	
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	150,631	-	28,736	18,409	17	11,345	-	-	395,326	
3,480	0	-	3,788	7,949	-	-	-	-	-	2,103	-	83,114	
-2,758	-369	-	-2,430	-83,324	-	-	-	-	-	-2,679	-	-210,528	
-503	-	-	-	-	-	-	-	-	-	-	-	-503	
-24	0	-	-606	3,939	-	-	-	-	-	-	-	3,650	
194	-369	-	751	79,195	-	28,736	18,409	17	11,345	-576	-	271,059	
-2,976	-	-	-	-5,783	-	-26,160	-18,409	-10	-	44,759	-	-35,866	
-65	-	-171	-	-1,470	-	-2,576	-	-7	-1,255	4,083	861	-724	
-	-	-	-	-	-	-	-	-	-	-	-	622	
8,084	2,254	7,188	11,911	-	-	-	-	-	-	-	-	-6,814	
-	-	-	-	-	-	-	-	-	-	-	-	-201	
-821	-41	-7,017	-2,430	-14,129	-	-	-	-	-	-4,092	-	-28,952	
1,007	6,354	0	-5,307	-3,604	-	0	-	-	0	1,198	-	618	
5,423	8,198	-	4,925	54,208	-	-	-	-	10,090	45,372	861	199,740	
2,673	6,812	-	2,562	24,172	-	-	-	-	8,246	19,864	861	76,156	
1,101	265	-	308	3,854	-	-	-	-	-	359	-	54,367	
1,649	1,121	-	2,055	26,182	-	-	-	-	1,844	25,149	-	68,952	
66	127	-	47	485	-	-	-	-	-	861	-	3,655	
1,583	994	-	2,008	25,696	-	-	-	-	1,844	24,289	-	65,297	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	265	

Energy Balance Table of Canada in 2002 (Continued)

													ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13	
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	153,585	-	29,829	19,679	17	11,319	-	-	388,533	
1,900	246	-	3,306	3,028	-	-	-	-	-	1,383	-	72,108	
-2,944	-407	-	-2,501	-88,207	-	-	-	-	-	-3,105	-	-208,719	
-882	-	-	-	-	-	-	-	-	-	-	-	-882	
32	59	-	-427	6,869	-	-	-	-	-	-	-	5,412	
-1,894	-103	-	378	75,276	-	29,829	19,679	17	11,319	-1,722	-	256,452	
-2,439	-	-	-	-5,339	-	-27,166	-19,679	-10	-	47,245	-	-29,591	
-62	-	-253	-	-1,267	-	-2,663	-	-7	-757	4,086	840	-203	
-	-	-	-	-	-	-	-	-	-	-	-	625	
6,961	2,243	7,301	11,440	-	-	-	-	-	-	-	-	-1,023	
-	-	-	-	-	-	-	-	-	-	-	-	-707	
-747	-69	-7,048	-2,568	-12,601	-	-	-	-	-	-5,126	-	-28,484	
1,712	6,636	0	-4,934	-2,179	-	0	-	-	0	-384	-	-2,760	
3,531	8,707	-	4,316	53,890	-	-	-	-	10,562	44,099	840	194,309	
2,111	7,205	-	2,206	23,584	-	-	-	-	8,721	19,526	840	74,669	
755	281	-	319	4,603	-	-	-	-	-	345	-	53,843	
665	1,221	-	1,617	25,704	-	-	-	-	1,841	24,228	-	65,622	
34	144	-	32	481	-	-	-	-	-	805	-	3,519	
631	1,077	-	1,585	25,224	-	-	-	-	1,841	23,423	-	62,103	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	174	-	-	-	-	-	-	-	-	174	

Major Energy Indicators of Canada

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	194,245	187,601	193,954	189,766	200,853	211,834	221,776	205,972	210,895
Indigenous Production	207,701	226,691	240,481	238,048	251,930	271,378	274,114	277,423	288,499
Import	41,540	30,103	29,044	34,160	38,120	43,453	45,954	46,704	44,965
Export	-52,494	-66,884	-79,607	-77,248	-87,401	-103,220	-102,818	-115,117	-124,842
Final Energy Consumption	156,724	149,102	153,478	154,266	156,848	165,881	169,860	164,625	162,726
Industry	61,067	59,506	61,887	62,769	65,632	68,494	68,181	65,628	65,102
Transport	45,020	39,166	39,861	39,892	41,691	44,511	45,350	44,234	42,940
Residential & Commercial	48,190	47,640	48,844	48,691	46,733	49,783	52,904	51,299	51,167
Agriculture	2,431	2,775	2,866	2,902	2,780	2,966	3,306	3,291	3,365
Coal, Coal Products									
Primary Energy Supply	21,293	27,298	26,930	20,085	26,627	27,959	30,876	26,275	27,460
Indigenous Production	20,204	31,683	33,742	32,063	33,510	36,627	39,039	37,926	39,732
Import	10,808	12,776	10,141	9,444	10,077	11,861	9,960	9,635	8,460
Export	-10,203	-16,714	-18,217	-17,226	-17,823	-19,886	-22,600	-21,441	-23,493
Transformation Sector	-16,320	-22,074	-21,085	-19,366	-21,078	-22,881	-23,030	-17,720	-18,733
Power Generation	-14,797	-20,710	-19,781	-18,064	-19,886	-21,699	-21,926	-16,767	-17,770
Final Energy Consumption	5,657	5,350	5,350	5,128	5,068	5,173	4,946	3,982	4,120
Industry	5,554	5,250	5,243	5,023	4,978	5,099	4,892	3,931	4,070
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	103	100	107	105	91	74	55	50	50
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	97,222	74,792	73,335	72,576	76,846	80,224	82,607	79,502	80,787
Indigenous Production	85,309	85,246	86,990	87,074	91,626	96,410	94,101	99,742	100,010
Import	28,162	12,434	14,362	18,062	20,605	22,869	25,055	27,544	27,926
Export	-15,229	-22,196	-28,382	-32,352	-34,413	-39,699	-36,930	-47,110	-46,959
Transformation Sector	-96,888	-74,455	-73,426	-72,284	-76,842	-81,215	-83,993	-95,218	-93,561
Petroleum Refineries	-96,888	-74,455	-73,426	-72,284	-76,842	-81,215	-83,993	-95,218	-93,561
Petroleum Products									
Primary Energy Supply	-6,363	-3,152	-2,255	-1,072	-3,005	-3,506	-2,336	-5,694	-6,370
Import	2,314	4,690	4,271	6,017	7,065	7,875	9,198	7,476	7,796
Export	-6,408	-6,941	-7,946	-7,194	-8,317	-11,465	-10,578	-11,961	-13,502
Transformation Sector	85,932	67,049	66,242	66,466	69,934	73,694	75,263	76,702	74,592
Power Generation	-2,998	-1,419	-1,536	-1,349	-2,178	-2,584	-4,001	-3,468	-2,919
Petroleum Refineries	95,314	73,629	72,807	72,526	76,877	81,399	84,597	88,237	85,588
Final Energy Consumption	81,315	65,556	65,494	66,459	67,918	70,930	72,757	70,538	67,166
Industry	20,046	15,310	15,659	16,667	17,252	18,059	18,093	17,782	16,681
Transport	43,191	37,446	37,695	37,962	39,362	41,547	42,230	41,055	39,453
Residential & Commercial	16,583	11,135	10,416	10,089	9,566	9,427	10,258	9,480	8,830
Agriculture	1,478	1,650	1,705	1,729	1,727	1,770	2,056	2,049	2,052
Natural Gas, Town Gas									
Primary Energy Supply	45,889	46,670	49,902	47,994	48,811	53,623	57,791	54,323	55,044
Indigenous Production	63,643	64,407	70,240	65,804	71,439	82,414	87,332	88,158	93,198
Import	2	2	5	213	76	313	626	521	260
Export	-18,057	-17,469	-21,329	-17,128	-22,772	-29,242	-30,790	-33,044	-38,779
Transformation Sector	-6,704	-6,103	-6,697	-6,886	-7,168	-7,977	-10,075	-9,489	-9,014
Power Generation	-1,806	-1,452	-1,201	-1,283	-1,187	-1,431	-2,952	-1,720	-1,505
Final Energy Consumption	35,108	38,977	41,674	40,019	39,701	44,105	45,689	44,456	45,240
Industry	17,137	18,379	19,284	18,749	20,013	22,055	22,308	21,379	21,415
Transport	1,634	1,498	1,935	1,689	2,073	2,675	2,830	2,897	3,220
Residential & Commercial	16,058	18,723	20,056	19,186	17,223	18,929	20,077	19,681	20,104
Agriculture	279	377	399	394	392	447	473	499	502
Electricity									
Power Generation	32,245	37,364	39,245	40,068	42,437	43,102	42,564	41,089	43,320
Thermal	7,390	8,482	8,172	7,488	8,897	9,933	11,023	9,647	9,915
Hydro	21,769	24,647	26,163	26,799	27,274	26,447	25,062	25,524	26,515
Nuclear	3,085	4,235	4,910	5,781	6,267	6,722	6,479	5,919	6,890
Final Energy Consumption	26,440	30,513	31,915	33,357	34,685	36,417	37,236	37,231	37,674
Industry	12,035	13,772	14,718	15,109	15,924	16,124	15,802	15,726	15,953
Transport	196	222	232	241	256	289	289	282	268
Residential & Commercial	13,535	15,771	16,203	17,228	17,844	19,253	20,369	20,481	20,640
Agriculture	674	748	762	779	662	750	776	743	812

Major Energy Indicators of Canada (Continued)

												ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
215,706	228,638	237,485	241,214	247,305	248,700	244,072	254,909	263,536	262,263	256,452	271,059	
294,262	322,354	344,775	356,808	362,832	372,298	373,317	370,888	380,515	385,366	388,533	395,326	
44,850	44,791	46,420	45,959	52,441	59,461	62,434	68,062	75,626	82,768	72,108	83,114	
-128,447	-138,301	-152,852	-165,169	-168,874	-180,964	-190,179	-188,182	-199,769	-206,734	-208,719	-210,528	
165,775	168,855	174,999	178,449	185,088	187,389	183,349	188,585	191,576	185,239	194,309	199,740	
65,298	65,563	68,835	70,368	72,531	73,848	72,525	74,012	74,139	69,459	74,669	76,156	
44,700	45,304	47,425	48,701	49,990	51,462	52,777	54,455	53,801	53,061	53,843	54,367	
52,047	54,100	54,815	55,277	58,222	57,591	53,703	55,708	59,162	58,683	62,103	65,297	
3,578	3,726	3,752	3,912	4,139	4,280	4,127	4,212	4,242	3,869	3,519	3,655	
27,443	24,914	26,748	26,483	27,243	28,451	29,287	32,502	33,373	35,857	29,113	31,784	
35,361	37,527	39,417	40,845	41,583	43,021	39,971	36,051	34,245	35,501	33,023	32,890	
8,751	5,857	6,449	6,929	8,176	9,277	11,195	14,816	17,353	20,197	14,129	14,326	
-19,430	-19,650	-22,026	-23,591	-23,944	-25,322	-22,908	-19,970	-19,116	-18,646	-16,473	-17,554	
-19,143	-16,987	-17,701	-17,799	-18,281	-19,717	-21,085	-20,949	-22,820	-23,084	-22,378	-27,046	
-18,310	-16,237	-16,889	-17,070	-17,452	-18,884	-20,405	-20,729	-22,644	-22,785	-22,206	-27,291	
4,082	3,874	3,924	3,984	4,005	4,020	3,948	4,034	4,191	3,966	4,080	4,708	
4,036	3,831	3,886	3,931	3,955	3,974	3,908	3,996	4,138	3,929	3,942	4,420	
-	-	-	-	-	-	-	-	-	-	-	-	
45	41	38	53	50	45	41	38	53	37	138	23	
-	-	-	-	-	-	-	-	-	-	-	-	
80,677	91,478	92,381	93,611	97,222	100,225	99,582	102,814	104,864	108,403	105,682	113,095	
101,209	112,769	116,874	122,998	123,013	131,676	135,012	132,077	136,406	138,301	141,080	153,298	
26,364	30,441	32,029	30,541	35,347	39,429	39,825	42,543	47,457	47,930	44,843	47,351	
-47,332	-51,567	-55,541	-60,707	-61,042	-69,418	-76,318	-71,752	-78,680	-76,934	-80,166	-85,775	
-90,912	-92,140	-92,868	-93,085	-97,717	-99,740	-99,654	-101,729	-103,219	-106,554	-105,218	-114,572	
-90,912	-92,140	-92,868	-93,085	-97,717	-99,740	-99,654	-101,729	-103,219	-106,554	-105,218	-114,572	
-3,578	-6,131	-7,017	-5,603	-7,371	-7,794	-6,762	-6,265	-7,784	-10,828	-12,742	-10,948	
7,827	7,180	6,480	7,299	7,388	8,897	9,277	8,665	8,175	10,053	8,725	11,386	
-11,830	-12,590	-11,737	-12,408	-14,503	-15,310	-14,328	-14,763	-14,908	-19,206	-20,769	-21,196	
72,284	75,217	77,109	76,708	81,057	82,660	82,127	84,209	86,657	88,261	90,658	93,871	
-3,198	-2,372	-1,844	-2,133	-1,713	-2,489	-3,633	-2,952	-2,724	-3,540	-2,869	-3,332	
84,031	86,398	87,704	87,888	91,683	94,134	94,251	95,925	98,116	101,016	104,195	107,758	
68,279	69,055	71,525	72,588	75,263	77,587	77,202	79,555	77,356	77,700	80,838	84,502	
16,831	16,750	17,049	17,118	17,997	18,491	18,076	18,511	15,094	15,810	18,057	18,594	
40,234	40,597	42,498	43,310	44,416	45,772	47,024	48,705	48,655	48,339	48,896	50,154	
8,837	9,303	9,387	9,356	9,929	10,251	9,093	9,291	10,553	10,849	11,478	13,445	
2,233	2,245	2,420	2,613	2,716	2,864	2,792	2,852	2,836	2,535	2,233	2,309	
57,977	61,582	64,632	67,109	70,297	70,579	68,047	70,008	75,190	71,712	75,276	79,195	
102,353	112,905	123,966	130,252	135,086	137,291	142,063	144,428	148,899	152,457	153,585	150,631	
1,352	664	860	552	998	1,041	650	659	1,329	3,202	3,028	7,949	
-47,143	-51,488	-59,169	-64,727	-65,616	-67,025	-72,784	-77,837	-82,682	-88,573	-88,207	-83,324	
-9,840	-10,621	-12,038	-13,017	-12,871	-13,736	-15,339	-16,079	-17,701	-19,194	-19,207	-21,382	
-2,491	-2,931	-3,041	-3,912	-3,327	-4,103	-5,044	-4,607	-6,326	-7,181	-6,606	-7,254	
46,900	48,885	50,509	51,763	55,114	54,567	50,941	52,126	55,533	49,861	53,890	54,208	
21,336	21,749	22,784	23,469	24,630	25,162	23,820	23,622	26,124	21,736	23,584	24,172	
4,173	4,395	4,610	5,056	5,245	5,324	5,307	5,319	4,758	4,351	4,603	3,854	
20,851	22,069	22,607	22,745	24,661	23,514	21,303	22,664	24,065	23,272	25,224	25,696	
540	671	509	492	578	566	511	518	586	501	481	485	
44,350	45,301	47,350	47,679	48,815	49,005	48,075	49,051	52,038	50,529	51,330	48,842	
10,600	9,851	10,233	10,849	10,701	12,148	13,728	13,668	14,961	15,289	15,007	14,031	
27,213	27,830	28,370	28,894	30,590	30,163	28,547	29,421	30,818	28,645	29,829	28,736	
6,536	7,620	8,747	7,937	7,525	6,694	5,801	5,961	6,260	6,595	6,494	6,075	
38,064	38,863	39,387	40,172	40,817	41,347	41,069	41,901	43,221	43,093	44,099	45,372	
16,091	16,600	17,029	17,642	17,806	18,137	18,347	18,743	19,342	19,202	19,526	19,864	
294	313	318	334	330	365	446	431	389	370	345	359	
20,866	21,141	21,216	21,388	21,836	21,993	21,452	21,885	22,656	22,688	23,423	24,289	
805	810	824	807	846	850	823	842	820	833	805	861	

Major Economic Indicators of Canada

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	24.59	25.70	25.94	26.20	26.55	26.90	27.38	27.79
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	407.26	443.26	464.44	475.58	495.72	520.39	533.45	534.39
Real Term (Billions of 1995 Price and 1995 PPP)	455.78	496.08	519.78	532.25	305.78	582.40	597.02	598.07
Nominal (Billions of Current USD)	265.27	342.33	350.67	363.37	415.32	490.56	547.29	574.20
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	16,560	17,246	17,903	18,149	18,671	19,349	19,484	19,229
Real Term (1995 Price and 1995 PPP)	18,533	19,301	20,036	20,312	20,896	21,654	21,806	21,520
Nominal (Current USD)	10,786	13,319	13,517	13,867	15,643	18,240	19,989	20,662
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	310.16	443.34	478.83	504.90	550.71	603.74	647.98	669.97
Household Final Consumption Expenditure, etc.	164.82	238.93	260.83	281.97	304.95	330.09	356.81	376.36
General Government Final Consumption Expenditure	66.82	97.74	105.71	111.03	117.50	127.49	138.04	150.99
Gross Fixed Capital Formation	72.94	88.24	98.09	105.51	120.90	136.66	149.06	144.86
Stock Change	-0.68	3.97	3.48	2.63	2.56	3.49	4.09	-2.68
Exports of Goods and Services	87.69	127.66	136.22	141.56	148.82	162.80	167.74	174.44
Imports of Goods and Services	82.17	112.42	125.59	137.23	142.72	158.58	168.14	174.02
Real GDP & its Components (Billions of 1995 CAD) *1								
Gross Domestic Product	605.46	658.99	690.48	707.05	736.99	773.65	793.08	794.48
Household Final Consumption Expenditure, etc.	351.03	370.94	389.29	403.59	419.92	437.88	452.30	457.31
General Government Final Consumption Expenditure	143.44	152.64	159.21	162.09	164.28	171.74	176.52	182.77
Gross Fixed Capital Formation	116.62	112.45	122.28	127.95	141.36	154.56	163.24	156.84
Stock Change	-8.82	-0.09	-0.49	-1.43	-0.43	-0.16	2.10	-3.95
Exports of Goods and Services	134.15	168.64	176.85	184.59	190.26	207.57	209.28	219.26
Imports of Goods and Services	132.65	146.99	159.34	170.85	179.96	204.40	216.35	220.75
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	2.7	2.7	2.6	2.8	2.7	2.5	2.6	2.7
Industry	33.6	32.8	33.0	32.5	32.5	32.7	32.2	31.4
Services, etc.	60.9	60.7	60.7	61.6	61.4	60.6	60.9	61.7
Industrial Production Index (2000=100) *2	#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.	67.734	90.272	90.950	90.329	98.168	117.105	121.832	127.629
Imports, c.i.f.	62.544	77.789	80.640	85.494	92.593	112.711	119.792	123.244
Balance of Payments (Billions of Current USD) *2								
Trade Balance	7.939	15.611	11.867	7.182	9.170	8.849	6.560	9.513
Current Account	-6.088	-1.368	-5.734	-11.157	-13.430	-14.818	-21.769	-19.764
Overall Balance	-0.536	-1.809	-3.270	-0.419	3.313	8.150	0.693	1.139
Foreign Exchange Rate (CAD/USD) *1	1.1692	1.2951	1.3655	1.3895	1.3260	1.2307	1.1840	1.1668
Purchasing Power Parity (CAD/International Dollar) *1	1.1708	1.2232	1.2240	1.2288	1.2549	1.2652	1.2738	1.2632
Price Indices								
GDP Deflator (2000=100) *3	51.2	67.3	69.3	71.4	74.7	78.0	81.7	84.3
Industry Selling Price Index (2000=100) *2	54.5	69.3	71.2	71.9	73.9	77.0	78.6	78.8
Consumer Price Index (2000=100) *2	46.2	63.5	66.0	68.8	71.8	74.7	78.4	82.1
Growth Rate (%) *3								
Real GDP	2.14	5.87	4.78	2.40	4.23	4.98	2.51	0.18
Population	1.30	0.97	0.93	1.01	1.32	1.30	1.80	1.50
Price								
Industry Selling Price Index	13.4	4.5	2.7	0.9	2.8	4.3	2.0	0.3
Consumer Price Index	10.2	4.3	4.0	4.2	4.4	4.0	5.0	4.8

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

Major Economic Indicators of Canada (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
28.17	28.52	28.83	29.11	29.35	29.67	29.99	30.25	30.50	30.77	31.08	31.36	31.63
523.00	527.57	539.94	565.92	581.66	591.03	616.12	641.26	677.24	713.03	726.60	750.32	765.33
585.32	590.44	604.28	633.35	650.97	661.46	689.53	717.67	757.93	798.00	813.18	839.73	856.53
588.84	570.28	554.69	555.84	581.66	604.37	627.60	606.92	651.20	713.79	704.71	724.84	856.55
18,565	18,499	18,726	19,439	19,816	19,919	20,546	21,200	22,205	23,173	23,377	23,925	24,196
20,777	20,703	20,958	21,756	22,177	22,292	22,994	23,726	24,851	25,934	26,163	26,775	27,080
20,902	19,996	19,238	19,093	19,816	20,368	20,929	20,065	21,351	23,198	22,673	23,112	27,080
674.64	689.31	715.59	759.08	798.30	824.04	868.98	900.35	967.51	1,060.06	1,091.42	1,137.51	1,200.07
388.52	400.93	417.64	435.04	449.89	468.59	498.07	518.10	547.19	582.18	608.55	640.22	N.A.
161.78	168.33	170.66	171.09	171.95	170.56	171.18	178.66	185.40	197.15	206.86	218.22	N.A.
134.41	131.23	131.07	144.96	143.00	149.94	174.84	181.84	194.47	207.36	219.85	227.19	N.A.
-5.67	-6.56	-1.30	0.53	9.03	2.27	8.18	4.71	4.99	10.79	-5.22	2.83	N.A.
171.00	188.59	218.44	260.92	301.13	319.97	347.13	377.38	422.67	488.59	480.41	472.62	N.A.
175.40	191.67	218.96	252.29	275.87	286.65	330.35	359.94	387.30	427.32	417.91	423.11	N.A.
777.54	784.34	802.73	841.34	864.76	878.68	915.98	953.36	1,006.84	1,060.06	1,080.23	1,115.50	1,137.81
449.84	456.82	464.99	478.86	488.52	500.97	524.43	538.98	559.59	582.18	597.55	617.49	N.A.
188.14	189.99	190.02	187.65	186.57	184.27	182.46	188.27	192.26	197.15	204.47	210.68	N.A.
148.34	144.28	141.37	151.95	148.73	155.25	178.87	183.23	196.51	207.36	216.22	219.01	N.A.
-7.37	-8.00	-2.51	0.27	7.62	2.23	7.00	5.08	5.64	10.79	-1.75	4.98	N.A.
223.21	239.33	265.43	299.30	324.62	343.01	371.57	405.25	448.97	488.59	473.24	472.93	N.A.
226.22	236.85	254.36	274.86	290.64	305.40	349.09	366.88	395.49	427.32	405.72	408.41	N.A.
2.6	2.4	2.5	2.5	2.4	2.4	2.2	2.3	2.3	2.1	1.9	1.8	N.A.
30.6	30.2	30.4	30.6	30.8	30.7	31.0	30.8	30.8	31.4	30.4	30.0	N.A.
63.2	63.7	63.6	63.1	63.0	62.8	62.6	62.6	62.5	62.2	63.1	63.5	N.A.
#N/A	#N/A	#N/A	#N/A	78.6	79.5	84.0	86.9	92.1	100.0	96.0	97.6	98.6
127.163	134.435	145.178	165.376	192.197	201.633	214.422	214.327	238.446	276.635	259.858	252.394	272.739
124.782	129.262	139.035	155.072	168.426	175.158	200.873	206.066	220.183	244.786	227.291	227.499	245.021
6.126	7.381	10.137	14.834	25.855	31.091	18.565	15.922	28.292	45.047	45.717	36.488	41.076
-22.345	-21.160	-21.823	-13.024	-4.328	3.378	-8.233	-7.839	1.765	19.622	16.281	13.456	13.360
-1.848	-4.786	0.904	-0.392	2.711	5.498	-2.393	4.996	5.933	3.720	2.172	-0.185	-3.255
1.1457	1.2087	1.2901	1.3656	1.3724	1.3635	1.3846	1.4835	1.4857	1.4851	1.5488	1.5693	1.4011
1.2592	1.2429	1.2345	1.2214	1.2263	1.2239	1.2211	1.2003	1.2028	1.2357	1.2180	1.2145	1.2368
86.8	87.9	89.1	90.2	92.3	93.8	94.9	94.4	96.1	100.0	101.0	102.0	105.5
78.0	78.4	81.2	86.1	92.5	92.9	93.7	93.7	95.2	100.0	101.1	101.2	100.0
86.7	88.1	89.7	89.8	91.8	93.2	94.7	95.7	97.3	100.0	102.5	104.8	107.7
-2.13	0.87	2.35	4.81	2.78	1.61	4.24	4.08	5.61	5.29	1.90	3.26	2.00
1.37	1.23	1.10	0.97	0.83	1.08	1.06	0.87	0.83	0.89	1.01	0.90	0.85
-1.0	0.5	3.6	6.1	7.4	0.4	0.9	-0.1	1.6	5.1	1.1	0.1	-1.1
5.6	1.5	1.8	0.2	2.2	1.6	1.6	1.0	1.7	2.7	2.5	2.2	2.8

Original Table (Energy Demand and Supply) of Canada in 2003

Year:2003

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	62,645.81	kilotonnes	0.0220	Petajoules/kilotonnes	1,377.05	Petajoules
CRUDE OIL AND NGL	188,221.67	1000m*3	0.0341	Petajoules/1000m*3	6,418.26	Petajoules
NATURAL GAS	184,088.06	1000000m*3	0.0343	Petajoules/1000000m*3	6,306.61	Petajoules
HYDRO POWER	337,541.41	GWh	0.0036	Petajoules/GWh	1,203.12	Petajoules
NUCLEAR POWER	226,944.50	GWh	0.0034	Petajoules/GWh	770.75	Petajoules
OTHER POWER(WIND,TIDE,ETC)	163.00	GWh	0.0036	Petajoules/GWh	0.59	Petajoules
SOLAR	37.00	GWh	0.0036	Petajoules/GWh	0.13	Petajoules
OTHER COMMERCIAL	40,362.00	kilotonnes	0.0118	Petajoules/kilotonnes	474.99	Petajoules
TOTAL PRODUCTION					16,551.50	Petajoules
OPENING STOCKS						
CRUDE OIL AND NGL	10,863.16	1000m*3	0.0327	Petajoules/1000m*3	355.55	Petajoules
LPG	173.68	1000m*3	0.0261	Petajoules/1000m*3	4.53	Petajoules
NAPHTHA	346.39	1000m*3	0.0334	Petajoules/1000m*3	11.57	Petajoules
MOGAS	2,475.31	1000m*3	0.0329	Petajoules/1000m*3	81.50	Petajoules
JET FUEL	346.00	1000m*3	0.0346	Petajoules/1000m*3	11.96	Petajoules
KEROSENE	121.25	1000m*3	0.0358	Petajoules/1000m*3	4.34	Petajoules
DIESEL OIL	2,593.29	1000m*3	0.0367	Petajoules/1000m*3	95.29	Petajoules
FUEL OIL	522.40	1000m*3	0.0396	Petajoules/1000m*3	20.71	Petajoules
OTHER PETROLEUM PRODUCTS	2,875.64	1000m*3	0.0373	Petajoules/1000m*3	107.30	Petajoules
TOTAL OPENING STOCKS					692.75	Petajoules
CLOSING STOCKS						
CRUDE OIL AND NGL	13,412.31	1000m*3	0.0321	Petajoules/1000m*3	429.99	Petajoules
LPG	172.57	1000m*3	0.0261	Petajoules/1000m*3	4.50	Petajoules
NAPHTHA	413.98	1000m*3	0.0334	Petajoules/1000m*3	13.83	Petajoules
MOGAS	2,425.66	1000m*3	0.0329	Petajoules/1000m*3	79.87	Petajoules
JET FUEL	457.02	1000m*3	0.0345	Petajoules/1000m*3	15.79	Petajoules
KEROSENE	125.58	1000m*3	0.0358	Petajoules/1000m*3	4.50	Petajoules
DIESEL OIL	2,471.02	1000m*3	0.0367	Petajoules/1000m*3	90.80	Petajoules
FUEL OIL	548.23	1000m*3	0.0396	Petajoules/1000m*3	21.73	Petajoules
OTHER PETROLEUM PRODUCTS	3,536.72	1000m*3	0.0375	Petajoules/1000m*3	132.69	Petajoules
TOTAL CLOSING STOCKS					793.70	Petajoules
STOCK CHANGE						
COAL	4,042.82	kilotonnes	0.0220	Petajoules/kilotonnes	88.87	Petajoules
CRUDE OIL AND NGL	-2,549.15	1000m*3	0.0292	Petajoules/1000m*3	-74.44	Petajoules
LPG	1.11	1000m*3	0.0180	Petajoules/1000m*3	0.02	Petajoules
NAPHTHA	-67.58	1000m*3	0.0334	Petajoules/1000m*3	-2.26	Petajoules
MOGAS	49.65	1000m*3	0.0328	Petajoules/1000m*3	1.63	Petajoules
JET FUEL	-111.02	1000m*3	0.0345	Petajoules/1000m*3	-3.83	Petajoules
KEROSENE	-4.34	1000m*3	0.0369	Petajoules/1000m*3	-0.16	Petajoules
DIESEL OIL	122.26	1000m*3	0.0367	Petajoules/1000m*3	4.49	Petajoules
FUEL OIL	-25.83	1000m*3	0.0395	Petajoules/1000m*3	-1.02	Petajoules
OTHER PETROLEUM PRODUCTS	-661.09	1000m*3	0.0384	Petajoules/1000m*3	-25.39	Petajoules
NATURAL GAS	4,796.94	1000000m*3	0.0344	Petajoules/1000000m*3	164.92	Petajoules
TOTAL STOCK CHANGE					152.83	Petajoules
IMPORTS						
COAL	27,285.93	kilotonnes	0.0220	Petajoules/kilotonnes	599.78	Petajoules
CRUDE OIL AND NGL	53,881.30	1000m*3	0.0368	Petajoules/1000m*3	1,982.49	Petajoules
LPG	0.48	1000m*3	0.0208	Petajoules/1000m*3	0.01	Petajoules
MOGAS	2,700.94	1000m*3	0.0329	Petajoules/1000m*3	88.93	Petajoules
JET FUEL	1,612.24	1000m*3	0.0346	Petajoules/1000m*3	55.71	Petajoules
KEROSENE	46.49	1000m*3	0.0357	Petajoules/1000m*3	1.66	Petajoules
DIESEL OIL	710.58	1000m*3	0.0367	Petajoules/1000m*3	26.11	Petajoules
FUEL OIL	3,674.83	1000m*3	0.0396	Petajoules/1000m*3	145.68	Petajoules
OTHER PETROLEUM PRODUCTS	4,116.12	1000m*3	0.0385	Petajoules/1000m*3	158.59	Petajoules
NATURAL GAS	9,680.47	1000000m*3	0.0344	Petajoules/1000000m*3	332.81	Petajoules
ELECTRICITY	24,455.00	GWh	0.0036	Petajoules/GWh	88.04	Petajoules
TOTAL IMPORTS					3,479.81	Petajoules
EXPORTS						
COAL	33,434.89	kilotonnes	0.0220	Petajoules/kilotonnes	734.95	Petajoules
CRUDE OIL AND NGL	100,980.23	1000m*3	0.0356	Petajoules/1000m*3	3,591.23	Petajoules
LPG	636.61	1000m*3	0.0243	Petajoules/1000m*3	15.46	Petajoules
NAPHTHA	471.40	1000m*3	0.0334	Petajoules/1000m*3	15.75	Petajoules
MOGAS	9,323.06	1000m*3	0.0329	Petajoules/1000m*3	306.98	Petajoules
JET FUEL	483.79	1000m*3	0.0346	Petajoules/1000m*3	16.72	Petajoules
KEROSENE	161.48	1000m*3	0.0358	Petajoules/1000m*3	5.78	Petajoules
DIESEL OIL	8,423.17	1000m*3	0.0367	Petajoules/1000m*3	309.52	Petajoules
FUEL OIL	2,912.83	1000m*3	0.0396	Petajoules/1000m*3	115.47	Petajoules
OTHER PETROLEUM PRODUCTS	2,644.50	1000m*3	0.0385	Petajoules/1000m*3	101.76	Petajoules
NATURAL GAS	101,472.23	1000000m*3	0.0344	Petajoules/1000000m*3	3,488.61	Petajoules
ELECTRICITY	31,151.67	GWh	0.0036	Petajoules/GWh	112.15	Petajoules
TOTAL EXPORTS					8,814.38	Petajoules
INTERNATIONAL MARINE BUNKERS						
	573.68	1000m*3	0.0367	Petajoules/1000m*3	21.08	Petajoules
TOTAL PRIMARY ENERGY SUPPLY						
					11,348.68	Petajoules
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	5,161.61	kilotonnes	0.0238	Petajoules/kilotonnes	122.81	Petajoules
	5,161.61	kilotonnes	0.0238	Petajoules/kilotonnes	122.81	Petajoules
REFINING						
CRUDE OIL AND NGL	122,858.45	1000m*3	0.0364	Petajoules/1000m*3	4,469.66	Petajoules
OTHERS(FEED-STOCK)	8,743.32	1000m*3	0.0374	Petajoules/1000m*3	327.26	Petajoules

Original Table (Energy Demand and Supply) of Canada in 2003 (Continued)

Year:2003

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
GAS PROCESSING						
POWER GENERATION (NATIONAL,PUBLIC UTILITIES)						
COAL	44,312.00	kilotonnes	0.0257	Petajoules/kilotonnes	1,138.65	Petajoules
DIESEL OIL	103.93	1000m*3	0.0368	Petajoules/1000m*3	3.82	Petajoules
FUEL OIL	3,142.63	1000m*3	0.0396	Petajoules/1000m*3	124.58	Petajoules
NATURAL GAS	7,042.83	1000000m*3	0.0344	Petajoules/1000000m*3	242.13	Petajoules
HYDRO POWER	307,279.28	GWh	0.0036	Petajoules/GWh	1,095.25	Petajoules
NUCLEAR POWER	226,944.50	GWh	0.0034	Petajoules/GWh	770.75	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	120.00	GWh	0.0036	Petajoules/GWh	0.43	Petajoules
POWER GENERATION (PRIVATE, AUTO PRODUCERS)						
COKE OVEN GAS	114.99	1000000m*3	0.0177	Petajoules/1000000m*3	2.03	Petajoules
BLAST FURNACE GAS	109.24	1000000m*3	0.0177	Petajoules/1000000m*3	1.93	Petajoules
REFINERY GAS	181.04	1000m*3	0.0397	Petajoules/1000m*3	7.18	Petajoules
DIESEL OIL	32.47	1000m*3	0.0366	Petajoules/1000m*3	1.19	Petajoules
FUEL OIL	68.92	1000m*3	0.0396	Petajoules/1000m*3	2.73	Petajoules
NATURAL GAS	1,790.71	1000000m*3	0.0344	Petajoules/1000000m*3	61.56	Petajoules
HYDRO POWER	30,262.11	GWh	0.0036	Petajoules/GWh	107.86	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	80.00	GWh	0.0036	Petajoules/GWh	0.29	Petajoules
OTHERS(WASTE WOOD, ETC.)	4,465.02	kilotonnes	0.0118	Petajoules/kilotonnes	52.55	Petajoules
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	3,174.95	kilotonnes	0.0274	Petajoules/kilotonnes	140.43	Petajoules
COKE OVEN GAS	1,550.73	1000000m*3	0.0177	Petajoules/1000000m*3	86.96	Petajoules
GAS RECOVERING						
BLAST FURNACE GAS	1,473.19	kilotonnes	0.0177	Petajoules/kilotonnes	26.05	Petajoules
REFINING						
REFINERY GAS	7,591.61	1000m*3	0.0396	Petajoules/1000m*3	300.96	Petajoules
LPG	3,724.79	1000m*3	0.0253	Petajoules/1000m*3	94.36	Petajoules
NAPHTHA	5,062.25	1000m*3	0.0334	Petajoules/1000m*3	169.14	Petajoules
MOGAS	46,284.54	1000m*3	0.0329	Petajoules/1000m*3	1,524.01	Petajoules
JET FUEL	5,451.35	1000m*3	0.0341	Petajoules/1000m*3	186.07	Petajoules
KEROSENE	1,920.36	1000m*3	0.0358	Petajoules/1000m*3	68.74	Petajoules
DIESEL OIL	36,227.87	1000m*3	0.0367	Petajoules/1000m*3	1,331.23	Petajoules
FUEL OIL	8,537.17	1000m*3	0.0396	Petajoules/1000m*3	338.44	Petajoules
OTHER PETROLEUM PRODUCTS	12,551.84	1000m*3	0.0397	Petajoules/1000m*3	498.68	Petajoules
GAS PROCESSING						
POWER GENERATION (NATIONAL,PUBLIC UTILITIES)						
THERMAL	155,719.86	GWh	0.0034	Petajoules/GWh	523.92	Petajoules
HYDRO POWER	307,279.31	GWh	0.0036	Petajoules/GWh	1,095.25	Petajoules
NUCLEAR POWER	74,891.69	GWh	0.0034	Petajoules/GWh	254.35	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	120.00	GWh	0.0036	Petajoules/GWh	0.43	Petajoules
POWER GENERATION (PRIVATE, AUTO PRODUCERS)						
THERMAL	18,669.93	GWh	0.0034	Petajoules/GWh	62.81	Petajoules
HYDRO POWER	30,262.11	GWh	0.0036	Petajoules/GWh	107.86	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	80.00	GWh	0.0036	Petajoules/GWh	0.29	Petajoules
HEAT	13,102.91	kilotonnes	0.0027	Petajoules/kilotonnes	36.03	Petajoules
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COAL	275.25	kilotonnes	0.0268	Petajoules/kilotonnes	7.38	Petajoules
REFINERY GAS	7,410.57	1000m*3	0.0396	Petajoules/1000m*3	293.78	Petajoules
LPG	70.98	1000m*3	0.0242	Petajoules/1000m*3	1.72	Petajoules
NAPHTHA	3.30	1000m*3	0.0333	Petajoules/1000m*3	0.11	Petajoules
MOGAS	1.41	1000m*3	0.0355	Petajoules/1000m*3	0.05	Petajoules
DIESEL OIL	276.06	1000m*3	0.0367	Petajoules/1000m*3	10.14	Petajoules
FUEL OIL	867.17	1000m*3	0.0396	Petajoules/1000m*3	34.38	Petajoules
OTHER PETROLEUM PRODUCTS	2,527.53	1000m*3	0.0403	Petajoules/1000m*3	101.75	Petajoules
NATURAL GAS	17,692.50	1000000m*3	0.0334	Petajoules/1000000m*3	591.54	Petajoules
ELECTRICITY	59,633.52	GWh	0.0029	Petajoules/GWh	171.33	Petajoules
TOTAL LOSSES AND OWN USE					1,212.18	Petajoules
FINAL ENERGY CONSUMPTION TOTAL						
COAL	1,897.19	kilotonnes	0.0268	Petajoules/kilotonnes	50.84	Petajoules
COKE	3,174.95	kilotonnes	0.0274	Petajoules/kilotonnes	86.96	Petajoules
COKE OVEN GAS	1,435.79	1000000m*3	0.0177	Petajoules/1000000m*3	25.38	Petajoules
BLAST FURNACE GAS	1,292.21	1000000m*3	0.0177	Petajoules/1000000m*3	22.85	Petajoules
LPG	16,958.45	1000m*3	0.0202	Petajoules/1000m*3	343.22	Petajoules
NAPHTHA	4,448.80	1000m*3	0.0334	Petajoules/1000m*3	148.64	Petajoules
MOGAS	40,623.52	1000m*3	0.0329	Petajoules/1000m*3	1,337.61	Petajoules
JET FUEL	6,192.07	1000m*3	0.0341	Petajoules/1000m*3	211.36	Petajoules
KEROSENE	423.86	1000m*3	0.0358	Petajoules/1000m*3	15.17	Petajoules
DIESEL OIL	28,539.19	1000m*3	0.0367	Petajoules/1000m*3	1,048.70	Petajoules
FUEL OIL	5,726.74	1000m*3	0.0396	Petajoules/1000m*3	227.03	Petajoules
OTHER PETROLEUM PRODUCTS	5,311.87	1000m*3	0.0388	Petajoules/1000m*3	206.18	Petajoules
NATURAL GAS	66,014.81	1000000m*3	0.0344	Petajoules/1000000m*3	2,269.59	Petajoules
SOLAR	157.00	GWh	0.0036	Petajoules/GWh	0.57	Petajoules
OTHER COMMERCIAL	35,896.97	kilotonnes	0.0118	Petajoules/kilotonnes	422.45	Petajoules
ELECTRICITY	527,514.19	GWh	0.0036	Petajoules/GWh	1,899.05	Petajoules
HEAT	13,102.91	kilotonnes	0.0027	Petajoules/kilotonnes	36.03	Petajoules
TOTAL					8,351.63	Petajoules
AGRICULTURE						
LPG	219.66	1000m*3	0.0243	Petajoules/1000m*3	5.33	Petajoules
KEROSENE	9.50	1000m*3	0.0358	Petajoules/1000m*3	0.34	Petajoules
DIESEL OIL	2,347.85	1000m*3	0.0367	Petajoules/1000m*3	86.27	Petajoules

Original Table (Energy Demand and Supply) of Canada in 2003 (Continued)

Year:2003

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	69.90	1000m*3	0.0396	Petajoules/1000m*3	2.77	Petajoules
OTHER PETROLEUM PRODUCTS	52.80	1000m*3	0.0371	Petajoules/1000m*3	1.96	Petajoules
NATURAL GAS	591.13	1000000m*3	0.0344	Petajoules/1000000m*3	20.32	Petajoules
ELECTRICITY	10,012.50	GWh	0.0036	Petajoules/GWh	36.04	Petajoules
TOTAL					153.03	Petajoules
RESIDENTIAL COMMERCIAL						
COAL	35.94	kilotonnes	0.0268	Petajoules/kilotonnes	0.96	Petajoules
LPG	1,715.04	1000m*3	0.0243	Petajoules/1000m*3	41.60	Petajoules
KEROSENE	380.02	1000m*3	0.0358	Petajoules/1000m*3	13.60	Petajoules
DIESEL OIL	9,725.13	1000m*3	0.0367	Petajoules/1000m*3	357.36	Petajoules
FUEL OIL	1,671.84	1000m*3	0.0396	Petajoules/1000m*3	66.28	Petajoules
OTHER PETROLEUM PRODUCTS	2,206.60	1000m*3	0.0381	Petajoules/1000m*3	84.06	Petajoules
NATURAL GAS	31,292.88	1000000m*3	0.0344	Petajoules/1000000m*3	1,075.85	Petajoules
SOLAR	120.00	GWh	0.0036	Petajoules/GWh	0.43	Petajoules
OTHER COMMERCIAL	5,362.00	kilotonnes	0.0144	Petajoules/kilotonnes	77.21	Petajoules
ELECTRICITY	282,356.38	GWh	0.0036	Petajoules/GWh	1,016.48	Petajoules
TOTAL					2,733.84	Petajoules
OTHERS						
TOTAL						Petajoules
INDUSTRY						
COAL	1,861.26	kilotonnes	0.0268	Petajoules/kilotonnes	49.88	Petajoules
COKE	3,174.95	kilotonnes	0.0274	Petajoules/kilotonnes	86.96	Petajoules
COKE OVEN GAS	1,435.79	1000000m*3	0.0177	Petajoules/1000000m*3	25.38	Petajoules
BLAST FURNACE GAS	1,292.21	1000000m*3	0.0177	Petajoules/1000000m*3	22.85	Petajoules
LPG	14,565.50	1000m*3	0.0196	Petajoules/1000m*3	285.19	Petajoules
NAPHTHA	4,448.80	1000m*3	0.0334	Petajoules/1000m*3	148.64	Petajoules
KEROSENE	34.34	1000m*3	0.0358	Petajoules/1000m*3	1.23	Petajoules
DIESEL OIL	3,382.11	1000m*3	0.0367	Petajoules/1000m*3	124.28	Petajoules
FUEL OIL	2,822.77	1000m*3	0.0396	Petajoules/1000m*3	111.90	Petajoules
OTHER PETROLEUM PRODUCTS	2,692.01	1000m*3	0.0398	Petajoules/1000m*3	107.25	Petajoules
NATURAL GAS	29,436.86	1000000m*3	0.0344	Petajoules/1000000m*3	1,012.04	Petajoules
SOLAR	37.00	GWh	0.0036	Petajoules/GWh	0.13	Petajoules
OTHER COMMERCIAL	30,534.97	kilotonnes	0.0113	Petajoules/kilotonnes	345.24	Petajoules
ELECTRICITY	230,976.67	GWh	0.0036	Petajoules/GWh	831.52	Petajoules
HEAT	13,102.91	kilotonnes	0.0027	Petajoules/kilotonnes	36.03	Petajoules
TOTAL					3,188.52	Petajoules
TRANSPORT						
LPG	458.25	1000m*3	0.0242	Petajoules/1000m*3	11.11	Petajoules
MOGAS	40,623.52	1000m*3	0.0329	Petajoules/1000m*3	1,337.61	Petajoules
JET FUEL	6,192.07	1000m*3	0.0341	Petajoules/1000m*3	211.36	Petajoules
DIESEL OIL	13,084.10	1000m*3	0.0367	Petajoules/1000m*3	480.79	Petajoules
FUEL OIL	1,162.23	1000m*3	0.0396	Petajoules/1000m*3	46.08	Petajoules
OTHER PETRO. PRODUCTS	360.46	1000m*3	0.0358	Petajoules/1000m*3	12.90	Petajoules
NATURAL GAS	4,693.95	1000000m*3	0.0344	Petajoules/1000000m*3	161.38	Petajoules
ELECTRICITY	4,168.61	GWh	0.0036	Petajoules/GWh	15.01	Petajoules
TOTAL					2,276.24	Petajoules
NON-ENERGY						
COAL	413.58	kilotonnes	0.0268	Petajoules/kilotonnes	11.08	Petajoules
TOTAL NON-ENERGY USE					11.08	Petajoules

Original Table (Energy Demand and Supply) of Canada in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER	22930	
COAL		
OIL		
GAS		
HYDRO POWER	63953	
NUCLEAR POWER	15857	
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	44	
COGENERATION		
COAL	0	kilotonnes
OIL	162.98	1000m*3
GAS	692.93	1000000m*3
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	94.1
CRUDE DISTILLATION CAPACITY	1000BD	1994.0
VACUUM DISTILLATION CAPACITY	1000BD	674.0
CATALYTIC HYDROCRACKING CAPACITY	1000BD	232.0
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	0.0
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	0.0
CATALYTIC CRACKING CAPACITY	1000BD	495.0
CATALYTIC REFORMING CAPACITY	1000BD	349.0

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Canada in 2003

2003

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COKE	2,268.30	KT	0.0274	PJ/KT	62.10	PJ
FUEL OIL	168.00	1000M3	0.0399	PJ/1000M3	6.70	PJ
NATURAL GAS	1,889.00	1000M3	0.0343	PJ/1000M3	64.90	PJ
ELECTRICITY	10,330.30	GWH	0.0036	PJ/GWH	37.20	PJ
TOTAL					170.90	PJ
1.2 CHEMICAL AND PETROCHEMICAL						
LPG	13,100.22	1000M3	0.0196	PJ/1000M3	256.50	PJ
NAPHTHA	4,448.80	1000M3	0.0334	PJ/1000M3	148.60	PJ
FUEL OIL	87.90	1000M3	0.0394	PJ/1000M3	3.50	PJ
NATURAL GAS	6,906.00	1000M3	0.0344	PJ/1000M3	237.40	PJ
ELECTRICITY	18,612.80	GWH	0.0036	PJ/GWH	67.00	PJ
HEAT	3,812.00	KT	0.0028	PJ/KT	10.50	PJ
TOTAL					723.50	PJ
1.3 NON-FERROUS METALS						
FUEL OIL	232.20	1000M3	0.0400	PJ/1000M3	9.20	PJ
OTHER PETROLEUM PRODUCTS	1,351.30	1000M3	0.0403	PJ/1000M3	54.40	PJ
NATURAL GAS	716.30	1000M3	0.0343	PJ/1000M3	24.60	PJ
ELECTRICITY	58,999.70	GWH	0.0036	PJ/GWH	212.40	PJ
TOTAL					300.60	PJ
1.4 NON-METALLIC MINERAL PRODUCTS						
DIESEL OIL	2.50	1000M3	0.0323	PJ/1000M3	0.10	PJ
FUEL OIL	77.70	1000M3	0.0392	PJ/1000M3	3.10	PJ
OTHER PETROLEUM PRODUCTS	328.80	1000M3	0.0400	PJ/1000M3	13.20	PJ
NATURAL GAS	58.30	1000M3	0.0342	PJ/1000M3	2.00	PJ
ELECTRICITY	2,022.50	GWH	0.0036	PJ/GWH	7.30	PJ
TOTAL					25.70	PJ
1.5 PAPER, PULP AND PRINTING						
DIESEL OIL	121.90	1000M3	0.0368	PJ/1000M3	4.50	PJ
FUEL OIL	1,499.40	1000M3	0.0397	PJ/1000M3	59.40	PJ
NATURAL GAS	2,174.20	1000M3	0.0343	PJ/1000M3	74.80	PJ
ELECTRICITY	59,867.50	GWH	0.0036	PJ/GWH	215.50	PJ
HEAT	6,351.60	KT	0.0027	PJ/KT	17.50	PJ
TOTAL					371.70	PJ
1.6 OTHER INDUSTRIES						
COAL	1,861.30	KT	0.0262	PJ/KT	48.80	PJ
HARD COAL	1,414.80	KT	0.0275	PJ/KT	38.90	PJ
STEAM COAL	1,414.80	KT	0.0275	PJ/KT	38.90	PJ
ANTHRACITE	292.50	KT	0.0264	PJ/KT	7.70	PJ
LIGNITE	154.00	KT	0.0143	PJ/KT	2.20	PJ
COKE	241.80	KT	0.0275	PJ/KT	6.60	PJ
COKE OVEN GAS	1,435.80	Mm ³	0.0177	PJ/Mm ³	25.40	PJ
BLAST FURNACE GAS	1,292.20	Mm ³	0.0176	PJ/Mm ³	22.80	PJ
LPG	1,460.69	1000M3	0.0196	PJ/1000M3	28.60	PJ
DIESEL OIL	3,257.70	1000M3	0.0367	PJ/1000M3	119.70	PJ
FUEL OIL	757.70	1000M3	0.0396	PJ/1000M3	30.00	PJ
OTHER PETROLEUM PRODUCTS	1,011.90	1000M3	-0.0045	PJ/1000M3	-4.60	PJ
NATURAL GAS	17,693.00	1000M3	0.0344	PJ/1000M3	608.30	PJ
OTHER COMMERCIAL	30,535.00	KT	0.0113	PJ/KT	345.20	PJ
ELECTRICITY	81,143.90	GWH	0.0036	PJ/GWH	292.10	PJ
HEAT	2,939.30	KT	0.0027	PJ/KT	8.10	PJ
TOTAL					1,531.00	PJ
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	6,192.10	1000M3	0.0341	PJ/1000M3	211.40	PJ
OTHER PETRO. PRODUCTS	95.00	1000M3	0.0319	PJ/1000M3	3.00	PJ
TOTAL					214.40	PJ
2.2 ROAD						
LPG	458.20	1000M3	0.0242	PJ/1000M3	11.10	PJ
MOGAS	40,623.50	1000M3	0.0329	PJ/1000M3	1,337.60	PJ
DIESEL OIL	10,318.30	1000M3	0.0368	PJ/1000M3	379.20	PJ
NATURAL GAS	45.80	1000M3	0.0338	PJ/1000M3	1.60	PJ
ELECTRICITY	940.30	GWH	0.0036	PJ/GWH	3.40	PJ
TOTAL					1,732.90	PJ
2.3 RAIL						
DIESEL OIL	1,908.50	1000M3	0.0367	PJ/1000M3	70.10	PJ
TOTAL					70.10	PJ
2.4 INTERNAL NAVIGATION						
DIESEL OIL	837.10	1000M3	0.0367	PJ/1000M3	30.80	PJ

Original Table (Disaggregated Final Energy Demand) of Canada in 2003 (Continued)

2003

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	1,162.30	1000M3	0.0397	PJ/1000M3	46.10	PJ
TOTAL					76.90	PJ
3 RESIDENTIAL AND COMMERCIAL SECTOR						PJ
3.1 COMMERCE AND PUBLIC SERVICE						PJ
LPG	1,192.80	1000M3	0.0260	PJ/1000M3	30.90	PJ
KEROSENE	156.80	1000M3	0.0361	PJ/1000M3	5.60	PJ
DIESEL OIL	6,786.50	1000M3	0.0368	PJ/1000M3	249.40	PJ
FUEL OIL	1,654.70	1000M3	0.0396	PJ/1000M3	65.60	PJ
OTHER PETROLEUM PRODUCTS	2,206.60	1000M3	0.0381	PJ/1000M3	84.10	PJ
NATURAL GAS	13,748.80	1000M3	0.0344	PJ/1000M3	472.70	PJ
ELECTRICITY	131,553.30	GWH	0.0036	PJ/GWH	473.60	PJ
HEAT	0.10	KT	3.0000	PJ/KT	0.30	PJ
TOTAL					1,382.20	PJ
3.2 RESIDENTIAL						PJ
COAL		KT	0.0177	PJ/KT	0.90	PJ
LPG	439.20	1000M3	0.0243	PJ/1000M3	10.70	PJ
KEROSENE	223.20	1000M3	0.0358	PJ/1000M3	8.00	PJ
DIESEL OIL	2,938.70	1000M3	0.0368	PJ/1000M3	108.00	PJ
FUEL OIL	17.10	1000M3	0.0388	PJ/1000M3	0.70	PJ
NATURAL GAS	17,544.10	1000M3	0.0344	PJ/1000M3	603.20	PJ
OTHER COMMERCIAL	5,362.00	KT	0.0144	PJ/KT	77.20	PJ
ELECTRICITY	150,803.10	GWH	0.0036	PJ/GWH	542.90	PJ
TOTAL					1,351.60	PJ

Original Table (Energy Price) of Canada in 2003

Year: 2003

Canada	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
NATURAL GAS (LNG)			
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	CAD/kL	371.3	
JET FUEL			
KEROSENE			
DIESEL OIL	CAD/kL	356.2	
FUEL OIL	CAD/kL	348.8	
LPG			
ELECTRICITY (INDUSTRY)			
ELECTRICITY (COMMERCIAL)			
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS	CAD/m ³	0.40	
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	CAD/kL	736.7	
KEROSENE			
DIESEL OIL			
LPG			
ELECTRICITY (RESIDENTIAL)			

3.4 Chile

Energy Balance Table of Chile in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	383	-	181	-	-	-	-	-	-
2 Import	1,931	44	10,324	1,969	505	-	17	-	691
3 Export	-	-	-	-1,652	-722	-73	-6	-	-340
4 International Marine Bunkers	-	-	-	-1,166	-	-	-	-	-
5 Stock Changes	-7	-61	121	86	44	-	-72	34	22
6 Total Primary Energy Supply	2,307	-18	10,626	-764	-173	-73	-61	34	373
7 Public Electricity	-1,386	-350	-	-31	-	-	-	-	-25
8 Autoproducers of Electricity	-6	-	-	-106	-	-	-	-	-22
9 Gas Processing	-478	-206	-	0	-	-	-	-	-
10 Petroleum Refineries	-	-	-10,626	10,206	2,409	-1	617	93	4,001
11 Coal Transformation	-	673	-	-	-	-	-	-	-
12 Loss & Own Use	-	-55	-	-656	-	-126	-	-	-6
13 Discrepancy	-4	307	-	1,345	0	203	-	0	0
14 Total Final Energy Consumption	433	351	-	9,995	2,236	3	556	127	4,321
15 Industry Sector	369	348	-	1,966	-	3	-	35	1,316
16 Transport Sector	-	-	-	6,641	2,236	-	556	-	2,962
17 Other Sector	64	3	-	1,242	-	-	-	92	43
18 Agriculture	63	3	-	139	-	-	-	-	9
19 Residential & Commercial	1	-	-	1,103	-	-	-	92	34
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	146	-	-	-	-	-

Energy Balance Table of Chile in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	288	-	223	-	-	-	-	-	-
2 Import	1,970	44	9,885	2,101	486	-	36	-	655
3 Export	-	-	-	-939	-383	-27	-3	-	-160
4 International Marine Bunkers	-	-	-	-934	-	-	-	-	-
5 Stock Changes	155	27	-136	-34	-46	2	-30	13	-48
6 Total Primary Energy Supply	2,413	71	9,971	194	58	-26	4	13	447
7 Public Electricity	-1,447	-233	-	-35	-	-	-	-	-29
8 Autoproducers of Electricity	-11	-	-	-108	-	-	-	-	-29
9 Gas Processing	-445	-169	-	0	-	-	-	-	-
10 Petroleum Refineries	-	-	-9,971	9,235	2,244	32	647	161	3,928
11 Coal Transformation	-	571	-	-	-	-	-	-	-
12 Loss & Own Use	-	-57	-	-277	-	-	-	-	-12
13 Discrepancy	0	121	0	933	0	0	0	0	0
14 Total Final Energy Consumption	510	304	-	9,943	2,302	6	651	174	4,305
15 Industry Sector	401	299	-	1,958	-	6	-	39	1,291
16 Transport Sector	-	-	-	6,512	2,302	-	651	-	2,937
17 Other Sector	109	5	-	1,330	-	-	-	135	76
18 Agriculture	102	5	-	161	-	-	-	-	6
19 Residential & Commercial	7	-	-	1,169	-	-	-	135	70
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	143	-	-	-	-	-

Energy Balance Table of Chile in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	1,829	-	1,944	-	-	5,559	-	-	9,896
75	681	-	-	5,123	-	-	-	-	-	168	-	19,558
-375	-137	-	-	-	-	-	-	-	-1,512	-	-	-3,164
-1,166	-	-	-	-	-	-	-	-	-	-	-	-1,166
75	-17	-	-	-241	-	-	-	-	-3	-	-	-106
-1,391	527	-	-	6,711	-	1,944	-	-	4,044	168	-	25,018
-6	-	-	-	-2,505	-	-1,893	-	-	-392	3,906	-	-2,651
-70	-	-14	-	-55	-	-51	-	-	-407	289	-	-337
-	0	-	-	-2,364	120	-	-	-	-	-12	-	-2,940
1,810	612	242	423	-564	-	-	-	-	-	-35	-	-1,019
-	-	-	-	-	-	-	-	-	-	-	-	673
-19	-	-228	-277	-	-2	-	-	-	-	-336	-	-1,049
1,166	-23	0	0	58	2	0	-	-	418	-168	-	1,958
1,490	1,115	1	146	1,281	120	-	-	-	3,663	3,811	-	19,653
474	138	1	-	782	91	-	-	-	392	2,323	-	6,271
887	-	-	-	23	-	-	-	-	-	19	-	6,683
129	978	-	-	475	30	-	-	-	3,252	1,469	-	6,535
127	3	-	-	103	-	-	-	-	376	338	-	1,022
2	975	-	-	373	30	-	-	-	2,877	1,131	-	5,513
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	146	-	-	-	-	-	-	-	-	146

Energy Balance Table of Chile in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	2,134	-	1,994	-	-	5,920	-	-	10,558
202	722	-	-	4,403	-	-	-	-	-	156	-	18,558
-196	-170	-	-	-	-	-	-	-	-1,631	-	-	-2,570
-934	-	-	-	-	-	-	-	-	-	-	-	-934
-9	84	-	-	-333	-	-	-	-	-17	-	-	-338
-937	635	-	-	6,203	-	1,994	-	-	4,272	156	-	25,274
-6	-	-	-	-1,930	-	-1,940	-	-	-266	3,511	-	-2,340
-77	-	-2	-	-56	-	-54	-	-	-416	244	-	-401
-	-	0	-	-2,363	121	-	-	-	-	-	-	-2,856
1,364	479	238	143	-563	-	-	-	-	-	-35	-	-1,334
-	-	-	-	-	-	-	-	-	-	-	-	571
-30	-	-235	-	-	-	-	-	-	-	-355	-	-689
934	-1	0	-	-65	-10	0	-	-	344	-13	-	1,310
1,248	1,113	1	143	1,226	112	-	-	-	3,934	3,508	-	19,536
471	151	1	-	748	82	-	-	-	-	2,052	-	5,540
621	-	-	-	23	-	-	-	-	-	18	-	6,553
156	962	-	-	455	29	-	-	-	3,494	1,438	-	6,860
152	3	-	-	83	-	-	-	-	631	366	-	1,348
4	960	-	-	372	29	-	-	-	2,862	1,072	-	5,512
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	143	-	-	-	-	-	-	-	-	143

Major Energy Indicators of Chile

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	10,971	9,847	9,782	10,523	10,222	11,987	13,367	14,260	14,742
Indigenous Production	7,043	7,122	7,157	7,083	7,089	7,287	7,511	7,763	8,057
Import	4,125	2,887	2,792	3,624	3,337	4,923	6,246	7,117	7,272
Export	-	-2	-	-	-17	-	-118	-158	-16
Final Energy Consumption	8,271	8,414	8,579	8,782	9,197	9,916	10,471	11,022	11,943
Industry	2,758	2,724	2,809	2,895	2,935	3,158	3,312	3,203	3,286
Transport	2,303	2,293	2,264	2,381	2,558	2,868	3,108	3,411	3,553
Residential & Commercial	2,427	2,587	2,643	2,789	2,908	3,093	3,274	3,430	3,620
Agriculture	626	712	696	668	680	673	587	796	1,160
Coal, Coal Products									
Primary Energy Supply	1,393	1,070	1,217	1,307	1,353	1,613	2,344	2,597	2,468
Indigenous Production	743	796	939	994	1,042	1,280	1,295	1,451	1,468
Import	650	273	278	313	311	333	1,048	1,145	1,000
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-600	-674	-592	-532	-547	-975	-1,508	-1,776	-1,224
Power Generation	-439	-538	-473	-429	-440	-865	-1,403	-1,649	-1,100
Final Energy Consumption	498	574	639	641	663	724	741	734	785
Industry	479	557	623	630	643	699	716	674	684
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	17	14	12	7	16	20	20	18	17
Agriculture	-	-	-	-	-	1	1	41	84
Crude Oil									
Primary Energy Supply	4,919	3,835	3,786	4,233	4,139	5,319	5,638	6,307	6,367
Indigenous Production	1,568	1,805	1,664	1,556	1,380	1,107	990	882	790
Import	3,351	2,030	2,122	2,677	2,759	4,212	4,649	5,425	5,577
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-4,982	-3,835	-3,834	-3,944	-4,304	-4,971	-5,907	-6,151	-6,345
Petroleum Refineries	-4,982	-3,835	-3,834	-3,944	-4,304	-4,971	-5,907	-6,151	-6,345
Petroleum Products									
Primary Energy Supply	-73	421	226	451	63	155	159	-73	108
Import	124	584	392	635	267	378	549	547	695
Export	-	-2	-	-	-17	-	-118	-158	-16
Transformation Sector	4,387	3,654	3,680	3,960	4,261	5,106	6,048	6,004	6,190
Power Generation	-612	-356	-292	-283	-272	-267	-450	-489	-375
Petroleum Refineries	5,180	4,133	4,083	4,364	4,662	5,512	6,551	6,654	6,733
Final Energy Consumption	4,960	4,566	4,571	4,644	4,863	5,355	5,793	6,134	6,536
Industry	1,652	1,448	1,439	1,469	1,440	1,541	1,608	1,525	1,493
Transport	2,288	2,276	2,247	2,365	2,540	2,852	3,093	3,390	3,530
Residential & Commercial	760	673	649	698	716	780	844	889	954
Agriculture	106	74	72	69	54	62	63	149	236
Natural Gas, Town Gas									
Primary Energy Supply	2,308	1,530	1,436	1,245	1,207	1,404	1,874	1,982	1,677
Indigenous Production	2,308	1,530	1,436	1,245	1,207	1,404	1,874	1,982	1,677
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-411	-478	-483	-424	-405	-633	-1,110	-1,198	-981
Power Generation	-39	-54	-56	-61	-62	-66	-63	-63	-68
Final Energy Consumption	218	241	235	248	250	272	260	268	298
Industry	68	63	61	64	73	83	67	63	82
Transport	-	-	-	-	-	-	-	6	7
Residential & Commercial	150	179	174	184	177	189	193	200	209
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	1,010	1,160	1,207	1,274	1,344	1,454	1,531	1,579	1,716
Thermal	379	358	317	302	304	468	706	808	587
Hydro	631	802	890	972	1,041	986	825	771	1,129
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	837	927	989	1,041	1,108	1,183	1,278	1,324	1,450
Industry	476	511	556	590	628	680	754	764	838
Transport	15	17	17	17	17	16	15	16	17
Residential & Commercial	271	312	329	346	369	391	418	433	454
Agriculture	76	87	88	88	94	96	91	112	142

Major Energy Indicators of Chile (Continued)

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1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
15,307	15,257	17,210	18,001	20,169	21,383	20,593	23,993	25,569	24,280	25,274	25,018
8,352	7,908	8,122	7,998	8,160	8,255	7,291	6,950	10,729	10,409	10,558	9,896
7,573	7,982	9,843	10,790	12,720	14,013	14,309	18,116	18,688	17,946	18,558	19,558
-48	-3	-95	-57	-29	-140	-158	-286	-2,483	-2,760	-2,570	-3,164
13,101	13,394	14,194	15,019	16,362	18,124	18,590	18,701	19,634	19,304	19,536	19,653
3,733	3,857	3,793	4,615	4,768	6,047	5,889	5,577	5,776	6,083	5,540	6,271
3,834	4,243	4,667	5,128	5,419	5,817	6,252	6,363	6,634	6,395	6,553	6,683
3,920	4,121	4,374	4,125	4,636	5,070	4,952	5,169	5,320	5,517	5,512	5,513
1,319	930	950	880	1,026	764	953	1,089	1,398	1,159	1,348	1,022
1,671	1,645	2,101	2,209	3,138	3,842	3,761	3,773	3,099	2,414	2,484	2,289
1,081	901	786	690	668	694	626	323	243	383	288	383
590	744	1,315	1,519	2,470	3,148	3,136	3,450	2,975	1,927	2,014	1,975
-	-	-	-	-	-	-	-	-	-	-	-
-884	-955	-1,387	-1,577	-1,909	-2,807	-2,938	-3,339	-2,305	-1,534	-1,791	-1,809
-756	-799	-1,234	-1,401	-2,134	-2,621	-2,767	-2,886	-2,082	-1,400	-1,691	-1,743
917	825	715	789	833	1,382	1,031	955	791	956	814	784
819	758	653	748	746	1,194	917	815	660	852	700	717
-	-	-	-	-	-	-	-	-	-	-	-
25	6	9	7	8	13	5	6	3	1	7	1
73	61	53	33	78	92	108	133	128	104	107	66
6,708	6,936	7,665	8,035	8,214	8,764	9,457	9,759	10,001	10,028	9,971	10,626
647	611	620	436	379	283	253	250	282	268	223	181
6,060	6,325	7,045	7,599	7,835	8,481	9,204	9,509	9,978	9,988	9,885	10,324
-	-	-	-	-	-	-	-	-	-	-	-
-6,534	-6,978	-7,442	-7,957	-8,276	-8,682	-9,412	-10,559	-10,217	-10,028	-9,971	-10,626
-6,534	-6,978	-7,442	-7,957	-8,276	-8,682	-9,412	-10,366	-10,217	-10,028	-9,971	-10,626
305	281	799	943	1,734	1,538	974	887	393	-540	194	-764
922	913	1,483	1,672	2,415	2,384	1,969	1,960	1,958	1,518	2,101	1,969
-48	-3	-23	-	-	-101	-145	-286	-875	-1,292	-939	-1,652
6,468	6,947	7,230	7,632	7,922	8,589	9,256	9,080	10,430	9,487	8,815	9,413
-302	-355	-424	-524	-319	-613	-576	-890	-305	-189	-143	-137
6,960	7,511	7,859	8,399	8,568	9,474	10,170	10,481	10,874	9,941	9,235	10,206
7,086	7,617	8,277	8,887	9,475	10,260	10,525	10,325	10,617	9,913	9,943	9,995
1,601	1,728	1,698	1,991	2,155	2,623	2,444	2,162	2,121	2,077	1,958	1,966
3,813	4,220	4,642	5,103	5,408	5,793	6,228	6,341	6,607	6,365	6,512	6,641
1,114	1,184	1,252	1,275	1,098	1,336	1,154	1,260	1,267	1,226	1,169	1,103
263	244	276	248	316	165	154	109	168	142	161	139
1,864	1,839	1,953	1,749	1,926	1,916	1,073	4,149	5,427	6,151	6,203	6,711
1,864	1,839	2,024	1,807	1,955	1,955	1,086	961	2,048	2,170	2,134	1,829
-	-	-	-	-	-	-	3,187	3,674	4,393	4,403	5,123
-	-	-72	-57	-29	-39	-13	-	-	-	-	-
-1,148	-1,078	-1,049	-1,134	-1,011	-749	-1,352	-1,589	-4,204	-4,837	-4,791	-5,370
-69	-71	-74	-418	-75	-165	-808	-1,141	-1,653	-2,237	-1,986	-2,560
317	333	342	355	365	619	633	707	1,104	1,245	1,338	1,401
92	102	106	109	114	355	371	408	729	791	831	873
4	5	6	9	6	5	5	6	8	10	23	23
220	225	229	238	245	259	257	271	338	415	401	402
-	-	-	-	-	-	-	22	29	29	83	103
1,922	2,064	2,173	2,409	2,647	2,864	3,053	3,301	3,500	3,657	3,755	4,194
483	585	714	807	1,196	1,225	1,664	1,964	1,854	1,844	1,761	2,251
1,439	1,479	1,459	1,603	1,451	1,640	1,389	1,337	1,646	1,813	1,994	1,944
-	-	-	-	-	-	-	-	-	-	-	-
1,652	1,742	1,856	2,074	2,311	2,513	2,882	2,982	3,147	3,386	3,508	3,811
951	998	1,059	1,214	1,394	1,538	1,810	1,854	1,928	2,018	2,052	2,323
17	18	19	17	5	18	18	17	19	20	18	19
495	537	586	630	704	752	825	867	919	1,027	1,072	1,131
190	188	192	214	196	205	229	245	280	321	366	338

Major Economic Indicators of Chile

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	11.15	11.86	12.05	12.24	12.45	12.66	12.87	13.10
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	29.71	28.99	31.05	32.79	34.95	37.50	41.47	43.00
Real Term (Billions of 1995 Price and 1995 PPP)	47.65	46.49	49.80	52.59	305.78	60.15	66.51	68.96
Nominal (Billions of Current USD)	27.57	19.23	16.49	17.72	20.69	24.15	27.55	30.32
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	2,665	2,445	2,577	2,678	2,808	2,963	3,221	3,283
Real Term (1995 Price and 1995 PPP)	4,274	3,921	4,134	4,295	4,503	4,752	5,166	5,265
Nominal (Current USD)	2,474	1,622	1,368	1,447	1,663	1,908	2,140	2,315
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	1,075.32	1,894.04	2,651.94	3,419.21	4,540.56	5,917.88	7,353.73	9,245.50
Household Final Consumption Expenditure, etc.	760.09	1,382.00	1,775.62	2,238.75	2,906.18	3,545.35	4,421.96	5,719.56
General Government Final Consumption Expenditure	133.89	274.00	355.80	430.17	494.10	613.34	741.79	901.87
Gross Fixed Capital Formation	178.98	235.04	446.72	586.02	881.61	1,201.54	1,733.48	2,139.60
Stock Change	47.07	24.00	9.23	59.68	128.37	145.86	115.88	182.08
Exports of Goods and Services	245.39	459.00	746.45	994.63	1,374.30	2,045.60	2,638.80	3,200.92
Imports of Goods and Services	290.10	480.00	681.89	890.04	1,243.99	1,633.82	2,298.19	2,898.52
Real GDP & its Components (Billions of 1986 CLP) *1								
Gross Domestic Product	3,097.96	3,022.80	3,238.00	3,419.21	3,644.68	3,911.15	4,324.18	4,484.07
Household Final Consumption Expenditure, etc.	2,345.66	2,150.84	2,129.74	2,238.75	2,400.57	2,569.30	2,829.98	2,892.01
General Government Final Consumption Expenditure	442.45	426.68	425.55	430.17	419.09	434.14	450.46	454.20
Gross Fixed Capital Formation	696.68	477.18	572.19	586.02	713.26	814.21	1,058.46	1,085.10
Stock Change	111.93	43.30	31.94	59.68	105.76	99.87	98.98	134.45
Exports of Goods and Services	824.28	844.60	903.43	994.63	1,061.68	1,184.36	1,375.17	1,493.67
Imports of Goods and Services	1,323.04	919.81	824.84	890.04	1,055.67	1,190.73	1,488.86	1,575.35
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	7.7	8.5	8.4	8.6	8.8	9.2	8.8	9.3
Industry	35.9	36.6	35.3	35.4	34.6	34.9	34.3	33.6
Services, etc.	56.4	54.9	51.8	51.7	51.6	50.8	50.7	50.6
Manufacturing Production Index (2000=100) *2	53.0	51.9	51.9	56.2	58.5	63.1	67.8	68.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b	4.705	3.650	3.804	4.191	5.224	7.052	8.080	8.372
Imports, c.i.f.	5.797	3.574	3.072	3.436	4.396	5.292	7.144	7.742
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.764	0.362	0.884	1.092	1.309	2.210	1.483	1.284
Current Account	-1.971	-2.111	-1.413	-1.191	-0.735	-0.231	-0.691	-0.485
Overall Balance	1.321	-2.001	-2.877	-3.187	-1.621	-1.256	0.519	2.323
Foreign Exchange Rate (CLP/USD) *1	39.0000	98.4775	160.8600	192.9300	219.4067	245.0117	266.9542	304.9033
Purchasing Power Parity (CLP/International Dollar) *1	38.6635	51.6757	64.1687	78.1346	97.3494	114.6606	125.4563	148.6954
Price Indices								
GDP Deflator (1986=100) *3	34.7	62.7	81.9	100.0	124.6	151.3	170.1	206.2
Industrial Share Prices Index (2000=100) *2	2.0	1.5	1.9	4.1	7.5	11.1	17.8	27.6
Consumer Price Index (2000=100) *2	6.4	12.9	16.6	20.1	24.1	27.6	32.3	40.7
Growth Rate (%) *3								
Real GDP	8.15	7.97	7.12	5.60	6.59	7.31	10.56	3.70
Population	1.51	1.59	1.61	1.64	1.66	1.69	1.71	1.74
Price								
Home & Import Goods Price Index (2000=100)	168.6	33.0	23.7	119.5	82.6	48.5	61.0	54.5
Consumer Price Index	35.1	19.9	29.5	20.6	19.9	14.7	17.0	26.0

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"
: CLP shows Chilean Peso, USD shows United States Dollar
: PPP shows Purchasing Power Parity

Major Economic Indicators of Chile (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
13.32	13.54	13.77	13.99	14.21	14.42	14.62	14.82	15.02	15.21	15.40	15.59	15.77
46.43	52.13	55.77	58.95	65.22	70.05	75.23	78.18	77.29	80.69	82.95	84.77	87.57
74.46	83.60	89.44	94.55	104.60	112.35	120.66	125.39	123.96	129.41	133.04	135.96	140.45
34.65	41.88	44.47	50.92	65.22	68.57	75.29	73.06	73.05	74.94	66.45	67.37	72.41
3,485	3,848	4,050	4,212	4,589	4,858	5,145	5,275	5,146	5,304	5,385	5,438	5,551
5,590	6,172	6,495	6,756	7,361	7,792	8,252	8,460	8,254	8,508	8,638	8,722	8,904
2,601	3,092	3,229	3,639	4,589	4,755	5,149	4,930	4,864	4,927	4,314	4,321	4,591
12,100.50	15,185.40	17,974.90	21,395.20	25,875.70	28,268.36	31,567.29	33,630.37	37,164.39	40,436.00	42,192.00	46,411.00	50,068.00
7,660.86	9,893.73	11,846.70	13,829.10	16,187.10	18,361.73	20,514.77	22,309.26	24,409.11	26,284.97	27,535.05	29,572.26	30,382.48
1,169.60	1,469.02	1,803.52	2,128.54	2,543.35	2,918.09	3,319.76	3,708.34	4,126.46	4,482.01	5,076.70	5,584.34	6,024.37
2,412.01	3,405.04	4,479.54	4,980.33	6,177.10	7,039.80	8,043.96	8,744.12	7,832.07	8,499.95	9,041.32	9,543.45	11,415.50
316.90	209.96	284.53	175.36	496.70	558.53	550.46	480.53	99.42	593.81	-313.54	638.95	690.90
4,011.93	4,654.60	4,943.13	6,269.53	7,904.95	8,125.47	8,878.20	8,986.42	9,989.28	12,031.03	14,630.61	15,363.36	17,874.02
3,470.82	4,446.91	5,382.56	5,987.64	7,433.50	8,735.26	9,739.87	10,598.30	9,360.46	11,629.43	13,778.37	14,291.37	16,319.27
4,841.45	5,435.88	5,815.65	6,147.61	6,800.95	7,305.14	7,845.13	8,153.01	8,059.77	8,414.40	8,650.00	8,840.30	9,132.00
3,148.53	3,582.72	3,848.85	4,163.54	4,572.27	4,972.49	5,392.64	5,649.91	5,474.54	5,701.58	5,872.77	5,894.94	5,952.73
470.44	496.75	518.17	528.22	550.27	567.09	601.02	624.11	639.59	657.50	675.25	724.81	759.29
1,083.17	1,343.41	1,584.63	1,682.65	2,078.07	2,263.41	2,523.83	2,627.08	2,170.30	2,354.77	2,401.87	2,473.92	2,609.99
144.79	152.04	226.46	142.46	371.37	355.22	375.11	363.19	56.32	268.12	-141.57	-148.65	-156.08
1,679.39	1,913.27	1,980.89	2,211.22	2,454.09	2,743.31	3,001.79	3,180.32	3,398.56	3,653.45	4,007.83	3,910.15	4,356.01
1,684.87	2,052.31	2,343.36	2,580.48	3,225.11	3,606.74	4,071.24	4,291.61	3,679.53	4,221.03	4,166.16	4,014.87	4,389.94
8.8	8.8	7.2	7.2	6.8	6.4	5.8	5.9	5.9	6.0	6.2	6.2	6.2
33.4	32.5	32.7	32.4	31.7	31.5	31.3	30.6	31.8	31.9	31.7	31.7	31.7
51.0	50.9	51.6	51.5	51.3	51.4	45.2	45.7	46.0	45.6	45.6	51.1	51.1
72.0	80.6	82.4	84.5	88.6	91.9	96.4	96.5	96.5	100.0	101.9	102.6	108.0
8.941	10.007	9.198	11.604	16.024	15.657	17.902	16.323	17.162	19.210	18.272	18.177	21.046
8.207	10.183	11.134	11.820	15.900	17.823	19.662	19.880	15.988	18.507	17.832	17.196	19.413
1.485	0.722	-0.990	0.732	1.381	-1.072	-1.428	-2.040	2.427	2.119	1.844	2.386	3.522
-0.098	-0.957	-2.555	-1.586	-1.350	-3.083	-3.660	-3.918	0.099	-0.898	-1.100	-0.580	-1.102
1.257	2.547	0.428	3.151	1.139	2.593	3.318	-2.191	-0.747	0.317	-0.599	0.185	-0.357
349.2158	362.5758	404.1658	420.1767	396.7733	412.2667	419.2950	460.2875	508.7767	539.5875	634.9383	688.9363	691.4325
174.4282	192.7336	210.0870	228.8433	247.3815	247.5960	253.8955	259.9086	286.7299	289.0371	285.3015	303.6313	308.9336
249.9	279.4	309.1	348.0	380.5	387.0	402.4	412.5	461.1	480.6	487.8	525.0	548.3
49.9	68.7	77.7	108.1	137.6	122.8	111.3	83.3	90.3	100.0	106.6	104.2	131.4
49.6	57.2	64.5	71.9	77.8	83.5	88.7	93.2	96.3	100.0	103.6	106.1	109.1
7.97	12.28	6.99	5.71	10.63	7.41	7.39	3.92	-1.14	4.40	2.80	2.20	3.30
1.68	1.69	1.67	1.62	1.54	1.47	1.41	1.36	1.32	1.29	1.25	1.21	1.19
80.8	37.8	13.0	39.1	27.3	-10.8	-9.4	-25.2	8.5	10.7	6.6	-2.3	26.1
21.8	15.4	12.7	11.4	8.2	7.4	6.1	5.1	3.3	3.8	3.6	2.5	2.8

Original Table (Energy Demand and Supply) of Chile in 2003

Year:2003

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	576.33	KT	0.0278	TJ/T	16.04	PJ
HARD COAL	576.33	KT	0.0278	TJ/T	16.04	PJ
STEAM COAL	461.47	KT	0.0235	TJ/T	10.83	PJ
SUBBITUMINOUS COAL	30.83	KT	0.1691	TJ/T	5.21	PJ
CRUDE OIL AND NGL	205.43	1.000m3	0.0370	TJ/m3	7.59	PJ
CRUDE OIL	205.43	1.000m3	0.0370	TJ/m3	7.59	PJ
NATURAL GAS AND LNG	2,175.98	1.000.000m3	0.0352	PJ/m3	76.57	PJ
NATURAL GAS	2,175.98	1.000.000m3	0.0352	PJ/m3	76.57	PJ
HYDRO POWER	22,603.00	GWH	0.0036	PJ/GWH	81.37	PJ
OTHERS	18,619.45	KT	0.0125	TJ/T	232.74	PJ
TOTAL PRODUCTION					414.32	PJ
OPENING STOCKS						
TOTAL OPENING STOCKS						PJ
CLOSING STOCKS						
TOTAL OPENING STOCKS						PJ
STOCKS CHANGE						
COAL	-10.72	KT	0.0278	TJ/T	-0.30	PJ
HARD COAL	-10.72	KT	0.0278	TJ/T	-0.30	PJ
COKE	-92.29	KT	0.0278	TJ/T	-2.57	PJ
CRUDE OIL AND NGL/CONDENSATE	136.66	1.000m3	0.0370	TJ/m3	5.05	PJ
CRUDE OIL	136.66	1.000m3	0.0370	TJ/m3	5.05	PJ
LPG	-27.46	1.000m3	0.0265	TJ/m3	-0.73	PJ
MOGAS	56.67	1.000m3	0.0325	TJ/m3	1.84	PJ
JET FUEL	-74.60	1.000m3	0.0358	TJ/m3	-2.67	PJ
AVGAS	-10.69	1.000m3	0.0309	TJ/m3	-0.33	PJ
KEROSENE	42.45	1.000m3	0.0338	TJ/m3	1.44	PJ
DIESEL OIL	24.90	1.000m3	0.0364	TJ/m3	0.91	PJ
FUEL OIL	79.86	1.000m3	0.0392	TJ/m3	3.13	PJ
NATURAL GAS AND LNG	-286.81	1.000.000m3	0.0352	PJ/m3	-10.09	PJ
NATURAL GAS	-286.81	1.000.000m3	0.0352	PJ/m3	-10.09	PJ
OTHERS	-5.90	KT	0.0227	TJ/T	-0.13	PJ
TOTAL STOCK CHANGE					-4.46	PJ
IMPORTS						
COAL	2,904.79	KT	0.0278	TJ/T	80.85	PJ
HARD COAL	2,904.79	KT	0.0278	TJ/T	80.85	PJ
STEAM COAL	1,929.63	KT	0.0235	TJ/T	45.28	PJ
COKING COAL	1,316.45	KT	0.0264	TJ/T	34.77	PJ
COKE	36.57	KT	0.0278	TJ/T	1.02	PJ
BRIQUETTES	42.77	KT	0.0189	TJ/T	0.81	PJ
CRUDE OIL AND NGL/CONDENSATE	11,696.56	1.000m3	0.0370	TJ/m3	432.25	PJ
CRUDE OIL	11,696.56	1.000m3	0.0370	TJ/m3	432.25	PJ
LPG	1,075.16	1.000m3	0.0265	TJ/m3	28.50	PJ
MOGAS	650.79	1.000m3	0.0325	TJ/m3	21.14	PJ
JET FUEL	19.79	1.000m3	0.0358	TJ/m3	0.71	PJ
DIESEL OIL	794.61	1.000m3	0.0364	TJ/m3	28.93	PJ
FUEL OIL	79.97	1.000m3	0.0392	TJ/m3	3.13	PJ
NATURAL GAS AND LNG	6,095.54	1.000.000m3	0.0352	PJ/m3	214.50	PJ
NATURAL GAS	6,095.54	1.000.000m3	0.0352	PJ/m3	214.50	PJ
ELECTRICITY	1,949.99	GWH	0.0036	PJ/GWH	7.02	PJ
TOTAL IMPORTS					818.87	PJ
EXPORTS						
LPG	215.75	1.000m3	0.0265	TJ/m3	5.72	PJ
NAPHTHA	95.02	1.000m3	0.0320	TJ/m3	3.04	PJ
MOGAS	930.96	1.000m3	0.0325	TJ/m3	30.25	PJ
JET FUEL	7.00	1.000m3	0.0358	TJ/m3	0.25	PJ
DIESEL OIL	390.95	1.000m3	0.0364	TJ/m3	14.22	PJ
FUEL OIL	400.23	1.000m3	0.0392	TJ/m3	15.68	PJ
OTHERS	234.46	KT	0.2700	TJ/KT	63.31	PJ
TOTAL EXPORTS					132.47	PJ
INTERNATIONAL MARINE BUNKERS	1,341.61	1.000m3	0.0364	TJ/m3	48.81	PJ
TOTAL PRIMARY ENERGY SUPPLY					1,047.44	PJ
TRANSFORMATION SECTOR(INPUT)						
COAL TRANSFORMATION						
REFINING						
CRUDE OIL AND NGL/CONDENSATE	10,840.36	1.000m3	0.0410	TJ/m3	444.89	PJ
CRUDE OIL	10,840.36	1.000m3	0.0410	TJ/m3	444.89	PJ
NAPHTHA	275.97	1.000m3	0.0308	TJ/m3	8.49	PJ
NATURAL GAS AND LNG	671.26	1.000.000m3	0.0352	PJ/m3	23.62	PJ
NATURAL GAS	671.26	1.000.000m3	0.0352	PJ/m3	23.62	PJ
ELECTRICITY	409.30	GWH	0.0036	PJ/GWH	1.47	PJ
GAS PROCESSING						
COAL	719.48	KT	0.0278	TJ/T	20.03	PJ
HARD COAL	719.48	KT	0.0278	TJ/T	20.03	PJ
COKE	202.44	KT	0.0278	TJ/T	5.64	PJ
COKE OVEN GAS	98.62	1.000.000m3	0.0147	PJ/m3	1.45	PJ
BLAST FURNACE GAS	455.24	1.000.000m3	0.0034	PJ/m3	1.54	PJ
TOWN GAS	20.30	1.000.000m3	0.0150	PJ/m3	0.31	PJ
LPG	0.30	1.000m3	0.0265	TJ/m3	0.01	PJ
NATURAL GAS	2,812.35	1.000.000m3	0.0352	PJ/m3	98.97	PJ

Original Table (Energy Demand and Supply) of Chile in 2003 (Continued)

Year:2003

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	144.19	GWH	0.0036	PJ/GWH	0.52	PJ
POWER GENERATION (PUBLIC UTILITIES)						
COAL	2,084.73	KT	0.0278	TJ/T	58.03	PJ
HARD COAL	2,084.73	KT	0.0278	TJ/T	58.03	PJ
COKE	526.61	KT	0.0278	TJ/T	14.66	PJ
DIESEL OIL	28.53	1.000m3	0.0364	TJ/m3	1.04	PJ
FUEL OIL	6.70	1.000m3	0.0392	TJ/m3	0.26	PJ
NATURAL GAS AND LNG	2,980.11	1.000.000m3	0.0352	PJ/m3	104.87	PJ
NATURAL GAS	2,980.11	1.000.000m3	0.0352	PJ/m3	104.87	PJ
HYDRO POWER	22,012.37	GWH	0.0036	PJ/GWH	79.24	PJ
OTHERS	656.54	KT	0.0250	TJ/T	16.41	PJ
POWER GENERATION (AUTO PRODUCERS)						
COAL	9.72	KT	0.0278	TJ/T	0.27	PJ
REFINERY GAS	35.22	1.000.000m3	0.0169	PJ/m3	0.60	PJ
DIESEL OIL	25.47	1.000m3	0.0364	TJ/m3	0.93	PJ
FUEL OIL	74.59	1.000m3	0.0392	TJ/m3	2.92	PJ
NATURAL GAS AND LNG	65.84	1.000.000m3	0.0352	PJ/m3	2.32	PJ
NATURAL GAS	65.84	1.000.000m3	0.0352	PJ/m3	2.32	PJ
HYDRO POWER	591.01	GWH	0.0036	PJ/GWH	2.13	PJ
OTHERS	1,158.42	KT	0.0147	TJ/T	17.03	PJ
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	1,012.36	KT	0.0278	TJ/T	28.18	PJ
REFINING						
REFINERY GAS	599.14	1.000.000m3	0.0169	PJ/m3	10.15	PJ
LPG	967.44	1.000m3	0.0265	TJ/m3	25.64	PJ
NAPHTHA	264.45	1.000m3	0.0320	TJ/m3	8.47	PJ
MOGAS	3,104.88	1.000m3	0.0325	TJ/m3	100.88	PJ
JET FUEL	708.23	1.000m3	0.0358	TJ/m3	25.33	PJ
AVGAS	15.84	1.000m3	0.0309	TJ/m3	0.49	PJ
KEROSENE	107.86	1.000m3	0.0359	TJ/m3	3.87	PJ
DIESEL OIL	4,600.59	1.000m3	0.0364	TJ/m3	167.52	PJ
FUEL OIL	1,933.39	1.000m3	0.0392	TJ/m3	75.76	PJ
OTHER PETROLEUM PRODUCTS	604.96	1.000m3	0.0293	TJ/m3	17.70	PJ
GAS RECOVERING						
TOWN GAS	355.44	1.000.000m3	0.0150	PJ/m3	5.34	PJ
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	23,410.00	GWH	0.0036	PJ/GWH	84.28	PJ
HYDRO POWER	22,012.37	GWH	0.0036	PJ/GWH	79.24	PJ
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	2,767.00	GWH	0.0036	PJ/GWH	9.96	PJ
HYDRO POWER	591.01	GWH	0.0036	PJ/GWH	2.13	PJ
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
BLAST FURNACE GAS	677.31	1.000.000m3	0.0034	PJ/m3	2.30	PJ
REFINERY GAS	562.52	1.000.000m3	0.0169	PJ/m3	9.53	PJ
NAPHTHA	165.33	1.000m3	0.0320	TJ/m3	5.29	PJ
DIESEL OIL	7.10	1.000m3	0.0364	TJ/m3	0.26	PJ
FUEL OIL	19.89	1.000m3	0.0392	TJ/m3	0.78	PJ
OTHER PETROLEUM PRODUCTS	396.45	1.000m3	0.0293	TJ/m3	11.60	PJ
TOWN GAS	5.44	1.000.000m3	0.0180	PJ/m3	0.10	PJ
ELECTRICITY	3,902.31	GWH	0.0036	PJ/GWH	14.05	PJ
TOTAL LOSSES AND OWN USE					43.90	PJ
FINAL ENERGY CONSUMPTION TOTAL						
COAL	877.59	KT	0.0206	TJ/T	18.09	PJ
HARD COAL	877.59	KT	0.0206	TJ/T	18.09	PJ
STEAM COAL	456.83	KT	0.0228	TJ/T	10.42	PJ
SUBBITUMINOUS COAL	420.76	KT	0.0182	TJ/T	7.67	PJ
COKE	400.17	KT	0.0278	TJ/T	11.14	PJ
BRIQUETTES	9.67	KT	0.0189	TJ/T	0.18	PJ
BLAST FURNACE GAS	793.90	1.000.000m3	0.0034	PJ/m3	2.69	PJ
REFINERY GAS	1.41	1.000.000m3	0.0169	PJ/m3	0.02	PJ
LPG	1,762.03	1.000m3	0.0265	TJ/m3	46.70	PJ
NAPHTHA	4.10	1.000m3	0.0320	TJ/m3	0.13	PJ
MOGAS	2,881.38	1.000m3	0.0325	TJ/m3	93.62	PJ
JET FUEL	646.42	1.000m3	0.0358	TJ/m3	23.12	PJ
AVGAS	5.15	1.000m3	0.0309	TJ/m3	0.16	PJ
KEROSENE	147.84	1.000m3	0.0359	TJ/m3	5.31	PJ
DIESEL OIL	4,972.30	1.000m3	0.0364	TJ/m3	180.92	PJ
FUEL OIL	250.20	1.000m3	0.0392	TJ/m3	9.80	PJ
OTHER PETROLEUM PRODUCTS	431.68	1.000m3	0.0141	TJ/m3	6.10	PJ
NATURAL GAS AND LNG	1,523.67	1.000.000m3	0.0352	PJ/m3	53.62	PJ
NATURAL GAS	1,523.67	1.000.000m3	0.0352	PJ/m3	53.62	PJ
TOWN GAS	334.88	1.000.000m3	0.0150	PJ/m3	5.03	PJ
ELECTRICITY	44,319.56	GWH	0.0036	PJ/GWH	159.55	PJ
OTHERS	10,432.04	KT	0.0147	TJ/T	153.35	PJ
TOTAL					769.54	PJ
AGRICULTURE						
COAL	95.01	KT	0.0278	TJ/T	2.64	PJ
HARD COAL	95.01	KT	0.0278	TJ/T	2.64	PJ
COKE	5.00	KT	0.0278	TJ/T	0.14	PJ
LPG	4.20	1.000m3	0.0265	TJ/m3	0.11	PJ

Original Table (Energy Demand and Supply) of Chile in 2003 (Continued)

Year:2003

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
DIESEL OIL	10.60	1.000m3	0.0364	TJ/m3	0.39	PJ
FUEL OIL	135.68	1.000m3	0.0392	TJ/m3	5.32	PJ
NATURAL GAS AND LNG	122.48	1.000.000m3	0.0352	PJ/m3	4.31	PJ
NATURAL GAS	122.48	1.000.000m3	0.0352	PJ/m3	4.31	PJ
ELECTRICITY	3,932.54	GWH	0.0036	PJ/GWH	14.16	PJ
OTHERS	1,069.86	KT	0.0147	TJ/T	15.73	PJ
TOTAL					42.79	PJ
RESIDENTIAL COMMERCIAL						
COAL	1.00	KT	0.0278	TJ/T	0.03	PJ
LPG	1,540.13	1.000m3	0.0265	TJ/m3	40.82	PJ
KEROSENE	106.87	1.000m3	0.0359	TJ/m3	3.84	PJ
DIESEL OIL	39.35	1.000m3	0.0364	TJ/m3	1.43	PJ
FUEL OIL	2.03	1.000m3	0.0392	TJ/m3	0.08	PJ
NATURAL GAS AND LNG	443.23	1.000.000m3	0.0352	PJ/m3	15.60	PJ
NATURAL GAS	443.23	1.000.000m3	0.0352	PJ/m3	15.60	PJ
TOWN GAS	82.47	1.000.000m3	0.0150	PJ/m3	1.24	PJ
ELECTRICITY	13,154.59	GWH	0.0036	PJ/GWH	47.36	PJ
OTHERS	8,193.51	KT	0.0147	TJ/T	120.44	PJ
TOTAL					230.84	PJ
OTHERS						
TOTAL						PJ
INDUSTRY						
COAL	749.24	KT	0.0206	TJ/T	15.44	PJ
HARD COAL	749.24	KT	0.0206	TJ/T	15.44	PJ
STEAM COAL	390.02	KT	0.0228	TJ/T	8.89	PJ
SUBBITUMINOUS COAL	359.23	KT	0.0182	TJ/T	6.55	PJ
COKE	421.32	KT	0.0278	TJ/T	11.73	PJ
BRIQUETTES	8.25	KT	0.0189	TJ/T	0.16	PJ
BLAST FURNACE GAS	831.39	1.000.000m3	0.0032	PJ/m3	2.69	PJ
REFINERY GAS	0.65	1.000.000m3	0.0370	PJ/m3	0.02	PJ
LPG	217.70	1.000m3	0.0265	TJ/m3	5.77	PJ
NAPHTHA	4.64	1.000m3	0.0283	TJ/m3	0.13	PJ
KEROSENE	40.97	1.000m3	0.0359	TJ/m3	1.47	PJ
DIESEL OIL	1,513.86	1.000m3	0.0364	TJ/m3	55.08	PJ
FUEL OIL	505.87	1.000m3	0.0392	TJ/m3	19.85	PJ
NATURAL GAS AND LNG	930.45	1.000.000m3	0.0352	PJ/m3	32.74	PJ
NATURAL GAS	930.45	1.000.000m3	0.0352	PJ/m3	32.74	PJ
TOWN GAS	210.77	1.000.000m3	0.0180	PJ/m3	3.79	PJ
ELECTRICITY	27,012.67	GWH	0.0036	PJ/GWH	97.25	PJ
OTHERS	1,116.56	KT	0.0147	TJ/T	16.41	PJ
TOTAL					262.54	PJ
TRANSPORT						
MOGAS	2,881.38	1.000m3	0.0325	TJ/m3	93.62	PJ
JET FUEL	646.42	1.000m3	0.0358	TJ/m3	23.12	PJ
AVGAS	5.15	1.000m3	0.0309	TJ/m3	0.16	PJ
DIESEL OIL	3,408.50	1.000m3	0.0364	TJ/m3	124.02	PJ
FUEL OIL	946.47	1.000m3	0.0392	TJ/m3	37.13	PJ
NATURAL GAS AND LNG	27.51	1.000.000m3	0.0352	PJ/m3	0.97	PJ
NATURAL GAS	27.51	1.000.000m3	0.0352	PJ/m3	0.97	PJ
ELECTRICITY	219.77	GWH	0.0036	PJ/GWH	0.79	PJ
TOTAL					279.81	PJ
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	431.68	KT	0.0141	TJ/T	6.10	PJ
TOTAL NON-ENERGY USE	431.68	KT	0.0149	TJ/T	6.10	PJ

Original Table (Energy Demand and Supply) of Chile in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER	6989	
COAL	2258	
OIL	1023	
GAS	3708	
HYDRO POWER	4165	
NUCLEAR POWER		
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)	2	
OTHERS (BIOMASS, MUNICIPAL WASTE)	318	
COGENERATION	276	
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	96
CRUDE DISTILLATION CAPACITY	1000BD	227.1458309
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	29.0130035
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	52.22466472
CATALYTIC REFORMING CAPACITY	1000BD	29.00671137

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Chile in 2003

2003

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	85.43	kt	0.0293	PJ/kt	2.50	PJ
HARD COAL	85.43	kt	0.0293	PJ/kt	2.50	PJ
COKE	336.19	kt	0.0289	PJ/kt	9.72	PJ
BLAST FURNACE GAS	793.90	Mm ³	0.0038	PJ/Mm ³	2.99	PJ
DIESEL OIL	19.56	km ³	0.0383	PJ/km ³	0.75	PJ
FUEL OIL	2.43	km ³	0.0413	PJ/km ³	0.10	PJ
NATURAL GAS/LNG	33.51	Mm ³	0.0391	PJ/Mm ³	1.31	PJ
NATURAL GAS	33.51	Mm ³	0.0391	PJ/Mm ³	1.31	PJ
TOWN GAS	243.39	Mm ³	0.0167	PJ/Mm ³	4.06	PJ
ELECTRICITY	1,075.58	GWh	0.0036	PJ/GWh	3.87	PJ
PUBLIC UTILITIES	1,075.58	GWh	0.0036	PJ/GWh	3.87	PJ
TOTAL					25.31	PJ
1.2 CHEMICAL AND PETROCHEMICAL						
REFINERY GAS	1.41	Mm ³	0.0178	PJ/Mm ³	0.03	PJ
LPG	0.30	km ³	0.0279	PJ/km ³	0.01	PJ
DIESEL OIL	10.93	km ³	0.0383	PJ/km ³	0.42	PJ
FUEL OIL	0.20	km ³	0.0413	PJ/km ³	0.01	PJ
NATURAL GAS/LNG	19.06	Mm ³	0.0391	PJ/Mm ³	0.75	PJ
NATURAL GAS	19.06	Mm ³	0.0391	PJ/Mm ³	0.75	PJ
ELECTRICITY	675.58	GWh	0.0036	PJ/GWh	2.43	PJ
PUBLIC UTILITIES	675.58	GWh	0.0036	PJ/GWh	2.43	PJ
TOTAL					3.64	PJ
1.3 NON-FERROUS METALS						
COAL	13.72	kt	0.0293	PJ/kt	0.40	PJ
HARD COAL	13.72	kt	0.0293	PJ/kt	0.40	PJ
COKE	8.55	kt	0.0289	PJ/kt	0.25	PJ
LPG	17.40	km ³	0.0279	PJ/km ³	0.49	PJ
NAPHTHA	4.64	km ³	0.0298	PJ/km ³	0.14	PJ
KEROSENE	12.96	km ³	0.0378	PJ/km ³	0.49	PJ
DIESEL OIL	854.04	km ³	0.0383	PJ/km ³	32.71	PJ
FUEL OIL	195.11	km ³	0.0413	PJ/km ³	8.06	PJ
NATURAL GAS/LNG	118.19	Mm ³	0.0391	PJ/Mm ³	4.62	PJ
NATURAL GAS	118.19	Mm ³	0.0391	PJ/Mm ³	4.62	PJ
ELECTRICITY	16,463.88	GWh	0.0036	PJ/GWh	59.27	PJ
PUBLIC UTILITIES	16,463.88	GWh	0.0036	PJ/GWh	59.27	PJ
OTHERS	0.57	kt	0.0147	PJ/kt	0.01	PJ
TOTAL					106.43	PJ
1.4 NON-METALLIC MINERAL PRODUCTS						
KEROSENE	3.77	km ³	0.0378	PJ/km ³	0.14	PJ
DIESEL OIL	28.42	km ³	0.0383	PJ/km ³	1.09	PJ
FUEL OIL	0.41	km ³	0.0413	PJ/km ³	0.02	PJ
NATURAL GAS/LNG	91.32	Mm ³	0.0391	PJ/Mm ³	3.57	PJ
NATURAL GAS	91.32	Mm ³	0.0391	PJ/Mm ³	3.57	PJ
ELECTRICITY	360.46	GWh	0.0036	PJ/GWh	1.30	PJ
PUBLIC UTILITIES	360.46	GWh	0.0036	PJ/GWh	1.30	PJ
TOTAL					6.12	PJ
1.5 PAPER, PULP AND PRINTING						
COAL	0.29	kt	0.0293	PJ/kt	0.01	PJ
HARD COAL	0.29	kt	0.0293	PJ/kt	0.01	PJ
LPG	3.90	km ³	0.0279	PJ/km ³	0.11	PJ
DIESEL OIL	10.06	km ³	0.0383	PJ/km ³	0.39	PJ
FUEL OIL	126.19	km ³	0.0413	PJ/km ³	5.21	PJ
NATURAL GAS/LNG	122.48	Mm ³	0.0391	PJ/Mm ³	4.79	PJ
NATURAL GAS	122.48	Mm ³	0.0391	PJ/Mm ³	4.79	PJ
ELECTRICITY	3,862.77	GWh	0.0036	PJ/GWh	13.91	PJ
PUBLIC UTILITIES	3,862.77	GWh	0.0036	PJ/GWh	13.91	PJ
OTHERS	1,069.86	kt	0.0147	PJ/kt	15.73	PJ
TOTAL					40.14	PJ
1.6 OTHER INDUSTRIES						
COAL	556.04	kt	0.0293	PJ/kt	16.29	PJ
HARD COAL	556.04	kt	0.0293	PJ/kt	16.29	PJ
COKE	75.03	kt	0.0289	PJ/kt	2.17	PJ
LPG	200.00	km ³	0.0279	PJ/km ³	5.58	PJ
KEROSENE	24.25	km ³	0.0378	PJ/km ³	0.92	PJ
DIESEL OIL	601.45	km ³	0.0383	PJ/km ³	23.04	PJ
FUEL OIL	317.04	km ³	0.0413	PJ/km ³	13.09	PJ
NATURAL GAS/LNG	668.37	Mm ³	0.0391	PJ/Mm ³	26.13	PJ
NATURAL GAS	668.37	Mm ³	0.0391	PJ/Mm ³	26.13	PJ

Original Table (Disaggregated Final Energy Demand) of Chile in 2003 (Continued)

2003

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	8,506.94	GWh	0.0036	PJ/GWh	30.62	PJ
PUBLIC UTILITIES	8,506.94	GWh	0.0036	PJ/GWh	30.62	PJ
OTHERS	1,086.43	kt	0.0151	PJ/kt	16.41	PJ
TOTAL					134.25	PJ
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	646.42	km ³	0.0377	PJ/km ³	24.34	PJ
AVGAS	5.15	km ³	0.0325	PJ/km ³	0.17	PJ
TOTAL					24.51	PJ
2.2 ROAD						
MOGAS	2,881.38	km ³	0.0342	PJ/km ³	98.54	PJ
DIESEL OIL	3,065.42	km ³	0.0383	PJ/km ³	117.41	PJ
NATURAL GAS	27.51	Mm ³	0.0391	PJ/Mm ³	1.08	PJ
ELECTRICITY	134.88	GWh	0.0036	PJ/GWh	0.49	PJ
TOTAL					217.51	PJ
2.3 RAIL						
DIESEL OIL	22.08	km ³	0.0383	PJ/km ³	0.85	PJ
ELECTRICITY	84.88	GWh	0.0036	PJ/GWh	0.31	PJ
TOTAL					1.15	PJ
2.4 INTERNAL NAVIGATION						
DIESEL OIL	321.00	km ³	0.0383	PJ/km ³	12.29	PJ
FUEL OIL	946.47	km ³	0.0413	PJ/km ³	39.09	PJ
TOTAL					51.38	PJ
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
COAL	1.00	kt	0.0293	PJ/kt	0.03	PJ
LPG	326.63	km ³	0.0279	PJ/km ³	9.11	PJ
KEROSENE	1.99	km ³	0.0378	PJ/km ³	0.08	PJ
DIESEL OIL	27.00	km ³	0.0383	PJ/km ³	1.03	PJ
FUEL OIL	1.93	km ³	0.0413	PJ/km ³	0.08	PJ
NATURAL GAS	82.76	Mm ³	0.0391	PJ/Mm ³	3.24	PJ
TOWN GAS	35.09	Mm ³	0.0167	PJ/Mm ³	0.59	PJ
ELECTRICITY	5,815.09	GWh	0.0036	PJ/GWh	20.93	PJ
TOTAL					35.09	PJ
3.2 RESIDENTIAL						
LPG	1,213.50	km ³	0.0279	PJ/km ³	33.86	PJ
KEROSENE	104.87	km ³	0.0378	PJ/km ³	3.96	PJ
DIESEL OIL	12.35	km ³	0.0383	PJ/km ³	0.47	PJ
FUEL OIL	0.10	km ³	0.0413	PJ/km ³	0.00	PJ
NATURAL GAS	360.47	Mm ³	0.0391	PJ/Mm ³	14.09	PJ
TOWN GAS	47.37	Mm ³	0.0167	PJ/Mm ³	0.79	PJ
OTHER COMMERCIAL	8,215.86	kt	0.0147	PJ/kt	120.44	PJ
ELECTRICITY	7,339.50	GWh	0.0036	PJ/GWh	26.42	PJ
TOTAL					200.05	PJ

Original Table (Energy Price) of Chile in 2003

Year: 2003

Chile	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL	US\$/Ton	35	
COKING COAL			
CRUDE OIL	US\$/Bbl	30.1	
PETROLEUM PRODUCTS			
LPG	US\$/Bbl	32.1	
NAPHTHA			
MOGAS	US\$/Bbl	0.0	
JET FUEL	US\$/Bbl	41.7	
KEROSENE	US\$/Bbl	41.7	
DIESEL OIL	US\$/Bbl	40.7	
FUEL OIL	US\$/Bbl	28.0	
NATURAL GAS (LNG)	US\$/1000M3	77.5	
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS	US\$/M3	0.2	
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS			
JET FUEL	US\$/M3	332.1	
KEROSENE			
DIESEL OIL			
FUEL OIL	US\$/Ton	248.7	
LPG			
ELECTRICITY (INDUSTRY)	US\$/KWh	0.1	
ELECTRICITY (COMMERCIAL)	US\$/KWh	0.1	
CONSUMER PRICES			
COAL	US\$/Ton	55.0	
STEAM COAL			
NATURAL GAS	US\$/M3	0.6	
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	US\$/LT	0.7	
KEROSENE	US\$/LT	0.4	
DIESEL OIL	US\$/LT	0.5	
LPG	US\$/Kg	0.9	
ELECTRICITY (RESIDENTIAL)	US\$/KWh	0.1	

Prices December 2003

Chilean \$ / US\$; December 2003

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Original Table (Quarterly) of Chile in 2003

Coal		Unit: 1,000t			
		Production	Imports	Exports	Stock Changes
2003	JAN.	48	331	-	1
	FEB.	48	156	-	1
	MAR.	48	114	-	1
	1st quarter	144	601	-	3
	APR.	48	274	-	1
	MAY.	48	498	-	1
	JUN.	48	67	-	1
	2nd quarter	144	839	-	3
	JUL.	48	248	-	1
	AUG.	48	217	-	1
	SEP.	48	339	-	1
	3rd quarter	144	804	-	3
	OCT.	48	340	-	1
	NOV.	48	224	-	-
	DEC.	48	96	-	-
	4th quarter	144	660	-	1
			576	2,904	-

Oil		Unit: 1,000m ³						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	19	1,313		-11	269	203	-7
	FEB.	17	919		-12	63	79	-8
	MAR.	18	661		-11	173	234	-7
	1st quarter	54	2,893		-34	505	516	-22
	APR.	18	1,300		-11	142	146	-7
	MAY.	17	966		-12	229	102	-8
	JUN.	15	761		-11	300	134	-7
	2nd quarter	50	3,027		-34	671	382	-22
	JUL.	16	1,041		-11	346	90	-7
	AUG.	17	907		-12	495	196	-8
	SEP.	17	782		-12	325	257	-8
	3rd quarter	50	2,730		-35	1,166	543	-23
	OCT.	19	1,263		-11	103	141	-7
	NOV.	18	885		-12	85	291	-8
	DEC.	19	908		-11	90	222	-7
	4th quarter	56	3,056		-34	278	654	-22
			210	11,706	-	-137	2,620	2,095

Original Table (Quarterly) of Chile in 2003 (Continued)

Natural Gas (or LNG)		Unit: 1,000m ³			
		Production	Imports	Exports	Stock Changes
2003	JAN.	196,297	627,368	-	29,541
	FEB.	176,816	373,716	-	17,597
	MAR.	195,470	491,529	-	23,145
	1st quarter	568,583	1,492,613	-	70,283
	APR.	190,787	445,702	-	24,614
	MAY.	190,401	707,959	-	21,275
	JUN.	183,962	423,013	-	25,348
	2nd quarter	565,150	1,576,674	-	71,237
	JUL.	157,648	498,995	-	23,497
	AUG.	188,071	424,305	-	19,980
	SEP.	186,300	589,551	-	27,761
	3rd quarter	532,019	1,512,851	-	71,238
	OCT.	186,078	522,733	-	20,987
	NOV.	152,875	451,822	-	33,336
	DEC.	171,343	538,307	-	19,919
	4th quarter	510,296	1,512,862	-	74,242
		2,176,048	6,095,000	-	287,000

Electricity		Unit: GWh						
		Gross Generation				Imports	Exports	
		Total	Thermal	Hydro	Nuclear			Others
2003	JAN.	3,888	1,599	2,289	-	-	157	-
	FEB.	3,589	1,782	1,807	-	-	146	-
	MAR.	4,040	2,137	1,903	-	-	164	-
	1st quarter	11,517	5,518	5,999	-	-	467	-
	APR.	3,884	2,208	1,676	-	-	157	-
	MAY.	3,931	2,324	1,607	-	-	165	-
	JUN.	3,847	1,963	1,884	-	-	159	-
	2nd quarter	11,662	6,495	5,167	-	-	481	-
	JUL.	4,044	1,885	2,159	-	-	168	-
	AUG.	3,931	2,112	1,819	-	-	168	-
	SEP.	3,755	1,992	1,763	-	-	160	-
	3rd quarter	11,730	5,989	5,741	-	-	496	-
	OCT.	4,008	2,102	1,906	-	-	155	-
	NOV.	3,870	2,007	1,863	-	-	174	-
	DEC.	4,042	2,115	1,927	-	-	178	-
	4th quarter	11,920	6,224	5,696	-	-	507	-
		46,829	24,226	22,603	-	-	1,951	-

Note: ton=Metric ton.

bbf=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.5 China

Energy Balance Table of China in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	791,841	-	161,123	-	-	-	-	-	-
2 Import	5,582	1	86,471	36,663	-	-	-	2,057	822
3 Export	-46,386	-9,510	-7,727	-14,557	-7,380	-	-	-1,973	-2,170
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-2,398	-245	-585	-24	349	-	-	173	654
6 Total Primary Energy Supply	748,638	-9,753	239,282	22,082	-7,031	-	-	257	-694
7 Public Electricity	-405,744	-622	-998	-17,263	-	-	-	-	-2,629
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-5,746	475	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-227,028	219,768	46,878	-	-	8,369	82,680
11 Coal Transformation	-130,259	128,818	-	-	-	-	-	-	-
12 Loss & Own Use	-35,794	-1,671	-8,072	-43,827	-1,158	-	-	-235	-3,672
13 Discrepancy	29,468	-6,254	-2,013	51	-8	-	-	422	-503
14 Total Final Energy Consumption	200,563	110,992	1,172	180,811	38,681	-	-	8,814	75,182
15 Industry Sector	140,573	97,557	970	32,674	4,883	-	-	624	11,435
16 Transport Sector	5,067	73	130	67,401	18,216	-	-	6,083	33,771
17 Other Sector	49,979	7,793	12	59,648	14,372	-	-	2,076	27,110
18 Agriculture	7,996	911	-	16,310	1,908	-	-	13	14,383
19 Residential & Commercial	38,194	6,694	1	24,633	4,274	-	-	662	4,103
20 Other	3,789	188	11	18,705	8,190	-	-	1,401	8,624
21 Non-energy	4,944	5,570	-	16,946	103	-	-	30	-

Energy Balance Table of China in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	655,513	-	158,653	-	-	-	-	-	-
2 Import	5,361	-	65,937	28,817	-	-	-	2,099	462
3 Export	-41,597	-8,766	-7,282	-11,666	-5,990	-	-	-1,660	-1,199
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-5,374	-425	-999	1,947	581	-	-	52	797
6 Total Primary Energy Supply	613,903	-9,191	216,310	19,099	-5,410	-	-	491	60
7 Public Electricity	-346,360	-716	-865	-15,365	-	-	-	-	-2,190
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-5,356	644	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-205,520	198,767	42,278	-	-	8,083	74,670
11 Coal Transformation	-105,135	104,248	-	-	-	-	-	-	-
12 Loss & Own Use	-20,777	-1,385	-6,951	-16,373	-1,079	-	-	-234	-3,739
13 Discrepancy	47,837	-3,371	-1,799	3,306	-185	-	-	420	-443
14 Total Final Energy Consumption	184,112	90,229	1,175	189,434	35,604	-	-	8,760	68,359
15 Industry Sector	104,776	77,754	935	30,964	5,006	-	-	595	10,595
16 Transport Sector	4,550	77	164	57,987	14,711	-	-	6,035	28,728
17 Other Sector	46,484	7,045	13	57,759	14,601	-	-	2,105	26,347
18 Agriculture	6,900	911	-	16,239	1,839	-	-	14	14,383
19 Residential & Commercial	36,276	5,936	1	22,209	3,797	-	-	721	3,534
20 Other	3,308	198	12	19,311	8,966	-	-	1,370	8,430
21 Non-energy	3,593	4,842	-	38,339	88	-	-	26	-

Energy Balance Table of China in 2003 (Continued)

													ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13	
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	29,339	-	24,405	11,295	-	4,629	-	-	1,022,632	
22,757	7,259	-	3,767	-	-	-	-	-	-	256	-	128,973	
-723	-27	-	-2,282	-1,569	-	-	-	-	-	-889	-	-80,639	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-1,088	-113	-	-	-	-	-	-	-	-	-	-	-3,252	
20,946	7,119	-	1,484	27,770	-	24,405	11,295	-	4,629	-633	-	1,067,714	
-12,517	-18	-1,432	-668	-2,282	-	-24,405	-11,295	-	-1,937	164,092	42,322	-258,133	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	11,825	-	-	-	-	-	-	6,554	
19,046	13,814	7,442	41,539	-	-	-	-	-	-	-	-	-7,259	
-	-	-	-	-	-	-	-	-	-	-	-	-1,441	
-5,532	-2,108	-4,903	-26,218	-7,590	-1,009	-	-	-	-325	-36,099	-8,887	-143,273	
-96	-340	594	-18	6,179	-1,259	-	-	-	-208	270	-53	26,181	
21,848	18,466	1,702	16,119	24,076	9,557	-	-	-	2,159	127,630	33,382	690,342	
12,502	2,008	1,221	-	12,993	7,804	-	-	-	-	83,480	24,033	400,084	
8,933	399	-	-	147	6	-	-	-	-	3,415	204	76,442	
244	15,846	-	-	5,341	1,747	-	-	-	-	32,532	9,146	166,197	
6	-	-	-	-	-	-	-	-	-	67	17	25,300	
124	15,470	-	-	5,341	1,747	-	-	-	-	24,621	8,405	109,635	
115	375	-	-	-	-	-	-	-	-	7,844	724	31,261	
-	213	481	16,119	5,595	-	-	-	-	2,159	-	-	35,214	

Energy Balance Table of China in 2002 (Continued)

													ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13	
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	-	-	-	27,367	-	24,774	6,548	-	4,510	-	-	877,366	
15,767	7,138	-	3,350	-	-	-	-	-	-	198	-	100,314	
-607	-64	-	-2,146	-	-	-	-	-	-	-835	-	-70,145	
-	-	-	-	-	-	-	-	-	-	-	-	-	
447	72	-	-	-	-	-	-	-	-	-	-	-4,851	
15,607	7,146	-	1,204	27,367	-	24,774	6,548	-	4,510	-637	-	902,683	
-11,204	-18	-1,395	-559	-2,352	-2,284	-24,774	-6,548	-	-1,804	141,130	39,192	-220,746	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	11,192	-	-	-	-	-	-	6,480	
17,533	11,820	7,272	37,112	-	-	-	-	-	-	-	-	-6,753	
-	-	-	-	-	-	-	-	-	-	-	-	-887	
-4,880	-1,685	-4,757	-	-6,776	-1,032	-	-	-	-	-31,451	-9,312	-94,058	
3,483	-516	547	0	2,059	776	0	-	-	-531	-312	-45	47,921	
20,539	16,747	1,667	37,757	20,297	8,652	-	-	-	2,176	108,730	29,835	634,640	
11,770	1,798	1,200	-	10,340	6,955	-	-	-	-	69,687	22,265	323,676	
8,285	228	-	-	131	4	-	-	-	-	2,908	194	66,014	
302	14,404	-	-	4,798	1,693	-	-	-	-	34,741	7,377	159,909	
4	-	-	-	-	-	-	-	-	-	6,683	16	30,749	
117	14,040	-	-	4,798	1,693	-	-	-	-	21,527	6,703	99,142	
181	364	-	-	-	-	-	-	-	-	6,531	659	30,018	
-	-	468	37,757	5,029	-	-	-	-	2,176	-	-	53,979	

Major Energy Indicators of China

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	399,640	465,893	500,652	529,807	563,520	602,794	616,400	621,246	629,562
Indigenous Production	414,121	503,593	553,754	570,177	589,295	618,777	656,184	670,463	674,663
Import	1,733	2,027	1,970	4,284	3,918	5,736	11,088	8,014	11,125
Export	-20,336	-30,725	-38,387	-36,382	-36,354	-36,375	-36,440	-36,976	-50,562
Final Energy Consumption	301,391	360,290	388,087	395,200	420,398	451,038	465,824	469,304	511,780
Industry	205,656	241,048	257,297	262,915	281,354	301,324	314,576	316,812	322,300
Transport	14,248	21,620	23,037	24,190	25,275	26,341	27,273	27,290	29,167
Residential & Commercial	71,863	88,262	98,865	98,701	103,452	112,550	112,266	112,119	125,996
Agriculture	9,624	9,361	8,888	9,309	10,228	10,725	11,613	12,270	26,502
Coal, Coal Products									
Primary Energy Supply	297,182	363,846	392,470	415,912	444,052	474,055	481,588	486,547	488,506
Indigenous Production	294,577	374,892	414,343	424,677	440,792	465,450	500,728	512,955	516,528
Import	945	1,183	1,109	922	815	805	944	833	650
Export	-3,177	-3,542	-3,929	-3,541	-5,122	-6,558	-6,983	-7,395	-23,501
Transformation Sector	-64,623	-79,250	-82,273	-107,058	-119,150	-129,730	-122,039	-152,861	-171,769
Power Generation	-54,629	-69,044	-70,429	-78,272	-88,810	-98,068	-105,054	-113,794	-145,863
Final Energy Consumption	213,919	263,032	283,383	282,342	298,886	319,642	326,715	325,981	345,920
Industry	138,597	170,747	182,027	182,300	195,150	208,752	217,621	217,747	224,049
Transport	9,606	11,322	11,491	10,823	10,746	10,884	11,002	10,504	10,302
Residential & Commercial	65,715	80,963	89,866	89,134	92,901	99,908	97,996	97,005	99,783
Agriculture	-	-	-	-	-	-	-	-	11,068
Crude Oil									
Primary Energy Supply	87,619	87,307	90,409	97,067	101,610	106,421	110,276	111,936	117,812
Indigenous Production	100,650	108,884	118,653	124,156	127,434	130,196	130,762	131,526	133,945
Import	348	-	-	433	-	812	3,100	2,780	5,674
Export	-12,644	-21,179	-28,529	-27,073	-25,865	-24,743	-23,169	-22,813	-21,126
Transformation Sector	-80,210	-81,571	-84,252	-90,306	-95,323	-99,501	-102,842	-105,420	-115,364
Petroleum Refineries	-74,757	-78,386	-81,596	-87,971	-92,865	-97,276	-101,295	-104,236	-110,577
Petroleum Products									
Primary Energy Supply	-4,055	-5,077	-2,985	-4,515	-3,210	-813	-158	-3,220	-1,190
Import	440	844	861	2,929	3,103	4,119	7,044	4,402	4,533
Export	-4,515	-6,004	-5,929	-5,768	-5,367	-5,073	-6,288	-6,766	-5,913
Transformation Sector	57,329	61,868	58,169	74,342	78,965	81,375	85,216	89,031	84,298
Power Generation	-14,182	-13,546	-10,907	-10,538	-10,622	-12,192	-12,239	-10,583	-14,330
Petroleum Refineries	74,009	77,737	71,432	87,127	91,756	96,070	99,844	102,039	108,604
Final Energy Consumption	47,242	53,389	58,169	62,297	67,087	71,389	75,301	76,714	92,547
Industry	31,236	32,175	36,031	37,789	40,733	42,994	44,772	45,481	42,776
Transport	4,406	9,933	10,993	12,767	13,844	14,637	15,397	15,833	17,692
Residential & Commercial	4,298	4,400	4,986	5,201	5,375	6,292	7,048	6,717	13,704
Agriculture	7,302	6,881	6,159	6,540	7,135	7,467	8,083	8,599	11,308
Natural Gas, Town Gas									
Primary Energy Supply	11,957	10,415	10,834	11,530	10,834	11,949	12,611	12,818	13,465
Indigenous Production	11,957	10,415	10,834	11,530	10,834	11,949	12,611	12,818	13,465
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-335	-419	131	-21	18	60	221	195	-3,080
Power Generation	-201	-168	-226	-394	-637	-478	-863	-612	-561
Final Energy Consumption	10,942	9,611	9,953	10,410	10,913	11,521	11,407	11,885	9,244
Industry	10,725	9,184	9,219	9,595	9,879	10,031	9,702	9,976	7,372
Transport	8	8	8	25	25	50	25	42	42
Residential & Commercial	209	419	726	790	1,009	1,440	1,680	1,867	1,823
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	25,939	32,423	35,322	38,657	42,764	46,884	50,294	53,421	58,234
Thermal	20,848	24,958	27,375	30,530	34,164	37,501	40,112	42,525	47,512
Hydro	5,091	7,465	7,946	8,127	8,600	9,383	10,182	10,896	10,722
Nuclear	-	-	-	-	-	-	-	-	1
Final Energy Consumption	23,360	29,466	32,182	35,444	39,264	43,212	46,326	49,285	45,046
Industry	19,169	24,150	25,620	28,524	31,344	34,272	36,405	38,173	32,407
Transport	228	356	545	575	660	770	849	911	1,008
Residential & Commercial	1,641	2,479	3,287	3,577	4,168	4,911	5,542	6,531	7,504
Agriculture	2,322	2,480	2,730	2,768	3,093	3,259	3,530	3,670	4,126

Major Energy Indicators of China (Continued)

ktoe											
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
659,882	714,340	753,997	815,445	849,573	810,447	804,544	727,709	721,070	792,193	902,683	1,067,714
689,889	712,609	761,053	827,994	851,421	805,575	791,297	695,018	679,289	765,295	877,366	1,022,632
19,692	33,457	25,898	33,648	42,185	60,346	53,513	60,191	91,670	85,606	100,314	128,973
-49,480	-33,964	-36,191	-42,086	-47,286	-45,522	-45,245	-40,626	-57,181	-72,109	-70,145	-80,639
539,663	568,381	581,487	630,083	654,385	609,488	553,748	544,177	522,781	536,784	634,640	690,342
343,018	337,983	351,367	390,887	398,232	361,224	337,801	326,652	290,396	294,060	323,676	400,084
30,824	31,915	31,794	34,627	34,789	42,018	47,944	55,085	59,233	61,015	66,014	76,442
124,763	98,651	94,389	102,200	112,904	99,242	79,456	87,847	88,267	91,693	99,142	109,635
24,464	23,561	24,970	27,233	27,654	27,310	27,376	27,856	27,857	29,155	30,749	25,300
507,408	546,118	582,015	626,218	646,157	594,621	575,292	484,216	457,536	515,473	604,712	738,884
530,291	546,580	588,965	646,360	663,445	619,497	593,762	496,385	474,059	551,385	655,513	791,841
1,402	678	574	777	1,528	908	766	829	1,072	1,309	5,361	5,583
-23,288	-11,098	-14,101	-19,318	-22,295	-20,360	-23,347	-24,919	-36,823	-53,147	-50,363	-55,896
-190,274	-209,908	-239,363	-263,064	-303,920	-293,867	-276,233	-312,446	-324,153	-336,829	-374,837	-450,544
-163,379	-182,747	-201,179	-221,442	-242,979	-231,173	-231,153	-272,640	-290,229	-305,925	-347,076	-406,366
368,891	374,110	378,388	403,859	408,095	350,251	294,496	272,239	240,267	237,619	274,341	311,554
239,440	246,290	257,433	285,189	283,634	249,403	221,018	201,543	176,848	173,860	182,530	238,130
9,787	8,918	7,716	6,700	5,991	6,927	6,190	5,645	4,673	4,355	4,626	5,140
93,548	79,615	72,679	77,853	83,980	68,430	43,939	45,357	40,732	40,585	42,212	44,888
9,562	9,071	9,802	10,641	10,543	10,213	9,438	8,365	7,526	7,361	7,811	8,907
124,989	132,798	132,947	140,555	151,249	157,937	164,514	180,002	203,142	204,604	216,310	239,282
134,995	137,918	138,780	142,545	149,470	145,072	152,953	152,003	154,853	155,764	158,653	161,123
10,792	14,888	11,729	16,236	21,486	32,012	25,955	34,784	66,753	57,248	65,937	86,471
-20,435	-18,463	-17,567	-17,316	-19,383	-17,896	-14,820	-6,809	-9,791	-7,173	-7,282	-7,727
-123,689	-125,399	-126,882	-136,987	-144,821	-151,115	-159,581	-179,428	-199,736	-200,547	-213,336	-236,097
-119,144	-124,456	-126,198	-136,360	-144,070	-150,401	-158,641	-173,194	-193,401	-194,286	-205,520	-227,028
2,462	6,936	5,903	10,047	13,970	17,495	20,772	17,616	10,733	14,691	19,099	22,082
7,069	17,503	13,436	16,579	19,160	27,418	26,790	24,546	23,712	26,894	28,817	36,663
-5,748	-4,392	-4,188	-4,934	-5,289	-6,646	-6,461	-8,112	-9,718	-10,912	-11,666	-14,557
89,345	90,192	94,988	103,699	111,244	113,970	103,977	119,153	137,329	138,659	167,029	158,678
-14,561	-19,192	-15,946	-16,181	-15,005	-17,699	-15,932	-14,669	-14,056	-14,439	-15,365	-17,263
115,288	122,157	123,005	133,553	140,659	147,350	154,544	168,887	188,210	190,249	198,767	219,768
90,497	101,268	104,756	115,798	127,639	135,948	128,399	141,149	149,266	153,383	189,434	180,811
43,745	26,805	27,078	28,518	30,120	25,702	29,697	40,561	30,267	30,234	30,964	32,674
19,703	21,673	22,603	26,303	26,994	32,874	39,533	46,844	51,714	53,557	57,987	67,401
16,600	5,867	6,180	8,220	10,588	10,933	11,906	17,804	19,277	19,909	22,209	24,633
10,409	10,317	10,567	11,576	11,768	11,580	12,562	13,797	14,523	15,217	16,239	16,310
13,230	14,048	14,713	15,038	16,854	17,121	19,505	21,113	22,791	25,413	27,367	27,770
13,230	14,048	14,713	15,038	16,854	17,121	19,505	21,113	22,791	25,413	27,367	29,339
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-1,569
-3,061	-224	-2,933	6,765	7,115	3,411	2,686	1,160	-2,757	-6,528	-1,252	944
-687	-898	-1,091	-1,640	-2,311	-2,319	-3,472	-1,848	-2,468	-2,464	-4,636	-2,282
9,742	17,243	16,003	24,900	26,486	21,241	25,167	22,809	23,497	27,285	28,949	33,634
7,579	10,098	8,382	18,827	19,570	15,515	15,594	14,719	15,292	16,515	17,295	20,798
34	65	65	56	102	16	22	67	88	105	135	152
2,130	2,886	3,084	2,714	2,613	2,688	5,038	3,930	4,665	5,684	6,491	7,088
-	34	34	2	19	-	-	-	-	-	-	-
64,728	72,228	79,815	86,695	92,914	97,599	100,328	106,617	116,622	126,607	141,130	164,092
53,446	58,813	64,150	69,196	75,510	79,498	81,221	87,798	96,049	101,237	114,195	135,960
11,237	13,277	14,458	16,395	16,171	16,860	17,894	17,534	19,134	23,867	24,774	24,405
45	138	1,208	1,104	1,233	1,240	1,213	1,286	1,439	1,503	2,161	3,727
49,953	55,291	57,270	60,634	65,529	74,269	77,188	81,729	81,780	88,863	108,730	127,630
35,537	38,391	37,684	40,300	43,696	49,417	49,723	51,855	48,936	52,826	69,687	83,480
1,170	1,258	1,411	1,568	1,702	2,201	2,199	2,192	2,419	2,661	2,908	3,415
8,753	7,506	8,997	10,367	11,667	13,062	13,918	15,688	17,777	19,657	21,527	24,621
4,493	4,137	4,563	5,011	5,319	5,504	5,364	5,681	5,794	6,564	6,683	67

Major Economic Indicators of People's Republic of China

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	981.24	1,036.83	1,051.04	1,066.79	1,084.04	1,101.63	1,118.65	1,135.19
Gross Domestic Product *4								
Real Term (Billions of 1995 Price and 1995 USD)	163.60	239.89	272.28	296.24	330.60	367.96	383.05	397.60
Real Term (Billions of 1995 Price and 1995 PPP)	700.50	1,027.15	1,165.81	1,268.40	305.78	1,575.49	1,640.09	1,702.41
Nominal (Billions of Current USD)	301.51	309.09	305.26	295.48	321.39	401.07	449.10	387.77
GDP per Capita *4								
Real Term (1995 Price and 1995 USD)	167	231	259	278	305	334	342	350
Real Term (1995 Price and 1995 PPP)	714	991	1,109	1,189	1,306	1,430	1,466	1,500
Nominal (Current USD)	307	298	290	277	296	364	401	342
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	451.78	717.10	896.44	1,020.22	1,196.25	1,492.83	1,690.92	1,854.79
Household Final Consumption Expenditure, etc.	231.71	367.45	458.90	517.50	596.72	763.31	852.35	911.32
General Government Final Consumption Expenditure	65.90	102.00	118.40	136.70	149.00	172.70	203.30	225.20
Gross Fixed Capital Formation	131.80	212.56	264.10	309.80	374.20	462.40	433.90	473.20
Stock Change	27.20	34.30	74.50	74.80	58.00	87.10	175.60	171.20
Exports of Goods and Services	48.40	81.31	89.64	120.59	195.65	254.53	282.34	355.49
Imports of Goods and Services	50.06	81.71	126.69	149.91	196.02	275.26	299.64	290.46
Real GDP & its Components (Billions of 1990 CNY) *1								
Gross Domestic Product	763.20	1,119.08	1,270.16	1,381.93	1,542.24	1,716.51	1,786.89	1,854.79
Household Final Consumption Expenditure, etc.	400.80	586.72	672.33	714.65	766.67	835.48	844.42	887.43
General Government Final Consumption Expenditure	93.61	143.60	161.69	181.09	191.78	199.64	206.23	225.20
Gross Fixed Capital Formation	231.35	331.34	384.02	423.19	485.83	529.06	457.64	473.20
Stock Change	50.36	60.59	119.60	116.19	85.38	108.97	188.05	171.20
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 (%) *4								
Agriculture, Fishery and Forest	36.1	35.9	32.2	30.6	28.7	26.4	26.2	27.0
Industry	40.8	37.8	39.5	40.0	40.8	42.0	41.8	41.6
Services, etc.	24.0	28.1	29.2	30.1	30.9	31.4	31.8	31.3
Industrial Production Index (1995=100) *4	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.	18,099	26,139	27,350	30,942	39,437	47,516	52,538	62,091
Imports, c.i.f.	19,941	27,410	42,252	42,904	43,216	55,268	59,142	53,345
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	0.014	-13.123	-9.140	-1.661	-5.315	-5.620	9.165
Current Account	N.A.	2.030	-11.417	-7.034	0.300	-3.802	-4.317	11.997
Overall Balance	N.A.	0.138	-2.440	-2.048	4.783	2.374	-0.479	12.047
Foreign Exchange Rate (CNY/USD) *1	1.4984	2.3200	2.9367	3.4528	3.7221	3.7221	3.7651	4.7832
Purchasing Power Parity (CNY/International Dollar) *1	1.1185	0.9723	1.0367	1.0578	1.0809	1.1720	1.2298	1.2540
Price Indices								
GDP Deflator (1990=100) *4	59.2	64.1	70.6	73.8	77.6	87.0	94.6	100.0
Wholesale Price Index (1995=100) *4	29.6	30.0	32.6	33.8	36.5	41.9	49.7	51.8
Consumer Price Index (1995=100) *4	30.4	33.1	36.0	38.1	40.9	48.5	57.1	58.3
Growth Rate (%)								
Real GDP *4	7.80	15.20	13.50	8.80	11.60	11.30	4.10	3.80
Population *4	1.26	1.32	1.37	1.50	1.62	1.62	1.54	1.48
Price *4								
Wholesale Price Index	0.5	1.4	8.7	3.8	7.9	15.0	18.6	4.1
Consumer Price Index	6.0	2.8	8.8	6.0	7.3	18.5	17.8	2.1

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

Major Economic Indicators of People's Republic of China (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1,150.78	1,164.97	1,178.44	1,191.84	1,204.86	1,217.55	1,230.08	1,241.94	1,253.74	1,262.65	1,271.85	1,280.40	1,288.40
434.18	495.83	562.77	633.68	700.22	767.44	834.97	900.10	964.01	1,041.13	1,119.21	1,212.11	1,324.77
1,859.03	2,123.02	2,409.62	2,713.24	2,998.13	3,285.95	3,575.11	3,853.97	4,127.60	4,457.81	4,792.15	5,189.89	5,672.29
406.09	483.05	601.09	542.53	700.22	816.49	898.24	946.32	991.36	1,080.73	1,175.72	1,271.00	1,417.00
377	426	478	532	581	630	679	725	769	825	880	947	1,028
1,615	1,822	2,045	2,277	2,488	2,699	2,906	3,103	3,292	3,531	3,768	4,053	4,403
353	415	510	455	581	671	730	762	791	856	924	993	1,100
2,161.78	2,663.81	3,463.44	4,675.94	5,847.81	6,788.46	7,446.26	7,834.52	8,206.74	8,946.81	9,731.48	10,520.01	11,728.56
1,031.59	1,245.98	1,568.24	2,080.98	2,694.45	3,215.23	3,485.46	3,692.11	3,933.44	4,289.56	4,589.81	4,853.45	5,228.02
283.00	349.23	449.97	598.62	669.05	785.16	872.49	948.48	1,038.83	1,170.53	1,302.93	1,383.01	1,477.12
594.00	831.70	1,298.00	1,685.60	2,030.05	2,333.61	2,515.42	2,763.08	2,947.55	3,262.38	3,681.33	4,216.83	5,188.19
157.70	131.90	201.80	240.43	357.65	353.11	330.34	191.51	122.61	-12.40	64.75	18.71	1.85
452.94	600.04	823.33	1,184.02	1,402.70	1,427.37	1,717.97	1,717.29	1,829.21	2,314.32	2,478.23	3,024.36	4,014.39
375.04	552.61	896.59	1,096.38	1,268.32	1,281.44	1,362.98	1,354.37	1,575.55	2,075.29	2,245.78	2,714.95	3,715.76
2,025.43	2,313.04	2,625.30	2,956.09	3,266.48	3,580.06	3,895.11	4,198.93	4,497.05	4,856.81	5,221.07	5,654.42	6,180.00
974.15	1,114.09	1,218.31	1,312.11	1,444.81	1,618.96	1,707.22	1,822.63	1,968.69	2,138.36	2,272.18	2,422.07	2,578.06
268.66	305.20	332.98	363.28	384.71	395.35	427.36	468.22	519.93	583.51	645.01	690.18	728.40
547.49	678.34	846.57	996.42	1,131.93	1,230.69	1,315.81	1,480.88	1,615.17	1,771.00	1,975.08	2,266.51	2,733.76
149.75	108.84	136.62	140.16	180.81	186.22	172.80	102.64	67.19	-6.73	34.74	10.06	0.97
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	755.04	809.12	931.82	1,216.64	1,333.71	1,726.00	2,188.16
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	766.72	790.54	969.15	1,206.56	1,336.64	1,704.52	2,126.58
25.4	23.3	21.5	19.9	19.0	18.2	17.3	16.6	15.9	15.1	14.4	13.7	12.0
43.4	46.1	48.7	51.2	52.7	53.9	54.8	55.3	55.9	56.6	57.1	57.8	59.6
31.2	30.7	30.0	29.2	28.6	28.2	28.3	28.4	28.5	28.6	28.8	28.9	28.4
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
71.910	84.940	91.744	121.006	148.780	151.048	182.792	183.712	194.931	249.203	266.098	325.591	437.899
63.791	80.585	103.959	115.615	132.084	138.833	142.370	140.237	165.699	225.094	243.553	295.171	413.062
8.743	5.183	-10.654	7.290	18.050	19.535	46.222	46.614	35.982	34.474	34.017	44.167	44.652
13.272	6.401	-11.609	6.908	1.618	7.243	36.963	31.472	21.115	20.518	17.401	35.422	45.875
14.537	-2.060	1.769	30.453	22.469	31.705	35.857	6.248	8.652	10.693	47.447	75.217	116.586
5.3234	5.5146	5.7620	8.6187	8.3514	8.3142	8.2898	8.2790	8.2783	8.2785	8.2771	8.2770	8.2770
1.2923	1.3609	1.5199	1.7852	1.9505	2.0306	2.0196	1.9390	1.8752	1.8544	1.8276	1.8049	1.8195
106.7	115.2	131.9	158.2	179.0	189.6	191.2	186.6	182.5	184.2	186.4	186.0	189.8
55.0	58.7	72.8	87.0	100.0	102.9	102.6	98.4	96.0	98.7	97.4	95.3	97.5
60.0	63.2	71.6	87.1	100.0	106.1	106.9	104.2	101.0	99.5	98.7	97.4	97.4
9.20	14.20	13.50	12.60	10.50	9.60	8.80	7.80	7.10	8.00	7.50	8.30	9.29
1.37	1.23	1.16	1.14	1.09	1.05	1.03	0.96	0.95	0.71	0.73	0.67	0.62
6.2	6.8	24.0	19.5	14.9	2.9	-0.3	-4.1	-2.4	2.8	-1.3	-2.2	2.3
2.9	5.4	13.2	21.7	14.8	6.1	0.8	-2.6	-3.0	-1.5	-0.8	-1.3	-0.1

Original Table (Energy Demand and Supply) of China in 2003

Year:2003

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	166,700.00	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	113,120.12	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	16,959.98	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	23,017.58	10 ⁴ TCE
CRUDE OIL	16,959.98	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	23,017.58	10 ⁴ TCE
NATURAL GAS AND LNG	35,015.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	4,191.30	10 ⁴ TCE
NATURAL GAS	35,015.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	4,191.30	10 ⁴ TCE
HYDRO POWER	283,681.00	GWh	0.0123	10 ⁴ TCE/GWh	3,486.44	10 ⁴ TCE
NUCLEAR POWER	43,342.00	GWh	0.0372	10 ⁴ TCE/GWh	1,613.56	10 ⁴ TCE
OTHERS	661.23	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	661.23	10 ⁴ TCE
TOTAL PRODUCTION					146,090.23	10 ⁴ TCE
OPENING STOCKS						
TOTAL OPENING STOCKS						10 ⁴ TCE
CLOSING STOCKS						
TOTAL CLOSING STOCKS						10 ⁴ TCE
STOCK CHANGE						
COAL	-504.93	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	-342.64	10 ⁴ TCE
COKE	-37.91	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	-34.98	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	-61.57	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	-83.56	10 ⁴ TCE
CRUDE OIL	-61.57	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	-83.56	10 ⁴ TCE
LPG	-9.89	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	-16.11	10 ⁴ TCE
MOGAS	35.67	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	49.86	10 ⁴ TCE
KEROSENE	17.73	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	24.78	10 ⁴ TCE
DIESEL OIL	67.50	10 ⁴ T	1.3843	10 ⁴ TCE/10 ⁴ T	93.44	10 ⁴ TCE
FUEL OIL	-114.48	10 ⁴ T	1.3571	10 ⁴ TCE/10 ⁴ T	-155.37	10 ⁴ TCE
TOTAL STOCK CHANGE					-464.57	10 ⁴ TCE
IMPORTS						
COAL	1,109.77	10 ⁴ T	0.7185	10 ⁴ TCE/10 ⁴ T	797.38	10 ⁴ TCE
COKE	0.17	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	0.16	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	9,102.01	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	12,352.97	10 ⁴ TCE
CRUDE OIL	9,102.01	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	12,352.97	10 ⁴ TCE
LPG	636.74	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	1,036.99	10 ⁴ TCE
KEROSENE	210.27	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	293.92	10 ⁴ TCE
DIESEL OIL	84.85	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	117.45	10 ⁴ TCE
FUEL OIL	2,395.45	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	3,251.04	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	432.14	10 ⁴ T	1.2452	10 ⁴ TCE/10 ⁴ T	538.12	10 ⁴ TCE
ELECTRICITY	2,980.00	GWh	0.0123	10 ⁴ TCE/GWh	36.64	10 ⁴ TCE
TOTAL IMPORTS					18,424.67	10 ⁴ TCE
EXPORTS						
COAL	9,402.89	10 ⁴ T	0.7047	10 ⁴ TCE/10 ⁴ T	6,626.62	10 ⁴ TCE
COKE	1,472.11	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	1,358.50	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	813.33	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,103.83	10 ⁴ TCE
CRUDE OIL	813.33	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,103.83	10 ⁴ TCE
LPG	2.40	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	3.91	10 ⁴ TCE
MOGAS	754.24	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	1,054.30	10 ⁴ TCE
KEROSENE	201.69	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	281.93	10 ⁴ TCE
DIESEL OIL	224.00	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	310.07	10 ⁴ TCE
FUEL OIL	76.14	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	103.33	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	261.84	10 ⁴ T	1.2453	10 ⁴ TCE/10 ⁴ T	326.06	10 ⁴ TCE
NATURAL GAS AND LNG	18.73	10 ⁸ CM	11.9700	10 ⁴ TCE/10 ⁸ CM	224.20	10 ⁴ TCE
NATURAL GAS	18.73	10 ⁸ CM	11.9700	10 ⁴ TCE/10 ⁸ CM	224.20	10 ⁴ TCE
ELECTRICITY	10,339.00	GWh	0.0123	10 ⁴ TCE/GWh	127.06	10 ⁴ TCE
TOTAL EXPORTS					11,519.81	10 ⁴ TCE
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					152,530.52	10 ⁴ TCE
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	23,639.86	10 ⁴ T	0.7872	10 ⁴ TCE/10 ⁴ T	18,608.42	10 ⁴ TCE
REFINING						
CRUDE OIL AND NGL/CONDENSATE	23,844.00	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	32,360.36	10 ⁴ TCE
CRUDE OIL	23,844.00	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	32,360.36	10 ⁴ TCE
OTHERS	76.00	10 ⁴ T	0.9500	10 ⁴ TCE/10 ⁴ T	72.20	10 ⁴ TCE
GAS PROCESSING						
COAL	1,054.81	10 ⁴ T	0.7782	10 ⁴ TCE/10 ⁴ T	820.85	10 ⁴ TCE
COKE	177.85	10 ⁴ T	0.9229	10 ⁴ TCE/10 ⁴ T	164.13	10 ⁴ TCE
POWER GENERATION (PUBLIC UTILITIES)						
COAL	87,571.92	10 ⁴ T	0.6619	10 ⁴ TCE/10 ⁴ T	57,963.41	10 ⁴ TCE
COKE OVEN GAS	16.08	10 ⁴ T	5.5287	10 ⁴ TCE/10 ⁴ T	88.90	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	105.00	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	142.51	10 ⁴ TCE
CRUDE OIL	105.00	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	142.51	10 ⁴ TCE
REFINERY GAS	137.03	10 ⁴ T	1.4928	10 ⁴ TCE/10 ⁴ T	204.56	10 ⁴ TCE
LPG	1.56	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	2.54	10 ⁴ TCE
DIESEL OIL	271.28	10 ⁴ T	1.3843	10 ⁴ TCE/10 ⁴ T	375.52	10 ⁴ TCE
FUEL OIL	1,317.52	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,788.10	10 ⁴ TCE
NATURAL GAS AND LNG	2,724.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	326.06	10 ⁴ TCE
NATURAL GAS	2,724.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	326.06	10 ⁴ TCE
HYDRO POWER	283,681.00	GWh	0.0123	10 ⁴ TCE/GWh	3,486.44	10 ⁴ TCE
NUCLEAR POWER	43,342.00	GWh	0.0372	10 ⁴ TCE/GWh	1,613.56	10 ⁴ TCE
OTHERS	276.73	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	276.73	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	76.67	10 ⁴ T	1.2453	10 ⁴ TCE/10 ⁴ T	95.48	10 ⁴ TCE
POWER GENERATION (AUTO PRODUCERS)						

Original Table (Energy Demand and Supply) of China in 2003 (Continued)

Year:2003

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	17,540.81	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	16,187.19	10 ⁴ TCE
COKE OVEN GAS	29,170.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	1,601.43	10 ⁴ TCE
BLAST FURNACE GAS	1,691.00	10 ⁶ CM	0.0230	10 ⁴ TCE/10 ⁶ CM	38.82	10 ⁴ TCE
BRIQUETTES	997.00	10 ⁴ T	0.5768	10 ⁴ TCE/10 ⁴ T	575.11	10 ⁴ TCE
REFINING						
REFINERY GAS	712.18	10 ⁴ T	1.4928	10 ⁴ TCE/10 ⁴ T	1,063.17	10 ⁴ TCE
LPG	1,211.73	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	1,973.41	10 ⁴ TCE
MOGAS	4,790.86	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	6,696.80	10 ⁴ TCE
KEROSENE	855.30	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	1,195.56	10 ⁴ TCE
DIESEL OIL	8,532.78	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	11,811.46	10 ⁴ TCE
FUEL OIL	2,004.84	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	2,720.90	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	4,765.42	10 ⁴ T	1.2453	10 ⁴ TCE/10 ⁴ T	5,934.19	10 ⁴ TCE
GAS RECOVERING						
COKE	234.90	10 ⁴ T	0.9229	10 ⁴ TCE/10 ⁴ T	216.78	10 ⁴ TCE
TOWN GAS	65,275.00	10 ⁶ CM	0.0259	10 ⁴ TCE/10 ⁶ CM	1,689.22	10 ⁴ TCE
COKE OVEN GAS	275.00	10 ⁶ CM	0.0553	10 ⁴ TCE/10 ⁶ CM	15.20	10 ⁴ TCE
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	1,580,361.00	GWh	0.0123	10 ⁴ TCE/GWh	19,422.64	10 ⁴ TCE
HYDRO POWER	283,681.00	GWh	0.0123	10 ⁴ TCE/GWh	3,486.44	10 ⁴ TCE
NUCLEAR POWER	43,342.00	GWh	0.0123	10 ⁴ TCE/GWh	532.66	10 ⁴ TCE
HEAT	177,300.00	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	6,045.93	10 ⁴ TCE
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COAL	8,780.75	10 ⁴ T	0.5824	10 ⁴ TCE/10 ⁴ T	5,113.47	10 ⁴ TCE
COKE	106.25	10 ⁴ T	0.8617	10 ⁴ TCE/10 ⁴ T	91.56	10 ⁴ TCE
COKE OVEN GAS	2,681.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	147.19	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	849.65	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,153.12	10 ⁴ TCE
CRUDE OIL	849.65	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,153.12	10 ⁴ TCE
REFINERY GAS	469.15	10 ⁴ T	1.4928	10 ⁴ TCE/10 ⁴ T	700.36	10 ⁴ TCE
LPG	184.94	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	301.19	10 ⁴ TCE
MOGAS	118.35	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	165.43	10 ⁴ TCE
KEROSENE	23.97	10 ⁴ T	1.3977	10 ⁴ TCE/10 ⁴ T	33.50	10 ⁴ TCE
DIESEL OIL	379.03	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	524.63	10 ⁴ TCE
FUEL OIL	582.35	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	790.35	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	3,007.79	10 ⁴ T	1.2453	10 ⁴ TCE/10 ⁴ T	3,745.48	10 ⁴ TCE
NATURAL GAS AND LNG	9,058.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	1,084.23	10 ⁴ TCE
NATURAL GAS	9,058.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	1,084.23	10 ⁴ TCE
TOWN GAS	557.00	10 ⁶ CM	0.2587	10 ⁴ TCE/10 ⁶ CM	144.10	10 ⁴ TCE
ELECTRICITY	419,611.00	GWh	0.0123	10 ⁴ TCE/GWh	5,157.03	10 ⁴ TCE
HEAT	37,228.76	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	1,269.50	10 ⁴ TCE
OTHERS	46.46	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	46.46	10 ⁴ TCE
TOTAL LOSSES AND OWN USE					20,467.60	10 ⁴ TCE
FINAL ENERGY CONSUMPTION TOTAL						
COAL	41,759.20	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	28,337.17	10 ⁴ TCE
COKE	14,219.66	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	13,122.33	10 ⁴ TCE
COKE OVEN GAS	25,100.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	1,377.99	10 ⁴ TCE
BRIQUETTES	1,004.09	10 ⁴ T	0.5768	10 ⁴ TCE/10 ⁴ T	579.20	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	123.35	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	167.40	10 ⁴ TCE
CRUDE OIL	123.35	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	167.40	10 ⁴ TCE
REFINERY GAS	116.85	10 ⁴ T	1.4928	10 ⁴ TCE/10 ⁴ T	174.43	10 ⁴ TCE
LPG	1,610.08	10 ⁴ T	1.6286	10 ⁴ TCE/10 ⁴ T	2,622.15	10 ⁴ TCE
MOGAS	3,953.19	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	5,525.85	10 ⁴ TCE
KEROSENE	897.64	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	1,254.75	10 ⁴ TCE
DIESEL OIL	7,759.45	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	10,740.25	10 ⁴ TCE
FUEL OIL	2,299.73	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	3,121.13	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	1,849.21	10 ⁴ T	1.2453	10 ⁴ TCE/10 ⁴ T	2,302.75	10 ⁴ TCE
NATURAL GAS AND LNG	22,126.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	2,648.50	10 ⁴ TCE
NATURAL GAS	22,126.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	2,648.50	10 ⁴ TCE
TOWN GAS	52,749.00	10 ⁶ CM	0.0258	10 ⁴ TCE/10 ⁶ CM	1,362.51	10 ⁴ TCE
HEAT	140,066.96	10 ¹⁰ Kj	0.0304	10 ⁴ TCE/10 ¹⁰ Kj	4,258.43	10 ⁴ TCE
ELECTRICITY	1,483,548.87	GWh	0.0123	10 ⁴ TCE/GWh	18,232.80	10 ⁴ TCE
OTHERS	308.37	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	308.37	10 ⁴ TCE
TOTAL					96,136.01	10 ⁴ TCE
AGRICULTURE						
COAL	1,683.33	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	1,142.28	10 ⁴ TCE
COKE	140.98	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	130.10	10 ⁴ TCE
MOGAS	195.00	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	272.57	10 ⁴ TCE
KEROSENE	1.35	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	1.89	10 ⁴ TCE
DIESEL OIL	1,484.40	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	2,054.78	10 ⁴ TCE
FUEL OIL	0.60	10 ⁴ T	1.3571	10 ⁴ TCE/10 ⁴ T	0.81	10 ⁴ TCE
HEAT	70.83	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	2.41	10 ⁴ TCE
ELECTRICITY	773.15	GWh	0.0123	10 ⁴ TCE/GWh	9.51	10 ⁴ TCE
TOTAL					3,614.36	10 ⁴ TCE
RESIDENTIAL COMMERCIAL						
COAL	8,040.66	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	5,456.27	10 ⁴ TCE
COKE	169.96	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	156.84	10 ⁴ TCE
COKE OVEN GAS	4,112.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	225.75	10 ⁴ TCE
BRIQUETTES	994.47	10 ⁴ T	0.5768	10 ⁴ TCE/10 ⁴ T	573.65	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	0.09	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	0.12	10 ⁴ TCE

Original Table (Energy Demand and Supply) of China in 2003 (Continued)

Year:2003

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
CRUDE OIL	0.09	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	0.12	10 ⁴ TCE
LPG	1,357.11	10 ⁴ T	1.6285	10 ⁴ TCE/10 ⁴ T	2,210.04	10 ⁴ TCE
MOGAS	436.84	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	610.63	10 ⁴ TCE
KEROSENE	67.62	10 ⁴ T	1.3979	10 ⁴ TCE/10 ⁴ T	94.52	10 ⁴ TCE
DIESEL OIL	423.42	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	586.11	10 ⁴ TCE
FUEL OIL	13.00	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	17.64	10 ⁴ TCE
NATURAL GAS AND LNG	6,374.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	762.97	10 ⁴ TCE
NATURAL GAS	6,374.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	762.97	10 ⁴ TCE
TOWN GAS	9,643.00	10 ⁶ CM	0.0259	10 ⁴ TCE/10 ⁶ CM	249.59	10 ⁴ TCE
HEAT	35,209.69	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	1,200.65	10 ⁴ TCE
ELECTRICITY	286,101.00	GWh	0.0123	10 ⁴ TCE/GWh	3,517.35	10 ⁴ TCE
TOTAL					15,662.15	10 ⁴ TCE
OTHERS						
COAL	797.61	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	541.25	10 ⁴ TCE
COKE	11.39	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	10.51	10 ⁴ TCE
COKE OVEN GAS	267.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	14.66	10 ⁴ TCE
BRIQUETTES	3.01	10 ⁴ T	0.5768	10 ⁴ TCE/10 ⁴ T	1.74	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	1.20	10 ⁴ T	1.3310	10 ⁴ TCE/10 ⁴ T	1.60	10 ⁴ TCE
CRUDE OIL	1.20	10 ⁴ T	1.3310	10 ⁴ TCE/10 ⁴ T	1.60	10 ⁴ TCE
LPG	32.92	10 ⁴ T	1.6285	10 ⁴ TCE/10 ⁴ T	53.61	10 ⁴ TCE
MOGAS	837.00	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	1,169.98	10 ⁴ TCE
KEROSENE	143.19	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	200.15	10 ⁴ TCE
DIESEL OIL	890.00	10 ⁴ T	1.3843	10 ⁴ TCE/10 ⁴ T	1,231.98	10 ⁴ TCE
FUEL OIL	12.08	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	16.39	10 ⁴ TCE
HEAT	3,034.00	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	103.46	10 ⁴ TCE
ELECTRICITY	91,104.00	GWh	0.0123	10 ⁴ TCE/GWh	1,120.58	10 ⁴ TCE
TOTAL					4,465.91	10 ⁴ TCE
INDUSTRY						
COAL	29,593.66	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	20,081.82	10 ⁴ TCE
COKE	13,865.75	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	12,795.73	10 ⁴ TCE
COKE OVEN GAS	20,719.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	1,137.47	10 ⁴ TCE
BRIQUETTES	6.10	10 ⁴ T	0.5768	10 ⁴ TCE/10 ⁴ T	3.52	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	104.13	10 ⁴ T	1.3310	10 ⁴ TCE/10 ⁴ T	138.59	10 ⁴ TCE
CRUDE OIL	104.13	10 ⁴ T	1.3310	10 ⁴ TCE/10 ⁴ T	138.59	10 ⁴ TCE
REFINERY GAS	116.84	10 ⁴ T	1.4928	10 ⁴ TCE/10 ⁴ T	174.42	10 ⁴ TCE
LPG	176.18	10 ⁴ T	1.6285	10 ⁴ TCE/10 ⁴ T	286.91	10 ⁴ TCE
MOGAS	499.04	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	697.57	10 ⁴ TCE
KEROSENE	63.80	10 ⁴ T	1.3977	10 ⁴ TCE/10 ⁴ T	89.18	10 ⁴ TCE
DIESEL OIL	1,180.21	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	1,633.58	10 ⁴ TCE
FUEL OIL	1,315.96	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,785.98	10 ⁴ TCE
NATURAL GAS AND LNG	15,507.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	1,856.20	10 ⁴ TCE
NATURAL GAS	15,507.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	1,856.20	10 ⁴ TCE
TOWN GAS	43,075.00	10 ⁶ CM	0.0259	10 ⁴ TCE/10 ⁶ CM	1,114.92	10 ⁴ TCE
HEAT	100,682.30	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	3,433.27	10 ⁴ TCE
ELECTRICITY	970,357.00	GWh	0.0123	10 ⁴ TCE/GWh	11,925.67	10 ⁴ TCE
TOTAL					57,154.83	10 ⁴ TCE
TRANSPORT						
COAL	1,066.82	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	723.93	10 ⁴ TCE
COKE	10.79	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	9.96	10 ⁴ TCE
COKE OVEN GAS	2.00	10 ⁶ CM	0.0549	10 ⁴ TCE/10 ⁶ CM	0.11	10 ⁴ TCE
BRIQUETTES	0.51	10 ⁴ T	0.5768	10 ⁴ TCE/10 ⁴ T	0.29	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	13.93	10 ⁴ T	1.3310	10 ⁴ TCE/10 ⁴ T	18.54	10 ⁴ TCE
CRUDE OIL	13.93	10 ⁴ T	1.3310	10 ⁴ TCE/10 ⁴ T	18.54	10 ⁴ TCE
LPG	35.00	10 ⁴ T	1.6285	10 ⁴ TCE/10 ⁴ T	57.00	10 ⁴ TCE
MOGAS	1,861.64	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	2,602.25	10 ⁴ TCE
KEROSENE	621.68	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	869.00	10 ⁴ TCE
DIESEL OIL	3,485.20	10 ⁴ T	1.3842	10 ⁴ TCE/10 ⁴ T	4,824.37	10 ⁴ TCE
FUEL OIL	940.29	10 ⁴ T	1.3572	10 ⁴ TCE/10 ⁴ T	1,276.13	10 ⁴ TCE
NATURAL GAS AND LNG	175.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	20.95	10 ⁴ TCE
NATURAL GAS	175.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	20.95	10 ⁴ TCE
TOWN GAS	31.00	10 ⁶ CM	0.0259	10 ⁴ TCE/10 ⁶ CM	0.80	10 ⁴ TCE
HEAT	853.31	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	29.10	10 ⁴ TCE
ELECTRICITY	39,694.00	GWh	0.0123	10 ⁴ TCE/GWh	487.83	10 ⁴ TCE
TOTAL					10,920.26	10 ⁴ TCE
NON-ENERGY						
COAL	1,040.76	10 ⁴ T	0.6786	10 ⁴ TCE/10 ⁴ T	706.24	10 ⁴ TCE
COKE	862.19	10 ⁴ T	0.9228	10 ⁴ TCE/10 ⁴ T	795.65	10 ⁴ TCE
REFINERY GAS	46.00	10 ⁴ T	1.4928	10 ⁴ TCE/10 ⁴ T	68.67	10 ⁴ TCE
LPG	18.72	10 ⁴ T	1.6285	10 ⁴ TCE/10 ⁴ T	30.49	10 ⁴ TCE
MOGAS	10.49	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	14.66	10 ⁴ TCE
KEROSENE	3.10	10 ⁴ T	1.3978	10 ⁴ TCE/10 ⁴ T	4.33	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	1,849.21	10 ⁴ T	1.2453	10 ⁴ TCE/10 ⁴ T	2,302.75	10 ⁴ TCE
NATURAL GAS AND LNG	6,678.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	799.36	10 ⁴ TCE
NATURAL GAS	6,678.00	10 ⁶ CM	0.1197	10 ⁴ TCE/10 ⁶ CM	799.36	10 ⁴ TCE
OTHERS	308.37	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	308.37	10 ⁴ TCE
TOTAL NON-ENERGY USE					5,030.53	10 ⁴ TCE

Original Table (Energy Demand and Supply) of China in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER		
COAL		
OIL		
GAS		
HYDRO POWER		
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of China in 2003

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	4,460.37	10 ⁴ T	0.6485	10 ⁴ TCE/10 ⁴ T	2,892.55	10 ⁴ TCE
COKE	11,577.75	10 ⁴ T	0.9714	10 ⁴ TCE/10 ⁴ T	11,246.63	10 ⁴ TCE
COKE OVEN GAS	19,024.00	10 ⁶ CM	0.0610	10 ⁴ TCE/10 ⁶ CM	1,160.46	10 ⁴ TCE
BRIQUETTES	4.10	10 ⁴ T	0.6072	10 ⁴ TCE/10 ⁴ T	2.49	10 ⁴ TCE
OTHER COAL PRODUCTS	172.73	10 ⁴ T	1.1540	10 ⁴ TCE/10 ⁴ T	199.33	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	8.39	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	11.98	10 ⁴ TCE
CRUDE OIL	8.39	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	11.98	10 ⁴ TCE
LPG	0.91	10 ⁴ T	1.7143	10 ⁴ TCE/10 ⁴ T	1.56	10 ⁴ TCE
MOGAS	41.81	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	61.52	10 ⁴ TCE
KEROSENE	3.00	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	4.41	10 ⁴ TCE
DIESEL OIL	113.85	10 ⁴ T	1.4570	10 ⁴ TCE/10 ⁴ T	165.88	10 ⁴ TCE
FUEL OIL	255.10	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	364.44	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	1.50	10 ⁴ T	1.3108	10 ⁴ TCE/10 ⁴ T	1.97	10 ⁴ TCE
NATURAL GAS/LNG	326.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	43.36	10 ⁴ TCE
NATURAL GAS	326.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	43.36	10 ⁴ TCE
HEAT	13,586.88	10 ¹⁰ Kj	0.0341	10 ⁴ TCE/10 ¹⁰ Kj	463.31	10 ⁴ TCE
ELECTRICITY	175,700.00	GWh	0.0123	10 ⁴ TCE/GWh	2,159.35	10 ⁴ TCE
OTHERS	79.96	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	79.96	10 ⁴ TCE
TOTAL					18,859.21	10 ⁴ TCE
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	5,393.53	10 ⁴ T	0.7143	10 ⁴ TCE/10 ⁴ T	3,852.60	10 ⁴ TCE
COKE	1,116.44	10 ⁴ T	0.9714	10 ⁴ TCE/10 ⁴ T	1,084.51	10 ⁴ TCE
COKE OVEN GAS	1,249.00	10 ⁶ CM	0.0610	10 ⁴ TCE/10 ⁶ CM	76.19	10 ⁴ TCE
BRIQUETTES	2.00	10 ⁴ T	0.6072	10 ⁴ TCE/10 ⁴ T	1.21	10 ⁴ TCE
OTHER COAL PRODUCTS	31.00	10 ⁴ T	1.1540	10 ⁴ TCE/10 ⁴ T	35.77	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	73.45	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	104.93	10 ⁴ TCE
CRUDE OIL	73.45	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	104.93	10 ⁴ TCE
REFINERY GAS	50.00	10 ⁴ T	1.5713	10 ⁴ TCE/10 ⁴ T	78.57	10 ⁴ TCE
LPG	75.00	10 ⁴ T	1.7143	10 ⁴ TCE/10 ⁴ T	128.57	10 ⁴ TCE
MOGAS	44.11	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	64.90	10 ⁴ TCE
KEROSENE	9.68	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	14.24	10 ⁴ TCE
DIESEL OIL	127.79	10 ⁴ T	1.4570	10 ⁴ TCE/10 ⁴ T	186.19	10 ⁴ TCE
FUEL OIL	334.00	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	477.15	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	1,318.54	10 ⁴ T	1.3108	10 ⁴ TCE/10 ⁴ T	1,728.34	10 ⁴ TCE
NATURAL GAS/LNG	13,200.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	1,755.60	10 ⁴ TCE
NATURAL GAS	13,200.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	1,755.60	10 ⁴ TCE
TOWN GAS	335.00	10 ⁶ CM	0.0287	10 ⁴ TCE/10 ⁶ CM	9.61	10 ⁴ TCE
HEAT	33,205.63	10 ¹⁰ Kj	0.0304	10 ⁴ TCE/10 ¹⁰ Kj	1,009.54	10 ⁴ TCE
ELECTRICITY	163,034.00	GWh	0.0123	10 ⁴ TCE/GWh	2,003.69	10 ⁴ TCE
OTHERS	58.00	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	58.00	10 ⁴ TCE
TOTAL					12,669.61	10 ⁴ TCE
1.3 NON-FERROUS METALS						
COAL	821.49	10 ⁴ T	0.7143	10 ⁴ TCE/10 ⁴ T	586.79	10 ⁴ TCE
COKE	253.58	10 ⁴ T	0.9714	10 ⁴ TCE/10 ⁴ T	246.33	10 ⁴ TCE
OTHER COAL PRODUCTS	8.12	10 ⁴ T	1.1540	10 ⁴ TCE/10 ⁴ T	9.37	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	1.00	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	1.43	10 ⁴ TCE
CRUDE OIL	1.00	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	1.43	10 ⁴ TCE
LPG	1.57	10 ⁴ T	1.7143	10 ⁴ TCE/10 ⁴ T	2.69	10 ⁴ TCE
MOGAS	16.53	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	24.32	10 ⁴ TCE
KEROSENE	2.47	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	3.63	10 ⁴ TCE
DIESEL OIL	67.90	10 ⁴ T	1.4570	10 ⁴ TCE/10 ⁴ T	98.93	10 ⁴ TCE
FUEL OIL	71.54	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	102.20	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	38.71	10 ⁴ T	1.3108	10 ⁴ TCE/10 ⁴ T	50.75	10 ⁴ TCE
NATURAL GAS/LNG	82.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	10.91	10 ⁴ TCE
NATURAL GAS	82.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	10.91	10 ⁴ TCE
TOWN GAS	1,200.00	10 ⁶ CM	0.0287	10 ⁴ TCE/10 ⁶ CM	34.44	10 ⁴ TCE
HEAT	8,795.31	10 ¹⁰ Kj	0.0304	10 ⁴ TCE/10 ¹⁰ Kj	267.40	10 ⁴ TCE
ELECTRICITY	119,866.00	GWh	0.0123	10 ⁴ TCE/GWh	1,473.15	10 ⁴ TCE
OTHERS	6.32	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	6.32	10 ⁴ TCE
TOTAL					2,918.66	10 ⁴ TCE
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	11,065.43	10 ⁴ T	0.7143	10 ⁴ TCE/10 ⁴ T	7,904.03	10 ⁴ TCE
COKE	306.60	10 ⁴ T	0.9714	10 ⁴ TCE/10 ⁴ T	297.83	10 ⁴ TCE
COKE OVEN GAS	270.00	10 ⁶ CM	0.0610	10 ⁴ TCE/10 ⁶ CM	16.47	10 ⁴ TCE
OTHER COAL PRODUCTS	27.50	10 ⁴ T	1.1540	10 ⁴ TCE/10 ⁴ T	31.74	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	9.93	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	14.18	10 ⁴ TCE
CRUDE OIL	9.93	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	14.18	10 ⁴ TCE
LPG	55.00	10 ⁴ T	1.7143	10 ⁴ TCE/10 ⁴ T	94.29	10 ⁴ TCE

Original Table (Disaggregated Final Energy Demand) of China in 2003 (Continued)

China	2003		2003		2003	
	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
MOGAS	65.93	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	97.01	10 ⁴ TCE
KEROSENE	1.65	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	2.42	10 ⁴ TCE
DIESEL OIL	330.74	10 ⁴ T	1.4570	10 ⁴ TCE/10 ⁴ T	481.89	10 ⁴ TCE
FUEL OIL	374.65	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	535.23	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	20.00	10 ⁴ T	1.3108	10 ⁴ TCE/10 ⁴ T	26.22	10 ⁴ TCE
NATURAL GAS/LNG	386.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	51.34	10 ⁴ TCE
NATURAL GAS	386.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	51.34	10 ⁴ TCE
TOWN GAS	865.00	10 ⁶ CM	0.0287	10 ⁴ TCE/10 ⁶ CM	24.83	10 ⁴ TCE
HEAT	2,506.12	10 ¹⁰ Kj	0.0304	10 ⁴ TCE/10 ¹⁰ Kj	76.19	10 ⁴ TCE
ELECTRICITY	114,344.00	GWh	0.0123	10 ⁴ TCE/GWh	1,405.29	10 ⁴ TCE
OTHERS	8.98	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	8.98	10 ⁴ TCE
TOTAL					11,067.93	10 ⁴ TCE
1.5 PAPER, PULP AND PRINTING						
COAL	1,238.11	10 ⁴ T	0.7143	10 ⁴ TCE/10 ⁴ T	884.38	10 ⁴ TCE
COKE	2.00	10 ⁴ T	0.9714	10 ⁴ TCE/10 ⁴ T	1.94	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	0.63	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	0.89	10 ⁴ TCE
CRUDE OIL	0.63	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	0.89	10 ⁴ TCE
LPG	1.51	10 ⁴ T	1.7143	10 ⁴ TCE/10 ⁴ T	2.58	10 ⁴ TCE
MOGAS	24.77	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	36.44	10 ⁴ TCE
KEROSENE	7.90	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	11.62	10 ⁴ TCE
DIESEL OIL	41.00	10 ⁴ T	1.4570	10 ⁴ TCE/10 ⁴ T	59.74	10 ⁴ TCE
FUEL OIL	22.66	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	32.38	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	4.50	10 ⁴ T	1.3108	10 ⁴ TCE/10 ⁴ T	5.90	10 ⁴ TCE
HEAT	6,630.83	10 ¹⁰ Kj	0.0304	10 ⁴ TCE/10 ¹⁰ Kj	201.60	10 ⁴ TCE
ELECTRICITY	38,962.00	GWh	0.0123	10 ⁴ TCE/GWh	478.84	10 ⁴ TCE
TOTAL					1,716.33	10 ⁴ TCE
1.6 OTHER INDUSTRIES						
COAL	6,614.73	10 ⁴ T	0.7143	10 ⁴ TCE/10 ⁴ T	4,724.90	10 ⁴ TCE
COKE	609.38	10 ⁴ T	0.9714	10 ⁴ TCE/10 ⁴ T	591.95	10 ⁴ TCE
COKE OVEN GAS	177.00	10 ⁶ CM	0.0610	10 ⁴ TCE/10 ⁶ CM	10.80	10 ⁴ TCE
OTHER COAL PRODUCTS	6.82	10 ⁴ T	1.1540	10 ⁴ TCE/10 ⁴ T	7.88	10 ⁴ TCE
CRUDE OIL AND NGL/CONDENSATE	10.74	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	15.34	10 ⁴ TCE
CRUDE OIL	10.74	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	15.34	10 ⁴ TCE
REFINERY GAS	59.84	10 ⁴ T	1.5713	10 ⁴ TCE/10 ⁴ T	94.03	10 ⁴ TCE
LPG	42.20	10 ⁴ T	1.7143	10 ⁴ TCE/10 ⁴ T	72.34	10 ⁴ TCE
MOGAS	305.90	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	450.10	10 ⁴ TCE
KEROSENE	39.11	10 ⁴ T	1.4714	10 ⁴ TCE/10 ⁴ T	57.55	10 ⁴ TCE
DIESEL OIL	498.92	10 ⁴ T	1.4570	10 ⁴ TCE/10 ⁴ T	726.93	10 ⁴ TCE
FUEL OIL	258.01	10 ⁴ T	1.4286	10 ⁴ TCE/10 ⁴ T	368.59	10 ⁴ TCE
OTHER PETROLEUM PRODUCTS	465.96	10 ⁴ T	1.3108	10 ⁴ TCE/10 ⁴ T	610.78	10 ⁴ TCE
NATURAL GAS/LNG	1,513.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	201.23	10 ⁴ TCE
NATURAL GAS	1,513.00	10 ⁶ CM	0.1330	10 ⁴ TCE/10 ⁶ CM	201.23	10 ⁴ TCE
TOWN GAS	931.00	10 ⁶ CM	0.0287	10 ⁴ TCE/10 ⁶ CM	26.72	10 ⁴ TCE
HEAT	35,957.54	10 ¹⁰ Kj	0.0304	10 ⁴ TCE/10 ¹⁰ Kj	1,093.21	10 ⁴ TCE
ELECTRICITY	358,451.00	GWh	0.0123	10 ⁴ TCE/GWh	4,405.36	10 ⁴ TCE
OTHERS	135.65	10 ⁴ T	1.0000	10 ⁴ TCE/10 ⁴ T	135.65	10 ⁴ TCE
TOTAL					8,868.45	10 ⁴ TCE
2 TRANSPORTATION SECTOR						
2.1 AIR						
TOTAL						
2.2 ROAD						
TOTAL						
2.3 RAIL						
TOTAL						
2.4 INTERNAL NAVIGATION						
TOTAL						
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
TOTAL						
3.2 RESIDENTIAL						
TOTAL						

Original Table (Quarterly) of China in 2004

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	96,712	1,100	5,020	n.a
	FEB.	110,016	870	8,970	n.a
	MAR.	128,128	1,340	5,460	n.a
	1st quarter	334,856	3,310	19,450	n.a
	APR.	131,293	1,530	7,810	n.a
	MAY.	128,723	1,190	7,530	n.a
	JUN.	135,409	1,620	8,800	n.a
	2nd quarter	395,424	4,340	24,140	n.a
	JUL.	131,504	1,870	8,450	n.a
	AUG.	132,549	1,170	6,410	n.a
	SEP.	134,060	1,990	7,620	n.a
	3rd quarter	398,113	5,030	22,480	n.a
	OCT.	140,180	1,690	5,510	n.a
	NOV.	143,698	2,020	8,050	n.a
	DEC.	152,698	2,190	6,930	n.a
	4th quarter	436,576	5,900	20,490	n.a
	1,564,969	18,580	86,560	#VALUE!	

Oil		Unit: 1,000bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	106,952	75,396	5,270	1,707	17,934	3,074	6,829
	FEB.	101,013	77,080	3,148	-2,600	20,642	6,295	7,499
	MAR.	105,445	68,222	3,733	101	22,253	7,759	-11,569
	1st quarter	313,410	220,698	12,151	-792	60,829	17,129	2,759
	APR.	103,342	73,200	1,244	-3,933	32,062	6,442	2,653
	MAY.	107,877	70,418	5,270	8,094	24,742	7,027	4,956
	JUN.	105,472	82,496	3,806	1,364	27,962	6,808	-687
	2nd quarter	316,690	226,115	10,321	5,525	84,766	20,276	6,922
	JUL.	108,586	70,345	2,635	4,423	20,350	6,881	743
	AUG.	110,132	68,296	3,001	8,104	19,325	9,516	-6,350
	SEP.	107,418	75,762	3,367	12,015	18,227	7,320	-3,361
	3rd quarter	326,137	214,403	9,004	24,542	57,901	23,717	-8,968
	OCT.	107,879	67,930	2,269	11,565	19,691	5,344	-2,913
	NOV.	106,289	81,398	439	8,916	28,621	7,540	-4,803
	DEC.	109,227	88,572	6,002	8,036	25,327	9,882	-4,476
	4th quarter	323,395	237,900	8,711	28,517	73,639	22,765	-12,192
	1,279,633	899,116	40,187	57,791	277,135	83,887	-11,480	

Original Table (Quarterly) of China in 2004 (Continued)

Natural Gas (or LNG)		Unit: 1,000m ³			
		Production	Imports	Exports	Stock Changes
2004	JAN.	3,370,000	-	-	-
	FEB.	2,762,000	-	-	-
	MAR.	3,367,000	-	-	-
	1st quarter	9,499,000	-	-	-
	APR.	3,121,000	-	-	-
	MAY.	3,249,000	-	-	-
	JUN.	3,086,000	-	-	-
	2nd quarter	9,456,000	-	-	-
	JUL.	3,195,000	-	-	-
	AUG.	3,313,000	-	-	-
	SEP.	3,241,000	-	-	-
	3rd quarter	9,749,000	-	-	-
	OCT.	3,585,000	-	-	-
	NOV.	3,732,000	-	-	-
	DEC.	4,083,000	-	-	-
	4th quarter	11,400,000	-	-	-
	40,104,000	-	-	-	

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	149,767	-	-	-	-	-	779
	FEB.	125,803	-	-	-	-	-	689
	MAR.	170,669	-	-	-	-	-	719
	1st quarter	446,239	-	-	-	-	-	2,187
	APR.	167,888	-	-	-	-	-	785
	MAY.	169,288	-	-	-	-	-	673
	JUN.	174,810	-	-	-	-	-	536
	2nd quarter	511,986	-	-	-	-	-	1,994
	JUL.	189,779	-	-	-	-	-	601
	AUG.	192,095	-	-	-	-	-	763
	SEP.	180,954	-	-	-	-	-	1,282
	3rd quarter	562,828	-	-	-	-	-	2,645
	OCT.	184,431	-	-	-	-	-	1,221
	NOV.	185,877	-	-	-	-	-	662
	DEC.	193,125	-	-	-	-	-	712
	4th quarter	563,433	-	-	-	-	-	2,594
	2,084,486	-	-	-	-	-	9,420	

3.6 Hong Kong, China

Energy Balance Table of Hong Kong, China in 2003

	1 Coal	2 Coal Products	3 Crude Oil	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	6,409	-	-	13,461	369	600	3,184	-	5,199
3 Export	-9	-	-	-1,107	-31	-	-99	-	-130
4 International Marine Bunkers	-	-	-	-5,140	-	-	-	-	-2,281
5 Stock Changes	-	-	-	105	2	-	-31	0	60
6 Total Primary Energy Supply	6,401	-	-	7,319	340	600	3,054	0	2,849
7 Public Electricity	-6,423	-	-	-47	-	-	-	-	-7
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-669	-	-669	-	-	-
10 Petroleum Refineries	-	-	-	-	-	-	-	-	-
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	28	-	-	37	5	69	-4	51	-32
14 Total Final Energy Consumption	5	-	-	6,639	345	-	3,051	51	2,810
15 Industry Sector	-	-	-	816	-	-	-	8	804
16 Transport Sector	-	-	-	5,626	345	-	3,051	-	2,005
17 Other Sector	-	-	-	198	-	-	-	43	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	-	-	-	198	-	-	-	43	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of Hong Kong, China in 2002

	1 Coal	2 Coal Products	3 Crude Oil	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	5,229	-	-	13,205	382	580	3,409	-	4,979
3 Export	-2	-	-	-1,058	-33	-	-69	-	-117
4 International Marine Bunkers	-	-	-	-4,748	-	-	-	-	-1,989
5 Stock Changes	-158	-	-	244	19	67	-14	27	16
6 Total Primary Energy Supply	5,069	-	-	7,642	368	647	3,325	27	2,889
7 Public Electricity	-5,064	-	-	-42	-	-	-	-	-9
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-647	-	-647	-	-	-
10 Petroleum Refineries	-	-	-	-	-	-	-	-	-
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	0	-	-	0	-	-	0	-	0
14 Total Final Energy Consumption	5	-	-	6,953	368	-	3,325	27	2,880
15 Industry Sector	-	-	-	829	-	-	-	4	824
16 Transport Sector	-	-	-	5,936	368	-	3,325	-	2,055
17 Other Sector	-	-	-	188	-	-	-	23	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	-	-	-	188	-	-	-	23	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	-	-	-	-	-	-

Note: The final energy consumption of petroleum products breakdown for each sector were estimated by Coording Agency.

Energy Balance Table of Hong Kong, China in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	-	-	-	-	-	-	-
3,767	341	-	-	1,237	-	-	-	-	-	894	-	22,001
-846	-2	-	-	-	-	-	-	-	-	-259	-	-1,374
-2,860	-	-	-	-	-	-	-	-	-	-	-	-5,140
74	0	-	-	-	-	-	-	-	-	-	-	105
137	339	-	-	1,237	-	-	-	-	-	635	-	15,592
-41	-	-	-	-1,237	-	-	-	-	-	3,053	-	-4,654
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	580	-	-	-	-	-	-	-89
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-382	-	-382
-93	40	-	-	-	0	-	-	-	-	0	-	65
4	380	-	-	-	580	-	-	-	-	3,306	-	10,532
4	-	-	-	-	22	-	-	-	-	355	-	1,192
-	225	-	-	-	-	-	-	-	-	-	-	5,626
-	155	-	-	-	559	-	-	-	-	2,952	-	3,708
-	-	-	-	-	-	-	-	-	-	-	-	-
-	155	-	-	-	559	-	-	-	-	2,943	-	3,699
-	-	-	-	-	-	-	-	-	-	9	-	9
-	-	-	-	-	-	-	-	-	-	-	-	-

Energy Balance Table of Hong Kong, China in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	-	-	-	-	-	-	-
3,537	317	-	-	1,924	-	-	-	-	-	875	-	21,233
-835	-3	-	-	-	-	-	-	-	-	-187	-	-1,247
-2,759	-	-	-	-	-	-	-	-	-	-	-	-4,748
91	39	-	-	-	-	-	-	-	-	-	-	85
34	353	-	-	1,924	-	-	-	-	-	688	-	15,323
-34	-	-	-	-1,924	-	-	-	-	-	2,950	-	-4,080
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	573	-	-	-	-	-	-	-74
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-364	-	-364
0	0	-	-	-	-	-	-	-	-	0	-	0
-	353	-	-	-	573	-	-	-	-	3,275	-	10,805
-	-	-	-	-	21	-	-	-	-	385	-	1,235
-	188	-	-	-	-	-	-	-	-	-	-	5,936
-	165	-	-	-	551	-	-	-	-	2,890	-	3,629
-	-	-	-	-	-	-	-	-	-	-	-	-
-	165	-	-	-	551	-	-	-	-	2,881	-	3,621
-	-	-	-	-	-	-	-	-	-	9	-	9
-	-	-	-	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Hong Kong, China

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	5,293	6,999	7,011	7,948	8,501	9,549	10,053	10,643	11,409
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	6,195	8,016	8,021	9,855	10,394	11,602	13,836	12,918	13,614
Export	-199	-317	-294	-855	-693	-1,113	-2,337	-2,123	-2,701
Final Energy Consumption	3,464	4,470	4,330	4,969	5,261	6,079	6,338	6,689	7,044
Industry	1,040	1,482	1,335	1,496	1,633	1,862	1,827	1,516	1,370
Transport	1,512	1,737	1,658	2,012	2,013	2,476	2,634	3,136	3,494
Residential & Commercial	892	1,235	1,321	1,446	1,600	1,729	1,864	2,025	2,167
Agriculture	-	-	-	-	-	-	-	-	-
Coal, Coal Products									
Primary Energy Supply	20	2,719	3,232	3,941	4,794	5,256	5,596	6,008	6,516
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	21	2,689	3,324	3,845	4,812	5,563	5,961	5,362	5,783
Export	-1	-1	-1	-1	-1	-1	-2	-1	-1
Transformation Sector	-	-2,702	-3,216	-3,926	-4,779	-5,244	-5,583	-5,996	-6,504
Power Generation	-	-2,702	-3,216	-3,926	-4,779	-5,244	-5,583	-5,996	-6,504
Final Energy Consumption	20	16	16	16	15	12	13	12	12
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Petroleum Products									
Primary Energy Supply	5,299	4,344	3,869	4,111	3,824	4,417	4,610	4,790	5,156
Import	6,174	5,327	4,697	6,010	5,582	6,038	7,876	7,556	7,831
Export	-172	-252	-203	-750	-575	-988	-2,183	-1,967	-2,437
Transformation Sector	-2,871	-1,332	-1,097	-873	-495	-424	-509	-489	-670
Power Generation	-2,789	-1,160	-908	-638	-243	-120	-179	-126	-278
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,430	3,012	2,773	3,240	3,332	3,997	4,106	4,304	4,506
Industry	674	1,033	880	978	1,052	1,259	1,214	908	757
Transport	1,512	1,737	1,658	2,012	2,013	2,476	2,634	3,136	3,494
Residential & Commercial	243	242	235	251	267	263	258	260	255
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	76	148	172	194	228	263	294	324	349
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	76	148	172	194	228	263	294	324	349
Industry	5	6	6	7	9	9	11	13	15
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	71	143	166	187	219	254	283	311	334
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	1,088	1,541	1,654	1,841	2,042	2,193	2,353	2,488	2,735
Thermal	1,088	1,541	1,654	1,841	2,042	2,193	2,353	2,488	2,735
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	939	1,294	1,370	1,519	1,687	1,806	1,925	2,049	2,177
Industry	361	443	450	511	573	594	601	596	598
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	578	851	920	1,008	1,114	1,212	1,323	1,454	1,579
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Hong Kong, China (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
12,694	13,280	13,035	13,250	13,272	13,170	15,472	16,299	15,094	15,256	15,323	15,592
-	-	-	-	-	-	-	-	-	-	-	-
16,546	18,611	19,197	22,159	23,102	24,839	25,905	23,686	19,786	20,568	21,233	22,001
-3,530	-5,019	-5,160	-7,837	-8,493	-9,803	-8,168	-3,373	-1,557	-1,262	-1,247	-1,374
8,023	8,437	9,236	9,275	9,301	9,564	11,497	12,664	11,204	10,904	10,805	10,532
1,720	1,468	1,516	1,373	1,265	1,245	1,776	2,179	1,714	1,535	1,235	1,192
3,980	4,493	5,058	5,132	5,097	5,309	6,497	7,256	6,088	5,889	5,936	5,626
2,312	2,456	2,645	2,754	2,757	2,995	3,211	3,216	3,389	3,467	3,621	3,699
-	-	-	-	-	-	-	-	-	-	-	-
6,947	7,171	5,553	5,751	4,485	3,662	4,240	3,550	4,125	4,556	5,069	6,401
-	-	-	-	-	-	-	-	-	-	-	-
6,131	7,099	5,074	5,467	4,066	3,431	4,260	3,836	3,658	4,818	5,229	6,409
-2	-1	-1	-1	-1	-2	-0	-1	-24	-8	-2	-9
-6,936	-7,159	-5,543	-5,742	-4,476	-3,655	-4,234	-3,544	-4,121	-4,552	-5,064	-6,423
-6,936	-7,159	-5,543	-5,742	-4,476	-3,655	-4,234	-3,544	-4,121	-4,552	-5,064	-6,423
11	13	10	9	9	7	6	6	4	4	5	5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
6,173	6,496	6,923	6,961	6,773	6,734	8,605	9,750	8,186	7,784	7,642	7,319
10,415	11,512	13,414	16,022	16,994	18,585	18,965	16,797	13,245	12,834	13,205	13,461
-3,102	-4,632	-5,008	-7,708	-8,446	-9,753	-8,116	-3,318	-1,431	-1,254	-1,058	-1,107
-806	-873	-660	-694	-664	-685	-658	-662	-684	-689	-690	-716
-366	-400	-124	-169	-114	-95	-75	-59	-37	-37	-42	-47
-	-	-	-	-	-	-	-	-	-	-	-
5,371	5,628	6,270	6,227	6,077	6,270	7,981	9,135	7,518	7,125	6,953	6,639
1,124	894	984	869	769	772	1,315	1,741	1,269	1,113	829	816
3,980	4,493	5,058	5,132	5,097	5,309	6,497	7,256	6,088	5,889	5,936	5,626
267	241	229	225	45	189	168	139	161	123	188	198
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	16	1,390	2,146	2,013	2,220	2,007	2,025	1,924	1,237
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	22	1,374	2,146	2,013	2,220	2,007	2,025	1,924	1,237
-	-	-	-	-	-	-	-	-	-	-	-
391	413	446	456	-896	-1,632	-1,498	-1,689	-1,447	-1,454	-1,351	-657
-	-	-	-16	-1,390	-2,146	-2,013	-2,220	-2,007	-2,025	-1,924	-1,237
391	413	446	472	494	514	515	531	560	571	573	580
18	19	20	21	20	20	19	20	21	22	21	22
-	-	-	-	-	-	-	-	-	-	-	-
374	394	426	451	474	494	496	511	539	549	551	559
-	-	-	-	-	-	-	-	-	-	-	-
3,002	3,129	2,299	2,400	2,445	2,489	2,701	2,536	2,694	2,788	2,950	3,053
3,002	3,129	2,299	2,400	2,445	2,489	2,701	2,536	2,694	2,788	2,950	3,053
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
2,249	2,384	2,509	2,567	2,720	2,772	2,996	2,992	3,121	3,204	3,275	3,306
578	555	512	483	476	453	442	419	424	400	385	355
-	-	-	-	-	-	-	-	-	-	-	-
1,671	1,822	1,990	2,077	2,237	2,312	2,547	2,566	2,689	2,795	2,881	2,943
-	-	-	-	-	-	-	-	-	-	-	-

Major Economic Indicators of Hong Kong, China

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	5.04	5.37	5.46	5.52	5.58	5.63	5.69	5.70
Gross Domestic Product *4								
Real Term (Billions of 1995 Price and 1995 USD)	58.13	76.18	76.33	84.79	95.78	103.41	106.06	108.04
Real Term (Billions of 1995 Price and 1995 PPP)	54.61	71.57	71.70	79.66	305.78	97.15	99.63	101.50
Nominal (Billions of Current USD)	28.58	32.93	35.03	40.24	49.54	58.58	67.58	75.44
GDP per Capita *4								
Real Term (1995 Price and 1995 USD)	11,537	14,186	13,989	15,350	17,163	18,378	18,651	18,939
Real Term (1995 Price and 1995 PPP)	10,838	13,327	13,142	14,420	16,124	17,266	17,522	17,793
Nominal (Current USD)	5,671	6,133	6,420	7,284	8,877	10,411	11,884	13,224
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	142.20	257.47	272.89	314.00	386.33	457.25	527.08	587.62
Household Final Consumption Expenditure, etc.	84.85	156.54	167.86	190.18	221.37	258.71	292.97	337.81
General Government Final Consumption Expenditure	8.71	18.02	19.75	22.84	25.67	29.94	36.16	43.13
Gross Fixed Capital Formation	46.23	57.94	58.07	68.60	92.73	117.44	138.10	156.16
Stock Change	3.75	5.80	1.47	6.18	9.75	14.13	3.46	5.73
Exports of Goods and Services	126.73	276.51	294.89	346.17	467.01	598.56	691.20	774.20
Imports of Goods and Services	128.06	257.35	269.15	319.97	430.18	561.53	634.82	729.41
Real GDP & its Components (Billions of 2000 HKD) *1								
Gross Domestic Product	445.38	583.65	584.76	649.62	733.78	792.25	812.54	827.74
Household Final Consumption Expenditure, etc.	270.57	347.93	362.82	391.84	431.27	467.10	483.09	494.98
General Government Final Consumption Expenditure	43.95	61.34	62.45	66.35	68.94	71.52	75.24	84.61
Gross Fixed Capital Formation	138.87	144.81	144.67	153.77	175.61	187.06	193.52	205.57
Stock Change	5.77	6.21	-0.07	6.91	10.19	13.94	3.29	-6.33
Exports of Goods and Services	222.18	339.47	357.65	412.29	532.54	656.90	715.73	793.06
Imports of Goods and Services	221.58	310.73	330.62	375.95	485.42	607.39	658.93	744.15
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Manufacturing Production (2000=100) *2	N.A.	88.3	84.4	97.8	113.4	120.3	120.7	119.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	20.323	28.337	30.077	36.081	48.712	63.493	73.336	82.390
Imports, c.i.f.	22.994	30.444	31.195	35.942	50.691	70.325	77.662	84.725
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Current Account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Overall Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Foreign Exchange Rate (HKD/USD) *1	4.9761	7.8180	7.7908	7.8033	7.7983	7.8060	7.7999	7.7898
Purchasing Power Parity (HKD/International Dollar) *1	4.3469	4.7935	4.9162	4.9807	5.2785	5.5939	6.0498	6.3581
Price Indices								
GDP Deflator (2000=100) *4	31.9	44.1	46.7	48.3	52.6	57.7	64.9	71.0
Producer Price Index (2000=100) *2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	93.2
Consumer Price Index (2000=100) *2	N.A.	40.0	41.4	42.9	45.3	48.9	53.9	59.4
Growth Rate (%) *4								
Real GDP	10.37	9.79	0.19	11.09	12.96	7.97	2.56	1.87
Population	1.21	1.61	1.60	1.25	1.02	0.83	1.06	0.32
Price								
Producer Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	N.A.	8.6	3.5	3.5	5.7	7.8	10.2	10.3

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

Major Economic Indicators of Hong Kong, China (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
5.75	5.80	5.90	6.00	6.16	6.44	6.49	6.54	6.61	6.67	6.73	6.79	6.82
114.09	121.62	129.28	136.39	141.71	147.81	155.34	147.58	152.59	168.16	168.94	172.13	177.67
107.18	114.26	121.46	128.14	133.13	138.86	145.94	138.64	143.36	157.98	158.71	161.71	752.74
87.15	102.23	118.00	133.25	141.71	156.57	173.67	165.24	160.64	165.36	162.83	159.94	156.68
19,825	20,964	21,909	22,740	23,020	22,966	23,940	22,551	23,096	25,230	25,121	25,361	26,067
18,625	19,694	20,582	21,363	21,627	21,575	22,490	21,186	21,698	23,703	23,600	23,826	24,489
15,144	17,621	19,997	22,215	23,020	24,327	26,763	25,251	24,313	24,810	24,213	23,566	22,987
677.25	791.32	912.81	1,029.77	1,096.26	1,210.93	1,344.55	1,279.85	1,246.13	1,288.34	1,269.90	1,247.38	1,220.02
401.41	467.14	534.33	616.98	683.36	748.20	825.13	787.04	754.45	760.17	765.11	728.09	700.52
51.29	63.79	72.27	83.14	93.61	103.53	112.74	116.54	119.98	120.15	128.85	131.28	130.07
180.81	217.64	249.44	305.76	334.36	378.49	451.89	388.73	325.33	347.38	333.04	286.02	269.13
4.10	8.19	2.30	21.26	45.66	9.76	12.31	-15.65	-10.61	14.40	-4.06	5.66	9.47
917.58	1,101.35	1,245.93	1,392.25	1,584.71	1,670.10	1,728.71	1,605.07	1,614.54	1,874.50	1,788.64	1,897.53	2,100.98
877.93	1,066.78	1,191.46	1,389.61	1,645.44	1,699.15	1,786.24	1,601.88	1,557.55	1,828.25	1,741.68	1,801.20	1,990.14
874.09	931.78	990.49	1,044.96	1,085.72	1,132.40	1,190.16	1,130.65	1,169.09	1,288.34	1,294.31	1,318.74	1,361.21
542.01	589.70	636.29	678.92	689.11	710.47	759.49	708.60	717.82	760.17	775.06	766.05	759.40
91.13	97.60	99.64	103.43	106.74	110.80	113.46	114.25	117.79	120.15	127.42	130.59	133.06
224.90	245.81	254.66	293.62	324.16	359.49	404.79	375.24	312.95	347.38	356.57	340.35	340.84
-14.38	-14.84	-20.80	-8.34	13.94	-23.38	-25.80	-50.56	-35.27	14.40	-4.89	6.88	10.81
907.04	1,069.96	1,202.65	1,318.56	1,458.93	1,548.55	1,620.62	1,559.48	1,624.32	1,874.50	1,840.86	2,010.09	2,270.20
876.59	1,056.45	1,181.96	1,341.23	1,507.16	1,573.52	1,682.40	1,576.38	1,568.52	1,828.25	1,800.71	1,935.22	2,153.09
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.1	0.1	0.1	0.1
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	13.6	13.0	12.3	11.4
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	81.7	82.5	83.3	84.3
120.5	123.0	122.2	121.9	123.1	118.5	117.6	107.4	100.5	100.0	95.6	86.3	78.3
98.659	119.586	135.385	151.465	173.871	180.914	188.195	174.864	174.403	202.683	191.066	201.928	228.654
103.883	127.340	141.308	165.878	196.072	201.284	213.297	186.759	180.711	214.042	202.008	207.969	233.194
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-7.833	-3.159	-8.193	-8.331	-5.053	-5.779
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2.507	10.248	6.993	9.786	12.412	16.470
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-6.789	10.028	10.044	4.684	-2.377	0.994
7.7712	7.7406	7.7356	7.7284	7.7358	7.7343	7.7421	7.7453	7.7575	7.7912	7.7988	7.7989	7.7868
6.6760	7.1365	7.7983	8.1440	8.2343	8.4018	8.7971	8.8447	8.2535	7.4968	7.2945	6.9220	6.5858
77.5	84.9	92.2	98.5	101.0	106.9	113.0	113.2	106.6	100.0	98.1	94.6	89.6
96.4	98.2	98.8	100.9	103.7	103.6	103.3	101.4	99.8	100.0	98.4	95.7	95.4
66.1	72.4	78.8	85.7	93.5	99.4	105.2	108.2	103.9	100.0	98.4	95.4	92.9
5.60	6.60	6.30	5.50	3.90	4.30	5.10	-5.00	3.40	10.20	0.46	1.89	3.22
0.88	0.81	1.72	1.64	2.63	4.55	0.82	0.85	0.96	0.88	0.90	0.92	0.43
3.4	1.8	0.7	2.1	2.7	-0.1	-0.3	-1.8	-1.6	0.2	-1.6	-2.7	-0.3
11.2	9.6	8.8	8.8	9.0	6.4	5.8	2.9	-4.0	-3.7	-1.6	-3.0	-2.6

Original Table (Energy Demand and Supply) of Hong Kong, China in 2003

Year:2003

Hong Kong, China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
TOTAL PRODUCTION						TJ
OPENING STOCKS						
LPG	11,905.00	t	0.0432	TJ/t	514.60	TJ
MOGAS	40,400.00	kl	0.0309	TJ/kl	1,247.35	TJ
JET FUEL	99,349.00	kl	0.0324	TJ/kl	3,218.41	TJ
KEROSENE	2,033.00	kl	0.0333	TJ/kl	67.60	TJ
DIESEL OIL	199,599.59	t	0.0404	TJ/t	8,058.83	TJ
FUEL OIL	178,284.11	t	0.0394	TJ/t	7,028.85	TJ
TOTAL OPENING STOCKS					20,135.64	TJ
CLOSING STOCKS						
LPG	12,034.00	t	0.0432	TJ/t	520.17	TJ
MOGAS	38,242.00	kl	0.0309	TJ/kl	1,180.73	TJ
JET FUEL	138,869.00	kl	0.0324	TJ/kl	4,498.66	TJ
KEROSENE	2,158.00	kl	0.0333	TJ/kl	71.75	TJ
DIESEL OIL	137,209.85	t	0.0404	TJ/t	5,539.85	TJ
FUEL OIL	99,260.16	t	0.0394	TJ/t	3,913.34	TJ
TOTAL CLOSING STOCKS					15,724.50	TJ
STOCK CHANGE						
LPG	-129.00	t	0.0432	TJ/t	-5.58	TJ
MOGAS	2,158.00	kl	0.0309	TJ/kl	66.63	TJ
JET FUEL	-39,520.00	kl	0.0324	TJ/kl	-1,280.25	TJ
KEROSENE	-125.00	kl	0.0333	TJ/kl	-4.16	TJ
DIESEL OIL	62,389.73	t	0.0404	TJ/t	2,518.99	TJ
FUEL OIL	79,023.95	t	0.0394	TJ/t	3,115.52	TJ
TOTAL STOCK CHANGE					4,411.15	TJ
IMPORTS						
COAL	10,699,596.00	t	0.0251	TJ/t	268,347.74	TJ
HARD COAL	10,698,919.00	t	0.0251	TJ/t	268,328.89	TJ
ANTHRACITE	677.00	t	0.0278	TJ/t	18.85	TJ
LPG	330,530.00	t	0.0432	TJ/t	14,287.16	TJ
NAPHTHA	599,708.39	t	0.0419	TJ/t	25,124.78	TJ
MOGAS	500,933.00	kl	0.0309	TJ/kl	15,466.30	TJ
JET FUEL	4,114,519.00	kl	0.0324	TJ/kl	133,289.85	TJ
DIESEL OIL	5,391,187.24	t	0.0404	TJ/t	217,669.19	TJ
FUEL OIL	4,000,887.52	t	0.0394	TJ/t	157,734.99	TJ
NATURAL GAS AND LNG	1,360,595.00	t	0.0381	TJ/t	51,797.85	TJ
NATURAL GAS	1,360,595.00	t	0.0381	TJ/t	51,797.85	TJ
ELECTRICITY	10,396.67	GWh	3.6000	TJ/GWh	37,428.00	TJ
TOTAL IMPORTS					921,145.86	TJ
EXPORTS						
COAL	14,725.00	t	0.0251	TJ/t	369.30	TJ
HARD COAL	14,725.00	t	0.0251	TJ/t	369.30	TJ
LPG	1,712.00	t	0.0432	TJ/t	74.01	TJ
MOGAS	41,948.00	kl	0.0309	TJ/kl	1,295.14	TJ
JET FUEL	127,599.00	kl	0.0324	TJ/kl	4,133.57	TJ
DIESEL OIL	134,746.88	t	0.0404	TJ/t	5,440.40	TJ
FUEL OIL	897,895.18	t	0.0394	TJ/t	35,399.52	TJ
ELECTRICITY	3,007.50	GWh	3.6000	TJ/GWh	10,827.00	TJ
TOTAL EXPORTS					57,538.95	TJ
INTERNATIONAL MARINE BUNKERS					215,206.74	TJ
DIESEL OIL	2,364,861.36	t	0.0404	TJ/t	95,481.28	TJ
FUEL OIL	3,036,790.28	t	0.0394	TJ/t	119,725.46	TJ
TOTAL PRIMARY ENERGY SUPPLY					652,811.32	TJ
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
GAS PROCESSING						
NAPHTHA	668,752.83	t	0.0419	TJ/t	28,017.40	TJ
POWER GENERATION (PUBLIC UTILITIES)						
COAL	10,722,489.00	t	0.0251	TJ/t	268,920.02	TJ
DIESEL OIL	6,842.00	t	0.0404	TJ/t	276.25	TJ
FUEL OIL	43,083.00	t	0.0394	TJ/t	1,698.54	TJ
NATURAL GAS AND LNG	1,360,595.04	t	0.0381	TJ/t	51,797.85	TJ
NATURAL GAS	1,360,595.04	t	0.0381	TJ/t	51,797.85	TJ
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
REFINING						
GAS RECOVERING						
TOWN GAS	27,002.00	TJ	0.9000	TJ/TJ	24,301.80	TJ
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	127,822.00	TJ	1.0000	TJ/TJ	127,822.00	TJ
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
ELECTRICITY	4,441.11	GWh	3.6000	TJ/GWh	15,988.00	TJ
TOTAL LOSSES AND OWN USE					15,988.00	TJ
FINAL ENERGY CONSUMPTION TOTAL						
COAL	8,990.00	t	0.0253	TJ/t	227.34	TJ
HARD COAL	8,313.00	t	0.0251	TJ/t	208.49	TJ

Original Table (Energy Demand and Supply) of Hong Kong, China in 2003 (Continued)

Year:2003

Hong Kong, China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ANTHRACITE	677.00	t	0.0278	TJ/t	18.85	TJ
LPG	367,692.00	t	0.0432	TJ/t	15,893.49	TJ
MOGAS	467,737.00	kl	0.0309	TJ/kl	14,441.38	TJ
JET FUEL	3,942,757.00	kl	0.0324	TJ/kl	127,725.61	TJ
KEROSENE	64,094.00	kl	0.0333	TJ/kl	2,131.13	TJ
DIESEL OIL	2,913,551.67	t	0.0404	TJ/t	117,634.65	TJ
FUEL OIL	3,739.48	t	0.0394	TJ/t	147.43	TJ
TOWN GAS	27,002.00	TJ	0.9000	TJ/TJ	24,301.80	TJ
ELECTRICITY	38,453.89	GWh	3.6000	TJ/GWh	138,434.00	TJ
TOTAL					440,936.82	TJ
AGRICULTURE						
TOTAL						TJ
RESIDENTIAL COMMERCIAL						
LPG	149,917.00	t	0.0432	TJ/t	6,480.16	TJ
KEROSENE	54,165.84	kl	0.0333	TJ/kl	1,801.01	TJ
TOWN GAS	25,988.00	TJ	0.9000	TJ/TJ	23,389.20	TJ
ELECTRICITY ***	123,199.00	TJ	1.0000	TJ/TJ	123,199.00	TJ
TOTAL					154,869.38	TJ
OTHERS						
ELECTRICITY	106.67	GWh	3.6000	TJ/GWh	384.00	TJ
TOTAL					384.00	TJ
INDUSTRY						
KEROSENE	9,928.16	kl	0.0333	TJ/kl	330.11	TJ
DIESEL OIL	834,149.84	t	0.0404	TJ/t	33,678.80	TJ
FUEL OIL	3,739.48	t	0.0394	TJ/t	147.43	TJ
TOWN GAS	1,015.00	TJ	0.9000	TJ/TJ	913.50	TJ
ELECTRICITY	4,125.28	GWh	3.6000	TJ/GWh	14,851.00	TJ
TOTAL					49,920.84	TJ
TRANSPORT						
LPG	217,775.00	t	0.0432	TJ/t	9,413.32	TJ
MOGAS	467,737.00	kl	0.0309	TJ/kl	14,441.38	TJ
JET FUEL	3,942,757.00	kl	0.0324	TJ/kl	127,725.61	TJ
DIESEL OIL	2,079,401.83	t	0.0404	TJ/t	83,955.85	TJ
TOTAL					235,536.16	TJ
NON-ENERGY						
TOTAL NON-ENERGY USE						TJ

Note:

CA estimates the final energy consumption of petroleum products for each sector. According the definition of APEC Energy Statistics.

CA moved the data of Jet Fuel from International Marine Bunkers to Transport Sector.

The Physical Quantity of LPG for Stocks Change estimated by CA.

Original Table (Energy Demand and Supply) of Hong Kong, China in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	11683	
COAL		
OIL		
GAS		
HYDRO POWER		
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Hong Kong, China in 2003

2003

Hong Kong, China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
TOTAL						
1.2 CHEMICAL AND PETROCHEMICAL						
TOTAL						
1.3 NON-FERROUS METALS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS						
TOTAL						
1.5 PAPER, PULP AND PRINTING						
TOTAL						
1.6 OTHER INDUSTRIES						
TOTAL						
2 TRANSPORTATION SECTOR						
2.1 AIR						
TOTAL						
2.2 ROAD						
TOTAL						
2.3 RAIL						
TOTAL						
2.4 INTERNAL NAVIGATION						
TOTAL						
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
TOWN GAS	10,542.00	Terajoules	1.0000	TJ / TJ	10,542.00	Terajoules
ELECTRICITY	24,782.78	GWh	3.6000	TJ / GWh	89,218.00	Terajoules
TOTAL					99,760.00	Terajoules
3.2 RESIDENTIAL						
TOWN GAS	15,446.00	Terajoules	1.0000	TJ / TJ	15,446.00	Terajoules
ELECTRICITY	9,545.83	GWh	3.6000	TJ / GWh	34,365.00	Terajoules
TOTAL					49,811.00	Terajoules

Source: Hong Kong Energy Statistics
 Census and Statistics Department
 HKSAR of China

Original Table (Energy Price) of Hong Kong, China in 2003
Year: 2003

Hong Kong, China	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG	HK\$ / kg	2.64	Import unit value refers @
NAPHTHA	HK\$ / litre	* 1.65	Import unit value refers @
MOGAS Motor gasoline (unleaded petrol)	HK\$ / litre	2.00	Import unit value refers @
JET FUEL	HK\$ / litre	# 1.69	Import unit value refers @
KEROSENE			
DIESEL OIL			
FUEL OIL	HK\$ / litre	1.35	Import unit value refers @
NATURAL GAS (LNG) (Gaseous)	HK\$ / kg	1.1	Import unit value refers @
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS Motor gasoline - Unleaded petrol 98	HK\$ / litre	11.16	Standard list price ##
JET FUEL - Aviation gasoline 100	HK\$ / litre	14.00	Standard list price ##
- Aviation jet fuel	HK\$ / litre	5.92	Standard list price ##
KEROSENE	HK\$ / litre	4.69	Standard list price ##
DIESEL OIL - Light diesel for motor vehicles	HK\$ / litre	6.07	Standard list price ##
- Light diesel for industrial and marine	HK\$ / litre	4.74	Standard list price ##
FUEL OIL	HK\$ / litre	-	Standard list price ##
LPG	HK\$ / kg	9.49	Standard list price ##
ELECTRICITY (AVERAGE)(*1)	HK\$ / megajoule	0.25	Average charge per unit refers **
ELECTRICITY (INDUSTRY)			
ELECTRICITY (COMMERCIAL)			
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS			
TOWN GAS	HK\$ / megajoule	0.21	Average charge per unit refers **
PETROLEUM PRODUCTS			
MOGAS Motor gasoline (unleaded petrol)			
KEROSENE			
DIESEL OIL			
LPG			
ELECTRICITY (RESIDENTIAL)			

Note : (*1) Or by any corresponding user types in each economy.

Remarks : * Figure included diesel oil.

Starting from 1995, kerosene and aviation kerosene are classified under the same item in the Hong Kong Harmonized System. This figures regarding imports and re-exports of jet fuel also include that of kerosene.

@ Import unit value = $\frac{\text{Imported value of the products of oil at cif basis}}{\text{Imported quantity of the products}}$

** Average charge per unit = $\frac{\text{Revenue from sales}}{\text{Amount for locally consumed}}$

Standard list prices of these oil products are supplied by one leading oil company in Hong Kong.

Original Table (Quarterly) of Hong Kong, China in 2004

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	NA	494	0	NA
	FEB.	NA	605	0	NA
	MAR.	NA	1,195	0	NA
	1st quarter	NA	2,295	1	NA
	APR.	NA	756	0	NA
	MAY.	NA	1,108	0	NA
	JUN.	NA	1,271	0	NA
	2nd quarter	NA	3,135	0	NA
	JUL.	NA	913	0	NA
	AUG.	NA	832	0	NA
	SEP.	NA	1,103	0	NA
	3rd quarter	NA	2,847	0	NA
	OCT.	Nil	857	0	NA
	NOV.	Nil	817	0	NA
	DEC.	Nil	749	0	NA
	4th quarter	Nil	2,423	0	NA
			NA	10,701	1

Oil		Unit: 1,000kL						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	NA	NA	NA	NA	1,732	84	NA
	FEB.	NA	NA	NA	NA	1,248	161	NA
	MAR.	NA	NA	NA	NA	1,589	114	NA
	1st quarter	NA	NA	NA	NA	4,569	359	NA
	APR.	NA	NA	NA	NA	1,800	129	121
	MAY.	NA	NA	NA	NA	1,465	108	-55
	JUN.	NA	NA	NA	NA	1,735	86	23
	2nd quarter	NA	NA	NA	NA	5,000	323	89
	JUL.	NA	NA	NA	NA	1,529	116	-133
	AUG.	NA	NA	NA	NA	1,525	81	277
	SEP.	NA	NA	NA	NA	1,477	176	-299
	3rd quarter	NA	NA	NA	NA	4,532	373	-155
	OCT.	NA	NA	NA	NA	1,844	145	116
	NOV.	NA	NA	NA	NA	1,542	145	-97
	DEC.	NA	NA	NA	NA	1,587	117	64
	4th quarter	NA	NA	NA	NA	4,973	407	83
			NA	NA	NA	NA	19,074	1,461

Original Table (Quarterly) of Hong Kong, China in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000ton
		Production	Imports	Exports	Stock Changes	
2004	JAN.	NA	79	-	NA	
	FEB.	NA	131	-	NA	
	MAR.	NA	109	-	NA	
	1st quarter	NA	319	-	NA	
	APR.	NA	124	-	NA	
	MAY.	NA	185	-	NA	
	JUN.	NA	180	-	NA	
	2nd quarter	NA	489	-	NA	
	JUL.	NA	193	-	NA	
	AUG.	NA	205	-	NA	
	SEP.	NA	195	-	NA	
	3rd quarter	NA	593	-	NA	
	OCT.	NA	192	-	NA	
	NOV.	NA	181	-	NA	
	DEC.	NA	190	-	NA	
	4th quarter	NA	564	-	NA	
		NA	1,966	-	NA	

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	-	-	NA	NA	NA	-	-
	FEB.	-	-	NA	NA	NA	-	-
	MAR.	-	-	NA	NA	NA	-	-
	1st quarter	7,080	7,080	NA	NA	NA	2,268	527
	APR.	-	-	NA	NA	NA	-	-
	MAY.	-	-	NA	NA	NA	-	-
	JUN.	-	-	NA	NA	NA	-	-
	2nd quarter	10,318	10,318	NA	NA	NA	1,906	558
	JUL.	-	-	NA	NA	NA	-	-
	AUG.	-	-	NA	NA	NA	-	-
	SEP.	-	-	NA	NA	NA	-	-
	3rd quarter	11,032	11,032	NA	NA	NA	3,359	917
	OCT.	-	-	NA	NA	NA	-	-
	NOV.	-	-	NA	NA	NA	-	-
	DEC.	-	-	NA	NA	NA	-	-
	4th quarter	8,699	8,699	NA	NA	NA	2,304	1,085
		37,129	37,129	NA	NA	NA	9,837	3,087

Note: ton=Metric ton.

bbL=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.7 Indonesia

Energy Balance Table of Indonesia in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	62,138	-	53,003	-	-	-	-	-	-
2 Import	-	-	17,363	6,721	475	-	96	842	3,774
3 Export	-46,586	-	-25,988	-4,978	-	-785	-	-	-
4 International Marine Bunkers	-	-	-	-182	-	-	-	-	-130
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	15,551	-	44,378	1,561	475	-785	96	842	3,644
7 Public Electricity	-12,503	-	-	-5,485	-	-	-	-	-3,767
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	1,346	-	-	-	-	-
10 Petroleum Refineries	-	-	-46,396	43,033	8,530	1,089	1,278	6,988	12,365
11 Coal Transformation	-14	9	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	2,146	1	2,018	130	1,817	0	-153	936	2,149
14 Total Final Energy Consumption	5,180	11	-	40,585	10,821	304	1,221	8,766	14,391
15 Industry Sector	3,049	-	-	9,698	-	-	-	40	5,721
16 Transport Sector	-	-	-	20,952	10,821	-	1,221	-	8,670
17 Other Sector	2,131	9	-	9,631	-	-	-	8,726	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	2,131	9	-	9,631	-	-	-	8,726	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	304	-	304	-	-	-

Energy Balance Table of Indonesia in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	56,206	-	57,692	-	-	-	-	-	-
2 Import	-	-	15,720	13,590	2,328	-	147	2,041	7,917
3 Export	-40,332	-	-27,511	-8,467	-	-1,329	-	-	-
4 International Marine Bunkers	-	-	-	-182	-	-	-	-	-130
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	15,873	-	45,900	4,941	2,328	-1,329	147	2,041	7,788
7 Public Electricity	-10,884	-	-	-5,485	-	-	-	-	-3,767
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	1,346	-	-	-	-	-
10 Petroleum Refineries	-	-	-47,325	43,934	8,599	1,962	1,109	6,719	13,378
11 Coal Transformation	-13	10	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	34	0	1,425	262	-793	0	-57	6	-242
14 Total Final Energy Consumption	5,010	11	-	44,999	10,134	633	1,200	8,766	17,157
15 Industry Sector	2,948	-	-	10,653	-	-	-	40	6,676
16 Transport Sector	-	-	-	22,072	10,134	-	1,200	-	10,481
17 Other Sector	2,062	11	-	9,631	-	-	-	8,726	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	2,062	11	-	9,631	-	-	-	8,726	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	633	-	633	-	-	-

Energy Balance Table of Indonesia in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	63,621	-	783	-	5,413	-	-	-	184,957
431	-	-	1,104	-	-	-	-	-	-	-	-	24,084
-285	-1,158	-	-2,750	-27,954	-	-	-	-	-	-	-	-105,506
-52	-	-	-	-	-	-	-	-	-	-	-	-182
-	-	-	-	-	-	-	-	-	-	-	-	-
94	-1,158	-	-1,646	35,667	-	783	-	5,413	-	-	-	103,353
-1,718	-	-	-	-4,205	-	-783	-	-5,413	-	12,237	-	-16,152
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,346	-	-	-7,561	-	-	-	-	-	-	-	-6,216
4,818	858	-	7,108	-639	-	-	-	-	-	-	-	-4,003
-	-	-	-	-	-	-	-	-	-	-	-	-4
-	-	-	-	-16,038	-	-	-	-	-	-1,931	-	-17,969
672	171	-	-5,461	3,412	-	-	-	-	-	175	-	7,883
3,866	1,216	-	-	10,637	-	-	-	-	-	10,481	-	66,893
3,626	310	-	-	5,095	-	-	-	-	-	5,610	-	23,453
240	-	-	-	13	-	-	-	-	-	-	-	20,965
-	905	-	-	99	-	-	-	-	-	4,871	-	16,740
-	-	-	-	-	-	-	-	-	-	-	-	-
-	905	-	-	99	-	-	-	-	-	4,227	-	16,096
-	-	-	-	-	-	-	-	-	-	644	-	644
-	-	-	-	4,801	-	-	-	-	-	-	-	5,105

Energy Balance Table of Indonesia in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	55,246	-	855	-	5,364	-	-	-	175,363
1,102	-	-	55	-	-	-	-	-	-	-	-	29,310
-463	-1,327	-	-5,348	-27,764	-	-	-	-	-	-	-	-104,074
-52	-	-	-	-	-	-	-	-	-	-	-	-182
-	-	-	-	-	-	-	-	-	-	-	-	-
587	-1,327	-	-5,293	27,483	-	855	-	5,364	-	-	-	100,416
-1,718	-	-	-	-4,190	-	-855	-	-5,364	-	11,826	-	-14,952
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,346	-	-	-7,561	-	-	-	-	-	-	-	-6,216
5,306	852	-	6,009	-639	-	-	-	-	-	-	-	-4,030
-	-	-	-	-	-	-	-	-	-	-	-	-3
-	-	-	-	-8,316	-	-	-	-	-	-1,806	-	-10,122
1,718	346	-	-716	2,753	-	-	-	-	-	72	-	4,547
5,893	1,217	-	-	9,529	-	-	-	-	-	10,093	-	69,641
3,626	310	-	-	5,095	-	-	-	-	-	5,662	-	24,357
256	1	-	-	14	-	-	-	-	-	-	-	22,085
-	905	-	-	99	-	-	-	-	-	4,431	-	16,234
-	-	-	-	-	-	-	-	-	-	-	-	-
-	905	-	-	99	-	-	-	-	-	3,938	-	15,741
-	-	-	-	-	-	-	-	-	-	493	-	493
-	-	-	-	4,301	-	-	-	-	-	-	-	4,934

Major Energy Indicators of Indonesia

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	31,067	28,065	36,101	36,434	40,626	39,431	46,451	53,252	58,217
Indigenous Production	92,083	96,628	95,715	100,568	102,530	103,638	112,075	119,434	133,444
Import	7,367	5,280	5,097	5,259	6,083	5,208	7,110	9,999	9,915
Export	-68,076	-73,532	-64,646	-69,373	-67,926	-69,331	-72,582	-75,853	-85,087
Final Energy Consumption	21,078	24,182	24,316	25,663	26,564	28,215	31,290	33,956	36,218
Industry	6,756	8,347	8,285	8,748	8,969	9,626	10,941	11,767	12,766
Transport	6,236	7,242	7,086	7,529	8,290	8,982	9,917	11,205	12,116
Residential & Commercial	7,138	6,845	6,057	6,076	6,129	6,363	6,671	7,133	7,462
Agriculture	-	-	-	-	-	-	-	-	-
Coal, Coal Products									
Primary Energy Supply	166	580	889	1,601	1,635	1,957	4,026	4,056	4,564
Indigenous Production	200	904	873	1,015	1,063	2,006	4,779	5,785	7,828
Import	26	-	398	849	731	707	504	663	552
Export	-59	-324	-383	-264	-159	-756	-1,256	-2,392	-3,816
Transformation Sector	-	-92	-365	-758	-996	-1,305	-1,871	-2,268	-2,546
Power Generation	-	-92	-349	-745	-984	-1,292	-1,857	-2,252	-2,531
Final Energy Consumption	75	148	319	653	867	973	1,304	1,149	1,562
Industry	61	146	282	631	832	959	1,209	1,110	1,511
Transport	14	2	1	0	0	0	0	0	0
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	30,739	26,103	30,196	28,595	33,291	31,176	33,298	38,632	39,158
Indigenous Production	76,731	68,613	64,984	68,312	67,952	65,145	68,140	70,733	77,067
Import	4,387	4,554	4,313	3,694	4,026	2,661	3,739	6,085	5,928
Export	-50,379	-47,064	-39,102	-43,411	-38,687	-36,630	-38,580	-38,186	-43,838
Transformation Sector	-25,704	-26,577	-26,765	-29,039	-31,195	-32,884	-33,096	-36,609	-38,113
Petroleum Refineries	-25,704	-26,577	-26,632	-28,991	-31,148	-32,735	-33,007	-36,471	-37,915
Petroleum Products									
Primary Energy Supply	-4,990	-8,992	-7,173	-7,238	-8,185	-8,527	-8,155	-8,202	-7,719
Import	2,955	726	385	716	1,327	1,839	2,868	3,251	3,435
Export	-7,637	-9,406	-7,494	-7,934	-9,451	-10,283	-10,871	-11,125	-11,099
Transformation Sector	24,640	24,323	22,413	25,198	27,104	29,085	30,895	33,548	33,986
Power Generation	-1,690	-2,978	-2,929	-2,419	-2,947	-3,021	-2,790	-3,764	-4,624
Petroleum Refineries	25,865	26,602	27,941	30,312	32,720	34,185	34,305	38,041	39,192
Final Energy Consumption	18,052	19,176	18,184	18,695	19,124	20,339	22,233	24,681	26,047
Industry	4,751	5,219	4,914	4,817	4,750	4,981	5,574	6,317	6,638
Transport	6,221	7,240	7,084	7,528	8,290	8,982	9,917	11,203	12,110
Residential & Commercial	6,687	6,247	5,629	5,598	5,587	5,748	5,995	6,379	6,598
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	4,827	9,669	11,307	12,367	12,657	13,095	15,385	16,889	20,337
Indigenous Production	14,828	26,407	28,975	30,132	32,286	34,756	37,260	41,040	46,671
Import	-	-	-	-	-	-	-	-	-
Export	-10,002	-16,738	-17,668	-17,764	-19,630	-21,661	-21,875	-24,151	-26,334
Transformation Sector	-1,278	-2,902	-13,138	-13,443	-14,242	-14,492	-16,116	-16,636	-18,778
Power Generation	-	-2	-91	-144	-151	-216	-209	-249	-300
Final Energy Consumption	2,326	3,533	4,385	4,709	4,821	4,917	5,468	5,504	5,664
Industry	1,664	2,272	2,313	2,414	2,456	2,632	2,897	2,862	2,973
Transport	-	-	-	-	-	0	0	1	4
Residential & Commercial	107	97	7	6	9	6	7	5	5
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	855	1,520	1,810	2,028	2,221	2,491	2,840	3,245	3,604
Thermal	529	1,009	1,112	1,120	1,413	1,629	1,833	2,310	2,688
Hydro	325	512	698	908	808	862	1,007	935	916
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	624	1,325	1,428	1,607	1,752	1,985	2,284	2,624	2,945
Industry	280	710	776	887	931	1,053	1,261	1,478	1,644
Transport	-	-	-	-	-	-	-	1	1
Residential & Commercial	344	501	421	471	533	609	669	749	859
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Indonesia (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
62,157	67,615	61,190	82,578	93,537	93,673	88,044	89,922	101,236	94,213	100,416	103,353
137,015	140,898	146,142	168,134	177,079	179,130	179,114	182,300	183,995	168,460	175,363	184,957
13,427	14,554	14,323	15,761	18,507	21,379	15,701	21,529	21,403	25,696	29,310	24,084
-88,247	-87,789	-99,234	-100,911	-101,974	-106,566	-106,730	-113,761	-103,804	-99,943	-104,074	-105,506
38,767	41,102	44,562	49,272	53,475	56,446	56,256	61,002	63,569	68,387	69,641	66,893
13,997	15,109	16,453	19,678	20,934	20,920	19,900	22,415	22,658	25,878	24,357	23,453
12,910	13,652	15,309	16,673	18,609	20,411	19,985	20,136	21,452	21,538	22,085	20,965
7,996	8,219	8,662	9,628	10,429	10,975	11,508	13,102	14,457	13,032	15,741	16,096
-	-	-	-	-	-	-	-	-	-	-	-
3,826	5,625	4,268	6,579	8,565	8,064	8,830	11,056	10,956	14,822	15,873	15,551
12,612	15,443	17,138	23,955	28,820	31,412	35,642	42,158	44,007	50,316	56,206	62,138
590	609	574	547	567	540	377	480	272	-	-	-
-9,376	-10,426	-13,444	-17,924	-20,823	-23,888	-27,190	-31,582	-33,323	-35,495	-40,332	-46,586
-2,606	-2,351	-2,795	-3,183	-5,416	-6,487	-7,004	-8,172	-10,052	-10,618	-10,888	-12,507
-2,592	-2,337	-2,777	-3,163	-5,378	-6,439	-6,965	-8,161	-10,048	-10,612	-10,884	-12,503
1,594	1,653	2,075	1,116	1,117	1,221	1,315	1,874	2,053	4,272	5,020	5,191
1,566	1,629	2,034	1,076	1,058	1,187	1,246	1,772	1,821	3,364	2,948	3,049
-	-	-	-	-	-	-	-	-	-	-	-
-	0	1	2	4	5	7	10	17	-	2,073	2,139
-	-	-	-	-	-	-	-	-	-	-	-
42,246	42,559	38,702	41,784	45,943	42,478	42,825	39,177	49,852	45,656	45,900	44,378
73,000	72,587	73,146	72,904	73,127	72,474	71,293	65,928	68,981	61,956	57,692	53,003
8,099	7,521	8,527	9,107	9,569	8,381	8,901	11,288	10,660	14,293	15,720	17,363
-38,852	-37,548	-42,971	-40,227	-36,752	-38,377	-37,368	-38,039	-29,789	-30,593	-27,511	-25,988
-40,311	-39,547	-39,260	-39,486	-45,659	-44,325	-45,278	-45,323	-49,298	-47,567	-47,325	-46,396
-40,082	-39,390	-39,174	-39,246	-45,532	-44,325	-45,278	-45,323	-49,298	-47,567	-47,325	-46,396
-7,683	-4,964	-6,611	-7,875	-5,033	-647	-4,132	-464	1,171	2,832	4,941	1,561
4,738	6,425	5,223	6,107	8,371	12,458	6,424	9,760	10,471	11,403	13,590	6,721
-12,383	-11,340	-11,791	-13,576	-13,328	-12,834	-10,515	-10,078	-8,942	-8,571	-8,467	-4,978
35,513	34,147	36,243	38,398	42,586	39,783	41,137	41,941	42,743	44,224	39,795	38,894
-5,147	-5,914	-3,401	-2,676	-3,003	-5,183	-3,846	-3,693	-4,501	-4,570	-5,485	-5,485
41,362	40,502	40,300	41,588	46,092	45,870	46,460	47,112	48,490	47,312	43,934	43,033
28,106	29,613	31,858	33,260	36,022	38,528	38,893	40,531	44,061	43,974	44,999	40,585
7,492	8,163	8,482	8,739	9,138	9,585	9,479	9,568	10,948	10,479	10,653	9,698
12,904	13,642	15,296	16,661	18,597	20,393	19,961	20,113	21,432	21,523	22,072	20,952
7,012	7,118	7,395	7,715	8,201	8,387	8,610	9,969	10,873	9,189	9,631	9,631
-	-	-	-	-	-	-	-	-	-	-	-
21,598	22,236	22,201	38,832	40,683	40,333	35,897	35,523	34,048	24,905	27,483	35,667
49,234	50,710	53,230	68,017	71,754	71,800	67,555	69,584	65,798	50,189	55,246	63,621
-	-	-	-	-	-	-	-	-	-	-	-
-27,636	-28,474	-31,028	-29,185	-31,070	-31,467	-31,657	-34,061	-31,750	-25,284	-27,764	-27,954
-20,342	-20,509	-23,725	-30,644	-32,278	-31,691	-27,866	-26,352	-26,278	-22,379	-20,706	-28,443
-289	-952	-3,798	-9,515	-9,557	-9,962	-9,554	-9,898	-10,468	-4,604	-4,190	-4,205
5,703	6,134	6,422	7,831	8,699	8,306	7,837	8,296	8,089	10,345	9,529	10,637
3,037	3,244	3,589	4,951	5,594	4,642	4,168	4,214	4,407	6,564	5,095	5,095
4	8	11	13	11	18	23	23	20	15	14	13
5	6	6	7	7	8	8	9	28	10	99	99
-	-	-	-	-	-	-	-	-	-	-	-
4,005	4,387	4,963	7,889	8,522	9,432	9,281	9,750	10,561	11,180	11,826	12,237
2,815	3,241	3,835	6,754	7,354	8,541	8,121	8,631	9,699	10,264	10,972	11,454
1,189	1,147	1,128	1,136	1,169	892	1,160	1,119	862	916	855	783
-	-	-	-	-	-	-	-	-	-	-	-
3,363	3,701	4,207	7,065	7,637	8,390	8,212	10,301	9,365	9,795	10,093	10,481
1,902	2,073	2,347	4,913	5,144	5,505	5,007	6,862	5,482	5,471	5,662	5,610
1	2	2	-	-	-	-	-	-	-	-	-
979	1,096	1,259	1,905	2,217	2,576	2,883	3,114	3,538	3,834	3,938	4,227
-	-	-	-	-	-	-	-	-	-	-	-

Major Economic Indicators of Indonesia

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	148.30	160.08	163.04	166.02	168.99	171.99	175.06	178.23
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	74.60	94.80	98.10	103.95	109.46	116.42	126.99	138.43
Real Term (Billions of 1995 Price and 1995 PPP)	197.24	250.67	259.39	274.86	305.78	307.82	335.78	366.01
Nominal (Billions of Current USD)	78.01	87.61	87.34	80.06	75.93	88.79	101.46	114.43
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	503	592	602	626	648	677	725	777
Real Term (1995 Price and 1995 PPP)	1,330	1,566	1,591	1,656	1,713	1,790	1,918	2,054
Nominal (Current USD)	526	547	536	482	449	516	580	642
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	48,913	89,885	96,997	102,683	124,817	149,669	179,582	210,866
Household Final Consumption Expenditure, etc.	25,594	54,067	57,201	63,355	71,989	89,722	96,632	119,802
General Government Final Consumption Expenditure	5,148	9,121	10,893	11,329	11,764	12,756	15,698	18,649
Gross Fixed Capital Formation	10,550	19,842	22,041	26,202	31,418	38,356	47,706	59,758
Stock Change	1,223	4,277	5,077	4,137	6,269	4,815	10,773	4,911
Exports of Goods and Services	16,718	22,999	21,534	20,010	29,874	35,585	43,614	53,409
Imports of Goods and Services	9,886	19,845	19,835	21,036	27,956	31,566	38,443	50,046
Real GDP & its Components (Billions of 1993 IDR) *1								
Gross Domestic Product	141,872	180,300	186,570	197,698	208,176	221,407	241,521	263,262
Household Final Consumption Expenditure, etc.	73,031	121,041	129,050	131,289	133,098	123,144	132,330	155,094
General Government Final Consumption Expenditure	15,987	19,426	20,873	21,492	21,455	23,080	25,458	26,689
Gross Fixed Capital Formation	32,356	37,845	40,568	44,301	46,737	52,116	59,891	69,519
Stock Change	3,547	4,508	4,664	4,942	5,204	12,650	12,846	11,133
Exports of Goods and Services	56,162	45,357	41,818	48,180	55,225	55,806	59,566	61,565
Imports of Goods and Services	39,211	47,877	50,404	52,506	53,543	43,533	48,570	59,818
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	26.7	23.8	23.9	23.2	22.5	22.2	21.9	20.7
Industry	35.6	35.9	35.3	35.7	36.0	36.2	38.5	39.0
Services, etc.	37.7	40.4	40.8	41.2	41.5	41.7	39.6	40.4
Manufacturing Production Index (2000=100)	29.1	35.9	38.6	41.0	45.9	52.5	58.8	67.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.909	21.902	18.590	16.075	17.135	19.465	22.160	25.675
Imports, c.i.f.	10.834	13.882	10.262	10.718	12.891	13.249	16.444	21.837
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	5.707	5.822	2.458	4.674	5.678	6.664	5.352
Current Account	N.A.	-1.856	-1.923	-3.911	-2.098	-1.397	-1.108	-2.988
Overall Balance	N.A.	0.981	0.510	-1.003	0.630	-0.113	0.495	2.251
Foreign Exchange Rate (IDR/USD) *1	626.99	1,025.94	1,110.58	1,282.56	1,643.85	1,685.70	1,770.06	1,842.81
Purchasing Power Parity (IDR/International Dollar) *1	417.85	474.00	482.71	472.51	529.49	581.30	616.84	639.32
Price Indices								
GDP Deflator (1993=100) *3	34.5	49.9	52.0	51.9	60.0	67.6	74.4	80.1
Wholesale Price Index (2000=100) *2	10.1	15.7	16.5	16.9	20.1	21.1	22.9	25.2
Consumer Price Index (2000=100) *2	12.6	19.2	20.1	21.2	23.2	25.1	26.7	28.7
Growth Rate (%) *3								
Real GDP	8.73	7.17	3.48	5.96	5.30	6.36	9.08	9.00
Population	2.09	1.86	1.85	1.83	1.79	1.78	1.78	1.81
Price								
Wholesale Price Index	26.7	11.0	5.0	2.2	19.3	4.9	8.5	10.0
Consumer Price Index	18.1	10.5	4.7	5.8	9.3	8.0	6.4	7.8

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

Major Economic Indicators of Indonesia (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
181.32	184.32	187.23	190.04	192.75	195.46	198.16	200.87	203.57	206.27	209.01	211.82	214.67
150.78	161.67	173.40	186.47	202.13	217.58	227.81	197.90	199.47	209.28	216.50	224.49	233.70
398.69	427.47	458.48	493.05	534.45	575.30	602.34	523.27	527.41	553.36	572.46	593.57	752.74
128.17	139.12	158.01	176.89	202.13	227.37	215.75	95.45	140.00	150.20	143.03	172.97	208.31
832	877	926	981	1,049	1,113	1,150	985	980	1,015	1,036	1,060	1,089
2,199	2,319	2,449	2,594	2,773	2,943	3,040	2,605	2,591	2,683	2,739	2,802	2,878
707	755	844	931	1,049	1,163	1,089	475	688	728	684	817	970
249,969	282,395	329,776	382,220	454,514	532,568	627,695	955,754	1,099,732	1,264,919	1,467,655	1,610,565	1,786,691
140,805	157,484	185,946	225,410	276,641	328,298	380,278	647,824	813,183	850,819	972,938	1,046,288	1,171,634
20,785	24,731	29,757	31,014	35,584	40,299	42,952	54,416	72,631	90,780	113,416	132,219	163,701
67,488	72,774	86,667	105,381	129,217	157,653	177,686	243,043	221,472	275,881	314,066	326,165	352,361
11,387	13,294	10,546	13,327	15,900	5,800	21,615	-82,716	-96,461	-72,236	-53,624	-73,876	-67,258
64,485	78,764	88,231	101,332	119,593	137,533	174,871	506,245	390,560	542,992	624,341	577,082	558,091
60,248	70,481	78,383	96,953	125,657	140,812	176,600	413,058	301,654	423,318	503,482	471,188	459,097
286,765	307,471	329,776	354,641	384,418	413,798	433,246	376,375	379,353	398,017	411,754	426,943	444,454
167,455	172,640	192,958	208,062	234,245	257,016	277,116	260,023	272,070	276,377	285,675	296,559	308,477
28,094	29,702	29,757	30,443	30,851	31,681	31,701	26,828	27,014	28,768	31,352	35,362	38,843
78,488	81,302	86,667	98,589	112,386	128,699	139,726	93,605	76,573	89,389	95,197	95,397	96,696
9,884	16,125	10,546	14,836	15,853	5,873	3,342	-6,387	-9,622	-13,794	-13,042	-17,569	-19,562
73,126	83,152	88,231	97,002	104,492	112,391	121,158	134,707	91,864	116,194	119,600	118,920	123,724
69,226	75,242	78,383	94,291	114,035	121,863	139,796	132,401	78,546	98,917	107,028	101,727	103,725
19.0	18.8	17.9	16.7	16.1	15.4	14.9	16.9	17.1	16.6	16.3	16.1	15.8
39.3	43.2	39.7	41.0	41.8	43.0	43.2	42.8	43.3	43.7	43.5	43.4	43.1
41.7	38.0	42.4	42.3	42.1	41.6	42.0	40.3	39.6	39.7	40.2	40.5	41.0
73.8	82.4	91.6	107.7	119.8	125.7	115.9	94.7	96.5	100.0	98.9	91.9	97.3
29.142	33.967	36.823	40.055	45.417	49.814	53.443	48.847	48.665	62.124	56.447	57.159	60.955
25.869	27.280	28.328	31.983	40.630	42.929	41.694	27.337	24.004	33.515	31.010	31.289	32.551
4.801	7.022	8.231	7.901	6.533	5.948	10.075	18.429	20.643	25.042	22.696	23.513	24.844
-4.260	-2.780	-2.106	-2.792	-6.431	-7.663	-4.889	4.097	5.783	7.992	6.901	7.824	8.387
1.528	2.070	0.594	0.784	1.573	4.503	-8.137	-3.437	1.916	3.926	-0.015	4.958	3.647
1,950.32	2,029.92	2,087.10	2,160.75	2,248.61	2,342.30	2,909.38	10,013.62	7,855.15	8,421.78	10,260.85	9,311.19	8,577.13
610.20	635.65	742.74	793.13	850.43	910.87	1,006.00	1,695.10	1,867.59	2,010.88	2,277.17	2,392.65	2,476.24
87.2	91.8	100.0	107.8	118.2	128.7	144.9	253.9	289.9	317.8	356.4	377.2	402.0
26.5	27.9	28.9	30.5	33.9	36.6	39.9	80.5	88.9	100.0	114.2	117.3	119.8
31.5	33.8	37.1	40.3	44.1	47.6	50.5	80.0	96.4	100.0	111.5	124.8	133.0
8.93	7.22	7.25	7.54	8.40	7.64	4.70	-13.13	0.79	4.92	3.45	3.69	4.10
1.73	1.66	1.58	1.50	1.42	1.40	1.38	1.36	1.34	1.32	1.33	1.34	1.35
5.2	5.2	3.7	5.4	11.4	7.9	9.0	101.8	10.5	12.5	14.2	2.8	2.1
9.4	7.5	9.7	8.5	9.4	8.0	6.2	58.4	20.5	3.7	11.5	11.9	6.6

Original Table (Energy Demand and Supply) of Indonesia in 2003

Year:2003

Indonesia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	114,282.15	kt	0.5437	ktoe/kt	62,137.72	ktoe
HARD COAL	114,278.20	kt	0.5437	ktoe/kt	62,135.57	ktoe
STEAM COAL	10,013.12	kt	0.5437	ktoe/kt	5,444.36	ktoe
ANTHRACITE	3.95	kt	0.5439	ktoe/kt	2.15	ktoe
CRUDE OIL AND NGL/CONDENSATE	418,593.46	kbbbl	0.1266	ktoe/kbbbl	53,002.62	ktoe
CRUDE OIL	369,756.65	kbbbl	0.1266	ktoe/kbbbl	46,818.86	ktoe
NGL/CONDENSATE	48,836.81	kbbbl	0.1266	ktoe/kbbbl	6,183.75	ktoe
NATURAL GAS AND LNG	3,073,482.00	Mft ³	0.0207	ktoe/Mft ³	63,621.08	ktoe
NATURAL GAS	3,073,482.00	Mft ³	0.0207	ktoe/Mft ³	63,621.08	ktoe
HYDRO POWER	9,105.53	GWh	0.0860	ktoe/GWh	783.08	ktoe
GEOTHERMAL POWER	6,293.98	GWh	0.8600	ktoe/GWh	5,412.82	ktoe
TOTAL PRODUCTION					184,957.31	ktoe
OPENING STOCKS						
TOTAL OPENING STOCKS						ktoe
CLOSING STOCKS						
TOTAL CLOSING STOCKS						ktoe
STOCK CHANGE						
TOTAL STOCK CHANGE						ktoe
IMPORTS						
CRUDE OIL AND NGL/CONDENSATE	137,126.65	kbbbl	0.1266	ktoe/kbbbl	17,363.08	ktoe
CRUDE OIL	137,126.65	kbbbl	0.1266	ktoe/kbbbl	17,363.08	ktoe
MOGAS	4,045.84	kbbbl	0.1173	ktoe/kbbbl	474.69	ktoe
JET FUEL	807.67	kbbbl	0.1186	ktoe/kbbbl	95.79	ktoe
KEROSENE	7,053.53	kbbbl	0.1193	ktoe/kbbbl	841.77	ktoe
DIESEL OIL	28,889.44	kbbbl	0.1306	ktoe/kbbbl	3,773.74	ktoe
FUEL OIL	3,030.54	kbbbl	0.1422	ktoe/kbbbl	431.05	ktoe
OTHER PETROLEUM PRODUCTS	7,763.16	kbbbl	0.1423	ktoe/kbbbl	1,104.38	ktoe
TOTAL IMPORTS					24,084.49	ktoe
EXPORTS						
COAL	85,680.62	kt	0.5437	ktoe/kt	46,586.44	ktoe
HARD COAL	85,680.62	kt	0.5437	ktoe/kt	46,586.44	ktoe
STEAM COAL	85,680.62	kt	0.5437	ktoe/kt	46,586.44	ktoe
CRUDE OIL AND NGL/CONDENSATE	205,240.36	kbbbl	0.1266	ktoe/kbbbl	25,987.69	ktoe
CRUDE OIL	191,859.39	kbbbl	0.1266	ktoe/kbbbl	24,293.38	ktoe
NGL/CONDENSATE	13,380.97	kbbbl	0.1266	ktoe/kbbbl	1,694.31	ktoe
LPG	1,106.42	kt	1.0468	ktoe/kt	1,158.22	ktoe
NAPHTHA	6,494.25	kbbbl	0.1209	ktoe/kbbbl	784.89	ktoe
FUEL OIL	2,002.99	kbbbl	0.1422	ktoe/kbbbl	284.89	ktoe
OTHER PETROLEUM PRODUCTS	21,210.50	kbbbl	0.1297	ktoe/kbbbl	2,750.47	ktoe
NATURAL GAS AND LNG	1,369,603.00	GBTU	0.0204	ktoe/GBTU	27,953.87	ktoe
LNG	1,369,603.00	GBTU	0.0204	ktoe/GBTU	27,953.87	ktoe
TOTAL EXPORTS					105,506.48	ktoe
INTERNATIONAL MARINE BUNKERS						
DIESEL OIL	991.50	kbbbl	0.1306	ktoe/kbbbl	129.52	ktoe
FUEL OIL	368.64	kbbbl	0.1422	ktoe/kbbbl	52.43	ktoe
TOTAL					181.95	ktoe
TOTAL PRIMARY ENERGY SUPPLY					103,353.37	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	24.98	kt	0.5437	ktoe/kt	13.58	ktoe
REFINING						
CRUDE OIL AND NGL/CONDENSATE	366,420.53	kbbbl	0.1266	KBOE	46,396.44	ktoe
NATURAL GAS AND LNG	30,874.17	Mft ³	0.0207	ktoe/Mft ³	639.10	ktoe
NATURAL GAS	30,874.17	Mft ³	0.0207	ktoe/Mft ³	639.10	ktoe
GAS PROCESSING						
NATURAL GAS AND LNG	1,656,904.52	Mft ³	0.0207	ktoe/Mft ³	34,297.92	ktoe
NATURAL GAS	42,321.32	Mft ³	0.0207	ktoe/Mft ³	876.05	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
COAL	22,995.61	kt	0.5437	ktoe/kt	12,503.22	ktoe
HARD COAL	22,995.61	kt	0.5437	ktoe/kt	12,503.22	ktoe
STEAM COAL	22,995.61	kt	0.5437	ktoe/kt	12,503.22	ktoe
DIESEL OIL	28,835.37	kbbbl	0.1306	ktoe/BBL	3,766.67	ktoe
FUEL OIL	12,078.97	kbbbl	0.1422	ktoe/BBL	1,718.04	ktoe
NATURAL GAS AND LNG	203,115.98	Mft ³	0.0207	ktoe/Mft ³	4,204.50	ktoe
NATURAL GAS	203,115.98	Mft ³	0.0207	ktoe/Mft ³	4,204.50	ktoe
HYDRO POWER	9,105.53	GWh	0.0860	ktoe/GWh	783.08	ktoe
GEOTHERMAL POWER	6,293.98	GWh	0.8600	ktoe/GWh	5,412.82	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
BRIQUETTES	20.68	kt	0.4513	ktoe/kt	9.33	ktoe
REFINING						
LPG	819.34	kt	1.0468	ktoe/TON	857.69	ktoe
NAPHTHA	9,011.74	kbbbl	0.1209	ktoe/kbbbl	1,089.16	ktoe
MOGAS	72,698.07	kbbbl	0.1173	ktoe/kbbbl	8,529.58	ktoe
JET FUEL	10,700.87	kbbbl	0.1186	ktoe/kbbbl	1,269.07	ktoe
AVGAS	75.81	kbbbl	0.1186	ktoe/kbbbl	8.99	ktoe
KEROSENE	58,553.42	kbbbl	0.1193	ktoe/kbbbl	6,987.76	ktoe
DIESEL OIL	94,657.86	kbbbl	0.1306	ktoe/kbbbl	12,364.86	ktoe

Original Table (Energy Demand and Supply) of Indonesia in 2003 (Continued)

Year:2003

Indonesia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	33,874.34	kbbbl	0.1422	ktoe/kbbbl	4,818.08	ktoe
OTHER PETROLEUM PRODUCTS	55,031.64	kbbbl	0.1292	ktoe/kbbbl	7,107.53	ktoe
GAS RECOVERING						
LNG	1,352,878.48	GBTU	0.0204	ktoe/GBTU	27,612.52	ktoe
LPG	1,285.58	kt	1.0468	ktoe/TON	1,345.76	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	126,888.60	GWh	0.0860	ktoe/GWh	10,912.42	ktoe
HYDRO POWER	9,105.53	GWh	0.0860	ktoe/GWh	783.08	ktoe
GEOTHERMAL POWER	6,293.98	GWh	0.0860	ktoe/GWh	541.28	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
NATURAL GAS AND LNG	774,767.74	Mft ³	0.0207	ktoe/Mft ³	16,037.69	ktoe
NATURAL GAS	774,767.74	Mft ³	0.0207	ktoe/Mft ³	16,037.69	ktoe
ELECTRICITY	22,451.68	GWh	0.0860	ktoe/GWh	1,930.84	ktoe
TOTAL LOSSES AND OWN USE					17,968.54	ktoe
FINAL ENERGY CONSUMPTION TOTAL						
COAL	9,527.14	kt	0.5437	ktoe/TON	5,180.12	ktoe
HARD COAL	9,527.14	kt	0.5437	ktoe/TON	5,180.12	ktoe
STEAM COAL	9,527.14	kt	0.5437	ktoe/TON	5,180.12	ktoe
BRIQUETTES	23.34	kt	0.4513	ktoe/kt	10.53	ktoe
LPG	831.67	kt	1.0468	ktoe/TON	870.60	ktoe
MOGAS	92,231.82	kbbbl	0.1173	ktoe/kbbbl	10,821.45	ktoe
JET FUEL	10,285.36	kbbbl	0.1186	ktoe/kbbbl	1,219.79	ktoe
AVGAS	8.28	kbbbl	0.1186	ktoe/kbbbl	0.98	ktoe
KEROSENE	73,452.28	kbbbl	0.1193	ktoe/kbbbl	8,765.79	ktoe
DIESEL OIL	110,171.15	kbbbl	0.1306	ktoe/kbbbl	14,391.32	ktoe
FUEL OIL	27,177.06	kbbbl	0.1422	ktoe/kbbbl	3,865.50	ktoe
NATURAL GAS AND LNG	513,841.73	Mft ³	0.0207	ktoe/Mft ³	10,636.52	ktoe
NATURAL GAS	513,841.73	Mft ³	0.0207	ktoe/Mft ³	10,636.52	ktoe
ELECTRICITY	121,876.07	GWh	0.0860	ktoe/GWh	10,481.34	ktoe
TOTAL					66,243.95	ktoe
AGRICULTURE						
TOTAL						ktoe
RESIDENTIAL COMMERCIAL						
COAL	3,918.90	kt	0.5437	ktoe/kt	2,130.79	ktoe
HARD COAL	3,918.90	kt	0.5437	ktoe/kt	2,130.79	ktoe
STEAM COAL	3,918.90	kt	0.5437	ktoe/kt	2,130.79	ktoe
BRIQUETTES	18.98	kt	0.4513	ktoe/kt	8.56	ktoe
LPG	864.93	kt	1.0468	ktoe/TON	905.42	ktoe
KEROSENE	73,117.27	kbbbl	0.1193	ktoe/kbbbl	8,725.81	ktoe
NATURAL GAS AND LNG	4,778.00	Mft ³	0.0207	ktoe/Mft ³	98.90	ktoe
NATURAL GAS	4,778.00	Mft ³	0.0207	ktoe/Mft ³	98.90	ktoe
ELECTRICITY	49,151.03	GWh	0.0860	ktoe/GWh	4,226.99	ktoe
TOTAL					16,096.48	ktoe
OTHERS						
ELECTRICITY	7,487.96	GWh	0.0860	ktoe/GWh	643.96	ktoe
TOTAL					643.96	ktoe
INDUSTRY						
COAL	5,608.24	kt	0.5437	ktoe/kt	3,049.33	ktoe
HARD COAL	5,608.24	kt	0.5437	ktoe/kt	3,049.33	ktoe
STEAM COAL	5,608.24	kt	0.5437	ktoe/kt	3,049.33	ktoe
LPG	296.50	kt	1.0468	ktoe/TON	310.38	ktoe
KEROSENE	335.01	kbbbl	0.1193	ktoe/kbbbl	39.98	TOE
DIESEL OIL	43,799.25	kbbbl	0.1306	ktoe/kbbbl	5,721.36	TOE
FUEL OIL	25,492.13	kbbbl	0.1422	ktoe/kbbbl	3,625.85	TOE
NATURAL GAS AND LNG	246,154.00	Mft ³	0.0207	ktoe/Mft ³	5,095.39	TOE
NATURAL GAS	246,154.00	Mft ³	0.0207	ktoe/Mft ³	5,095.39	TOE
ELECTRICITY	65,237.08	GWh	0.0860	ktoe/GWh	5,610.39	ktoe
TOTAL					23,452.67	ktoe
TRANSPORT						
MOGAS	92,231.82	kbbbl	0.1173	ktoe/kbbbl	10,821.45	ktoe
JET FUEL	10,285.36	kbbbl	0.1186	ktoe/kbbbl	1,219.79	ktoe
AVGAS	8.28	kbbbl	0.1186	ktoe/kbbbl	0.98	ktoe
DIESEL OIL	66,371.90	kbbbl	0.1306	ktoe/kbbbl	8,669.96	ktoe
FUEL OIL	1,684.93	kbbbl	0.1422	ktoe/kbbbl	239.65	ktoe
NATURAL GAS AND LNG	645.72	Mft ³	0.0207	ktoe/Mft ³	13.37	ktoe
NATURAL GAS	645.72	Mft ³	0.0207	ktoe/Mft ³	13.37	ktoe
TOTAL					20,965.20	ktoe
NON-ENERGY						
NAPHTHA	2,517.49	kbbbl	0.1209	ktoe/kbbbl	304.26	ktoe
NATURAL GAS AND LNG	231,921.03	Mft ³	0.0207	ktoe/Mft ³	4,800.77	ktoe
NATURAL GAS	231,921.03	Mft ³	0.0207	ktoe/Mft ³	4,800.77	ktoe
TOTAL NON-ENERGY USE					5,105.03	ktoe

Original Table (Energy Demand and Supply) of Indonesia in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	19943.94	
COAL		
OIL		
GAS		
HYDRO POWER	3155	
NUCLEAR POWER	0	
GEOHERMAL POWER	789.5	
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	n.a.	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1057 MBSD	
VACUUM DISTILLATION CAPACITY	n.a.	
CATALYTIC HYDROCRACKING CAPACITY	110 MBSD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	n.a.	
RESIDUE HYDRODESULFURIZING CAPACITY	n.a.	
CATALYTIC CRACKING CAPACITY	103.5 MBSD	
CATALYTIC REFORMING CAPACITY	n.a.	
DELAYED COKER	35.2 MBSD	
VISBREAKER	55.6 MBSD	

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Energy Price) of Indonesia in 2003
Year: 2003

Indonesia	Unit	Price	Note
IMPORT CIF PRICES			1 US\$ = 9000 Rupiah
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL	US\$/Barrel	18,76 - 33,23	
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS	US\$/Barrel	28	
JET FUEL	US\$/Barrel	27	
AVGAS	US\$/Barrel	74	
KEROSENE	US\$/Barrel	32	
GAS OIL	US\$/Barrel	34	
DIESEL OIL			
FUEL OIL	US\$/Barrel	55	
PYGAS	US\$/Barrel	28	
NATURAL GAS (LNG)			
WHOLESALE PRICES			
COAL			
STEAM COAL	US\$/Mton	11,67 - 29,61	
COKING COAL			
NATURAL GAS	US\$/MMBtu	1,27 - 4,37	
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	Rupiah/Litre	1480 - 1750	
AVGAS	Rupiah/Litre	4000 - 4700	
JET FUEL	Rupiah/Litre	1800 - 2000	
KEROSENE	Rupiah/Litre	1640 - 2220	Based on MOPS price
GAS OIL	Rupiah/Litre	1510 - 2120	
DIESEL OIL	Rupiah/Litre	1480 - 2080	
FUEL OIL	Rupiah/Litre	1230 - 1650	
LPG	Rupiah/Kg	2400 - 2700	
ELECTRICITY (INDUSTRY)	Rupiah/KWh	120 - 387	
ELECTRICITY (COMMERCIAL)	Rupiah/KWh	200 - 490	
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS	Rupiah/M ³	600 - 1300	
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	Rupiah/Litre	1480 - 1750	
KEROSENE	Rupiah/Litre	600	
LPG	Rupiah/Kg	2400 - 2700	
ELECTRICITY (RESIDENTIAL)	Rupiah/KWh	100 - 620	

3.8 Japan

Energy Balance Table of Japan in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	683	-	712	-	-	-	-	-	-
2 Import	101,486	-	215,047	52,636	1,336	23,053	2,755	2,590	655
3 Export	-	-1,369	-	-15,482	-226	-65	-6,942	-168	-830
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	43	-	-741	-1,359	-54	376	-2	-842	-231
6 Total Primary Energy Supply	102,213	-1,369	215,018	35,795	1,055	23,364	-4,190	1,580	-406
7 Public Electricity	-42,254	-4,454	-5,990	-13,357	-	-2	-	-	-157
8 Autoproducers of Electricity	-5,602	-2,472	-	-11,816	-	-1,150	-	-8	-
9 Gas Processing	-	-784	-	-2,202	-	-42	-	-	-
10 Petroleum Refineries	-	-	-208,571	213,641	45,902	16,241	7,945	23,566	33,398
11 Coal Transformation	-39,952	34,840	-	-560	-	-	-	-	-
12 Loss & Own Use	-88	-2,806	-1	-12,575	-2	-48	-	-167	-65
13 Discrepancy	1,736	-1,240	-454	-1,456	219	-2,515	17	-761	211
14 Total Final Energy Consumption	16,053	21,715	1	207,470	47,174	35,848	3,771	24,209	32,981
15 Industry Sector	16,053	20,938	1	73,711	137	35,848	-	6,969	4,183
16 Transport Sector	-	-	-	84,488	47,037	-	3,771	-	26,708
17 Other Sector	-	777	-	43,376	-	-	-	17,241	2,090
18 Agriculture	-	-	-	8,878	-	-	-	2,580	1,946
19 Residential & Commercial	-	777	-	34,498	-	-	-	14,660	144
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	5,896	-	-	-	-	-

Energy Balance Table of Japan in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	699	-	628	-	-	-	-	-	-
2 Import	96,520	-	203,935	51,059	1,325	23,153	2,579	2,096	1,018
3 Export	-	-1,573	-	-16,129	-175	-98	-7,558	-205	-1,295
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	183	-	1,413	3,498	707	-371	119	1,157	662
6 Total Primary Energy Supply	97,403	-1,573	205,976	38,428	1,856	22,684	-4,861	3,048	385
7 Public Electricity	-37,051	-4,533	-4,551	-8,809	-	-15	-	-	-190
8 Autoproducers of Electricity	-5,229	-2,453	-	-11,905	-	-1,092	-	-8	-
9 Gas Processing	-	-804	-	-2,532	-	-57	-	-	-
10 Petroleum Refineries	-	-	-201,384	207,572	45,462	15,350	8,643	22,442	34,585
11 Coal Transformation	-39,473	34,719	-	-633	-	-	-	-	-
12 Loss & Own Use	-113	-2,736	-2	-11,371	-1	-41	-	-72	-69
13 Discrepancy	-107	-755	-39	-4,227	-515	-2,318	128	-1,290	-464
14 Total Final Energy Consumption	15,429	21,864	0	206,522	46,803	34,510	3,910	24,120	34,247
15 Industry Sector	15,429	20,847	0	71,890	158	34,510	-	6,551	4,453
16 Transport Sector	-	-	-	84,571	46,645	-	3,910	-	27,515
17 Other Sector	-	1,017	-	43,725	-	-	-	17,569	2,279
18 Agriculture	-	-	-	9,254	-	-	-	2,570	2,165
19 Residential & Commercial	-	1,017	-	34,471	-	-	-	15,000	114
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	6,337	-	-	-	-	-

Energy Balance Table of Japan in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	2,500	-	8,325	60,048	3,807	2,557	-	-	78,632
3,042	16,048	-	3,158	69,284	-	-	-	-	-	-	-	438,453
-6,514	-7	-	-730	-	-	-	-	-	-	-	-	-16,851
-	-	-	-	-	-	-	-	-	-	-	-	-
-517	-55	-	-34	-2	-	-	-	-	-	-	-	-2,059
-3,989	15,986	-	2,394	71,782	-	8,325	60,048	3,807	2,557	-	-	498,176
-12,636	-562	-	-	-46,870	-	-7,824	-59,958	-2,778	-200	78,077	-	-105,608
-9,330	-54	-913	-362	-	-341	-501	-90	-162	-1,542	14,402	613	-7,513
-	-1,810	-350	-	-22,444	25,921	-	-	-	-	-	-	491
63,813	5,216	9,274	8,286	-	-	-	-	-	-	-	-	5,070
-	-	-	-560	-	-	-	-	-	-	-	-	-5,672
-2,354	-647	-8,152	-1,140	-883	-984	-	-	-	-	-9,077	-	-26,414
581	766	140	-112	-1,035	-340	0	0	0	1,533	24	-63	-1,295
36,085	18,896	-	8,506	549	24,256	-	-	867	2,348	83,427	550	357,235
15,622	8,342	-	2,611	536	9,504	-	-	-	2,311	35,356	-	158,409
5,579	1,392	-	-	-	-	-	-	-	-	1,842	-	86,329
14,884	9,161	-	-	13	14,752	-	-	867	37	46,230	550	106,601
4,352	-	-	-	-	-	-	-	98	-	314	-	9,289
10,533	9,161	-	-	13	14,752	-	-	769	37	45,916	550	97,312
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	5,896	-	-	-	-	-	-	-	-	5,896

Energy Balance Table of Japan in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	2,261	-	7,461	82,072	3,810	2,672	-	-	99,601
1,848	15,712	-	3,328	62,146	-	-	-	-	-	-	-	413,660
-5,932	-114	-	-752	-	-	-	-	-	-	-	-	-17,702
-	-	-	-	-	-	-	-	-	-	-	-	-
371	763	-	91	-11	-	-	-	-	-	-	-	5,083
-3,713	16,361	-	2,668	64,395	-	7,461	82,072	3,810	2,672	-	-	500,643
-8,265	-339	-	-	-43,975	-	-6,996	-81,896	-2,723	-197	76,883	-	-113,847
-9,283	-51	-910	-562	-	-346	-426	-168	-170	-1,541	13,607	613	-8,018
-	-2,126	-348	-	-20,502	24,240	-	-	-	-	-	-	402
58,285	5,263	9,309	8,233	-	-	-	-	-	-	-	-	6,188
-	-	-	-633	-	-	-	-	-	-	-	-	-5,388
-2,010	-577	-7,935	-664	-701	-988	-	-	-	-	-9,345	-	-25,256
278	219	-115	-151	1,276	1	-39	-8	0	1,525	1,578	-64	-859
35,292	18,749	-	8,891	493	22,908	-	-	916	2,459	82,723	549	353,864
15,327	8,336	-	2,554	480	8,768	-	-	-	2,417	35,051	-	154,883
5,105	1,396	-	-	-	-	-	-	-	-	1,846	-	86,417
14,859	9,017	-	-	14	14,139	-	-	916	42	45,826	549	106,227
4,519	-	-	-	-	-	-	-	97	-	326	-	9,677
10,340	9,017	-	-	14	14,139	-	-	820	42	45,499	549	96,550
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	6,337	-	-	-	-	-	-	-	-	6,337

Major Energy Indicators of Japan

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	352,597	364,423	365,072	366,995	375,901	401,166	416,865	432,546	446,104
Indigenous Production	48,709	56,615	64,769	66,548	70,952	67,666	71,035	72,578	76,720
Import	319,945	317,621	311,332	315,207	318,646	340,523	361,349	376,440	384,593
Export	-16,707	-12,485	-12,480	-12,102	-12,708	-11,436	-13,366	-14,834	-16,505
Final Energy Consumption	252,650	256,901	257,526	259,769	266,120	285,715	294,920	305,094	315,963
Industry	131,376	124,125	124,842	121,885	124,437	134,008	138,785	140,776	144,606
Transport	52,317	54,971	55,640	57,499	59,443	62,750	66,865	70,090	73,024
Residential & Commercial	54,206	62,325	62,009	64,414	65,523	71,231	71,524	74,657	78,721
Agriculture	8,175	8,503	8,185	8,549	9,149	9,853	9,739	11,231	11,553
Coal, Coal Products									
Primary Energy Supply	63,565	69,361	73,023	68,658	66,538	74,867	74,388	75,641	77,477
Indigenous Production	12,522	10,648	10,424	9,193	7,402	7,431	6,782	5,890	5,197
Import	51,439	60,448	64,305	62,130	62,099	69,137	68,973	70,045	73,719
Export	-1,465	-1,649	-1,553	-1,597	-2,096	-1,921	-1,655	-1,039	-1,649
Transformation Sector	-23,990	-30,227	-32,633	-32,184	-32,836	-35,466	-34,820	-35,904	-36,835
Power Generation	-10,689	-18,317	-20,221	-20,314	-21,678	-23,292	-23,027	-24,751	-26,146
Final Energy Consumption	37,439	38,306	38,907	36,065	35,413	38,432	39,141	39,154	39,638
Industry	36,446	37,134	37,739	35,105	34,645	37,548	38,329	38,389	38,899
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	992	1,172	1,168	961	768	884	812	765	739
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	219,555	191,390	174,713	168,963	163,929	174,143	183,890	200,317	213,111
Indigenous Production	426	418	547	647	622	609	562	554	771
Import	219,405	187,902	173,672	170,418	162,467	169,936	183,783	200,267	212,455
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-216,743	-186,975	-172,057	-166,228	-161,649	-170,972	-180,556	-199,060	-210,834
Petroleum Refineries	-202,533	-173,312	-160,698	-153,686	-149,478	-154,722	-164,279	-180,435	-191,664
Petroleum Products									
Primary Energy Supply	14,099	28,024	31,312	39,613	48,380	56,545	56,068	48,789	40,204
Import	29,468	39,157	41,114	49,594	59,956	65,454	69,747	64,444	53,859
Export	-15,242	-10,836	-10,927	-10,505	-10,612	-9,514	-11,712	-13,795	-14,856
Transformation Sector	145,365	124,051	118,903	113,024	110,124	112,454	119,115	132,184	144,030
Power Generation	-42,852	-34,232	-27,681	-25,910	-25,332	-27,950	-30,159	-33,288	-31,318
Petroleum Refineries	203,921	171,754	159,102	151,118	147,500	152,796	161,934	178,475	188,898
Final Energy Consumption	158,787	154,808	153,149	157,111	161,690	173,729	178,512	183,505	190,060
Industry	65,073	55,825	55,111	55,192	57,307	61,770	63,842	63,618	65,235
Transport	51,008	53,597	54,251	56,079	57,988	61,215	65,255	68,395	71,283
Residential & Commercial	28,079	30,141	29,000	30,126	29,940	33,280	31,942	32,223	34,236
Agriculture	8,054	8,268	7,935	8,292	8,886	9,590	9,467	10,930	11,247
Natural Gas, Town Gas									
Primary Energy Supply	21,748	31,995	34,204	34,924	36,050	37,845	40,612	43,479	46,443
Indigenous Production	2,115	1,881	1,962	1,857	1,912	1,849	1,772	1,803	1,883
Import	19,633	30,115	32,242	33,065	34,124	35,996	38,846	41,684	44,561
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-12,799	-20,996	-23,264	-23,357	-23,884	-25,642	-26,008	-29,535	-31,548
Power Generation	-15,892	-23,985	-25,981	-26,222	-26,556	-28,532	-29,219	-32,457	-34,678
Final Energy Consumption	9,228	11,117	11,274	11,809	11,971	12,971	13,381	14,055	15,274
Industry	2,180	2,688	2,872	2,851	2,983	3,225	3,519	3,977	4,627
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	7,047	8,429	8,402	8,958	8,988	9,746	9,862	10,078	10,648
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	48,677	55,004	56,805	57,410	59,794	63,522	66,968	71,693	74,663
Thermal	33,746	38,109	36,298	36,321	36,668	41,103	42,713	47,028	48,076
Hydro	7,828	5,991	7,435	6,767	6,836	7,366	8,197	7,827	8,574
Nuclear	7,103	10,903	13,072	14,321	16,290	15,053	16,058	16,838	18,012
Final Energy Consumption	44,024	48,926	50,353	51,003	53,135	56,563	59,742	64,052	66,618
Industry	25,216	25,863	26,475	26,215	26,894	28,776	30,318	31,971	33,038
Transport	1,309	1,374	1,389	1,420	1,455	1,535	1,610	1,696	1,741
Residential & Commercial	17,395	21,479	22,266	23,137	24,551	26,016	27,567	30,115	31,576
Agriculture	104	211	223	230	235	236	247	270	263

Major Energy Indicators of Japan (Continued)

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1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
452,789	456,866	476,302	490,786	503,422	511,340	498,873	511,108	509,254	507,668	500,643	498,176
76,938	85,609	85,889	94,829	97,863	104,463	105,509	101,781	101,967	101,874	99,601	78,632
391,110	391,322	413,678	417,131	427,144	431,129	410,437	419,381	424,865	423,930	413,660	438,453
-18,686	-20,020	-21,805	-23,158	-20,412	-22,328	-21,023	-12,702	-18,018	-17,416	-17,702	-16,851
318,537	319,447	329,495	339,893	347,315	351,193	347,393	359,863	359,974	352,496	353,864	357,235
141,094	142,093	144,884	150,362	151,661	155,230	150,117	155,543	160,749	152,231	154,883	158,409
75,534	75,848	79,304	81,288	84,314	85,927	86,474	93,957	86,933	86,596	86,417	86,329
82,586	82,367	86,094	89,200	91,917	91,114	92,510	93,232	95,458	96,880	96,550	97,312
11,233	11,132	11,235	11,292	11,590	11,157	10,906	10,127	9,988	10,184	9,677	9,289
75,467	76,636	78,860	82,827	84,973	86,849	84,977	87,759	90,989	94,764	95,829	100,844
4,392	4,146	4,012	3,593	3,526	2,922	2,118	2,150	1,674	1,484	699	683
72,915	74,335	76,921	81,045	83,197	85,072	84,430	86,956	90,986	94,810	96,520	101,486
-1,882	-1,969	-2,081	-1,995	-1,637	-1,806	-1,661	-1,534	-1,488	-1,266	-1,573	-1,369
-38,069	-39,005	-41,468	-44,123	-47,187	-48,852	-49,523	-51,620	-52,445	-56,483	-57,674	-63,572
-27,941	-28,802	-31,580	-33,953	-36,373	-37,655	-38,841	-40,801	-44,901	-47,685	-49,266	-54,782
37,423	37,200	37,102	37,618	37,748	38,664	36,670	36,607	39,318	35,727	37,293	37,768
36,726	36,494	36,196	36,578	36,667	37,681	35,664	35,681	38,414	34,763	36,276	36,991
-	-	-	-	-	-	-	-	-	-	-	-
697	706	906	1,040	1,081	983	1,006	926	904	964	1,017	777
-	-	-	-	-	-	-	-	-	-	-	-
223,772	224,060	237,445	234,712	232,179	237,160	226,231	222,525	218,284	213,495	205,976	215,018
881	800	764	758	736	741	696	643	642	660	628	712
219,939	223,398	237,404	234,050	230,932	238,053	223,210	219,394	216,923	213,965	203,935	215,047
-	-	-	-	-	-	-	-	-	-	-	-
-221,385	-220,853	-234,875	-231,046	-231,164	-235,115	-225,358	-222,041	-218,543	-212,680	-205,937	-214,562
-203,252	-206,831	-215,914	-215,641	-216,388	-223,015	-217,086	-213,816	-210,772	-207,802	-201,384	-208,571
36,216	29,610	29,549	32,742	38,374	31,121	27,309	41,538	37,546	34,614	38,428	35,795
52,587	47,693	50,019	52,010	58,717	52,593	45,136	52,731	54,172	50,093	51,059	52,636
-16,805	-18,051	-19,725	-21,163	-18,775	-20,521	-19,362	-11,168	-16,529	-16,150	-16,129	-15,482
153,176	160,337	165,225	167,679	168,933	177,736	172,434	176,338	175,291	176,251	172,321	173,131
-33,174	-28,988	-32,888	-29,361	-28,839	-26,559	-25,812	-25,656	-24,516	-21,667	-20,715	-25,173
200,296	203,770	212,765	211,914	212,606	219,453	213,565	217,590	215,580	213,006	207,572	213,641
193,344	193,200	198,701	205,895	209,463	209,971	207,140	217,981	211,417	209,552	206,522	207,470
64,113	65,308	67,345	71,062	70,974	71,844	69,687	74,609	74,943	73,049	71,890	73,711
73,756	74,062	77,448	79,465	82,462	84,064	84,598	92,080	85,058	84,713	84,571	84,488
36,480	35,007	35,077	36,709	37,029	35,569	34,984	34,584	35,007	35,430	34,471	34,498
10,905	10,815	10,853	10,908	11,166	10,730	10,485	9,704	9,564	9,754	9,254	8,878
47,574	47,840	51,339	51,975	56,262	57,419	59,690	62,309	64,940	67,281	64,395	71,782
1,904	1,943	2,005	1,948	1,967	2,010	2,029	2,011	2,157	2,217	2,261	2,500
45,670	45,897	49,334	50,027	54,299	55,410	57,661	60,301	62,784	65,063	62,146	69,284
-	-	-	-	-	-	-	-	-	-	-	-
-31,854	-31,223	-33,443	-34,006	-35,699	-37,299	-38,517	-41,159	-42,882	-43,949	-42,271	-45,602
-35,055	-34,603	-36,731	-37,355	-39,184	-40,571	-41,599	-44,326	-45,970	-46,488	-44,321	-47,211
16,071	17,076	17,638	18,479	19,618	20,041	20,445	21,220	22,242	20,752	23,401	24,805
5,013	5,572	6,034	6,471	6,903	7,444	7,587	8,026	8,618	6,723	9,248	10,040
-	-	-	-	-	-	-	-	-	-	-	-
11,059	11,504	11,604	12,008	12,715	12,597	12,859	13,194	13,624	14,030	14,153	14,765
-	-	-	-	-	-	-	-	-	-	-	-
75,685	76,137	80,803	82,828	85,268	87,356	88,444	89,463	92,239	90,283	90,490	92,479
49,617	46,211	52,340	50,947	52,637	52,063	51,731	54,543	57,262	55,280	55,946	64,338
7,314	8,542	6,140	7,124	7,037	7,624	8,567	7,600	7,479	7,388	7,461	8,325
18,754	21,384	22,322	24,757	25,594	27,669	28,147	27,320	27,498	27,614	27,084	19,816
67,492	67,918	72,145	73,825	76,374	78,297	79,220	80,196	82,912	82,550	82,723	83,427
32,583	32,197	32,973	33,823	34,677	35,740	34,896	34,951	36,289	35,345	35,051	35,356
1,778	1,786	1,856	1,823	1,853	1,863	1,876	1,877	1,875	1,883	1,846	1,842
32,849	33,664	36,986	37,876	39,521	40,375	42,131	43,045	44,420	44,987	45,499	45,916
282	272	331	304	323	319	317	323	328	335	326	314

Major Economic Indicators of Japan

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	116.78	120.02	120.75	121.49	122.09	122.61	123.12	123.54
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	3,329.24	3,690.00	3,877.54	3,992.27	4,143.77	4,424.09	4,658.17	4,900.46
Real Term (Billions of 1995 Price and 1995 PPP)	1,793.02	1,987.32	2,088.32	2,150.11	2,231.71	2,382.67	2,508.74	2,639.23
Nominal (Billions of Current USD)	1,062.75	1,267.00	1,356.36	2,009.70	2,437.33	2,959.39	2,961.16	3,039.69
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	28,508	30,745	32,111	32,860	33,940	36,082	37,836	39,668
Real Term (1995 Price and 1995 PPP)	15,354	16,558	17,294	17,698	18,279	19,432	20,377	21,364
Nominal (Current USD)	9,100	10,557	11,232	16,542	19,963	24,136	24,052	24,606
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	240,969	300,941	323,541	338,674	352,530	379,250	408,535	440,125
Household Final Consumption Expenditure, etc.	132,032	166,831	176,575	183,872	192,547	203,443	217,987	234,272
General Government Final Consumption Expenditure	32,649	41,745	43,643	45,738	47,924	50,139	53,149	56,890
Gross Fixed Capital Formation	77,062	83,334	90,168	94,223	101,046	114,749	128,168	142,239
Stock Change	1,446	995	2,117	1,560	453	2,681	2,993	2,551
Exports of Goods and Services	32,817	44,902	46,177	38,058	36,180	37,431	42,273	45,863
Imports of Goods and Services	35,036	36,866	35,137	24,777	25,619	29,191	36,036	41,690
Real GDP & its Components (Billions of 1995 JPY) *1								
Gross Domestic Product	300,745	333,334	350,276	360,640	374,326	399,648	420,793	442,681
Household Final Consumption Expenditure, etc.	170,380	189,949	197,499	204,082	212,495	222,831	233,577	244,283
General Government Final Consumption Expenditure	43,259	51,219	51,611	53,498	55,467	57,487	59,137	61,028
Gross Fixed Capital Formation	82,013	82,736	88,983	93,718	100,657	113,705	123,369	133,135
Stock Change	2,333	1,322	3,848	2,810	890	5,583	6,258	5,040
Exports of Goods and Services	22,803	29,649	31,418	29,476	29,250	30,802	33,682	35,940
Imports of Goods and Services	17,741	19,410	19,628	19,938	22,641	26,835	31,372	33,824
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.0	3.0	2.8	2.7	2.7	2.4	2.4	2.3
Industry	35.9	34.1	34.9	34.2	34.5	35.1	35.4	36.3
Services, etc.	61.0	62.9	62.2	63.0	62.8	62.4	62.2	61.4
Industrial Production Index (2000=100) *2	66.4	75.9	78.7	78.6	81.3	88.9	94.0	98.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	130.441	169.700	177.164	210.757	231.286	264.856	273.932	287.581
Imports, c.i.f.	141.296	136.176	130.488	127.553	151.033	187.378	209.715	235.368
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.130	44.260	55.292	91.188	91.583	92.242	80.122	69.283
Current Account	-10.750	35.000	51.129	85.877	84.351	79.249	63.215	44.078
Overall Balance	5.026	2.120	-0.500	15.130	38.050	17.560	-13.050	-9.090
Foreign Exchange Rate (JPY/USD) *1	226.7408	237.5225	238.5358	168.5198	144.6375	128.1517	137.9644	144.7925
Purchasing Power Parity (JPY/International Dollar) *1	227.4110	205.1575	204.0013	202.8267	198.3649	193.2899	190.6808	187.9283
Price Indices								
GDP Deflator (2000=100) *3	80.1	90.3	92.4	93.9	94.2	94.9	97.1	99.4
Wholesale Price Index (2000=100) *2	113.4	114.9	114.0	108.6	105.2	104.7	106.7	108.3
Consumer Price Index (2000=100) *2	75.2	84.4	86.1	86.7	86.8	87.4	89.3	92.1
Growth Rate (%) *3								
Real GDP	2.82	3.12	5.08	2.96	3.79	6.76	5.29	5.20
Population	0.79	0.64	0.61	0.61	0.49	0.43	0.41	0.34
Price								
Wholesale Price Index	15.0	0.1	-0.8	-4.7	-3.1	-0.6	1.9	1.5
Consumer Price Index	7.8	2.3	2.0	0.6	0.1	0.7	2.3	3.1

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"
: JPY shows Yen, USD shows United States Dollar
: PPP shows Purchasing Power Parity

Major Economic Indicators of Japan (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
123.92	124.23	124.54	124.96	125.44	125.76	126.09	126.41	126.65	126.87	127.14	127.40	127.57
5,064.66	5,113.89	5,126.55	5,182.87	5,283.06	5,463.60	5,564.90	5,502.11	5,505.25	5,661.87	5,686.43	5,666.34	5,817.00
2,727.66	2,754.18	2,761.00	2,791.33	2,845.29	2,942.52	2,997.08	2,963.26	2,964.95	3,049.30	3,062.53	3,051.71	752.74
3,475.96	3,793.82	4,354.71	4,794.21	5,283.06	4,688.26	4,305.59	3,931.05	4,452.98	4,746.07	4,162.36	3,972.48	4,300.86
40,870	41,165	41,165	41,476	42,117	43,444	44,134	43,526	43,468	44,627	44,726	44,477	45,597
22,011	22,170	22,170	22,338	22,683	23,398	23,769	23,442	23,411	24,035	24,088	23,954	24,557
28,050	30,539	34,967	38,366	42,117	37,279	34,147	31,098	35,160	37,409	32,738	31,181	33,713
468,234	480,492	484,234	490,005	496,922	509,984	520,937	514,595	507,224	511,462	505,847	498,102	498,614
247,563	258,052	264,149	272,646	276,844	283,433	288,788	288,210	286,605	285,750	285,966	284,623	283,782
60,872	64,249	67,014	69,510	72,789	75,491	77,094	78,582	80,843	84,019	86,419	87,973	87,321
149,057	146,782	142,008	138,676	138,099	145,022	146,161	138,331	133,596	134,739	130,311	120,430	119,112
3,195	1,011	298	-710	2,233	3,499	3,137	29	-1,711	-361	-22	-1,336	413
46,668	47,288	44,109	44,270	45,230	49,561	56,074	55,051	51,144	55,256	52,567	55,829	58,869
39,121	36,891	33,344	34,387	38,272	47,022	50,316	45,607	43,251	47,940	49,393	49,417	50,883
457,513	461,960	463,104	468,192	477,242	493,552	502,703	497,031	497,314	511,462	513,681	511,866	525,476
251,304	257,889	261,423	268,461	273,386	280,114	282,708	282,573	283,032	285,750	290,546	293,082	296,273
63,513	65,120	67,085	69,246	72,198	74,274	75,029	76,545	80,092	84,019	86,524	88,579	89,621
136,166	132,911	129,178	127,185	128,147	136,392	137,669	132,286	131,143	134,739	133,316	125,190	129,137
6,370	2,169	520	-1,316	5,028	7,869	7,252	632	-3,482	-361	22	-2,889	1,088
37,423	38,889	38,858	40,239	41,870	44,566	49,648	48,444	49,149	55,256	51,864	56,034	61,663
33,456	33,235	32,763	35,363	39,785	45,009	45,469	42,468	43,881	47,940	47,986	48,948	51,315
1.9	2.0	1.8	1.8	1.7	1.7	1.5	1.5	1.4	1.4	1.3	1.4	N.A.
36.2	35.2	34.2	33.0	32.6	32.5	32.6	31.5	31.7	32.2	31.3	30.7	N.A.
61.9	62.9	64.1	65.3	65.8	65.9	66.0	67.1	66.9	66.4	67.5	68.0	N.A.
99.8	94.1	90.8	92.0	95.5	97.7	101.2	94.5	94.8	100.0	93.7	92.6	95.4
314.786	339.885	362.244	397.005	443.116	410.901	420.957	387.927	419.367	479.249	403.496	416.726	471.817
236.999	233.246	241.624	275.235	335.882	349.152	338.754	280.484	311.262	379.511	349.089	337.194	382.930
96.084	124.764	139.417	144.191	131.787	83.585	101.600	122.389	123.325	116.716	70.214	93.829	106.395
68.204	112.574	131.637	130.255	111.044	65.792	96.814	118.749	114.604	119.660	87.798	112.447	136.215
-8.389	0.620	27.473	25.265	58.611	35.141	6.567	-6.164	76.256	48.955	40.487	46.134	187.153
134.7067	126.6513	111.1978	102.2078	94.0596	108.7791	120.9909	130.9053	113.9068	107.7655	121.5289	125.3880	115.9335
186.9630	186.0554	182.8937	179.1361	174.6474	170.5850	168.6400	166.7211	161.7562	155.2077	149.8605	145.8436	139.7536
102.3	104.0	104.6	104.7	104.1	103.3	103.6	103.5	102.0	100.0	98.5	97.3	94.9
109.4	108.4	106.7	104.9	104.1	102.4	103.0	101.5	100.0	100.0	97.7	95.7	95.0
95.1	96.7	97.9	98.6	98.5	98.6	100.4	101.0	100.7	100.0	99.3	98.4	98.1
3.35	0.97	0.25	1.10	1.93	3.42	1.85	-1.13	0.06	2.84	0.43	-0.35	2.66
0.31	0.25	0.25	0.34	0.38	0.26	0.26	0.25	0.19	0.17	0.21	0.20	0.14
1.0	-0.9	-1.5	-1.7	-0.8	-1.6	0.7	-1.5	-1.5	0.1	-2.3	-2.1	-0.8
3.2	1.7	1.3	0.7	-0.1	0.1	1.7	0.7	-0.3	-0.7	-0.7	-0.9	-0.3

Original Table (Energy Demand and Supply) of Japan in 2003

Year:2003

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	1,338.00	10 ³ t	0.5106	10 ⁷ kcal/t	683.22	10 ¹⁰ kcal
HARD COAL	1,338.00	10 ³ t	0.5106	10 ⁷ kcal/t	683.22	10 ¹⁰ kcal
STEAM COAL	1,338.00	10 ³ t	0.5106	10 ⁷ kcal/t	683.22	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	821.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	711.75	10 ¹⁰ kcal
CRUDE OIL	821.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	711.75	10 ¹⁰ kcal
NATURAL GAS AND LNG	2,843.51	10 ⁶ cubic m	0.8794	10 ⁴ kcal/cubic m	2,500.44	10 ¹⁰ kcal
NATURAL GAS	2,843.51	10 ⁶ cubic m	0.8794	10 ⁴ kcal/cubic m	2,500.44	10 ¹⁰ kcal
HYDRO POWER	96,801.96	GWh	0.0860	10 ¹⁰ kcal/GWh	8,324.97	10 ¹⁰ kcal
NUCLEAR POWER	230,423.20	GWh	0.2606	10 ¹⁰ kcal/GWh	60,048.29	10 ¹⁰ kcal
GEO THERMAL POWER	3,418.99	GWh	0.8600	10 ¹⁰ kcal/GWh	2,940.33	10 ¹⁰ kcal
OTHER POWER(WASTE,ETC)	20,259.93	GWh	0.0860	10 ¹⁰ kcal/GWh	1,742.35	10 ¹⁰ kcal
GEO THERMAL HEAT	246.24	10 ³ kL	0.9250	10 ⁷ kcal/kL	227.77	10 ¹⁰ kcal
SOLAR	690.83	10 ³ kL	0.9250	10 ⁷ kcal/kL	639.02	10 ¹⁰ kcal
OTHERS	880.35	10 ³ kL	0.9250	10 ⁷ kcal/kL	814.32	10 ¹⁰ kcal
TOTAL PRODUCTION					78,632.45	10 ¹⁰ kcal
OPENING STOCKS						
TOTAL OPENING STOCKS						10 ¹⁰ kcal
CLOSING STOCKS						
TOTAL CLOSING STOCKS						10 ¹⁰ kcal
STOCK CHANGE						
COAL	66.34	10 ³ t	0.6500	10 ⁷ kcal/t	43.12	10 ¹⁰ kcal
HARD COAL	66.34	10 ³ t	0.6500	10 ⁷ kcal/t	43.12	10 ¹⁰ kcal
STEAM COAL	66.34	10 ³ t	0.6500	10 ⁷ kcal/t	43.12	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	-855.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	-741.22	10 ¹⁰ kcal
CRUDE OIL	-855.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	-741.22	10 ¹⁰ kcal
LPG	-48.00	10 ³ t	1.1393	10 ⁷ kcal/t	-54.68	10 ¹⁰ kcal
NAPHTHA	495.00	10 ³ kL	0.7600	10 ⁷ kcal/kL	376.20	10 ¹⁰ kcal
MOGAS	-68.00	10 ³ kL	0.7980	10 ⁷ kcal/kL	-54.26	10 ¹⁰ kcal
JET FUEL	-3.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	-2.50	10 ¹⁰ kcal
KEROSENE	-996.00	10 ³ kL	0.8455	10 ⁷ kcal/kL	-842.12	10 ¹⁰ kcal
DIESEL OIL	-264.00	10 ³ kL	0.8740	10 ⁷ kcal/kL	-230.74	10 ¹⁰ kcal
FUEL OIL	-562.44	10 ³ kL	0.9190	10 ⁷ kcal/kL	-516.91	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	-38.55	10 ³ kL	0.8788	10 ⁷ kcal/kL	-33.88	10 ¹⁰ kcal
NATURAL GAS AND LNG	-2.74	10 ⁶ cubic m	0.8794	10 ⁴ kcal/cubic m	-2.41	10 ¹⁰ kcal
NATURAL GAS	-2.74	10 ⁶ cubic m	0.8794	10 ⁴ kcal/cubic m	-2.41	10 ¹⁰ kcal
TOTAL STOCK CHANGE					-2,059.40	10 ¹⁰ kcal
IMPORTS						
COAL	163,003.15	10 ³ t	0.6226	10 ⁷ kcal/t	101,486.32	10 ¹⁰ kcal
HARD COAL	159,118.86	10 ³ t	0.6227	10 ⁷ kcal/t	99,088.59	10 ¹⁰ kcal
STEAM COAL	101,014.10	10 ³ t	0.6037	10 ⁷ kcal/t	60,979.43	10 ¹⁰ kcal
COKING COAL	58,104.76	10 ³ t	0.6559	10 ⁷ kcal/t	38,109.15	10 ¹⁰ kcal
ANTHRACITE	3,884.29	10 ³ t	0.6173	10 ⁷ kcal/t	2,397.73	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	248,496.00	10 ³ kL	0.8654	10 ⁷ kcal/kL	215,047.18	10 ¹⁰ kcal
CRUDE OIL	242,706.87	10 ³ kL	0.8669	10 ⁷ kcal/kL	210,409.43	10 ¹⁰ kcal
NGL/CONDENSATE	5,789.13	10 ³ kL	0.8011	10 ⁷ kcal/kL	4,637.75	10 ¹⁰ kcal
LPG	14,086.00	10 ³ t	1.1393	10 ⁷ kcal/t	16,047.64	10 ¹⁰ kcal
NAPHTHA	29,789.00	10 ³ kL	0.7739	10 ⁷ kcal/kL	23,053.14	10 ¹⁰ kcal
MOGAS	1,701.00	10 ³ kL	0.7852	10 ⁷ kcal/kL	1,335.67	10 ¹⁰ kcal
JET FUEL	3,307.23	10 ³ kL	0.8329	10 ⁷ kcal/kL	2,754.55	10 ¹⁰ kcal
KEROSENE	3,110.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	2,590.28	10 ¹⁰ kcal
DIESEL OIL	755.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	654.53	10 ¹⁰ kcal
FUEL OIL	3,272.69	10 ³ kL	0.9296	10 ⁷ kcal/kL	3,042.15	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	3,593.27	10 ³ kL	0.8788	10 ⁷ kcal/kL	3,157.59	10 ¹⁰ kcal
NATURAL GAS AND LNG	59,129.00	10 ³ t	1.1718	10 ⁷ kcal/t	69,284.44	10 ¹⁰ kcal
LNG	59,129.00	10 ³ t	1.1718	10 ⁷ kcal/t	69,284.44	10 ¹⁰ kcal
TOTAL IMPORTS					438,453.48	10 ¹⁰ kcal
EXPORTS						
COKE	2,004.00	10 ³ t	0.6831	10 ⁷ kcal/t	1,368.94	10 ¹⁰ kcal
LPG	6.00	10 ³ t	1.1393	10 ⁷ kcal/t	6.84	10 ¹⁰ kcal
NAPHTHA	84.00	10 ³ kL	0.7739	10 ⁷ kcal/kL	65.01	10 ¹⁰ kcal
MOGAS	288.00	10 ³ kL	0.7852	10 ⁷ kcal/kL	226.15	10 ¹⁰ kcal
JET FUEL	8,335.23	10 ³ kL	0.8329	10 ⁷ kcal/kL	6,942.30	10 ¹⁰ kcal
KEROSENE	202.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	168.24	10 ¹⁰ kcal
DIESEL OIL	957.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	829.65	10 ¹⁰ kcal
FUEL OIL	6,893.49	10 ³ kL	0.9449	10 ⁷ kcal/kL	6,513.75	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	830.46	10 ³ kL	0.8788	10 ⁷ kcal/kL	729.76	10 ¹⁰ kcal
TOTAL EXPORTS					16,850.64	10 ¹⁰ kcal
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					498,175.89	10 ¹⁰ kcal
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	60,915.18	10 ³ t	0.6559	10 ⁷ kcal/t	39,952.42	10 ¹⁰ kcal
HARD COAL	60,915.18	10 ³ t	0.6559	10 ⁷ kcal/t	39,952.42	10 ¹⁰ kcal
COKING COAL	60,915.18	10 ³ t	0.6559	10 ⁷ kcal/t	39,952.42	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	693.01	10 ³ t	0.8079	10 ⁷ kcal/t	559.90	10 ¹⁰ kcal
REFINING						
CRUDE OIL AND NGL/CONDENSATE	241,020.31	10 ³ kL	0.8654	10 ⁷ kcal/kL	208,571.15	10 ¹⁰ kcal
CRUDE OIL	235,304.98	10 ³ kL	0.8669	10 ⁷ kcal/kL	203,992.51	10 ¹⁰ kcal
NGL/CONDENSATE	5,715.34	10 ³ kL	0.8011	10 ⁷ kcal/kL	4,578.64	10 ¹⁰ kcal

Original Table (Energy Demand and Supply) of Japan in 2003 (Continued)

Year:2003

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
GAS PROCESSING						
COKE	17,579.58	10 ³ t	0.6831	10 ⁷ kcal/t	12,008.66	10 ¹⁰ kcal
COKE OVEN GAS	334.64	10 ⁶ cubic m	0.4537	10 ⁴ kcal/cubic m	151.81	10 ¹⁰ kcal
REFINERY GAS	368.37	10 ¹⁰ kcal	0.9500	kcal/kcal	349.95	10 ¹⁰ kcal
LPG	1,588.84	10 ³ t	1.1393	10 ⁷ kcal/t	1,810.11	10 ¹⁰ kcal
NAPHTHA	54.22	10 ³ kL	0.7739	10 ⁷ kcal/kL	41.96	10 ¹⁰ kcal
NATURAL GAS AND LNG	19,156.84	10 ³ kL	1.1716	10 ⁷ kcal/kL	22,443.99	10 ¹⁰ kcal
NATURAL GAS	1,741.97	10 ³ t	1.1700	10 ⁷ kcal/t	2,038.11	10 ¹⁰ kcal
LNG	17,414.87	10 ³ t	1.1718	10 ⁷ kcal/t	20,405.88	10 ¹⁰ kcal
POWER GENERATION (NATIONAL,PUBLIC UTILITIE						
COAL	72,759.24	10 ³ t	0.5807	10 ⁷ kcal/t	42,253.84	10 ¹⁰ kcal
COKE OVEN GAS	3,082.09	10 ⁶ cubic m	0.4537	10 ⁴ kcal/cubic m	1,398.19	10 ¹⁰ kcal
BLAST FURNACE GAS	39,611.66	10 ⁶ cubic m	0.0771	10 ⁴ kcal/cubic m	3,055.67	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	6,706.93	10 ³ kL	0.8931	10 ⁷ kcal/kL	5,990.22	10 ¹⁰ kcal
CRUDE OIL	6,633.15	10 ³ kL	0.8942	10 ⁷ kcal/kL	5,931.11	10 ¹⁰ kcal
NGL/CONDENSATE	73.79	10 ³ kL	0.8011	10 ⁷ kcal/kL	59.11	10 ¹⁰ kcal
LPG	493.20	10 ³ t	1.1393	10 ⁷ kcal/t	561.88	10 ¹⁰ kcal
NAPHTHA	2.39	10 ³ kL	0.7739	10 ⁷ kcal/kL	1.85	10 ¹⁰ kcal
DIESEL OIL	180.87	10 ³ kL	0.8669	10 ⁷ kcal/kL	156.80	10 ¹⁰ kcal
FUEL OIL	13,514.43	10 ³ kL	0.9350	10 ⁷ kcal/kL	12,636.15	10 ¹⁰ kcal
NATURAL GAS AND LNG	40,001.05	10 ³ t	1.1717	10 ⁷ kcal/t	46,870.43	10 ¹⁰ kcal
NATURAL GAS	468.18	10 ³ t	1.1700	10 ⁷ kcal/t	547.78	10 ¹⁰ kcal
LNG	39,532.87	10 ³ t	1.1718	10 ⁷ kcal/t	46,322.66	10 ¹⁰ kcal
HYDRO POWER	90,973.38	GWh	0.0860	10 ¹⁰ kcal/GWh	7,823.71	10 ¹⁰ kcal
NUCLEAR POWER	230,077.67	GWh	0.2606	10 ¹⁰ kcal/GWh	59,958.24	10 ¹⁰ kcal
GEOTHERMAL POWER	3,230.19	GWh	0.8600	10 ¹⁰ kcal/GWh	2,777.97	10 ¹⁰ kcal
OTHER POWER(WASTE,ETC)	2,326.32	GWh	0.0860	10 ¹⁰ kcal/GWh	200.06	10 ¹⁰ kcal
POWER GENERATION (PRIVATE, AUTO PRODUCERS						
COAL	9,725.15	10 ³ t	0.5760	10 ⁷ kcal/t	5,601.54	10 ¹⁰ kcal
COKE OVEN GAS	1,254.20	10 ⁶ cubic m	0.4314	10 ⁴ kcal/cubic m	541.02	10 ¹⁰ kcal
BLAST FURNACE GAS	24,758.76	10 ⁶ cubic m	0.0780	10 ⁴ kcal/cubic m	1,931.36	10 ¹⁰ kcal
REFINERY GAS	960.64	10 ¹⁰ kcal	0.9500	kcal/kcal	912.61	10 ¹⁰ kcal
LPG	46.99	10 ³ t	1.1400	10 ⁷ kcal/t	53.57	10 ¹⁰ kcal
NAPHTHA	1,514.14	10 ³ kL	0.7598	10 ⁷ kcal/kL	1,150.46	10 ¹⁰ kcal
KEROSENE	9.34	10 ³ kL	0.8329	10 ⁷ kcal/kL	7.78	10 ¹⁰ kcal
FUEL OIL	10,043.60	10 ³ kL	0.9289	10 ⁷ kcal/kL	9,329.60	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	448.80	10 ³ t	0.8075	10 ⁷ kcal/t	362.41	10 ¹⁰ kcal
TOWN GAS	378.57	10 ¹⁰ kcal	0.9000	kcal/kcal	340.72	10 ¹⁰ kcal
HYDRO POWER	5,828.57	GWh	0.0860	10 ¹⁰ kcal/GWh	501.26	10 ¹⁰ kcal
NUCLEAR POWER	345.52	GWh	0.2606	10 ¹⁰ kcal/GWh	90.04	10 ¹⁰ kcal
GEOTHERMAL POWER	188.79	GWh	0.8600	10 ¹⁰ kcal/GWh	162.36	10 ¹⁰ kcal
OTHER POWER(WASTE,ETC)	17,933.61	GWh	0.0860	10 ¹⁰ kcal/GWh	1,542.29	10 ¹⁰ kcal
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	40,108.16	10 ³ t	0.6831	10 ⁷ kcal/t	27,398.01	10 ¹⁰ kcal
COKE OVEN GAS	16,355.80	10 ⁶ cubic m	0.4537	10 ⁴ kcal/cubic m	7,419.81	10 ¹⁰ kcal
BRIQUETTES	40.93	10 ³ t	0.5424	10 ⁷ kcal/t	22.20	10 ¹⁰ kcal
GAS RECOVERING						
BLAST FURNACE GAS	142,029.87	10 ⁶ cubic m	0.0801	10 ⁴ kcal/cubic m	11,376.63	10 ¹⁰ kcal
REFINING						
REFINERY GAS	9,762.21	10 ¹⁰ kcal	0.9500	kcal/kcal	9,274.10	10 ¹⁰ kcal
LPG	4,578.00	10 ³ t	1.1393	10 ⁷ kcal/t	5,215.54	10 ¹⁰ kcal
NAPHTHA	20,986.09	10 ³ kL	0.7739	10 ⁷ kcal/kL	16,240.73	10 ¹⁰ kcal
MOGAS	58,457.00	10 ³ kL	0.7852	10 ⁷ kcal/kL	45,902.08	10 ¹⁰ kcal
JET FUEL	9,539.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	7,944.90	10 ¹⁰ kcal
KEROSENE	28,294.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	23,565.69	10 ¹⁰ kcal
DIESEL OIL	38,525.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	33,398.41	10 ¹⁰ kcal
FUEL OIL	70,065.32	10 ³ kL	0.9108	10 ⁷ kcal/kL	63,813.05	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	9,429.80	10 ³ kL	0.8788	10 ⁷ kcal/kL	8,286.44	10 ¹⁰ kcal
GAS PROCESSING						
TOWN GAS	28,800.78	10 ¹⁰ kcal	0.9000	kcal/kcal	25,920.70	10 ¹⁰ kcal
POWER GENERATION (NATIONAL,PUBLIC UTILITIE						
THERMAL	581,269.13	GWh	0.0860	10 ¹⁰ kcal/GWh	49,989.15	10 ¹⁰ kcal
HYDRO POWER	90,973.38	GWh	0.0860	10 ¹⁰ kcal/GWh	7,823.71	10 ¹⁰ kcal
NUCLEAR POWER	230,077.67	GWh	0.0860	10 ¹⁰ kcal/GWh	19,786.68	10 ¹⁰ kcal
GEOTHERMAL POWER	3,230.19	GWh	0.0860	10 ¹⁰ kcal/GWh	277.80	10 ¹⁰ kcal
OTHER POWER(WASTE,ETC)	2,326.32	GWh	0.0860	10 ¹⁰ kcal/GWh	200.06	10 ¹⁰ kcal
POWER GENERATION (PRIVATE, AUTO PRODUCERS						
THERMAL	143,165.15	GWh	0.0860	10 ¹⁰ kcal/GWh	12,312.20	10 ¹⁰ kcal
HYDRO POWER	5,828.57	GWh	0.0860	10 ¹⁰ kcal/GWh	501.26	10 ¹⁰ kcal
NUCLEAR POWER	345.52	GWh	0.0860	10 ¹⁰ kcal/GWh	29.71	10 ¹⁰ kcal
GEOTHERMAL POWER	188.79	GWh	0.0860	10 ¹⁰ kcal/GWh	16.24	10 ¹⁰ kcal
OTHER POWER(WASTE,ETC)	17,933.61	GWh	0.0860	10 ¹⁰ kcal/GWh	1,542.29	10 ¹⁰ kcal
HEAT	612.67	10 ¹⁰ kcal	1.0000	kcal/kcal	612.67	10 ¹⁰ kcal
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COAL	176.54	10 ³ t	0.5000	10 ⁷ kcal/t	88.27	10 ¹⁰ kcal
COKE OVEN GAS	3,194.21	10 ⁶ cubic m	0.4537	10 ⁴ kcal/cubic m	1,449.05	10 ¹⁰ kcal
BLAST FURNACE GAS	17,986.84	10 ⁶ cubic m	0.0754	10 ⁴ kcal/cubic m	1,356.78	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	0.88	10 ³ kL	0.8934	10 ⁷ kcal/kL	0.78	10 ¹⁰ kcal
CRUDE OIL	0.87	10 ³ kL	0.8942	10 ⁷ kcal/kL	0.78	10 ¹⁰ kcal
NGL/CONDENSATE	0.01	10 ³ kL	0.8011	10 ⁷ kcal/kL	0.01	10 ¹⁰ kcal

Original Table (Energy Demand and Supply) of Japan in 2003 (Continued)

Year:2003

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
REFINERY GAS	8,580.83	10 ¹⁰ kcal	0.9500	kcal/kcal	8,151.79	10 ¹⁰ kcal
LPG	567.69	10 ³ t	1.1393	10 ⁷ kcal/t	646.75	10 ¹⁰ kcal
NAPHTHA	61.99	10 ³ kL	0.7739	10 ⁷ kcal/kL	47.97	10 ¹⁰ kcal
MOGAS	2.18	10 ³ kL	0.7852	10 ⁷ kcal/kL	1.71	10 ¹⁰ kcal
KEROSENE	201.05	10 ³ kL	0.8329	10 ⁷ kcal/kL	167.45	10 ¹⁰ kcal
DIESEL OIL	75.51	10 ³ kL	0.8669	10 ⁷ kcal/kL	65.46	10 ¹⁰ kcal
FUEL OIL	2,534.83	10 ³ kL	0.9287	10 ⁷ kcal/kL	2,354.15	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	1,297.05	10 ³ kL	0.8788	10 ⁷ kcal/kL	1,139.78	10 ¹⁰ kcal
NATURAL GAS AND LNG					883.43	10 ¹⁰ kcal
NATURAL GAS	487.94	10 ⁶ cubic m	0.8794	10 ⁴ kcal/cubic m	429.07	10 ¹⁰ kcal
LNG	387.76	10 ³ t	1.1718	10 ⁷ kcal/t	454.36	10 ¹⁰ kcal
TOWN GAS	1,093.25	10 ¹⁰ kcal	0.9000	kcal/kcal	983.93	10 ¹⁰ kcal
ELECTRICITY	105,540.73	GWh	0.0860	10 ¹⁰ kcal/GWh	9,076.50	10 ¹⁰ kcal
TOTAL LOSSES AND OWN USE					26,413.80	10 ¹⁰ kcal
FINAL ENERGY CONSUMPTION TOTAL						
COAL	26,053.18	10 ³ t	0.6161	10 ⁷ kcal/t	16,052.56	10 ¹⁰ kcal
HARD COAL	25,194.06	10 ³ t	0.6161	10 ⁷ kcal/t	15,522.23	10 ¹⁰ kcal
STEAM COAL	13,117.65	10 ³ t	0.5795	10 ⁷ kcal/t	7,601.68	10 ¹⁰ kcal
COKING COAL	12,076.41	10 ³ t	0.6559	10 ⁷ kcal/t	7,920.55	10 ¹⁰ kcal
ANTHRACITE	859.12	10 ³ t	0.6173	10 ⁷ kcal/t	530.33	10 ¹⁰ kcal
COKE	21,217.49	10 ³ t	0.6831	10 ⁷ kcal/t	14,493.73	10 ¹⁰ kcal
COKE OVEN GAS	8,265.25	10 ⁶ cubic m	0.4320	10 ⁴ kcal/cubic m	3,570.59	10 ¹⁰ kcal
BRIQUETTES	40.93	10 ³ t	0.5424	10 ⁷ kcal/t	22.20	10 ¹⁰ kcal
BLAST FURNACE GAS	44,592.62	10 ⁶ cubic m	0.0814	10 ⁴ kcal/cubic m	3,628.88	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	1.28	10 ³ kL	0.8942	10 ⁷ kcal/kL	1.14	10 ¹⁰ kcal
CRUDE OIL	1.28	10 ³ kL	0.8942	10 ⁷ kcal/kL	1.14	10 ¹⁰ kcal
LPG	16,575.02	10 ³ t	1.1400	10 ⁷ kcal/t	18,895.52	10 ¹⁰ kcal
NAPHTHA	47,168.11	10 ³ kL	0.7600	10 ⁷ kcal/kL	35,847.76	10 ¹⁰ kcal
MOGAS	60,077.00	10 ³ kL	0.7852	10 ⁷ kcal/kL	47,174.15	10 ¹⁰ kcal
JET FUEL	4,528.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	3,771.31	10 ¹⁰ kcal
KEROSENE	29,742.58	10 ³ kL	0.8140	10 ⁷ kcal/kL	24,209.06	10 ¹⁰ kcal
DIESEL OIL	38,043.51	10 ³ kL	0.8669	10 ⁷ kcal/kL	32,980.99	10 ¹⁰ kcal
FUEL OIL	40,213.48	10 ³ kL	0.8973	10 ⁷ kcal/kL	36,085.15	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	9,679.97	10 ³ kL	0.8788	10 ⁷ kcal/kL	8,506.27	10 ¹⁰ kcal
NATURAL GAS AND LNG	622.68	10 ⁶ cubic m	0.8820	10 ⁴ kcal/cubic m	549.20	10 ¹⁰ kcal
NATURAL GAS	622.68	10 ⁶ cubic m	0.8820	10 ⁴ kcal/cubic m	549.20	10 ¹⁰ kcal
TOWN GAS	26,950.84	10 ¹⁰ kcal	0.9000	kcal/kcal	24,255.75	10 ¹⁰ kcal
GEOTHERMAL	249.60	10 ³ kL	0.9126	10 ⁷ kcal/kL	227.77	10 ¹⁰ kcal
SOLAR	700.25	10 ³ kL	0.9126	10 ⁷ kcal/kL	639.02	10 ¹⁰ kcal
OTHER COMMERCIAL	2,537.89	10 ³ kL	0.9250	10 ⁷ kcal/kL	2,347.55	10 ¹⁰ kcal
ELECTRICITY	970,080.76	GWh	0.0860	10 ¹⁰ kcal/GWh	83,426.98	10 ¹⁰ kcal
HEAT	549.70	10 ¹⁰ kcal	1.0000	kcal/kcal	549.70	10 ¹⁰ kcal
TOTAL					357,235.29	10 ¹⁰ kcal
AGRICULTURE						
KEROSENE	3,097.71	10 ³ kL	0.8329	10 ⁷ kcal/kL	2,580.04	10 ¹⁰ kcal
DIESEL OIL	2,244.71	10 ³ kL	0.8669	10 ⁷ kcal/kL	1,946.00	10 ¹⁰ kcal
FUEL OIL	4,900.80	10 ³ kL	0.8880	10 ⁷ kcal/kL	4,351.68	10 ¹⁰ kcal
GEOTHERMAL	106.97	10 ³ kL	0.9126	10 ⁷ kcal/kL	97.62	10 ¹⁰ kcal
ELECTRICITY	3,648.09	GWh	0.0860	10 ¹⁰ kcal/GWh	313.74	10 ¹⁰ kcal
TOTAL					9,289.07	10 ¹⁰ kcal
RESIDENTIAL COMMERCIAL						
COKE	1,105.54	10 ³ t	0.6831	10 ⁷ kcal/t	755.20	10 ¹⁰ kcal
BRIQUETTES	40.93	10 ³ t	0.5424	10 ⁷ kcal/t	22.20	10 ¹⁰ kcal
LPG	8,041.47	10 ³ t	1.1393	10 ⁷ kcal/t	9,161.34	10 ¹⁰ kcal
KEROSENE	17,602.01	10 ³ kL	0.8329	10 ⁷ kcal/kL	14,660.48	10 ¹⁰ kcal
DIESEL OIL	166.00	10 ³ kL	0.8669	10 ⁷ kcal/kL	143.91	10 ¹⁰ kcal
FUEL OIL	11,843.17	10 ³ kL	0.8893	10 ⁷ kcal/kL	10,532.69	10 ¹⁰ kcal
NATURAL GAS AND LNG	14.55	10 ⁶ cubic m	0.8820	10 ⁴ kcal/cubic m	12.84	10 ¹⁰ kcal
NATURAL GAS	14.55	10 ⁶ cubic m	0.8820	10 ⁴ kcal/cubic m	12.84	10 ¹⁰ kcal
TOWN GAS	16,391.17	10 ¹⁰ kcal	0.9000	kcal/kcal	14,752.06	10 ¹⁰ kcal
GEOTHERMAL	142.63	10 ³ kL	0.9126	10 ⁷ kcal/kL	130.16	10 ¹⁰ kcal
SOLAR	700.25	10 ³ kL	0.9126	10 ⁷ kcal/kL	639.02	10 ¹⁰ kcal
OTHER COMMERCIAL	39.47	10 ³ kL	0.9250	10 ⁷ kcal/kL	36.51	10 ¹⁰ kcal
ELECTRICITY	533,906.65	GWh	0.0860	10 ¹⁰ kcal/GWh	45,915.97	10 ¹⁰ kcal
HEAT	549.70	10 ¹⁰ kcal	1.0000	kcal/kcal	549.70	10 ¹⁰ kcal
TOTAL					97,312.06	10 ¹⁰ kcal
OTHERS						
TOTAL						10 ¹⁰ kcal
INDUSTRY						
COAL	26,053.18	10 ³ t	0.6161	10 ⁷ kcal/t	16,052.56	10 ¹⁰ kcal
HARD COAL	25,194.06	10 ³ t	0.6161	10 ⁷ kcal/t	15,522.23	10 ¹⁰ kcal
STEAM COAL	13,117.65	10 ³ t	0.5795	10 ⁷ kcal/t	7,601.68	10 ¹⁰ kcal
COKING COAL	12,076.41	10 ³ t	0.6559	10 ⁷ kcal/t	7,920.55	10 ¹⁰ kcal
ANTHRACITE	859.12	10 ³ t	0.6173	10 ⁷ kcal/t	530.33	10 ¹⁰ kcal
COKE	20,111.94	10 ³ t	0.6831	10 ⁷ kcal/t	13,738.53	10 ¹⁰ kcal
COKE OVEN GAS	8,265.25	10 ⁶ cubic m	0.4320	10 ⁴ kcal/cubic m	3,570.59	10 ¹⁰ kcal
BLAST FURNACE GAS	44,592.62	10 ⁶ cubic m	0.0814	10 ⁴ kcal/cubic m	3,628.88	10 ¹⁰ kcal
CRUDE OIL AND NGL/CONDENSATE	1.28	10 ³ kL	0.8942	10 ⁷ kcal/kL	1.14	10 ¹⁰ kcal
CRUDE OIL	1.28	10 ³ kL	0.8942	10 ⁷ kcal/kL	1.14	10 ¹⁰ kcal
LPG	7,317.42	10 ³ t	1.1400	10 ⁷ kcal/t	8,341.86	10 ¹⁰ kcal
NAPHTHA	47,168.11	10 ³ kL	0.7600	10 ⁷ kcal/kL	35,847.76	10 ¹⁰ kcal

Original Table (Energy Demand and Supply) of Japan in 2003 (Continued)

Year:2003

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
MOGAS	174.35	10 ³ kL	0.7852	10 ⁷ kcal/kL	136.91	10 ¹⁰ kcal
KEROSENE	9,042.86	10 ³ kL	0.7706	10 ⁷ kcal/kL	6,968.55	10 ¹⁰ kcal
DIESEL OIL	4,824.81	10 ³ kL	0.8669	10 ⁷ kcal/kL	4,182.77	10 ¹⁰ kcal
FUEL OIL	17,331.07	10 ³ kL	0.9014	10 ⁷ kcal/kL	15,622.09	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	2,970.85	10 ³ kL	0.8788	10 ⁷ kcal/kL	2,610.63	10 ¹⁰ kcal
NATURAL GAS AND LNG	608.12	10 ⁶ cubic m	0.8820	10 ⁷ kcal/kL	536.36	10 ¹⁰ kcal
NATURAL GAS	608.12	10 ⁶ cubic m	0.8820	10 ⁷ kcal/kL	536.36	10 ¹⁰ kcal
TOWN GAS	10,559.67	10 ¹⁰ kcal	0.9000	kcal/kcal	9,503.70	10 ¹⁰ kcal
OTHER COMMERCIAL	2,498.42	10 ³ kL	0.9250	10 ⁷ kcal/kL	2,311.04	10 ¹⁰ kcal
ELECTRICITY	411,112.97	GWh	0.0860	10 ¹⁰ kcal/GWh	35,355.72	10 ¹⁰ kcal
TOTAL					158,409.09	10 ¹⁰ kcal
TRANSPORT						
LPG	1,222.12	10 ³ t	1.1393	10 ⁷ kcal/t	1,392.32	10 ¹⁰ kcal
MOGAS	59,902.65	10 ³ kL	0.7852	10 ⁷ kcal/kL	47,037.24	10 ¹⁰ kcal
JET FUEL	4,528.00	10 ³ kL	0.8329	10 ⁷ kcal/kL	3,771.31	10 ¹⁰ kcal
DIESEL OIL	30,807.99	10 ³ kL	0.8669	10 ⁷ kcal/kL	26,708.31	10 ¹⁰ kcal
FUEL OIL	6,116.46	10 ³ kL	0.9121	10 ⁷ kcal/kL	5,578.69	10 ¹⁰ kcal
ELECTRICITY	21,413.07	GWh	0.0860	10 ¹⁰ kcal/GWh	1,841.52	10 ¹⁰ kcal
TOTAL					86,329.40	10 ¹⁰ kcal
NON-ENERGY	6,709.12	10 ³ kL	0.8788	10 ⁷ kcal/kL	5,895.64	10 ¹⁰ kcal

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	174,721	
COAL	41,310	
OIL	57,139	
GAS	76,271	
HYDRO POWER	46,781	
NUCLEAR POWER	45,742	
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	1,043	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	83
CRUDE DISTILLATION CAPACITY	1000BD	4835
VACUUM DISTILLATION CAPACITY	1000BD	1775
CATALYTIC HYDROCRACKING CAPACITY	1000BD	143
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	2290
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	1439
CATALYTIC CRACKING CAPACITY	1000BD	984
CATALYTIC REFORMING CAPACITY	1000BD	791

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Japan in 2003

2003

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	13,332.70	10 ³ t	0.6828	10 ⁷ kcal/t	9,103.76	10 ¹⁰ kcal
HARD COAL	13,332.70	10 ³ t	0.6828	10 ⁷ kcal/t	9,103.76	10 ¹⁰ kcal
STEAM COAL	1,256.29	10 ³ t	0.6100	10 ⁷ kcal/t	766.34	10 ¹⁰ kcal
COKING COAL	12,076.41	10 ³ t	0.7600	10 ⁷ kcal/t	8,337.42	10 ¹⁰ kcal
COKE	18,875.97	10 ³ t	0.7200	10 ⁷ kcal/t	13,572.88	10 ¹⁰ kcal
COKE OVEN GAS	7,713.29	10 ⁶ cubic m	0.4800	10 ⁴ kcal/cubic m	3,702.38	10 ¹⁰ kcal
BLAST FURNACE GAS	44,055.24	10 ⁶ cubic m	0.0891	10 ⁴ kcal/cubic m	3,927.41	10 ¹⁰ kcal
LPG	384.13	10 ³ t	1.2000	10 ⁷ kcal/t	460.95	10 ¹⁰ kcal
KEROSENE	184.47	10 ³ kL	0.8900	10 ⁷ kcal/kL	161.73	10 ¹⁰ kcal
DIESEL OIL	43.52	10 ³ kL	0.9200	10 ⁷ kcal/kL	39.71	10 ¹⁰ kcal
FUEL OIL	1,477.78	10 ³ kL	0.9574	10 ⁷ kcal/kL	1,414.89	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	347.67	10 ³ t	0.8500	10 ⁷ kcal/t	295.52	10 ¹⁰ kcal
TOWN GAS	1,599.94	10 ¹⁰ kcal	1.0000	kcal/kcal	1,437.16	10 ¹⁰ kcal
ELECTRICITY	81,548.84	GWh	0.0860	10 ¹⁰ kcal/GWh	7,013.20	10 ¹⁰ kcal
PUBLIC UTILITIES	55,839.96	GWh	0.0860	10 ¹⁰ kcal/GWh	4,802.24	10 ¹⁰ kcal
AUTOPRODUCER	25,708.89	GWh	0.0860	10 ¹⁰ kcal/GWh	2,210.97	10 ¹⁰ kcal
TOTAL					41,129.60	10 ¹⁰ kcal
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	1,556.35	10 ³ t	0.6139	10 ⁷ kcal/t	955.47	10 ¹⁰ kcal
HARD COAL	1,403.04	10 ³ t	0.6100	10 ⁷ kcal/t	855.85	10 ¹⁰ kcal
STEAM COAL	1,403.04	10 ³ t	0.6100	10 ⁷ kcal/t	855.85	10 ¹⁰ kcal
ANTHRACITE	153.31	10 ³ t	0.6500	10 ⁷ kcal/t	99.62	10 ¹⁰ kcal
COKE	49.87	10 ³ t	0.7200	10 ⁷ kcal/t	35.86	10 ¹⁰ kcal
COKE OVEN GAS	50.13	10 ⁶ cubic m	0.4800	10 ⁴ kcal/cubic m	24.06	10 ¹⁰ kcal
BLAST FURNACE GAS	318.66	10 ⁶ cubic m	0.1920	10 ⁴ kcal/cubic m	61.20	10 ¹⁰ kcal
CRUDE OIL AND NGL	1.28	10 ³ kL	0.8669	10 ⁷ kcal/kL	1.11	10 ¹⁰ kcal
LPG	2,490.89	10 ³ t	1.2000	10 ⁷ kcal/t	2,989.07	10 ¹⁰ kcal
NAPHTHA	46,956.04	10 ³ kL	0.8000	10 ⁷ kcal/kL	37,564.83	10 ¹⁰ kcal
KEROSENE	398.32	10 ³ kL	0.8900	10 ⁷ kcal/kL	349.22	10 ¹⁰ kcal
DIESEL OIL	1.40	10 ³ kL	0.9200	10 ⁷ kcal/kL	1.27	10 ¹⁰ kcal
FUEL OIL	2,315.27	10 ³ kL	0.9464	10 ⁷ kcal/kL	2,191.15	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	657.10	10 ³ KG	0.8500	10 ⁷ kcal/kL	558.53	10 ¹⁰ kcal
NATURAL GAS/LNG	423.42	10 ⁶ cubic m	0.9771	10 ⁷ kcal/kL	413.70	10 ¹⁰ kcal
NATURAL GAS	423.42	10 ⁶ cubic m	0.9771	10 ⁷ kcal/kL	413.70	10 ¹⁰ kcal
TOWN GAS	2,178.17	10 ¹⁰ kcal	1.0000	kcal/kcal	1,698.77	10 ¹⁰ kcal
OTHER COMMERCIAL	5.41	10 ³ kL	0.9250	10 ⁷ kcal/kL	5.00	10 ¹⁰ kcal
ELECTRICITY	64,309.58	GWh	0.0860	10 ¹⁰ kcal/GWh	5,530.63	10 ¹⁰ kcal
PUBLIC UTILITIES	30,048.36	GWh	0.0860	10 ¹⁰ kcal/GWh	2,584.16	10 ¹⁰ kcal
AUTOPRODUCER	34,261.22	GWh	0.0860	10 ¹⁰ kcal/GWh	2,946.47	10 ¹⁰ kcal
TOTAL					52,378.77	10 ¹⁰ kcal
1.3 NON-FERROUS METALS						
COAL	124.10	10 ³ t	0.6100	10 ⁷ kcal/t	75.70	10 ¹⁰ kcal
HARD COAL	124.10	10 ³ t	0.6100	10 ⁷ kcal/t	75.70	10 ¹⁰ kcal
STEAM COAL	124.10	10 ³ t	0.6100	10 ⁷ kcal/t	75.70	10 ¹⁰ kcal
COKE	279.72	10 ³ t	0.7200	10 ⁷ kcal/t	201.14	10 ¹⁰ kcal
BLAST FURNACE GAS	2.25	10 ⁶ cubic m	0.0800	10 ⁴ kcal/cubic m	0.18	10 ¹⁰ kcal
LPG	172.88	10 ³ t	1.2000	10 ⁷ kcal/t	207.46	10 ¹⁰ kcal
KEROSENE	188.70	10 ³ kL	0.8900	10 ⁷ kcal/kL	165.44	10 ¹⁰ kcal
DIESEL OIL	3.84	10 ³ kL	0.9200	10 ⁷ kcal/kL	3.50	10 ¹⁰ kcal
FUEL OIL	695.44	10 ³ kL	0.9445	10 ⁷ kcal/kL	656.83	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	19.84	10 ³ t	0.8500	10 ⁷ kcal/t	16.86	10 ¹⁰ kcal
TOWN GAS	364.55	10 ¹⁰ kcal	1.0000	kcal/kcal	364.55	10 ¹⁰ kcal
ELECTRICITY	18,543.30	GWh	0.0860	10 ¹⁰ kcal/GWh	1,594.72	10 ¹⁰ kcal
PUBLIC UTILITIES	16,117.52	GWh	0.0860	10 ¹⁰ kcal/GWh	1,386.11	10 ¹⁰ kcal
AUTOPRODUCER	2,425.78	GWh	0.0860	10 ¹⁰ kcal/GWh	208.62	10 ¹⁰ kcal
TOTAL					3,286.39	10 ¹⁰ kcal
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	8,260.18	10 ³ t	0.6134	10 ⁷ kcal/t	5,066.78	10 ¹⁰ kcal
HARD COAL	7,554.37	10 ³ t	0.6100	10 ⁷ kcal/t	4,608.16	10 ¹⁰ kcal
STEAM COAL	7,554.37	10 ³ t	0.6100	10 ⁷ kcal/t	4,608.16	10 ¹⁰ kcal
ANTHRACITE	705.81	10 ³ t	0.6500	10 ⁷ kcal/t	458.62	10 ¹⁰ kcal
COKE	220.42	10 ³ t	0.7200	10 ⁷ kcal/t	158.50	10 ¹⁰ kcal
COKE OVEN GAS	319.08	10 ⁶ cubic m	0.4800	10 ⁴ kcal/cubic m	153.16	10 ¹⁰ kcal
BLAST FURNACE GAS	216.46	10 ⁶ cubic m	0.2000	10 ⁴ kcal/cubic m	43.29	10 ¹⁰ kcal
LPG	166.50	10 ³ t	1.2000	10 ⁷ kcal/t	199.80	10 ¹⁰ kcal
KEROSENE	79.95	10 ³ kL	0.8900	10 ⁷ kcal/kL	70.09	10 ¹⁰ kcal
DIESEL OIL	8.80	10 ³ kL	0.9126	10 ⁷ kcal/kL	8.03	10 ¹⁰ kcal
FUEL OIL	3,081.58	10 ³ kL	0.9492	10 ⁷ kcal/kL	2,924.90	10 ¹⁰ kcal

Original Table (Disaggregated Final Energy Demand) of Japan in 2003 (Continued)

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
OTHER PETROLEUM PRODUCTS	968.28	10 ³ KG	0.8500	10 ⁷ kcal/kL	823.04	10 ¹⁰ kcal
TOWN GAS	423.57	10 ¹⁰ kcal	1.0000	kcal/kcal	423.57	10 ¹⁰ kcal
ELECTRICITY	20,747.21	GWh	0.0860	10 ¹⁰ kcal/GWh	1,784.26	10 ¹⁰ kcal
PUBLIC UTILITIES	13,921.41	GWh	0.0860	10 ¹⁰ kcal/GWh	1,197.24	10 ¹⁰ kcal
AUTOPRODUCER	6,825.79	GWh	0.0860	10 ¹⁰ kcal/GWh	587.02	10 ¹⁰ kcal
TOTAL					11,655.42	10 ¹⁰ kcal
1.5 PAPER, PULP AND PRINTING						
COAL	2,406.80	10 ³ t	0.6100	10 ⁷ kcal/t	1,468.15	10 ¹⁰ kcal
HARD COAL	2,406.80	10 ³ t	0.6100	10 ⁷ kcal/t	1,468.15	10 ¹⁰ kcal
STEAM COAL	2,406.80	10 ³ t	0.6100	10 ⁷ kcal/t	1,468.15	10 ¹⁰ kcal
LPG	31.65	10 ³ t	1.2000	10 ⁷ kcal/t	37.97	10 ¹⁰ kcal
KEROSENE	137.42	10 ³ kL	0.8900	10 ⁷ kcal/kL	120.48	10 ¹⁰ kcal
DIESEL OIL	2.63	10 ³ kL	0.9200	10 ⁷ kcal/kL	2.40	10 ¹⁰ kcal
FUEL OIL	2,480.75	10 ³ kL	0.9731	10 ⁷ kcal/kL	2,414.04	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	82.40	10 ³ t	0.8500	10 ⁷ kcal/t	70.04	10 ¹⁰ kcal
TOWN GAS	682.96	10 ¹⁰ kcal	1.0000	kcal/kcal	431.00	10 ¹⁰ kcal
OTHER COMMERCIAL	2,444.45	10 ³ kL	0.9250	10 ⁷ kcal/kL	2,261.11	10 ¹⁰ kcal
ELECTRICITY	34,716.41	GWh	0.0860	10 ¹⁰ kcal/GWh	2,985.61	10 ¹⁰ kcal
PUBLIC UTILITIES	11,148.39	GWh	0.0860	10 ¹⁰ kcal/GWh	958.76	10 ¹⁰ kcal
AUTOPRODUCER	23,568.02	GWh	0.0860	10 ¹⁰ kcal/GWh	2,026.85	10 ¹⁰ kcal
TOTAL					9,790.80	10 ¹⁰ kcal
1.6 OTHER INDUSTRIES						
COAL	373.06	10 ³ t	0.6100	10 ⁷ kcal/t	227.57	10 ¹⁰ kcal
HARD COAL	373.06	10 ³ t	0.6100	10 ⁷ kcal/t	227.57	10 ¹⁰ kcal
STEAM COAL	373.06	10 ³ t	0.6100	10 ⁷ kcal/t	227.57	10 ¹⁰ kcal
COKE	685.96	10 ³ t	0.7200	10 ⁷ kcal/t	493.24	10 ¹⁰ kcal
COKE OVEN GAS	182.75	10 ⁶ cubic m	0.4800	10 ⁴ kcal/cubic m	87.72	10 ¹⁰ kcal
LPG	4,071.38	10 ³ t	1.2000	10 ⁷ kcal/t	4,885.65	10 ¹⁰ kcal
NAPHTHA	212.07	10 ³ kL	0.8000	10 ⁷ kcal/kL	169.66	10 ¹⁰ kcal
MOGAS	174.35	10 ³ kL	0.8400	10 ⁷ kcal/kL	144.11	10 ¹⁰ kcal
KEROSENE	8,054.00	10 ³ kL	0.8900	10 ⁷ kcal/kL	6,468.36	10 ¹⁰ kcal
DIESEL OIL	4,764.64	10 ³ kL	0.9200	10 ⁷ kcal/kL	4,348.00	10 ¹⁰ kcal
FUEL OIL	7,280.26	10 ³ kL	0.9399	10 ⁷ kcal/kL	6,842.50	10 ¹⁰ kcal
OTHER PETROLEUM PRODUCTS	1,157.09	10 ³ t	0.8504	10 ⁷ kcal/t	984.04	10 ¹⁰ kcal
NATURAL GAS/LNG	186.54	10 ⁶ cubic m	0.9800	10 ⁷ kcal/kL	182.26	10 ¹⁰ kcal
NATURAL GAS	186.54	10 ⁶ cubic m	0.9800	10 ⁷ kcal/kL	182.26	10 ¹⁰ kcal
TOWN GAS	5,310.47	10 ¹⁰ kcal	1.0000	kcal/kcal	5,310.48	10 ¹⁰ kcal
OTHER COMMERCIAL	48.57	10 ³ kL	0.9250	10 ⁷ kcal/kL	44.92	10 ¹⁰ kcal
ELECTRICITY	191,247.63	GWh	0.0860	10 ¹⁰ kcal/GWh	16,447.30	10 ¹⁰ kcal
PUBLIC UTILITIES	176,545.98	GWh	0.0860	10 ¹⁰ kcal/GWh	15,182.96	10 ¹⁰ kcal
AUTOPRODUCER	14,701.65	GWh	0.0860	10 ¹⁰ kcal/GWh	1,264.34	10 ¹⁰ kcal
TOTAL					46,635.80	10 ¹⁰ kcal
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	4,528.00	10 ³ kL	0.8700	10 ⁷ kcal/kL	3,969.80	10 ¹⁰ kcal
TOTAL					3,969.80	10 ¹⁰ kcal
2.2 ROAD						
LPG	1,222.12	10 ³ t	1.2000	10 ⁷ kcal/t	1,465.60	10 ¹⁰ kcal
MOGAS	59,902.65	10 ³ kL	0.8400	10 ⁷ kcal/kL	49,512.89	10 ¹⁰ kcal
DIESEL OIL	29,156.65	10 ³ kL	0.9200	10 ⁷ kcal/kL	26,607.08	10 ¹⁰ kcal
TOTAL					77,585.57	10 ¹⁰ kcal
2.3 RAIL						
DIESEL OIL	1,099.98	10 ³ kL	0.9200	10 ⁷ kcal/kL	1,003.79	10 ¹⁰ kcal
ELECTRICITY	21,413.06	GWh	0.0860	10 ¹⁰ kcal/GWh	1,841.52	10 ¹⁰ kcal
TOTAL					2,845.31	10 ¹⁰ kcal
2.4 INTERNAL NAVIGATION						
DIESEL OIL	551.36	10 ³ kL	0.9200	10 ⁷ kcal/kL	503.14	10 ¹⁰ kcal
FUEL OIL	6,116.46	10 ³ kL	0.9601	10 ⁷ kcal/kL	5,872.30	10 ¹⁰ kcal
TOTAL					6,375.44	10 ¹⁰ kcal
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
COKE	1,105.54	10 ³ t	0.7200	10 ⁷ kcal/t	794.95	10 ¹⁰ kcal
LPG	2,461.61	10 ³ t	1.2000	10 ⁷ kcal/t	2,952.02	10 ¹⁰ kcal
KEROSENE	2,928.38	10 ³ kL	0.8900	10 ⁷ kcal/kL	2,567.38	10 ¹⁰ kcal
DIESEL OIL	166.00	10 ³ kL	0.9200	10 ⁷ kcal/kL	151.49	10 ¹⁰ kcal
FUEL OIL	11,843.17	10 ³ kL	0.9362	10 ⁷ kcal/kL	11,087.04	10 ¹⁰ kcal
NATURAL GAS/LNG	14.55	10 ⁶ cubic m	0.9800	10 ⁴ kcal/cubic m	14.26	10 ¹⁰ kcal
NATURAL GAS	14.55	10 ⁶ cubic m	0.9800	10 ⁴ kcal/cubic m	14.26	10 ¹⁰ kcal
TOWN GAS	6,618.31	10 ¹⁰ kcal	1.0000	kcal/kcal	6,618.32	10 ¹⁰ kcal
GEOTHERMAL	142.63	10 ³ kL	0.9126	10 ⁷ kcal/kL	130.16	10 ¹⁰ kcal

Original Table (Disaggregated Final Energy Demand) of Japan in 2003 (Continued)

2003

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
SOLAR	19.25	10 ³ kL	0.9250	10 ⁷ kcal/kL	17.57	10 ¹⁰ kcal
ELECTRICITY	263,825.10	GWh	0.0860	10 ¹⁰ kcal/GWh	22,688.97	10 ¹⁰ kcal
HEAT	518.43	10 ¹⁰ kcal	1.0000	kcal/kcal	518.43	10 ¹⁰ kcal
TOTAL					47,540.57	10 ¹⁰ kcal
3.2 RESIDENTIAL						
BRIQUETTES	40.93	10 ³ t	0.5700	10 ⁷ kcal/t	23.37	10 ¹⁰ kcal
LPG	5,579.86	10 ³ t	1.2000	10 ⁷ kcal/t	6,691.49	10 ¹⁰ kcal
KEROSENE	14,673.63	10 ³ kL	0.8900	10 ⁷ kcal/kL	12,864.70	10 ¹⁰ kcal
TOWN GAS	9,772.86	10 ¹⁰ kcal	1.0000	kcal/kcal	9,772.88	10 ¹⁰ kcal
SOLAR	681.00	10 ³ kL	0.9250	10 ⁷ kcal/kL	621.45	10 ¹⁰ kcal
OTHER COMMERCIAL	39.47	10 ³ kL	0.9250	10 ⁷ kcal/kL	36.51	10 ¹⁰ kcal
ELECTRICITY	270,081.55	GWh	0.0860	10 ¹⁰ kcal/GWh	23,227.02	10 ¹⁰ kcal
HEAT	31.27	10 ¹⁰ kcal	1.0000	kcal/kcal	31.27	10 ¹⁰ kcal
TOTAL					53,268.70	10 ¹⁰ kcal

Original Table (Energy Price) of Japan in 2003
Year: 2003

Japan	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
HARD COAL			
STEAM COAL	Yen/ton	4,117.0	
COKING COAL	Yen/ton	4,867.0	
SUBBITUMINOUS COAL			
CRUDE OIL	Yen/kL	20,940.0	
PETROLEUM PRODUCTS			
LPG	Yen/ton	36,156.0	
NAPHTHA	Yen/kL	23,570.0	
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
A HEAVY OIL			
C FUEL OIL	Yen/kL	27,999.0	
NATURAL GAS (LNG)	Yen/ton	28,019.0	
WHOLESALE PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA	Yen/kL	26,830.1	
MOGAS	Yen/kL	100,984.9	
JET FUEL		N.A.	
KEROSENE	Yen/kL	47,616.0	
DIESEL OIL	Yen/kL	122,826.0	
A HEAVY OIL	Yen/kL	45,948.6	
C FUEL OIL	Yen/kL	15,980.2	
LPG			
ELECTRICITY (AVERAGE)	Yen/kWh	NA	
INDUSTRIAL USERS	Yen/kWh	NA	
COMMERCIAL USERS	Yen/kWh	NA	
CONSUMER PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	Yen/L (Tokyo)	107.0	Regular
KEROSENE	Yen/L (Tokyo)	60.1	
DIESEL OIL	Yen/L (Tokyo)	84.0	
A HEAVY OIL			
LPG	Yen/m3 (Tokyo)	573.5	
RESIDENTIAL USERS (LIGHTING)			

Original Table (Quarterly) of Japan in 2004

Coal		Unit: 10 ³ ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	11,226	-	-
	FEB.	-	14,360	-	-
	MAR.	-	14,705	-	-
	1st quarter	-	40,291	-	-
	APR.	-	15,099	-	-
	MAY.	-	15,188	-	-
	JUN.	-	15,874	-	-
	2nd quarter	-	46,161	-	-
	JUL.	-	15,923	-	-
	AUG.	-	15,232	-	-
	SEP.	-	14,481	-	-
	3rd quarter	-	45,637	-	-
	OCT.	-	13,666	-	-
	NOV.	-	15,703	-	-
	DEC.	-	15,320	-	-
	4th quarter	-	44,689	-	-
		-	176,778	-	-

Oil		Unit: 1,000kL						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	84	22,317	-	17,724	4,132	1,115	1,240
	FEB.	77	20,688	-	17,272	4,480	1,344	893
	MAR.	88	21,817	-	17,242	4,349	1,483	1,206
	1st quarter	249	64,822	-	52,238	12,960	3,942	3,338
	APR.	61	18,350	-	15,941	3,870	1,202	-702
	MAY.	65	19,255	-	17,661	4,551	1,412	14
	JUN.	62	17,218	-	17,858	4,204	1,263	-92
	2nd quarter	188	54,823	-	51,460	12,625	3,877	-781
	JUL.	62	21,329	-	18,992	4,418	1,428	-600
	AUG.	63	19,521	-	16,375	4,225	1,655	-903
	SEP.	61	20,567	-	17,928	3,974	1,490	-635
	3rd quarter	186	61,417	-	53,295	12,616	4,573	-2,137
	OCT.	63	21,014	-	19,851	4,257	1,443	-55
	NOV.	73	20,851	-	20,201	4,621	1,228	-1,391
	DEC.	87	20,488	-	18,725	4,297	1,295	1,265
	4th quarter	223	62,353	-	58,777	13,175	3,966	-182
		846	243,415	-	215,770	51,377	16,359	239

Original Table (Quarterly) of Japan in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000m ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	292,914	6,736,800	-	165,728	
	FEB.	276,891	5,457,200	-	165,594	
	MAR.	276,635	6,386,800	-	165,591	
	1st quarter	846,440	18,580,800	-	496,913	
	APR.	213,860	4,893,000	-	165,922	
	MAY.	209,412	5,104,400	-	166,576	
	JUN.	212,788	6,127,800	-	167,311	
	2nd quarter	636,060	16,125,200	-	499,809	
	JUL.	237,117	6,127,800	-	167,531	
	AUG.	220,085	6,596,800	-	164,155	
	SEP.	212,663	6,011,600	-	161,009	
	3rd quarter	669,865	18,736,200	-	492,695	
	OCT.	207,979	5,560,800	-	161,263	
	NOV.	242,338	6,136,200	-	166,143	
	DEC.	280,761	5,668,600	-	167,010	
	4th quarter	731,078	17,365,600	-	494,416	
		2,883,443	70,807,800	-	1,983,833	

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	82,462	53,115	5,362	23,697	287	-	-
	FEB.	75,690	49,087	5,078	21,259	266	-	-
	MAR.	78,824	47,944	6,647	23,952	281	-	-
	1st quarter	236,976	150,146	17,088	68,908	835	-	-
	APR.	69,971	37,654	8,052	23,999	267	-	-
	MAY.	72,710	34,154	12,086	26,235	235	-	-
	JUN.	77,879	42,170	10,229	25,237	243	-	-
	2nd quarter	220,559	113,977	30,367	75,470	745	-	-
	JUL.	81,718	45,861	8,079	27,506	272	-	-
	AUG.	77,211	44,108	8,012	24,819	271	-	-
	SEP.	70,984	41,015	9,044	20,663	262	-	-
	3rd quarter	229,912	130,984	25,135	72,988	805	-	-
	OCT.	64,377	34,989	9,089	20,048	251	-	-
	NOV.	64,139	32,681	6,734	24,457	267	-	-
	DEC.	69,178	38,123	6,775	23,995	286	-	-
	4th quarter	197,694	105,793	22,598	68,499	804	-	-
		885,142	500,899	95,188	285,866	3,189	-	-

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.9 Republic of Korea

Energy Balance Table of Republic of Korea in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	1,410	-	-	-	-	-	-	-	-
2 Import	43,599	-	111,993	25,993	258	15,947	455	870	1,548
3 Export	-	-	-	-28,379	-1,697	-3,742	-3,634	-1,727	-8,451
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	248	-	-738	207	11	211	-24	-162	-28
6 Total Primary Energy Supply	45,257	-	111,254	-2,179	-1,428	12,416	-3,204	-1,018	-6,930
7 Public Electricity	-26,103	-	-	-5,592	-	-	-	-	-320
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-86	-	-	-	-	-
10 Petroleum Refineries	-	-	-108,951	110,530	9,157	17,994	7,236	8,323	28,162
11 Coal Transformation	-686	686	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	2,325	-	-2,303	-11,165	-147	89	-1,328	-590	-1,034
14 Total Final Energy Consumption	20,793	686	-	91,508	7,582	30,499	2,704	6,714	19,877
15 Industry Sector	20,793	-	-	40,564	45	30,499	2	287	778
16 Transport Sector	-	-	-	32,572	7,252	-	2,070	25	15,301
17 Other Sector	-	686	-	15,019	285	-	632	6,402	3,798
18 Agriculture	-	-	-	3,083	207	-	-	499	2,157
19 Residential & Commercial	-	686	-	11,936	78	-	632	5,903	1,641
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	3,353	-	-	-	-	-

Energy Balance Table of Republic of Korea in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	1,418	-	-	-	-	-	-	-	-
2 Import	42,740	-	110,070	27,238	505	14,730	365	909	1,796
3 Export	-	-	-	-32,081	-1,946	-5,430	-5,520	-1,341	-10,593
4 International Marine Bunkers	-	-	-	-6,759	-	-	-	-	-
5 Stock Changes	210	-	503	880	9	186	112	493	250
6 Total Primary Energy Supply	44,369	-	110,573	-10,722	-1,432	9,486	-5,042	61	-8,547
7 Public Electricity	-26,093	-	-	-5,786	-	-	-	-	-96
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-156	-	-	-	-	-
10 Petroleum Refineries	-	-	-109,487	112,538	9,645	19,805	8,900	8,100	28,865
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	2,272	-	-1,085	-4,378	-181	349	-1,223	-621	-1,138
14 Total Final Energy Consumption	20,548	-	-	91,496	8,033	29,640	2,636	7,540	19,084
15 Industry Sector	19,885	-	-	40,531	50	29,640	2	335	757
16 Transport Sector	-	-	-	31,814	7,563	-	2,186	30	14,335
17 Other Sector	662	-	-	16,098	419	-	447	7,176	3,992
18 Agriculture	-	-	-	3,585	338	-	-	550	2,465
19 Residential & Commercial	662	-	-	12,513	81	-	447	6,625	1,527
20 Other	-	-	-	0	-	-	-	-	-
21 Non-energy	-	-	-	3,054	-	-	-	-	-

Energy Balance Table of Republic of Korea in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	592	33,790	-	3,241	-	-	39,033
2,067	4,847	-	-	22,738	-	-	-	-	-	-	-	204,323
-6,853	-279	-	-1,995	-	-	-	-	-	-	-	-	-28,379
-	-	-	-	-	-	-	-	-	-	-	-	-
203	-54	-	50	-380	-	-	-	-	-	-	-	-664
-4,583	4,515	-	-1,946	22,358	-	592	33,790	-	3,241	-	-	214,313
-5,272	0	-	-	-7,567	-	-592	-33,790	-	-30	27,729	1,345	-44,601
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-86	-	-	-14,014	14,128	-	-	-	-	-	-	28
30,465	3,821	-	5,373	-	-	-	-	-	-	-	-	1,579
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-193	-20	-	-	-	-	-2,479	-45	-2,737
-8,589	348	-	87	-583	-184	-	-	-	0	0	0	-11,911
12,020	8,598	-	3,514	-	13,923	-	-	-	3,210	25,250	1,300	156,671
7,183	1,770	-	-	-	3,739	-	-	-	2,503	12,422	-	80,020
3,729	4,194	-	1	-	131	-	-	-	-	200	-	32,904
1,109	2,634	-	159	-	10,053	-	-	-	708	12,627	1,300	40,394
214	5	-	1	-	21	-	-	-	-	511	-	3,615
895	2,628	-	159	-	10,033	-	-	-	708	11,551	1,300	36,214
-	-	-	-	-	-	-	-	-	-	564	-	564
-	-	-	3,353	-	-	-	-	-	-	-	-	3,353

Energy Balance Table of Republic of Korea in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	457	31,039	-	2,925	-	-	35,839
3,543	5,378	-	11	20,440	-	-	-	-	-	-	-	200,488
-5,237	-280	-	-1,735	-	-	-	-	-	-	-	-	-32,081
-6,759	-	-	-	-	-	-	-	-	-	-	-	-6,759
100	-221	-	-49	366	-	-	-	-	-	-	-	1,958
-8,353	4,877	-	-1,773	20,805	-	457	31,039	-	2,925	-	-	199,445
-5,548	0	-	-142	-7,616	-205	-457	-31,039	-	-	26,357	1,283	-43,556
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-155	-	-1	-13,097	13,056	-	-	-	-	-	-	-198
28,240	4,056	-	4,927	-	-	-	-	-	-	-	-	3,051
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-76	-260	-	-	-	-	-2,410	-59	-2,806
-1,748	-5	-	188	-16	521	-	-	-	-	0	0	-2,687
12,591	8,773	-	3,199	-	13,110	-	-	-	2,925	23,947	1,223	153,250
7,816	1,931	-	-	-	3,569	-	-	-	2,359	11,894	-	78,238
3,680	4,017	-	2	-	72	-	-	-	-	195	-	32,081
1,096	2,825	-	143	-	9,470	-	-	-	566	11,858	1,223	39,878
226	6	-	0	-	17	-	-	-	-	529	-	4,131
870	2,819	-	143	-	9,453	-	-	-	566	10,765	1,223	35,183
-	0	-	-	-	-	-	-	-	-	564	-	564
-	-	-	3,054	-	-	-	-	-	-	-	-	3,054

Major Energy Indicators of Republic of Korea

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	38,321	50,062	52,892	60,428	66,039	74,951	79,470	89,356	99,249
Indigenous Production	9,215	12,618	14,547	18,322	21,312	21,143	21,621	21,690	21,547
Import	29,598	39,105	43,008	49,050	51,424	59,143	65,110	73,284	90,926
Export	-10	-3,306	-3,567	-3,699	-4,499	-4,237	-4,783	-3,797	-9,897
Final Energy Consumption	35,685	41,237	43,496	47,585	52,239	57,790	62,817	71,863	80,361
Industry	15,567	17,373	17,822	19,303	21,902	25,027	27,416	32,028	38,020
Transport	4,672	5,709	6,375	7,318	8,815	10,214	11,659	13,468	15,353
Residential & Commercial	12,956	16,205	17,403	18,580	19,042	19,857	20,721	22,783	22,767
Agriculture	17	809	846	1,133	1,205	1,400	1,555	1,729	1,911
Coal, Coal Products									
Primary Energy Supply	12,539	19,618	21,542	21,670	23,115	26,302	24,836	23,226	24,694
Indigenous Production	8,139	9,339	9,851	10,598	10,607	10,386	8,886	7,360	6,437
Import	4,689	8,164	12,354	12,914	13,172	15,283	15,605	14,965	18,355
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-734	-2,908	-3,878	-4,220	-3,667	-4,367	-4,157	-4,304	-4,389
Power Generation	-734	-2,908	-3,878	-4,220	-3,667	-4,367	-4,157	-4,304	-4,389
Final Energy Consumption	11,805	15,965	17,043	17,943	18,789	19,537	19,111	18,862	18,918
Industry	3,471	6,092	6,166	6,460	7,614	8,849	9,750	10,266	12,107
Transport	2	-	-	-	-	-	-	-	-
Residential & Commercial	8,332	9,874	10,877	11,483	11,175	10,688	9,360	8,596	6,811
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	22,901	27,787	27,596	32,014	30,080	36,330	41,247	42,911	55,583
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	22,901	27,787	27,596	32,014	30,080	36,330	41,247	42,911	55,583
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-22,534	-28,100	-27,988	-29,185	-29,350	-35,682	-41,290	-42,795	-57,460
Petroleum Refineries	-22,534	-28,100	-27,988	-29,185	-29,350	-35,682	-41,290	-42,795	-57,460
Petroleum Products									
Primary Energy Supply	1,805	-621	-942	-1,043	246	-884	-1,716	6,169	711
Import	2,008	3,155	3,057	3,985	6,207	5,120	5,906	12,732	13,761
Export	-10	-3,306	-3,567	-3,699	-4,499	-4,237	-4,783	-3,797	-9,897
Transformation Sector	18,038	21,642	22,821	25,166	26,759	31,802	36,742	37,069	49,637
Power Generation	-6,639	-5,672	-4,249	-3,035	-1,130	-2,638	-3,226	-4,425	-6,177
Petroleum Refineries	24,692	27,367	27,155	28,317	27,973	34,529	40,117	41,745	56,241
Final Energy Consumption	21,052	21,179	22,015	24,680	27,742	31,494	36,010	43,899	51,000
Industry	10,143	8,675	8,883	9,704	10,650	12,015	13,135	16,581	20,178
Transport	4,636	5,657	6,313	7,242	8,741	10,133	11,576	13,381	15,259
Residential & Commercial	3,800	4,942	4,975	5,414	5,943	6,764	8,403	10,478	11,744
Agriculture	-	764	794	1,068	1,133	1,288	1,429	1,604	1,758
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	64	1,893	2,445	2,367	2,721	3,152
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	137	1,965	2,410	2,353	2,677	3,227
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	13	46	75	55	-1,714	-2,141	-1,810	-1,811	-1,766
Power Generation	-	-	-	-52	-1,795	-2,226	-1,950	-2,034	-2,106
Final Energy Consumption	13	46	75	119	179	305	558	910	1,387
Industry	-	1	13	36	68	99	143	211	282
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	13	45	62	84	112	206	415	699	1,105
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	3,203	4,627	4,989	5,564	6,363	7,350	8,125	9,259	10,201
Thermal	2,733	3,407	3,217	2,783	2,523	3,594	3,659	4,164	4,924
Hydro	171	206	332	346	460	307	392	547	434
Nuclear	299	1,014	1,440	2,435	3,381	3,449	4,073	4,548	4,843
Final Energy Consumption	2,815	4,046	4,363	4,843	5,519	6,391	7,069	8,117	8,976
Industry	1,954	2,606	2,760	3,103	3,570	4,064	4,388	4,970	5,453
Transport	34	52	62	76	74	80	83	87	94
Residential & Commercial	810	1,344	1,489	1,599	1,802	2,136	2,472	2,935	3,027
Agriculture	17	45	52	65	72	112	126	125	153

Major Energy Indicators of Republic of Korea (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
113,418	126,401	133,453	146,211	159,950	171,467	158,496	174,668	187,605	190,224	199,445	214,313
20,267	19,705	18,817	20,384	21,829	22,481	25,762	30,981	32,783	33,667	35,839	39,033
110,444	126,121	134,726	147,617	167,029	188,303	178,960	190,851	204,101	203,426	200,488	204,323
-13,080	-14,616	-13,099	-16,856	-21,552	-31,318	-39,946	-40,244	-41,398	-39,892	-32,081	-28,379
90,167	99,131	106,007	115,696	124,807	132,492	124,565	136,465	143,185	146,000	153,250	156,671
44,379	48,657	52,324	54,864	58,844	62,436	65,624	70,206	73,922	74,474	78,238	80,020
17,609	20,069	22,673	25,798	28,310	30,482	24,881	27,201	29,406	30,323	32,081	32,904
23,616	25,911	26,095	29,681	31,576	32,946	27,342	32,495	32,931	33,711	35,183	36,214
2,181	2,442	2,828	3,078	3,305	3,626	3,178	3,670	3,888	4,175	4,131	3,615
24,233	26,841	27,567	29,598	31,244	32,811	33,791	34,291	40,290	42,273	44,369	45,257
5,117	4,037	3,180	2,445	2,117	1,929	1,864	1,794	1,774	1,632	1,418	1,410
18,825	22,512	24,668	27,509	29,304	31,208	32,155	32,689	38,531	40,556	42,740	43,599
-	-	-	-	-	-	-	-	-	-	-	-
-4,683	-6,483	-8,560	-9,816	-12,807	-15,088	-16,994	-18,674	-21,911	-23,920	-26,093	-26,103
-4,683	-6,483	-8,560	-9,816	-12,807	-15,088	-16,994	-18,674	-21,911	-23,920	-26,093	-26,103
17,753	18,105	16,786	16,870	17,782	17,971	17,244	17,573	18,855	19,506	20,548	21,479
12,718	14,561	14,633	15,432	16,785	17,232	16,576	16,953	18,173	18,815	19,885	20,793
-	-	-	-	-	-	-	-	-	-	-	-
5,035	3,545	2,153	1,439	997	740	668	620	682	690	662	686
-	-	-	-	-	-	-	-	-	-	-	-
70,800	77,723	78,458	87,871	100,331	121,527	114,212	121,656	124,320	119,431	110,573	111,254
-	-	-	-	-	-	-	-	-	-	-	-
70,905	78,005	79,835	86,904	100,459	121,539	113,980	121,633	124,396	119,585	110,070	111,993
-	-	-	-	-	-	-	-	-	-	-	-
-71,078	-75,695	-78,047	-87,735	-100,309	-121,339	-120,436	-121,446	-123,890	-119,635	-109,487	-108,951
-71,078	-75,695	-78,047	-87,735	-100,309	-121,339	-120,436	-121,446	-123,890	-119,635	-109,487	-108,951
-823	992	4,925	2,511	-2,270	-16,753	-25,899	-25,631	-25,008	-22,256	-10,722	-2,179
16,706	20,394	23,288	24,944	26,040	21,950	20,423	21,350	24,119	24,373	27,238	25,993
-13,080	-14,616	-13,099	-16,856	-21,552	-31,318	-39,946	-40,244	-41,398	-39,892	-32,081	-28,379
61,137	66,224	68,860	77,543	88,248	109,693	110,714	116,630	116,117	113,035	106,596	104,851
-7,754	-7,373	-8,403	-9,355	-9,539	-8,624	-3,459	-3,810	-6,054	-6,501	-5,786	-5,592
69,489	74,404	78,200	88,066	98,871	119,037	114,557	120,857	122,466	119,712	112,538	110,530
60,363	66,956	73,266	79,108	84,278	89,061	82,239	88,202	88,947	88,762	91,496	91,508
25,444	27,292	30,004	30,653	32,135	34,209	38,404	39,408	39,771	39,050	40,531	40,564
17,508	19,960	22,549	25,659	28,165	30,331	24,745	27,052	29,231	30,122	31,814	32,572
13,295	15,400	16,049	18,103	18,623	18,681	13,133	15,983	13,901	13,111	12,513	11,936
1,995	2,251	2,577	2,787	2,974	3,266	2,832	3,277	3,420	3,640	3,585	3,083
4,058	5,177	6,866	8,292	10,933	13,330	12,493	15,164	16,995	18,740	20,805	22,358
-	-	-	-	-	-	-	-	-	-	-	-
4,008	5,211	6,936	8,260	11,226	13,606	12,402	15,178	17,056	18,912	20,440	22,738
-	-	-	-	-	-	-	-	-	-	-	-
-2,126	-2,361	-3,252	-3,338	-4,774	-6,098	-4,935	-5,703	-5,981	-6,967	-8,199	-7,667
-2,603	-2,946	-3,969	-4,231	-5,565	-6,466	-4,902	-5,770	-5,460	-6,385	-7,821	-7,567
1,997	2,725	3,651	5,034	6,243	7,284	7,583	9,461	11,536	11,961	13,110	13,923
339	414	540	776	1,076	1,346	1,630	2,276	3,153	3,230	3,569	3,739
-	-	-	-	-	-	-	-	-	7	72	131
1,658	2,311	3,111	4,258	5,167	5,938	5,952	7,184	8,372	8,704	9,453	10,033
0	0	0	0	0	0	0	1	11	20	17	21
11,263	12,421	14,189	15,881	17,672	19,302	18,516	20,582	22,910	24,529	26,357	27,729
5,983	6,905	8,793	9,645	10,868	12,210	10,278	11,197	13,057	14,529	15,657	15,986
418	517	352	471	447	463	525	522	482	357	457	592
4,862	5,000	5,044	5,764	6,357	6,629	7,713	8,864	9,371	9,643	10,243	11,151
9,911	10,985	11,843	14,041	15,692	17,267	16,638	18,422	20,600	22,165	23,947	25,250
5,878	6,390	7,147	8,004	8,848	9,650	9,013	10,001	10,918	11,163	11,894	12,422
101	108	124	138	145	151	136	149	175	194	195	200
3,485	4,296	4,321	5,241	5,978	6,679	6,728	7,470	8,636	9,815	10,765	11,551
186	191	251	290	332	359	346	393	456	515	529	511

Major Economic Indicators of Republic of Korea

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	38.12	40.41	40.81	41.18	41.58	41.98	42.38	42.87
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	153.77	209.81	224.08	247.88	275.40	304.71	325.26	355.04
Real Term (Billions of 1995 Price and 1995 PPP)	157.82	215.34	229.99	254.41	282.66	312.74	333.83	364.39
Nominal (Billions of Current USD)	63.83	93.21	96.62	111.30	140.01	187.45	230.47	263.78
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	4,033	5,193	5,491	6,019	6,624	7,259	7,675	8,282
Real Term (1995 Price and 1995 PPP)	4,140	5,329	5,636	6,177	6,799	7,451	7,877	8,500
Nominal (Current USD)	1,674	2,307	2,368	2,703	3,368	4,466	5,438	6,153
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	38,775	75,126	84,061	98,110	115,164	137,112	154,753	186,691
Household Final Consumption Expenditure, etc.	24,251	42,894	47,600	52,555	58,705	67,472	79,045	94,968
General Government Final Consumption Expenditure	4,825	8,356	9,426	10,769	12,334	14,744	17,819	22,054
Gross Fixed Capital Formation	12,492	21,909	24,187	27,891	33,830	40,930	49,794	69,234
Stock Change	-158	836	1,003	677	1,065	2,091	2,713	801
Exports of Goods and Services	12,433	25,068	26,876	34,969	44,075	49,938	47,657	52,187
Imports of Goods and Services	15,496	25,275	26,379	30,001	35,931	40,144	44,470	54,195
Real GDP & its Components (Billions of 1995 KRW) *1								
Gross Domestic Product	138,898	189,516	202,408	223,902	248,764	275,235	293,799	320,696
Household Final Consumption Expenditure, etc.	86,397	113,971	121,937	132,396	142,657	154,704	170,264	185,863
General Government Final Consumption Expenditure	24,615	28,323	29,372	31,400	33,613	36,804	40,196	44,754
Gross Fixed Capital Formation	35,783	50,168	52,813	58,901	69,557	79,032	91,670	114,989
Stock Change	205	1,986	1,603	1,132	1,369	3,658	4,697	469
Exports of Goods and Services	19,915	30,900	32,184	40,815	49,705	55,502	53,297	55,670
Imports of Goods and Services	27,351	35,907	36,124	42,782	51,149	58,174	68,328	77,742
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	11.2	10.6	10.3	9.8	8.4	8.3	7.7	6.6
Industry	28.6	31.5	31.2	32.3	33.8	33.8	33.6	34.9
Services, etc.	60.3	58.0	58.4	57.9	57.8	57.9	58.7	58.5
Industrial Production Index (2000=100) *2	14.3	22.5	23.5	28.4	33.9	38.4	39.6	43.1
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	17.512	29.245	30.282	34.715	47.281	60.696	62.377	65.016
Imports, c.i.f.	22.292	30.631	31.136	31.585	41.019	51.811	61.465	69.844
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.613	-1.089	-0.020	4.299	7.529	11.283	4.345	-2.461
Current Account	-5.312	-1.293	-0.795	4.709	10.058	14.505	5.344	-2.014
Overall Balance	0.184	0.385	0.211	0.034	2.100	9.327	3.410	-1.208
Foreign Exchange Rate (KRW/USD) *1	607.43	805.98	870.02	881.45	822.57	731.47	671.46	707.76
Purchasing Power Parity (KRW/International Dollar) *1	413.35	466.66	473.15	489.71	507.76	531.61	544.09	579.77
Price Indices								
GDP Deflator (2000=100) *3	27.9	39.6	41.5	43.8	46.3	49.8	52.7	58.2
Producer Price Index (2000=100)*2	51.7	65.7	66.3	65.3	65.6	67.4	68.4	71.3
Consumer Price Index (2000=100) *2	33.2	45.7	46.8	48.1	49.6	53.1	56.1	60.9
Growth Rate (%) *3								
Real GDP	-1.49	8.10	6.80	10.62	11.10	10.64	6.74	9.16
Population	1.57	1.24	0.99	0.93	0.95	0.96	0.96	1.15
Price								
Producer Price Index	38.9	0.7	0.9	-1.5	0.5	2.7	1.5	4.2
Consumer Price Index	28.7	2.3	2.5	2.8	3.0	7.1	5.7	8.6

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"
: KRW shows Won, USD shows United States Dollar
: PPP shows Purchasing Power Parity

Major Economic Indicators of Republic of Korea (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
43.27	43.66	44.06	44.45	45.09	45.53	45.95	46.29	46.62	47.01	47.34	47.64	47.91
388.39	411.21	436.43	473.68	517.12	553.31	579.04	539.35	590.52	640.63	665.21	711.57	733.41
398.62	422.04	447.93	486.17	530.75	567.89	594.30	553.57	606.08	657.51	682.74	730.33	752.74
308.18	329.89	362.14	423.44	517.12	557.64	516.28	345.43	445.40	511.66	481.89	546.93	605.35
8,976	9,418	9,906	10,656	11,468	12,154	12,600	11,652	12,667	13,628	14,051	14,936	15,308
9,213	9,666	10,167	10,937	11,770	12,474	12,933	11,959	13,001	13,987	14,421	15,330	15,711
7,123	7,555	8,220	9,525	11,468	12,249	11,235	7,463	9,554	10,885	10,179	11,481	12,635
226,008	257,525	290,676	340,208	398,838	448,596	491,135	484,103	529,500	578,665	622,123	684,264	721,346
114,757	131,979	149,686	177,904	208,462	236,194	258,636	238,811	274,934	312,301	343,417	381,063	388,417
26,303	31,022	34,413	38,942	44,687	52,139	56,749	61,981	65,174	70,098	80,298	88,512	96,180
87,889	95,001	105,623	123,899	148,820	168,157	174,961	146,914	157,407	179,908	183,792	199,048	213,844
1,908	1,034	-1,760	1,825	1,411	6,225	1,706	-25,903	-3,199	-495	-1,315	-42	-1,868
59,515	68,477	77,112	90,624	114,978	124,988	159,091	223,482	206,842	236,210	235,187	241,209	275,316
65,518	71,459	75,975	93,149	119,336	140,574	162,056	161,180	171,437	217,979	220,914	231,765	257,118
350,820	371,433	394,216	427,868	467,099	499,790	523,035	487,184	533,399	578,665	600,866	642,748	662,474
202,047	214,238	227,144	246,270	270,628	288,862	298,385	258,317	288,026	312,301	327,685	353,560	348,542
47,663	51,194	54,053	56,295	59,127	63,846	65,526	67,045	68,991	70,098	73,507	77,924	80,774
131,589	132,313	142,537	160,341	181,345	196,550	192,034	147,992	160,336	179,908	179,576	191,465	198,379
2,546	2,274	-2,003	2,858	-1,644	2,039	-3,930	-17,426	1,744	-495	-243	-1,567	-5,559
61,834	69,381	77,814	90,483	112,547	126,238	153,539	172,965	198,256	236,210	229,764	260,221	301,172
92,240	97,204	102,993	124,954	153,631	175,634	181,706	142,073	181,564	217,979	208,899	240,665	263,908
6.1	6.3	5.6	5.2	5.0	4.8	4.8	4.8	4.6	4.3	4.2	3.8	3.4
35.2	34.1	34.3	34.6	34.8	34.9	34.8	34.3	35.1	36.2	35.9	35.8	36.6
58.7	59.6	60.1	60.3	60.2	60.4	60.4	60.9	60.2	59.5	59.8	60.4	60.0
47.3	50.0	52.2	58.0	64.9	70.4	73.7	69.0	85.6	100.0	100.7	108.8	114.2
71.870	76.632	82.236	96.013	125.058	129.715	136.164	132.313	143.686	172.267	150.439	162.470	193.817
81.525	81.775	83.800	102.348	135.119	150.339	144.616	93.282	119.752	160.481	141.098	152.126	178.827
-6.904	-1.907	2.150	-3.017	-4.365	-15.077	-3.256	41.665	28.463	16.954	13.488	14.777	21.952
-8.417	-4.095	0.821	-4.024	-8.665	-23.210	-8.384	40.371	24.522	12.251	8.033	5.394	11.950
-1.147	3.724	3.009	4.614	7.039	1.416	-22.979	25.930	33.260	23.790	13.278	11.769	25.791
733.35	780.65	802.67	803.45	771.27	804.45	951.29	1,401.44	1,188.82	1,130.96	1,290.99	1,251.09	1,191.61
619.41	651.56	677.10	714.70	751.47	774.85	796.05	824.10	815.37	809.77	821.04	833.85	837.76
64.4	69.3	73.7	79.5	85.4	89.8	93.9	99.4	99.3	100.0	103.5	106.5	108.9
74.6	79.2	77.4	79.5	83.2	85.9	89.2	100.1	98.0	100.0	99.5	99.2	101.4
66.6	70.8	74.2	78.8	82.3	86.4	90.2	97.0	97.8	100.0	104.1	106.9	110.7
9.39	5.88	6.13	8.54	9.17	7.00	4.65	-6.85	9.49	8.49	3.84	6.97	3.07
0.93	0.91	0.90	0.90	1.44	0.96	0.94	0.72	0.71	0.84	0.71	0.63	0.57
4.7	6.2	-2.3	2.7	4.7	3.2	3.8	12.2	-2.1	2.0	-0.5	-0.3	2.2
9.3	6.3	4.7	6.3	4.5	4.9	4.4	7.5	0.8	2.3	4.1	2.7	3.6

Original Table (Energy Demand and Supply) of Republic of Korea in 2003

Year:2003

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	3,298.00	kt	0.4275	ktoe/kt	1,409.90	ktoe
ANTHRACITE	3,298.00	kt	0.4275	ktoe/kt	1,409.90	ktoe
HYDRO POWER	6,887.00	GWh	0.0860	ktoe/GWh	592.28	ktoe
NUCLEAR POWER	129,659.00	GWh	0.2606	ktoe/GWh	33,789.92	ktoe
OTHERS	3,240.71	kt	1.0000	ktoe/kt	3,240.71	ktoe
TOTAL PRODUCTION					39,032.81	ktoe
OPENING STOCKS						
COAL	10,101.00	kt	0.4391	ktoe/kt	4,434.89	ktoe
ANTHRACITE	10,101.00	kt	0.4391	ktoe/kt	4,434.89	ktoe
CRUDE OIL AND NGL/CONDENSATE	9,032.00	kbbbl	0.1392	ktoe/kbbbl	1,256.84	ktoe
CRUDE OIL	9,032.00	kbbbl	0.1392	ktoe/kbbbl	1,256.84	ktoe
LPG	4,790.34	kbbbl	0.0973	ktoe/kbbbl	465.92	ktoe
NAPHTHA	7,622.65	kbbbl	0.1208	ktoe/kbbbl	921.00	ktoe
MOGAS	3,408.78	kbbbl	0.1254	ktoe/kbbbl	427.32	ktoe
JET FUEL	2,329.12	kbbbl	0.1314	ktoe/kbbbl	306.04	ktoe
KEROSENE	4,918.98	kbbbl	0.1314	ktoe/kbbbl	646.35	ktoe
DIESEL OIL	7,105.85	kbbbl	0.1390	ktoe/kbbbl	987.36	ktoe
FUEL OIL	11,606.52	kbbbl	0.1494	ktoe/kbbbl	1,733.51	ktoe
OTHER PETROLEUM PRODUCTS	1,501.58	kbbbl	0.1403	ktoe/kbbbl	210.67	ktoe
NATURAL GAS AND LNG	737.98	kt	1.1700	ktoe/kt	863.43	ktoe
LNG	737.98	kt	1.1700	ktoe/kt	863.43	ktoe
TOTAL OPENING STOCKS					12,253.34	ktoe
CLOSING STOCKS						
COAL	9,527.00	kt	0.4395	ktoe/kt	4,186.65	ktoe
ANTHRACITE	9,527.00	kt	0.4395	ktoe/kt	4,186.65	ktoe
CRUDE OIL AND NGL/CONDENSATE	14,339.00	kbbbl	0.1392	ktoe/kbbbl	1,995.33	ktoe
CRUDE OIL	14,339.00	kbbbl	0.1392	ktoe/kbbbl	1,995.33	ktoe
LPG	5,391.18	kbbbl	0.0964	ktoe/kbbbl	519.58	ktoe
NAPHTHA	5,877.76	kbbbl	0.1208	ktoe/kbbbl	710.19	ktoe
MOGAS	3,322.90	kbbbl	0.1254	ktoe/kbbbl	416.55	ktoe
JET FUEL	2,513.40	kbbbl	0.1314	ktoe/kbbbl	330.26	ktoe
KEROSENE	6,149.43	kbbbl	0.1314	ktoe/kbbbl	808.03	ktoe
DIESEL OIL	7,306.40	kbbbl	0.1390	ktoe/kbbbl	1,015.23	ktoe
FUEL OIL	10,250.94	kbbbl	0.1493	ktoe/kbbbl	1,530.63	ktoe
OTHER PETROLEUM PRODUCTS	1,170.75	kbbbl	0.1374	ktoe/kbbbl	160.80	ktoe
NATURAL GAS AND LNG	1,063.10	kt	1.1700	ktoe/kt	1,243.82	ktoe
LNG	1,063.10	kt	1.1700	ktoe/kt	1,243.82	ktoe
TOTAL CLOSING STOCKS					12,917.08	ktoe
STOCK CHANGE						
COAL	574.00	kt	0.4325	ktoe/kt	248.24	ktoe
ANTHRACITE	574.00	kt	0.4325	ktoe/kt	248.24	ktoe
CRUDE OIL AND NGL/CONDENSATE	-5,307.00	kbbbl	0.1392	ktoe/kbbbl	-738.49	ktoe
CRUDE OIL	-5,307.00	kbbbl	0.1392	ktoe/kbbbl	-738.49	ktoe
LPG	-600.84	kbbbl	0.0893	ktoe/kbbbl	-53.66	ktoe
NAPHTHA	1,744.89	kbbbl	0.1208	ktoe/kbbbl	210.81	ktoe
MOGAS	85.88	kbbbl	0.1254	ktoe/kbbbl	10.77	ktoe
JET FUEL	-184.29	kbbbl	0.1314	ktoe/kbbbl	-24.22	ktoe
KEROSENE	-1,230.45	kbbbl	0.1314	ktoe/kbbbl	-161.68	ktoe
DIESEL OIL	-200.55	kbbbl	0.1390	ktoe/kbbbl	-27.87	ktoe
FUEL OIL	1,355.58	kbbbl	0.1497	ktoe/kbbbl	202.88	ktoe
OTHER PETROLEUM PRODUCTS	330.82	kbbbl	0.1507	ktoe/kbbbl	49.87	ktoe
NATURAL GAS AND LNG	-325.12	kt	1.1700	ktoe/kt	-380.39	ktoe
LNG	-325.12	kt	1.1700	ktoe/kt	-380.39	ktoe
TOTAL STOCK CHANGE					-663.74	ktoe
IMPORTS						
COAL	69,958.10	kt	0.6232	ktoe/kt	43,599.25	ktoe
HARD COAL	65,318.10	kt	0.6270	ktoe/kt	40,954.45	ktoe
STEAM COAL	47,642.10	kt	0.6270	ktoe/kt	29,871.60	ktoe
COKING COAL	17,676.00	kt	0.6270	ktoe/kt	11,082.85	ktoe
ANTHRACITE	4,640.00	kt	0.5700	ktoe/kt	2,644.80	ktoe
CRUDE OIL AND NGL/CONDENSATE	804,809.00	kbbbl	0.1392	ktoe/kbbbl	111,992.52	ktoe
CRUDE OIL	804,809.00	kbbbl	0.1392	ktoe/kbbbl	111,992.52	ktoe
LPG	50,800.97	kbbbl	0.0954	ktoe/kbbbl	4,847.41	ktoe
NAPHTHA	131,981.07	kbbbl	0.1208	ktoe/kbbbl	15,946.84	ktoe
MOGAS	2,061.14	kbbbl	0.1254	ktoe/kbbbl	258.38	ktoe
JET FUEL	3,457.29	kbbbl	0.1314	ktoe/kbbbl	454.28	ktoe
AVGAS	2.18	kbbbl	0.1314	ktoe/kbbbl	0.29	ktoe
KEROSENE	6,623.91	kbbbl	0.1314	ktoe/kbbbl	870.38	ktoe
DIESEL OIL	11,140.84	kbbbl	0.1390	ktoe/kbbbl	1,548.03	ktoe
FUEL OIL	13,829.42	kbbbl	0.1495	ktoe/kbbbl	2,067.29	ktoe
NATURAL GAS AND LNG	19,434.22	kt	1.1700	ktoe/kt	22,738.04	ktoe
LNG	19,434.22	kt	1.1700	ktoe/kt	22,738.04	ktoe
TOTAL IMPORTS					204,322.70	ktoe
EXPORTS						
LPG	2,893.98	kbbbl	0.0964	ktoe/kbbbl	279.12	ktoe
NAPHTHA	30,970.31	kbbbl	0.1208	ktoe/kbbbl	3,742.04	ktoe
MOGAS	13,537.82	kbbbl	0.1254	ktoe/kbbbl	1,697.07	ktoe
JET FUEL	27,657.82	kbbbl	0.1314	ktoe/kbbbl	3,634.21	ktoe
KEROSENE	13,143.83	kbbbl	0.1314	ktoe/kbbbl	1,727.09	ktoe

Original Table (Energy Demand and Supply) of Republic of Korea in 2003 (Continued)

Year:2003

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
DIESEL OIL	60,817.13	kbbbl	0.1390	ktoe/kbbbl	8,450.38	ktoe
FUEL OIL	45,835.46	kbbbl	0.1495	ktoe/kbbbl	6,853.46	ktoe
OTHER PETROLEUM PRODUCTS	14,222.31	kbbbl	0.1403	ktoe/kbbbl	1,995.40	ktoe
TOTAL EXPORTS					28,378.97	ktoe
INTERNATIONAL MARINE BUNKERS						ktoe
TOTAL PRIMARY ENERGY SUPPLY					214,312.79	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
ANTHRACITE	1,191.00	kt	0.5759	ktoe/kt	685.85	ktoe
REFINING						
CRUDE OIL AND NGL/CONDENSATE	782,951.00	kbbbl	0.1392	ktoe/kbbbl	108,950.89	ktoe
CRUDE OIL	782,951.00	kbbbl	0.1392	ktoe/kbbbl	108,950.89	ktoe
GAS PROCESSING						
LPG	926.14	kbbbl	0.0925	ktoe/kbbbl	85.63	ktoe
LNG	18,610.50	kt	0.7530	ktoe/kt	14,014.34	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
COAL	44,341.40	kt	0.5887	ktoe/kt	26,102.89	ktoe
HARD COAL	44,341.40	kt	0.5887	ktoe/kt	26,102.89	ktoe
STEAM COAL	44,341.40	kt	0.5887	ktoe/kt	26,102.89	ktoe
LPG	0.57	kbbbl	0.0921	ktoe/kbbbl	0.05	ktoe
DIESEL OIL	4,064.45	kbbbl	0.0788	ktoe/kbbbl	320.25	ktoe
FUEL OIL	35,259.94	kbbbl	0.1495	ktoe/kbbbl	5,272.17	ktoe
NATURAL GAS AND LNG	6,467.88	kt	1.1700	ktoe/kt	7,567.42	ktoe
LNG	6,467.88	kt	1.1700	ktoe/kt	7,567.42	ktoe
HYDRO POWER	6,887.00	GWh	0.0860	ktoe/GWh	592.28	ktoe
NUCLEAR POWER	129,659.00	GWh	0.2606	ktoe/GWh	33,789.92	ktoe
OTHERS	30.26	kt	1.0000	ktoe/kt	30.26	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
BRIQUETTES	1,191.00	kt	0.5759	ktoe/kt	685.85	ktoe
REFINING						
LPG	38,125.88	kbbbl	0.1002	ktoe/kbbbl	3,820.61	ktoe
NAPHTHA	148,922.73	kbbbl	0.1208	ktoe/kbbbl	17,993.84	ktoe
MOGAS	73,047.86	kbbbl	0.1254	ktoe/kbbbl	9,157.11	ktoe
JET FUEL	55,065.12	kbbbl	0.1314	ktoe/kbbbl	7,235.50	ktoe
KEROSENE	63,338.10	kbbbl	0.1314	ktoe/kbbbl	8,322.57	ktoe
DIESEL OIL	202,677.23	kbbbl	0.1390	ktoe/kbbbl	28,162.15	ktoe
FUEL OIL	204,000.25	kbbbl	0.1493	ktoe/kbbbl	30,465.10	ktoe
OTHER PETROLEUM PRODUCTS	41,070.29	kbbbl	0.1308	ktoe/kbbbl	5,372.64	ktoe
GAS RECOVERING						
TOWN GAS	14,950.00	Mm ³	0.9450	ktoe/Mm ³	14,127.75	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	322,429.00	GWh	0.0860	ktoe/GWh	15,985.94	ktoe
HYDRO POWER	185,883.00	GWh	0.0860	ktoe/GWh	592.28	ktoe
NUCLEAR POWER	6,887.00	GWh	0.0860	ktoe/GWh	11,150.67	ktoe
HEAT	129,659.00	GWh	0.0860	ktoe/GWh	11,150.67	ktoe
HEAT	1,345.35	kt	1.0000	ktoe/kt	1,345.35	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
NATURAL GAS AND LNG	164.54	kt	1.1700	ktoe/kt	192.52	ktoe
LNG	164.54	kt	1.1700	ktoe/kt	192.52	ktoe
TOWN GAS	21.33	Mm ³	0.9450	ktoe/Mm ³	20.16	ktoe
ELECTRICITY	28,829.78	GWh	0.0860	ktoe/GWh	2,479.36	ktoe
HEAT	44.86	kt	1.0000	ktoe/kt	44.86	ktoe
TOTAL LOSSES AND OWN USE					2,736.89	ktoe
FINAL ENERGY CONSUMPTION TOTAL						
COAL	33,588.08	kt	0.6191	ktoe/kt	20,793.20	ktoe
HARD COAL	28,908.08	kt	0.6270	ktoe/kt	18,125.36	ktoe
STEAM COAL	8,399.48	kt	0.6270	ktoe/kt	5,266.47	ktoe
COKING COAL	20,508.60	kt	0.6270	ktoe/kt	12,858.89	ktoe
ANTHRACITE	4,680.00	kt	0.5701	ktoe/kt	2,667.84	ktoe
BRIQUETTES	1,191.00	kt	0.5759	ktoe/kt	685.85	ktoe
LPG	87,679.17	kbbbl	0.0981	ktoe/kbbbl	8,597.76	ktoe
NAPHTHA	252,416.61	kbbbl	0.1208	ktoe/kbbbl	30,498.67	ktoe
MOGAS	60,483.67	kbbbl	0.1254	ktoe/kbbbl	7,582.09	ktoe
JET FUEL	20,575.72	kbbbl	0.1314	ktoe/kbbbl	2,703.63	ktoe
AVGAS	2.00	kbbbl	0.1314	ktoe/kbbbl	0.26	ktoe
KEROSENE	51,095.34	kbbbl	0.1314	ktoe/kbbbl	6,713.88	ktoe
DIESEL OIL	143,051.92	kbbbl	0.1390	ktoe/kbbbl	19,877.17	ktoe
FUEL OIL	80,561.75	kbbbl	0.1492	ktoe/kbbbl	12,020.17	ktoe
OTHER PETROLEUM PRODUCTS	26,790.07	kbbbl	0.1252	ktoe/kbbbl	3,353.31	ktoe
TOWN GAS	14,733.66	Mm ³	0.9450	ktoe/Mm ³	13,923.31	ktoe
HEAT	1,300.50	kt	1.0000	ktoe/kt	1,300.50	ktoe
ELECTRICITY	293,599.22	GWh	0.0860	ktoe/GWh	25,249.53	ktoe
OTHERS	3,210.45	kt	1.0000	ktoe/kt	3,210.45	ktoe
TOTAL					156,509.77	ktoe
AGRICULTURE						
LPG	55.35	kbbbl	0.0927	ktoe/kbbbl	5.13	ktoe
MOGAS	1,653.23	kbbbl	0.1254	ktoe/kbbbl	207.25	ktoe
KEROSENE	3,799.71	kbbbl	0.1314	ktoe/kbbbl	499.28	ktoe
DIESEL OIL	15,523.77	kbbbl	0.1390	ktoe/kbbbl	2,157.04	ktoe

Original Table (Energy Demand and Supply) of Republic of Korea in 2003 (Continued)

Year:2003

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	1,461.95	kbbbl	0.1462	ktoe/kbbbl	213.68	ktoe
OTHER PETROLEUM PRODUCTS	4.00	kbbbl	0.1252	ktoe/kbbbl	0.50	ktoe
TOWN GAS	22.13	Mm ³	0.9450	ktoe/Mm ³	20.91	ktoe
ELECTRICITY	5,943.53	GWh	0.0860	ktoe/GWh	511.14	ktoe
TOTAL					3,614.93	ktoe
RESIDENTIAL COMMERCIAL						
BRIQUETTES	1,191.00	kt	0.5759	ktoe/kt	685.85	ktoe
LPG	28,446.67	kbbbl	0.0924	ktoe/kbbbl	2,628.48	ktoe
MOGAS	620.59	kbbbl	0.1254	ktoe/kbbbl	77.80	ktoe
JET FUEL	4,812.10	kbbbl	0.1314	ktoe/kbbbl	632.31	ktoe
KEROSENE	44,923.12	kbbbl	0.1314	ktoe/kbbbl	5,902.86	ktoe
DIESEL OIL	11,807.73	kbbbl	0.1390	ktoe/kbbbl	1,640.69	ktoe
FUEL OIL	6,017.41	kbbbl	0.1488	ktoe/kbbbl	895.14	ktoe
OTHER PETROLEUM PRODUCTS	1,734.96	kbbbl	0.0915	ktoe/kbbbl	158.79	ktoe
TOWN GAS	10,616.48	Mm ³	0.9450	ktoe/Mm ³	10,032.58	ktoe
HEAT	1,300.50	kt	1.0000	ktoe/kt	1,300.50	ktoe
ELECTRICITY	134,318.50	GWh	0.0860	ktoe/GWh	11,551.39	ktoe
OTHERS	707.87	kt	1.0000	ktoe/kt	707.87	ktoe
TOTAL					36,214.24	ktoe
OTHERS						
ELECTRICITY	6,562.81	GWh	0.0860	ktoe/GWh	564.40	ktoe
TOTAL					564.40	ktoe
INDUSTRY						
COAL	33,588.08	kt	0.6191	ktoe/kt	20,793.20	ktoe
HARD COAL	28,908.08	kt	0.6270	ktoe/kt	18,125.36	ktoe
STEAM COAL	8,399.48	kt	0.6270	ktoe/kt	5,266.47	ktoe
COKING COAL	20,508.60	kt	0.6270	ktoe/kt	12,858.89	ktoe
ANTHRACITE	4,680.00	kt	0.5701	ktoe/kt	2,667.84	ktoe
LPG	18,457.46	kbbbl	0.0959	ktoe/kbbbl	1,769.76	ktoe
NAPHTHA	252,416.61	kbbbl	0.1208	ktoe/kbbbl	30,498.67	ktoe
MOGAS	360.56	kbbbl	0.1254	ktoe/kbbbl	45.20	ktoe
JET FUEL	15.00	kbbbl	0.1305	ktoe/kbbbl	1.96	ktoe
KEROSENE	2,183.05	kbbbl	0.1314	ktoe/kbbbl	286.85	ktoe
DIESEL OIL	5,601.62	kbbbl	0.1390	ktoe/kbbbl	778.35	ktoe
FUEL OIL	48,103.39	kbbbl	0.1493	ktoe/kbbbl	7,182.73	ktoe
TOWN GAS	3,956.32	Mm ³	0.9450	ktoe/Mm ³	3,738.73	ktoe
ELECTRICITY	144,443.40	GWh	0.0860	ktoe/GWh	12,422.13	ktoe
OTHERS	2,502.57	kt	1.0000	ktoe/kt	2,502.57	ktoe
TOTAL					80,020.15	ktoe
TRANSPORT						
LPG	40,719.69	kbbbl	0.1030	ktoe/kbbbl	4,194.38	ktoe
MOGAS	57,849.30	kbbbl	0.1254	ktoe/kbbbl	7,251.86	ktoe
JET FUEL	15,748.71	kbbbl	0.1314	ktoe/kbbbl	2,069.37	ktoe
AVGAS	2.12	kbbbl	0.1314	ktoe/kbbbl	0.28	ktoe
KEROSENE	189.46	kbbbl	0.1314	ktoe/kbbbl	24.89	ktoe
DIESEL OIL	110,118.80	kbbbl	0.1390	ktoe/kbbbl	15,301.09	ktoe
FUEL OIL	24,979.00	kbbbl	0.1493	ktoe/kbbbl	3,728.62	ktoe
OTHER PETROLEUM PRODUCTS	17.79	kbbbl	0.0831	ktoe/kbbbl	1.48	ktoe
TOWN GAS	138.72	Mm ³	0.9450	ktoe/Mm ³	131.09	ktoe
ELECTRICITY	2,330.98	GWh	0.0860	ktoe/GWh	200.46	ktoe
TOTAL					32,903.51	ktoe
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	25,032.93	kbbbl	0.1340	ktoe/kbbbl	3,353.31	ktoe
TOTAL NON-ENERGY USE					3,353.31	ktoe

Original Table (Energy Demand and Supply) of Republic of Korea in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	35080.7	
COAL	15931	
OIL	4526.45	
GAS*	14623.25	
HYDRO POWER	3876.779	
NUCLEAR POWER	15715.683	
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

Note: *All the combined cycle(C/C) includes into the Gas Power.

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

note: Thermal quantities are the recalculated values with a discount of national calorific figures by 5-10% according to energy source.
Source : Yearbook of Energy Statistics(MOCIE/KEEI), Statistics of Electric Power in Korea(KEPCO)

Original Table (Disaggregated Final Energy Demand) of Republic of Korea in 2003

2,003

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	20,508.60	kt	0.6270	ktoe/kt	12,858.89	ktoe
HARD COAL	20,508.60	kt	0.6270	ktoe/kt	12,858.89	ktoe
COKING COAL	20,508.60	kt	0.6270	ktoe/kt	12,858.89	ktoe
LPG	405.86	kbbbl	0.0983	ktoe/kbbbl	39.91	ktoe
KEROSENE	69.55	kbbbl	0.1314	ktoe/kbbbl	9.14	ktoe
DIESEL OIL	36.81	kbbbl	0.1390	ktoe/kbbbl	5.11	ktoe
FUEL OIL	3,518.56	kbbbl	0.1495	ktoe/kbbbl	525.95	ktoe
OTHER PETROLEUM PRODUCTS	100.82	kbbbl	0.0831	ktoe/kbbbl	8.37	ktoe
TOWN GAS	758.74	Mm ³	0.9450	ktoe/Mm ³	717.00	ktoe
ELECTRICITY	25,656.45	GWh	0.0860	ktoe/GWh	2,206.45	ktoe
TOTAL					16,370.84	ktoe
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	268.39	kt	0.6270	ktoe/kt	168.28	ktoe
HARD COAL	268.39	kt	0.6270	ktoe/kt	168.28	ktoe
STEAM COAL	268.39	kt	0.6270	ktoe/kt	168.28	ktoe
LPG	8,546.15	kbbbl	0.1439	ktoe/kbbbl	1,230.03	ktoe
NAPHTHA	252,409.22	kbbbl	0.1208	ktoe/kbbbl	30,497.78	ktoe
MOGAS	3.23	kbbbl	0.1254	ktoe/kbbbl	0.40	ktoe
KEROSENE	148.03	kbbbl	0.1314	ktoe/kbbbl	19.45	ktoe
DIESEL OIL	502.83	kbbbl	0.1390	ktoe/kbbbl	69.87	ktoe
FUEL OIL	10,516.78	kbbbl	0.1494	ktoe/kbbbl	1,571.71	ktoe
OTHER PETROLEUM PRODUCTS	8,971.92	kbbbl	0.1005	ktoe/kbbbl	901.56	ktoe
TOWN GAS	425.47	Mm ³	0.9450	ktoe/Mm ³	402.07	ktoe
ELECTRICITY	31,222.67	GWh	0.0860	ktoe/GWh	2,685.15	ktoe
TOTAL					37,545.89	ktoe
1.3 NON-FERROUS METALS						
LPG	305.40	kbbbl	0.0931	ktoe/kbbbl	28.43	ktoe
KEROSENE	59.48	kbbbl	0.1314	ktoe/kbbbl	7.82	ktoe
DIESEL OIL	34.33	kbbbl	0.1390	ktoe/kbbbl	4.77	ktoe
FUEL OIL	749.65	kbbbl	0.1489	ktoe/kbbbl	111.59	ktoe
OTHER PETROLEUM PRODUCTS	47.07	kbbbl	0.0831	ktoe/kbbbl	3.91	ktoe
TOTAL					156.51	ktoe
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	6,060.40	kt	0.6270	ktoe/kt	3,799.87	ktoe
HARD COAL	6,060.40	kt	0.6270	ktoe/kt	3,799.87	ktoe
STEAM COAL	6,060.40	kt	0.6270	ktoe/kt	3,799.87	ktoe
LPG	787.89	kbbbl	0.0960	ktoe/kbbbl	75.66	ktoe
NAPHTHA	7.39	kbbbl	0.1208	ktoe/kbbbl	0.89	ktoe
MOGAS	0.94	kbbbl	0.1254	ktoe/kbbbl	0.12	ktoe
KEROSENE	142.20	kbbbl	0.1314	ktoe/kbbbl	18.68	ktoe
DIESEL OIL	427.84	kbbbl	0.1390	ktoe/kbbbl	59.45	ktoe
FUEL OIL	5,076.46	kbbbl	0.1493	ktoe/kbbbl	757.90	ktoe
OTHER PETROLEUM PRODUCTS	540.91	kbbbl	0.1437	ktoe/kbbbl	77.74	ktoe
TOWN GAS	292.94	Mm ³	0.9450	ktoe/Mm ³	276.83	ktoe
ELECTRICITY	10,286.46	GWh	0.0860	ktoe/GWh	884.64	ktoe
TOTAL					5,951.67	ktoe
1.5 PAPER, PULP AND PRINTING						
LPG	95.94	kbbbl	0.0926	ktoe/kbbbl	8.89	ktoe
MOGAS	3.00	kbbbl	0.1254	ktoe/kbbbl	0.38	ktoe
KEROSENE	88.39	kbbbl	0.1314	ktoe/kbbbl	11.61	ktoe
DIESEL OIL	54.08	kbbbl	0.1390	ktoe/kbbbl	7.51	ktoe
FUEL OIL	6,987.33	kbbbl	0.1494	ktoe/kbbbl	1,043.74	ktoe
OTHER PETROLEUM PRODUCTS	4.54	kbbbl	0.0831	ktoe/kbbbl	0.38	ktoe
TOWN GAS	60.92	Mm ³	0.9450	ktoe/Mm ³	57.57	ktoe
ELECTRICITY	9,352.01	GWh	0.0860	ktoe/GWh	804.27	ktoe
TOTAL					1,933.98	ktoe
1.6 OTHER INDUSTRIES						
COAL	6,750.69	kt	0.5875	ktoe/kt	3,966.16	ktoe
HARD COAL	2,070.69	kt	0.6270	ktoe/kt	1,298.32	ktoe
STEAM COAL	2,070.69	kt	0.6270	ktoe/kt	1,298.32	ktoe
ANTHRACITE	4,680.00	kt	0.5701	ktoe/kt	2,667.84	ktoe
LPG	8,316.21	kbbbl	0.0465	ktoe/kbbbl	386.85	ktoe
MOGAS	353.30	kbbbl	0.1254	ktoe/kbbbl	44.29	ktoe
JET FUEL	14.81	kbbbl	0.1314	ktoe/kbbbl	1.95	ktoe
KEROSENE	1,675.42	kbbbl	0.1314	ktoe/kbbbl	220.15	ktoe
DIESEL OIL	4,545.73	kbbbl	0.1390	ktoe/kbbbl	631.63	ktoe
FUEL OIL	21,254.61	kbbbl	0.1492	ktoe/kbbbl	3,171.84	ktoe
OTHER PETROLEUM PRODUCTS	15,367.68	kbbbl	0.1432	ktoe/kbbbl	2,200.72	ktoe

Original Table (Disaggregated Final Energy Demand) of Republic of Korea in 2003 (Continued)

2003						
Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOWN GAS	2,418.26	Mm ³	0.9450	ktoe/Mm ³	2,285.26	ktoe
ELECTRICITY	67,925.81	GWh	0.0860	ktoe/GWh	5,841.62	ktoe
OTHERS	2,502.57	ktoe	1.0000	ktoe/ktoe	2,502.57	ktoe
TOTAL					21,253.03	ktoe
2 TRANSPORTATION SECTOR						
2.1 AIR						
LPG	4.59	kbbbl	0.0514	ktoe/kbbbl	0.24	ktoe
JET FUEL	15,748.71	kbbbl	0.1314	ktoe/kbbbl	2,069.37	ktoe
AVGAS	2.12	kbbbl	0.1314	ktoe/kbbbl	0.28	ktoe
KEROSENE	11.68	kbbbl	0.1314	ktoe/kbbbl	1.54	ktoe
DIESEL OIL	39.80	kbbbl	0.1390	ktoe/kbbbl	5.53	ktoe
FUEL OIL	4.00	kbbbl	0.1421	ktoe/kbbbl	0.57	ktoe
OTHER PETROLEUM PRODUCTS	9.86	kbbbl	0.0831	ktoe/kbbbl	0.82	ktoe
TOTAL					2,077.82	ktoe
2.2 ROAD						
LPG	87.11	kbbbl	48.1383	ktoe/kbbbl	4,193.14	ktoe
MOGAS	57,841.77	kbbbl	0.1254	ktoe/kbbbl	7,250.91	ktoe
KEROSENE	166.46	kbbbl	0.1314	ktoe/kbbbl	21.87	ktoe
DIESEL OIL	103,875.38	kbbbl	0.1390	ktoe/kbbbl	14,433.56	ktoe
FUEL OIL	64.21	kbbbl	0.1473	ktoe/kbbbl	9.46	ktoe
OTHER PETROLEUM PRODUCTS	3.62	kbbbl	0.0831	ktoe/kbbbl	0.30	ktoe
2.3 RAIL						
LPG	0.59	kbbbl	0.1477	ktoe/kbbbl	0.09	ktoe
KEROSENE	1.94	kbbbl	0.1314	ktoe/kbbbl	0.25	ktoe
DIESEL OIL	2,373.77	kbbbl	0.1390	ktoe/kbbbl	329.84	ktoe
FUEL OIL	4.95	kbbbl	0.1495	ktoe/kbbbl	0.74	ktoe
ELECTRICITY	2,330.98	GWh	0.0860	ktoe/GWh	200.46	ktoe
TOTAL					531.30	ktoe
2.4 INTERNAL NAVIGATION						
LPG	9.75	kbbbl	0.0944	ktoe/kbbbl	0.92	ktoe
MOGAS	7.52	kbbbl	0.1254	ktoe/kbbbl	0.94	ktoe
KEROSENE	9.39	kbbbl	0.1314	ktoe/kbbbl	1.23	ktoe
DIESEL OIL	3,829.86	kbbbl	0.1390	ktoe/kbbbl	532.16	ktoe
FUEL OIL	24,905.84	kbbbl	0.1493	ktoe/kbbbl	3,717.85	ktoe
OTHER PETROLEUM PRODUCTS	4.31	kbbbl	0.0831	ktoe/kbbbl	0.36	ktoe
TOTAL					4,253.47	ktoe
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
3.2 RESIDENTIAL						
BRIQUETTES	1,191.00	kt	0.5759	ktoe/kt	685.85	ktoe
LPG	28,446.67	kbbbl	0.0924	ktoe/kbbbl	2,628.48	ktoe
KEROSENE	44,923.12	kbbbl	0.1314	ktoe/kbbbl	5,902.86	ktoe
DIESEL OIL	11,807.73	kbbbl	0.1390	ktoe/kbbbl	1,640.69	ktoe
FUEL OIL	6,017.41	kbbbl	0.1488	ktoe/kbbbl	895.14	ktoe
OTHER PETROLEUM PRODUCTS	1,734.96	kbbbl	0.0915	ktoe/kbbbl	158.79	ktoe
TOWN GAS	10,616.48	Mm ³	0.9450	ktoe/Mm ³	10,032.58	ktoe
OTHER COMMERCIAL	707.87	kt	1.0000	ktoe/kt	707.87	ktoe
ELECTRICITY	134,318.50	GWh	0.0860	ktoe/GWh	11,551.39	ktoe
HEAT	1,300.50	ktoe	1.0000	ktoe/ktoe	1,300.50	ktoe
TOTAL					35,504.14	ktoe

Original Table (Energy Price) of Republic of Korea in 2003
 Year: 2003

Republic of Korea	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL	US\$/ton	33	
COKING COAL	US\$/ton	46	
CRUDE OIL	US\$/bbl	29	
PETROLEUM PRODUCTS			
LPG	US\$/bbl	26	
NAPHTHA	US\$/bbl	31	
MOGAS	US\$/bbl	34	
JET FUEL	US\$/bbl	38	
KEROSENE	US\$/bbl	37	
DIESEL OIL	US\$/bbl	34	
FUEL OIL	US\$/bbl	31	
NATURAL GAS (LNG)	US\$/ton	259	
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
LPG			
ELECTRICITY (INDUSTRY)			
ELECTRICITY (COMMERCIAL)			
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS			
TOWN GAS	won/m ³	448	average price
PETROLEUM PRODUCTS			
MOGAS	won/liter	1,295	unleaded gasoline
KEROSENE	won/liter	640	kerosene for boiler use
DIESEL OIL	won/liter	772	based on sulfur 0.043%
LPG	won/kg	980	propane price for residential use
ELECTRICITY (RESIDENTIAL)	won/kwh	75	average price

Source : Monthly petroleum statistics, KNOC, Monthly energy statistics, KEEI, Yearbook of energy statistics, MOCIE

Original Table (Quarterly) of Republic of Korea in 2004

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	256	7,384	-	-
	FEB.	281	4,455	-	-
	MAR.	300	7,205	-	-
	1st quarter	837	19,044	-	-
	APR.	291	6,405	-	-
	MAY.	253	6,351	-	-
	JUN.	232	5,901	-	-
	2nd quarter	776	18,657	-	-
	JUL.	254	6,623	-	-
	AUG.	265	7,022	-	-
	SEP.	244	5,368	-	-
	3rd quarter	763	19,013	-	-
	OCT.	287	6,789	-	-
	NOV.	287	6,318	-	-
	DEC.	262	6,536	-	-
	4th quarter	836	19,643	-	-
		3,212	76,356	-	-

Oil		Unit: 1,000bbl						
		Crude Oil			Petroleum Products			
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.		59,638		13,960	15,640	17,804	2,103
	FEB.		78,839		-10,441	17,991	18,784	-2,839
	MAR.		62,128		9,370	16,720	20,691	2,255
	1st quarter		200,605		12,889	50,351	57,279	1,519
	APR.		63,854		4,504	15,798	20,270	-2,335
	MAY.		66,246		1,029	15,794	24,347	-1,100
	JUN.		64,291		-1,721	18,157	9,384	-7,161
	2nd quarter		194,391		3,812	49,749	54,001	-10,597
	JUL.		62,577		-1,879	13,842	19,774	5,518
	AUG.		67,843		-521	14,651	18,193	-804
	SEP.		61,931		3,863	15,199	19,644	-750
	3rd quarter		192,351		1,463	43,692	57,610	3,963
	OCT.		75,211		-2,820	14,084	21,974	845
	NOV.		88,693		-15,164	15,603	19,870	-4,576
	DEC.		74,540		1,883	21,631	24,682	845
	4th quarter		238,444		-16,101	51,318	66,525	-2,886
		-	825,791	-	2,063	195,110	235,416	-8,001

Original Table (Quarterly) of Republic of Korea in 2004 (Continued)

		Unit: 1,000m ³			
		Natural Gas (or LNG)			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	2,517	-	-544
	FEB.	-	2,449	-	274
	MAR.	-	2,525	-	-127
	1st quarter	-	7,490	-	-396
	APR.	-	1,974	-	-198
	MAY.	-	1,374	-	401
	JUN.	-	1,285	-	-438
	2nd quarter	-	4,633	-	-235
	JUL.	-	1,142	-	158
	AUG.	-	1,023	-	68
	SEP.	-	1,651	-	-568
	3rd quarter	-	3,815	-	-342
	OCT.	-	1,968	-	-522
	NOV.	-	1,901	-	-22
	DEC.	-	2,288	-	216
	4th quarter	-	6,157	-	-328
		-	22,095	-	-1,301

		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	29,328	18,631	321	10,376	-	-	-
	FEB.	28,054	18,347	222	9,486	-	-	-
	MAR.	29,140	18,718	232	10,190	-	-	-
	1st quarter	86,522	55,696	775	30,052	-	-	-
	APR.	26,579	16,715	233	9,631	-	-	-
	MAY.	26,978	16,209	362	10,407	-	-	-
	JUN.	27,493	16,102	606	10,785	-	-	-
	2nd quarter	81,050	49,026	1,201	30,823	-	-	-
	JUL.	29,746	17,023	1,121	11,602	-	-	-
	AUG.	29,861	16,102	1,093	12,666	-	-	-
	SEP.	26,847	14,926	649	11,271	-	-	-
	3rd quarter	86,454	48,051	2,863	35,539	-	-	-
	OCT.	28,079	16,931	352	10,796	-	-	-
	NOV.	28,704	17,226	337	11,147	-	-	-
	DEC.	31,339	18,648	332	12,358	-	-	-
	4th quarter	88,122	52,805	1,021	34,301	-	-	-
		342,148	205,578	5,860	130,715	-	-	-

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.10 Malaysia

Energy Balance Table of Malaysia in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	107	-	37,026	-	-	-	-	-	-
2 Import	5,268	-	7,921	7,221	2,521	-	59	36	1,530
3 Export	-36	-	-18,747	-8,972	-44	-	-570	-984	-1,955
4 International Marine Bunkers	-	-	-	-72	-	-	-	-	-47
5 Stock Changes	378	-	242	434	66	-	19	22	234
6 Total Primary Energy Supply	5,717	-	26,442	-1,389	2,543	-	-492	-926	-238
7 Public Electricity	-4,104	-	-	-629	-	-	-	-	-340
8 Autoproducers of Electricity	-	-	-	-170	-	-	-	-	-170
9 Gas Processing	-	-	-	1,233	-	-	-	34	103
10 Petroleum Refineries	-	-	-25,449	22,576	4,584	-	2,367	983	9,062
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-261	-	-	-	-	-
13 Discrepancy	-401	-	-993	-184	233	-	-23	2	123
14 Total Final Energy Consumption	1,212	-	-	21,176	7,360	-	1,852	93	8,540
15 Industry Sector	1,212	-	-	4,812	5	-	-	28	3,426
16 Transport Sector	-	-	-	14,226	7,352	-	1,852	-	5,019
17 Other Sector	-	-	-	1,408	3	-	-	65	95
18 Agriculture	-	-	-	98	3	-	-	-	95
19 Residential & Commercial	-	-	-	1,310	-	-	-	65	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	730	-	-	-	-	-

Energy Balance Table of Malaysia in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	223	-	34,838	-	-	-	-	-	-
2 Import	3,442	-	7,317	7,220	2,514	-	25	103	1,457
3 Export	-37	-	-18,100	-8,158	-13	-	-945	-546	-1,439
4 International Marine Bunkers	-	-	-	-90	-	-	-	-	-66
5 Stock Changes	505	-	-989	270	-8	-	106	45	23
6 Total Primary Energy Supply	4,133	-	23,066	-758	2,493	-	-814	-398	-25
7 Public Electricity	-2,556	-	-	-1,839	-	-	-	-	-476
8 Autoproducers of Electricity	-	-	-	-172	-	-	-	-	-172
9 Gas Processing	-	-	-	1,949	-	-	-	31	118
10 Petroleum Refineries	-	-	-22,881	21,495	4,460	-	2,570	414	8,401
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-287	-	-	-	-	-
13 Discrepancy	-491	-	-185	250	-5	-	29	45	196
14 Total Final Energy Consumption	1,086	-	-	20,638	6,948	-	1,785	92	8,042
15 Industry Sector	1,086	-	-	4,884	5	-	-	27	3,268
16 Transport Sector	-	-	-	13,409	6,940	-	1,785	-	4,680
17 Other Sector	-	-	-	1,607	2	-	-	65	93
18 Agriculture	-	-	-	95	2	-	-	-	93
19 Residential & Commercial	-	-	-	1,512	-	-	-	65	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	735	-	-	-	-	-

Energy Balance Table of Malaysia in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	46,123	-	435	-	-	-	-	-	83,691
1,604	664	-	807	1,501	-	-	-	-	-	-	-	21,911
-1,728	-762	-	-2,929	-20,367	-	-	-	-	-	-17	-	-48,139
-25	-	-	-	-	-	-	-	-	-	-	-	-72
-15	12	-	96	-	-	-	-	-	-	-	-	1,054
-164	-86	-	-2,026	27,257	-	435	-	-	-	-17	-	58,445
-289	-	-	-	-10,893	-	-435	-	-	-	6,569	-	-9,492
-	-	-	-	-469	-	-	-	-	-	179	-	-460
-	790	-	306	-8,975	-	-	-	-	-	-	-	-7,742
1,763	932	262	2,623	-	-	-	-	-	-	-	-	-2,873
-	-	-	-	-	-	-	-	-	-	-	-	-
-2	-2	-257	-	-725	-	-	-	-	-	-183	-	-1,169
-53	-197	2	-271	-309	-	0	-	-	-	-235	-	-2,122
1,255	1,437	7	632	5,886	-	-	-	-	-	6,313	-	34,587
968	378	7	-	4,207	-	-	-	-	-	3,242	-	13,473
3	-	-	-	40	-	-	-	-	-	5	-	14,271
284	961	-	-	23	-	-	-	-	-	3,066	-	4,497
-	-	-	-	-	-	-	-	-	-	-	-	98
284	961	-	-	23	-	-	-	-	-	3,066	-	4,399
-	-	-	-	-	-	-	-	-	-	-	-	-
-	98	-	632	1,616	-	-	-	-	-	-	-	2,346

Energy Balance Table of Malaysia in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	45,002	-	456	-	-	-	-	-	80,519
2,326	329	-	466	-	-	-	-	-	-	-	-	17,979
-1,627	-1,345	-	-2,243	-18,901	-	-	-	-	-	-3	-	-45,199
-24	-	-	-	-	-	-	-	-	-	-	-	-90
20	6	-	78	-	-	-	-	-	-	-	-	-214
695	-1,010	-	-1,699	26,101	-	456	-	-	-	-3	-	52,995
-1,363	-	-	-	-12,424	-	-456	-	-	-	6,227	-	-11,048
-	-	-	-	-128	-	-	-	-	-	157	-	-143
-	1,504	-	296	-7,769	-	-	-	-	-	-	-	-5,820
2,332	897	294	2,127	-	-	-	-	-	-	-	-	-1,386
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-4	-283	-	-174	-	-	-	-	-	-299	-	-760
-74	155	-5	-91	37	-	0	-	-	-	-160	-	-549
1,590	1,542	6	633	5,643	-	-	-	-	-	5,922	-	33,289
1,204	374	6	-	3,824	-	-	-	-	-	3,059	-	12,853
4	-	-	-	28	-	-	-	-	-	4	-	13,441
381	1,066	-	-	15	-	-	-	-	-	2,859	-	4,481
-	-	-	-	-	-	-	-	-	-	-	-	95
381	1,066	-	-	15	-	-	-	-	-	2,859	-	4,386
-	-	-	-	-	-	-	-	-	-	-	-	-
-	102	-	633	1,775	-	-	-	-	-	-	-	2,510

Major Energy Indicators of Malaysia

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	10,553	14,110	14,110	16,130	16,314	17,174	18,992	20,972	25,630
Indigenous Production	16,072	31,216	32,137	38,280	39,167	41,881	45,139	46,529	50,738
Import	6,752	6,385	6,731	6,543	6,478	6,483	8,485	9,708	10,190
Export	-11,759	-23,352	-24,945	-28,728	-29,066	-31,186	-34,545	-35,090	-35,073
Final Energy Consumption	6,385	8,045	8,612	9,368	9,983	10,456	11,848	13,146	14,563
Industry	2,870	3,304	3,489	3,430	3,709	3,722	4,704	5,276	5,809
Transport	2,398	3,300	3,377	3,726	3,929	4,278	4,684	5,386	5,806
Residential & Commercial	826	1,099	1,123	1,233	1,297	1,435	1,495	1,646	1,747
Agriculture	-	-	-	-	-	-	-	-	130
Coal, Coal Products									
Primary Energy Supply	53	270	362	268	327	260	1,158	1,355	1,532
Indigenous Production	-	-	-	-	-	15	76	70	126
Import	53	270	362	268	327	260	1,093	1,424	1,407
Export	-	-	-	-	-	-15	-11	-28	-66
Transformation Sector	-	-	-	-	-	-71	-602	-813	-963
Power Generation	-	-	-	-	-	-71	-602	-813	-963
Final Energy Consumption	53	270	362	268	327	189	595	513	599
Industry	53	270	362	268	327	189	595	513	599
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	5,783	7,743	7,320	7,551	7,680	8,372	8,777	10,024	10,244
Indigenous Production	13,707	22,207	22,187	24,979	24,742	26,923	28,967	30,629	31,843
Import	4,034	2,690	2,302	2,113	1,892	2,012	1,901	2,244	2,044
Export	-11,619	-17,073	-17,338	-19,683	-18,784	-20,593	-22,090	-22,949	-23,444
Transformation Sector	-5,901	-7,721	-7,579	-7,548	-7,806	-8,449	-8,752	-9,980	-10,243
Petroleum Refineries	-5,901	-7,721	-7,579	-7,548	-7,806	-8,449	-8,752	-9,980	-10,243
Petroleum Products									
Primary Energy Supply	2,353	1,684	2,131	1,798	1,739	1,789	1,444	2,454	3,365
Import	2,658	3,418	4,062	4,162	4,259	4,211	5,490	6,031	6,728
Export	-132	-1,676	-1,949	-2,257	-2,425	-2,388	-3,960	-3,413	-3,272
Transformation Sector	3,185	4,722	4,736	5,259	5,662	5,982	6,871	7,236	7,532
Power Generation	-2,346	-2,672	-2,519	-2,452	-2,269	-2,284	-2,207	-2,989	-2,851
Petroleum Refineries	5,693	7,608	7,530	7,845	8,060	8,437	9,219	10,414	10,588
Final Energy Consumption	5,550	6,622	6,656	6,880	7,271	7,816	8,635	9,825	10,914
Industry	2,432	2,492	2,402	2,242	2,437	2,536	2,996	3,481	3,786
Transport	2,398	3,300	3,377	3,726	3,929	4,278	4,684	5,386	5,806
Residential & Commercial	429	488	472	513	528	612	642	729	725
Agriculture	-	-	-	-	-	-	-	-	130
Natural Gas, Town Gas									
Primary Energy Supply	2,237	4,112	3,971	6,162	6,147	6,271	7,181	6,801	10,112
Indigenous Production	2,245	8,715	9,629	12,950	14,002	14,455	15,645	15,487	18,390
Import	-	-	-	-	-	-	-	-	-
Export	-8	-4,603	-5,658	-6,788	-7,855	-8,184	-8,464	-8,686	-8,278
Transformation Sector	-2,202	-3,978	-3,985	-4,538	-4,963	-5,187	-5,967	-5,877	-9,152
Power Generation	-33	-81	-539	-703	-818	-990	-1,004	-1,361	-2,533
Final Energy Consumption	35	134	515	1,056	1,132	1,058	1,070	1,093	1,125
Industry	1	87	250	413	387	367	373	452	487
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	34	47	47	63	74	60	45	32	34
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	864	1,182	1,285	1,387	1,498	1,664	1,850	1,979	2,283
Thermal	744	888	964	1,036	1,075	1,176	1,399	1,636	1,904
Hydro	120	294	321	351	423	488	451	343	379
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	747	1,019	1,079	1,164	1,253	1,393	1,548	1,715	1,925
Industry	384	455	475	507	558	630	740	830	937
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	363	564	604	657	695	763	808	885	988
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Malaysia (Continued)

ktoe											
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
28,672	30,958	31,375	33,390	37,873	44,403	41,905	41,893	51,492	51,220	52,995	58,445
52,336	54,173	56,516	62,388	68,635	72,863	73,655	72,439	79,473	77,264	80,519	83,691
9,406	12,269	11,000	11,128	11,615	14,773	13,060	13,122	16,271	18,692	17,979	21,911
-34,225	-35,264	-35,400	-39,423	-42,384	-42,913	-43,714	-41,829	-43,637	-44,766	-45,199	-48,139
16,185	17,729	19,287	22,164	24,182	26,168	25,558	27,228	29,697	31,516	33,289	34,587
6,455	7,012	7,283	8,060	9,443	10,106	10,122	10,239	11,401	11,853	12,853	13,473
6,226	6,557	7,262	7,827	8,951	10,201	9,793	11,393	12,070	13,138	13,441	14,271
1,891	2,070	2,503	2,837	3,557	3,072	3,313	3,653	3,867	4,047	4,386	4,399
391	62	422	446	486	490	307	106	104	98	95	98
1,587	1,352	1,563	1,612	2,053	1,569	1,660	1,376	2,308	2,911	4,133	5,717
53	264	89	85	153	153	221	174	242	344	223	107
1,485	1,158	1,351	1,588	1,938	1,446	1,529	1,321	1,943	2,665	3,442	5,268
-60	-70	-40	-50	-15	-9	-7	-8	-19	-34	-37	-36
-968	-884	-925	-957	-950	-882	-964	-1,332	-1,495	-1,994	-2,556	-4,104
-968	-884	-925	-957	-950	-882	-964	-1,332	-1,495	-1,994	-2,556	-4,104
672	487	598	712	727	740	767	608	991	977	1,086	1,212
672	487	598	712	727	740	767	608	991	977	1,086	1,212
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
10,481	13,573	14,983	17,476	19,834	21,347	18,963	17,946	24,137	24,226	23,066	26,442
32,264	32,218	32,798	35,090	35,744	35,600	35,784	32,835	33,835	32,851	34,838	37,026
1,409	3,265	2,140	2,116	2,571	2,989	2,171	3,444	7,709	9,146	7,317	7,921
-23,374	-21,766	-19,726	-19,833	-18,315	-17,322	-18,640	-18,355	-17,254	-18,018	-18,100	-18,747
-10,425	-11,697	-14,179	-16,960	-19,380	-19,605	-17,289	-18,944	-22,164	-23,846	-22,881	-25,449
-10,425	-11,697	-14,179	-16,960	-19,380	-19,605	-17,289	-18,944	-22,164	-23,846	-22,881	-25,449
4,850	4,252	1,872	-191	-26	2,112	1,764	418	-1,922	-2,172	-758	-1,389
6,499	7,835	7,492	7,411	7,095	10,331	9,360	8,357	6,619	6,881	7,220	7,221
-2,513	-3,507	-5,094	-7,261	-7,317	-7,840	-7,194	-7,161	-8,533	-8,900	-8,158	-8,972
7,193	8,442	12,529	16,163	17,043	15,185	15,464	17,497	21,347	23,125	21,146	22,749
-2,512	-2,475	-2,206	-2,338	-2,638	-2,667	-2,584	-1,301	-966	-1,167	-2,011	-799
9,502	10,483	13,803	16,686	18,451	16,573	16,733	17,727	20,954	22,817	21,495	22,576
11,927	13,076	13,894	16,142	17,203	18,578	17,488	18,782	19,581	20,324	20,638	21,176
3,967	4,670	4,634	4,945	5,490	5,870	5,514	5,149	5,278	5,009	4,884	4,812
6,226	6,557	7,257	7,822	8,945	10,194	9,788	11,389	12,059	13,121	13,409	14,226
778	900	927	999	1,407	1,103	1,138	1,419	1,398	1,373	1,512	1,310
391	62	422	446	486	490	307	106	104	98	95	98
11,381	11,360	12,392	13,960	15,567	19,041	19,101	21,506	26,370	25,648	26,101	27,257
19,644	21,272	23,068	26,678	32,292	36,777	37,233	38,783	44,797	43,462	45,002	46,123
-	-	-	-	-	-	-	-	-	-	-	1,501
-8,263	-9,912	-10,527	-12,264	-16,725	-17,736	-17,873	-16,305	-17,831	-17,814	-18,901	-20,367
-10,006	-9,383	-12,180	-12,341	-13,060	-16,107	-15,632	-18,464	-21,382	-21,695	-20,495	-21,062
-3,144	-4,374	-5,119	-6,414	-7,489	-7,531	-9,158	-10,650	-12,110	-12,417	-12,552	-11,362
1,368	1,716	1,863	1,935	2,475	2,466	2,726	3,023	3,862	4,621	5,643	5,886
679	552	484	577	1,197	1,074	1,430	1,891	2,327	2,937	3,824	4,207
-	-	5	5	5	6	4	-	7	14	28	40
32	23	211	289	403	8	10	14	16	14	15	23
-	-	-	-	-	-	-	-	-	-	-	-
2,521	2,987	3,362	3,909	4,421	4,977	5,220	5,609	5,952	6,112	6,384	6,748
2,146	2,568	2,801	3,374	3,975	4,644	4,803	4,962	5,353	5,505	5,928	6,313
375	419	561	535	446	333	417	647	599	607	456	435
-	-	-	-	-	-	-	-	-	-	-	-
2,218	2,450	2,932	3,375	3,777	4,384	4,577	4,815	5,263	5,594	5,922	6,313
1,137	1,303	1,567	1,826	2,029	2,422	2,411	2,591	2,805	2,930	3,059	3,242
-	-	-	-	1	1	1	4	4	3	4	5
1,081	1,147	1,365	1,549	1,747	1,961	2,165	2,220	2,453	2,660	2,859	3,066
-	-	-	-	-	-	-	-	-	-	-	-

Major Economic Indicators of Malaysia

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	13.76	15.25	15.68	16.14	16.63	17.14	17.67	18.20
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	31.62	41.01	40.55	41.02	43.23	47.52	51.83	56.50
Real Term (Billions of 1995 Price and 1995 PPP)	51.90	67.33	66.57	67.34	70.97	78.02	85.09	92.75
Nominal (Billions of Current USD)	24.94	34.57	31.77	28.24	32.18	35.27	38.85	44.02
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	2,297	2,689	2,587	2,541	2,599	2,772	2,933	3,104
Real Term (1995 Price and 1995 PPP)	3,771	4,415	4,246	4,171	4,266	4,551	4,815	5,096
Nominal (Current USD)	1,812	2,267	2,027	1,750	1,935	2,057	2,199	2,419
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	54.29	81.01	78.89	72.91	81.08	92.37	105.23	119.08
Household Final Consumption Expenditure, etc.	27.93	41.04	41.76	37.83	39.06	45.44	52.62	61.69
General Government Final Consumption Expenditure	8.68	11.57	11.67	11.95	12.06	13.15	14.80	16.43
Gross Fixed Capital Formation	16.26	24.87	22.65	18.48	17.90	22.73	30.60	39.35
Stock Change	-1.38	-0.39	-3.05	-1.42	-0.98	-0.98	-0.98	-0.81
Exports of Goods and Services	30.77	43.31	42.67	40.43	51.00	61.35	75.11	88.76
Imports of Goods and Services	29.46	41.82	38.72	36.09	39.75	51.92	68.73	86.24
Real GDP & its Components (Billions of 1987 MYR) *1								
Gross Domestic Product	59.30	76.93	76.06	76.94	81.08	89.14	97.22	105.98
Household Final Consumption Expenditure, etc.	35.55	42.39	42.53	38.27	39.06	43.66	49.47	55.35
General Government Final Consumption Expenditure	9.66	11.84	11.74	11.89	12.06	12.95	13.43	14.22
Gross Fixed Capital Formation	17.87	25.35	22.95	18.73	17.90	22.06	28.24	35.89
Stock Change	0.30	2.30	-0.75	0.48	0.81	1.51	0.75	-0.70
Exports of Goods and Services	28.26	39.65	39.82	44.52	51.00	56.56	65.15	76.76
Imports of Goods and Services	31.16	43.46	39.18	36.65	39.75	47.59	59.82	75.54
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	21.0	18.5	19.1	19.7	20.0	18.6	17.9	16.1
Industry	36.1	37.9	37.2	38.3	38.5	39.6	39.5	40.2
Services, etc.	42.8	43.6	43.8	42.0	41.5	41.7	42.6	43.6
Industrial Production Index (2000=100) *2	17.1	24.2	23.7	25.9	28.1	32.1	35.9	40.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	12.958	16.590	15.442	13.753	17.939	21.110	25.053	29.452
Imports, c.i.f.	10.820	14.069	12.301	10.823	12.701	16.551	22.496	29.258
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.393	2.931	3.573	3.214	5.783	5.427	4.277	2.525
Current Account	-0.266	-1.657	-0.600	-0.101	2.575	1.867	0.315	-0.870
Overall Balance	0.464	0.492	1.148	1.461	1.139	-0.458	1.235	1.951
Foreign Exchange Rate (MYR/USD) *1	2.1769	2.3436	2.4830	2.5814	2.5196	2.6188	2.7088	2.7049
Purchasing Power Parity (MYR/International Dollar) *1	1.8052	1.6048	1.5275	1.3715	1.4155	1.4277	1.4353	1.4551
Price Indices								
GDP Deflator (1987=100) *3	91.5	105.3	103.7	94.8	100.0	103.6	108.2	112.4
Producer Price Index (2000=100) *2	#N/A	68.2	66.8	62.6	65.0	69.7	72.4	73.0
Consumer Price Index (2000=100) *2	51.4	64.3	64.5	65.0	65.2	66.9	68.8	70.6
Growth Rate (%) *3								
Real GDP	7.44	7.76	-1.12	1.15	5.39	9.94	9.06	9.01
Population	2.38	2.72	2.80	2.97	3.04	3.07	3.06	3.01
Price								
Producer Price Index	#VALUE!	#VALUE!	-2.1	-6.2	3.7	7.3	3.8	0.9
Consumer Price Index	6.7	3.9	0.3	0.7	0.3	2.6	2.8	2.6

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

Major Economic Indicators of Malaysia (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
18.66	19.13	19.61	20.10	20.61	21.13	21.67	22.18	22.71	23.27	23.80	24.30	24.77
61.89	67.39	74.06	80.88	88.83	97.72	104.87	97.16	103.12	112.25	112.61	117.28	123.51
101.61	110.63	121.58	132.78	145.83	160.42	172.17	159.50	169.29	184.28	184.87	192.54	752.74
49.13	59.15	66.89	74.48	88.83	100.85	100.17	72.18	79.15	90.32	88.00	95.16	103.74
3,317	3,523	3,777	4,023	4,310	4,625	4,840	4,380	4,541	4,824	4,731	4,825	4,985
5,446	5,784	6,200	6,605	7,076	7,592	7,946	7,191	7,454	7,919	7,767	7,922	8,184
2,634	3,093	3,411	3,705	4,310	4,773	4,623	3,254	3,485	3,881	3,697	3,915	4,187
135.12	150.68	172.19	195.46	222.47	253.73	281.80	283.24	300.76	343.22	334.40	361.62	394.20
70.50	75.75	83.14	94.09	106.61	116.79	127.78	117.72	125.06	145.35	150.64	159.51	172.37
18.50	19.60	21.75	23.97	27.53	28.18	30.34	27.67	33.04	35.68	42.27	50.01	54.91
49.13	55.19	66.94	78.66	96.97	107.82	121.49	75.98	65.84	87.73	83.34	83.76	87.09
1.94	-1.91	0.54	1.87	0.12	-2.58	-0.40	-0.43	1.48	5.98	-3.34	2.22	-2.84
105.16	114.49	135.90	174.25	209.32	232.36	262.88	327.84	364.86	427.00	389.26	415.04	450.59
110.11	112.45	136.07	177.39	218.08	228.84	260.31	265.54	289.51	358.53	327.77	348.92	367.92
116.09	126.41	138.92	151.71	166.63	183.29	196.71	182.24	193.42	210.56	211.23	219.99	231.67
60.36	63.17	67.12	73.42	81.98	87.61	91.39	82.03	84.38	95.37	97.63	101.95	108.72
15.89	16.67	18.08	19.50	20.68	20.83	22.02	20.06	23.48	23.87	28.01	31.34	34.48
43.91	48.74	57.41	66.67	81.89	88.62	96.74	55.18	51.57	65.19	63.05	63.25	64.96
1.66	-1.61	0.45	-1.49	0.09	-1.90	-0.28	-0.23	1.25	3.38	-1.28	2.36	-1.91
88.86	100.06	111.60	136.05	161.86	176.79	186.50	187.42	212.08	246.16	227.69	237.90	253.01
94.59	100.62	115.74	145.42	179.88	188.67	199.65	162.21	179.35	223.06	203.87	216.80	227.58
14.9	14.6	12.9	11.6	10.3	9.8	9.2	9.6	9.1	8.9	8.8	8.7	8.7
40.8	40.2	40.7	41.3	43.3	45.0	45.1	43.5	44.6	46.5	44.6	44.6	45.3
44.4	45.1	46.4	47.1	46.5	45.2	45.8	46.9	46.4	44.6	46.7	46.8	46.0
44.7	48.6	53.3	59.7	67.5	74.9	82.9	77.0	83.9	100.0	95.9	100.3	109.6
34.349	40.772	47.131	58.844	73.914	78.327	78.740	73.305	84.455	98.229	88.005	93.265	99.369
36.648	39.855	45.650	59.600	77.691	78.418	79.030	58.319	64.966	81.963	73.866	79.869	81.948
0.391	3.150	3.037	1.577	-0.103	3.848	3.510	17.505	22.644	20.827	18.383	18.135	25.711
-4.183	-2.167	-2.991	-4.520	-8.644	-4.462	-5.935	9.529	12.604	8.488	7.287	7.190	13.381
1.236	6.618	11.350	-3.160	-1.763	2.513	-3.875	10.018	4.712	-1.009	1.000	3.657	10.181
2.7501	2.5474	2.5741	2.6243	2.5044	2.5159	2.8132	3.9244	3.8000	3.8000	3.8000	3.8000	3.8000
1.4445	1.4418	1.4735	1.4997	1.5255	1.5523	1.5683	1.6820	1.6294	1.6475	1.5759	1.6243	1.6727
116.4	119.2	124.0	128.8	133.5	138.4	143.3	155.4	155.5	163.0	158.3	164.4	170.2
76.0	76.8	77.9	81.7	86.2	88.2	90.5	100.3	97.0	100.0	95.0	99.2	104.8
73.6	77.1	79.9	82.8	85.7	88.7	91.1	95.9	98.5	100.0	101.4	103.3	104.3
9.55	8.89	9.89	9.21	9.83	10.00	7.32	-7.36	6.14	8.86	0.32	4.15	5.31
2.50	2.52	2.52	2.52	2.52	2.52	2.55	2.37	2.39	2.47	2.29	2.11	1.93
4.0	1.1	1.4	4.9	5.5	2.3	2.6	10.8	-3.3	3.1	-5.0	4.5	5.7
4.4	4.8	3.5	3.7	3.5	3.5	2.7	5.3	2.7	1.5	1.4	1.8	1.1

Original Table (Energy Demand and Supply) of Malaysia in 2003

Year:2003

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	169.73	ktonne	0.6304	ktoe/ktonne	107.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	35,777.37	kbbbls	1.0349	ktoe/kbbbls	37,026.00	ktoe
CRUDE OIL	35,777.37	kbbbls	1.0349	ktoe/kbbbls	37,026.00	ktoe
NATURAL GAS AND LNG	1,649,294.86	mmscf	0.0280	ktoe/mmscf	46,123.00	ktoe
NATURAL GAS	1,649,294.86	mmscf	0.0280	ktoe/mmscf	46,123.00	ktoe
HYDRO POWER	5,055.67	GWh	0.0860	GWh/ktoe	434.79	ktoe
TOTAL PRODUCTION					83,690.79	ktoe
OPENING STOCKS						
COAL	2,461.94	ktonne	0.6304	ktoe/ktonne	1,552.06	ktoe
CRUDE OIL AND NGL/CONDENSATE	3,220.91	ktonne	1.0349	ktoe/ktonne	3,333.30	ktoe
CRUDE OIL	3,220.91	ktonne	1.0349	ktoe/ktonne	3,333.30	ktoe
LPG	64.22	ktonne	1.0884	ktoe/ktonne	69.90	ktoe
MOGAS	742.71	ktonne	1.0507	ktoe/ktonne	780.37	ktoe
JET FUEL	149.96	ktonne	1.0325	ktoe/ktonne	154.83	ktoe
KEROSENE	582.46	ktonne	1.0325	ktoe/ktonne	601.38	ktoe
DIESEL OIL	1,699.87	ktonne	1.0158	ktoe/ktonne	1,726.68	ktoe
FUEL OIL	279.21	ktonne	0.9919	ktoe/ktonne	276.94	ktoe
OTHER PETROLEUM PRODUCTS	1,554.00	ktoe	1.0000	ktoe/ktoe	1,554.00	ktoe
TOTAL OPENING STOCKS					10,049.46	ktoe
CLOSING STOCKS						
COAL	1,862.34	ktonne	0.6304	ktoe/ktonne	1,174.06	ktoe
CRUDE OIL AND NGL/CONDENSATE	2,987.07	ktonne	1.0349	ktoe/ktonne	3,091.30	ktoe
CRUDE OIL	2,987.07	ktonne	1.0349	ktoe/ktonne	3,091.30	ktoe
LPG	53.29	ktonne	1.0884	ktoe/ktonne	58.00	ktoe
MOGAS	679.90	ktonne	1.0507	ktoe/ktonne	714.37	ktoe
JET FUEL	131.38	ktonne	1.0325	ktoe/ktonne	135.65	ktoe
KEROSENE	561.16	ktonne	1.0325	ktoe/ktonne	579.39	ktoe
DIESEL OIL	1,467.57	ktonne	1.0158	ktoe/ktonne	1,490.72	ktoe
FUEL OIL	294.54	ktonne	0.9919	ktoe/ktonne	292.14	ktoe
OTHER PETROLEUM PRODUCTS	1,558.00	ktoe	1.0000	ktoe/ktoe	1,558.00	ktoe
TOTAL CLOSING STOCKS					9,093.63	ktoe
STOCK CHANGE						
COAL	599.60	ktonne	0.6304	ktoe/ktonne	378.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	233.84	ktonne	1.0349	ktoe/ktonne	242.00	ktoe
CRUDE OIL	233.84	ktonne	1.0349	ktoe/ktonne	242.00	ktoe
LPG	11.03	ktonne	1.0884	ktoe/ktonne	12.00	ktoe
MOGAS	62.82	ktonne	1.0507	ktoe/ktonne	66.00	ktoe
JET FUEL	18.40	ktonne	1.0325	ktoe/ktonne	19.00	ktoe
KEROSENE	21.31	ktonne	1.0325	ktoe/ktonne	22.00	ktoe
DIESEL OIL	230.37	ktonne	1.0158	ktoe/ktonne	234.00	ktoe
FUEL OIL	-15.12	ktonne	0.9919	ktoe/ktonne	-15.00	ktoe
OTHER PETROLEUM PRODUCTS	96.00	ktoe	1.0000	ktoe/ktoe	96.00	ktoe
TOTAL STOCK CHANGE					1,054.00	ktoe
IMPORTS						
COAL	8,356.33	ktonne	0.6304	ktoe/ktonne	5,268.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	7,653.92	ktonne	1.0349	ktoe/ktonne	7,921.00	ktoe
CRUDE OIL	7,653.92	ktonne	1.0349	ktoe/ktonne	7,921.00	ktoe
LPG	610.05	ktonne	1.0884	ktoe/ktonne	664.00	ktoe
MOGAS	2,399.35	ktonne	1.0507	ktoe/ktonne	2,521.00	ktoe
JET FUEL	57.14	ktonne	1.0325	ktoe/ktonne	59.00	ktoe
KEROSENE	34.87	ktonne	1.0325	ktoe/ktonne	36.00	ktoe
DIESEL OIL	1,506.24	ktonne	1.0158	ktoe/ktonne	1,530.00	ktoe
FUEL OIL	1,617.16	ktonne	0.9919	ktoe/ktonne	1,604.00	ktoe
OTHER PETROLEUM PRODUCTS	807.00	ktoe	1.0000	ktoe/ktoe	807.00	ktoe
NATURAL GAS AND LNG	53,673.69	mmscf	0.0280	ktoe/mmscf	1,501.00	ktoe
NATURAL GAS	53,673.69	mmscf	0.0280	ktoe/mmscf	1,501.00	ktoe
TOTAL IMPORTS					21,911.00	ktoe
EXPORTS						
COAL	57.10	ktonne	0.6304	ktoe/ktonne	36.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	18,114.88	ktonne	1.0349	ktoe/ktonne	18,747.00	ktoe
CRUDE OIL	18,114.88	ktonne	1.0349	ktoe/ktonne	18,747.00	ktoe
LPG	700.09	ktonne	1.0884	ktoe/ktonne	762.00	ktoe
MOGAS	41.88	ktonne	1.0507	ktoe/ktonne	44.00	ktoe
JET FUEL	552.06	ktonne	1.0325	ktoe/ktonne	570.00	ktoe
KEROSENE	953.04	ktonne	1.0325	ktoe/ktonne	984.00	ktoe
DIESEL OIL	1,924.64	ktonne	1.0158	ktoe/ktonne	1,955.00	ktoe
FUEL OIL	1,742.17	ktonne	0.9919	ktoe/ktonne	1,728.00	ktoe
OTHER PETROLEUM PRODUCTS	2,929.00	ktoe	1.0000	ktoe/ktoe	2,929.00	ktoe
NATURAL GAS AND LNG					20,367.00	ktoe
NATURAL GAS	53,472.82	mmscf	0.0262	ktoe/mmscf	1,402.00	ktoe
LNG	17,558.20	ktonne	1.0801	ktoe/ktonne	18,965.00	ktoe
ELECTRICITY	197.58	GWh	0.0860	ktoe/GWh	17.00	ktoe
TOTAL EXPORTS					48,139.00	ktoe
INTERNATIONAL MARINE BUNKERS						
DIESEL OIL	46.27	ktonne	1.0158	ktoe/ktonne	47.00	ktoe
FUEL OIL	25.21	ktonne	0.9919	ktoe/ktonne	25.00	ktoe
TOTAL PRIMARY ENERGY SUPPLY						
					58,444.79	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						

Original Table (Energy Demand and Supply) of Malaysia in 2003 (Continued)

Year:2003

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
REFINING						
CRUDE OIL AND NGL/CONDENSATE	24,489.44	ktonne	1.0349	ktoe/tonne	25,344.00	ktoe
CRUDE OIL	24,489.44	ktonne	1.0349	ktoe/tonne	25,344.00	ktoe
OTHERS	101.46	ktonne	1.0349	ktoe/tonne	105.00	ktoe
GAS PROCESSING						
NATURAL GAS	49,538.56	GJ	0.0239	ktoe/GJ	1,184.00	ktoe
NATURAL GAS	1,119,471.04	GJ	0.0239	ktoe/GJ	26,756.00	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
COAL	6,509.94	ktonne	0.6304	ktoe/tonne	4,104.00	ktoe
DIESEL OIL	334.72	ktonne	1.0158	ktoe/tonne	340.00	ktoe
FUEL OIL	291.37	ktonne	0.9919	ktoe/tonne	289.00	ktoe
NATURAL GAS AND LNG	415,463.19	mmscf	0.0262	ktoe/mmscf	10,893.00	ktoe
NATURAL GAS	415,463.19	mmscf	0.0262	ktoe/mmscf	10,893.00	ktoe
HYDRO POWER	5,058.14	GWh	0.0860	hydro eff.	435.00	ktoe
POWER GENERATION (AUTO PRODUCERS)						
DIESEL OIL	167.36	ktonne	1.0158	ktoe/tonne	170.00	ktoe
NATURAL GAS AND LNG	17,887.84	mmscf	0.0262	ktoe/mmscf	469.00	ktoe
NATURAL GAS	17,887.84	mmscf	0.0262	ktoe/mmscf	469.00	ktoe
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
REFINING						
REFINERY GAS	219,241.60	ktonne	0.0012	ktoe/tonne	262.00	ktoe
LPG	856.28	ktonne	1.0884	ktoe/tonne	932.00	ktoe
MOGAS	4,362.79	ktonne	1.0507	ktoe/tonne	4,584.00	ktoe
JET FUEL	2,292.52	ktonne	1.0325	ktoe/tonne	2,367.00	ktoe
KEROSENE	952.07	ktonne	1.0325	ktoe/tonne	983.00	ktoe
DIESEL OIL	8,921.27	ktonne	1.0158	ktoe/tonne	9,062.00	ktoe
FUEL OIL	1,777.46	ktonne	0.9919	ktoe/tonne	1,763.00	ktoe
OTHER PETROLEUM PRODUCTS	2,623.00	ktoe	1.0000	ktoe/ktoe	2,623.00	ktoe
GAS RECOVERING						
LPG	725.81	ktonne	1.0884	ktoe/tonne	790.00	ktoe
KEROSENE	32.93	ktonne	1.0325	ktoe/tonne	34.00	ktoe
DIESEL OIL	101.40	ktonne	1.0158	ktoe/tonne	103.00	ktoe
OTHER PETROLEUM PRODUCTS	306.00	ktoe	1.0000	ktoe/ktoe	306.00	ktoe
LNG	17,558.20	ktonne	1.0801	ktoe/tonne	18,965.00	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	71,290.71	GWh	0.0860	ktoe/GWh	6,134.00	ktoe
HYDRO POWER	5,055.67	GWh	0.0860	ktoe/GWh	435.00	ktoe
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	2,080.38	GWh	0.0860	ktoe/GWh	179.00	ktoe
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
REFINERY GAS	215,057.60	ktonne	0.0012	ktoe/tonne	257.00	ktoe
LPG	1,837.51	ktonne	0.0011	ktoe/tonne	2.00	ktoe
FUEL OIL	2.02	ktonne	0.9919	ktoe/tonne	2.00	ktoe
NATURAL GAS AND LNG	675.80	ktonne	1.0728	ktoe/tonne	725.00	ktoe
NATURAL GAS	675.80	ktonne	1.0728	ktoe/tonne	725.00	ktoe
ELECTRICITY	2,126.87	GWh	0.0860	ktoe/GWh	183.00	ktoe
TOTAL LOSSES AND OWN USE					1,169.00	ktoe
FINAL ENERGY CONSUMPTION TOTAL						
COAL	1,922.53	ktonne	0.6304	ktoe/tonne	1,212.00	ktoe
REFINERY GAS	6.43	ktonne	1.0888	ktoe/tonne	7.00	ktoe
LPG	1,229.83	ktonne	1.0888	ktoe/tonne	1,339.00	ktoe
MOGAS	7,004.84	ktonne	1.0507	ktoe/tonne	7,360.00	ktoe
JET FUEL	1,793.72	ktonne	1.0325	ktoe/tonne	1,852.00	ktoe
KEROSENE	90.07	ktonne	1.0325	ktoe/tonne	93.00	ktoe
DIESEL OIL	8,407.38	ktonne	1.0158	ktoe/tonne	8,540.00	ktoe
FUEL OIL	1,265.29	ktonne	0.9919	ktoe/tonne	1,255.00	ktoe
OTHER PETROLEUM PRODUCTS	632.00	ktoe	1.0000	ktoe/ktoe	632.00	ktoe
NATURAL GAS AND LNG	224,485.13	mmscf	0.0262	ktoe/mmscf	5,886.00	ktoe
NATURAL GAS	224,485.13	mmscf	0.0262	ktoe/mmscf	5,886.00	ktoe
ELECTRICITY	73,371.09	GWh	0.0860	ktoe/GWh	6,313.00	ktoe
TOTAL					34,489.00	ktoe
AGRICULTURE						
MOGAS	2.86	ktonne	1.0507	ktoe/tonne	3.00	ktoe
DIESEL OIL	93.52	ktonne	1.0158	ktoe/tonne	95.00	ktoe
TOTAL					98.00	ktoe
RESIDENTIAL COMMERCIAL						
LPG	882.65	ktonne	1.0888	ktoe/tonne	961.00	ktoe
KEROSENE	62.95	ktonne	1.0325	ktoe/tonne	65.00	ktoe
FUEL OIL	286.33	ktonne	0.9919	ktoe/tonne	284.00	ktoe
NATURAL GAS AND LNG	877.19	mmscf	0.0262	ktoe/mmscf	23.00	ktoe
NATURAL GAS	877.19	mmscf	0.0262	ktoe/mmscf	23.00	ktoe
ELECTRICITY	35,633.73	GWh	0.0860	ktoe/GWh	3,066.00	ktoe
TOTAL					4,399.00	ktoe
OTHERS						
TOTAL						ktoe
INDUSTRY						
COAL	1,922.53	ktonne	0.6304	ktoe/tonne	1,212.00	ktoe
REFINERY GAS	6.43	ktonne	1.0888	ktoe/tonne	7.00	ktoe
LPG	347.18	ktonne	1.0888	ktoe/tonne	378.00	ktoe
MOGAS	4.76	ktonne	1.0507	ktoe/tonne	5.00	ktoe

Original Table (Energy Demand and Supply) of Malaysia in 2003 (Continued)

Year:2003

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
KEROSENE	27.12	ktonne	1.0325	ktoe/ktonne	28.00	ktoe
DIESEL OIL	3,372.80	ktonne	1.0158	ktoe/ktonne	3,426.00	ktoe
FUEL OIL	975.94	ktonne	0.9919	ktoe/ktonne	968.00	ktoe
NATURAL GAS AND LNG	160,450.04	mmscf	0.0262	ktoe/mmscf	4,207.00	ktoe
NATURAL GAS	160,450.04	mmscf	0.0262	ktoe/mmscf	4,207.00	ktoe
ELECTRICITY	37,679.24	GWh	0.0860	ktoe/GWh	3,242.00	ktoe
TOTAL					13,473.00	ktoe
TRANSPORT						
MOGAS	6,997.22	ktonne	1.0507	ktoe/ktonne	7,352.00	ktoe
JET FUEL	1,793.72	ktonne	1.0325	ktoe/ktonne	1,852.00	ktoe
DIESEL OIL	4,941.06	ktonne	1.0158	ktoe/ktonne	5,019.00	ktoe
FUEL OIL	3.02	ktonne	0.9919	ktoe/ktonne	3.00	ktoe
NATURAL GAS AND LNG	1,525.62	mmscf	0.0262	ktoe/mmscf	40.00	ktoe
NATURAL GAS	1,525.62	mmscf	0.0262	ktoe/mmscf	40.00	ktoe
ELECTRICITY	58.11	GWh	0.0860	ktoe/GWh	5.00	ktoe
TOTAL					14,271.00	ktoe
NON-ENERGY						
LPG	90.01		1.0888	ktoe/ktonne	98.00	ktoe
OTHER PETROLEUM PRODUCTS	632.00	ktoe	1.0000	ktoe/ktoe	632.00	ktoe
NATURAL GAS AND LNG	61,634.86	mmscf	0.0262	ktoe/mmscf	1,616.00	ktoe
NATURAL GAS	61,634.86	mmscf	0.0262	ktoe/mmscf	1,616.00	ktoe
TOTAL NON-ENERGY USE					2,346.00	ktoe

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER		
COAL	3800	
OIL	1125.8	
GAS	13078.2	
HYDRO POWER	2114.7	
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL	622	2002
GAS	8	2002
OTHERS (BIOMASS, MUNICIPAL WASTE)	202	2002

REFINING CAPACITY

At the time of 2003
483000 bpd

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Malaysia in 2003

2003

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
TOTAL						
1.2 CHEMICAL AND PETROCHEMICAL						
TOTAL						
1.3 NON-FERROUS METALS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS						
TOTAL						
1.5 PAPER, PULP AND PRINTING						
TOTAL						
1.6 OTHER INDUSTRIES						
COAL	1,922.62	ktonne	0.6304	ktoe/ktonne	1,212.00	ktoe
REFINERY GAS	6.43	ktonne	1.0888	ktoe/ktonne	7.00	ktoe
LPG	347.18	ktonne	1.0888	ktoe/ktonne	378.00	ktoe
MOGAS	4.76	ktonne	1.0507	ktoe/ktonne	5.00	ktoe
KEROSENE	27.12	ktonne	1.0325	ktoe/ktonne	28.00	ktoe
DIESEL OIL	3,372.80	ktonne	1.0158	ktoe/ktonne	3,426.00	ktoe
FUEL OIL	975.94	ktonne	0.9919	ktoe/ktonne	968.00	ktoe
NATURAL GAS/LNG	160,450.04	mmscf	0.0262	ktoe/mmscf	4,207.00	ktoe
NATURAL GAS	160,450.04	mmscf	0.0262	ktoe/mmscf	4,207.00	ktoe
ELECTRICITY	37,679.24	GWh	0.0860	ktoe/GWh	3,242.00	ktoe
TOTAL					13,473.00	ktoe
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	1,793.72	ktonne	1.0325	ktoe/ktonne	1,852.00	ktoe
TOTAL					1,852.00	ktoe
2.2 ROAD						
MOGAS	6,997.22	ktonne	1.0507	ktoe/ktonne	7,352.00	ktoe
DIESEL OIL	4,861.06	ktonne	1.0325	ktoe/ktonne	5,019.00	ktoe
NATURAL GAS	40.33	ktonne	0.9919	ktoe/ktonne	40.00	ktoe
TOTAL					12,411.00	ktoe
2.3 RAIL						
ELECTRICITY	58.11	GWh	0.0860	ktoe/GWh	5.00	ktoe
TOTAL					5.00	ktoe
2.4 INTERNAL NAVIGATION						
FUEL OIL	3.02	ktonne	0.9919	ktoe/ktonne	3.00	ktoe
TOTAL					3.00	ktoe
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
LPG	16,275.76	GJ	0.0239	ktoe/GJ	389.00	ktoe
FUEL OIL	286.33	ktonne	0.9919	ktoe/ktonne	284.00	ktoe
NATURAL GAS	686.50	mmscf	0.0262	ktoe/mmscf	18.00	ktoe
ELECTRICITY	21,129.20	GWh	0.0860	ktoe/GWh	1,818.00	ktoe
TOTAL					2,509.00	ktoe
3.2 RESIDENTIAL						
LPG	23,932.48	GJ	0.0239	ktoe/GJ	572.00	ktoe
KEROSENE	62.95	ktonne	1.0325	ktoe/ktonne	65.00	ktoe
NATURAL GAS	190.69	mmscf	0.0262	ktoe/mmscf	5.00	ktoe
ELECTRICITY	14,504.53	GWh	0.0860	ktoe/GWh	1,248.00	ktoe
TOTAL					1,890.00	ktoe

Original Table (Energy Price) of Malaysia in 2003
Year: 2003

Malaysia	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
NATURAL GAS (LNG)			
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS	RM/mmbtu	6.40	Only for power sector
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
LPG			
ELECTRICITY (INDUSTRY)	sen/kWh	21.70	Medium Voltage Peak/ Off Peak
ELECTRICITY (COMMERCIAL)	sen/kWh	25.70	Medium Voltage Peak/ Off Peak
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS	RM/cu metre	0.49	for industrial consumption
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	RM/litre	1.35	
KEROSENE	RM/litre	1.31	
DIESEL OIL	RM/litre	0.76	
LPG	RM/kg	1.35	
ELECTRICITY (RESIDENTIAL)	sen/kWh	23.80	Average Domestic

Original Table (Quarterly) of Malaysia in 2004

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	1st quarter	31	1,975	23	244
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	2nd quarter	50	1,918	18	2
	JUL.				
	AUG.				
	SEP.				
	3rd quarter				
	OCT.				
	NOV.				
	DEC.				
	4th quarter				

Oil		Unit: 1,000bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.							
	FEB.							
	MAR.							
	1st quarter	73,580	12,177	35,435	1,923	16,389	18,473	37
	APR.							
	MAY.							
	JUN.							
	2nd quarter	73,580	12,177	35,435	1,923	16,389	18,473	37
	JUL.							
	AUG.							
	SEP.							
	3rd quarter							
	OCT.							
	NOV.							
	DEC.							
	4th quarter							

Original Table (Quarterly) of Malaysia in 2004 (Continued)

		Natural Gas (or LNG)				Unit: Mft ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	-	-	-	-	-
	FEB.	-	-	-	-	-
	MAR.	-	-	-	-	-
	1st quarter	558,017	9,563	10,339		-
	APR.	-	-	-	-	-
	MAY.	-	-	-	-	-
	JUN.	-	-	-	-	-
	2nd quarter	558,017	9,563	10,339		-
	JUL.					
	AUG.					
	SEP.					
	3rd quarter					
	OCT.					
	NOV.					
	DEC.					
	4th quarter					

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	1st quarter	23,923	21,531	1,546	N/A	846	-	68
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	2nd quarter	23,923	21,531	1,546	N/A	846	-	68
	JUL.							
	AUG.							
	SEP.							
	3rd quarter							
	OCT.							
	NOV.							
	DEC.							
	4th quarter							

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.11 Mexico

Energy Balance Table of Mexico in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	4,607	-	176,307	-	-	-	-	-	-
2 Import	4,493	324	-	9,354	2,929	-	-	-	191
3 Export	0	-1	-95,278	-8,628	-2,995	-	-	-355	-142
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-472	264	546	12	462	-	-	0	11
6 Total Primary Energy Supply	8,628	587	81,575	738	395	-	-	-355	60
7 Public Electricity	-7,356	-	-	-16,899	-	-	-	-	-707
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-3,493	12,734	3,662	-	-	88	-
10 Petroleum Refineries	-	-	-77,512	71,099	22,547	-	-	2,776	15,230
11 Coal Transformation	-1,034	957	-	-	-	-	-	-	-
12 Loss & Own Use	-	-21	-698	-5,486	-291	-	-	-	-593
13 Discrepancy	-58	0	127	-319	320	-	-	51	-367
14 Total Final Energy Consumption	180	1,523	-	61,867	26,633	-	-	2,560	13,624
15 Industry Sector	180	1,523	-	6,349	-	-	-	2	1,001
16 Transport Sector	-	-	-	40,106	25,450	-	-	2,528	10,677
17 Other Sector	-	-	-	10,595	-	-	-	31	1,946
18 Agriculture	-	-	-	2,062	-	-	-	1	1,871
19 Residential & Commercial	-	-	-	8,533	-	-	-	30	76
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	4,796	1,183	-	-	0	-

Energy Balance Table of Mexico in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	5,261	-	165,304	-	-	-	-	-	-
2 Import	3,662	252	-	11,243	4,178	-	-	34	835
3 Export	-2	-1	-85,074	-7,633	-3,084	-	-	-310	-387
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-1,367	454	-2,816	-375	-173	-	-	2	27
6 Total Primary Energy Supply	7,554	705	77,414	3,234	920	-	-	-274	475
7 Public Electricity	-6,308	-	-	-19,173	-	-	-	-	-363
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-2,829	12,500	3,689	-	-	90	-
10 Petroleum Refineries	-	-	-73,973	69,702	21,746	-	-	2,813	13,426
11 Coal Transformation	-994	919	-	-	-	-	-	-	-
12 Loss & Own Use	-	-18	-707	-4,948	-547	-	-	-1	-554
13 Discrepancy	-144	0	95	-572	93	-	-	52	-225
14 Total Final Energy Consumption	108	1,607	-	60,743	25,901	-	-	2,681	12,759
15 Industry Sector	108	1,607	-	6,817	-	-	-	40	971
16 Transport Sector	-	-	-	38,921	24,911	-	-	2,601	9,987
17 Other Sector	-	-	-	10,358	-	-	-	39	1,801
18 Agriculture	-	-	-	1,921	-	-	-	1	1,730
19 Residential & Commercial	-	-	-	8,436	-	-	-	38	72
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	4,648	990	-	-	0	-

Energy Balance Table of Mexico in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	42,085	-	1,698	2,736	5,108	8,268	-	-	240,810
1,756	2,836	-	1,642	8,356	-	-	-	-	-	6	-	22,533
-5,088	-10	-	-37	-	-	-	-	-	-	-82	-	-103,990
-	-	-	-	-	-	-	-	-	-	-	-	-
170	16	-	-647	-2,912	-	-	-	-	-23	-	-	-2,585
-3,162	2,841	-	958	47,529	-	1,698	2,736	5,108	8,245	-76	-	156,768
-16,192	-	-	-	-14,609	-	-1,698	-2,736	-5,108	-	17,518	-	-30,889
-	-	-	-	-	-	-	-	-	-	-	-	-
31	7,048	-	1,906	-7,938	-	-	-	-	-	-	-	1,304
25,411	1,123	2,149	1,863	-	-	-	-	-	-	-	-	-6,412
-	-	-	-	-	-	-	-	-	-	-	-	-78
-2,286	-167	-2,149	-	-13,008	-	-	-	-	-	-3,768	-	-22,981
-860	38	-	499	-130	-	-	-	-	0	116	-	-263
2,940	10,884	-	5,226	11,843	-	-	-	-	8,245	13,791	-	97,449
2,855	878	-	1,613	9,168	-	-	-	-	2,075	8,006	-	27,302
85	1,366	-	-	19	-	-	-	-	-	96	-	40,220
-	8,618	-	-	857	-	-	-	-	6,132	5,688	-	23,273
-	191	-	-	-	-	-	-	-	-	631	-	2,693
-	8,427	-	-	857	-	-	-	-	6,132	5,057	-	20,579
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	3,613	1,800	-	-	-	-	37	-	-	6,633

Energy Balance Table of Mexico in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	41,024	-	2,138	2,540	4,642	8,210	-	-	229,119
1,544	3,306	-	1,346	6,302	-	-	-	-	-	46	-	21,504
-3,683	-12	-	-156	-39	-	-	-	-	-	-30	-	-92,778
-	-	-	-	-	-	-	-	-	-	-	-	-
-125	82	-	-189	-2,765	-	-	-	-	-23	-	-	-6,893
-2,264	3,375	-	1,001	44,523	-	2,138	2,540	4,642	8,187	16	-	150,952
-18,811	-	-	-	-12,636	-	-2,138	-2,540	-4,642	-	17,305	-	-30,132
-	-	-	-	-	-	-	-	-	-	-	-	-
31	6,665	-	2,025	-11,869	-	-	-	-	-	-	-	-2,199
27,140	1,021	1,565	1,991	-	-	-	-	-	-	-	-	-4,271
-	-	-	-	-	-	-	-	-	-	-	-	-75
-2,148	-133	-1,565	-	-14,551	-	-	-	-	-	-3,576	-	-23,799
-127	-95	-	-271	6,707	-	-	-	-	0	185	-	6,271
3,823	10,833	-	4,747	12,174	-	-	-	-	8,187	13,929	-	96,748
3,709	980	-	1,117	10,773	-	-	-	-	2,013	8,255	-	29,573
114	1,309	-	-	-	-	-	-	-	-	98	-	39,019
-	8,517	-	-	817	-	-	-	-	6,093	5,576	-	22,844
-	191	-	-	-	-	-	-	-	-	620	-	2,542
-	8,326	-	-	817	-	-	-	-	6,093	4,956	-	20,302
-	-	-	-	-	-	-	-	-	-	-	-	-
-	28	-	3,630	568	-	-	-	-	81	-	-	5,296

Major Energy Indicators of Mexico

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	97,158	106,787	109,215	108,508	114,698	116,206	122,251	122,448	127,219
Indigenous Production	149,022	196,722	192,211	181,499	190,144	188,572	190,024	191,890	198,353
Import	1,792	1,524	2,725	3,227	3,702	4,297	6,620	5,860	8,290
Export	-52,824	-87,291	-82,145	-73,946	-76,280	-75,598	-72,003	-71,597	-76,120
Final Energy Consumption	65,089	74,208	77,200	74,774	78,161	78,584	82,011	84,432	87,726
Industry	18,331	24,746	26,030	23,638	25,509	24,387	24,623	26,284	26,761
Transport	23,518	24,580	24,850	24,690	25,306	25,607	28,266	30,460	32,489
Residential & Commercial	12,963	14,436	14,864	14,913	15,359	15,566	15,879	16,747	17,325
Agriculture	2,288	2,149	2,206	2,191	2,348	2,455	2,298	2,211	2,242
Coal, Coal Products									
Primary Energy Supply	2,355	2,867	3,205	3,453	3,428	3,237	3,564	3,466	3,291
Indigenous Production	1,725	2,826	2,901	3,141	3,486	3,112	3,344	3,386	3,074
Import	642	210	579	336	115	143	185	209	75
Export	-50	-	-60	-16	-36	-84	-34	-6	-19
Transformation Sector	-816	-964	-1,276	-1,981	-1,847	-2,091	-1,946	-1,973	-2,045
Power Generation	-	-738	-906	-1,469	-1,682	-1,842	-1,866	-1,816	-1,874
Final Energy Consumption	1,549	1,560	1,625	1,550	1,662	1,639	1,610	1,553	1,343
Industry	1,549	1,539	1,612	1,550	1,660	1,637	1,591	1,534	1,328
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	58,310	65,391	67,010	63,467	67,359	67,859	69,377	69,264	72,568
Indigenous Production	102,752	146,130	142,807	132,276	139,067	137,914	138,044	138,560	145,944
Import	-	-	-	-	-	-	-	-	-
Export	-43,934	-80,537	-75,453	-68,145	-71,450	-69,617	-67,921	-66,722	-71,512
Transformation Sector	-53,022	-66,554	-67,622	-64,753	-67,062	-67,733	-69,464	-69,213	-71,945
Petroleum Refineries	-53,007	-62,803	-63,633	-61,271	-63,492	-63,904	-65,323	-65,881	-66,991
Petroleum Products									
Primary Energy Supply	-1,507	-4,497	-4,913	-2,418	-1,426	-1,093	1,364	570	1,908
Import	1,097	1,270	2,099	2,838	3,527	4,086	5,998	5,265	6,765
Export	-2,286	-5,474	-6,612	-5,660	-4,618	-5,725	-3,882	-4,814	-4,416
Transformation Sector	40,534	49,403	51,973	48,833	49,619	49,929	50,944	52,768	53,626
Power Generation	-9,784	-12,280	-12,579	-13,384	-14,749	-15,339	-16,244	-16,122	-16,309
Petroleum Refineries	48,726	57,308	59,384	57,145	58,749	58,377	60,052	63,630	65,537
Final Energy Consumption	39,064	44,906	47,103	46,415	48,193	48,837	52,308	53,338	55,534
Industry	5,251	6,053	7,065	6,536	7,186	6,555	7,406	7,757	7,262
Transport	23,481	24,526	24,794	24,628	25,241	25,539	28,199	30,396	32,419
Residential & Commercial	5,491	6,329	6,594	6,454	6,822	6,866	6,890	7,511	7,791
Agriculture	1,966	1,750	1,780	1,725	1,832	1,904	1,677	1,634	1,683
Natural Gas, Town Gas									
Primary Energy Supply	28,582	32,370	32,817	31,760	32,357	32,999	34,384	34,555	34,222
Indigenous Production	35,137	37,063	35,362	33,677	34,403	34,148	34,927	35,279	33,949
Import	-	43	35	44	49	53	385	370	1,397
Export	-6,555	-1,273	-	-	-	-	-	-	-
Transformation Sector	-15,472	-17,984	-18,315	-18,948	-18,492	-19,497	-21,381	-21,227	-19,224
Power Generation	-2,837	-1,866	-1,957	-2,548	-2,749	-2,557	-2,699	-3,432	-4,033
Final Energy Consumption	12,840	14,633	14,971	12,812	13,865	13,502	13,003	14,164	14,998
Industry	7,532	12,248	12,245	10,211	10,817	10,354	9,547	10,827	11,675
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	470	616	633	709	685	720	774	810	868
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	5,320	6,835	7,339	7,684	8,280	8,761	9,465	9,823	10,175
Thermal	3,880	4,819	5,096	5,975	6,715	6,974	7,353	7,564	7,942
Hydro	1,439	2,016	2,243	1,709	1,565	1,786	2,081	2,006	1,869
Nuclear	-	-	-	-	-	-	32	253	365
Final Energy Consumption	4,497	5,686	6,051	6,261	6,658	7,039	7,611	7,921	8,147
Industry	2,458	3,168	3,383	3,459	3,724	3,963	4,256	4,425	4,486
Transport	37	53	56	61	65	68	66	65	69
Residential & Commercial	1,680	2,065	2,186	2,275	2,353	2,457	2,668	2,855	3,033
Agriculture	322	399	427	465	516	551	620	577	559

Major Energy Indicators of Mexico (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
128,626	128,450	134,907	130,101	136,540	142,136	145,632	147,964	152,590	152,128	150,952	156,768
198,098	198,792	196,950	193,847	211,961	222,389	226,907	222,896	228,054	230,758	229,119	240,810
10,888	9,785	10,924	9,014	10,080	16,440	18,541	17,566	20,538	20,978	21,504	22,533
-77,285	-77,936	-72,097	-71,948	-82,933	-92,543	-94,137	-89,132	-92,137	-93,923	-92,778	-103,990
89,496	89,863	94,910	91,714	93,355	95,432	97,475	96,238	96,386	95,256	96,748	97,449
26,676	27,205	28,755	29,986	30,627	30,759	31,537	29,664	29,587	28,816	29,573	27,302
32,778	33,512	35,152	33,416	33,882	35,298	36,471	36,966	38,553	38,481	39,019	40,220
18,380	19,008	19,655	19,493	20,009	20,066	20,749	19,227	19,959	20,030	20,302	20,579
2,178	2,210	2,175	2,234	2,421	2,553	2,545	2,792	2,759	2,635	2,542	2,693
3,521	4,038	4,972	5,563	6,389	6,598	6,667	6,780	7,011	7,504	8,259	9,215
2,855	3,090	4,180	4,125	4,566	4,525	4,762	4,869	5,415	5,331	5,261	4,607
542	527	571	1,088	1,197	1,662	1,735	1,658	1,950	2,349	3,914	4,817
-	-3	-0	-1	-9	-1	-2	-39	-3	-5	-2	-1
-2,063	-2,590	-3,170	-3,464	-4,210	-4,243	-4,346	-4,407	-4,515	-5,551	-6,400	-7,454
-1,944	-2,467	-3,063	-3,347	-4,072	-4,097	-4,206	-4,268	-4,372	-5,422	-6,308	-7,356
1,534	1,561	1,765	1,948	2,053	2,198	2,209	2,187	1,857	1,824	1,715	1,703
1,509	1,524	1,690	1,922	2,049	2,194	2,206	2,187	1,857	1,824	1,715	1,703
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
71,827	72,756	73,748	69,572	69,377	69,582	71,607	74,179	76,169	75,122	77,414	81,575
145,967	143,585	140,841	136,209	148,715	157,897	160,206	154,686	161,233	165,982	165,304	176,307
-	-	-	-	-	-	-	-	-	-	-	-
-71,557	-70,004	-66,911	-66,146	-78,407	-87,892	-88,876	-81,096	-86,728	-88,982	-85,074	-95,278
-71,856	-72,987	-73,338	-68,947	-69,097	-69,265	-71,618	-73,493	-75,666	-74,248	-77,509	-81,702
-66,893	-68,236	-69,505	-64,883	-64,855	-64,898	-67,428	-72,702	-71,922	-70,359	-73,973	-77,512
3,221	479	4,528	1,582	4,129	9,140	10,461	8,095	10,393	10,673	3,234	738
8,087	8,343	9,216	6,392	8,068	13,750	15,441	14,421	16,097	15,409	11,243	9,354
-5,553	-7,716	-4,850	-5,449	-4,093	-4,328	-4,971	-6,805	-5,183	-4,704	-7,633	-8,628
54,211	56,771	56,298	53,870	53,249	50,467	50,622	53,600	50,841	50,365	58,081	61,448
-15,970	-16,175	-19,284	-16,886	-17,395	-19,973	-22,044	-21,617	-23,401	-22,303	-19,173	-16,899
65,015	66,725	68,228	63,745	63,798	63,532	66,466	81,078	79,841	65,091	69,702	71,099
57,432	57,250	60,826	55,452	57,378	59,607	61,033	60,818	60,696	60,576	60,743	61,867
7,473	7,334	7,467	6,544	7,527	7,699	7,897	7,102	6,780	7,163	6,817	6,349
32,703	33,435	35,071	33,332	33,796	35,212	36,385	36,879	38,458	38,373	38,921	40,106
8,506	8,852	9,333	9,194	9,603	9,513	9,982	8,320	8,622	8,410	8,436	8,533
1,690	1,701	1,611	1,659	1,773	1,895	1,879	2,104	2,080	1,994	1,921	2,062
34,273	34,826	36,552	36,126	39,048	39,055	39,112	40,420	40,694	41,154	44,523	47,529
33,367	35,634	36,721	36,154	41,060	42,295	44,252	44,874	43,136	41,751	41,024	42,085
2,175	837	1,039	1,434	696	898	1,235	1,430	2,399	3,191	6,302	8,356
-	-40	-166	-185	-313	-317	-282	-1,180	-207	-208	-39	-
-19,752	-20,335	-23,313	-21,671	-24,253	-25,790	-28,066	-29,369	-32,614	-35,244	-39,056	-35,556
-3,740	-3,662	-4,301	-4,428	-4,570	-4,965	-5,879	-6,520	-7,726	-9,563	-12,636	-14,609
14,521	14,490	15,365	16,683	15,566	14,297	14,170	12,576	12,264	11,014	12,174	11,843
11,301	11,633	12,793	14,156	13,036	12,066	12,215	10,893	10,943	9,748	10,773	9,168
-	-	-	-	-	-	-	-	-	11	-	19
895	959	853	748	858	840	770	611	656	710	817	857
-	-	-	-	-	-	-	-	-	-	-	-
10,458	10,881	11,825	12,239	13,058	13,874	14,699	15,556	16,460	16,958	17,305	17,518
7,878	8,201	9,736	9,146	9,677	10,765	11,786	11,883	12,893	13,793	14,329	14,917
2,243	2,255	1,724	2,367	2,703	2,167	2,116	2,813	2,866	2,408	2,138	1,698
337	424	364	726	677	943	797	860	701	758	838	903
8,388	8,707	9,418	9,748	10,451	11,198	11,796	12,467	13,425	13,591	13,929	13,791
4,542	4,660	5,083	5,357	6,028	6,618	6,971	7,414	8,034	7,996	8,255	8,006
75	77	81	84	85	86	86	87	95	97	98	96
3,283	3,460	3,691	3,731	3,690	3,836	4,073	4,279	4,617	4,857	4,956	5,057
488	509	563	575	648	658	666	688	679	642	620	631

Major Economic Indicators of Mexico

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	67.57	73.91	75.47	77.02	78.57	80.12	81.67	83.23
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	222.18	238.38	244.57	235.39	239.75	242.74	252.93	265.75
Real Term (Billions of 1995 Price and 1995 PPP)	489.48	525.17	538.79	518.56	528.19	534.77	557.22	585.46
Nominal (Billions of Current USD)	194.77	175.60	184.49	129.45	140.27	183.14	222.98	262.71
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	3,288	3,225	3,241	3,056	3,052	3,030	3,097	3,193
Real Term (1995 Price and 1995 PPP)	7,244	7,105	7,140	6,733	6,723	6,675	6,823	7,035
Nominal (Current USD)	2,883	2,376	2,445	1,681	1,785	2,286	2,730	3,157
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	4.47	29.47	47.39	79.19	193.31	416.31	548.86	738.90
Household Final Consumption Expenditure, etc.	2.91	18.59	30.57	54.21	127.27	281.57	377.91	514.12
General Government Final Consumption Expenditure	0.45	2.72	4.37	7.21	17.00	35.03	45.38	61.95
Gross Fixed Capital Formation	1.11	5.29	9.05	15.41	35.67	77.11	94.67	132.11
Stock Change	0.11	0.57	0.99	-0.73	1.57	16.81	31.25	38.88
Exports of Goods and Services	0.48	5.12	7.31	13.73	37.69	82.96	104.27	137.44
Imports of Goods and Services	0.58	2.82	4.90	10.64	25.88	77.17	104.62	145.60
Real GDP & its Components (Billions of 1993 MXN) *1								
Gross Domestic Product	953.81	1,023.37	1,049.91	1,010.50	1,029.25	1,042.07	1,085.82	1,140.85
Household Final Consumption Expenditure, etc.	679.51	695.37	718.28	699.72	698.78	711.45	763.27	812.34
General Government Final Consumption Expenditure	94.53	116.45	117.50	119.24	117.81	119.32	121.94	126.01
Gross Fixed Capital Formation	219.09	161.73	174.43	153.85	153.67	162.55	171.90	194.46
Stock Change	47.63	15.92	23.61	5.69	14.99	25.87	19.49	19.04
Exports of Goods and Services	75.75	124.89	119.32	124.68	136.51	144.38	152.55	160.64
Imports of Goods and Services	144.42	82.41	91.46	84.52	88.87	121.50	143.33	171.63
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	6.4	6.5	6.6	6.7	6.7	6.3	6.1	6.1
Industry	25.1	23.5	24.1	23.7	24.0	24.3	24.7	25.1
Services, etc.	59.1	61.4	60.6	61.6	61.3	61.4	61.2	60.7
Industrial Production Index (2000=100) *2	56.6	56.7	59.8	56.3	57.9	59.5	63.1	67.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.031	29.101	26.757	21.804	27.600	30.691	35.171	40.711
Imports, c.i.f.	22.144	16.691	19.116	17.573	19.697	29.402	36.400	43.548
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-3.056	13.186	8.399	5.019	8.786	2.611	0.405	-0.881
Current Account	-10.422	4.183	0.800	-1.377	4.247	-2.374	-5.825	-7.451
Overall Balance	0.817	2.149	-2.729	-0.481	4.134	-10.062	-0.211	2.218
Foreign Exchange Rate (MXN/USD) *1	0.0230	0.1678	0.2569	0.6118	1.3782	2.2731	2.4615	2.8126
Purchasing Power Parity (MXN/International Dollar) *1	0.0158	0.0756	0.1160	0.1950	0.4595	0.9539	1.1656	1.4445
Price Indices								
GDP Deflator (1993=100) *3	0.5	2.9	4.5	7.8	18.8	39.9	50.5	64.8
Wholesale Price Index (2000=100) *2	0.3	1.0	1.6	3.1	7.4	15.2	16.9	20.6
Consumer Price Index (2000=100) *2	0.1	0.8	1.3	2.5	5.7	12.2	14.7	18.6
Growth Rate (%)								
Real GDP *3	9.23	3.61	2.59	-3.75	1.86	1.25	4.20	5.07
Population *3	2.51	2.15	2.10	2.06	2.01	1.97	1.94	1.91
Price *2								
Wholesale Price Index	24.5	66.4	56.6	86.7	141.4	105.3	11.5	21.7
Consumer Price Index	26.4	65.5	57.7	86.2	131.8	114.2	20.0	26.7

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"
: MXN shows Mexican Nuevo Peso, USD shows United States Dollar
: PPP shows Purchasing Power Parity

Major Economic Indicators of Mexico (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
84.79	86.37	87.95	89.55	91.15	92.57	93.93	95.25	96.58	97.97	99.38	100.82	102.29
276.97	287.02	292.62	305.54	286.70	301.44	321.81	337.60	350.23	373.25	372.80	375.52	380.41
610.18	632.32	644.65	673.12	631.60	664.09	708.97	743.75	771.56	822.29	821.30	827.28	752.74
314.45	363.61	403.19	420.77	286.70	332.91	401.48	421.21	481.09	581.33	622.33	648.46	626.08
3,266	3,323	3,327	3,412	3,146	3,256	3,426	3,544	3,626	3,810	3,751	3,725	3,719
7,196	7,321	7,329	7,517	6,930	7,174	7,548	7,808	7,988	8,394	8,265	8,206	8,193
3,708	4,210	4,584	4,699	3,146	3,596	4,274	4,422	4,981	5,934	6,262	6,432	6,121
949.15	1,125.33	1,256.20	1,420.16	1,840.43	2,529.91	3,179.12	3,848.22	4,599.45	5,496.79	5,813.97	6,261.51	6,754.77
669.16	808.12	903.17	1,016.13	1,232.00	1,646.26	2,042.08	2,593.35	3,084.14	3,682.55	4,044.88	4,319.87	4,672.27
86.16	111.75	138.56	164.16	191.98	243.71	314.62	399.96	506.46	612.62	683.38	758.49	855.87
177.04	220.55	233.18	274.86	296.71	451.08	619.49	804.00	973.80	1,174.30	1,161.95	1,209.68	1,304.29
44.38	41.56	30.60	33.54	67.39	132.48	201.46	131.41	103.51	130.30	72.76	84.98	35.10
155.33	171.48	191.54	238.96	558.80	811.51	962.22	1,180.39	1,414.34	1,704.08	1,598.52	1,677.56	1,920.55
182.92	228.12	240.86	307.49	509.86	759.45	965.61	1,262.76	1,488.56	1,810.58	1,730.39	1,794.95	2,033.31
1,189.02	1,232.16	1,256.20	1,311.66	1,230.77	1,294.08	1,381.53	1,449.31	1,503.50	1,602.35	1,600.43	1,612.07	1,633.08
850.34	890.13	903.17	944.55	854.69	873.66	930.15	980.56	1,022.77	1,106.45	1,133.86	1,148.72	1,183.10
132.84	135.31	138.56	142.52	140.64	139.61	143.65	146.92	153.84	157.50	154.38	154.60	158.47
215.83	239.23	233.18	252.75	179.44	208.86	252.80	278.79	300.28	334.38	315.53	312.23	310.88
18.89	26.75	30.60	38.26	10.36	29.66	44.96	50.27	40.09	44.49	44.11	49.84	20.93
168.79	177.20	191.54	225.63	293.76	347.31	384.53	431.04	484.57	564.15	542.52	550.70	556.82
197.68	236.46	240.86	292.05	248.12	304.90	374.25	436.23	497.61	604.48	594.62	603.06	597.13
6.0	5.7	5.8	5.6	6.0	5.9	5.6	5.5	5.4	5.1	5.4	5.3	5.5
24.9	25.1	24.7	24.8	24.3	25.5	26.1	26.4	26.5	26.4	25.5	25.3	24.7
61.1	61.2	61.5	61.6	61.6	60.5	60.3	60.2	60.1	60.5	61.0	61.3	61.7
69.6	72.7	72.9	76.4	70.4	77.5	84.7	90.0	94.3	100.0	96.5	96.4	96.3
42.688	46.196	51.886	60.882	79.542	96.000	110.431	117.460	136.391	166.367	158.547	160.682	165.396
52.315	65.050	68.439	83.075	75.858	93.674	114.846	130.948	146.084	182.702	176.185	176.607	178.503
-7.279	-15.934	-13.481	-18.464	7.089	6.531	0.623	-7.834	-5.613	-8.337	-9.617	-7.633	-5.780
-14.888	-24.442	-23.400	-29.662	-1.576	-2.537	-7.695	-16.017	-13.931	-18.620	-17.342	-13.009	-6.479
7.973	1.745	7.232	-17.199	-16.312	10.997	19.162	3.170	4.250	7.126	7.314	7.359	9.817
3.0184	3.0949	3.1156	3.3751	6.4194	7.5994	7.9185	9.1360	9.5604	9.4556	9.3423	9.6560	10.7890
1.7299	1.9366	2.0687	2.1877	2.9139	3.7560	4.3939	5.0161	5.7240	6.2906	6.5264	6.8968	7.2025
79.8	91.3	100.0	108.3	149.5	195.5	230.1	265.5	305.9	343.0	363.3	388.4	413.6
25.1	28.1	30.2	32.1	44.5	59.5	70.0	81.2	92.7	100.0	105.0	110.4	118.6
22.8	26.3	28.9	30.9	41.7	56.0	67.6	78.3	91.3	100.0	106.4	111.7	116.8
4.22	3.63	1.95	4.42	-6.17	5.14	6.76	4.91	3.74	6.57	-0.12	0.73	1.30
1.88	1.86	1.83	1.81	1.79	1.56	1.46	1.41	1.40	1.43	1.44	1.45	1.46
21.6	12.3	7.4	6.1	38.6	33.9	17.5	16.0	14.2	7.8	5.0	5.1	7.5
22.7	15.5	9.8	7.0	35.0	34.4	20.6	15.9	16.6	9.5	6.4	5.0	4.5

Original Table (Energy Demand and Supply) of Mexico in 2003

Year:2003

Mexico	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	9,618.84	kt	0.0201	PJ/kt	192.89	PJ
CRUDE OIL AND NGL	1,252.77	Mbbl	5.8923	PJ/Mbbl	7,381.63	PJ
CRUDE OIL	1,211.20	Mbbl	5.9680	PJ/Mbbl	7,228.47	PJ
NGL	41.57	Mbbl	3.6850	PJ/Mbbl	153.17	PJ
NATURAL GAS	4,632.82	Mm ³	0.3803	PJ/Mm ³	1,762.03	PJ
NOT ASSOCIATE	1,452.44	Mm ³	0.3276	PJ/Mm ³	475.85	PJ
ASSOCIATE	3,180.38	Mm ³	0.4044	PJ/Mm ³	1,286.18	PJ
HYDRO POWER	19,752.59	GWh	0.0036	PJ/GWh	71.11	PJ
NUCLEAR POWER	10,502.15	GWh	0.0109	PJ/GWh	114.57	PJ
GEOHERMAL POWER	5,939.87	GWh	0.0360	PJ/GWh	213.84	PJ
OTHER POWER (WIND, TIDE, ETC.)	5.01	GWh	0.0036	PJ/GWh	0.02	PJ
OTHER COMMERCIAL	30,397.73	kt	0.0114	PJ/kt	346.16	PJ
SUGAR CANE BAGASSE	12,674.27	kt	0.0071	PJ/kt	89.42	PJ
WOOD	17,723.46	kt	0.0145	PJ/kt	256.74	PJ
TOTAL PRODUCTION					10,082.24	PJ
OPENING STOCKS						
TOTAL OPENING STOCKS						PJ
CLOSING STOCKS						
TOTAL CLOSING STOCKS						PJ
STOCK CHANGE						
COAL	-1,050.92	kt	0.0188	PJ/kt	-19.75	PJ
COKE	417.10	kt	0.0265	PJ/kt	11.06	PJ
CRUDE OIL AND NGL	3.83	Mbbl	5.9670	PJ/Mbbl	22.85	PJ
CRUDE OIL	3.83	Mbbl	5.9680	PJ/Mbbl	22.84	PJ
NGL	0.00	Mbbl	3.6850	PJ/Mbbl	0.01	PJ
LPG	0.17	Mbbl	3.7340	PJ/Mbbl	0.65	PJ
MOGAS	3.83	Mbbl	5.0510	PJ/Mbbl	19.33	PJ
KEROSENE	0.00	Mbbl	5.6020	PJ/Mbbl	0.02	PJ
DIESEL OIL	0.08	Mbbl	5.5610	PJ/Mbbl	0.47	PJ
FUEL OIL	1.11	Mbbl	6.3920	PJ/Mbbl	7.12	PJ
OTHER PETROLEUM PRODUCTS	-27.09	PJ	1.0000	PJ/PJ	-27.09	PJ
OTHER COMMERCIAL	-138.34	kt	0.0071	PJ/kt	-0.98	PJ
SUGAR CANE BAGASSE	-138.34	kt	0.0071	PJ/kt	-0.98	PJ
NATURAL GAS	-301.62	Mm ³	0.4042	PJ/Mm ³	-121.92	PJ
NOT ASSOCIATE	-0.77	Mm ³	0.3276	PJ/Mm ³	-0.25	PJ
ASSOCIATE	-300.86	Mm ³	0.4044	PJ/Mm ³	-121.67	PJ
TOTAL STOCK CHANGE					-108.24	PJ
IMPORTS						
COAL	10,008.35	kt	0.0188	PJ/kt	188.12	PJ
COKE	511.22	kt	0.0265	PJ/kt	13.56	PJ
LPG	31.80	Mbbl	3.7340	PJ/Mbbl	118.74	PJ
MOGAS	24.28	Mbbl	5.0510	PJ/Mbbl	122.62	PJ
DIESEL OIL	1.44	Mbbl	5.5610	PJ/Mbbl	8.01	PJ
FUEL OIL	11.50	Mbbl	6.3920	PJ/Mbbl	73.52	PJ
OTHER PETROLEUM PRODUCTS	68.75	PJ	1.0000	PJ/PJ	68.75	PJ
NATURAL GAS	1,031.59	Mm ³	0.3391	PJ/Mm ³	349.84	PJ
ELECTRICITY	71.11	GWh	0.0036	PJ/GWh	0.26	PJ
TOTAL IMPORTS					943.40	PJ
EXPORTS						
COAL	0.53	kt	0.0188	PJ/kt	0.01	PJ
COKE	1.96	kt	0.0265	PJ/kt	0.05	PJ
CRUDE OIL	668.42	Mbbl	5.9680	PJ/Mbbl	3,989.11	PJ
LPG	0.11	Mbbl	3.7340	PJ/Mbbl	0.42	PJ
MOGAS	24.83	Mbbl	5.0510	PJ/Mbbl	125.41	PJ
KEROSENE	2.66	Mbbl	5.6020	PJ/Mbbl	14.87	PJ
DIESEL OIL	1.07	Mbbl	5.5610	PJ/Mbbl	5.95	PJ
FUEL OIL	33.33	Mbbl	6.3920	PJ/Mbbl	213.03	PJ
OTHER PETROLEUM PRODUCTS	1.57	PJ	1.0000	PJ/PJ	1.57	PJ
ELECTRICITY	953.06	GWh	0.0036	PJ/GWh	3.43	PJ
TOTAL EXPORTS					4,353.86	PJ
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					6,563.54	PJ
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	1,844.40	kt	0.0235	PJ/kt	43.31	PJ
REFINING						
CRUDE OIL AND NGL	544.46	Mbbl	5.9605	PJ/Mbbl	3,245.26	PJ
CRUDE OIL	542.67	Mbbl	5.9680	PJ/Mbbl	3,238.67	PJ
NGL	1.79	Mbbl	3.6850	PJ/Mbbl	6.58	PJ
GAS PROCESSING						
NGL	39.68	Mbbl	3.6850	PJ/Mbbl	146.23	PJ
NATURAL GAS	4,962.52	Mm ³	0.3831	PJ/Mm ³	1,901.08	PJ
NOT ASSOCIATE	1,377.98	Mm ³	0.3276	PJ/Mm ³	451.45	PJ
ASSOCIATE	3,584.54	Mm ³	0.4044	PJ/Mm ³	1,449.63	PJ
POWER GENERATION (NATIONAL, PUBLIC UTILITIES)						
COAL	12,180.75	kt	0.0253	PJ/kt	307.98	PJ
DIESEL OIL	5.32	Mbbl	5.5610	PJ/Mbbl	29.59	PJ
FUEL OIL	106.06	Mbbl	6.3920	PJ/Mbbl	677.95	PJ
NATURAL GAS	1,803.60	Mm ³	0.3391	PJ/Mm ³	611.66	PJ

Original Table (Energy Demand and Supply) of Mexico in 2003 (Continued)

Year:2003

Mexico	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HYDRO POWER	19,752.59	GWh	0.0036	PJ/GWh	71.11	PJ
NUCLEAR POWER	10,502.15	GWh	0.0109	PJ/GWh	114.57	PJ
GEOHERMAL POWER	5,939.87	GWh	0.0360	PJ/GWh	213.84	PJ
OTHERS(WIND, TIDE, PHOTOV.)	5.01	GWh	0.0036	PJ/GWh	0.02	PJ
POWER GENERATION (PRIVATE, AUTO PRODUCER)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	1,510.65	kt	0.0265	PJ/kt	40.06	PJ
GAS RECOVERING						
REFINING						
REFINERY GAS	89.97	PJ	1.0000	PJ/PJ	89.97	PJ
LPG	12.59	Mbbl	3.7340	PJ/Mbbl	47.02	PJ
MOGAS	186.89	Mbbl	5.0510	PJ/Mbbl	943.99	PJ
KEROSENE	20.75	Mbbl	5.6020	PJ/Mbbl	116.24	PJ
DIESEL OIL	114.67	Mbbl	5.5610	PJ/Mbbl	637.66	PJ
FUEL OIL	166.44	Mbbl	6.3920	PJ/Mbbl	1,063.89	PJ
OTHER PETROLEUM PRODUCTS	78.01	PJ	1.0000	PJ/PJ	78.01	PJ
GAS PROCESSING						
LPG	79.03	Mbbl	3.7340	PJ/Mbbl	295.08	PJ
MOGAS	30.36	Mbbl	5.0510	PJ/Mbbl	153.34	PJ
KEROSENE	0.65	Mbbl	5.6020	PJ/Mbbl	3.66	PJ
FUEL OIL	0.20	Mbbl	6.3920	PJ/Mbbl	1.28	PJ
OTHER PETROLEUM PRODUCTS	79.80	PJ	1.0000	PJ/PJ	79.80	PJ
NATURAL GAS	4,625.75	Mm ³	0.3391	PJ/Mm ³	1,568.73	PJ
POWER GENERATION (NATIONAL, PUBLIC UTILITI	203,735.00	GWh	0.0036	PJ/GWh	733.45	PJ
THERMAL	167,535.39	GWh	0.0036	PJ/GWh	603.13	PJ
HYDRO POWER	19,752.59	GWh	0.0036	PJ/GWh	71.11	PJ
NUCLEAR POWER	10,502.15	GWh	0.0036	PJ/GWh	37.81	PJ
GEOHERMAL POWER	5,939.87	GWh	0.0036	PJ/GWh	21.38	PJ
OTHERS(WIND, TIDE, PHOTOV.)	5.01	GWh	0.0036	PJ/GWh	0.02	PJ
POWER GENERATION (PRIVATE, AUTO PRODUCER)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COKE	32.43	kt	0.0265	PJ/kt	0.86	PJ
CRUDE OIL	4.98	Mbbl	5.8630	PJ/Mbbl	29.22	PJ
REFINERY GAS	89.97	PJ	1.0000	PJ/PJ	89.97	PJ
LPG	1.87	Mbbl	3.7340	PJ/Mbbl	6.98	PJ
MOGAS	2.41	Mbbl	5.0510	PJ/Mbbl	12.19	PJ
DIESEL OIL	4.47	Mbbl	5.5610	PJ/Mbbl	24.83	PJ
FUEL OIL	14.97	Mbbl	6.3920	PJ/Mbbl	95.71	PJ
NATURAL GAS	1,493.80	Mm ³	0.3646	PJ/Mm ³	544.64	PJ
NOT ASSOCIATE	774.46	Mm ³	0.3276	PJ/Mm ³	253.73	PJ
ASSOCIATE	719.34	Mm ³	0.4044	PJ/Mm ³	290.91	PJ
ELECTRICITY	43,822.78	GWh	0.0036	PJ/GWh	157.76	PJ
TOTAL LOSSES AND OWN USE					962.16	PJ
FINAL ENERGY CONSUMPTION TOTAL						
COAL	320.91	kt	0.0235	PJ/kt	7.54	PJ
COKE	2,404.59	kt	0.0265	PJ/kt	63.77	PJ
LPG	122.03	Mbbl	3.7340	PJ/Mbbl	455.68	PJ
MOGAS	220.76	Mbbl	5.0510	PJ/Mbbl	1,115.05	PJ
KEROSENE	19.13	Mbbl	5.6020	PJ/Mbbl	107.19	PJ
DIESEL OIL	102.58	Mbbl	5.5610	PJ/Mbbl	570.42	PJ
FUEL OIL	19.26	Mbbl	6.3920	PJ/Mbbl	123.11	PJ
OTHER PETROLEUM PRODUCTS	218.80	PJ	1.0000	PJ/PJ	218.80	PJ
NATURAL GAS	1,378.67	Mm ³	0.3597	PJ/Mm ³	495.86	PJ
NOT ASSOCIATE	803.28	Mm ³	0.3276	PJ/Mm ³	263.17	PJ
ASSOCIATE	575.38	Mm ³	0.4044	PJ/Mm ³	232.69	PJ
OTHER COMMERCIAL	30,259.25	kt	0.0114	PJ/kt	345.18	PJ
SUGAR CANE BAGASSE	12,535.79	kt	0.0071	PJ/kt	88.44	PJ
WOOD	17,723.46	kt	0.0145	PJ/kt	256.74	PJ
ELECTRICITY	160,384.44	GWh	0.0036	PJ/GWh	577.38	PJ
TOTAL					4,079.99	PJ
AGRICULTURE						
LPG	2.14	Mbbl	3.7340	PJ/Mbbl	7.99	PJ
KEROSENE	0.01	Mbbl	5.6020	PJ/Mbbl	0.04	PJ
DIESEL OIL	14.08	Mbbl	5.5610	PJ/Mbbl	78.32	PJ
ELECTRICITY	7,338.06	GWh	0.0036	PJ/GWh	26.42	PJ
TOTAL					112.77	PJ
RESIDENTIAL, COMMERCIAL						
LPG	94.49	Mbbl	3.7340	PJ/Mbbl	352.82	PJ
KEROSENE	0.22	Mbbl	5.6020	PJ/Mbbl	1.25	PJ
DIESEL OIL	0.57	Mbbl	5.5610	PJ/Mbbl	3.17	PJ
NATURAL GAS	99.78	Mm ³	0.3597	PJ/Mm ³	35.89	PJ
NOT ASSOCIATE	58.13	Mm ³	0.3276	PJ/Mm ³	19.05	PJ
ASSOCIATE	41.64	Mm ³	0.4044	PJ/Mm ³	16.84	PJ
OTHER COMMERCIAL	17,723.46	kt	0.0145	PJ/kt	256.74	PJ
WOOD	17,723.46	kt	0.0145	PJ/kt	256.74	PJ
ELECTRICITY	58,818.06	GWh	0.0036	PJ/GWh	211.75	PJ
TOTAL					861.61	PJ
OTHERS						
TOTAL						PJ
INDUSTRY						

Original Table (Energy Demand and Supply) of Mexico in 2003 (Continued)

Year:2003

Mexico	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COAL	320.91	kt	0.0235	PJ/kt	7.54	PJ
COKE	2,404.59	kt	0.0265	PJ/kt	63.77	PJ
LPG	9.85	Mbbl	3.7340	PJ/Mbbl	36.78	PJ
KEROSENE	0.01	Mbbl	5.6020	PJ/Mbbl	0.06	PJ
DIESEL OIL	7.53	Mbbl	5.5610	PJ/Mbbl	41.90	PJ
FUEL OIL	18.70	Mbbl	6.3920	PJ/Mbbl	119.55	PJ
OTHER PETROLEUM PRODUCTS	67.53	PJ	1.0000	PJ/PJ	67.53	PJ
NATURAL GAS	1,067.23	Mm ³	0.3597	PJ/Mm ³	383.85	PJ
NOT ASSOCIATE	621.82	Mm ³	0.3276	PJ/Mm ³	203.72	PJ
ASSOCIATE	445.41	Mm ³	0.4044	PJ/Mm ³	180.13	PJ
OTHER COMMERCIAL	12,314.53	kt	0.0071	PJ/kt	86.88	PJ
SUGAR CANE BAGASSE	12,314.53	kt	0.0071	PJ/kt	86.88	PJ
ELECTRICITY	93,115.28	GWh	0.0036	PJ/GWh	335.22	PJ
TOTAL					1,143.07	PJ
TRANSPORT						
LPG	15.32	Mbbl	3.7340	PJ/Mbbl	57.19	PJ
MOGAS	210.96	Mbbl	5.0510	PJ/Mbbl	1,065.54	PJ
KEROSENE	18.89	Mbbl	5.6020	PJ/Mbbl	105.83	PJ
DIESEL OIL	80.39	Mbbl	5.5610	PJ/Mbbl	447.03	PJ
FUEL OIL	0.56	Mbbl	6.3920	PJ/Mbbl	3.56	PJ
NATURAL GAS	2.15	Mm ³	0.3597	PJ/Mm ³	0.78	PJ
NOT ASSOCIATE	1.25	Mm ³	0.3276	PJ/Mm ³	0.41	PJ
ASSOCIATE	0.90	Mm ³	0.4044	PJ/Mm ³	0.36	PJ
ELECTRICITY	1,113.06	GWh	0.0036	PJ/GWh	4.01	PJ
TOTAL					1,683.93	PJ
NON-ENERGY						
OTHER COMMERCIAL	221.26	kt	0.0071	PJ/kt	1.56	PJ
SUGAR CANE BAGASSE	221.26	kt	0.0071	PJ/kt	1.56	PJ
MOGAS	9.80	Mbbl	5.0510	PJ/Mbbl	49.51	PJ
KEROSENE	0.00	Mbbl	5.6020	PJ/Mbbl	0.01	PJ
OTHER PETROLEUM PRODUCTS	151.28	PJ	1.0000	PJ/PJ	151.28	PJ
NATURAL GAS	209.50	Mm ³	0.3597	PJ/Mm ³	75.35	PJ
TOTAL					277.71	PJ

Original Table (Energy Demand and Supply) of Mexico in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	32,619	
COAL		
OIL		
GAS		
HYDRO POWER	9,608	
NUCLEAR POWER	1,365	
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	962	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Quarterly) of Mexico in 2004

Coal		Unit: 1000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	1st quarter	-	-	-	-
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	2nd quarter	-	-	-	-
	JUL.	-	-	-	-
	AUG.	-	-	-	-
	SEP.	-	-	-	-
	3rd quarter	-	-	-	-
	OCT.	-	-	-	-
	NOV.	-	-	-	-
	DEC.	-	-	-	-
	4th quarter	-	-	-	-

Oil		Unit: 1000bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	106,013		58,800	-193	8,016	5,887	
	FEB.	97,520		50,819	785	4,989	5,631	
	MAR.	104,465		55,449	776	6,194	4,679	
	1st quarter	307,998		165,068	1,368	19,199	16,198	
	APR.	103,241		52,989	898	7,757	5,697	
	MAY.	105,270		60,984	501	5,333	6,019	
	JUN.	103,148		55,376	-565	5,994	4,528	
	2nd quarter	311,659		169,349	835	19,085	16,245	
	JUL.	104,307		55,952	182	3,817	4,347	
	AUG.	97,316		52,637	301	5,549	3,440	
	SEP.	102,965		56,826	2,339	6,268	4,342	
	3rd quarter	304,588		165,415	2,822	15,634	12,129	
	OCT.	107,066		61,370	3,192	10,853	3,707	
	NOV.	100,976		58,514	523	11,960	4,460	
	DEC.	99,926		61,200	-565	11,623	4,707	
	4th quarter	307,968		181,084	3,149	34,437	12,874	
	1,232,213		-	680,916	8,173	88,355	57,446	-

Original Table (Quarterly) of Mexico in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000m ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	5,764,873	826,145	-	918	
	FEB.	5,703,760	795,483	-	5,549	
	MAR.	5,791,010	802,018	-	-3,743	
	1st quarter	17,259,644	2,423,646	-	2,724	
	APR.	5,604,164	507,106	-	-3,211	
	MAY.	5,790,636	758,794	-	-3,496	
	JUN.	5,885,349	911,032	-	2,408	
	2nd quarter	17,280,149	2,176,932	-	-4,299	
	JUL.	5,835,222	899,398	-	-1,448	
	AUG.	5,878,304	961,422	-	848	
	SEP.	5,948,747	960,214	-	-3,321	
	3rd quarter	17,662,274	2,821,034	-	-3,921	
	OCT.	5,834,776	874,924	-	-4,273	
	NOV.	5,891,246	920,319	-	4,780	
	DEC.	5,937,777	836,702	-	9,147	
	4th quarter	17,663,799	2,631,945	-	9,654	
	69,865,865	10,053,557	-	4,158		

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	12,554	9,976	1,030	1,003	546	5	149
	FEB.	11,859	9,497	943	889	530	7	150
	MAR.	13,411	10,182	1,751	891	587	9	128
	1st quarter	37,824	29,655	3,724	2,782	1,663	22	426
	APR.	12,759	9,472	2,101	614	572	5	85
	MAY.	13,988	10,283	2,621	495	588	2	88
	JUN.	13,914	10,149	2,649	579	537	3	47
	2nd quarter	40,661	29,904	7,370	1,689	1,698	9	220
	JUL.	14,527	10,434	2,629	930	533	1	69
	AUG.	14,874	10,873	2,523	969	508	9	77
	SEP.	13,854	10,030	2,486	839	499	10	78
	3rd quarter	43,255	31,338	7,638	2,738	1,540	20	224
	OCT.	14,135	10,049	2,784	707	595	9	150
	NOV.	12,566	9,620	1,890	477	579	4	175
	DEC.	12,724	9,746	1,670	801	508	7	152
	4th quarter	39,425	29,415	6,343	1,985	1,682	21	477
	161,164	120,311	25,076	9,194	6,583	72	1,347	

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.12 New Zealand

Energy Balance Table of New Zealand in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	3,089	-	1,117	199	-	-	-	-	-
2 Import	271	2	5,335	1,564	827	-	202	-	346
3 Export	-1,584	-1	-950	-91	-14	-	-	-	-7
4 International Marine Bunkers	-	-	-	-250	-	-	-	-	-
5 Stock Changes	-	-	25	-1	-9	-	-1	-	24
6 Total Primary Energy Supply	1,776	1	5,528	1,421	805	-	201	-	363
7 Public Electricity	-778	-	-	-	-	-	-	-	-
8 Autoproducers of Electricity	-21	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-5,441	5,095	1,621	-	879	-	1,932
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-45	-	-	-136	-39	-	-7	-	-22
13 Discrepancy	118	-1	-87	169	93	-	92	-	82
14 Total Final Energy Consumption	1,049	-	-	6,549	2,480	-	1,164	-	2,355
15 Industry Sector	921	-	-	327	3	-	5	-	250
16 Transport Sector	2	-	-	5,411	2,446	-	1,141	-	1,730
17 Other Sector	126	-	-	539	30	-	18	-	375
18 Agriculture	13	-	-	378	28	-	4	-	315
19 Residential & Commercial	114	-	-	162	2	-	14	-	60
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	272	-	-	-	-	-

Energy Balance Table of New Zealand in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	2,713	-	1,442	259	-	-	-	-	-
2 Import	52	4	5,122	1,403	850	-	131	-	277
3 Export	-1,390	-1	-1,146	-222	-15	-	-4	-	-7
4 International Marine Bunkers	-	-	-	-333	-	-	-	-	-
5 Stock Changes	-	-	-7	-119	-63	-	16	-	-43
6 Total Primary Energy Supply	1,375	3	5,411	987	772	-	143	-	227
7 Public Electricity	-338	-	-	-	-	-	-	-	-
8 Autoproducers of Electricity	-20	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-5,462	5,217	1,632	-	917	-	2,132
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-45	-	-	-161	-25	-	-38	-	-31
13 Discrepancy	-92	-3	51	199	18	-	-5	-	-12
14 Total Final Energy Consumption	880	-	-	6,242	2,398	-	1,017	-	2,316
15 Industry Sector	739	-	-	335	3	-	5	-	240
16 Transport Sector	2	-	-	5,184	2,364	-	994	-	1,730
17 Other Sector	139	-	-	459	31	-	19	-	346
18 Agriculture	14	-	-	329	28	-	4	-	297
19 Residential & Commercial	125	-	-	131	2	-	15	-	50
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	264	-	-	-	-	-

Energy Balance Table of New Zealand in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	199	-	-	3,858	-	2,037	-	2,858	1,215	-	-	14,374
27	12	-	150	-	-	-	-	-	-	-	-	7,172
-42	-28	-	-	-	-	-	-	-	-	-	-	-2,626
-250	-	-	-	-	-	-	-	-	-	-	-	-250
6	-2	-	-19	0	-	-	-	-	-	-	-	25
-260	181	-	130	3,858	-	2,037	-	2,858	1,215	-	-	18,694
-	-	-	-	-1,319	-	-2,037	-	-2,354	-27	3,250	-	-3,265
-	-	-	-	-612	-	-	-	-39	-512	295	-	-890
-	-	-	-	-	-	-	-	-	-	-	-	-
526	-	-	138	-	-	-	-	-	-	-	-	-346
-	-	-	-	-	-	-	-	-	-	-	-	-
-40	-19	-	-7	-141	-	-	-	-143	-	-247	-	-712
-102	-6	-	11	73	-	-	-	0	5	-270	-	7
123	155	-	272	1,859	-	-	-	322	681	3,028	-	13,489
7	62	-	-	455	-	-	-	269	617	1,237	-	3,826
68	25	-	-	4	-	-	-	-	-	46	-	5,463
49	68	-	-	421	-	-	-	53	64	1,745	-	2,949
31	-	-	-	-	-	-	-	-	-	123	-	513
18	68	-	-	421	-	-	-	53	64	1,622	-	2,436
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	272	979	-	-	-	-	-	-	-	1,250

Energy Balance Table of New Zealand in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	259	-	-	5,058	-	2,168	-	2,939	1,201	-	-	15,781
-	-	-	145	-	-	-	-	-	-	-	-	6,580
-120	-76	-	-	-	-	-	-	-	-	-	-	-2,760
-333	-	-	-	-	-	-	-	-	-	-	-	-333
-59	-	-	30	0	-	-	-	-	-	-	-	-126
-512	183	-	174	5,058	-	2,168	-	2,939	1,201	-	-	19,143
-	-	-	-	-1,495	-	-2,168	-	-2,420	-24	3,264	-	-3,183
-	-	-	-	-480	-	-	-	-57	-533	271	-	-820
-	-	-	-	-	-	-	-	-	-	-	-	-
426	-	-	110	-	-	-	-	-	-	-	-	-245
-	-	-	-	-	-	-	-	-	-	-	-	-
-37	-21	-	-10	-135	-	-	-	-143	-	-253	-	-738
215	-7	-	-10	7	-	-	-	0	3	-315	-	-149
92	155	-	264	2,955	-	-	-	318	646	2,967	-	14,008
25	62	-	-	466	-	-	-	258	582	1,181	-	3,561
68	29	-	-	4	-	-	-	-	-	45	-	5,235
-	64	-	-	430	-	-	-	60	64	1,741	-	2,894
-	-	-	-	-	-	-	-	-	-	129	-	472
-	64	-	-	430	-	-	-	60	64	1,612	-	2,421
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	264	2,055	-	-	-	-	-	-	-	2,319

Major Energy Indicators of New Zealand

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	9,501	11,732	11,968	12,715	12,620	12,401	13,540	14,182	14,420
Indigenous Production	6,031	9,154	10,037	11,130	10,613	11,129	11,982	12,351	12,899
Import	4,058	3,233	3,150	2,208	3,137	2,887	3,541	3,848	3,912
Export	-86	-344	-1,036	-491	-662	-1,187	-1,756	-1,662	-1,965
Final Energy Consumption	7,301	9,018	9,180	9,405	9,502	9,445	9,717	10,130	10,360
Industry	2,472	3,327	3,456	3,514	3,324	3,199	3,267	3,396	3,441
Transport	2,269	2,531	2,574	2,758	3,060	3,090	3,242	3,377	3,410
Residential & Commercial	1,964	2,034	2,054	2,051	2,029	2,069	2,096	2,080	2,054
Agriculture	448	451	447	431	425	404	402	433	410
Coal, Coal Products									
Primary Energy Supply	1,113	1,150	1,034	1,188	1,091	1,076	1,169	1,192	1,057
Indigenous Production	1,179	1,414	1,330	1,390	1,304	1,335	1,514	1,430	1,490
Import	-	1	1	1	1	1	1	3	3
Export	-66	-266	-297	-202	-215	-260	-347	-240	-435
Transformation Sector	-192	-279	-278	-181	-258	-198	-128	-169	-101
Power Generation	-127	-226	-223	-125	-202	-157	-87	-119	-55
Final Energy Consumption	851	917	907	927	954	984	1,023	1,070	1,013
Industry	556	680	661	707	742	779	818	859	839
Transport	2	2	2	2	2	2	2	2	2
Residential & Commercial	291	231	241	214	206	197	193	192	154
Agriculture	3	5	4	4	5	6	10	17	19
Crude Oil									
Primary Energy Supply	3,030	2,627	1,600	2,272	3,527	3,818	4,310	4,285	4,227
Indigenous Production	337	866	1,265	1,396	1,332	1,603	1,796	1,850	1,935
Import	2,746	1,826	990	1,104	2,352	2,560	3,146	3,295	3,390
Export	-	-	-658	-190	-106	-328	-625	-913	-1,023
Transformation Sector	-3,102	-2,670	-1,610	-2,379	-3,541	-3,912	-4,340	-4,373	-4,393
Petroleum Refineries	-3,102	-2,670	-1,610	-2,379	-3,541	-3,912	-4,340	-4,373	-4,393
Petroleum Products									
Primary Energy Supply	865	1,144	2,001	1,037	153	-545	-465	-219	-173
Import	1,312	1,406	2,159	1,104	784	326	394	550	519
Export	-20	-78	-80	-98	-342	-599	-784	-509	-506
Transformation Sector	2,823	2,456	1,450	2,684	3,696	4,218	4,659	4,679	4,506
Power Generation	-	-	-	-	-	-	-	-	-
Petroleum Refineries	2,865	2,497	1,513	2,721	3,740	4,245	4,678	4,702	4,581
Final Energy Consumption	3,660	3,591	3,515	3,657	3,884	3,892	4,060	4,397	4,340
Industry	488	317	321	294	278	260	250	238	232
Transport	2,256	2,441	2,444	2,633	2,949	2,995	3,165	3,312	3,335
Residential & Commercial	376	267	238	211	148	143	130	177	174
Agriculture	393	380	375	359	353	323	326	353	311
Natural Gas, Town Gas									
Primary Energy Supply	760	2,350	3,022	3,636	3,505	3,795	3,906	3,895	4,228
Indigenous Production	763	2,351	3,021	3,637	3,507	3,797	3,906	3,895	4,228
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-414	-1,133	-1,702	-2,244	-2,112	-2,436	-2,541	-2,549	-2,578
Power Generation	-332	-1,024	-1,344	-1,028	-1,090	-1,191	-1,267	-1,231	-1,502
Final Energy Consumption	407	1,216	1,355	1,356	1,395	1,407	1,400	1,393	1,634
Industry	311	521	593	605	616	621	623	630	632
Transport	8	86	126	121	107	90	70	58	58
Residential & Commercial	84	116	120	135	159	181	183	174	183
Agriculture	1	4	5	4	4	4	4	4	4
Electricity									
Power Generation	1,952	2,343	2,379	2,453	2,497	2,604	2,625	2,706	2,803
Thermal	303	608	702	572	630	649	704	732	854
Hydro	1,648	1,735	1,678	1,881	1,867	1,955	1,920	1,974	1,949
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,670	2,043	2,082	2,157	2,209	2,277	2,336	2,382	2,444
Industry	645	835	849	877	905	931	956	963	991
Transport	3	3	3	3	3	4	5	5	16
Residential & Commercial	971	1,143	1,166	1,214	1,239	1,271	1,314	1,356	1,361
Agriculture	51	62	64	64	63	71	61	59	76

Major Energy Indicators of New Zealand (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
14,986	15,368	15,328	15,543	16,460	17,073	17,122	18,097	18,746	18,597	19,143	18,694
13,131	13,578	13,193	13,099	14,180	14,966	14,165	15,045	15,586	15,492	15,781	14,374
3,840	4,181	4,669	4,921	5,280	5,442	5,948	6,261	6,078	6,169	6,580	7,172
-1,747	-2,094	-2,117	-2,003	-2,597	-2,883	-2,616	-2,611	-2,558	-2,717	-2,760	-2,626
10,434	10,768	11,249	11,877	12,581	12,839	12,946	12,957	13,582	13,369	14,008	13,489
3,435	3,443	3,458	3,440	3,605	3,712	3,869	3,362	3,433	3,447	3,561	3,826
3,536	3,686	3,876	4,177	4,344	4,404	4,466	4,673	4,865	4,896	5,235	5,463
2,033	2,141	2,149	2,165	2,170	2,236	2,221	2,288	2,415	2,439	2,421	2,436
461	472	474	512	522	442	460	469	435	423	472	513
1,119	1,238	994	1,107	1,030	1,090	1,146	1,125	1,066	900	1,378	1,777
1,665	1,798	1,735	2,076	2,183	1,971	1,918	2,080	2,162	2,162	2,713	3,089
3	2	2	1	3	3	4	5	5	29	56	272
-549	-562	-744	-970	-1,156	-884	-777	-960	-1,101	-1,291	-1,391	-1,585
-267	-152	-139	-211	-318	-424	-395	-348	-279	-397	-403	-845
-221	-107	-94	-165	-273	-379	-349	-302	-234	-352	-358	-799
926	1,027	1,011	947	941	882	880	797	797	920	880	1,049
801	826	822	733	758	730	754	677	683	773	739	921
2	2	2	2	2	0	0	2	2	2	2	2
104	186	171	191	158	133	110	107	99	132	125	114
19	14	16	22	23	19	16	11	13	13	14	13
4,209	4,451	4,848	4,432	4,615	5,118	5,425	5,206	5,283	4,968	5,411	5,528
1,823	1,922	1,850	1,550	2,059	2,736	2,171	1,914	1,701	1,576	1,442	1,117
3,294	3,683	4,058	3,959	4,004	4,124	4,971	4,776	4,839	4,790	5,122	5,335
-919	-1,080	-1,165	-1,001	-1,292	-1,763	-1,610	-1,440	-1,249	-1,277	-1,146	-950
-4,301	-4,503	-4,726	-4,674	-4,679	-5,273	-5,445	-5,192	-5,243	-5,201	-5,462	-5,441
-4,301	-4,503	-4,726	-4,674	-4,679	-5,273	-5,445	-5,192	-5,243	-5,201	-5,462	-5,441
192	8	65	707	1,083	829	696	947	913	1,241	987	1,421
543	496	609	961	1,272	1,315	973	1,479	1,233	1,350	1,403	1,564
-278	-452	-208	-31	-149	-236	-229	-212	-208	-149	-222	-91
4,563	4,688	4,833	4,515	4,398	4,674	4,878	4,635	4,723	4,714	5,056	4,960
-	-	-	-	-	-	-	-	-	-	-	-
4,677	4,803	4,978	4,634	4,491	4,836	5,033	4,980	4,976	4,927	5,217	5,095
4,617	4,605	4,863	5,246	5,406	5,471	5,499	5,680	5,899	5,824	6,242	6,549
252	211	230	234	249	304	263	238	298	293	335	327
3,461	3,611	3,810	4,140	4,315	4,383	4,450	4,630	4,815	4,841	5,184	5,411
250	150	154	154	148	140	145	158	157	143	131	162
362	363	367	380	382	326	344	352	313	301	329	378
4,482	4,372	4,067	3,855	4,396	4,712	4,150	4,810	5,055	5,319	5,058	3,858
4,482	4,371	4,067	3,856	4,397	4,712	4,151	4,810	5,056	5,319	5,058	3,858
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-2,974	-2,771	-2,299	-1,802	-1,939	-2,191	-1,716	-2,187	-2,152	-2,634	-2,110	-2,072
-1,623	-1,501	-1,222	-1,090	-1,443	-2,032	-1,592	-2,059	-2,022	-2,497	-1,975	-1,931
1,561	1,627	1,866	2,074	2,554	2,809	2,842	2,616	2,949	2,708	2,955	1,859
634	613	632	589	683	840	978	513	497	445	466	455
54	49	40	31	23	16	11	8	2	2	4	4
193	204	205	210	221	226	219	233	330	343	430	421
4	4	-	-	-	-	-	-	-	-	-	-
2,739	2,860	2,918	3,023	3,054	3,084	3,154	3,149	3,394	3,405	3,535	3,545
943	860	719	679	843	1,055	1,076	1,153	1,276	1,545	1,366	1,508
1,796	2,000	2,199	2,344	2,211	2,029	2,078	1,996	2,118	1,859	2,168	2,037
-	-	-	-	-	-	-	-	-	-	-	-
2,391	2,522	2,541	2,618	2,696	2,700	2,704	2,819	2,901	2,893	2,967	3,028
991	1,015	1,016	1,107	1,145	1,075	1,066	1,105	1,137	1,134	1,181	1,237
19	24	24	5	5	5	5	34	46	52	45	46
1,304	1,392	1,411	1,396	1,430	1,523	1,533	1,575	1,609	1,599	1,612	1,622
76	91	91	110	116	96	100	106	109	108	129	123

Major Economic Indicators of New Zealand

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	3.11	3.25	3.27	3.28	3.31	3.35	3.40	3.45
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	43.36	50.35	50.74	51.80	52.02	51.95	52.24	52.23
Real Term (Billions of 1995 Price and 1995 PPP)	44.74	51.95	52.35	53.45	53.67	53.60	53.90	53.89
Nominal (Billions of Current USD)	22.85	22.76	22.84	29.19	37.01	44.24	42.72	43.62
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	13,929	15,479	15,509	15,807	15,738	15,506	15,373	15,147
Real Term (1995 Price and 1995 PPP)	14,372	15,972	16,003	16,310	16,239	16,000	15,862	15,630
Nominal (Current USD)	7,341	6,998	6,981	8,908	11,199	13,206	12,573	12,650
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	23.46	40.15	46.21	55.85	62.72	67.53	71.44	73.11
Household Final Consumption Expenditure, etc.	13.80	22.97	27.15	32.11	36.57	39.61	42.44	44.64
General Government Final Consumption Expenditure	4.88	7.48	8.67	10.55	11.63	12.54	13.25	14.06
Gross Fixed Capital Formation	4.80	10.32	12.37	12.72	13.90	13.65	14.86	14.42
Stock Change	-0.04	1.13	-0.17	0.59	-0.41	-0.11	1.29	-0.15
Exports of Goods and Services	6.93	13.08	13.79	14.96	16.45	17.81	18.94	19.76
Imports of Goods and Services	7.19	14.38	15.15	15.08	15.49	15.48	18.91	19.57
Real GDP & its Components (Billions of 1995 NZD) *1								
Gross Domestic Product	72.10	83.72	84.37	86.14	86.49	86.38	86.86	86.85
Household Final Consumption Expenditure, etc.	44.20	47.61	48.24	50.19	51.34	52.43	52.74	52.84
General Government Final Consumption Expenditure	14.05	15.05	15.31	15.41	15.63	15.64	16.29	16.47
Gross Fixed Capital Formation	10.68	15.51	16.58	15.63	16.21	15.91	16.80	16.21
Stock Change	0.82	2.56	0.16	0.93	-0.55	-0.25	1.91	0.44
Exports of Goods and Services	16.29	19.63	19.96	22.94	22.40	22.94	22.45	24.08
Imports of Goods and Services	14.24	17.74	18.01	19.98	19.97	19.98	23.16	23.32
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	7.3	6.3	7.4	7.3	8.2	8.0	7.5	8.8
Industry	28.2	30.0	29.4	29.2	27.9	27.4	27.0	25.8
Services, etc.	61.6	58.9	59.3	60.2	56.1	57.1	57.4	57.6
Manufacturing Production Index (2000=100) *2	#N/A	#N/A	#N/A	#N/A	74.6	71.3	70.2	67.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.421	5.518	5.720	5.880	7.195	8.784	8.875	9.394
Imports, c.i.f.	5.473	6.203	5.992	6.063	7.276	7.342	8.784	9.501
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.303	-0.452	-0.061	0.103	0.590	2.173	0.973	0.815
Current Account	-0.973	-3.031	-2.657	-2.826	-2.910	-1.863	-1.525	-1.453
Overall Balance	-1.421	-1.546	-2.037	-2.612	-2.248	-2.921	-1.217	0.179
Foreign Exchange Rate (NZD/USD) *1	1.0267	1.7640	2.0234	1.9132	1.6946	1.5264	1.6721	1.6762
Purchasing Power Parity (NZD/International Dollar) *1	0.9336	1.0670	1.1763	1.3694	1.4851	1.5637	1.5844	1.5758
Price Indices								
GDP Deflator (2000=100) *3	32.5	48.0	54.8	64.8	72.5	78.2	82.2	84.2
Industry Input Price Index (2000=100) *2	35.6	54.1	62.4	66.0	71.3	75.0	80.3	84.1
Consumer Price Index (2000=100) *2	30.2	46.1	53.2	60.2	69.7	74.2	79.7	84.1
Growth Rate (%) *3								
Real GDP	0.90	4.93	0.77	2.09	0.41	-0.13	0.56	-0.02
Population	0.13	0.97	0.57	0.17	0.85	1.36	1.43	1.47
Price								
Industry Input Price Index	22.9	7.1	15.3	5.7	7.9	5.2	7.1	4.7
Consumer Price Index	17.1	6.2	15.4	13.2	15.7	6.4	7.5	5.5

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"

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

: PPP shows Purchasing Power Parity

Major Economic Indicators of New Zealand (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
3.50	3.53	3.57	3.62	3.67	3.73	3.78	3.82	3.84	3.86	3.88	3.94	4.01
51.54	52.11	55.47	58.40	60.82	62.96	63.90	64.15	67.27	69.06	71.33	74.47	77.15
53.18	53.77	57.23	60.26	62.75	64.97	65.93	66.19	69.42	71.26	73.60	76.84	752.74
42.06	40.43	44.04	51.78	60.82	66.84	66.61	54.85	57.46	52.17	52.02	59.93	79.61
14,746	14,754	15,528	16,133	16,556	16,871	16,893	16,816	17,542	17,903	18,381	18,906	19,244
15,216	15,224	16,022	16,646	17,083	17,408	17,431	17,351	18,100	18,472	18,966	19,507	19,856
12,035	11,448	12,329	14,302	16,556	17,909	17,610	14,376	14,982	13,524	13,405	15,214	19,857
72.92	75.27	81.50	87.32	92.68	97.24	100.74	102.46	108.57	114.84	123.74	129.58	137.09
44.49	45.35	47.43	51.18	54.52	58.05	60.52	63.39	65.90	68.91	72.30	77.14	N.A.
14.32	14.86	15.11	15.34	16.38	16.98	18.44	18.75	20.16	20.24	21.72	22.75	N.A.
11.97	12.57	15.03	17.75	19.89	20.88	20.61	19.72	21.84	22.34	24.53	26.63	N.A.
-0.09	0.62	1.43	1.17	1.18	0.81	0.82	0.27	1.54	1.38	2.01	0.67	N.A.
21.49	23.70	25.08	26.95	27.13	27.53	28.53	30.47	33.60	41.27	43.60	41.84	N.A.
19.25	21.87	22.71	25.33	26.42	27.01	28.18	30.13	34.46	39.30	39.91	39.91	N.A.
85.70	86.65	92.23	97.11	101.13	104.70	106.25	106.67	111.87	114.84	118.60	123.83	128.29
52.01	52.24	54.20	57.56	59.68	62.34	63.71	65.32	67.77	68.91	70.87	73.99	N.A.
16.40	16.55	16.84	17.00	17.83	18.08	19.66	19.25	20.66	20.24	21.17	21.65	N.A.
13.34	13.64	16.09	18.62	20.63	21.80	21.60	20.71	22.48	22.34	23.72	25.98	N.A.
-0.21	1.06	1.87	1.79	1.64	1.15	0.97	0.31	1.92	1.38	1.80	1.29	N.A.
26.46	27.33	29.22	31.69	32.41	33.93	35.25	36.36	38.91	41.27	42.08	45.04	N.A.
22.48	24.11	25.95	29.70	31.74	33.81	34.68	35.39	39.45	39.30	40.24	44.02	N.A.
9.0	7.8	8.6	8.2	8.5	8.8	8.8	8.3	8.4	8.3	8.2	8.0	N.A.
25.2	25.3	25.4	25.6	25.3	25.3	25.0	24.1	24.1	23.5	22.8	23.4	N.A.
58.6	59.8	58.8	58.5	58.8	58.7	59.5	60.9	60.3	61.1	61.9	61.5	N.A.
64.9	67.2	71.4	75.8	95.1	97.0	97.5	94.4	96.3	100.0	100.3	105.5	106.6
9.619	9.785	10.542	12.185	13.645	14.360	14.221	12.070	12.455	13.272	13.730	14.380	16.496
8.381	9.201	9.636	11.913	13.957	14.724	14.519	12.495	14.299	13.906	13.308	15.047	18.554
2.070	1.627	1.719	1.408	0.971	0.523	0.903	0.912	-0.371	0.680	1.471	0.166	-0.456
-1.159	-1.071	-0.746	-2.384	-3.003	-3.891	-4.304	-2.157	-3.515	-2.462	-1.253	-2.235	-3.357
-1.511	0.131	-0.074	0.733	0.384	1.772	-1.442	-0.486	0.188	-0.143	-0.187	1.086	0.783
1.7335	1.8618	1.8505	1.6865	1.5239	1.4548	1.5124	1.8682	1.8896	2.2011	2.3788	2.1622	1.7221
1.4939	1.4958	1.4744	1.4731	1.4769	1.4531	1.4767	1.5032	1.4779	1.4877	1.5306	1.5098	1.5142
85.1	86.9	88.4	89.9	91.6	92.9	94.8	96.1	97.1	100.0	104.3	104.6	106.9
84.8	86.5	88.7	89.8	90.5	91.1	91.4	92.0	93.0	100.0	106.0	106.2	105.3
85.5	86.4	87.6	89.7	93.1	95.2	96.3	97.6	97.4	100.0	102.6	105.4	107.2
-1.32	1.10	6.45	5.29	4.13	3.53	1.48	0.40	4.87	2.66	3.28	4.41	3.60
1.37	1.05	1.15	1.34	1.47	1.60	1.35	0.86	0.53	0.59	0.59	1.51	1.78
0.9	2.1	2.4	1.3	0.8	0.6	0.4	0.7	1.0	7.6	6.0	0.2	-0.8
1.7	1.0	1.4	2.4	3.7	2.3	1.2	1.3	-0.1	2.6	2.6	2.7	1.8

Original Table (Energy Demand and Supply) of New Zealand in 2003

Year:2003

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	5,179.91	kt	0.0250	PJ/kt	129.35	PJ
HARD COAL	4,927.58	kt	0.0255	PJ/kt	125.48	PJ
COKING COAL	2,351.02	kt	0.0299	PJ/kt	70.38	PJ
SUBBITUMINOUS COAL	2,576.56	kt	0.0214	PJ/kt	55.10	PJ
LIGNITE	252.34	kt	0.0153	PJ/kt	3.87	PJ
CRUDE OIL AND NGL/CONDENSATE	1,052.80	kt	0.0444	PJ/kt	46.76	PJ
LPG	176.32	kt	0.0473	PJ/kt	8.33	PJ
NATURAL GAS AND LNG	4,601.20	Mm ³	0.0351	PJ/Mm ³	161.53	PJ
NATURAL GAS	4,601.20	Mm ³	0.0351	PJ/Mm ³	161.53	PJ
HYDRO POWER	23,689.46	GWh	0.0036	PJ/GWh	85.28	PJ
GEOTHERMAL POWER	2,768.58	GWh	0.0360	PJ/GWh	99.67	PJ
WIND	146.11	GWh	0.0036	PJ/GWh	0.53	PJ
GEOTHERMAL HEAT	19.48	GWh	1.0000	PJ/GWh	19.48	PJ
OTHERS	14,131.68	GWh	0.0036	PJ/GWh	50.87	PJ
TOTAL PRODUCTION					601.80	PJ
OPENING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	461.00	kt	0.0442	PJ/kt	20.39	PJ
LPG	2.00	kt	0.0473	PJ/kt	0.09	PJ
NAPHTHA & FEEDSTOCKS	49.00	kt	0.0448	PJ/kt	2.20	PJ
MOGAS	194.00	kt	0.0447	PJ/kt	8.66	PJ
JET FUEL	71.00	kt	0.0441	PJ/kt	3.13	PJ
DIESEL OIL	174.00	kt	0.0436	PJ/kt	7.58	PJ
FUEL OIL	70.00	kt	0.0418	PJ/kt	2.93	PJ
OTHER PETROLEUM PRODUCTS	99.00	kt	0.0364	PJ/kt	3.61	PJ
NATURAL GAS AND LNG	5.85	Mm ³	0.0351	PJ/Mm ³	0.21	PJ
NATURAL GAS	5.85	Mm ³	0.0351	PJ/Mm ³	0.21	PJ
TOTAL OPENING STOCKS					48.80	PJ
CLOSING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	480.00	kt	0.0442	PJ/kt	21.23	PJ
NAPHTHA & FEEDSTOCKS	54.00	kt	0.0448	PJ/kt	2.42	PJ
MOGAS	186.00	kt	0.0447	PJ/kt	8.31	PJ
JET FUEL	70.00	kt	0.0441	PJ/kt	3.08	PJ
DIESEL OIL	197.00	kt	0.0436	PJ/kt	8.58	PJ
FUEL OIL	76.00	kt	0.0418	PJ/kt	3.18	PJ
OTHER PETROLEUM PRODUCTS	77.00	kt	0.0364	PJ/kt	2.81	PJ
NATURAL GAS AND LNG	6.02	Mm ³	0.0351	PJ/Mm ³	0.21	PJ
NATURAL GAS	6.02	Mm ³	0.0351	PJ/Mm ³	0.21	PJ
TOTAL CLOSING STOCKS					49.82	PJ
STOCK CHANGE						
CRUDE OIL AND NGL/CONDENSATE	19.00	kt	0.0442	PJ/kt	0.84	PJ
LPG	-2.00	kt	0.0473	PJ/kt	-0.09	PJ
NAPHTHA & FEEDSTOCKS	5.00	kt	0.0448	PJ/kt	0.22	PJ
MOGAS	-8.00	kt	0.0447	PJ/kt	-0.36	PJ
JET FUEL	-1.00	kt	0.0441	PJ/kt	-0.04	PJ
DIESEL OIL	23.00	kt	0.0436	PJ/kt	1.00	PJ
FUEL OIL	6.00	kt	0.0418	PJ/kt	0.25	PJ
OTHER PETROLEUM PRODUCTS	-22.00	kt	0.0364	PJ/kt	-0.80	PJ
NATURAL GAS AND LNG	0.18	Mm ³	0.0351	PJ/Mm ³	0.01	PJ
NATURAL GAS	0.18	Mm ³	0.0351	PJ/Mm ³	0.01	PJ
TOTAL STOCK CHANGE					1.03	PJ
IMPORTS						
COAL	480.75	kt	0.0236	PJ/kt	11.33	PJ
HARD COAL	480.73	kt	0.0236	PJ/kt	11.33	PJ
COKING COAL	151.27	kt	0.0283	PJ/kt	4.29	PJ
SUBBITUMINOUS COAL	329.45	kt	0.0214	PJ/kt	7.05	PJ
LIGNITE	0.02	kt	0.0153	PJ/kt	0.00	PJ
COKE	5.23	kt	0.0145	PJ/kt	0.08	PJ
CRUDE OIL AND NGL/CONDENSATE	4,674.68	kt	0.0442	PJ/kt	206.78	PJ
LPG	10.94	kt	0.0473	PJ/kt	0.52	PJ
NAPHTHA & FEEDSTOCKS	370.27	kt	0.0448	PJ/kt	16.61	PJ
MOGAS	775.83	kt	0.0447	PJ/kt	34.64	PJ
JET FUEL	192.04	kt	0.0441	PJ/kt	8.46	PJ
DIESEL OIL	332.69	kt	0.0436	PJ/kt	14.50	PJ
FUEL OIL	26.58	kt	0.0418	PJ/kt	1.11	PJ
OTHER PETROLEUM PRODUCTS	171.81	kt	0.0364	PJ/kt	6.26	PJ
TOTAL IMPORTS					300.28	PJ
EXPORTS						
COAL	2,210.03	kt	0.0300	PJ/kt	66.32	PJ
HARD COAL	2,210.03	kt	0.0300	PJ/kt	66.32	PJ
COKING COAL	2,210.03	kt	0.0300	PJ/kt	66.32	PJ
COKE	3.20	kt	0.0145	PJ/kt	0.05	PJ
CRUDE OIL AND NGL/CONDENSATE	898.83	kt	0.0442	PJ/kt	39.76	PJ
LPG	25.02	kt	0.0473	PJ/kt	1.18	PJ
MOGAS	13.19	kt	0.0447	PJ/kt	0.59	PJ
DIESEL OIL	6.52	kt	0.0436	PJ/kt	0.28	PJ
FUEL OIL	42.10	kt	0.0418	PJ/kt	1.76	PJ
TOTAL EXPORTS					109.95	PJ
INTERNATIONAL MARINE BUNKERS	248.30	kt	0.0422	PJ/kt	10.48	PJ
TOTAL PRIMARY ENERGY SUPPLY					782.69	PJ

Original Table (Energy Demand and Supply) of New Zealand in 2003 (Continued)

Year:2003

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
CRUDE OIL AND NGL/CONDENSATE	11,164.97	kt	0.0204	PJ/kt	227.80	PJ
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
COAL	1,520.41	kt	0.0214	PJ/kt	32.57	PJ
HARD COAL	1,520.41	kt	0.0214	PJ/kt	32.57	PJ
NATURAL GAS AND LNG	1,572.75	Mm ³	0.0351	PJ/Mm ³	55.21	PJ
NATURAL GAS	1,572.75	Mm ³	0.0351	PJ/Mm ³	55.21	PJ
HYDRO POWER	23,689.46	GWh	0.0036	PJ/GWh	85.28	PJ
GEOTHERMAL POWER	2,722.93	GWh	0.0360	PJ/GWh	98.03	PJ
WIND	146.11	GWh	0.0036	PJ/GWh	0.53	PJ
OTHER POWER	313.07	GWh	0.0036	PJ/GWh	1.13	PJ
POWER GENERATION (AUTO PRODUCERS)						
COAL	41.60	kt	0.0214	PJ/kt	0.89	PJ
HARD COAL	41.60	kt	0.0214	PJ/kt	0.89	PJ
NATURAL GAS AND LNG	730.04	Mm ³	0.0351	PJ/Mm ³	25.63	PJ
NATURAL GAS	730.04	Mm ³	0.0351	PJ/Mm ³	25.63	PJ
GEOTHERMAL POWER	45.65	GWh	0.0360	PJ/GWh	1.64	PJ
OTHER POWER	5,958.42	GWh	0.0036	PJ/GWh	21.45	PJ
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
REFINING						
MOGAS	1,520.49	kt	0.0446	PJ/kt	67.87	PJ
JET FUEL	835.32	kt	0.0441	PJ/kt	36.80	PJ
DIESEL OIL	1,852.00	kt	0.0437	PJ/kt	80.89	PJ
FUEL OIL	524.89	kt	0.0419	PJ/kt	22.00	PJ
OTHER PETROLEUM PRODUCTS	163.42	kt	0.0354	PJ/kt	5.78	PJ
GAS RECOVERING						
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	11,142.57	GWh	0.0036	PJ/GWh	40.11	PJ
COAL	3,246.86	GWh	0.0036	PJ/GWh	11.69	PJ
GAS	7,895.71	GWh	0.0036	PJ/GWh	28.42	PJ
HYDRO POWER	23,689.46	GWh	0.0036	PJ/GWh	85.28	PJ
GEOTHERMAL POWER	2,722.93	GWh	0.0036	PJ/GWh	9.80	PJ
WIND	146.11	GWh	0.0036	PJ/GWh	0.53	PJ
OTHER POWER	93.92	GWh	0.0036	PJ/GWh	0.34	PJ
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	2,451.19	GWh	0.0036	PJ/GWh	8.82	PJ
COAL	78.17	GWh	0.0036	PJ/GWh	0.28	PJ
GAS	2,373.02	GWh	0.0036	PJ/GWh	8.54	PJ
GEOTHERMAL POWER	45.65	GWh	0.0036	PJ/GWh	0.16	PJ
OTHER POWER	935.06	GWh	0.0036	PJ/GWh	3.37	PJ
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COAL	76.25	kt	0.0249	PJ/kt	1.90	PJ
HARD COAL	76.25	kt	0.0249	PJ/kt	1.90	PJ
LPG	17.19	kt	0.0473	PJ/kt	0.81	PJ
MOGAS	36.83	kt	0.0447	PJ/kt	1.64	PJ
JET FUEL	7.07	kt	0.0441	PJ/kt	0.31	PJ
DIESEL OIL	20.97	kt	0.0436	PJ/kt	0.91	PJ
FUEL OIL	40.51	kt	0.0418	PJ/kt	1.69	PJ
OTHER PETROLEUM PRODUCTS	8.34	kt	0.0364	PJ/kt	0.30	PJ
NATURAL GAS AND LNG	168.13	Mm ³	0.0351	PJ/Mm ³	5.90	PJ
NATURAL GAS	168.13	Mm ³	0.0351	PJ/Mm ³	5.90	PJ
GEOTHERMAL HEAT	6.00	PJ	1.0000	PJ/PJ	6.00	PJ
ELECTRICITY	2,870.56	GWh	0.0036	PJ/GWh	10.33	PJ
TOTAL LOSSES AND OWN USE					29.82	PJ
FINAL ENERGY CONSUMPTION TOTAL						
COAL	1,877.11	kt	0.0234	PJ/kt	43.93	PJ
HARD COAL	1,580.02	kt	0.0249	PJ/kt	39.37	PJ
LIGNITE	297.09	kt	0.0153	PJ/kt	4.56	PJ
LPG	137.44	kt	0.0473	PJ/kt	6.50	PJ
MOGAS	2,325.11	kt	0.0447	PJ/kt	103.82	PJ
JET FUEL	1,106.50	kt	0.0441	PJ/kt	48.74	PJ
DIESEL OIL	2,262.77	kt	0.0436	PJ/kt	98.61	PJ
FUEL OIL	123.41	kt	0.0418	PJ/kt	5.16	PJ
OTHER PETROLEUM PRODUCTS	263.98	kt	0.0431	PJ/kt	11.39	PJ
NATURAL GAS AND LNG	2,217.05	Mm ³	0.0351	PJ/Mm ³	77.83	PJ
NATURAL GAS	2,217.05	Mm ³	0.0351	PJ/Mm ³	77.83	PJ
GEOTHERMAL HEAT	3,744.45	PJ	0.0036	PJ/PJ	13.48	PJ
ELECTRICITY	35,219.75	GWh	0.0036	PJ/GWh	126.79	PJ
OTHERS	7,916.95	GWh	0.0036	PJ/GWh	28.50	PJ
TOTAL					564.74	PJ
AGRICULTURE						
COAL	21.24	kt	0.0249	PJ/kt	0.53	PJ
HARD COAL	21.24	kt	0.0249	PJ/kt	0.53	PJ
MOGAS	26.02	kt	0.0447	PJ/kt	1.16	PJ
JET FUEL	3.80	kt	0.0441	PJ/kt	0.17	PJ
DIESEL OIL	302.72	kt	0.0436	PJ/kt	13.19	PJ
FUEL OIL	30.97	kt	0.0418	PJ/kt	1.29	PJ

Original Table (Energy Demand and Supply) of New Zealand in 2003 (Continued)

Year:2003

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	1,428.33	GWh	0.0036	PJ/GWh	5.14	PJ
TOTAL					21.49	PJ
RESIDENTIAL COMMERCIAL						
COAL	216.30	kt	0.0220	PJ/kt	4.76	PJ
HARD COAL	150.93	kt	0.0249	PJ/kt	3.76	PJ
LIGNITE	65.37	kt	0.0153	PJ/kt	1.00	PJ
LPG	59.84	kt	0.0473	PJ/kt	2.83	PJ
MOGAS	2.02	kt	0.0447	PJ/kt	0.09	PJ
JET FUEL	13.65	kt	0.0441	PJ/kt	0.60	PJ
DIESEL OIL	57.66	kt	0.0436	PJ/kt	2.51	PJ
FUEL OIL	17.68	kt	0.0418	PJ/kt	0.74	PJ
NATURAL GAS AND LNG	502.66	Mm ³	0.0351	PJ/Mm ³	17.65	PJ
NATURAL GAS	502.66	Mm ³	0.0351	PJ/Mm ³	17.65	PJ
GEOTHERMAL HEAT	612.78	PJ	0.0036	PJ/PJ	2.21	PJ
ELECTRICITY	18,867.52	GWh	0.0036	PJ/GWh	67.92	PJ
OTHERS	746.95	GWh	0.0036	PJ/GWh	2.69	PJ
TOTAL					102.00	PJ
OTHERS						
TOTAL						PJ
INDUSTRY						
COAL	1,636.53	kt	0.0236	PJ/kt	38.56	PJ
HARD COAL	1,404.80	kt	0.0249	PJ/kt	35.01	PJ
LIGNITE	231.72	kt	0.0153	PJ/kt	3.55	PJ
LPG	55.30	kt	0.0473	PJ/kt	2.61	PJ
MOGAS	3.15	kt	0.0447	PJ/kt	0.14	PJ
JET FUEL	4.59	kt	0.0441	PJ/kt	0.20	PJ
DIESEL OIL	239.95	kt	0.0436	PJ/kt	10.46	PJ
FUEL OIL	7.11	kt	0.0418	PJ/kt	0.30	PJ
NATURAL GAS AND LNG	542.73	Mm ³	0.0351	PJ/Mm ³	19.05	PJ
NATURAL GAS	542.73	Mm ³	0.0351	PJ/Mm ³	19.05	PJ
GEOTHERMAL HEAT	3,131.67	PJ	0.0036	PJ/PJ	11.27	PJ
ELECTRICITY	14,383.90	GWh	0.0036	PJ/GWh	51.78	PJ
OTHERS	7,170.01	GWh	0.0036	PJ/GWh	25.81	PJ
TOTAL					160.19	PJ
TRANSPORT						
COAL	3.05	kt	0.0249	PJ/kt	0.08	PJ
HARD COAL	3.05	kt	0.0249	PJ/kt	0.08	PJ
LPG	22.31	kt	0.0473	PJ/kt	1.05	PJ
MOGAS	2,293.91	kt	0.0447	PJ/kt	102.43	PJ
JET FUEL	1,084.46	kt	0.0441	PJ/kt	47.77	PJ
DIESEL OIL	1,662.44	kt	0.0436	PJ/kt	72.45	PJ
FUEL OIL	67.66	kt	0.0418	PJ/kt	2.83	PJ
NATURAL GAS AND LNG	4.67	Mm ³	0.0351	PJ/Mm ³	0.16	PJ
NATURAL GAS	4.67	Mm ³	0.0351	PJ/Mm ³	0.16	PJ
ELECTRICITY	540.00	GWh	0.0036	PJ/GWh	1.94	PJ
TOTAL					228.71	PJ
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	263.98	kt	0.0431	PJ/kt	11.39	PJ
NATURAL GAS AND LNG	1,166.99	Mm ³	0.0351	PJ/Mm ³	40.97	PJ
NATURAL GAS	1,166.99	Mm ³	0.0351	PJ/Mm ³	40.97	PJ
TOTAL NON-ENERGY USE					52.35	PJ

Notes:

a Using average gross and net calorific values.

1. Crude oil and NGL/Condensate production include naphtha production.

2. Naphtha includes naphtha and feedstocks.

3. Other power/Others includes electricity generation from biogas, industrial waste and wood. Wood supply and demand are estimated.

4. Calendar year figures for energy consumption presented are actual data except for gas, electricity, biogas, industrial waste and wood.

- coal consumption excludes coal used for cogeneration by industrial sector - definition changes since this new format 1999.

- gas consumption excludes gas used for cogeneration by industrial and commercial sectors - definition changes since this new format 1999.

- electricity consumption excludes electricity generated and consumed by cogeneration plants.

5. Final Energy Consumption excludes international marine bunkers.

6. Transport sector excludes international marine bunkers. Jet fuel includes international air transport.

7. Calendar year data for electricity generation includes estimates of the generation (except for years ending March) for Electricity Corporation of New Zealand Limited, Genesis Power Limited, Meridian Energy Limited, Mighty River Power Limited, Contact Energy, Electricity Companies and The Cogeneration Association of New Zealand.

8. Assuming efficiency of 10% for geothermal as discussed at the Workshop on Energy Statistics in APEC Region, 8th & 9th July 2002 in Tokyo.

9. Diesel oil includes automotive gas oil, marine diesel, blended heating oil, light fuel oil and light bunker fuel oil.

10. Fuel oil includes heavy fuel oil and heavy bunker fuel oil.

Original Table (Energy Demand and Supply) of New Zealand in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of March Year 2004
unit: MW

THERMAL POWER	2159.37	
COAL	633.53	
OIL	-	
GAS	1525.84	
HYDRO POWER	5315.9	
NUCLEAR POWER		
GEOHERMAL POWER	423	
OTHERS (WIND, TIDE, PHOTVOLTAIC)	36.23	
OTHERS (BIOMASS, MUNICIPAL WASTE)	16	
COGENERATION	564.19	
COAL	14.4	
OIL	-	
GAS	396.83	
GEOHERMAL POWER	8	
OTHERS (BIOMASS, MUNICIPAL WASTE)	144.96	

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	85.3%
CRUDE DISTILLATION CAPACITY	1000BD	104.2
VACUUM DISTILLATION CAPACITY	1000BD	46.1
HYDROCRACKING CAPACITY	1000BD	30.4
KEROSENE HYDRODESULPHURISING CAPACITY	1000BD	14.5
GASOIL HYDRODESULPHURISING CAPACITY	1000BD	6.7
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	27.6

(*1) crude throughput/distillation capacity

Note: 1000BD - Thousand barrel per day

Source: The New Zealand Refining Company Ltd

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					Not applicable
INDIGENOUS PRODUCTION					Not applicable
IMPORTS					Not applicable
EXPORTS					Not applicable
TOTAL					Not applicable
TRANSFORMATION (INPUT)					Not applicable
TRANSFORMATION (OUTPUT)					Not applicable
FINAL ENERGY CONSUMPTION					Not applicable
AGRICULTURE					Not applicable
RESIDENTIAL COMMERCIAL					Not applicable
INDUSTRY					Not applicable
TRANSPORT					Not applicable
TOTAL					Not applicable

Original Table (Disaggregated Final Energy Demand) of New Zealand in 2003

Calendar Year 2003

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
1 INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	669.04	Ktonnes	0.0262	PJ/Ktonnes	17.55	PJ
DIESEL OIL	0.03	Ktonnes	0.0460	PJ/Ktonnes	0.00	PJ
ELECTRICITY	5,950.56	GWh	0.0036	PJ/GWh	21.42	PJ
TOTAL					38.97	PJ
1.2 CHEMICAL AND PETROCHEMICAL						
1.3 NON-FERROUS METALS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS						
ELECTRICITY	251.39	GWh	0.0036	PJ/GWh	0.91	PJ
TOTAL					0.91	PJ
1.5 PAPER, PULP AND PRINTING						
ELECTRICITY	3,829.44	GWh	0.0036	PJ/GWh	13.79	PJ
TOTAL					13.79	PJ
1.6 OTHER INDUSTRIES						
COAL*	878.35	Ktonnes	0.0262	PJ/Ktonnes	23.04	PJ
LPG	55.30	Ktonnes	0.0498	PJ/Ktonnes	2.75	PJ
MOGAS	3.15	Ktonnes	0.0470	PJ/Ktonnes	0.15	PJ
JET FUEL	4.59	Ktonnes	0.0464	PJ/Ktonnes	0.21	PJ
DIESEL OIL	239.36	Ktonnes	0.0460	PJ/Ktonnes	11.01	PJ
FUEL OIL	7.09	Ktonnes	0.0441	PJ/Ktonnes	0.31	PJ
NATURAL GAS/LNG	542.73	Mm3	0.0390	PJ/Mm3	21.17	PJ
NATURAL GAS*	542.73	Mm3	0.0390	PJ/Mm3	21.17	PJ
GEOTHERMAL HEAT	3,131.67	GWh	0.0036	PJ/GWh	11.27	PJ
ELECTRICITY	3,728.33	GWh	0.0036	PJ/GWh	13.42	PJ
OTHERS	7,170.00	GWh	0.0036	PJ/GWh	25.81	PJ
TOTAL					109.15	PJ
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	1,084.46	Ktonnes	0.0464	PJ/Ktonnes	50.29	PJ
ELECTRICITY	54.00	GWh	0.0036	PJ/GWh	0.19	PJ
TOTAL					50.48	PJ
2.2 ROAD						
LPG	22.31	Ktonnes	0.0498	PJ/Ktonnes	1.11	PJ
MOGAS	2,293.91	Ktonnes	0.0470	PJ/Ktonnes	107.82	PJ
DIESEL OIL	1,658.54	Ktonnes	0.0460	PJ/Ktonnes	76.26	PJ
FUEL OIL	67.46	Ktonnes	0.0441	PJ/Ktonnes	2.98	PJ
NATURAL GAS	4.67	Mm3	0.0390	PJ/Mm3	0.18	PJ
ELECTRICITY	221.40	GWh	0.0036	PJ/GWh	0.80	PJ
TOTAL					189.14	PJ
2.3 RAIL						
COAL	3.05	Ktonnes	0.0262	PJ/Ktonnes	0.08	PJ
ELECTRICITY	86.40	GWh	0.0036	PJ/GWh	0.31	PJ
TOTAL					0.39	PJ
2.4 INTERNAL NAVIGATION						
ELECTRICITY	21.60	GWh	0.0036	PJ/GWh	0.08	PJ
TOTAL					0.08	PJ
2.5 OTHER TRANSPORT, AND SERVICE TO TRANSPORT						
ELECTRICITY	156.60	GWh	0.0036	PJ/GWh	0.56	PJ
TOTAL					0.56	PJ
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
COAL	159.36	Ktonnes	0.0262	PJ/Ktonnes	4.18	PJ
LPG	21.33	Ktonnes	0.0498	PJ/Ktonnes	1.06	PJ
MOGAS	1.96	Ktonnes	0.0470	PJ/Ktonnes	0.09	PJ
KEROSENE	13.63	Ktonnes	0.0464	PJ/Ktonnes	0.63	PJ
DIESEL OIL	57.44	Ktonnes	0.0460	PJ/Ktonnes	2.64	PJ
FUEL OIL	17.62	Ktonnes	0.0441	PJ/Ktonnes	0.78	PJ
NATURAL GAS*	326.51	Mm3	0.0390	PJ/Mm3	12.74	PJ
OTHER COMMERCIAL	47.50	GWh	0.0036	PJ/GWh	0.17	PJ
ELECTRICITY	6,853.33	GWh	0.0036	PJ/GWh	24.67	PJ
TOTAL					46.96	PJ
3.2 RESIDENTIAL						
COAL	31.83	Ktonnes	0.0262	PJ/Ktonnes	0.84	PJ
LPG	38.51	Ktonnes	0.0498	PJ/Ktonnes	1.92	PJ
MOGAS	0.06	Ktonnes	0.0470	PJ/Ktonnes	0.00	PJ
KEROSENE	0.02	Ktonnes	0.0464	PJ/Ktonnes	0.00	PJ
DIESEL OIL	0.09	Ktonnes	0.0460	PJ/Ktonnes	0.00	PJ
NATURAL GAS	176.15	Mm3	0.0390	PJ/Mm3	6.87	PJ

Original Table (Disaggregated Final Energy Demand) of New Zealand in 2003 (Continued)

Calendar Year 2003

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
GEOHERMAL	612.78	GWh	0.0036	PJ/GWh	2.21	PJ
OTHER COMMERCIAL	699.44	GWh	0.0036	PJ/GWh	2.52	PJ
ELECTRICITY	12,014.17	GWh	0.0036	PJ/GWh	43.25	PJ
TOTAL					57.61	PJ

Notes:

* Excludes cogeneration.

Original Table (Energy Price) of New Zealand in 2003

Year: 2003

New Zealand	Unit	Price New Zealand\$	Note
IMPORT CIF PRICES			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL	bbbl	51.9	Dubai crude
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS	litre	0.4	91 RON
JET FUEL			
KEROSENE			
DIESEL OIL	litre	0.4	
FUEL OIL			
NATURAL GAS (LNG)			
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	litre	1.0	91 RON
JET FUEL			
KEROSENE			
DIESEL OIL	litre	0.6	
FUEL OIL	litre	0.5	
LPG			
ELECTRICITY (INDUSTRY)	kWh	0.1	
ELECTRICITY (COMMERCIAL)	kWh	0.1	
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS	GJ	19.1	residential
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	litre	1.1	91 RON
KEROSENE			
DIESEL OIL	litre	0.6	
LPG			
ELECTRICITY (RESIDENTIAL)	kWh	0.2	

Original Table (Quarterly) of New Zealand in 2004

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	1st quarter	1,107	-	381	-
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	2nd quarter	1,300	-	400	-
	JUL.	-	-	-	-
	AUG.	-	-	-	-
	SEP.	-	-	-	-
	3rd quarter	1,343	-	541	-
	OCT.	-	-	-	-
	NOV.	-	-	-	-
	DEC.	-	-	-	-
	4th quarter	1,327	-	525	-
	5,077	-	1,847	-	

Oil		Unit: 1,000kL						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.							
	FEB.							
	MAR.							
	1st quarter	250	1,222	171	-210	664	22	125
	APR.							
	MAY.							
	JUN.							
	2nd quarter	258	1,413	239	212	759	22	33
	JUL.							
	AUG.							
	SEP.							
	3rd quarter	284	1,274	198	-162	501		68
	OCT.							
	NOV.							
	DEC.							
	4th quarter	268	1,536	230	-85	414	22	-11
	1,060	5,445	838	-245	2,338	65	215	

Original Table (Quarterly) of New Zealand in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000m ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	-	-	-	-	-
	FEB.	-	-	-	-	-
	MAR.	-	-	-	-	-
	1st quarter	988,225	-	-	-	987
	APR.	-	-	-	-	-
	MAY.	-	-	-	-	-
	JUN.	-	-	-	-	-
	2nd quarter	1,022,630	-	-	-	-128
	JUL.	-	-	-	-	-
	AUG.	-	-	-	-	-
	SEP.	-	-	-	-	-
	3rd quarter	1,115,051	-	-	-	-308
	OCT.	-	-	-	-	-
	NOV.	-	-	-	-	-
	DEC.	-	-	-	-	-
	4th quarter	988,225	-	-	-	987
		4,114,130	-	-	-	1,538

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	1st quarter	10,197	2,318	6,824	-	1,055	-	-
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	2nd quarter	10,079	3,175	6,250	-	654	-	-
	JUL.	-	-	-	-	-	-	-
	AUG.	-	-	-	-	-	-	-
	SEP.	-	-	-	-	-	-	-
	3rd quarter	10,947	2,629	7,631	-	686	-	-
	OCT.	-	-	-	-	-	-	-
	NOV.	-	-	-	-	-	-	-
	DEC.	-	-	-	-	-	-	-
	4th quarter	10,197	2,318	6,824	-	1,055	-	-
		41,420	10,440	27,530	-	3,450	-	-

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.13 Papua New Guinea

Energy Balance Table of Papua New Guinea in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	-	-	2,427	-	-	-	-	-	-
2 Import	-	-	-	1,340	99	9	79	39	641
3 Export	-	-	-2,427	-	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	-	-	-	1,340	99	9	79	39	641
7 Public Electricity	-	-	-	-210	-	-	-	-	-30
8 Autoproducers of Electricity	-	-	-	-291	-	-	-	-	-44
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-	-	-	-	-	-	-
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	-	-	-	0	-	-	-	-	0
14 Total Final Energy Consumption	-	-	-	839	99	9	79	39	567
15 Industry Sector	-	-	-	412	-	9	-	-	377
16 Transport Sector	-	-	-	374	99	-	79	-	190
17 Other Sector	-	-	-	41	-	-	-	39	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	-	-	-	41	-	-	-	39	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	12	-	-	-	-	-

Note: Estimated by Coording Agency.

Energy Balance Table of Papua New Guinea in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	-	-	2,552	-	-	-	-	-	-
2 Import	-	-	-	1,170	91	9	73	36	588
3 Export	-	-	-2,552	-	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	-	-	-	1,170	91	9	73	36	588
7 Public Electricity	-	-	-	-158	-	-	-	-	-22
8 Autoproducers of Electricity	-	-	-	-238	-	-	-	-	-41
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-	-	-	-	-	-	-
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	-	-	-	0	-	-	-	-	0
14 Total Final Energy Consumption	-	-	-	774	91	9	73	36	525
15 Industry Sector	-	-	-	380	-	9	-	-	350
16 Transport Sector	-	-	-	344	91	-	73	-	175
17 Other Sector	-	-	-	38	-	-	-	36	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	-	-	-	38	-	-	-	36	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	12	-	-	-	-	-

Note: Estimated by Coording Agency.

Energy Balance Table of Papua New Guinea in 2003 (Continued)

4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	132	-	80	-	-	-	-	-	2,640
448	13	-	12	-	-	-	-	-	-	-	-	1,340
-	-	-	-	-	-	-	-	-	-	-	-	-2,427
-	-	-	-	-	-	-	-	-	-	-	-	-
448	13	-	12	132	-	80	-	-	-	-	-	1,553
-179	-	-	-	-	-	-47	-	-	-	118	-	-139
-248	-	-	-	-132	-	-33	-	-	-	155	-	-301
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-17	-	-17
0	0	-	-	0	-	0	-	-	-	0	-	0
21	13	-	12	-	-	-	-	-	-	256	-	1,095
15	11	-	-	-	-	-	-	-	-	189	-	601
6	-	-	-	-	-	-	-	-	-	-	-	374
-	2	-	-	-	-	-	-	-	-	67	-	108
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2	-	-	-	-	-	-	-	-	67	-	108
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	12	-	-	-	-	-	-	-	-	12

Energy Balance Table of Papua New Guinea in 2002 (Continued)

4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	144	-	80	-	-	-	-	-	2,776
350	11	-	12	-	-	-	-	-	-	-	-	1,170
-	-	-	-	-	-	-	-	-	-	-	-	-2,552
-	-	-	-	-	-	-	-	-	-	-	-	-
350	11	-	12	144	-	80	-	-	-	-	-	1,394
-136	-	-	-	-	-	-47	-	-	-	104	-	-101
-197	-	-	-	-137	-	-33	-	-	-	144	-	-264
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-14	-	-14
0	0	-	-	-7	-	0	-	-	-	0	-	-7
17	11	-	12	-	-	-	-	-	-	234	-	1,008
12	9	-	-	-	-	-	-	-	-	172	-	552
5	-	-	-	-	-	-	-	-	-	-	-	344
-	2	-	-	-	-	-	-	-	-	62	-	100
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2	-	-	-	-	-	-	-	-	62	-	100
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	12	-	-	-	-	-	-	-	-	12

Major Energy Indicators of Papua New Guinea

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	631	659	737	729	818	764	781	864	914
Indigenous Production	27	35	36	39	38	38	39	4,611	5,111
Import	625	695	749	713	813	760	783	796	748
Export	-	-26	-29	-	-6	-5	-10	-4,512	-4,915
Final Energy Consumption	441	510	512	519	557	547	532	613	615
Industry	161	216	214	177	194	190	190	190	191
Transport	211	225	228	205	222	219	204	209	210
Residential & Commercial	29	23	23	32	32	32	32	35	36
Agriculture	30	32	33	80	80	80	80	81	80
Coal, Coal Products									
Primary Energy Supply	-	-	1	1	1	1	1	1	1
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	1	1	1	1	1	1	1
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	1	1	1	1
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	-	-	-	-	-	-	-	-	100
Indigenous Production	-	-	-	-	-	-	-	4,500	5,000
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-4,500	-4,900
Transformation Sector	-	-	-	-	-	-	-	-	-55
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Petroleum Products									
Primary Energy Supply	604	624	700	689	779	725	741	752	702
Import	625	695	748	712	812	760	782	795	747
Export	-	-26	-29	-	-6	-5	-10	-12	-15
Transformation Sector	-264	-302	-312	-310	-360	-329	-341	-346	-296
Power Generation	-264	-302	-312	-310	-360	-329	-341	-346	-347
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	338	380	382	381	410	404	389	398	397
Industry	80	113	111	80	90	87	87	87	85
Transport	211	225	228	205	222	219	204	209	210
Residential & Commercial	19	10	10	20	21	21	21	24	25
Agriculture	27	29	30	75	75	75	75	76	75
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	72	72
Indigenous Production	-	-	-	-	-	-	-	72	72
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	72	72
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	-	-	-	-	-	-	-	-	-
Thermal	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	103	130	130	137	147	142	142	142	146
Industry	81	103	103	96	103	103	103	103	105
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	10	12	12	12	11	11	11	11	12
Agriculture	2	3	3	5	5	5	5	5	5

Note: For Papua New Guinea, data are estimation by C.A. based on the data from the UN statistics (prior 1993) and based on the data provided by Papua New Guinea government (after 1994).

Major Energy Indicators of Papua New Guinea (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
895	896	957	921	954	1,029	1,127	1,056	1,123	1,299	1,394	1,553
5,411	5,514	5,882	4,897	5,244	3,776	4,049	4,879	3,866	3,281	2,776	2,640
748	747	774	731	715	828	896	834	908	1,075	1,170	1,340
-5,235	-5,335	-5,678	-4,694	-4,952	-3,566	-3,828	-4,657	-3,651	-3,057	-2,552	-2,427
615	623	654	689	724	717	763	823	880	948	1,008	1,095
189	184	238	271	294	277	325	360	480	515	552	601
210	224	248	251	257	260	251	262	306	328	344	374
38	38	77	79	79	81	83	92	82	93	100	108
80	76	80	77	81	88	94	97	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1	1	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
80	80	9	10	14	12	14	-	-	-	-	-
5,300	5,400	5,709	4,717	5,019	3,586	3,832	4,657	3,651	3,057	2,552	2,427
-	-	-	-	-	-	-	-	-	-	-	-
-5,220	-5,320	-5,678	-4,694	-4,951	-3,564	-3,828	-4,657	-3,651	-3,057	-2,552	-2,427
-55	-55	-17	-24	-29	-32	-28	-	-	-	-	-
-	-	-17	-24	-29	-32	-28	-	-	-	-	-
703	702	774	731	714	826	896	834	908	1,075	1,170	1,340
747	746	774	731	715	828	896	834	908	1,075	1,170	1,340
-15	-15	-	-	-1	-2	-0	-	-	-	-	-
-296	-297	-80	-82	-68	-101	-158	-184	-222	-345	-396	-501
-347	-348	-97	-104	-94	-133	-185	-184	-222	-345	-396	-501
-	-	17	22	26	32	28	-	-	-	-	-
397	402	559	571	592	596	600	651	686	730	774	839
84	79	186	197	208	204	211	239	338	355	380	412
210	224	248	251	257	260	251	262	306	328	344	374
26	26	34	35	33	34	34	41	30	35	38	41
75	71	80	77	81	88	94	97	-	-	-	-
72	74	80	83	117	100	115	113	119	144	144	132
72	74	80	83	117	100	115	113	119	144	144	132
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-11	-83	-117	-108	-141	-137	-119	-137	-137	-132
-	-	-11	-83	-117	-108	-141	-137	-119	-137	-137	-132
72	74	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	111	136	152	140	187	198	204	231	248	273
-	-	42	60	70	79	112	119	124	151	168	193
-	-	69	75	81	61	75	79	80	80	80	80
-	-	-	-	-	-	-	-	-	-	-	-
145	146	94	117	131	120	162	172	194	218	234	256
104	105	52	74	86	74	114	121	142	160	172	189
-	-	-	-	-	-	-	-	-	-	-	-
12	12	42	43	46	46	48	51	52	58	62	67
5	5	-	-	-	-	-	-	-	-	-	-

Major Economic Indicators of Papua New Guinea

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	3.086	3.423	3.515	3.607	3.700	3.793	3.887	3.980
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	2.688	2.767	2.878	3.013	3.097	3.187	3.141	3.047
Real Term (Billions of 1995 Price and 1995 PPP)	6.205	6.387	6.643	6.955	7.147	7.355	7.251	7.032
Nominal (Billions of Current USD)	2.546	2.553	2.423	2.648	3.144	3.656	3.546	3.221
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	871	808	819	835	837	840	808	766
Real Term (1995 Price and 1995 PPP)	2,011	1,866	1,890	1,928	1,932	1,939	1,866	1,767
Nominal (Current USD)	825	746	689	734	850	964	912	809
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	1.708	2.294	2.424	2.572	2.854	3.170	3.046	3.076
Household Final Consumption Expenditure, etc.	1.051	1.456	1.624	1.674	1.815	1.920	1.962	1.816
General Government Final Consumption Expenditure	0.411	0.533	0.569	0.591	0.640	0.663	0.745	0.764
Gross Fixed Capital Formation	0.394	0.548	0.447	0.539	0.551	0.737	0.791	0.773
Stock Change	0.036	0.072	0.034	-0.032	0.034	0.126	-0.083	-0.021
Exports of Goods and Services	0.738	0.905	1.021	1.121	1.232	1.371	1.238	1.250
Imports of Goods and Services	0.911	1.219	1.271	1.321	1.418	1.646	1.606	1.506
Real GDP & its Components (Billions of 1983 PGK) *1								
Gross Domestic Product	2.074	2.135	2.220	2.324	2.389	2.458	2.424	2.351
Household Final Consumption Expenditure, etc.	1.378	1.379	1.492	1.452	1.500	1.504	1.486	1.287
General Government Final Consumption Expenditure	0.569	0.504	0.517	0.511	0.527	0.517	0.548	0.533
Gross Fixed Capital Formation	0.512	0.514	0.391	0.459	0.453	0.572	0.587	0.533
Stock Change	0.045	0.064	0.024	-0.024	0.025	0.102	-0.074	-0.017
Exports of Goods and Services	0.735	0.800	0.898	1.006	0.996	0.981	0.972	0.928
Imports of Goods and Services	1.164	1.124	1.102	1.079	1.111	1.219	1.097	0.913
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	31.4	33.8	31.5	30.6	31.3	31.5	32.4	34.2
Industry	29.5	26.3	28.8	30.5	29.2	29.9	26.1	26.2
Services, etc.	39.1	40.0	39.7	38.9	39.5	38.6	41.5	39.6
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	0.892	0.912	1.033	1.161	1.399	1.404	1.177
Imports, c.i.f.	1.176	1.110	1.008	1.080	1.165	1.393	1.530	1.193
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.035	-0.047	0.051	0.102	0.114	0.091	-0.023	0.069
Current Account	-0.289	-0.290	-0.122	-0.098	-0.198	-0.296	-0.313	-0.076
Overall Balance	-0.084	0.049	-0.001	0.003	0.002	-0.053	-0.059	0.022
Foreign Exchange Rate (PGK/USD) *1	0.6709	0.8986	1.0003	0.9714	0.9079	0.8671	0.8588	0.9550
Purchasing Power Parity (PGK/International Dollar) *1	0.4753	0.4911	0.4818	0.4819	0.4971	0.5227	0.4911	0.4921
Price Indices								
GDP Deflator (1983=100) *3	82.4	107.4	109.2	110.7	119.5	128.9	125.7	130.9
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	30.4	31.5	33.2	34.3	36.2	37.8	40.4
Growth Rate (%) *3								
Real GDP	-2.30	-0.35	4.00	4.69	2.77	2.91	-1.42	-3.01
Population	2.57	2.66	2.68	2.63	2.57	2.52	2.46	2.40
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	12.1	7.4	3.7	5.5	3.3	5.4	4.5	7.0

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"
: PGK shows Kina, USD shows United States Dollar
: PPP shows Purchasing Power Parity

Major Economic Indicators of Papua New Guinea (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
4.078	4.181	4.288	4.401	4.520	4.640	4.761	4.883	5.006	5.130	5.254	5.378	5.502
3.338	3.800	4.492	4.759	4.601	4.957	4.763	4.584	4.930	4.869	4.757	4.719	4.846
7.704	8.771	10.367	10.983	10.619	11.441	10.994	10.580	11.378	11.238	10.979	10.891	752.744
3.788	4.378	4.976	5.321	4.601	5.217	4.912	3.756	3.416	3.420	2.936	2.822	3.425
818	909	1,047	1,081	1,018	1,068	1,001	939	985	949	905	877	881
1,889	2,098	2,417	2,495	2,349	2,466	2,309	2,167	2,273	2,191	2,090	2,025	2,033
929	1,047	1,160	1,209	1,018	1,124	1,032	769	682	667	559	525	622
3.605	4.223	4.867	5.381	5.888	6.881	7.064	7.789	8.781	9.515	9.948	10.992	12.204
2.121	2.144	2.046	2.240	2.454	3.375	4.119	4.619	6.123	N.A.	N.A.	N.A.	N.A.
0.853	1.004	1.199	1.001	1.006	1.370	1.361	1.407	1.488	N.A.	N.A.	N.A.	N.A.
1.010	0.914	0.901	1.012	1.150	1.186	1.079	1.089	1.063	N.A.	N.A.	N.A.	N.A.
-0.022	0.070	-0.043	0.142	0.149	0.375	0.409	0.307	0.377	N.A.	N.A.	N.A.	0.217
1.524	2.021	2.562	3.031	3.675	3.575	3.312	3.942	4.153	6.853	7.038	7.017	8.671
1.880	1.930	1.798	2.044	2.545	3.000	3.217	3.575	4.423	5.971	6.110	6.837	7.323
2.575	2.932	3.465	3.671	3.549	3.824	3.675	3.536	3.803	3.756	3.670	3.640	3.739
1.435	1.547	1.574	1.827	1.507	1.759	2.033	1.928	2.336	N.A.	N.A.	N.A.	N.A.
0.556	0.616	0.722	0.586	0.553	0.730	0.698	0.686	0.691	N.A.	N.A.	N.A.	N.A.
0.653	0.602	0.550	0.584	0.586	0.540	0.461	0.437	0.366	N.A.	N.A.	N.A.	N.A.
-0.018	0.055	-0.032	0.104	0.093	0.210	0.221	0.146	0.156	N.A.	N.A.	N.A.	N.A.
1.075	1.377	1.744	1.918	1.855	1.742	1.457	1.539	1.471	N.A.	N.A.	N.A.	N.A.
1.096	1.063	0.920	0.996	1.046	1.157	1.195	1.199	1.216	N.A.	N.A.	N.A.	N.A.
30.4	28.4	29.0	29.2	30.1	31.1	31.9	29.5	28.6	31.6	30.6	29.3	29.3
31.1	37.2	40.2	38.4	36.3	37.1	32.0	36.5	35.8	34.5	34.1	32.9	32.9
38.5	34.5	30.8	32.5	33.6	31.9	31.1	29.6	30.9	28.8	29.9	30.2	30.2
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1.460	1.927	2.585	2.632	2.654	2.529	2.163	1.772	1.924	2.096	1.813	1.549	2.174
1.614	1.485	1.299	1.522	1.452	1.741	1.711	1.240	1.233	1.151	1.073	1.235	1.297
0.078	0.625	1.470	1.326	1.408	1.017	0.677	0.695	0.856	1.095	0.881	N.A.	N.A.
-0.475	-0.160	0.474	0.402	0.492	0.189	-0.192	-0.029	0.095	0.345	0.282	N.A.	N.A.
-0.409	-0.326	-0.253	-0.170	-0.039	0.202	-0.177	-0.221	0.125	0.104	0.129	N.A.	N.A.
0.9517	0.9647	0.9782	1.0113	1.2798	1.3191	1.4380	2.0736	2.5708	2.7822	3.3887	3.8952	3.5635
0.5117	0.4953	0.4727	0.4946	0.5545	0.5846	0.6147	0.6965	0.7188	0.7773	0.8072	0.8604	0.8470
140.0	144.1	140.5	146.6	165.9	180.0	192.2	220.3	230.9	253.3	271.1	302.0	326.4
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
43.2	45.1	47.3	48.7	57.1	63.7	66.3	75.3	86.5	100.0	109.3	122.2	140.2
9.55	13.85	18.20	5.94	-3.31	7.73	-3.90	-3.77	7.55	-1.24	-2.30	-0.80	2.70
2.46	2.52	2.58	2.63	2.69	2.65	2.61	2.56	2.52	2.48	2.42	2.36	2.30
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
7.0	4.3	5.0	2.9	17.3	11.6	4.0	13.6	14.9	15.6	9.3	11.8	14.7

Original Table (Energy Demand and Supply) of Papua New Guinea in 2003

Year:2003

Papua New Guinea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
CRUDE OIL AND NGL/CONDENSATE	2,830,923.00	kL	0.0359	TJ/kL	101,630.14	TJ
NATURAL GAS AND LNG	5,034.00	Mft ³	1.1000	TJ/Mft ³	5,537.40	TJ
HYDRO POWER	929.00	GWh	3.6000	TJ/GWh	3,344.40	TJ
TOTAL PRODUCTION					110,511.94	TJ
OPENING STOCKS						
TOTAL OPENING STOCKS						TJ
CLOSING STOCKS						
TOTAL CLOSING STOCKS						TJ
STOCK CHANGE						
TOTAL STOCK CHANGE						TJ
IMPORTS						
LPG	21,843.00	kL	0.0253	TJ/kL	552.63	TJ
NAPHTHA	10,890.00	kL	0.0346	TJ/kL	376.79	TJ
MOGAS	119,796.00	kL	0.0346	TJ/kL	4,144.94	TJ
JET FUEL	99,626.00	kL	0.0332	TJ/kL	3,307.58	TJ
KEROSENE	44,143.00	kL	0.0368	TJ/kL	1,624.46	TJ
DIESEL OIL	691,880.00	kL	0.0388	TJ/kL	26,844.94	TJ
FUEL OIL	459,885.00	kL	0.0408	TJ/kL	18,763.31	TJ
OTHER PETROLEUM PRODUCTS	13,000.00	kL	0.0388	TJ/kL	504.40	TJ
TOTAL IMPORTS					56,119.06	TJ
EXPORTS						
CRUDE OIL AND NGL/CONDENSATE	2,830,923.00	kL	0.0359	TJ/kL	101,630.14	TJ
TOTAL EXPORTS					101,630.14	TJ
INTERNATIONAL MARINE BUNKERS						TJ
TOTAL PRIMARY ENERGY SUPPLY					65,000.86	TJ
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
DIESEL OIL	32,873.00	kL	0.0388	TJ/kL	1,275.47	TJ
FUEL OIL	184,067.00	kL	0.0408	TJ/kL	7,509.93	TJ
HYDRO POWER	545.00	GWh	3.6000	TJ/GWh	1,962.00	TJ
POWER GENERATION (AUTO PRODUCERS)						
DIESEL OIL	47,173.00	kL	0.0388	TJ/kL	1,830.31	TJ
FUEL OIL	254,268.00	kL	0.0408	TJ/kL	10,374.13	TJ
NATURAL GAS AND LNG	5,025.00	Mft ³	1.1000	TJ/Mft ³	5,527.50	TJ
HYDRO POWER	384.00	GWh	3.6000	TJ/GWh	1,382.40	TJ
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
GAS RECOVERING						
REFINING						
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	829.00	GWh	3.6000	TJ/GWh	2,984.40	TJ
HYDRO POWER	545.00	GWh	3.6000	TJ/GWh	1,962.00	TJ
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	1,420.00	GWh	3.6000	TJ/GWh	5,112.00	TJ
GAS	37.84	GWh	2.6000	TJ/GWh	98.38	TJ
HYDRO POWER	384.00	GWh	3.6000	TJ/GWh	1,382.40	TJ
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
ELECTRICITY	200.00	GWh	3.6000	TJ/GWh	720.00	TJ
TOTAL LOSSES AND OWN USE					720.00	TJ
FINAL ENERGY CONSUMPTION TOTAL						
LPG	21,843.00	kL	0.0253	TJ/kL	552.63	TJ
NAPHTHA	10,890.00	kL	0.0346	TJ/kL	376.79	TJ
MOGAS	119,796.00	kL	0.0346	TJ/kL	4,144.94	TJ
JET FUEL	99,626.00	kL	0.0332	TJ/kL	3,307.58	TJ
KEROSENE	44,143.00	kL	0.0368	TJ/kL	1,624.46	TJ
DIESEL OIL	611,834.00	kL	0.0388	TJ/kL	23,739.16	TJ
FUEL OIL	21,550.00	kL	0.0408	TJ/kL	879.24	TJ
OTHER PETROLEUM PRODUCTS	13,000.00	kL	0.0388	TJ/kL	504.40	TJ
ELECTRICITY	2,978.00	GWh	3.6000	TJ/GWh	10,720.80	TJ
TOTAL					45,850.01	TJ
AGRICULTURE						
TOTAL						TJ
RESIDENTIAL COMMERCIAL						
LPG	3,640.00	kL	0.0253	TJ/kL	92.09	TJ
KEROSENE	44,143.00	kL	0.0368	TJ/kL	1,624.46	TJ
ELECTRICITY	778.00	GWh	3.6000	TJ/GWh	2,800.80	TJ
TOTAL					4,517.35	TJ
OTHERS						
TOTAL						TJ
INDUSTRY						
LPG	18,203.00	kL	0.0253	TJ/kL	460.54	TJ
NAPHTHA	10,890.00	kL	0.0346	TJ/kL	376.79	TJ
DIESEL OIL	406,810.00	kL	0.0388	TJ/kL	15,784.23	TJ
FUEL OIL	15,393.00	kL	0.0408	TJ/kL	628.03	TJ
ELECTRICITY	2,200.00	GWh	3.6000	TJ/GWh	7,920.00	TJ

Original Table (Energy Demand and Supply) of Papua New Guinea in 2003 (Continued)

Papua New Guinea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL					25,169.59	TJ
TRANSPORT						
MOGAS	119,796.00	kL	0.0346	TJ/kL	4,144.94	TJ
JET FUEL	99,626.00	kL	0.0332	TJ/kL	3,307.58	TJ
DIESEL OIL	205,024.00	kL	0.0388	TJ/kL	7,954.93	TJ
FUEL OIL	6,157.00	kL	0.0408	TJ/kL	251.21	TJ
TOTAL					15,658.66	TJ
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	13,000.00	kL	0.0388	TJ/kL	504.40	TJ
TOTAL NON-ENERGY USE					504.40	TJ

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER		
COAL		
OIL		
GAS		
HYDRO POWER		
NUCLEAR POWER		
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

3.14 Peru

Energy Balance Table of Peru in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	11	-	4,615	-	-	-	-	-	-
2 Import	541	126	4,212	1,788	39	-	-	154	1,148
3 Export	-	-	-1,460	-1,989	-276	-	-	-212	-44
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	97	-2	-155	-880	-343	-	-	-140	-173
6 Total Primary Energy Supply	649	124	7,212	-1,081	-579	-	-	-198	930
7 Public Electricity	-220	-	-	-299	-	-	-	-	-40
8 Autoproducers of Electricity	-	-	-	-262	-	-	-	-	-219
9 Gas Processing	-	-126	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-8,049	8,107	1,574	-	-	940	1,950
11 Coal Transformation	-26	61	-	-	-	-	-	-	-
12 Loss & Own Use	-	0	-	-199	-5	-	-	-24	-104
13 Discrepancy	6	-5	838	-79	0	-	-	-1	0
14 Total Final Energy Consumption	409	54	-	6,186	990	-	-	717	2,516
15 Industry Sector	409	54	-	1,737	13	-	-	16	446
16 Transport Sector	-	-	-	3,088	843	-	-	144	2,047
17 Other Sector	-	-	-	1,197	133	-	-	557	24
18 Agriculture	-	-	-	34	13	-	-	0	5
19 Residential & Commercial	-	-	-	992	0	-	-	525	3
20 Other	-	-	-	171	120	-	-	32	15
21 Non-energy	-	-	-	165	-	-	-	-	-

Energy Balance Table of Peru in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	15	-	4,687	-	-	-	-	-	-
2 Import	592	141	3,728	1,356	50	-	-	198	764
3 Export	-	-	-1,082	-1,836	-280	-	-	-188	-50
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	56	-22	180	-325	-221	-	-	-34	4
6 Total Primary Energy Supply	664	119	7,512	-805	-451	-	-	-25	718
7 Public Electricity	-225	-	-	-243	-	-	-	-	-39
8 Autoproducers of Electricity	-	-	-	-279	-	-	-	-	-226
9 Gas Processing	-	-112	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-8,060	8,104	1,505	-	-	1,114	1,915
11 Coal Transformation	-32	55	-	-	-	-	-	-	-
12 Loss & Own Use	-	0	-	-339	-3	-	-	-25	-107
13 Discrepancy	17	-3	548	0	0	-	-	-1	0
14 Total Final Energy Consumption	424	59	-	6,438	1,051	-	-	1,062	2,261
15 Industry Sector	424	59	-	1,861	14	-	-	91	399
16 Transport Sector	-	-	-	2,998	895	-	-	208	1,838
17 Other Sector	-	-	-	1,408	141	-	-	763	24
18 Agriculture	-	-	-	38	14	-	-	0	6
19 Residential & Commercial	-	-	-	1,040	0	-	-	580	3
20 Other	-	-	-	330	127	-	-	183	15
21 Non-energy	-	-	-	172	-	-	-	-	-

Energy Balance Table of Peru in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	1,720	-	1,594	-	55	-	-	-	7,995
-	332	-	116	-	-	-	-	-	-	-	-	6,667
-1,447	-	-	-10	-	-	-	-	-	-	-	-	-3,449
-	-	-	-	-	-	-	-	-	-	-	-	-
-159	-14	-	-51	-	-	-	-	-	-	-	-	-940
-1,605	317	-	55	1,720	-	1,594	-	55	-	-	-	10,273
-259	-	-	-	-342	-	-1,558	-	-	-	1,837	-	-582
-42	-	-	-1	-23	-	-36	-	-	-	135	-	-187
-	-	-	-	-617	-	-	-	-	-	-	-	-743
3,117	291	124	110	-	-	-	-	-	-	-	-	58
-	-	-	-	-	-	-	-	-	-	-	-	35
-21	0	-44	0	-247	-	-	-	-	-	-35	-	-481
0	0	-79	1	-470	-	0	-	-	-	-199	-	90
1,190	608	-	165	20	-	-	-	55	-	1,738	-	8,462
1,134	127	-	-	20	-	-	-	-	-	1,032	-	3,252
34	20	-	-	-	-	-	-	-	-	-	-	3,088
21	462	-	-	0	-	-	-	55	-	705	-	1,958
15	0	-	-	-	-	-	-	-	-	47	-	80
4	461	-	-	0	-	-	-	55	-	631	-	1,679
3	1	-	-	-	-	-	-	-	-	28	-	199
-	-	-	165	-	-	-	-	-	-	-	-	165

Energy Balance Table of Peru in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	1,660	-	1,551	-	55	-	-	-	7,968
-	272	-	72	-	-	-	-	-	-	-	-	5,817
-1,310	-	-	-8	-	-	-	-	-	-	-	-	-2,918
-	-	-	-	-	-	-	-	-	-	-	-	-
19	-8	-	-84	-	-	-	-	-	-	-	-	-111
-1,291	264	-	-20	1,660	-	1,551	-	55	-	-	-	10,757
-204	-	-	-	-280	-	-1,517	-	-	-	1,756	-	-508
-51	-	-	-1	-24	-	-35	-	-	-	134	-	-203
-	-	-	-	-557	-	-	-	-	-	-	-	-669
3,014	293	71	192	-	-	-	-	-	-	-	-	44
-	-	-	-	-	-	-	-	-	-	-	-	23
-132	-	-71	0	-262	-	-	-	-	-	-32	-	-633
0	0	-	1	-531	-	0	-	-	-	-196	-	-165
1,336	557	-	172	5	-	-	-	55	-	1,663	-	8,644
1,267	89	-	-	5	-	-	-	-	-	988	-	3,336
42	14	-	-	-	-	-	-	-	-	-	-	2,998
27	454	-	-	0	-	-	-	55	-	675	-	2,138
19	0	-	-	-	-	-	-	-	-	47	-	85
4	453	-	-	0	-	-	-	55	-	600	-	1,695
4	1	-	-	-	-	-	-	-	-	28	-	358
-	-	-	172	-	-	-	-	-	-	-	-	172

Major Energy Indicators of Peru

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	8,185	7,743	7,564	8,042	8,613	8,568	6,920	7,537	7,455
Indigenous Production	11,095	11,247	11,426	10,957	10,162	9,000	8,351	8,193	7,511
Import	195	125	109	339	1,025	2,004	663	1,668	2,429
Export	-3,191	-3,501	-3,949	-3,173	-2,684	-2,305	-2,213	-2,267	-2,394
Final Energy Consumption	6,214	5,916	5,842	6,282	6,892	6,859	6,137	6,208	6,229
Industry	2,224	1,978	2,070	2,154	2,294	2,171	1,913	1,958	2,465
Transport	2,260	2,271	2,121	2,263	2,598	2,608	2,364	2,499	2,233
Residential & Commercial	1,216	1,240	1,239	1,367	1,506	1,563	1,415	1,274	1,074
Agriculture	184	76	95	72	88	143	101	107	106
Coal, Coal Products									
Primary Energy Supply	142	110	115	163	184	181	201	145	281
Indigenous Production	29	72	89	104	76	84	87	68	39
Import	124	34	81	121	100	113	104	71	228
Export	-	-	-13	-15	-	-	-	-	-
Transformation Sector	18	-15	6	18	16	19	-	-1	-60
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	53	83	112	118	110	111	122	100	197
Industry	53	83	105	111	103	101	111	93	185
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	7	7	7	10	11	7	12
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	7,532	8,534	8,400	8,368	8,498	8,050	6,620	7,149	7,437
Indigenous Production	9,869	9,557	9,656	9,084	8,243	7,137	6,568	6,493	5,798
Import	-	-	-	-	280	1,212	51	888	1,715
Export	-2,383	-1,022	-1,290	-669	-156	-255	-50	-150	-52
Transformation Sector	-7,379	-8,825	-8,841	-8,727	-8,721	-8,329	-7,589	-7,432	-7,621
Petroleum Refineries	-7,379	-8,825	-8,841	-8,727	-8,721	-8,329	-7,589	-7,432	-7,621
Petroleum Products									
Primary Energy Supply	-686	-2,519	-2,632	-2,258	-1,912	-1,442	-1,597	-1,389	-1,937
Import	71	91	28	218	645	679	508	709	486
Export	-808	-2,479	-2,646	-2,489	-2,528	-2,050	-2,163	-2,117	-2,341
Transformation Sector	6,102	7,528	7,710	7,558	7,678	7,275	6,517	6,456	6,791
Power Generation	-857	-807	-685	-705	-733	-778	-793	-760	-598
Petroleum Refineries	7,268	8,658	8,589	8,534	8,665	8,308	7,527	7,449	7,603
Final Energy Consumption	5,332	4,812	4,705	5,084	5,663	5,670	5,007	5,020	4,872
Industry	1,669	1,293	1,359	1,393	1,526	1,440	1,214	1,210	1,616
Transport	2,260	2,271	2,121	2,263	2,598	2,608	2,364	2,499	2,233
Residential & Commercial	918	857	850	969	1,086	1,142	1,003	854	598
Agriculture	155	41	58	33	47	106	82	87	74
Natural Gas, Town Gas									
Primary Energy Supply	594	881	874	919	927	882	802	757	708
Indigenous Production	594	881	874	919	927	882	802	757	708
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-512	-244	-599	-608	-562	-572	-475	-482	-426
Power Generation	-55	-72	-78	-89	-87	-91	-71	-75	-71
Final Energy Consumption	80	115	108	105	85	95	83	74	71
Industry	41	44	47	55	42	51	34	28	25
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	39	70	61	50	43	44	49	46	46
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	863	1,007	1,042	1,113	1,186	1,165	1,149	1,132	1,195
Thermal	260	270	235	263	270	268	255	257	229
Hydro	603	737	807	850	916	897	894	875	966
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	749	906	917	975	1,034	983	925	1,014	1,089
Industry	461	558	559	595	623	579	554	627	639
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	259	313	321	341	370	367	352	367	418
Agriculture	29	35	37	39	41	37	19	20	32

Major Energy Indicators of Peru (Continued)

ktoe											
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
7,334	8,251	8,872	9,450	9,796	10,354	10,282	9,369	11,047	10,653	10,757	10,273
7,419	8,233	8,405	8,124	8,051	8,006	8,106	7,918	7,832	7,900	7,968	7,995
2,636	2,244	2,509	4,346	4,570	5,826	6,462	4,691	5,397	5,457	5,817	6,667
-2,659	-2,411	-2,094	-2,561	-2,836	-3,499	-3,817	-2,452	-2,094	-2,835	-2,918	-3,449
6,124	6,472	6,907	7,692	8,169	8,159	8,135	8,563	9,200	8,462	8,644	8,462
2,002	2,224	2,218	2,562	2,836	2,756	2,682	2,941	3,336	3,112	3,336	3,252
2,387	2,453	2,812	3,055	3,256	3,236	3,304	3,406	3,386	3,199	2,998	3,088
1,297	1,212	1,201	1,330	1,414	1,421	1,492	1,517	1,566	1,678	1,695	1,679
58	102	107	132	154	151	161	173	107	87	85	80
275	308	354	375	394	408	447	413	630	572	783	773
61	57	43	35	15	15	15	15	12	13	15	11
217	216	341	338	340	386	425	451	588	472	734	667
-	-	-	-	-	-	-	-	-	-	-	-
-24	-89	-67	-57	-75	-110	-94	-40	-180	-190	-314	-311
-	-	-	-	-	-	-	-	-99	-89	-225	-220
296	289	294	290	314	321	357	343	430	382	483	463
290	278	286	282	307	315	345	306	430	382	483	463
-	-	-	-	-	-	-	-	-	-	-	-
7	8	8	8	7	6	7	6	-	-	-	-
-	-	-	-	-	-	2	2	0	0	-	-
7,287	7,725	7,579	6,974	6,783	7,703	8,252	5,994	7,268	7,712	7,512	7,212
5,854	6,379	6,431	6,151	6,077	5,973	5,732	5,179	4,829	4,705	4,687	4,615
1,466	1,176	1,094	2,419	2,842	4,038	4,784	2,931	3,090	3,744	3,728	4,212
-43	-	-	-1,419	-1,885	-2,303	-2,171	-1,466	-687	-945	-1,082	-1,460
-7,546	-7,846	-7,721	-7,473	-7,516	-8,326	-8,570	-7,773	-7,740	-8,114	-8,060	-8,049
-7,546	-7,846	-7,721	-7,473	-7,516	-8,326	-8,570	-7,773	-7,740	-8,114	-8,060	-8,049
-1,731	-1,580	-992	162	660	224	-777	238	158	-813	-805	-1,081
953	853	1,073	1,589	1,388	1,402	1,253	1,308	1,720	1,240	1,356	1,788
-2,616	-2,411	-2,094	-1,142	-950	-1,196	-1,647	-987	-1,407	-1,891	-1,836	-1,989
6,376	6,557	6,286	6,131	5,988	6,338	7,182	6,557	6,710	7,272	7,243	7,347
-1,070	-806	-782	-926	-1,066	-1,139	-996	-853	-686	-525	-522	-561
7,646	7,701	7,396	7,389	7,407	7,858	8,506	7,770	7,763	8,164	8,104	8,107
4,895	5,157	5,543	6,292	6,641	6,563	6,406	6,800	7,225	6,457	6,438	6,186
1,212	1,345	1,306	1,631	1,819	1,694	1,534	1,803	2,021	1,796	1,861	1,737
2,387	2,453	2,812	3,055	3,256	3,236	3,304	3,406	3,386	3,199	2,998	3,088
899	809	781	894	939	924	956	965	1,027	1,060	1,040	992
27	72	76	100	119	114	118	130	65	43	38	34
671	794	828	827	813	882	1,171	1,473	1,547	1,614	1,660	1,720
671	794	828	827	813	882	1,171	1,473	1,547	1,614	1,660	1,720
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-379	-291	-36	-314	-453	-379	-526	-724	-691	-711	-1,124	-1,229
-57	-56	-55	-58	-18	-104	-235	-271	-226	-243	-304	-366
29	4	6	3	4	3	4	1	1	0	5	20
-	2	2	-	-	-	-	-	-	-	5	20
-	-	-	-	-	-	-	-	-	-	-	-
19	3	3	3	4	3	4	1	1	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
1,121	1,263	1,362	1,449	1,486	1,544	1,599	1,638	1,713	1,788	1,890	1,972
288	259	260	337	340	407	411	388	322	273	339	378
833	1,004	1,102	1,112	1,146	1,136	1,188	1,250	1,391	1,515	1,551	1,594
-	-	-	-	-	-	-	-	-	-	-	-
904	1,021	1,064	1,106	1,209	1,272	1,368	1,418	1,490	1,570	1,663	1,738
500	599	625	649	710	747	803	832	884	934	988	1,032
-	-	-	-	-	-	-	-	-	-	-	-
373	392	408	424	464	488	525	544	538	565	600	631
31	30	31	32	35	37	40	42	42	44	47	47

Major Economic Indicators of Peru

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	17.32	19.07	19.49	19.91	20.33	20.74	21.15	21.57
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	44.50	43.99	45.22	49.74	53.72	49.05	43.31	41.08
Real Term (Billions of 1995 Price and 1995 PPP)	83.59	82.63	84.95	93.44	100.92	92.14	81.36	77.17
Nominal (Billions of Current USD)	20.66	19.85	17.16	25.78	42.60	24.02	31.02	28.97
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	2,569	2,307	2,320	2,498	2,643	2,365	2,047	1,905
Real Term (1995 Price and 1995 PPP)	4,825	4,334	4,358	4,693	4,965	4,443	3,846	3,578
Nominal (Current USD)	1,193	1,041	881	1,295	2,096	1,158	1,467	1,343
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	5.968E-6	6.880E-5	1.884E-4	3.596E-4	7.172E-4	3.094E-3	8.272E-2	5.443
Household Final Consumption Expenditure, etc.	3.431E-6	4.521E-5	1.235E-4	2.530E-4	5.041E-4	1.850E-3	5.683E-2	4.011
General Government Final Consumption Expenditure	6.280E-7	6.682E-6	1.792E-5	3.465E-5	7.152E-5	3.203E-4	8.656E-3	0.430
Gross Fixed Capital Formation	1.493E-6	1.443E-5	3.429E-5	7.364E-5	1.427E-4	9.670E-4	1.442E-2	0.878
Stock Change	2.387E-7	-2.206E-7	4.140E-7	3.232E-6	1.141E-5	7.300E-5	2.704E-3	0.019
Exports of Goods and Services	1.337E-6	1.331E-5	4.327E-5	5.013E-5	7.866E-5	5.828E-4	1.025E-2	0.858
Imports of Goods and Services	1.159E-6	1.060E-5	3.100E-5	5.510E-5	9.121E-5	6.995E-4	1.014E-2	0.753
Real GDP & its Components (Billions of 1994 PEN) *1								
Gross Domestic Product	88.80	87.78	90.24	99.27	107.21	97.88	86.43	81.98
Household Final Consumption Expenditure, etc.	64.02	66.19	68.79	75.48	81.04	74.50	66.14	60.90
General Government Final Consumption Expenditure	7.19	8.08	8.45	9.17	9.56	8.05	6.51	7.38
Gross Fixed Capital Formation	16.36	12.61	10.77	14.25	16.40	16.76	12.26	13.72
Stock Change	3.49	0.19	0.30	1.13	3.10	0.81	0.59	0.21
Exports of Goods and Services	9.03	9.62	10.09	9.13	8.43	7.58	9.00	9.26
Imports of Goods and Services	11.28	8.90	8.17	9.91	11.33	9.81	8.07	9.50
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	6.3	7.3	7.4	7.1	6.8	8.0	8.7	8.5
Industry	26.4	24.0	24.0	25.9	27.1	25.3	24.8	25.9
Services, etc.	57.6	59.7	59.7	57.6	56.4	57.6	57.6	56.4
Manufacturing Production Index (2000=100) *2	89.8	75.4	80.1	94.5	107.7	93.9	75.7	70.2
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.898	3.147	2.979	2.531	2.661	2.701	3.488	3.230
Imports, c.i.f.	2.573	1.881	1.767	2.391	3.003	3.109	2.009	2.634
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.826	1.007	1.219	-0.073	-0.500	-0.134	1.246	0.399
Current Account	-0.101	-0.235	0.102	-1.393	-2.065	-1.819	-0.570	-1.419
Overall Balance	0.279	-1.571	-1.594	-2.746	-3.867	-3.056	-2.610	-2.141
Foreign Exchange Rate (PEN/USD) *1	2.889E-7	3.467E-6	1.097E-5	1.395E-5	1.684E-5	1.288E-4	0.00267	0.18789
Purchasing Power Parity (PEN/International Dollar) *1	1.200E-7	1.095E-6	2.841E-6	4.905E-6	8.838E-6	3.754E-5	0.00106	0.07983
Price Indices								
GDP Deflator (1994=100) *3	6.72E-6	7.84E-5	2.09E-4	3.62E-4	6.69E-4	3.16E-3	0.096	6.639
Wholesale Price Index (2000=100) *2	5.53E-6	6.83E-5	1.87E-4	3.00E-4	4.54E-4	3.31E-3	0.086	5.902
Consumer Price Index (2000=100) *2	1.75E-6	2.24E-5	5.90E-5	1.05E-4	1.95E-4	1.50E-3	0.052	3.971
Growth Rate (%) *3								
Real GDP	3.08	5.20	2.80	10.00	8.00	-8.70	-11.70	-5.14
Population	2.59	2.31	2.23	2.15	2.09	2.03	1.99	1.97
Price								
Wholesale Price Index	#N/A	120.1	173.9	60.3	51.5	627.9	2,510.3	6,737.4
Consumer Price Index	59.1	110.2	163.4	77.9	85.8	667.0	3,398.7	7,481.7

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"

: PEN shows Nuevo Sol, USD shows United States Dollar

: PPP shows Purchasing Power Parity

Major Economic Indicators of Peru (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
22.00	22.44	22.89	23.36	23.84	24.30	24.74	25.16	25.56	25.94	26.35	26.75	27.15
41.97	41.79	43.78	49.40	53.64	54.97	58.73	58.35	58.88	60.54	60.68	63.63	66.02
78.84	78.51	82.25	92.79	100.76	103.27	110.33	109.62	110.61	113.73	114.00	119.53	752.74
34.54	36.08	34.83	44.91	53.64	55.81	59.03	56.83	51.64	53.09	53.66	56.49	60.59
1,908	1,863	1,913	2,115	2,250	2,262	2,374	2,319	2,303	2,334	2,303	2,379	2,432
3,584	3,499	3,593	3,973	4,227	4,250	4,460	4,356	4,327	4,385	4,327	4,468	4,568
1,570	1,608	1,522	1,923	2,250	2,297	2,386	2,258	2,020	2,047	2,037	2,112	2,232
26.686	44.953	69.262	98.577	120.858	136.929	157.274	166.514	174.719	185.281	188.172	198.657	210.747
20.607	34.934	52.995	71.306	85.932	98.597	110.925	118.630	122.196	131.565	136.040	142.534	149.612
2.067	3.566	5.568	8.672	11.786	13.827	15.487	17.568	19.038	19.717	20.290	20.386	21.359
4.417	7.405	12.697	20.901	29.095	30.747	37.472	39.163	37.840	37.610	34.862	35.128	37.747
0.197	0.375	0.679	1.030	0.918	0.537	0.337	0.091	-0.303	-0.066	0.220	2.177	1.906
3.260	5.628	8.627	12.590	15.118	17.975	22.272	22.076	25.855	29.851	30.020	32.811	37.270
3.862	6.954	11.304	15.922	21.991	24.754	29.219	31.014	29.907	33.396	33.260	34.379	37.146
83.76	83.40	87.37	98.58	107.04	109.71	117.21	116.45	117.51	120.82	121.10	126.98	131.76
62.99	62.79	64.94	71.31	78.20	80.58	84.08	83.38	83.06	85.95	87.16	91.25	94.04
7.53	7.74	7.98	8.67	9.41	9.82	10.57	10.83	11.21	11.56	11.57	11.48	11.81
13.93	14.06	15.63	20.90	25.47	24.74	28.52	28.11	24.99	23.74	21.78	21.63	22.79
0.64	0.70	0.86	1.03	0.91	0.36	0.31	0.14	-0.53	-0.04	0.12	1.05	0.92
9.80	10.23	10.55	12.59	13.29	14.47	16.36	17.27	18.59	20.07	21.49	23.04	24.39
11.13	12.11	12.57	15.92	20.23	20.26	22.72	23.25	19.72	20.43	21.00	21.48	22.19
8.5	8.0	8.2	8.3	8.2	8.4	8.3	8.3	9.1	9.5	9.4	9.5	9.3
26.4	26.0	26.8	28.1	27.8	27.5	27.9	27.9	27.6	25.5	25.6	26.0	26.5
55.8	56.4	55.4	53.8	53.8	54.1	53.7	53.6	53.6	55.4	55.4	54.9	54.6
75.0	72.5	75.0	87.5	92.3	93.7	98.6	95.2	94.5	100.0	100.5	104.7	107.1
3.329	3.484	3.514	4.554	5.575	5.897	6.841	5.757	6.113	7.028	7.007	7.647	8.954
2.813	3.964	4.231	5.626	7.584	7.947	8.588	8.220	7.404	7.415	7.316	7.493	8.470
-0.189	-0.340	-0.776	-1.075	-2.241	-1.991	-1.678	-2.437	-0.655	-0.411	-0.195	0.292	0.836
-1.504	-1.886	-2.464	-2.701	-4.625	-3.646	-3.367	-3.321	-1.464	-1.526	-1.144	-1.063	-0.935
-0.504	-0.922	-0.359	1.553	-0.590	0.880	2.055	-1.241	-0.862	-0.130	0.432	1.010	0.561
0.77250	1.24583	1.98832	2.19500	2.25333	2.45333	2.66417	2.93000	3.38333	3.49000	3.50683	3.51650	3.47847
0.35675	0.61066	0.87386	1.08033	1.19951	1.31056	1.39182	1.45995	1.48967	1.50993	1.50297	1.48206	1.47591
31.86	53.90	79.27	100.0	112.9	124.8	134.2	143.0	148.7	153.3	155.4	156.4	160.0
23.98	37.70	55.62	65.6	72.5	79.3	85.2	91.4	95.8	100.0	101.4	100.3	102.0
20.23	35.11	52.16	64.5	71.7	80.0	86.9	93.1	96.4	100.0	102.0	102.2	104.5
2.17	-0.43	4.76	12.82	8.58	2.49	6.84	-0.65	0.91	2.82	0.23	4.85	3.76
1.99	2.00	2.02	2.04	2.05	1.94	1.82	1.70	1.59	1.47	1.57	1.53	1.49
306.3	57.2	47.6	17.9	10.5	9.4	7.4	7.3	4.9	4.3	1.4	-1.0	1.7
409.5	73.5	48.6	23.7	11.1	11.5	8.6	7.2	3.5	3.8	2.0	0.2	2.3

Original Table (Energy Demand and Supply) of Peru in 2003

Year:2003

Peru	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	15.67	kt	0.7000	ktoe/kt	10.97	ktoe
CRUDE OIL AND NGL/CONDENSATE	33,342.60	kbbbl	0.1384	ktoe/kbbbl	4,614.62	ktoe
CRUDE OIL	33,342.60	kbbbl	0.1384	ktoe/kbbbl	4,614.62	ktoe
NATURAL GAS AND LNG	73,496.75	Mft ³	0.0234	ktoe/Mft ³	1,719.82	ktoe
HYDRO POWER	18,533.72	GWh	0.0860	ktoe/GWh	1,593.90	ktoe
SOLAR HEAT	643.99	GWh	0.0860	ktoe/GWh	55.38	ktoe
TOTAL PRODUCTION					7,994.69	ktoe
OPENING STOCKS						
TOTAL OPENING STOCKS						ktoe
CLOSING STOCKS						
TOTAL CLOSING STOCKS						ktoe
STOCK CHANGE						
COAL	132.79	kt	0.7300	ktoe/kt	96.94	ktoe
COKE	-3.34	kt	0.6400	ktoe/kt	-2.14	ktoe
CRUDE OIL AND NGL/CONDENSATE	-1,119.53	kbbbl	0.1384	ktoe/kbbbl	-154.94	ktoe
CRUDE OIL	-1,119.53	kbbbl	0.1384	ktoe/kbbbl	-154.94	ktoe
LPG	-151.25	kbbbl	0.0950	ktoe/kbbbl	-14.37	ktoe
MOGAS	-2,809.39	kbbbl	0.1220	ktoe/kbbbl	-342.75	ktoe
KEROSENE	-1,054.19	kbbbl	0.1330	ktoe/kbbbl	-140.21	ktoe
DIESEL OIL	-1,256.01	kbbbl	0.1380	ktoe/kbbbl	-173.33	ktoe
FUEL OIL	-1,079.34	kbbbl	0.1470	ktoe/kbbbl	-158.66	ktoe
OTHER PETROLEUM PRODUCTS	-368.31	kbbbl	0.1380	ktoe/kbbbl	-50.83	ktoe
TOTAL STOCK CHANGE					-940.28	ktoe
IMPORTS						
COAL	740.95	kt	0.7300	ktoe/kt	540.89	ktoe
COKE	196.85	kt	0.6400	ktoe/kt	125.99	ktoe
CRUDE OIL AND NGL/CONDENSATE	30,431.22	kbbbl	0.1384	ktoe/kbbbl	4,211.68	ktoe
CRUDE OIL	30,431.22	kbbbl	0.1384	ktoe/kbbbl	4,211.68	ktoe
LPG	3,492.06	kbbbl	0.0950	ktoe/kbbbl	331.75	ktoe
MOGAS	322.17	kbbbl	0.1220	ktoe/kbbbl	39.31	ktoe
KEROSENE	1,155.83	kbbbl	0.1330	ktoe/kbbbl	153.73	ktoe
DIESEL OIL	8,315.69	kbbbl	0.1380	ktoe/kbbbl	1,147.56	ktoe
OTHER PETROLEUM PRODUCTS	840.33	kbbbl	0.1380	ktoe/kbbbl	115.97	ktoe
TOTAL IMPORTS					6,666.87	ktoe
EXPORTS						
CRUDE OIL AND NGL/CONDENSATE	10,547.83	kbbbl	0.1384	ktoe/kbbbl	1,459.82	ktoe
CRUDE OIL	10,547.83	kbbbl	0.1384	ktoe/kbbbl	1,459.82	ktoe
MOGAS	2,258.99	kbbbl	0.1220	ktoe/kbbbl	275.60	ktoe
KEROSENE	1,591.95	kbbbl	0.1330	ktoe/kbbbl	211.73	ktoe
DIESEL OIL	321.27	kbbbl	0.1380	ktoe/kbbbl	44.34	ktoe
FUEL OIL	9,841.92	kbbbl	0.1470	ktoe/kbbbl	1,446.76	ktoe
OTHER PETROLEUM PRODUCTS	75.94	kbbbl	0.1380	ktoe/kbbbl	10.48	ktoe
TOTAL EXPORTS					3,448.72	ktoe
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					10,272.55	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	35.83	kt	0.7300	ktoe/kt	26.16	ktoe
REFINING						
CRUDE OIL AND NGL/CONDENSATE	58,158.82	kbbbl	0.1384	ktoe/kbbbl	8,049.18	ktoe
CRUDE OIL	58,158.82	kbbbl	0.1384	ktoe/kbbbl	8,049.18	ktoe
GAS PROCESSING						
COKE	197.19	kt	0.6400	ktoe/kt	126.20	ktoe
NATURAL GAS AND LNG	26,354.38	Mft ³	0.0234	ktoe/Mft ³	616.69	ktoe
NATURAL GAS	26,354.38	Mft ³	0.0234	ktoe/Mft ³	616.69	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
COAL	301.39	kt	0.7300	ktoe/kt	220.02	ktoe
DIESEL OIL	291.02	kbbbl	0.1380	ktoe/kbbbl	40.16	ktoe
FUEL OIL	1,761.72	kbbbl	0.1470	ktoe/kbbbl	258.97	ktoe
NATURAL GAS AND LNG	14,617.72	Mft ³	0.0234	ktoe/Mft ³	342.05	ktoe
NATURAL GAS	14,617.72	Mft ³	0.0234	ktoe/Mft ³	342.05	ktoe
HYDRO POWER	18,118.33	GWh	0.0860	ktoe/GWh	1,558.18	ktoe
POWER GENERATION (AUTO PRODUCERS)						
DIESEL OIL	1,588.11	kbbbl	0.1380	ktoe/kbbbl	219.16	ktoe
FUEL OIL	284.46	kbbbl	0.1470	ktoe/kbbbl	41.82	ktoe
NATURAL GAS AND LNG	1,001.95	Mft ³	0.0234	ktoe/Mft ³	23.45	ktoe
NATURAL GAS	1,001.95	Mft ³	0.0234	ktoe/Mft ³	23.45	ktoe
HYDRO POWER	415.39	GWh	0.0860	ktoe/GWh	35.72	ktoe
OTHER PETROLEUM PRODUCTS					0.94	ktoe
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	43.93	kt	0.6400	ktoe/kt	28.12	ktoe
BLAST FURNACE GAS	550.67	Mm ³	0.0600	ktoe/Mm ³	33.04	ktoe
REFINING						
REFINERY GAS	659.85	kbbbl	0.1876	ktoe/kbbbl	123.79	ktoe
LPG	3,064.80	kbbbl	0.0950	ktoe/kbbbl	291.16	ktoe
MOGAS	12,901.82	kbbbl	0.1220	ktoe/kbbbl	1,574.02	ktoe
KEROSENE	7,070.69	kbbbl	0.1330	ktoe/kbbbl	940.40	ktoe
DIESEL OIL	14,131.59	kbbbl	0.1380	ktoe/kbbbl	1,950.16	ktoe

Original Table (Energy Demand and Supply) of Peru in 2003 (Continued)

Year:2003

Peru	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	21,204.99	kbbbl	0.1470	ktoe/kbbbl	3,117.13	ktoe
OTHER PETROLEUM PRODUCTS	797.46	kbbbl	0.1380	ktoe/kbbbl	110.05	ktoe
GAS RECOVERING						
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	3,243.13	GWh	0.0860	ktoe/GWh	278.91	ktoe
HYDRO POWER	18,118.33	GWh	0.0860	ktoe/GWh	1,558.18	ktoe
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	1,149.50	GWh	0.0860	ktoe/GWh	98.86	ktoe
HYDRO POWER	415.39	GWh	0.0860	ktoe/GWh	35.72	ktoe
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
BLAST FURNACE GAS	0.23	Mm ³	0.0600	ktoe/Mm ³	0.01	ktoe
REFINERY GAS	236.11	kbbbl	0.1876	ktoe/kbbbl	44.29	ktoe
LPG	1.34	kbbbl	0.0950	ktoe/kbbbl	0.13	ktoe
MOGAS	44.18	kbbbl	0.1220	ktoe/kbbbl	5.39	ktoe
KEROSENE	179.14	kbbbl	0.1330	ktoe/kbbbl	23.82	ktoe
DIESEL OIL	755.43	kbbbl	0.1380	ktoe/kbbbl	104.25	ktoe
FUEL OIL	143.29	kbbbl	0.1470	ktoe/kbbbl	21.06	ktoe
OTHER PETROLEUM PRODUCTS	0.09	kbbbl	0.1380	ktoe/kbbbl	0.01	ktoe
NATURAL GAS AND LNG	10,561.72	Mft ³	0.0234	ktoe/Mft ³	247.14	ktoe
NATURAL GAS	10,561.72	Mft ³	0.0234	ktoe/Mft ³	247.14	ktoe
ELECTRICITY	403.09	GWh	0.0860	ktoe/GWh	34.67	ktoe
TOTAL LOSSES AND OWN USE					480.79	ktoe
FINAL ENERGY CONSUMPTION TOTAL						
COAL	560.10	kt	0.7300	ktoe/kt	408.87	ktoe
COKE	42.49	kt	0.6400	ktoe/kt	27.19	ktoe
BLAST FURNACE GAS	443.36	Mm ³	0.0600	ktoe/Mm ³	26.60	ktoe
LPG	6,404.26	kbbbl	0.0950	ktoe/kbbbl	608.40	ktoe
MOGAS	8,111.44	kbbbl	0.1220	ktoe/kbbbl	989.60	ktoe
KEROSENE	5,394.15	kbbbl	0.1330	ktoe/kbbbl	717.42	ktoe
DIESEL OIL	18,235.43	kbbbl	0.1380	ktoe/kbbbl	2,516.49	ktoe
FUEL OIL	8,094.25	kbbbl	0.1470	ktoe/kbbbl	1,189.86	ktoe
NATURAL GAS AND LNG	863.41	Mft ³	0.0234	ktoe/Mft ³	20.20	ktoe
NATURAL GAS	863.41	Mft ³	0.0234	ktoe/Mft ³	20.20	ktoe
SOLAR HEAT	643.99	GWh	0.0860	ktoe/GWh	55.38	ktoe
ELECTRICITY	20,206.07	GWh	0.0860	ktoe/GWh	1,737.72	ktoe
TOTAL					8,297.74	ktoe
AGRICULTURE						
LPG	2.10	kbbbl	0.0950	ktoe/kbbbl	0.20	ktoe
MOGAS	105.92	kbbbl	0.1220	ktoe/kbbbl	12.92	ktoe
KEROSENE	0.28	kbbbl	0.1330	ktoe/kbbbl	0.04	ktoe
DIESEL OIL	39.73	kbbbl	0.1380	ktoe/kbbbl	5.48	ktoe
FUEL OIL	102.07	kbbbl	0.1470	ktoe/kbbbl	15.00	ktoe
ELECTRICITY	543.06	GWh	0.0860	ktoe/GWh	46.70	ktoe
TOTAL					80.35	ktoe
RESIDENTIAL COMMERCIAL						
LPG	4,849.33	kbbbl	0.0950	ktoe/kbbbl	460.69	ktoe
MOGAS	1.39	kbbbl	0.1220	ktoe/kbbbl	0.17	ktoe
KEROSENE	3,947.60	kbbbl	0.1330	ktoe/kbbbl	525.03	ktoe
DIESEL OIL	21.90	kbbbl	0.1380	ktoe/kbbbl	3.02	ktoe
FUEL OIL	23.90	kbbbl	0.1470	ktoe/kbbbl	3.51	ktoe
NATURAL GAS AND LNG	3.20	Mft ³	0.0234	ktoe/Mft ³	0.07	ktoe
NATURAL GAS	3.20	Mft ³	0.0234	ktoe/Mft ³	0.07	ktoe
SOLAR HEAT	643.99	GWh	0.0860	ktoe/GWh	55.38	ktoe
ELECTRICITY	7,332.95	GWh	0.0860	ktoe/GWh	630.63	ktoe
TOTAL					1,678.51	ktoe
OTHERS						
LPG	8.02	kbbbl	0.0950	ktoe/kbbbl	0.76	ktoe
MOGAS	982.64	kbbbl	0.1220	ktoe/kbbbl	119.88	ktoe
KEROSENE	241.03	kbbbl	0.1330	ktoe/kbbbl	32.06	ktoe
DIESEL OIL	110.21	kbbbl	0.1380	ktoe/kbbbl	15.21	ktoe
FUEL OIL	20.03	kbbbl	0.1470	ktoe/kbbbl	2.94	ktoe
ELECTRICITY	326.09	GWh	0.0860	ktoe/GWh	28.04	ktoe
TOTAL					198.90	ktoe
INDUSTRY						
COAL	559.90	kt	0.7300	ktoe/kt	408.73	ktoe
COKE	42.49	kt	0.6400	ktoe/kt	27.19	ktoe
BLAST FURNACE GAS	443.36	Mm ³	0.0600	ktoe/Mm ³	26.60	ktoe
LPG	1,338.63	kbbbl	0.0950	ktoe/kbbbl	127.17	ktoe
MOGAS	110.41	kbbbl	0.1220	ktoe/kbbbl	13.47	ktoe
KEROSENE	120.12	kbbbl	0.1330	ktoe/kbbbl	15.98	ktoe
DIESEL OIL	3,233.79	kbbbl	0.1380	ktoe/kbbbl	446.26	ktoe
FUEL OIL	7,715.60	kbbbl	0.1470	ktoe/kbbbl	1,134.19	ktoe
NATURAL GAS AND LNG	860.21	Mft ³	0.0234	ktoe/Mft ³	20.13	ktoe
NATURAL GAS	860.21	Mft ³	0.0234	ktoe/Mft ³	20.13	ktoe
ELECTRICITY	12,003.96	GWh	0.0860	ktoe/GWh	1,032.34	ktoe
TOTAL					3,252.06	ktoe
TRANSPORT						
LPG	206.18	kbbbl	0.0950	ktoe/kbbbl	19.59	ktoe
MOGAS	6,911.07	kbbbl	0.1220	ktoe/kbbbl	843.15	ktoe
KEROSENE	1,085.12	kbbbl	0.1330	ktoe/kbbbl	144.32	ktoe
DIESEL OIL	14,829.80	kbbbl	0.1380	ktoe/kbbbl	2,046.51	ktoe

Original Table (Energy Demand and Supply) of Peru in 2003 (Continued)

Year:2003

Peru	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	232.65	kbbbl	0.1470	ktoe/kbbbl	34.20	ktoe
TOTAL					3,087.77	ktoe
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	1,193.44	kbbbl	0.1380	TOE/bbl	164.70	ktoe
TOTAL NON-ENERGY USE					164.70	ktoe

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	2938.362	
COAL		
OIL		
GAS		
HYDRO POWER	2996.471	
NUCLEAR POWER	0	
GEO THERMAL POWER	0	
OTHERS (WIND, TIDE, PHOTVOLTAIC)	0	
OTHERS (BIOMASS, MUNICIPAL WASTE)	0.7	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit: ktoe

	WOOD	DUNG	BAGASSE	CHARCOAL	TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION	1738.97	256.18	408.59	55.53	2459.26
IMPORTS					
EXPORTS					
TOTAL	1738.97	256.18	408.59	55.53	2459.26
TRANSFORMATION(INPUT)	138.82		67.40		206.22
TRANSFORMATION(OUTPUT)				55.53	55.53
FINAL ENERGY CONSUMPTION					
AGRICULTURE	2.66	0.00	182.24	0.00	184.90
RESIDENTIAL COMMERCIAL	1595.88	256.18	0.00	55.52	1907.58
INDUSTRY	1.61	0.00	0.99	0.01	2.61
TRANSPORT	0.00	0.00	0.00	0.00	0.00
TOTAL	1600.15	256.18	183.23	55.53	2095.09

3.15 Philippines

Energy Balance Table of Philippines in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	882	-	674	-	-	-	-	-	-
2 Import	3,079	-	12,294	4,567	1,101	29	229	100	1,875
3 Export	-	-	-654	-1,575	-7	-522	-	-	-132
4 International Marine Bunkers	-	-	-	-782	-	-	-	-	-
5 Stock Changes	-	-	-112	-36	-3	-30	-1	-4	-42
6 Total Primary Energy Supply	3,961	-	12,202	2,174	1,091	-523	228	96	1,701
7 Public Electricity	-3,050	-	-	-1,613	-	-	-	-	-148
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-11,860	11,636	1,945	557	638	356	3,870
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-29	-	-514	-	-	-	-	-	-
13 Discrepancy	2	-	172	958	10	3	-8	-29	166
14 Total Final Energy Consumption	885	-	-	13,155	3,046	37	857	423	5,589
15 Industry Sector	770	-	-	2,088	-	-	-	82	625
16 Transport Sector	-	-	-	8,673	3,038	-	857	-	4,375
17 Other Sector	-	-	-	2,269	8	-	-	341	590
18 Agriculture	-	-	-	349	8	-	-	5	300
19 Residential & Commercial	-	-	-	1,920	-	-	-	336	290
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	115	-	-	125	-	37	-	-	-

Energy Balance Table of Philippines in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	729	-	719	-	-	-	-	-	-
2 Import	3,310	-	12,650	4,283	799	28	174	61	1,892
3 Export	-	-	-447	-1,546	-	-524	-5	-	-148
4 International Marine Bunkers	-	-	-	-791	-	-	-	-	-
5 Stock Changes	-57	-	114	185	30	20	-3	1	79
6 Total Primary Energy Supply	3,982	-	13,036	2,131	829	-475	166	62	1,823
7 Public Electricity	-3,214	-	-	-1,623	-	-	-	-	-208
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-12,692	11,993	2,072	515	641	410	4,008
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-28	-	-459	-	-	-	-	-	-
13 Discrepancy	-29	-	116	727	87	-11	11	-6	5
14 Total Final Energy Consumption	711	-	-	13,227	2,988	28	818	466	5,629
15 Industry Sector	622	-	-	2,357	-	-	-	94	759
16 Transport Sector	-	-	-	8,424	2,979	-	818	-	4,265
17 Other Sector	-	-	-	2,308	-	-	-	372	605
18 Agriculture	-	-	-	319	-	-	-	6	288
19 Residential & Commercial	-	-	-	1,988	-	-	-	367	318
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	88	-	-	130	-	28	-	-	-

Energy Balance Table of Philippines in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	2,628	-	677	-	8,447	-	-	-	13,308
394	737	-	103	-	-	-	-	-	-	-	-	19,940
-718	-9	-	-188	-	-	-	-	-	-	-	-	-2,229
-782	-	-	-	-	-	-	-	-	-	-	-	-782
51	-4	-	-3	-	-	-	-	-	-	-	-	-148
-1,056	725	-	-88	2,628	-	677	-	8,447	-	-	-	30,088
-1,465	-	-	-	-2,628	-	-677	-	-8,447	-	4,546	-	-11,868
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3,750	425	-	95	-	-	-	-	-	-	-	-	-224
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-879	-	-1,422
669	66	-	81	-	-	-	-	-	-	0	-	1,133
1,899	1,215	-	88	-	-	-	-	-	-	3,667	-	17,707
1,242	139	-	-	-	-	-	-	-	-	1,299	-	4,158
402	-	-	-	-	-	-	-	-	-	5	-	8,677
254	1,076	-	-	-	-	-	-	-	-	2,363	-	4,631
36	-	-	-	-	-	-	-	-	-	6	-	355
218	1,076	-	-	-	-	-	-	-	-	2,357	-	4,277
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	88	-	-	-	-	-	-	-	-	240

Energy Balance Table of Philippines in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	1,724	-	605	-	8,809	-	-	-	12,585
566	672	-	90	-	-	-	-	-	-	-	-	20,244
-808	-5	-	-56	-	-	-	-	-	-	-	-	-1,994
-791	-	-	-	-	-	-	-	-	-	-	-	-791
58	-1	-	1	-	-	-	-	-	-	-	-	242
-975	665	-	35	1,724	-	605	-	8,809	-	-	-	30,287
-1,415	-	-	-	-1,724	-	-605	-	-8,809	-	4,168	-	-11,806
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3,769	463	-	115	-	-	-	-	-	-	-	-	-699
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-846	-	-1,334
643	46	-	-48	-	-	-	-	-	-	0	-	813
2,022	1,174	-	102	-	-	-	-	-	-	3,322	-	17,260
1,388	117	-	-	-	-	-	-	-	-	1,172	-	4,151
362	-	-	-	-	-	-	-	-	-	5	-	8,429
273	1,057	-	-	-	-	-	-	-	-	2,145	-	4,452
26	-	-	-	-	-	-	-	-	-	5	-	324
247	1,057	-	-	-	-	-	-	-	-	2,140	-	4,128
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	102	-	-	-	-	-	-	-	-	219

Major Energy Indicators of Philippines

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	12,441	11,758	12,650	12,538	13,421	14,172	15,748	17,319	17,612
Indigenous Production	2,703	5,411	5,638	5,423	5,141	5,582	5,936	6,009	6,135
Import	10,525	7,122	7,360	7,711	9,316	10,459	10,944	12,078	12,103
Export	-133	-340	-165	-394	-263	-582	-407	-663	-794
Final Energy Consumption	9,041	7,460	7,049	7,441	7,409	9,436	9,439	10,275	9,797
Industry	4,666	3,341	3,395	3,681	2,858	3,596	3,939	3,796	3,985
Transport	2,289	2,239	2,019	2,093	2,840	3,220	3,194	3,779	4,050
Residential & Commercial	1,129	1,097	1,093	1,110	1,182	1,440	1,622	2,050	1,762
Agriculture	-	-	-	-	-	-	-	208	-
Coal, Coal Products									
Primary Energy Supply	269	795	1,159	883	941	1,211	1,003	1,042	1,290
Indigenous Production	151	560	580	568	544	609	563	567	601
Import	118	236	579	440	286	602	441	622	655
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-47	-408	-801	-562	-605	-509	-490	-420	-587
Power Generation	-47	-408	-801	-562	-605	-509	-490	-420	-426
Final Energy Consumption	82	674	309	295	332	649	645	585	566
Industry	82	372	309	295	332	649	645	585	566
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	9,146	6,815	6,203	6,838	7,775	8,701	9,120	10,332	10,036
Indigenous Production	462	501	341	402	248	269	243	220	139
Import	8,684	6,314	6,236	6,436	7,808	9,038	9,051	10,227	9,787
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-8,809	-7,154	-6,201	-6,853	-7,786	-8,907	-9,117	-10,333	-10,256
Petroleum Refineries	-8,809	-7,154	-6,201	-6,853	-7,786	-8,907	-9,117	-10,333	-9,893
Petroleum Products									
Primary Energy Supply	937	-204	572	364	356	-445	494	723	891
Import	1,723	572	545	834	1,222	819	1,453	1,229	1,661
Export	-133	-340	-165	-394	-263	-582	-407	-663	-794
Transformation Sector	5,522	5,127	4,208	5,232	5,268	6,144	6,116	7,203	6,096
Power Generation	-2,547	-1,994	-1,586	-1,229	-2,126	-2,240	-2,469	-2,600	-3,293
Petroleum Refineries	8,069	7,121	5,794	6,461	7,394	8,383	8,586	9,803	9,389
Final Energy Consumption	7,671	5,414	5,302	5,695	5,688	6,644	6,912	8,032	7,391
Industry	3,878	2,233	2,312	2,666	1,984	2,211	2,538	2,450	2,615
Transport	2,289	2,239	2,019	2,093	2,840	3,220	3,194	3,779	3,968
Residential & Commercial	625	460	430	484	473	659	797	1,164	808
Agriculture	-	-	-	-	-	-	-	198	-
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	1,538	1,750	1,873	1,789	1,915	2,078	2,165	2,227	2,206
Thermal	1,235	1,296	1,395	1,271	1,464	1,539	1,608	1,706	1,763
Hydro	303	454	478	517	451	539	558	521	442
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,287	1,373	1,438	1,452	1,389	1,538	1,708	1,658	1,839
Industry	706	736	775	720	542	737	756	762	803
Transport	-	-	-	-	-	-	-	-	82
Residential & Commercial	505	637	663	627	708	781	825	886	954
Agriculture	-	-	-	-	-	-	-	10	-

Major Energy Indicators of Philippines (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
19,054	19,296	21,553	22,978	24,789	27,423	27,307	29,953	31,399	29,910	30,287	30,088
6,458	6,418	6,819	6,527	6,780	7,259	8,673	10,373	11,458	10,380	12,585	13,308
13,833	14,082	15,556	17,813	19,251	20,630	19,539	20,577	21,873	21,604	20,244	19,940
-906	-990	-751	-931	-1,303	-1,260	-855	-1,111	-1,824	-1,370	-1,994	-2,229
10,488	11,564	12,578	14,105	15,088	15,044	15,456	17,112	17,066	17,308	17,260	17,707
4,089	4,544	5,002	5,651	5,646	3,294	4,029	3,682	3,431	3,594	4,151	4,158
4,558	5,077	5,400	6,078	6,862	7,013	7,516	8,274	8,214	8,784	8,429	8,677
1,842	1,943	2,176	2,376	2,580	3,789	3,620	4,456	4,762	4,352	4,128	4,277
-	-	-	-	-	559	-	456	326	254	324	355
1,253	1,292	1,162	1,310	1,910	2,469	2,038	2,968	4,119	4,280	3,982	3,961
757	688	661	588	505	491	527	480	649	590	729	882
503	581	508	780	1,361	1,935	1,499	2,499	3,474	3,644	3,310	3,079
-	-	-	-	-	-	-	-	-	-	-	-
-586	-652	-573	-648	-1,131	-1,554	-1,743	-2,254	-3,389	-3,397	-3,242	-3,079
-401	-467	-393	-613	-1,097	-1,519	-1,709	-2,223	-3,374	-3,397	-3,214	-3,050
458	561	617	657	639	850	785	695	650	809	711	885
458	561	617	657	639	703	679	590	524	696	622	770
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
11,161	10,873	11,194	15,126	16,561	17,774	15,010	16,116	15,357	14,762	13,036	12,202
417	424	213	122	42	22	37	45	52	64	719	674
11,365	10,687	11,290	15,205	16,345	16,463	14,889	15,804	15,272	15,003	12,650	12,294
-301	-263	-168	-88	-	-	-	-	-	-	-447	-654
-11,462	-11,379	-11,608	-15,437	-16,673	-17,298	-16,408	-16,537	-15,727	-16,029	-13,151	-12,374
-11,041	-10,957	-11,192	-14,987	-16,152	-16,713	-15,961	-15,900	-14,955	-15,387	-12,692	-11,860
1,356	1,824	3,252	724	85	435	2,150	1,022	1,166	1,141	2,131	2,174
1,965	2,814	3,758	1,828	1,545	2,232	3,150	2,273	3,127	2,957	4,283	4,567
-605	-726	-583	-843	-1,303	-1,260	-855	-1,111	-1,824	-1,370	-1,546	-1,575
6,943	6,834	6,792	10,315	11,822	11,348	11,187	12,501	12,630	11,469	10,370	10,023
-3,548	-3,625	-3,926	-4,183	-4,006	-4,541	-4,157	-3,256	-2,174	-2,479	-1,623	-1,613
10,491	10,459	10,718	14,497	15,828	15,889	15,344	15,757	14,805	13,947	11,993	11,636
8,255	9,180	9,846	11,161	11,935	11,461	11,735	13,523	13,272	13,133	13,227	13,155
2,869	3,176	3,466	4,052	3,988	1,846	2,272	2,312	1,772	1,656	2,357	2,088
4,487	5,015	5,334	5,986	6,761	7,010	7,513	8,272	8,183	8,695	8,424	8,673
899	989	1,045	1,122	1,185	1,912	1,846	2,460	2,820	2,318	1,988	1,920
-	-	-	-	-	449	-	339	290	254	319	349
-	-	6	5	9	-	8	63	87	135	1,724	2,628
-	-	6	5	9	-	8	63	87	135	1,724	2,628
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-6	-5	-9	-	-8	-63	-87	-135	-1,724	-2,628
-	-	-6	-5	-9	-	-8	-63	-87	-135	-1,724	-2,628
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
2,225	2,286	2,620	2,887	3,158	3,427	3,576	3,551	3,895	4,046	4,168	4,546
1,843	1,854	2,116	2,351	2,554	2,905	3,140	2,877	3,224	3,435	3,563	3,869
382	433	504	536	605	522	436	674	671	611	605	677
-	-	-	-	-	-	-	-	-	-	-	-
1,775	1,824	2,115	2,287	2,515	2,733	2,936	2,894	3,144	3,366	3,322	3,667
762	808	919	942	1,019	744	1,079	779	1,134	1,243	1,172	1,299
71	62	66	92	100	2	2	3	31	90	5	5
943	954	1,131	1,254	1,395	1,877	1,774	1,996	1,942	2,033	2,140	2,357
-	-	-	-	-	110	-	117	36	-	5	6

Major Economic Indicators of Philippines

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	48.04	52.94	54.23	55.55	56.89	58.25	59.64	61.04
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	56.34	57.00	52.84	54.64	57.00	60.85	64.62	66.59
Real Term (Billions of 1995 Price and 1995 PPP)	178.75	180.86	167.64	173.37	180.85	193.06	205.04	211.26
Nominal (Billions of Current USD)	32.45	31.41	30.73	29.87	33.20	37.89	42.58	44.31
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	1,173	1,077	974	984	1,002	1,045	1,084	1,091
Real Term (1995 Price and 1995 PPP)	3,721	3,416	3,091	3,121	3,179	3,314	3,438	3,461
Nominal (Current USD)	676	593	567	538	584	650	714	726
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	243.75	524.48	571.88	608.89	682.76	799.18	925.44	1,077.24
Household Final Consumption Expenditure, etc.	156.82	362.26	420.83	444.53	482.33	558.76	649.28	767.06
General Government Final Consumption Expenditure	22.10	36.88	43.52	48.43	57.33	72.18	88.19	108.84
Gross Fixed Capital Formation	66.35	128.59	99.82	102.37	112.66	142.23	192.66	248.95
Stock Change	4.55	-14.28	-12.12	-4.93	6.81	6.97	7.25	11.21
Exports of Goods and Services	57.46	126.68	137.03	160.19	182.18	226.43	263.88	296.42
Imports of Goods and Services	69.40	131.50	125.20	136.23	179.03	215.29	280.12	358.55
Real GDP & its Components (Billions of 1985 PHP) *1								
Gross Domestic Product	609.77	616.96	571.88	591.42	616.92	658.58	699.45	720.69
Household Final Consumption Expenditure, etc.	397.40	425.77	420.83	434.82	452.39	480.56	504.62	531.77
General Government Final Consumption Expenditure	50.18	43.97	43.52	43.67	45.79	49.94	53.43	57.04
Gross Fixed Capital Formation	150.72	144.63	99.82	102.37	105.13	119.05	147.46	170.57
Stock Change	10.35	-17.06	-12.12	-4.78	6.46	5.45	5.51	5.84
Exports of Goods and Services	154.75	164.33	137.03	160.45	170.89	196.00	216.98	219.70
Imports of Goods and Services	179.48	145.93	125.20	138.02	177.53	212.36	244.59	269.15
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	23.5	23.2	24.6	24.6	24.4	23.6	22.9	22.3
Industry	40.5	38.6	35.1	34.7	34.6	35.2	35.6	35.5
Services, etc.	36.0	38.2	40.4	40.7	41.0	41.2	41.5	42.2
Manufacturing Production Index (2000=100) *2	N.A.	53.7	55.1	54.8	67.6	88.8	100.2	109.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.741	5.274	4.607	4.771	5.649	7.032	7.755	8.117
Imports, c.i.f.	8.295	6.432	5.459	5.394	7.144	8.721	11.171	13.042
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.939	-0.679	-0.482	-0.202	-1.017	-1.085	-2.598	-4.020
Current Account	-1.917	-1.294	-0.036	0.952	-0.444	-0.390	-1.456	-2.695
Overall Balance	0.891	-0.448	0.838	1.134	-0.058	0.674	0.300	-0.045
Foreign Exchange Rate (PHP/USD) *1	7.5114	16.6987	18.6073	20.3857	20.5677	21.0947	21.7367	24.3105
Purchasing Power Parity (PHP/International Dollar) *1	2.2588	3.7279	4.2671	4.3280	4.5424	4.8560	5.0855	5.5696
Price Indices								
GDP Deflator (1985=100) *3	40.0	85.0	100.0	103.0	110.7	121.3	132.3	149.5
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	13.5	25.7	31.7	31.6	32.5	36.5	40.7	46.0
Growth Rate (%) *3								
Real GDP	5.15	-7.32	-7.31	3.42	4.31	6.75	6.21	3.04
Population	2.67	2.45	2.44	2.42	2.41	2.40	2.38	2.35
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	18.2	46.7	23.2	-0.3	3.0	12.2	11.4	13.2

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

Major Economic Indicators of Philippines (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
62.43	63.86	65.32	66.81	68.34	69.91	71.52	73.18	74.88	76.63	78.32	79.94	81.50
66.20	66.43	67.83	70.81	74.12	78.45	82.52	82.04	84.83	89.89	92.55	96.65	101.01
210.04	210.75	215.21	224.66	235.17	248.91	261.82	260.31	269.15	285.22	293.65	306.65	752.74
45.42	52.98	54.37	64.08	74.12	82.85	82.34	65.17	76.16	75.91	72.04	77.95	80.42
1,060	1,040	1,038	1,060	1,085	1,122	1,154	1,121	1,133	1,173	1,182	1,209	1,239
3,364	3,300	3,295	3,362	3,441	3,561	3,661	3,557	3,595	3,722	3,749	3,836	3,932
727	830	832	959	1,085	1,185	1,151	891	1,017	991	920	975	987
1,248.01	1,351.56	1,474.46	1,692.93	1,905.95	2,171.92	2,426.74	2,665.06	2,976.90	3,354.73	3,673.69	4,022.69	4,359.05
916.38	1,019.21	1,122.53	1,258.75	1,411.90	1,595.35	1,762.01	1,980.09	2,162.14	2,335.54	2,565.02	2,750.85	2,985.21
123.89	130.52	149.06	182.78	217.04	259.50	319.93	354.41	389.24	438.86	444.83	488.74	498.44
250.15	282.78	350.54	400.14	423.20	508.74	592.58	563.64	558.25	710.49	720.70	774.08	786.84
2.11	5.62	3.05	7.23	4.70	12.86	8.67	-21.54	-10.00	-0.42	37.76	2.11	29.23
369.38	393.71	462.38	572.65	692.95	879.97	1,188.05	1,389.86	1,532.16	1,858.58	1,785.23	1,968.53	2,103.99
406.70	459.91	586.93	679.44	842.07	1,070.61	1,438.91	1,566.62	1,527.42	1,794.72	1,899.39	1,989.10	2,211.75
716.52	718.94	734.16	766.37	802.22	849.12	893.15	888.00	918.16	972.96	1,001.72	1,046.08	1,093.32
543.64	561.51	578.59	600.11	622.99	651.79	684.32	707.90	726.58	752.07	779.01	810.75	852.19
55.83	55.34	58.75	62.34	65.81	68.53	71.70	70.30	75.04	79.65	75.41	77.19	75.04
141.90	150.97	164.12	176.39	184.67	206.85	230.59	204.83	200.17	215.81	231.19	236.70	238.64
1.70	3.28	2.27	4.41	2.46	3.59	4.46	-8.03	-7.28	-1.00	12.83	-1.19	8.08
232.35	241.43	256.45	307.21	344.18	397.20	465.32	367.45	380.75	445.67	430.34	445.83	460.67
259.13	289.27	322.55	369.33	428.47	500.19	567.67	484.23	470.67	490.77	508.04	532.17	587.05
22.7	22.8	22.8	22.4	21.5	21.1	20.7	19.5	20.1	19.8	19.9	19.7	19.6
34.7	34.4	34.2	34.7	35.4	35.6	35.9	35.3	34.5	35.5	34.8	34.5	34.0
42.5	42.8	43.0	42.9	43.1	43.3	43.4	45.1	45.4	44.8	45.3	45.8	46.4
132.7	142.1	169.8	192.3	227.3	246.8	268.5	80.1	86.7	100.0	108.3	106.5	115.1
8.801	9.751	11.129	13.304	17.502	20.408	24.882	29.414	36.576	39.783	32.664	36.502	36.502
12.858	15.465	18.772	22.641	28.341	34.126	38.622	31.496	32.568	37.027	34.920	37.180	39.502
-3.211	-4.695	-6.222	-7.850	-8.944	-11.342	-11.127	-0.028	4.959	3.814	-0.743	0.407	-5.455
-1.034	-1.000	-3.016	-2.950	-1.980	-3.953	-4.351	1.546	7.219	6.258	1.323	4.383	1.396
1.755	1.689	0.336	2.327	1.235	4.338	-3.094	1.279	3.650	-0.376	0.296	-0.111	-0.079
27.4786	25.5125	27.1198	26.4172	25.7145	26.2161	29.4707	40.8931	39.0890	44.1923	50.9927	51.6036	54.2033
6.3379	6.7663	7.0683	7.6749	8.1047	8.6757	9.0763	9.9998	10.6700	10.9876	11.4865	12.0608	12.3769
174.2	188.0	200.8	220.9	237.6	255.8	271.7	300.1	324.2	344.8	366.7	384.5	398.7
N.A.	N.A.	64.1	66.7	69.6	72.4	74.9	83.1	88.9	100.0	117.0	120.4	130.2
54.5	59.2	63.3	68.6	73.2	78.7	83.1	90.8	96.2	100.0	106.8	110.0	113.8
-0.58	0.34	2.12	4.39	4.68	5.85	5.19	-0.58	3.40	5.97	2.96	4.43	4.52
2.29	2.29	2.29	2.29	2.29	2.30	2.31	2.32	2.32	2.33	2.21	2.08	1.95
N.A.	N.A.	N.A.	4.1	4.2	4.1	3.5	10.9	7.0	12.5	17.0	2.9	8.1
18.5	8.6	6.9	8.4	6.7	7.5	5.6	9.3	5.9	4.0	6.8	3.0	3.5

Original Table (Energy Demand and Supply) of Philippines in 2003

Year:2003

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	1,840,000.00	t	0.0005	ktoe/t	882.10	ktoe
CRUDE OIL AND NGL/CONDENSATE	5,013.04	kbbbl	0.1344	ktoe/kbbbl	673.75	ktoe
CRUDE OIL	148.58	kbbbl	0.1344	ktoe/kbbbl	19.97	ktoe
NGL/CONDENSATE	4,864.46	kbbbl	0.1344	ktoe/kbbbl	653.78	ktoe
NATURAL GAS AND LNG	94,802.86	Mft ³	0.0277	ktoe/Mft ³	2,627.89	ktoe
NATURAL GAS	94,802.86	Mft ³	0.0277	ktoe/Mft ³	2,627.89	ktoe
HYDRO POWER	7,869.40	GWh	0.0860	ktoe/GWh	676.77	ktoe
GEOHERMAL POWER	9,822.44	GWh	0.8600	ktoe/GWh	8,447.30	ktoe
TOTAL PRODUCTION					13,307.81	ktoe
OPENING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	9,672.00	kbbbl	0.1344	ktoe/kbbbl	1,299.92	ktoe
CRUDE OIL	9,672.00	kbbbl	0.1344	ktoe/kbbbl	1,299.92	ktoe
LPG	122.00	kbbbl	0.0922	ktoe/kbbbl	11.25	ktoe
NAPHTHA	136.00	kbbbl	0.1238	ktoe/kbbbl	16.84	ktoe
MOGAS	1,266.00	kbbbl	0.1240	ktoe/kbbbl	156.98	ktoe
JET FUEL	315.00	kbbbl	0.1270	ktoe/kbbbl	40.01	ktoe
KEROSENE	251.00	kbbbl	0.1270	ktoe/kbbbl	31.88	ktoe
DIESEL OIL	1,781.00	kbbbl	0.1347	ktoe/kbbbl	239.90	ktoe
FUEL OIL	2,227.00	kbbbl	0.1444	ktoe/kbbbl	321.58	ktoe
OTHER PETROLEUM PRODUCTS	48.00	kbbbl	0.1263	ktoe/kbbbl	6.06	ktoe
TOTAL OPENING STOCKS					2,124.41	ktoe
CLOSING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	10,506.00	kbbbl	0.1344	ktoe/kbbbl	1,412.01	ktoe
CRUDE OIL	10,506.00	kbbbl	0.1344	ktoe/kbbbl	1,412.01	ktoe
LPG	165.00	kbbbl	0.0922	ktoe/kbbbl	15.21	ktoe
NAPHTHA	381.00	kbbbl	0.1238	ktoe/kbbbl	47.17	ktoe
MOGAS	1,287.00	kbbbl	0.1240	ktoe/kbbbl	159.53	ktoe
JET FUEL	323.00	kbbbl	0.1270	ktoe/kbbbl	41.02	ktoe
KEROSENE	282.00	kbbbl	0.1270	ktoe/kbbbl	35.81	ktoe
DIESEL OIL	2,092.00	kbbbl	0.1347	ktoe/kbbbl	281.79	ktoe
FUEL OIL	1,876.00	kbbbl	0.1444	ktoe/kbbbl	270.89	ktoe
OTHER PETROLEUM PRODUCTS	73.00	kbbbl	0.1257	ktoe/kbbbl	9.17	ktoe
TOTAL CLOSING STOCKS					2,272.61	ktoe
STOCK CHANGE						
CRUDE OIL AND NGL/CONDENSATE	-834.00	kbbbl	0.1344	ktoe/kbbbl	-112.09	ktoe
CRUDE OIL	-834.00	kbbbl	0.1344	ktoe/kbbbl	-112.09	ktoe
LPG	-43.00	kbbbl	0.0922	ktoe/kbbbl	-3.96	ktoe
NAPHTHA	-245.00	kbbbl	0.1238	ktoe/kbbbl	-30.33	ktoe
MOGAS	-21.00	kbbbl	0.1215	ktoe/kbbbl	-2.55	ktoe
JET FUEL	-8.00	kbbbl	0.1270	ktoe/kbbbl	-1.02	ktoe
KEROSENE	-31.00	kbbbl	0.1270	ktoe/kbbbl	-3.94	ktoe
DIESEL OIL	-311.00	kbbbl	0.1347	ktoe/kbbbl	-41.89	ktoe
FUEL OIL	351.00	kbbbl	0.1444	ktoe/kbbbl	50.68	ktoe
OTHER PETROLEUM PRODUCTS	-25.00	kbbbl	0.1245	ktoe/kbbbl	-3.11	ktoe
TOTAL STOCK CHANGE					-148.21	ktoe
IMPORTS						
COAL	6,422,492.00	t	0.0005	ktoe/t	3,078.94	ktoe
CRUDE OIL AND NGL/CONDENSATE	91,471.00	kbbbl	0.1344	ktoe/kbbbl	12,293.70	ktoe
CRUDE OIL	91,471.00	kbbbl	0.1344	ktoe/kbbbl	12,293.70	ktoe
LPG	7,994.76	kbbbl	0.0922	ktoe/kbbbl	737.12	ktoe
NAPHTHA	232.52	kbbbl	0.1238	ktoe/kbbbl	28.79	ktoe
MOGAS	8,841.62	kbbbl	0.1245	ktoe/kbbbl	1,100.69	ktoe
JET FUEL	1,783.42	kbbbl	0.1270	ktoe/kbbbl	226.49	ktoe
AVGAS	16.62	kbbbl	0.1224	ktoe/kbbbl	2.03	ktoe
KEROSENE	786.93	kbbbl	0.1270	ktoe/kbbbl	99.94	ktoe
DIESEL OIL	13,919.32	kbbbl	0.1347	ktoe/kbbbl	1,874.93	ktoe
FUEL OIL	2,729.22	kbbbl	0.1444	ktoe/kbbbl	394.10	ktoe
OTHER PETROLEUM PRODUCTS	740.72	kbbbl	0.1393	ktoe/kbbbl	103.21	ktoe
TOTAL IMPORTS					19,939.95	ktoe
EXPORTS						
CRUDE OIL AND NGL/CONDENSATE	4,864.46	kbbbl	0.1344	ktoe/kbbbl	653.78	ktoe
NGL/CONDENSATE	4,864.46	kbbbl	0.1344	ktoe/kbbbl	653.78	ktoe
LPG	93.00	kbbbl	0.0922	ktoe/kbbbl	8.57	ktoe
NAPHTHA	4,213.00	kbbbl	0.1238	ktoe/kbbbl	521.57	ktoe
MOGAS	61.00	kbbbl	0.1223	ktoe/kbbbl	7.46	ktoe
DIESEL OIL	978.94	kbbbl	0.1347	ktoe/kbbbl	131.86	ktoe
FUEL OIL	4,972.00	kbbbl	0.1444	ktoe/kbbbl	717.96	ktoe
OTHER PETROLEUM PRODUCTS	1,523.00	kbbbl	0.1233	ktoe/kbbbl	187.79	ktoe
TOTAL EXPORTS					2,228.99	ktoe
INTERNATIONAL MARINE BUNKERS						
					782.46	ktoe
TOTAL PRIMARY ENERGY SUPPLY						
					30,088.10	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
CRUDE OIL AND NGL/CONDENSATE	88,241.50	kbbbl	0.1344	ktoe/kbbbl	11,859.66	ktoe
CRUDE OIL	88,241.50	kbbbl	0.1344	ktoe/kbbbl	11,859.66	ktoe
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
COAL	6,248,180.00	t	0.0005	ktoe/t	3,049.74	ktoe

Original Table (Energy Demand and Supply) of Philippines in 2003 (Continued)

Year:2003

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
DIESEL OIL	1,100.24	kbbbl	0.1347	ktoe/kbbbl	148.20	ktoe
FUEL OIL	10,141.98	kbbbl	0.1444	ktoe/kbbbl	1,464.50	ktoe
NATURAL GAS AND LNG	94,802.86	Mft ³	0.0277	ktoe/Mft ³	2,627.89	ktoe
NATURAL GAS	94,802.86	Mft ³	0.0277	ktoe/Mft ³	2,627.89	ktoe
HYDRO POWER	7,869.40	GWh	0.0860	ktoe/GWh	676.77	ktoe
GEOTHERMAL POWER	9,822.44	GWh	0.8600	ktoe/GWh	8,447.30	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
REFINING	88,148.44	kbbbl	0.1320	ktoe/kbbbl	11,635.70	ktoe
LPG	4,604.39	kbbbl	0.0922	ktoe/kbbbl	424.52	ktoe
NAPHTHA	4,496.21	kbbbl	0.1238	ktoe/kbbbl	556.63	ktoe
MOGAS	15,727.13	kbbbl	0.1237	ktoe/kbbbl	1,945.35	ktoe
JET FUEL	5,023.74	kbbbl	0.1270	ktoe/kbbbl	638.01	ktoe
KEROSENE	2,802.02	kbbbl	0.1270	ktoe/kbbbl	355.86	ktoe
DIESEL OIL	28,730.76	kbbbl	0.1347	ktoe/kbbbl	3,870.03	ktoe
FUEL OIL	25,969.86	kbbbl	0.1444	ktoe/kbbbl	3,750.05	ktoe
OTHER PETROLEUM PRODUCTS	794.33	kbbbl	0.1199	ktoe/kbbbl	95.23	ktoe
GAS RECOVERING						
POWER GENERATION (PUBLIC UTILITIES)	52,862.74				4,546.20	ktoe
THERMAL	35,170.90	GWh	0.0860	ktoe/GWh	3,024.70	ktoe
COAL	14,517.45	GWh	0.0860	ktoe/GWh	1,248.50	ktoe
OIL	7,514.44	GWh	0.0860	ktoe/GWh	646.24	ktoe
GAS	13,139.00	GWh	0.0860	ktoe/GWh	1,129.95	ktoe
HYDRO POWER	7,869.40	GWh	0.0860	ktoe/GWh	676.77	ktoe
GEOTHERMAL POWER	9,822.44	GWh	0.0860	ktoe/GWh	844.73	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COAL	59,043.00	t	0.0005	ktoe/t	28.82	ktoe
HARD COAL	59,043.00	t	0.0005	ktoe/t	28.82	ktoe
CRUDE OIL AND NGL/CONDENSATE	3,825.02	kbbbl	0.1344	ktoe/kbbbl	514.08	ktoe
CRUDE OIL	3,825.02	kbbbl	0.1344	ktoe/kbbbl	514.08	ktoe
ELECTRICITY	10,220.00	GWh	0.0860	ktoe/GWh	878.92	ktoe
TOTAL LOSSES AND OWN USE					1,421.82	ktoe
FINAL ENERGY CONSUMPTION TOTAL						
COAL	1,845,843.00	t	0.0005	ktoe/t	884.90	ktoe
LPG	13,183.18	kbbbl	0.0922	ktoe/kbbbl	1,215.49	ktoe
NAPHTHA	298.64	kbbbl	0.1238	ktoe/kbbbl	36.97	ktoe
MOGAS	24,572.71	kbbbl	0.1240	ktoe/kbbbl	3,046.16	ktoe
JET FUEL	1,991.53	kbbbl	0.1270	ktoe/kbbbl	252.92	ktoe
AVGAS	25.18	kbbbl	0.1224	ktoe/kbbbl	3.08	ktoe
KEROSENE	3,330.10	kbbbl	0.1270	ktoe/kbbbl	422.92	ktoe
DIESEL OIL	41,492.27	kbbbl	0.1347	ktoe/kbbbl	5,589.01	ktoe
FUEL OIL	13,148.73	kbbbl	0.1444	ktoe/kbbbl	1,898.68	ktoe
OTHER PETROLEUM PRODUCTS	606.92	kbbbl	0.1453	ktoe/kbbbl	88.19	ktoe
ELECTRICITY	42,642.00	GWh	0.0860	ktoe/GWh	3,667.21	ktoe
TOTAL					17,105.53	ktoe
AGRICULTURE						
MOGAS	63.84	kbbbl	0.1223	ktoe/kbbbl	7.81	ktoe
KEROSENE	36.35	kbbbl	0.1270	ktoe/kbbbl	4.62	ktoe
DIESEL OIL	2,228.59	kbbbl	0.1347	ktoe/kbbbl	300.19	ktoe
FUEL OIL	250.87	kbbbl	0.1444	ktoe/kbbbl	36.23	ktoe
ELECTRICITY	68.00	GWh	0.0860	ktoe/GWh	5.85	ktoe
TOTAL					354.69	ktoe
RESIDENTIAL COMMERCIAL						
LPG	11,671.49	kbbbl	0.0922	ktoe/kbbbl	1,076.11	ktoe
KEROSENE	2,645.79	kbbbl	0.1270	ktoe/kbbbl	336.02	ktoe
DIESEL OIL	2,150.93	kbbbl	0.1347	ktoe/kbbbl	289.73	ktoe
FUEL OIL	1,508.78	kbbbl	0.1444	ktoe/kbbbl	217.87	ktoe
ELECTRICITY	27,406.00	GWh	0.0860	ktoe/GWh	2,356.92	ktoe
TOTAL					4,276.64	ktoe
OTHERS						
TOTAL						ktoe
INDUSTRY						
COAL	1,606,886.00	t	0.0005	ktoe/t	770.34	ktoe
LPG	1,511.69	kbbbl	0.0922	ktoe/kbbbl	139.38	ktoe
KEROSENE	647.96	kbbbl	0.1270	ktoe/kbbbl	82.29	ktoe
DIESEL OIL	4,636.57	kbbbl	0.1347	ktoe/kbbbl	624.55	ktoe
FUEL OIL	8,601.78	kbbbl	0.1444	ktoe/kbbbl	1,242.10	ktoe
ELECTRICITY	15,110.00	GWh	0.0860	ktoe/GWh	1,299.46	ktoe
TOTAL					4,158.11	ktoe
TRANSPORT						
MOGAS	24,508.88	kbbbl	0.1240	ktoe/kbbbl	3,038.35	ktoe
JET FUEL	6,724.82	kbbbl	0.1270	ktoe/kbbbl	854.05	ktoe
AVGAS	25.18	kbbbl	0.1224	ktoe/kbbbl	3.08	ktoe
DIESEL OIL	32,476.17	kbbbl	0.1347	ktoe/kbbbl	4,374.54	ktoe
FUEL OIL	2,787.30	kbbbl	0.1444	ktoe/kbbbl	402.49	ktoe
ELECTRICITY	58.00	GWh	0.0860	ktoe/GWh	4.99	ktoe
TOTAL					8,677.50	ktoe
NON-ENERGY						
COAL	238,957.00	t	0.0005	ktoe/t	114.56	ktoe

Original Table (Energy Demand and Supply) of Philippines in 2003 (Continued)

Year:2003

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NAPHTHA	298.64	kbbbl	0.1238	ktoe/kbbbl	36.97	ktoe
OTHER PETROLEUM PRODUCTS	606.92	kbbbl	0.1453	ktoe/kbbbl	88.19	ktoe
TOTAL NON-ENERGY USE					239.72	ktoe

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER		
COAL	3958.3	
OIL	3604.05	
GAS	2763	
HYDRO POWER	2867.12	
NUCLEAR POWER		
GEOHERMAL POWER	1931.51	
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit: ktoe

	1. Fuelwood	2. Bagasse	3. Charcoal	4. Agriwaste	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION	6539.607446	1673.496777	798.4999639	2581.576888	11593.18107
IMPORTS					
EXPORTS					
TOTAL	6539.607446	1673.496777	798.4999639	2581.576888	11593.18107
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE		0			0
RESIDENTIAL COMMERCIAL	6,176	0	727	1,935	8,838
INDUSTRY	364	1,673	71	647	2,756
TRANSPORT					
TOTAL	6,540	1,673	798	2,582	11,593

Original Table (Disaggregated Final Energy Demand) of Philippines in 2003

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
	2003					
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	15,700.00	kt	0.0005	ktoe/kt	7.53	ktoe
LPG	172.01	kbbbl	0.0922	ktoe/kbbbl	15.86	ktoe
KEROSENE	7.12	kbbbl	0.1270	ktoe/kbbbl	0.90	ktoe
DIESEL OIL	518.23	kbbbl	0.1347	ktoe/kbbbl	69.81	ktoe
FUEL OIL	880.51	kbbbl	0.1444	ktoe/kbbbl	127.15	ktoe
ELECTRICITY	1,741.98	GWh	0.0860	ktoe/GWh	149.81	ktoe
OTHERS*	15.76	kbbblFOE	0.1444	ktoe/kbbblFOE	2.28	ktoe
TOTAL					373.33	ktoe
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	30,694.00	kt	0.0005	ktoe/kt	14.71	ktoe
LPG	96.43	kbbbl	0.0922	ktoe/kbbbl	8.89	ktoe
KEROSENE	202.79	kbbbl	0.1270	ktoe/kbbbl	25.75	ktoe
DIESEL OIL	151.17	kbbbl	0.1347	ktoe/kbbbl	20.36	ktoe
FUEL OIL	897.21	kbbbl	0.1444	ktoe/kbbbl	129.56	ktoe
ELECTRICITY	1,141.93	GWh	0.0860	ktoe/GWh	98.21	ktoe
TOTAL					297.49	ktoe
1.3 NON-FERROUS METALS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	1,560,492.00	kt	0.0005	ktoe/kt	748.10	ktoe
LPG	304.09	kbbbl	0.0922	ktoe/kbbbl	28.04	ktoe
KEROSENE	29.45	kbbbl	0.1270	ktoe/kbbbl	3.74	ktoe
DIESEL OIL	215.01	kbbbl	0.1347	ktoe/kbbbl	28.96	ktoe
FUEL OIL	1,393.94	kbbbl	0.1444	ktoe/kbbbl	201.28	ktoe
ELECTRICITY	2,225.02	GWh	0.0860	ktoe/GWh	191.35	ktoe
OTHERS*	203.00	kbbblFOE	0.1444	ktoe/kbbblFOE	29.31	ktoe
TOTAL					1,230.79	ktoe
1.5 PAPER, PULP AND PRINTING						
LPG	2.90	kbbbl	0.0922	ktoe/kbbbl	0.27	ktoe
KEROSENE	8.22	kbbbl	0.1270	ktoe/kbbbl	1.04	ktoe
DIESEL OIL	22.36	kbbbl	0.1347	ktoe/kbbbl	3.01	ktoe
FUEL OIL	1,175.32	kbbbl	0.1444	ktoe/kbbbl	169.72	ktoe
ELECTRICITY	1,118.74	GWh	0.0860	ktoe/GWh	96.21	ktoe
TOTAL					270.25	ktoe
1.6 OTHER INDUSTRIES						
LPG	936.25	kbbbl	0.0922	ktoe/kbbbl	86.32	ktoe
KEROSENE	400.38	kbbbl	0.1270	ktoe/kbbbl	50.85	ktoe
DIESEL OIL	3,729.80	kbbbl	0.1347	ktoe/kbbbl	502.40	ktoe
FUEL OIL	4,254.79	kbbbl	0.1444	ktoe/kbbbl	614.39	ktoe
ELECTRICITY	8,882.33	GWh	0.0860	ktoe/GWh	763.88	ktoe
OTHERS *	18,864.02	kbbblFOE	0.1444	ktoe/kbbblFOE	2,723.96	ktoe
TOTAL					4,741.81	ktoe
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	1,991.53	kbbbl	0.1270	ktoe/kbbbl	252.92	ktoe
AVGAS	25.18	kbbbl	0.1224	ktoe/kbbbl	3.08	ktoe
TOTAL					256.01	ktoe
2.2 ROAD						
MOGAS	24,489.65	kbbbl	0.1240	ktoe/kbbbl	3,036.00	ktoe
DIESEL OIL	28,920.30	kbbbl	0.1347	ktoe/kbbbl	3,895.56	ktoe
TOTAL					6,931.56	ktoe
2.3 RAIL						
DIESEL OIL	2,206.13	kbbbl	0.1347	ktoe/kbbbl	297.17	ktoe
ELECTRICITY	58.00	GWh	0.0860	ktoe/GWh	4.99	ktoe
OTHER PETROLEUM PRODUCTS					302.15	ktoe
2.4 INTERNAL NAVIGATION						
MOGAS	19.23	kbbbl	0.1223	ktoe/kbbbl	2.35	ktoe
DIESEL OIL	1,349.75	kbbbl	0.1347	ktoe/kbbbl	181.81	ktoe
FUEL OIL	2,787.30	kbbbl	0.1444	ktoe/kbbbl	402.49	ktoe
TOTAL					586.65	ktoe
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
LPG	2,507.87	kbbbl	0.0922	ktoe/kbbbl	231.23	ktoe
DIESEL OIL	2,150.93	kbbbl	0.1347	ktoe/kbbbl	289.73	ktoe
FUEL OIL	1,508.78	kbbbl	0.1444	ktoe/kbbbl	217.87	ktoe
OTHER COMMERCIAL*	3,833.03	kbbblFOE	0.1444	ktoe/kbbblFOE	553.49	ktoe
ELECTRICITY	11,048.00	GWh	0.0860	ktoe/GWh	950.13	ktoe
TOTAL					2,242.44	ktoe

Original Table (Disaggregated Final Energy Demand) of Philippines in 2003 (Continued)

2003						
Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
3.2 RESIDENTIAL						
LPG	9,163.62	kbb1	0.0922	ktoe/kbb1	844.89	ktoe
KEROSENE	2,645.79	kbb1	0.1270	ktoe/kbb1	336.02	ktoe
OTHER COMMERCIAL*	57,369.37	kbb1FOE	0.1444	ktoe/kbb1FOE	8,284.14	ktoe
ELECTRICITY	16,358.00	GWh	0.0860	ktoe/GWh	1,406.79	ktoe
TOTAL					10,871.83	ktoe

*Note: traditional fuels includes bagasse, fuelwood and agriwaste

Source: Philippine Energy Balance Table 2003

Original Table (Energy Price) of Philippines in 2003

Year: 2003

Philippines	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
CRUDE OIL	US\$/bbl	29.25	
PETROLEUM PRODUCTS	US\$/bbl	34.23	
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
A HEAVY OIL			
C FUEL OIL			
NATURAL GAS (LNG)			
WHOLESALE PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
A HEAVY OIL			
C FUEL OIL			
LPG			
CONSUMER PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS			
KEROSENE			
DIESEL OIL			
A HEAVY OIL			
LPG			
ELECTRICITY (AVERAGE)(*1)			
INDUSTRIAL USERS (*1)			
COMMERCIAL USERS (*1)			
RESIDENTIAL USERS (LIGHTING) (*1)			

Original Table (Quarterly) of Philippines in 2004

Coal		Unit: MT			
		Production	Imports	Exports	Stock Changes
2004	JAN.	168,800	575,029	-	-
	FEB.	179,893	431,907	-	-
	MAR.	188,358.21	467,096	-	-
	1st quarter	537,051	1,474,032	-	-
	APR.	205,876	399,664	-	-
	MAY.	274,908	847,634	-	-
	JUN.	109,141	381,500	-	-
	2nd quarter	589,925	1,628,798	-	-
	JUL.	283,162	422,337	-	-
	AUG.	203,192	424,182	-	-
	SEP.	223,756	705,206	-	-
	3rd quarter	710,110	1,551,725	-	-
	OCT.	184,638	558,291	-	-
	NOV.	270,498	926,355	-	-
	DEC.	160,686	265,500	-	-
	4th quarter	615,822	1,750,146	-	-
		2,452,907	6,404,701	-	-

Oil		Unit: bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	405,918	5,876,928		-354,000	4,930,245	1,077,737	644,000
	FEB.	372,464	5,330,908		-33,000	3,731,113	681,927	-613,000
	MAR.	482,643	6,216,078		2,420,000	7,024,388	858,367	25,000
	1st quarter	1,261,026	17,423,914		2,033,000	15,685,746	2,618,031	56,000
	APR.	424,415	4,695,337		-833,000	5,446,077	989,085	-65,000
	MAY.	400,994	4,988,825		-681,000	5,194,481	424,128	346,000
	JUN.	461,771	8,154,650		2,554,000	3,680,252	792,399	-776,000
	2nd quarter	1,287,181	17,838,812		1,040,000	14,320,810	2,205,612	-495,000
	JUL.	398,000	4,022,000		-3,234,000	4,898,000	503,000	1,373,000
	AUG.	4,000	7,926,000		1,259,000	4,196,000	925,000	-29,000
	SEP.	20,000	7,225,000		-115,000	4,244,000	1,150,000	684,000
	3rd quarter	422,000	19,173,000		-2,090,000	13,338,000	2,578,000	2,028,000
	OCT.	27,000	7,565,718	285,000	355,000	3,455,000	680,000	-395,000
	NOV.	322,000	7,578,574	313,000	630,000	3,299,000	722,000	611,000
	DEC.	270,000	4,914,000	290,000	-1,748,000	2,853,000	792,000	-1,082,000
	4th quarter	619,000	20,058,292	888,000	-763,000	9,607,000	2,194,000	-866,000
		3,589,206	74,494,018	888,000	220,000	52,951,556	9,595,643	723,000

Original Table (Quarterly) of Philippines in 2004 (Continued)

Natural Gas (or LNG)

Unit: 1,000m³

		Production	Imports	Exports	Stock Changes
2004	JAN.	224,293	-	-	-
	FEB.	205,845	-	-	-
	MAR.	271,795	-	-	-
	1st quarter	701,933	-	-	-
	APR.	235,919	-	-	-
	MAY.	219,357	-	-	-
	JUN.	237,409	-	-	-
	2nd quarter	692,685	-	-	-
	JUL.	212,693	-	-	-
	AUG.	187,369	-	-	-
	SEP.	169,137	-	-	-
	3rd quarter	569,199	-	-	-
	OCT.	196,172	-	-	-
	NOV.	179,246	-	-	-
	DEC.	139,259	-	-	-
	4th quarter	514,677	-	-	-
	2,478,494	-	-	-	

Electricity

Unit: GWh

		Gross Generation				Imports	Exports
		Total	Thermal	Hydro	Nuclear		
2004	JAN.	4,086	3,413	673	-	-	-
	FEB.	4,285	3,658	627	-	-	-
	MAR.	12,591	3,651	569	-	-	-
	1st quarter	12,577	10,722	1,869	-	-	-
	APR.	4,705	4,199	506	-	-	-
	MAY.	4,653	4,179	473	-	-	-
	JUN.	4,684	4,079	605	-	-	-
	2nd quarter	14,042	12,458	1,584	-	-	-
	JUL.	4,674	3,894	781	-	-	-
	AUG.	4,784	3,791	993	-	-	-
	SEP.	4,846	3,775	1,071	-	-	-
	3rd quarter	14,304	11,460	2,844	-	-	-
	OCT.	4,654	3,889	765	-	-	-
	NOV.	4,770	4,097	673	-	-	-
	DEC.	4,790	3,948	842	-	-	-
	4th quarter	14,214	11,935	2,279	-	-	-
	55,137	46,574	8,576	-	-	-	

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.16 Russia

Energy Balance Table of Russia in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	107,020	-	420,675	-	-	-	-	-	-
2 Import	9,633	1	5,766	3	0	-	-	-	1
3 Export	-22,828	-2,453	-228,995	-69,547	-4,197	-	-	-	-64,122
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-974	-	1,213	26	287	-	-	-	-212
6 Total Primary Energy Supply	92,852	-2,451	198,658	-69,518	-3,909	-	-	-	-64,332
7 Public Electricity	-44,658	-268	-	-8,624	-	-	-	-	-8,624
8 Autoproducers of Electricity	-16,389	-4,433	-918	-11,987	-	-	-	-	-10,698
9 Gas Processing	-	17,931	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-193,892	180,225	31,367	-	-	-	114,167
11 Coal Transformation	-25,224	26,132	-	-	-	-	-	-	-
12 Loss & Own Use	-396	-75	-1,382	-13,707	-	-	-	-	-
13 Discrepancy	-8	-176	-2,357	-13,687	0	-	-	-	-3,699
14 Total Final Energy Consumption	6,175	36,660	110	62,702	27,458	-	-	-	26,814
15 Industry Sector	1,298	36,643	56	9,934	-	-	-	-	5,154
16 Transport Sector	229	5	13	41,050	27,458	-	-	-	13,541
17 Other Sector	4,649	12	41	9,531	-	-	-	-	6,293
18 Agriculture	156	0	7	4,594	-	-	-	-	4,590
19 Residential & Commercial	3,854	8	34	4,937	-	-	-	-	1,702
20 Other	639	4	-	-	-	-	-	-	-
21 Non-energy	-	-	-	362	-	-	-	-	-

Energy Balance Table of Russia in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	98,937	-	379,059	-	-	-	-	-	-
2 Import	7,931	4	6,263	9	1	-	-	-	7
3 Export	-18,350	-2,243	-189,327	-69,958	-3,544	-	-	-	-65,333
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	2,605	-	-1,016	850	-210	-	-	-	1,050
6 Total Primary Energy Supply	91,123	-2,239	194,979	-69,099	-3,752	-	-	-	-64,275
7 Public Electricity	-43,240	-320	-	-8,799	-	-	-	-	-8,799
8 Autoproducers of Electricity	-16,431	-3,939	-1,002	-12,633	-	-	-	-	-11,408
9 Gas Processing	-	16,668	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-190,807	169,759	31,021	-	-	-	115,527
11 Coal Transformation	-23,882	26,329	-	-	-	-	-	-	-
12 Loss & Own Use	-286	-219	-1,071	-13,112	-	-	-	-	-
13 Discrepancy	71	-286	-1,935	-4,381	0	-	-	-	-3,997
14 Total Final Energy Consumption	7,356	35,994	164	61,736	27,269	-	-	-	27,047
15 Industry Sector	1,377	35,969	23	10,268	-	-	-	-	6,015
16 Transport Sector	258	4	6	40,432	27,269	-	-	-	12,912
17 Other Sector	5,720	22	96	9,012	-	-	-	-	6,458
18 Agriculture	145	1	8	4,340	-	-	-	-	4,332
19 Residential & Commercial	4,947	18	88	4,672	-	-	-	-	2,126
20 Other	628	2	-	-	-	-	-	-	-
21 Non-energy	-	-	-	362	-	-	-	-	-

Energy Balance Table of Russia in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	499,830	-	13,564	39,180	279	6,084	-	-	1,086,633
-	1	-	-	7,072	-	-	-	-	-	709	-	23,184
-	-1,229	-	-	-152,983	-	-	-	-	-	-1,859	-	-478,666
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-49	-	-	-11,319	-	-	-	-	71	-	-	-10,983
-	-1,276	-	-	342,600	-	13,564	39,180	279	6,155	-1,150	-	620,168
-	-	-	-	-123,464	-	-13,483	-39,180	-279	-1	74,761	56,377	-98,819
-	-27	-1,263	-	-78,506	-	-81	-	-	-3,252	3,697	94,234	-17,636
-	-	-	-	-4,834	-	-	-	-	-	-	-	13,097
-	9,685	14,657	10,349	-	-	-	-	-	-	-	-	-13,667
-	-	-	-	-	-	-	-	-	-	-	-	908
-	-692	-13,016	-	-16,098	-	-	-	-	-265	-23,278	-18,629	-73,831
-	362	0	-10,349	4,039	-	0	-	-	0	342	0	-11,846
-	8,051	379	-	123,736	-	-	-	-	2,637	54,372	131,982	418,375
-	4,401	379	-	27,501	-	-	-	-	380	28,233	48,245	152,289
-	51	-	-	31,150	-	-	-	-	-	6,467	-	78,914
-	3,238	-	-	49,336	-	-	-	-	2,257	19,673	83,738	169,236
-	4	-	-	509	-	-	-	-	119	1,750	3,410	10,546
-	3,234	-	-	46,243	-	-	-	-	1,843	17,923	80,327	155,169
-	-	-	-	2,584	-	-	-	-	295	-	-	3,521
-	362	-	-	15,749	-	-	-	-	-	-	-	16,111

Energy Balance Table of Russia in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	479,544	-	14,120	36,909	135	6,878	-	-	1,015,582
-	1	-	-	5,832	-	-	-	-	-	443	-	20,482
-	-1,081	-	-	-149,871	-	-	-	-	-	-1,556	-	-431,304
-	-	-	-	-	-	-	-	-	-	-	-	-
-	9	-	-	-9,847	-	-	-	-	30	-	-	-7,378
-	-1,071	-	-	325,658	-	14,120	36,909	135	6,908	-1,113	-	597,382
-	-	-	-	-117,153	-	-14,041	-36,909	-135	-1	72,110	54,762	-93,726
-	-50	-1,174	-	-79,376	-	-79	-	-	-4,022	4,221	95,641	-17,620
-	-	-	-	-3,158	-	-	-	-	-	-	-	13,511
-	8,599	14,613	-	-	-	-	-	-	-	-	-	-21,047
-	-	-	-	-	-	-	-	-	-	-	-	2,447
-	-12	-13,099	-	-14,058	-	-	-	-	-264	-22,369	-19,722	-71,100
-	-385	0	-	3,833	-	0	-	-	0	320	0	-2,377
-	7,081	339	-	115,747	-	-	-	-	2,621	53,168	130,681	407,468
-	3,914	339	-	26,758	-	-	-	-	412	27,489	49,493	151,789
-	251	-	-	28,279	-	-	-	-	-	5,833	-	74,813
-	2,554	-	-	46,269	-	-	-	-	2,209	19,846	81,188	164,361
-	8	-	-	482	-	-	-	-	139	1,952	3,791	10,858
-	2,546	-	-	44,511	-	-	-	-	1,804	17,894	77,397	151,331
-	-	-	-	1,275	-	-	-	-	267	-	-	2,173
-	362	-	-	14,441	-	-	-	-	-	-	-	14,802

Major Energy Indicators of Russia

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Petroleum Products									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	-	-	-	-	-	-	-	-	-
Thermal	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Russia (Continued)

												ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
762,606	729,290	631,031	614,016	602,991	583,273	570,025	587,145	613,947	604,375	597,382	620,168	
1,107,361	1,029,066	962,628	940,394	935,745	910,774	918,060	934,328	966,406	977,928	1,015,582	1,086,633	
35,612	31,583	20,868	25,461	21,350	22,309	21,022	15,699	31,550	20,293	20,482	23,184	
-368,249	-325,123	-337,004	-339,830	-354,746	-361,443	-367,309	-365,334	-379,289	-387,648	-431,304	-478,666	
582,985	560,330	482,304	461,895	417,077	399,922	391,444	405,969	422,916	422,130	407,468	418,375	
127,247	215,156	169,832	167,417	143,674	139,629	129,185	135,099	150,377	148,345	151,789	152,289	
117,147	99,839	88,308	81,858	78,145	72,091	82,892	83,560	79,956	82,495	74,813	78,914	
90,278	195,842	184,032	169,687	157,413	153,991	154,317	159,461	162,465	160,623	151,331	155,169	
19,166	24,565	24,597	24,290	18,493	17,053	14,938	14,443	13,734	12,927	10,858	10,546	
120,156	116,511	104,985	102,186	105,333	94,405	89,380	93,285	110,815	89,420	88,884	90,400	
132,776	118,862	106,016	103,569	100,643	95,870	91,388	99,228	117,020	103,795	98,937	107,020	
15,099	10,973	11,045	9,252	7,990	8,167	8,400	6,182	14,034	10,724	7,935	9,635	
-20,522	-11,991	-12,757	-13,132	-11,847	-11,672	-11,745	-13,781	-21,748	-20,093	-20,593	-25,281	
-97,095	-90,914	-81,959	-83,782	-89,141	-78,919	-76,795	-78,100	-90,859	-74,839	-45,319	-47,381	
-79,221	-76,411	-70,535	-68,681	-74,078	-66,580	-63,391	-63,581	-80,809	-65,829	-63,930	-65,748	
25,917	25,397	20,484	24,592	20,485	16,311	15,867	16,902	20,780	18,168	43,350	42,836	
13,313	13,250	11,830	16,195	14,249	10,404	10,341	10,394	10,561	10,166	37,346	37,941	
0	0	0	0	0	-	-	-	-	-	262	234	
11,042	6,977	6,540	6,198	5,761	5,548	5,266	6,204	8,783	6,738	4,965	3,862	
356	324	283	268	257	245	231	215	252	193	146	156	
262,394	236,274	192,670	189,332	182,017	181,829	170,335	175,116	183,850	188,881	194,979	198,658	
398,841	353,254	317,347	306,632	300,995	305,405	302,912	304,755	323,300	347,570	379,059	420,675	
10,748	10,351	4,852	8,547	6,771	4,024	5,603	4,656	5,921	5,144	6,263	5,766	
-143,162	-128,194	-127,359	-122,948	-127,082	-127,523	-137,922	-135,217	-145,136	-162,920	-189,327	-228,995	
-264,412	-234,069	-190,779	-186,125	-179,651	-177,933	-169,035	-174,576	-183,004	-188,260	-192,880	-196,192	
-258,888	-229,768	-188,065	-183,189	-176,754	-175,179	-164,529	-170,062	-178,793	-183,888	-190,807	-193,892	
-41,274	-35,771	-41,831	-42,125	-49,647	-51,542	-46,098	-47,785	-53,752	-55,780	-69,099	-69,518	
1,738	2,814	1,324	3,174	2,733	5,885	3,882	817	312	239	9	3	
-43,013	-43,064	-44,125	-46,465	-54,382	-57,685	-51,069	-48,515	-53,848	-56,327	-69,958	-69,547	
183,723	160,222	136,438	135,548	132,456	135,912	121,284	130,821	145,685	150,962	135,215	145,907	
-57,744	-55,555	-45,922	-37,572	-35,687	-29,744	-32,823	-26,324	-22,175	-21,276	-21,432	-20,611	
250,159	221,965	185,612	177,701	172,148	171,476	162,448	166,316	177,990	182,064	169,759	180,225	
140,078	119,424	92,368	89,418	84,000	83,713	75,186	82,957	91,932	93,360	61,736	62,702	
24,769	22,424	12,808	10,572	9,890	12,585	9,488	10,740	19,270	16,095	10,268	9,934	
75,696	60,400	50,870	46,875	43,993	42,457	46,777	47,602	47,767	50,060	40,432	41,050	
8,873	8,575	6,376	5,669	4,808	5,504	3,712	6,174	5,449	5,717	4,672	4,937	
11,583	9,379	9,545	10,425	6,999	6,904	5,849	5,881	5,903	5,916	4,340	4,594	
364,296	355,976	327,653	316,635	318,319	311,565	310,963	314,562	319,008	325,308	325,658	342,600	
517,313	499,076	490,198	480,551	485,522	460,882	477,155	477,233	470,739	468,759	479,544	499,830	
5,644	5,321	1,613	2,908	2,794	3,619	2,427	3,326	10,526	3,344	5,832	7,072	
-157,772	-138,142	-148,967	-154,019	-158,695	-162,254	-164,314	-165,885	-156,592	-146,102	-149,871	-152,983	
-229,388	-226,080	-215,829	-204,761	-205,343	-198,651	-198,718	-202,118	-203,857	-207,486	-213,745	-222,903	
-217,355	-213,280	-201,605	-189,787	-189,056	-185,765	-181,805	-185,293	-185,982	-189,190	-196,529	-201,971	
135,924	141,828	124,427	118,151	114,093	108,751	111,871	114,576	117,173	117,276	115,747	123,736	
52,177	48,217	37,988	39,751	37,697	38,963	35,612	37,642	42,763	43,496	26,758	27,501	
33,953	32,810	31,543	29,369	28,559	24,160	30,940	30,735	26,939	27,085	28,279	31,150	
48,420	59,367	53,434	47,594	46,424	44,237	43,995	44,797	45,579	45,429	44,511	46,243	
488	576	634	636	639	643	600	645	506	454	482	509	
86,883	82,415	75,464	74,096	72,989	71,865	71,264	72,951	75,704	77,063	76,331	78,458	
61,817	57,176	51,915	50,364	50,339	48,985	48,492	48,592	50,241	49,996	50,030	51,965	
14,778	14,988	15,137	15,171	13,274	13,549	13,714	13,878	14,222	15,291	14,120	13,564	
10,288	10,250	8,413	8,560	9,376	9,331	9,058	10,481	11,241	11,776	12,180	12,929	
65,047	60,696	54,635	53,176	51,701	50,730	49,753	50,965	52,333	53,151	53,168	54,372	
36,047	32,373	27,380	27,005	25,293	25,075	24,350	25,460	26,867	27,657	27,489	28,233	
7,463	6,598	5,882	5,604	5,584	5,458	5,163	5,213	5,239	5,344	5,833	6,467	
15,528	15,774	16,089	16,006	16,634	16,576	16,940	17,342	17,629	17,963	17,894	17,923	
6,009	5,951	5,284	4,561	4,189	3,620	3,299	2,950	2,598	2,187	1,952	1,750	

Major Economic Indicators of Russia

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	139.01	142.75	143.86	144.89	145.91	146.86	147.72	148.29
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	520.00	504.40
Real Term (Billions of 1995 Price and 1995 PPP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1,460.96	1,417.13
Nominal (Billions of Current USD)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3,520	3,401
Real Term (1995 Price and 1995 PPP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	9,890	9,556
Nominal (Current USD)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Nominal GDP & its Components (Billions of Current RUR) *1								
Gross Domestic Product	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.57	0.64
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	0.29	0.26	0.31
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	0.09	0.12	0.13
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.18	0.18
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.01	0.01
Exports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.13	0.12
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.12	0.12
Real GDP & its Components (Billions of 1997 RUR) *1								
Gross Domestic Product	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11,190.88	10,855.15
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3,644.80
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1,466.92
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	6,142.42
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	771.03
Exports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3,926.52
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	4,678.68
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	5.5
Industry	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	42.6
Services, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	37.8
Industrial Production Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Imports, c.i.f.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Current Account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Overall Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Foreign Exchange Rate (RUR/USD) *1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Purchasing Power Parity (RUR/International Dollar) *1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.0005	0.0005
Price Indices								
GDP Deflator (2000=100) *3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.0	0.0
Producer Price Index (2000=100) *3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2000=100) *3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Growth Rate (%)								
Real GDP (*3)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-3.00
Population (*3)	0.71	0.76	0.78	0.72	0.70	0.65	0.59	0.39
Price (*2)								
Producer 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.	N.A.	N.A.	N.A.	N.A.

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

Major Economic Indicators of Russia (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
148.62	148.69	148.52	148.34	148.14	147.74	147.30	146.90	146.31	145.56	144.75	144.07	143.43
478.94	409.35	373.86	326.87	313.33	302.05	306.27	290.04	308.61	339.47	356.75	373.43	400.88
1,345.61	1,150.08	1,050.38	918.35	880.30	848.61	860.49	814.88	867.04	953.74	1,002.31	1,049.17	752.74
N.A.	N.A.	172.95	278.79	313.33	392.08	404.94	270.95	195.91	259.72	306.62	345.61	432.86
3,223	2,753	2,517	2,204	2,115	2,044	2,079	1,974	2,109	2,332	2,465	2,592	2,795
9,054	7,735	7,072	6,191	5,942	5,744	5,842	5,547	5,926	6,552	6,924	7,282	7,853
N.A.	N.A.	1,164	1,879	2,115	2,654	2,749	1,844	1,339	1,784	2,118	2,399	3,018
1.40	19.01	171.51	610.75	1,428.50	2,007.80	2,342.50	2,629.60	4,823.20	7,305.60	8,943.60	10,834.20	13,285.20
0.66	7.12	77.60	310.26	744.10	1,044.50	1,282.40	1,511.20	2,582.50	3,374.30	4,416.90	5,545.20	6,722.60
0.23	2.63	34.37	116.65	272.50	391.40	493.50	492.60	703.20	1,102.50	1,469.90	1,916.00	2,246.80
0.33	4.55	34.97	133.21	301.10	401.60	428.50	424.70	693.90	1,232.00	1,689.30	1,943.40	2,417.70
0.18	2.03	11.35	22.76	62.30	73.60	86.30	-31.20	21.40	133.70	273.80	242.60	319.70
0.19	11.85	65.52	169.53	418.40	523.50	579.30	821.00	2,084.60	3,218.90	3,299.60	3,790.30	4,649.40
0.18	9.17	52.30	141.67	369.90	438.70	527.70	645.60	1,262.40	1,755.80	2,165.90	2,646.20	3,134.20
10,307.30	8,809.54	8,045.88	7,034.53	6,743.05	6,500.30	6,591.31	6,241.97	6,641.45	7,305.60	7,677.60	8,036.60	8,627.20
3,477.14	3,372.82	3,413.29	3,454.25	3,357.54	3,197.35	3,352.62	3,241.69	3,148.87	3,374.30	3,688.80	4,009.60	4,322.50
1,301.16	1,147.62	1,074.17	1,043.02	1,031.55	1,063.53	1,038.00	1,048.38	1,080.88	1,102.50	1,093.80	1,122.40	1,146.80
5,190.34	3,036.35	2,252.97	1,667.20	1,542.16	1,215.22	1,119.22	980.44	1,043.18	1,232.00	1,358.30	1,398.90	1,579.10
1,564.10	1,225.70	756.04	403.00	304.46	372.87	403.76	-145.84	-263.67	133.70	236.00	159.70	189.30
2,749.50	1,961.04	2,002.47	2,254.19	2,514.27	2,607.30	2,594.27	2,643.56	2,939.63	3,218.90	3,354.60	3,677.90	4,183.30
2,506.96	1,676.56	1,506.24	1,569.77	1,901.89	1,926.62	1,934.32	1,597.75	1,326.13	1,755.80	2,084.40	2,388.30	2,855.10
5.5	5.9	6.2	6.2	6.0	5.9	5.9	5.1	5.6	5.8	6.1	6.0	5.7
41.6	38.2	36.3	33.2	33.1	32.4	32.3	32.3	33.3	33.9	34.1	33.8	34.2
39.1	42.7	45.1	48.9	49.6	51.3	51.6	52.6	50.6	49.7	49.0	49.4	49.2
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	67.540	81.095	88.600	88.330	74.884	75.665	105.565	103.139	107.110	134.377
N.A.	N.A.	N.A.	50.520	60.945	68.830	73.615	58.015	39.537	44.659	53.629	60.221	74.231
N.A.	N.A.	N.A.	16.928	19.816	21.591	14.913	16.429	36.012	60.172	48.121	46.335	59.860
N.A.	N.A.	N.A.	7.844	6.965	10.847	-0.080	0.216	24.611	46.840	33.795	29.116	35.410
N.A.	N.A.	N.A.	-19.113	-8.326	-17.218	-6.520	-21.378	-1.704	13.922	11.266	11.563	27.762
N.A.	N.A.	0.9917	2.1908	4.5592	5.1208	5.7848	9.7051	24.6199	28.1292	29.1685	31.3485	30.6920
0.0011	0.0176	0.1698	0.6813	1.6227	2.3093	2.5933	2.9717	5.0717	6.9303	7.9834	9.0507	10.0354
0.0	0.2	2.1	8.7	21.2	30.9	35.5	42.1	72.6	100.0	116.5	134.8	154.0
N.A.	N.A.	1.6	6.9	23.1	34.9	40.1	42.9	68.2	100.0	119.2	131.6	153.2
N.A.	0.2	1.7	6.9	20.6	30.4	34.9	44.6	82.8	100.0	121.5	140.6	159.8
-5.05	-14.53	-8.67	-12.57	-4.14	-3.60	1.40	-5.30	6.40	10.00	5.09	4.68	7.35
0.22	0.04	-0.11	-0.12	-0.13	-0.27	-0.29	-0.27	-0.40	-0.52	-0.55	-0.47	-0.45
N.A.	n.a.	943.8	337.0	236.5	50.8	15.0	7.0	58.9	46.5	19.2	10.4	16.4
N.A.	N.A.	874.6	307.6	197.5	47.7	14.8	27.7	85.7	20.8	21.5	15.8	13.7

Original Table (Energy Demand and Supply) of Russia in 2003

Year:2003

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	256,979.00	kt	0.5949	ktce/kt	152,885.63	ktce
HARD COAL	177,435.00	kt	0.6182	ktce/kt	109,693.24	ktce
STEAM COAL	120,884.00	kt	0.5430	ktce/kt	65,640.01	ktce
COKING COAL	56,551.00	kt	0.7790	ktce/kt	44,053.23	ktce
LIGNITE	79,544.00	kt	0.5430	ktce/kt	43,192.39	ktce
CRUDE OIL AND NGL/CONDENSATE	418,582.30	kt	1.4357	ktce/kt	600,964.47	ktce
CRUDE OIL	418,582.30	kt	1.4357	ktce/kt	600,964.47	ktce
NATURAL GAS AND LNG	618,755.00	Mm ³	1.1540	ktce/Mm ³	714,043.27	ktce
NATURAL GAS	618,755.00	Mm ³	1.1540	ktce/Mm ³	714,043.27	ktce
HYDRO POWER	157,720.20	GWh	0.1229	ktce/GWh	19,377.05	ktce
NUCLEAR POWER	150,342.30	GWh	0.3723	ktce/GWh	55,971.59	ktce
GEO THERMAL POWER	323.80	GWh	1.2286	ktce/GWh	397.81	ktce
OTHER POWER	8.60	GWh	0.1229	ktce/GWh	1.06	ktce
WIND	8.60	GWh	0.1229	ktce/GWh	1.06	ktce
OTHERS	254,700.60	TJ	0.0341	ktce/TJ	8,690.60	ktce
TOTAL PRODUCTION					1,552,332.54	ktce
OPENING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	36,822.50	kt	1.4357	ktce/kt	52,866.58	ktce
CRUDE OIL	36,822.50	kt	1.4357	ktce/kt	52,866.58	ktce
LPG	100.70	kt	1.6143	ktce/kt	162.56	ktce
MOGAS	1,752.90	kt	1.5286	ktce/kt	2,679.43	ktce
DIESEL OIL	9,438.00	kt	1.4786	ktce/kt	13,954.75	ktce
TOTAL OPENING STOCKS					69,663.32	ktce
CLOSING STOCKS						
CRUDE OIL AND NGL/CONDENSATE	35,615.80	kt	1.4357	ktce/kt	51,134.10	ktce
CRUDE OIL	35,615.80	kt	1.4357	ktce/kt	51,134.10	ktce
LPG	144.20	kt	1.6143	ktce/kt	232.78	ktce
MOGAS	1,484.40	kt	1.5286	ktce/kt	2,269.01	ktce
DIESEL OIL	9,642.90	kt	1.4786	ktce/kt	14,257.71	ktce
TOTAL CLOSING STOCKS					67,893.61	ktce
STOCK CHANGE						
COAL	-2,203.90	kt	0.6312	ktce/kt	-1,391.18	ktce
HARD COAL	-1,952.80	kt	0.6426	ktce/kt	-1,254.83	ktce
STEAM COAL	-1,128.80	kt	0.5430	ktce/kt	-612.94	ktce
COKING COAL	-824.00	kt	0.7790	ktce/kt	-641.90	ktce
LIGNITE	-251.10	kt	0.5430	ktce/kt	-136.35	ktce
CRUDE OIL AND NGL/CONDENSATE	1,206.70	kt	1.4357	ktce/kt	1,732.48	ktce
CRUDE OIL	1,206.70	kt	1.4357	ktce/kt	1,732.48	ktce
LPG	-43.50	kt	1.6143	ktce/kt	-70.22	ktce
MOGAS	268.50	kt	1.5286	ktce/kt	410.42	ktce
DIESEL OIL	-204.90	kt	1.4786	ktce/kt	-302.96	ktce
NATURAL GAS AND LNG	-14,012.00	Mm ³	1.1540	ktce/Mm ³	-16,169.85	ktce
NATURAL GAS	-14,012.00	Mm ³	1.1540	ktce/Mm ³	-16,169.85	ktce
OTHERS	2,957.30	TJ	0.0341	ktce/TJ	100.91	ktce
TOTAL STOCK CHANGE					-15,690.41	ktce
IMPORTS						
COAL	25,344.30	kt	0.5430	ktce/kt	13,761.95	ktce
HARD COAL	25,217.00	kt	0.5430	ktce/kt	13,692.83	ktce
STEAM COAL	25,217.00	kt	0.5430	ktce/kt	13,692.83	ktce
LIGNITE	127.30	kt	0.5430	ktce/kt	69.12	ktce
COKE	2.00	kt	0.9900	ktce/kt	1.98	ktce
CRUDE OIL AND NGL/CONDENSATE	5,737.00	kt	1.4357	ktce/kt	8,236.69	ktce
CRUDE OIL	5,737.00	kt	1.4357	ktce/kt	8,236.69	ktce
LPG	1.30	kt	1.6143	ktce/kt	2.10	ktce
MOGAS	0.30	kt	1.5286	ktce/kt	0.46	ktce
DIESEL OIL	1.10	kt	1.4786	ktce/kt	1.63	ktce
NATURAL GAS AND LNG	8,755.00	Mm ³	1.1540	ktce/Mm ³	10,103.27	ktce
NATURAL GAS	8,755.00	Mm ³	1.1540	ktce/Mm ³	10,103.27	ktce
ELECTRICITY	8,241.10	GWh	0.1229	ktce/GWh	1,012.48	ktce
TOTAL IMPORTS					33,120.56	ktce
EXPORTS						
COAL	55,941.60	kt	0.5829	ktce/kt	32,611.14	ktce
HARD COAL	54,624.60	kt	0.5839	ktce/kt	31,896.01	ktce
STEAM COAL	45,154.90	kt	0.5430	ktce/kt	24,519.11	ktce
COKING COAL	9,469.70	kt	0.7790	ktce/kt	7,376.90	ktce
LIGNITE	1,317.00	kt	0.5430	ktce/kt	715.13	ktce
COKE	3,536.70	kt	0.9900	ktce/kt	3,501.33	ktce
BRIQUETTES	4.40	kt	0.6000	ktce/kt	2.64	ktce
CRUDE OIL AND NGL/CONDENSATE	227,856.00	kt	1.4357	ktce/kt	327,136.05	ktce
CRUDE OIL	227,856.00	kt	1.4357	ktce/kt	327,136.05	ktce
LPG	1,087.40	kt	1.6143	ktce/kt	1,755.37	ktce
MOGAS	3,922.20	kt	1.5286	ktce/kt	5,995.36	ktce
DIESEL OIL	61,953.20	kt	1.4786	ktce/kt	91,602.20	ktce
NATURAL GAS AND LNG	189,382.80	Mm ³	1.1540	ktce/Mm ³	218,547.75	ktce
NATURAL GAS	189,382.80	Mm ³	1.1540	ktce/Mm ³	218,547.75	ktce
ELECTRICITY	21,619.00	GWh	0.1229	ktce/GWh	2,656.05	ktce
TOTAL EXPORTS					683,807.90	ktce
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					885,954.79	ktce

Original Table (Energy Demand and Supply) of Russia in 2003 (Continued)

Year:2003

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	46,257.30	kt	0.7790	ktce/kt	36,034.44	ktce
HARD COAL	46,257.30	kt	0.7790	ktce/kt	36,034.44	ktce
COKING COAL	46,257.30	kt	0.7790	ktce/kt	36,034.44	ktce
REFINING						
CRUDE OIL AND NGL/CONDENSATE	192,927.30	kt	1.4357	ktce/kt	276,988.43	ktce
CRUDE OIL	192,927.30	kt	1.4357	ktce/kt	276,988.43	ktce
GAS PROCESSING						
NATURAL GAS AND LNG	5,984.45	Mm ³	1.1540	ktce/Mm ³	6,906.05	ktce
NATURAL GAS	5,984.45	Mm ³	1.1540	ktce/Mm ³	6,906.05	ktce
POWER GENERATION (PUBLIC UTILITIES)						
COAL	117,911.80	kt	0.5411	ktce/kt	63,797.53	ktce
HARD COAL	58,710.80	kt	0.5430	ktce/kt	31,879.96	ktce
STEAM COAL	58,710.80	kt	0.5430	ktce/kt	31,879.96	ktce
LIGNITE	58,075.00	kt	0.5430	ktce/kt	31,534.73	ktce
BRIQUETTES	1,126.00	kt	0.3400	ktce/kt	382.84	ktce
DIESEL OIL	8,332.00	kt	1.4786	ktce/kt	12,319.45	ktce
NATURAL GAS AND LNG	152,840.20	Mm ³	1.1540	ktce/Mm ³	176,377.59	ktce
NATURAL GAS	152,840.20	Mm ³	1.1540	ktce/Mm ³	176,377.59	ktce
HYDRO POWER	156,776.30	GWh	0.1229	ktce/GWh	19,261.09	ktce
NUCLEAR POWER	150,342.30	GWh	0.3723	ktce/GWh	55,971.59	ktce
GEOTHERMAL POWER	323.80	GWh	1.2286	ktce/GWh	397.81	ktce
OTHER POWER	8.60	GWh	0.1229	ktce/GWh	1.06	ktce
WIND	8.60	GWh	0.1229	ktce/GWh	1.06	ktce
POWER GENERATION (AUTO PRODUCERS)						
COAL	43,118.40	kt	0.5430	ktce/kt	23,413.29	ktce
HARD COAL	25,476.00	kt	0.5430	ktce/kt	13,833.47	ktce
STEAM COAL	25,476.00	kt	0.5430	ktce/kt	13,833.47	ktce
LIGNITE	17,642.40	kt	0.5430	ktce/kt	9,579.82	ktce
COKE OVEN GAS	2,177.31	Mm ³	0.5700	ktce/Mm ³	1,241.06	ktce
BLAST FURNACE GAS	11,764.46	Mm ³	0.4300	ktce/Mm ³	5,058.72	ktce
CRUDE OIL AND NGL/CONDENSATE	913.60	kt	1.4357	ktce/kt	1,311.67	ktce
CRUDE OIL	913.60	kt	1.4357	ktce/kt	1,311.67	ktce
REFINERY GAS	1,098.10	kt	1.6429	ktce/kt	1,804.02	ktce
LPG	23.50	kt	1.6143	ktce/kt	37.94	ktce
DIESEL OIL	10,336.20	kt	1.4786	ktce/kt	15,282.81	ktce
NATURAL GAS AND LNG	97,185.18	Mm ³	1.1540	ktce/Mm ³	112,151.70	ktce
NATURAL GAS	97,185.18	Mm ³	1.1540	ktce/Mm ³	112,151.70	ktce
COKE	11.30	kt	0.9900	ktce/kt	11.19	ktce
BRIQUETTES	36.20	kt	0.6000	ktce/kt	21.72	ktce
HYDRO POWER	943.90	GWh	0.1229	ktce/GWh	115.96	ktce
OTHERS	136,137.40	TJ	0.0341	ktce/TJ	4,645.12	ktce
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	31,289.00	kt	0.9900	ktce/kt	30,976.11	ktce
COKE OVEN GAS	11,051.82	Mm ³	0.5700	ktce/Mm ³	6,299.54	ktce
BRIQUETTES	92.80	kt	0.6000	ktce/kt	55.68	ktce
GAS RECOVERING						
BLAST FURNACE GAS	59,572.87	Mm ³	0.4300	ktce/Mm ³	25,616.34	ktce
REFINING						
REFINERY GAS	12,745.30	kt	1.6429	ktce/kt	20,938.71	ktce
LPG	8,570.50	kt	1.6143	ktce/kt	13,835.24	ktce
MOGAS	29,315.30	kt	1.5286	ktce/kt	44,810.53	ktce
DIESEL OIL	110,306.70	kt	1.4786	ktce/kt	163,096.29	ktce
OTHER PETROLEUM PRODUCTS	10,780.00	kt	1.3714	ktce/kt	14,784.00	ktce
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	561,851.20	GWh	0.1229	ktce/GWh	69,027.43	ktce
HYDRO POWER	156,776.30	GWh	0.1229	ktce/GWh	19,261.09	ktce
NUCLEAR POWER	150,342.30	GWh	0.1229	ktce/GWh	18,470.63	ktce
GEOTHERMAL POWER	323.80	GWh	0.1229	ktce/GWh	39.78	ktce
OTHER POWER	8.60	GWh	0.1229	ktce/GWh	1.06	ktce
WIND	8.60	GWh	0.1229	ktce/GWh	1.06	ktce
HEAT	2,360,410.00	TJ	0.0341	ktce/TJ	80,539.21	ktce
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	42,050.10	GWh	0.1229	ktce/GWh	5,166.16	ktce
HYDRO POWER	943.90	GWh	0.1229	ktce/GWh	115.96	ktce
HEAT	3,945,369.00	TJ	0.0341	ktce/TJ	134,619.37	ktce
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
COAL	1,042.90	kt	0.5430	ktce/kt	566.29	ktce
HARD COAL	926.20	kt	0.5430	ktce/kt	502.93	ktce
STEAM COAL	926.20	kt	0.5430	ktce/kt	502.93	ktce
LIGNITE	116.70	kt	0.5430	ktce/kt	63.37	ktce
COKE	107.90	kt	0.9900	ktce/kt	106.82	ktce
BRIQUETTES	0.40	kt	0.6000	ktce/kt	0.24	ktce
CRUDE OIL AND NGL/CONDENSATE	1,374.80	kt	1.4357	ktce/kt	1,973.82	ktce
CRUDE OIL	1,374.80	kt	1.4357	ktce/kt	1,973.82	ktce
REFINERY GAS	11,318.00	kt	1.6429	ktce/kt	18,593.86	ktce
LPG	612.20	kt	1.6143	ktce/kt	988.27	ktce
NATURAL GAS AND LNG	19,928.45	Mm ³	1.1540	ktce/Mm ³	22,997.43	ktce

Original Table (Energy Demand and Supply) of Russia in 2003 (Continued)

Year:2003

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NATURAL GAS	19,928.45	Mm ³	1.1540	ktce/Mm ³	22,997.43	ktce
ELECTRICITY	270,674.60	GWh	0.1229	ktce/GWh	33,254.31	ktce
HEAT	779,946.00	TJ	0.0341	ktce/TJ	26,612.43	ktce
OTHERS	11,109.60	TJ	0.0341	ktce/TJ	379.07	ktce
TOTAL LOSSES AND OWN USE					105,472.53	ktce
FINAL ENERGY CONSUMPTION TOTAL						
COAL	16,246.80	kt	0.5430	ktce/kt	8,822.01	ktce
HARD COAL	14,036.90	kt	0.5430	ktce/kt	7,622.04	ktce
STEAM COAL	14,036.90	kt	0.5430	ktce/kt	7,622.04	ktce
LIGNITE	2,209.90	kt	0.5430	ktce/kt	1,199.98	ktce
COKE	26,997.60	kt	0.9900	ktce/kt	26,727.62	ktce
COKE OVEN GAS	8,874.51	Mm ³	0.5700	ktce/Mm ³	5,058.47	ktce
BRIQUETTES	46.50	kt	0.6000	ktce/kt	27.90	ktce
BLAST FURNACE GAS	47,808.42	Mm ³	0.4300	ktce/Mm ³	20,557.62	ktce
CRUDE OIL AND NGL/CONDENSATE	109.30	kt	1.4357	ktce/kt	156.92	ktce
CRUDE OIL	109.30	kt	1.4357	ktce/kt	156.92	ktce
REFINERY GAS	329.20	kt	1.6429	ktce/kt	540.83	ktce
LPG	6,805.20	kt	1.6143	ktce/kt	10,985.54	ktce
MOGAS	25,661.90	kt	1.5286	ktce/kt	39,226.05	ktce
DIESEL OIL	25,907.20	kt	1.4786	ktce/kt	38,305.63	ktce
NATURAL GAS AND LNG	153,177.02	Mm ³	1.1540	ktce/Mm ³	176,766.28	ktce
NATURAL GAS	153,177.02	Mm ³	1.1540	ktce/Mm ³	176,766.28	ktce
HEAT	5,525,833.00	TJ	0.0341	ktce/TJ	188,546.16	ktce
ELECTRICITY	632,232.50	GWh	0.1229	ktce/GWh	77,674.28	ktce
OTHERS	110,411.00	TJ	0.0341	ktce/TJ	3,767.32	ktce
TOTAL					597,162.64	ktce
AGRICULTURE						
COAL	410.50	kt	0.5430	ktce/kt	222.90	ktce
HARD COAL	214.00	kt	0.5430	ktce/kt	116.20	ktce
STEAM COAL	214.00	kt	0.5430	ktce/kt	116.20	ktce
LIGNITE	196.50	kt	0.5430	ktce/kt	106.70	ktce
COKE	0.10	kt	0.9900	ktce/kt	0.10	ktce
BRIQUETTES	0.20	kt	0.6000	ktce/kt	0.12	ktce
CRUDE OIL AND NGL/CONDENSATE	6.90	kt	1.4357	ktce/kt	9.91	ktce
CRUDE OIL	6.90	kt	1.4357	ktce/kt	9.91	ktce
LPG	3.40	kt	1.6143	ktce/kt	5.49	ktce
DIESEL OIL	4,435.10	kt	1.4786	ktce/kt	6,557.61	ktce
NATURAL GAS AND LNG	629.79	Mm ³	1.1540	ktce/Mm ³	726.77	ktce
NATURAL GAS	629.79	Mm ³	1.1540	ktce/Mm ³	726.77	ktce
HEAT	142,783.00	TJ	0.0341	ktce/TJ	4,871.88	ktce
ELECTRICITY	20,347.90	GWh	0.1229	ktce/GWh	2,499.88	ktce
OTHERS	5,002.80	TJ	0.0341	ktce/TJ	170.70	ktce
TOTAL					15,065.36	ktce
RESIDENTIAL COMMERCIAL						
COAL	10,138.80	kt	0.5430	ktce/kt	5,505.37	ktce
HARD COAL	8,529.80	kt	0.5430	ktce/kt	4,631.68	ktce
STEAM COAL	8,529.80	kt	0.5430	ktce/kt	4,631.68	ktce
LIGNITE	1,609.00	kt	0.5430	ktce/kt	873.69	ktce
COKE	5.00	kt	0.9900	ktce/kt	4.95	ktce
BRIQUETTES	11.30	kt	0.6000	ktce/kt	6.78	ktce
CRUDE OIL AND NGL/CONDENSATE	33.80	kt	1.4357	ktce/kt	48.53	ktce
CRUDE OIL	33.80	kt	1.4357	ktce/kt	48.53	ktce
LPG	2,862.10	kt	1.6143	ktce/kt	4,620.25	ktce
DIESEL OIL	1,644.80	kt	1.4786	ktce/kt	2,431.95	ktce
NATURAL GAS AND LNG	57,245.50	Mm ³	1.1540	ktce/Mm ³	66,061.31	ktce
NATURAL GAS	57,245.50	Mm ³	1.1540	ktce/Mm ³	66,061.31	ktce
HEAT	3,363,140.00	TJ	0.0341	ktce/TJ	114,753.22	ktce
ELECTRICITY	208,403.60	GWh	0.1229	ktce/GWh	25,603.87	ktce
OTHERS	77,176.00	TJ	0.0341	ktce/TJ	2,633.31	ktce
TOTAL					221,669.53	ktce
OTHERS						
COAL	1,681.00	kt	0.5430	ktce/kt	912.78	ktce
HARD COAL	1,511.00	kt	0.5430	ktce/kt	820.47	ktce
STEAM COAL	1,511.00	kt	0.5430	ktce/kt	820.47	ktce
LIGNITE	170.00	kt	0.5430	ktce/kt	92.31	ktce
COKE	4.60	kt	0.9900	ktce/kt	4.55	ktce
BRIQUETTES	1.00	kt	0.6000	ktce/kt	0.60	ktce
NATURAL GAS AND LNG	3,199.20	Mm ³	1.1540	ktce/Mm ³	3,691.87	ktce
NATURAL GAS	3,199.20	Mm ³	1.1540	ktce/Mm ³	3,691.87	ktce
OTHERS	12,334.10	TJ	0.0341	ktce/TJ	420.85	ktce
TOTAL					5,030.66	ktce
INDUSTRY						
COAL	3,415.00	kt	0.5430	ktce/kt	1,854.35	ktce
HARD COAL	3,259.60	kt	0.5430	ktce/kt	1,769.96	ktce
STEAM COAL	3,259.60	kt	0.5430	ktce/kt	1,769.96	ktce
LIGNITE	155.40	kt	0.5430	ktce/kt	84.38	ktce
COKE	26,981.20	kt	0.9900	ktce/kt	26,711.39	ktce
COKE OVEN GAS	8,874.51	Mm ³	0.5700	ktce/Mm ³	5,058.47	ktce
BRIQUETTES	33.40	kt	0.6000	ktce/kt	20.04	ktce
BLAST FURNACE GAS	47,808.42	Mm ³	0.4300	ktce/Mm ³	20,557.62	ktce
CRUDE OIL AND NGL/CONDENSATE	55.60	kt	1.4357	ktce/kt	79.83	ktce

Original Table (Energy Demand and Supply) of Russia in 2003 (Continued)

Year:2003

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
CRUDE OIL	55.60	kt	1.4357	ktce/kt	79.83	ktce
REFINERY GAS	329.20	kt	1.6429	ktce/kt	540.83	ktce
LPG	3,894.90	kt	1.6143	ktce/kt	6,287.48	ktce
DIESEL OIL	4,979.50	kt	1.4786	ktce/kt	7,362.54	ktce
NATURAL GAS AND LNG	34,043.94	Mm ³	1.1540	ktce/Mm ³	39,286.70	ktce
NATURAL GAS	34,043.94	Mm ³	1.1540	ktce/Mm ³	39,286.70	ktce
HEAT	2,019,910.00	TJ	0.0341	ktce/TJ	68,921.06	ktce
ELECTRICITY	328,286.90	GWh	0.1229	ktce/GWh	40,332.39	ktce
OTHERS	15,898.10	TJ	0.0341	ktce/TJ	542.46	ktce
TOTAL					217,555.16	ktce
TRANSPORT						
COAL	601.50	kt	0.5430	ktce/kt	326.61	ktce
HARD COAL	522.50	kt	0.5430	ktce/kt	283.72	ktce
STEAM COAL	522.50	kt	0.5430	ktce/kt	283.72	ktce
LIGNITE	79.00	kt	0.5430	ktce/kt	42.90	ktce
COKE	6.70	kt	0.9900	ktce/kt	6.63	ktce
BRIQUETTES	0.60	kt	0.6000	ktce/kt	0.36	ktce
CRUDE OIL AND NGL/CONDENSATE	13.00	kt	1.4357	ktce/kt	18.66	ktce
CRUDE OIL	13.00	kt	1.4357	ktce/kt	18.66	ktce
LPG	44.80	kt	1.6143	ktce/kt	72.32	ktce
MOGAS	25,661.90	kt	1.5286	ktce/kt	39,226.05	ktce
DIESEL OIL	13,083.30	kt	1.4786	ktce/kt	19,344.59	ktce
NATURAL GAS AND LNG	38,561.84	Mm ³	1.1540	ktce/Mm ³	44,500.36	ktce
NATURAL GAS	38,561.84	Mm ³	1.1540	ktce/Mm ³	44,500.36	ktce
ELECTRICITY	75,194.10	GWh	0.1229	ktce/GWh	9,238.13	ktce
TOTAL					112,733.72	ktce
NON-ENERGY						
LPG	320.00	kt	1.6143	ktce/kt	516.57	ktce
NATURAL GAS AND LNG	19,496.76	Mm ³	1.1540	ktce/Mm ³	22,499.26	ktce
NATURAL GAS	19,496.76	Mm ³	1.1540	ktce/Mm ³	22,499.26	ktce
TOTAL NON-ENERGY USE					23,015.84	ktce

Original Table (Energy Demand and Supply) of Russia in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER	147,954.9	
COAL		
OIL		
GAS		
HYDRO POWER	45,221.3	
NUCLEAR POWER	22,742.0	
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	80.0	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of Russia in 2003

2003						
Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	270.90	kt	0.7790	ktce/kt	208.20	ktce
HARD COAL	258.90	kt	0.7790	ktce/kt	201.68	ktce
STEAM COAL	258.90	kt	0.7790	ktce/kt	201.68	ktce
LIGNITE	12.00	kt	0.5430	ktce/kt	6.52	ktce
COKE	25,584.00	kt	0.9900	ktce/kt	25,328.16	ktce
CRUDE OIL AND NGL/CONDENSATE	21.70	kt	1.4357	ktce/kt	31.15	ktce
CRUDE OIL	21.70	kt	1.4357	ktce/kt	31.15	ktce
LPG	4.60	kt	1.6143	ktce/kt	7.43	ktce
DIESEL OIL	874.30	kt	1.4786	ktce/kt	1,292.71	ktce
NATURAL GAS/LNG	15,564.29	Mm ³	1.1540	ktce/Mm ³	17,961.20	ktce
NATURAL GAS	15,564.29	Mm ³	1.1540	ktce/Mm ³	17,961.20	ktce
HEAT	228,607.00	TJ	0.0341	ktce/TJ	7,800.27	ktce
ELECTRICITY	67,131.00	GWh	0.1229	ktce/GWh	8,247.52	ktce
OTHERS	5,511.20	TJ	0.0341	ktce/TJ	188.05	ktce
TOTAL					61,064.69	ktce
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	3.40	kt	0.7790	ktce/kt	2.53	ktce
HARD COAL	2.90	kt	0.7790	ktce/kt	2.26	ktce
STEAM COAL	2.90	kt	0.7790	ktce/kt	2.26	ktce
LIGNITE	0.50	kt	0.5430	ktce/kt	0.27	ktce
COKE	9.20	kt	0.9900	ktce/kt	9.11	ktce
COKE OVEN GAS	9,860.57	Mm ³	0.5700	ktce/Mm ³	5,620.52	ktce
BLAST FURNACE GAS	53,120.46	Mm ³	0.4300	ktce/Mm ³	22,841.80	ktce
CRUDE OIL AND NGL/CONDENSATE	13.30	kt	1.4357	ktce/kt	19.09	ktce
CRUDE OIL	13.30	kt	1.4357	ktce/kt	19.09	ktce
REFINERY GAS	329.20	kt	1.6429	ktce/kt	540.83	ktce
LPG	3,845.30	kt	1.6143	ktce/kt	6,207.41	ktce
DIESEL OIL	469.20	kt	1.4786	ktce/kt	693.75	ktce
NATURAL GAS/LNG	2,986.31	Mm ³	1.1540	ktce/Mm ³	3,446.20	ktce
NATURAL GAS	2,986.31	Mm ³	1.1540	ktce/Mm ³	3,446.20	ktce
HEAT	563,390.00	TJ	0.0341	ktce/TJ	19,223.35	ktce
ELECTRICITY	43,044.00	GWh	0.1229	ktce/GWh	5,288.26	ktce
OTHERS	332.20	TJ	0.0341	ktce/TJ	11.33	ktce
TOTAL					63,904.19	ktce
1.3 NON-FERROUS METALS						
COAL	1,781.40	kt	0.7790	ktce/kt	1,387.10	ktce
HARD COAL	1,778.80	kt	0.7790	ktce/kt	1,385.69	ktce
STEAM COAL	1,778.80	kt	0.7790	ktce/kt	1,385.69	ktce
LIGNITE	2.60	kt	0.5430	ktce/kt	1.41	ktce
COKE	1,021.60	kt	0.9900	ktce/kt	1,011.38	ktce
BRIQUETTES	32.20	kt	0.6000	ktce/kt	19.32	ktce
CRUDE OIL AND NGL/CONDENSATE	1.80	kt	1.4357	ktce/kt	2.58	ktce
CRUDE OIL	1.80	kt	1.4357	ktce/kt	2.58	ktce
LPG	9.40	kt	1.6143	ktce/kt	15.17	ktce
DIESEL OIL	1,059.40	kt	1.4786	ktce/kt	1,566.40	ktce
NATURAL GAS/LNG	2,658.11	Mm ³	1.1540	ktce/Mm ³	3,067.46	ktce
NATURAL GAS	2,658.11	Mm ³	1.1540	ktce/Mm ³	3,067.46	ktce
HEAT	197,730.00	TJ	0.0341	ktce/TJ	6,746.72	ktce
ELECTRICITY	106,982.00	GWh	0.1229	ktce/GWh	13,143.50	ktce
OTHERS	261.30	TJ	0.0341	ktce/TJ	8.92	ktce
TOTAL					26,968.55	ktce
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	903.60	kt	0.7790	ktce/kt	684.62	ktce
HARD COAL	822.50	kt	0.7790	ktce/kt	640.73	ktce
STEAM COAL	822.50	kt	0.7790	ktce/kt	640.73	ktce
LIGNITE	81.10	kt	0.5412	ktce/kt	43.90	ktce
COKE	103.00	kt	0.9900	ktce/kt	101.97	ktce
CRUDE OIL AND NGL/CONDENSATE	0.70	kt	1.4357	ktce/kt	1.00	ktce
CRUDE OIL	0.70	kt	1.4357	ktce/kt	1.00	ktce
LPG	5.60	kt	1.6143	ktce/kt	9.04	ktce
DIESEL OIL	206.70	kt	1.4786	ktce/kt	305.62	ktce
NATURAL GAS/LNG	7,672.75	Mm ³	1.1540	ktce/Mm ³	8,854.35	ktce
NATURAL GAS	7,672.75	Mm ³	1.1540	ktce/Mm ³	8,854.35	ktce
HEAT	79,892.00	TJ	0.0341	ktce/TJ	2,725.98	ktce
ELECTRICITY	13,093.00	GWh	0.1229	ktce/GWh	1,608.57	ktce
OTHERS	95.60	TJ	0.0341	ktce/TJ	3.26	ktce
TOTAL					14,294.42	ktce
1.5 PAPER, PULP AND PRINTING						

Original Table (Disaggregated Final Energy Demand) of Russia in 2003 (Continued)

2003						
Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL						ktce
1.6 OTHER INDUSTRIES						
COAL	408.50	kt	0.7790	ktce/kt	341.40	ktce
HARD COAL	396.50	kt	0.7790	ktce/kt	308.87	ktce
STEAM COAL	396.50	kt	0.7790	ktce/kt	308.87	ktce
LIGNITE	12.00	kt	2.7105	ktce/kt	32.53	ktce
COKE	263.40	kt	0.9900	ktce/kt	260.77	ktce
BRIQUETTES	1.20	kt	0.6000	ktce/kt	0.72	ktce
CRUDE OIL AND NGL/CONDENSATE	18.10	kt	1.4357	ktce/kt	25.99	ktce
CRUDE OIL	18.10	kt	1.4357	ktce/kt	25.99	ktce
LPG	30.00	kt	1.6143	ktce/kt	48.43	ktce
DIESEL OIL	2,369.90	kt	1.4786	ktce/kt	3,504.07	ktce
NATURAL GAS/LNG	5,162.47	Mm ³	1.1540	ktce/Mm ³	5,957.49	ktce
NATURAL GAS	5,162.47	Mm ³	1.1540	ktce/Mm ³	5,957.49	ktce
HEAT	950,291.00	TJ	0.0341	ktce/TJ	32,424.74	ktce
ELECTRICITY	98,036.90	GWh	0.1229	ktce/GWh	12,044.53	ktce
OTHERS	2,329.50	TJ	0.0341	ktce/TJ	79.48	ktce
TOTAL					54,687.62	ktce
2 TRANSPORTATION SECTOR						
2.1 AIR						
DIESEL OIL	16.90	kt	1.4786	ktce/kt	24.99	ktce
TOTAL					24.99	ktce
2.2 ROAD						
COAL	72.30	kt	0.7790	ktce/kt	56.32	ktce
LPG	44.80	kt	1.6143	ktce/kt	72.32	ktce
MOGAS	25,661.90	kt	1.5286	ktce/kt	39,226.05	ktce
DIESEL OIL	9,836.00	kt	1.4786	ktce/kt	14,543.22	ktce
NATURAL GAS	38,561.84	Mm ³	1.1540	ktce/Mm ³	44,500.36	ktce
TOTAL					98,398.28	ktce
2.3 RAIL						
COAL	522.70	kt	0.7790	ktce/kt	407.18	ktce
DIESEL OIL	1,767.70	kt	1.4786	ktce/kt	2,613.67	ktce
ELECTRICITY	40,125.30	GWh	0.1229	ktce/GWh	4,929.68	ktce
TOTAL					7,950.53	ktce
2.4 INTERNAL NAVIGATION						
COAL	6.50	kt	0.7790	ktce/kt	5.06	ktce
DIESEL OIL	676.10	kt	1.4786	ktce/kt	999.66	ktce
TOTAL					1,004.73	ktce
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
OTHER COMMERCIAL	839.40	TJ	0.0341	ktce/TJ	28.64	ktce
ELECTRICITY	66,149.30	GWh	0.1229	ktce/GWh	8,126.91	ktce
HEAT	433,514.00	TJ	0.0341	ktce/TJ	14,791.87	ktce
TOTAL					22,947.42	ktce
3.2 RESIDENTIAL						
COAL	10,202.60	kt	0.7790	ktce/kt	7,947.83	ktce
COKE	5.00	kt	0.9900	ktce/kt	4.95	ktce
BRIQUETTES	11.30	kt	0.6000	ktce/kt	6.78	ktce
LPG	2,862.10	kt	1.6143	ktce/kt	4,620.25	ktce
DIESEL OIL	1,644.80	kt	1.4786	ktce/kt	2,431.95	ktce
NATURAL GAS	57,245.50	Mm ³	1.1540	ktce/Mm ³	66,061.31	ktce
OTHER COMMERCIAL	76,336.60	TJ	0.0341	ktce/TJ	2,604.67	ktce
ELECTRICITY	142,254.30	GWh	0.1229	ktce/GWh	17,476.96	ktce
HEAT	2,929,626.00	TJ	0.0341	ktce/TJ	99,961.35	ktce
TOTAL					201,116.04	ktce

3.17 Singapore

Energy Balance Table of Singapore in 2003

	1 Coal	2 Coal Products	3 Crude Oil	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	0	8	40,082	46,571	5,163	3,452	2,207	289	6,663
3 Export	0	-	-	-45,507	-6,937	-2,627	-6,538	-935	-14,994
4 International Marine Bunkers	-	-	-	-24,528	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	0	8	40,082	-23,464	-1,774	824	-4,331	-646	-8,330
7 Public Electricity	-	-	-	-2,803	-	-	-	-	-43
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-129	-	-129	-	-	-
10 Petroleum Refineries	-	-	-40,082	38,079	2,610	3,406	7,312	715	11,244
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-576	-	-	-	-	-
13 Discrepancy	0	-8	0	-2,462	0	0	0	0	-2,462
14 Total Final Energy Consumption	-	-	-	8,644	836	4,101	2,980	69	408
15 Industry Sector	-	-	-	4,170	-	4,101	-	69	-
16 Transport Sector	-	-	-	4,224	836	-	2,980	0	408
17 Other Sector	-	-	-	-	-	-	-	-	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	-	-	-	-	-	-	-	-	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	250	-	-	-	-	-

Note: The Transformation sector and the final energy consumption sector were estimated by Coording Agency.

Energy Balance Table of Singapore in 2002

	1 Coal	2 Coal Products	3 Crude Oil	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	0	6	41,365	44,029	4,790	2,539	2,709	483	7,478
3 Export	0	0	-	-43,091	-7,063	-2,168	-5,695	-850	-15,298
4 International Marine Bunkers	-	-	-	-22,769	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	0	6	41,365	-21,831	-2,273	370	-2,986	-367	-7,820
7 Public Electricity	-	-	-	-4,036	-	-	-	-	-52
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	-130	-	-130	-	-	-
10 Petroleum Refineries	-	-	-41,365	37,933	3,101	3,762	5,923	435	11,152
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-570	-	-	-	-	-
13 Discrepancy	0	-6	0	-2,876	0	0	0	0	-2,876
14 Total Final Energy Consumption	-	-	-	8,489	827	4,002	2,937	68	405
15 Industry Sector	-	-	-	4,071	-	4,002	-	68	-
16 Transport Sector	-	-	-	4,169	827	-	2,937	0	405
17 Other Sector	-	-	-	-	-	-	-	-	-
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	-	-	-	-	-	-	-	-	-
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	250	-	-	-	-	-

Note: The Transformation sector and the final energy consumption sector were estimated by Coording Agency.

Energy Balance Table of Singapore in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	-	-	-	123	-	-	123
28,689	26	-	83	3,285	-	-	-	-	-	-	-	89,947
-12,096	-856	-	-525	-	-	-	-	-	-	-	-	-45,508
-24,528	-	-	-	-	-	-	-	-	-	-	-	-24,528
-	-	-	0	-	-	-	-	-	-	-	-	0
-7,935	-830	-	-442	3,285	-	-	-	-	123	-	-	20,035
-2,760	-	-	-	-3,285	-	-	-	-	-123	3,038	-	-3,173
-	-	-	-	-	-	-	-	-	0	0	-	-
-	-	-	-	-	105	-	-	-	-	-	-	-24
10,695	830	576	691	-	-	-	-	-	-	-	-	-2,003
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-576	-	-	-	-	-	-	-	-288	-	-864
0	0	0	0	0	1	-	-	-	0	0	-	-2,470
-	-	-	250	-	106	-	-	-	-	2,751	-	11,501
-	-	-	-	-	60	-	-	-	-	1,179	-	5,409
-	-	-	-	-	-	-	-	-	-	27	-	4,251
-	-	-	-	-	46	-	-	-	-	1,545	-	1,591
-	-	-	-	-	-	-	-	-	-	3	-	3
-	-	-	-	-	46	-	-	-	-	1,542	-	1,588
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	250	-	-	-	-	-	-	-	-	250

Energy Balance Table of Singapore in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	-	-	-	-	-	147	-	-	147
25,722	3	-	305	2,326	-	-	-	-	-	-	-	87,727
-9,598	-694	-	-1,725	0	-	-	-	-	-	-	-	-43,091
-22,769	-	-	-	-	-	-	-	-	-	-	-	-22,769
-	-	-	0	-	-	-	-	-	-	-	-	0
-6,646	-690	-	-1,420	2,326	-	-	-	-	147	-	-	22,014
-3,984	-	-	-	-2,306	-	-	-	-	-147	2,981	-	-3,508
-	-	-	-	-	-	-	-	-	0	0	-	-
-	-	-	-	-	106	-	-	-	-	-	-	-24
10,630	690	570	1,670	-	-	-	-	-	-	-	-	-3,432
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-570	-	-	-	-	-	-	-	-308	-	-878
0	0	0	0	-20	1	-	-	-	0	0	-	-2,902
-	-	-	250	-	107	-	-	-	-	2,674	-	11,270
-	-	-	-	-	63	-	-	-	-	1,095	-	5,229
-	-	-	-	-	-	-	-	-	-	27	-	4,196
-	-	-	-	-	44	-	-	-	-	1,552	-	1,596
-	-	-	-	-	-	-	-	-	-	3	-	3
-	-	-	-	-	44	-	-	-	-	1,548	-	1,592
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	250	-	-	-	-	-	-	-	-	250

Major Energy Indicators of Singapore

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	1,976	7,716	8,774	5,503	8,670	11,188	7,216	9,896	11,865
Indigenous Production	2	3	3	9	16	17	17	19	19
Import	29,359	40,037	38,352	42,035	44,786	53,216	52,996	59,503	63,860
Export	-22,640	-27,424	-24,836	-28,460	-28,023	-32,450	-33,324	-36,556	-37,518
Final Energy Consumption	2,070	3,011	3,356	3,569	4,084	4,402	4,629	5,322	5,387
Industry	343	807	1,025	1,078	1,423	1,511	1,623	1,907	1,835
Transport	1,346	1,727	1,715	1,878	1,987	2,115	2,190	2,368	2,485
Residential & Commercial	294	401	434	468	514	647	681	763	798
Agriculture	-	-	-	-	-	-	-	-	2
Coal, Coal Products									
Primary Energy Supply	-	-	-	-	-	-	-	-	-116
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	17
Export	-	-	-	-	-	-	-	-	-132
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	24,182	30,785	28,389	30,880	29,965	31,824	35,559	41,286	45,827
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	24,255	31,105	28,472	30,967	30,060	33,251	35,559	41,286	45,827
Export	-73	-320	-82	-87	-95	-1,428	-0	-0	-0
Transformation Sector	-30,180	-37,267	-34,886	-38,534	-37,009	-37,022	-40,260	-43,571	-47,982
Petroleum Refineries	-30,180	-37,267	-34,886	-38,534	-37,009	-37,022	-40,260	-43,571	-47,982
Petroleum Products									
Primary Energy Supply	-22,200	-23,065	-19,615	-25,387	-21,312	-20,652	-28,360	-31,409	-33,866
Import	5,104	8,932	9,880	11,068	14,727	19,964	17,437	18,217	18,016
Export	-22,559	-27,098	-24,750	-28,373	-27,929	-31,022	-33,324	-36,555	-37,385
Transformation Sector	25,754	31,646	29,580	32,598	30,925	30,243	32,925	35,498	37,251
Power Generation	-1,575	-2,112	-2,021	-2,311	-2,597	-2,827	-3,060	-3,388	-3,821
Petroleum Refineries	27,381	33,811	31,651	34,960	33,577	33,589	36,527	39,530	41,777
Final Energy Consumption	1,506	2,256	2,559	2,715	3,128	3,347	3,489	4,046	4,022
Industry	73	452	663	694	985	1,015	1,076	1,296	1,186
Transport	1,346	1,727	1,715	1,878	1,984	2,106	2,179	2,352	2,469
Residential & Commercial	-	-	-	-	-	96	100	115	101
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	43	42	38	38	42	47	49	55	67
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	38	40	38	38	42	47	49	55	67
Industry	16	17	16	18	22	25	27	32	40
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	22	23	21	21	20	21	22	23	27
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	599	813	853	909	1,016	1,119	1,207	1,343	1,427
Thermal	599	813	853	909	1,016	1,119	1,207	1,343	1,427
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	525	716	758	815	913	1,009	1,091	1,221	1,298
Industry	253	338	346	367	417	471	521	580	609
Transport	-	-	-	0	3	9	11	16	16
Residential & Commercial	272	378	413	448	494	529	559	625	671
Agriculture	-	-	-	-	-	-	-	-	2

Note: Data for the transformation sector and the final energy consumption sector were estimation by C.A.

Major Energy Indicators of Singapore (Continued)

												ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
14,934	16,447	11,898	15,203	20,519	23,296	20,160	20,722	20,421	21,797	22,014	20,035	
34	54	53	50	55	61	64	66	101	104	147	123	
70,000	76,745	78,056	79,202	86,409	88,170	86,083	84,939	79,752	84,928	87,727	89,947	
-38,471	-43,724	-48,226	-47,342	-49,089	-46,673	-46,752	-45,179	-39,565	-41,279	-43,091	-45,508	
5,507	6,299	6,967	7,477	8,037	8,733	9,251	9,321	9,367	9,750	11,270	11,501	
1,776	1,961	2,120	2,589	2,907	3,563	4,115	3,922	3,514	3,914	5,229	5,409	
2,653	3,188	3,715	3,680	3,815	3,732	3,585	3,796	4,159	4,079	4,196	4,251	
849	917	895	980	1,063	1,186	1,298	1,350	1,441	1,504	1,592	1,588	
2	2	2	2	2	2	3	3	3	3	3	3	
-55	-40	3	0	-2	1	-0	0	0	0	7	8	
-	-	-	-	-	-	-	-	-	-	-	-	
21	27	27	17	8	6	3	1	0	1	7	9	
-76	-67	-24	-16	-11	-6	-3	-0	-0	-0	-0	-0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
47,303	53,540	51,769	51,984	56,149	56,300	52,651	45,046	41,585	41,508	41,365	40,082	
-	-	-	-	-	-	-	-	-	-	-	-	
47,303	53,540	51,830	52,046	56,149	56,301	52,651	45,046	41,585	41,508	41,365	40,082	
-	-	-61	-62	-	-2	-	-	-	-	-	-	
-47,303	-53,540	-51,769	-51,984	-56,149	-56,300	-52,651	-45,046	-41,585	-41,508	-41,365	-40,082	
-47,303	-53,540	-51,769	-51,984	-56,149	-56,300	-52,651	-45,046	-41,585	-41,508	-41,365	-40,082	
-32,702	-38,055	-41,055	-38,007	-36,732	-34,100	-33,686	-25,313	-22,207	-21,326	-21,831	-23,464	
22,322	22,231	25,070	25,964	29,204	30,828	32,297	38,970	37,225	41,909	44,029	46,571	
-38,395	-43,657	-48,141	-47,264	-49,079	-46,665	-46,749	-45,179	-39,565	-41,278	-43,091	-45,507	
38,887	42,864	43,818	42,428	45,338	43,926	43,325	33,690	32,027	33,026	33,197	34,570	
-3,450	-3,041	-3,170	-3,460	-3,952	-4,326	-4,535	-5,143	-5,563	-5,097	-4,036	-2,803	
43,085	46,736	47,868	46,710	50,176	49,150	48,712	39,582	38,305	38,827	37,933	38,079	
4,071	4,742	5,260	5,653	6,064	6,521	6,910	6,879	6,757	7,098	8,489	8,644	
1,108	1,242	1,335	1,763	2,019	2,561	3,097	2,857	2,372	2,795	4,071	4,170	
2,637	3,172	3,698	3,663	3,795	3,711	3,563	3,773	4,135	4,053	4,169	4,224	
99	102	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
353	948	1,129	1,176	1,049	1,034	1,132	922	942	1,511	2,326	3,285	
-	-	-	-	-	-	-	-	-	-	-	-	
353	948	1,129	1,176	1,049	1,034	1,132	922	942	1,511	2,326	3,285	
-	-	-	-	-	-	-	-	-	-0	-0	-	
-289	-870	-1,047	-1,092	-960	-944	-1,035	-820	-836	-1,403	-2,200	-3,180	
-353	-948	-1,129	-1,176	-1,049	-1,034	-1,132	-922	-942	-1,511	-2,306	-3,285	
65	78	81	84	89	94	98	101	105	106	107	106	
40	49	52	53	57	61	62	63	66	66	63	60	
-	-	-	-	-	-	-	-	-	-	-	-	
25	29	30	30	32	33	36	38	39	40	44	46	
-	-	-	-	-	-	-	-	-	-	-	-	
1,520	1,646	1,793	1,913	2,073	2,313	2,432	2,539	2,723	2,846	2,981	3,038	
1,520	1,646	1,793	1,913	2,073	2,313	2,432	2,539	2,723	2,846	2,981	3,038	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
1,372	1,479	1,626	1,741	1,884	2,118	2,243	2,340	2,505	2,545	2,674	2,751	
628	670	733	772	831	941	956	1,002	1,076	1,053	1,095	1,179	
16	16	17	17	20	21	22	23	25	26	27	27	
726	786	866	949	1,031	1,153	1,262	1,312	1,401	1,464	1,548	1,542	
2	2	2	2	2	2	3	3	3	3	3	3	

Major Economic Indicators of Singapore

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	2.41	2.73	2.74	2.73	2.78	2.85	2.93	3.05
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	26.78	37.01	36.48	37.26	40.89	45.51	50.02	54.54
Real Term (Billions of 1995 Price and 1995 PPP)	20.15	27.84	27.44	28.03	30.76	34.24	37.63	41.03
Nominal (Billions of Current USD)	11.72	18.77	17.69	17.96	20.54	25.33	30.12	36.90
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	11,094	13,547	13,333	13,633	14,733	15,991	17,066	17,899
Real Term (1995 Price and 1995 PPP)	8,346	10,191	10,030	10,256	11,083	12,029	12,839	13,465
Nominal (Current USD)	4,854	6,872	6,466	6,571	7,404	8,901	10,275	12,111
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	25.09	40.05	38.92	39.10	43.27	50.98	58.73	66.89
Household Final Consumption Expenditure, etc.	12.91	17.57	17.55	18.40	20.70	24.39	27.66	30.85
General Government Final Consumption Expenditure	2.45	4.33	5.55	5.27	5.31	5.34	6.01	6.78
Gross Fixed Capital Formation	10.20	19.12	16.42	14.13	14.41	15.67	18.91	21.58
Stock Change	1.42	0.30	0.13	0.58	1.89	1.66	1.46	2.77
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.
Real GDP & its Components (Billions of 1995 SGD) *1								
Gross Domestic Product	37.96	52.46	51.70	52.81	57.95	64.50	70.90	77.30
Household Final Consumption Expenditure, etc.	19.67	23.52	23.31	24.35	26.70	30.29	32.87	35.36
General Government Final Consumption Expenditure	3.86	5.30	6.60	6.67	6.73	6.33	6.68	7.42
Gross Fixed Capital Formation	13.63	22.89	20.14	17.62	17.51	18.18	21.05	23.21
Stock Change	2.49	0.71	0.49	1.24	3.02	1.67	1.31	3.40
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	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.3
Industry	34.0	35.1	32.1	30.8	30.8	31.2	30.7	30.8
Services, etc.	57.9	56.3	59.4	61.0	61.1	61.0	61.4	61.3
Manufacturing Production Index (2000=100) *2	24.4	28.2	26.1	28.4	33.3	39.4	43.4	47.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	19,376	24,070	22,812	22,495	28,687	39,306	44,665	52,730
Imports, c.i.f.	24,007	28,667	26,285	25,511	32,559	43,864	49,667	60,774
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-2.971	-2.643	-1.518	-0.940	-1.143	0.028	-0.313	-1.633
Current Account	-1.563	-0.385	-0.004	0.319	-0.109	1.937	2.964	3.122
Overall Balance	0.663	1.524	1.337	0.538	1.095	1.659	2.738	5.431
Foreign Exchange Rate (SGD/USD) *1	2.1412	2.1331	2.2001	2.1774	2.1060	2.0124	1.9503	1.8125
Purchasing Power Parity (SGD/International Dollar) *1	1.9870	1.9380	1.8864	1.8025	1.7294	1.7937	1.8311	1.8431
Price Indices								
GDP Deflator (1995=100) *3	66.1	76.3	75.3	74.0	74.7	79.0	82.8	86.5
Wholesale Price Index (2000=100) *2	121.9	116.1	113.5	96.4	103.6	101.7	104.3	106.1
Consumer Price Index (2000=100) *2	67.4	78.7	79.1	78.0	78.4	79.6	81.5	84.3
Growth Rate (%) *3								
Real GDP	9.70	8.33	-1.44	2.14	9.73	11.31	9.91	9.03
Population	1.26	1.90	0.15	-0.11	1.54	2.56	2.99	3.96
Price								
Wholesale Price Index	19.6	-0.6	-2.2	-15.1	7.5	-1.8	2.6	1.7
Consumer Price Index	8.5	2.6	0.5	-1.4	0.5	1.5	2.3	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"
: SGD shows Singapore Dollar, USD shows United States Dollar
: PPP shows Purchasing Power Parity

Major Economic Indicators of Singapore (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
3.14	3.23	3.32	3.42	3.53	3.67	3.79	3.92	3.95	4.02	4.13	4.16	4.25
58.22	62.12	69.73	77.69	83.93	90.77	98.49	97.65	103.92	113.69	110.99	114.65	115.90
43.80	46.73	52.46	58.44	63.14	68.28	74.09	73.46	78.17	85.53	83.50	86.24	752.74
43.19	49.86	58.35	70.61	83.93	92.22	95.39	81.91	81.38	91.48	84.87	88.27	91.34
18,566	19,220	21,036	22,709	23,804	24,733	25,960	24,890	26,295	28,296	26,869	27,532	27,270
13,967	14,459	15,825	17,083	17,907	18,606	19,529	18,724	19,781	21,286	20,212	20,712	20,514
13,773	15,428	17,603	20,640	23,804	25,128	25,143	20,879	20,592	22,767	20,545	21,200	21,492
74.61	81.23	94.29	107.85	118.96	130.04	141.64	137.09	137.94	157.70	152.07	158.06	159.14
33.54	36.42	42.23	47.18	49.13	53.44	56.08	52.60	56.83	65.12	67.47	69.21	68.65
7.35	7.46	8.72	9.01	10.11	12.22	13.18	13.88	14.01	17.41	18.68	19.05	19.00
25.09	28.81	32.75	36.20	39.73	49.54	54.82	51.54	47.09	47.54	45.59	40.71	39.57
0.66	0.27	2.50	-0.50	0.83	-2.86	0.71	-7.22	-2.35	3.61	-7.29	-7.26	-18.33
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
82.53	88.05	98.84	110.11	118.96	128.65	139.60	138.40	147.29	161.14	157.32	162.49	164.27
37.48	39.66	44.39	47.70	49.13	53.11	54.77	52.47	56.76	64.74	66.24	69.52	69.17
7.99	8.03	9.21	9.05	10.11	12.06	13.03	14.11	15.06	17.72	19.18	19.10	19.07
26.32	29.41	32.44	35.57	39.78	49.72	54.74	51.46	48.91	52.77	49.74	45.53	43.78
0.74	0.25	2.66	-0.41	0.83	-1.74	-0.09	-7.83	-2.75	1.05	-8.92	-7.56	-17.63
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
31.3	31.1	30.2	30.7	31.2	33.0	32.7	33.1	33.2	33.7	31.3	31.5	31.2
61.2	61.3	62.5	55.9	61.5	60.0	60.3	60.5	60.3	59.9	62.3	62.3	62.3
50.2	51.5	56.7	64.1	70.7	73.0	76.4	76.1	86.7	100.0	88.4	95.9	98.6
58.966	63.472	74.012	96.825	118.268	125.014	124.985	109.895	114.680	137.804	121.751	125.177	144.127
66.095	72.171	85.234	102.670	124.507	131.338	132.437	101.732	111.060	134.545	116.000	116.441	127.934
-0.110	-1.821	-2.724	1.354	6.452	7.186	6.509	13.411	12.442	12.723	15.709	17.581	28.130
4.880	5.915	4.211	11.400	14.708	13.853	14.913	18.270	14.773	11.936	14.383	15.727	26.951
4.197	6.100	7.578	4.736	8.641	7.399	8.114	2.989	4.188	6.751	-0.867	1.327	6.675
1.7276	1.6290	1.6158	1.5274	1.4174	1.4100	1.4848	1.6736	1.6950	1.7240	1.7917	1.7906	1.7422
1.8431	1.8627	1.8323	1.8770	1.8841	1.8396	1.8724	1.7878	1.6741	1.6706	1.6333	1.5808	1.5295
90.4	92.3	95.4	97.9	100.0	101.1	101.5	99.1	93.7	97.9	96.7	97.3	96.9
101.8	97.3	93.1	92.7	92.7	92.8	91.8	89.0	90.8	100.0	98.4	97.0	98.9
87.2	89.2	91.2	94.0	95.6	97.0	98.9	98.6	98.7	100.0	101.0	100.6	101.1
6.76	6.69	12.26	11.40	8.04	8.15	8.51	-0.86	6.42	9.41	-2.37	3.29	1.09
2.92	3.06	2.57	3.20	3.07	4.08	3.38	3.40	0.74	1.67	2.81	0.80	2.07
-4.1	-4.4	-4.4	-0.4	0.0	0.1	-1.2	-3.0	2.1	10.1	-1.6	-1.5	2.0
3.4	2.3	2.3	3.1	1.7	1.4	2.0	-0.3	0.0	1.4	1.0	-0.4	0.5

Original Table (Energy Demand and Supply) of Singapore in 2003

Year:2003

Singapore	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
TOTAL PRODUCTION						ktoe
OPENING STOCKS						
TOTAL OPENING STOCKS						ktoe
CLOSING STOCKS						
TOTAL CLOSING STOCKS						ktoe
STOCK CHANGE						
TOTAL STOCK CHANGE						ktoe
IMPORTS						
COAL	0.37	kt	0.6438	ktoe/kt	0.24	ktoe
HARD COAL	0.02	kt	0.6438	ktoe/kt	0.01	ktoe
ANTHRACITE	0.30	kt	0.6438	ktoe/kt	0.20	ktoe
LIGNITE	0.04	kt	0.6438	ktoe/kt	0.03	ktoe
COKE	12.97	kt	0.6438	ktoe/kt	8.35	ktoe
CRUDE OIL AND NGL/CONDENSATE					27,371.01	ktoe
CRUDE OIL	25,559.33	kt	1.0709	ktoe/kt	27,371.01	ktoe
LPG	21.53	kt	1.1923	ktoe/kt	25.67	ktoe
NAPHTHA	2,894.96	kt	1.1923	ktoe/kt	3,451.56	ktoe
MOGAS	4,620.51	kt	1.1174	ktoe/kt	5,162.86	ktoe
JET FUEL	1,776.31	kt	1.2425	ktoe/kt	2,207.14	ktoe
KEROSENE	259.23	kt	1.1140	ktoe/kt	288.78	ktoe
DIESEL OIL	6,081.13	kt	1.0957	ktoe/kt	6,663.20	ktoe
FUEL OIL	29,157.96	kt	0.9839	ktoe/kt	28,688.64	ktoe
OTHER PETROLEUM PRODUCTS	80.61	kt	1.0320	ktoe/kt	83.19	ktoe
NATURAL GAS AND LNG					0.20	ktoe
NATURAL GAS	0.11	kt	1.3017	ktoe/kt	0.14	ktoe
LNG	0.05	kt	1.3017	ktoe/kt	0.06	ktoe
TOTAL IMPORTS					73,950.84	ktoe
EXPORTS						
COAL				ktoe/kt	0.13	ktoe
HARD COAL	0.21	kt	0.6438	ktoe/kt	0.13	ktoe
LPG	717.66	kt	1.1923	ktoe/kt	855.64	ktoe
NAPHTHA	2,203.73	kt	1.1923	ktoe/kt	2,627.44	ktoe
MOGAS	6,208.41	kt	1.1174	ktoe/kt	6,937.15	ktoe
JET FUEL	5,050.10	kt	1.2425	ktoe/kt	6,274.97	ktoe
KEROSENE	838.98	kt	1.1140	ktoe/kt	934.63	ktoe
DIESEL OIL	12,257.12	kt	1.0957	ktoe/kt	13,430.35	ktoe
FUEL OIL	10,355.16	kt	0.9839	ktoe/kt	10,188.49	ktoe
OTHER PETROLEUM PRODUCTS	508.55	kt	1.0320	ktoe/kt	524.82	ktoe
TOTAL EXPORTS					41,773.62	ktoe
INTERNATIONAL MARINE BUNKERS	19,739.98	kt	1.2425	ktoe/kt	24,527.80	ktoe
TOTAL PRIMARY ENERGY SUPPLY					7,649.42	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
REFINING						
GAS RECOVERING						
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	34,299.68	GWh	0.0860	ktoe/GWh	2,949.77	ktoe
OIL	12,184.84	GWh	0.0860	ktoe/GWh	1,047.90	ktoe
GAS	22,114.84	GWh	0.0860	ktoe/GWh	1,901.88	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
TOTAL LOSSES AND OWN USE						ktoe
FINAL ENERGY CONSUMPTION TOTAL						
TOTAL						ktoe
AGRICULTURE						
TOTAL						ktoe
RESIDENTIAL COMMERCIAL						
TOTAL						ktoe
OTHERS						
TOTAL						ktoe
INDUSTRY						
TOTAL						ktoe
TRANSPORT						
TOTAL						ktoe
NON-ENERGY						
TOTAL NON-ENERGY USE						ktoe

Original Table (Energy Demand and Supply) of Singapore in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER	7,368	
COAL		
OIL	4,700	
GAS	2,668	
HYDRO POWER		
NUCLEAR POWER		
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (DIESEL)	460	
COGENERATION		
COAL		
OIL		
GAS	961	
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Quarterly) of Singapore in 2004

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2004	JAN.	-	1	-	-
	FEB.	-	1	-	-
	MAR.	-	2	-	-
	1st quarter	-	4	-	-
	APR.	-	3	-	-
	MAY.	-	2	-	-
	JUN.	-	1	0	-
	2nd quarter	-	6	0	-
	JUL.	-	1	0	-
	AUG.	-	0	0	-
	SEP.	-	1	0	-
	3rd quarter	-	2	0	-
	OCT.	-	0	0	-
	NOV.	-	3	0	-
	DEC.	-	1	0	-
	4th quarter	-	5	0	-
		-	17	0	-

Oil		Unit: 1000ton						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.		2,314		-	4,125	4,872	-
	FEB.		2,513		-	4,017	5,156	-
	MAR.		3,185		-	5,684	5,809	-
	1st quarter		8,012		-	13,826	15,837	-
	APR.		2,388		-	4,909	6,296	-
	MAY.		3,384		-	4,291	3,711	-
	JUN.		2,846		-	3,536	3,932	-
	2nd quarter		8,618		-	12,735	13,939	-
	JUL.		2,584		-	3,713	5,939	-
	AUG.		2,954		-	3,652	5,484	-
	SEP.		3,568		-	3,520	5,355	-
	3rd quarter		9,106		-	10,885	16,778	-
	OCT.		5,496		-	4,125	5,562	-
	NOV.		4,648		-	3,576	5,557	-
	DEC.		3,106		-	4,017	6,493	-
	4th quarter		13,250		-	11,718	17,612	-
		-	38,985	-	-	49,164	64,166	-

Original Table (Quarterly) of Singapore in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000CM
		Production	Imports	Exports	Stock Changes	
2004	JAN.	-	-	-	-	-
	FEB.	-	-	-	-	-
	MAR.	-	0	-	-	-
	1st quarter	-	0	-	-	-
	APR.	-	-	-	-	-
	MAY.	-	0	-	-	-
	JUN.	-	2	-	-	-
	2nd quarter	-	2	-	-	-
	JUL.	-	2	0	-	-
	AUG.	-	0	0	-	-
	SEP.	-	0	0	-	-
	3rd quarter	-	2	0	-	-
	OCT.	-	0	0	-	-
	NOV.	-	0	0	-	-
	DEC.	-	0	0	-	-
	4th quarter	-	0	0	-	-
		-	3	0	-	-

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	2,896	2,809	-	-	87	-	-
	FEB.	2,832	2,753	-	-	79	-	-
	MAR.	3,101	3,021	-	-	80	-	-
	1st quarter	8,828	8,583	-	-	246	-	-
	APR.	3,102	3,025	-	-	77	-	-
	MAY.	3,206	3,125	-	-	81	-	-
	JUN.	3,109	3,036	-	-	73	-	-
	2nd quarter	9,416	9,186	-	-	231	-	-
	JUL.	3,108	3,026	-	-	82	-	-
	AUG.	3,150	3,065	-	-	85	-	-
	SEP.	3,087	3,008	-	-	78	-	-
	3rd quarter	9,345	9,099	-	-	245	-	-
	OCT.	3,163	3,086	-	-	77	-	-
	NOV.	3,000	2,920	-	-	81	-	-
	DEC.	3,056	2,974	-	-	82	-	-
	4th quarter	9,220	8,979	-	-	241	-	-
		36,809	35,847	-	-	962	-	-

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.18 Chinese Taipei

Energy Balance Table of Chinese Taipei in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	39	-	-	-	-	-	-
2 Import	33,625	121	44,236	8,281	167	5,880	-	-	21
3 Export	-	-	-	-9,761	-2,182	-38	-446	-271	-4,496
4 International Marine Bunkers	-	-	-	-2,825	-	-	-	-	-171
5 Stock Changes	-45	-26	-209	1,201	277	266	238	13	169
6 Total Primary Energy Supply	33,580	95	44,066	-3,104	-1,737	6,108	-208	-258	-4,476
7 Public Electricity	-18,643	-	-	-2,916	-	-	-	-	-111
8 Autoproducers of Electricity	-5,730	-425	-	-905	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-45,767	46,697	9,242	5,055	2,263	318	9,800
11 Coal Transformation	-3,758	4,697	-	-	-	-	-	-	-
12 Loss & Own Use	-	0	-	-2,038	-10	-	-	0	-79
13 Discrepancy	-584	0	1,702	-1,970	-12	0	-85	-39	-347
14 Total Final Energy Consumption	4,865	4,368	-	35,764	7,483	11,163	1,970	20	4,787
15 Industry Sector	4,563	4,368	-	17,657	7	11,163	-	8	137
16 Transport Sector	-	-	-	12,808	7,414	-	1,810	0	3,368
17 Other Sector	-	-	-	3,785	63	-	161	13	1,283
18 Agriculture	-	-	-	898	0	-	-	-	874
19 Residential & Commercial	-	-	-	2,886	63	-	161	13	408
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	301	-	-	1,514	-	-	-	-	-

Energy Balance Table of Chinese Taipei in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	-	-	44	-	-	-	-	-	-
2 Import	31,916	127	39,039	8,519	248	5,023	-	-	28
3 Export	-	-	-	-6,207	-947	-18	-733	-158	-2,587
4 International Marine Bunkers	-	-	-	-2,300	-	-	-	-	-167
5 Stock Changes	-674	-102	72	970	162	372	259	63	-155
6 Total Primary Energy Supply	31,241	25	39,154	981	-536	5,377	-474	-95	-2,881
7 Public Electricity	-17,204	-	-	-3,286	-	-	-	-	-135
8 Autoproducers of Electricity	-4,841	-435	-	-955	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-39,154	41,437	7,748	6,500	2,550	115	8,001
11 Coal Transformation	-3,798	4,732	-	-	-	-	-	-	-
12 Loss & Own Use	-	-2	-	-1,859	-8	-	-	0	-82
13 Discrepancy	-540	0	0	177	0	0	0	0	0
14 Total Final Energy Consumption	4,860	4,320	-	36,496	7,204	11,877	2,077	20	4,903
15 Industry Sector	4,762	4,320	-	18,765	5	11,877	-	8	153
16 Transport Sector	-	-	-	12,790	7,152	-	1,906	0	3,527
17 Other Sector	-	-	-	3,130	47	-	171	12	1,222
18 Agriculture	-	-	-	785	0	-	-	-	760
19 Residential & Commercial	-	-	-	2,345	47	-	171	12	462
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	92	-	-	1,811	-	-	-	-	-

Energy Balance Table of Chinese Taipei in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	666	-	593	10,135	-	-	-	-	11,432
342	897	-	973	6,505	-	-	-	-	-	-	-	92,768
-723	-404	-	-1,201	-	-	-	-	-	-	-	-	-9,761
-2,651	-	-	-3	-	-	-	-	-	-	-	-	-2,825
176	-51	-	112	43	-	-	-	-	-	-	-	964
-2,856	442	-	-119	7,214	-	593	10,135	-	-	-	-	92,579
-2,804	-	-	-	-4,833	-	-593	-10,135	-	-	14,711	-	-22,408
-871	-	-34	-	-231	-	-	-	-	-	3,267	-	-4,024
-	-	-	-	-1,472	1,407	-	-	-	-	-	-	-65
13,209	1,536	1,209	4,065	-3	-	-	-	-	-	-	-	927
-	-	-	-	-	-	-	-	-	-	-	-	939
-743	-31	-1,175	-	-	-395	-	-	-	-	-2,351	-	-4,784
-943	-43	0	-501	-675	675	-	-	-	-	0	-	-852
4,991	1,904	-	3,445	-	1,687	-	-	-	-	15,628	-	62,312
3,806	607	-	1,931	-	802	-	-	-	-	8,502	-	35,892
200	17	-	-	-	-	-	-	-	-	106	-	12,914
986	1,280	-	-	-	885	-	-	-	-	7,020	-	11,690
24	0	-	-	-	-	-	-	-	-	208	-	1,106
962	1,280	-	-	-	885	-	-	-	-	6,812	-	10,584
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	1,514	-	-	-	-	-	-	-	-	1,815

Energy Balance Table of Chinese Taipei in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	710	-	547	10,307	-	-	-	-	11,608
1,277	974	-	969	6,238	-	-	-	-	-	-	-	85,838
-126	-409	-	-1,230	-	-	-	-	-	-	-	-	-6,207
-2,131	-	-	-2	-	-	-	-	-	-	-	-	-2,300
414	18	-	-162	70	-	-	-	-	-	-	-	335
-566	583	-	-426	7,018	-	547	10,307	-	-	-	-	89,273
-3,151	-	-	-	-4,628	-	-547	-10,307	-	-	14,118	-	-21,855
-926	-	-29	-	-153	-	-	-	-	-	2,981	-	-3,403
-	-	-	-	-2,226	2,190	-	-	-	-	-	-	-36
10,560	1,305	1,113	3,544	-	-	-	-	-	-	-	-	2,283
-	-	-	-	-	-	-	-	-	-	-	-	934
-673	-12	-1,084	-	-	-493	-	-	-	-	-2,324	-	-4,678
0	1	0	177	-10	10	-	-	-	-	10	-	-353
5,244	1,876	-	3,295	-	1,707	-	-	-	-	14,784	-	62,167
4,721	518	-	1,483	-	885	-	-	-	-	7,908	-	36,640
189	15	-	-	-	-	-	-	-	-	103	-	12,892
333	1,343	-	-	-	821	-	-	-	-	6,774	-	10,726
25	0	-	-	-	-	-	-	-	-	200	-	985
309	1,343	-	-	-	821	-	-	-	-	6,574	-	9,740
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	1,811	-	-	-	-	-	-	-	-	1,903

Major Energy Indicators of Chinese Taipei

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	25,092	31,201	32,573	34,900	37,525	40,934	43,581	45,989	49,770
Indigenous Production	5,654	9,275	10,340	9,733	11,235	10,475	9,646	10,748	10,792
Import	20,642	23,898	23,922	26,200	28,621	34,043	35,874	39,723	39,608
Export	-297	-1,305	-1,562	-909	-898	-678	-1,094	-335	-408
Final Energy Consumption	16,997	19,760	21,305	23,603	25,688	28,323	28,998	29,814	31,045
Industry	9,922	11,031	12,180	13,848	14,953	16,464	15,808	15,667	16,365
Transport	3,320	4,112	4,287	4,656	5,245	5,925	6,627	7,248	7,650
Residential & Commercial	2,567	3,320	3,478	3,742	4,036	4,392	4,776	4,992	5,374
Agriculture	764	879	896	879	957	980	960	1,033	971
Coal, Coal Products									
Primary Energy Supply	1,571	6,346	6,734	8,274	9,013	10,379	10,960	10,562	11,519
Indigenous Production	1,516	1,184	1,094	1,016	883	722	462	278	237
Import	37	4,684	6,251	6,615	8,666	10,795	10,390	11,389	11,363
Export	-5	-8	-5	-8	-8	-1	-2	-0	-
Transformation Sector	-803	-2,964	-2,993	-4,218	-4,789	-4,747	-5,154	-4,655	-5,205
Power Generation	-1,489	-3,049	-3,308	-4,561	-5,140	-5,237	-5,610	-5,145	-5,750
Final Energy Consumption	1,799	3,365	3,724	4,033	4,210	5,622	5,804	5,903	6,313
Industry	1,712	3,269	3,659	3,984	4,170	5,603	5,794	5,897	6,306
Transport	3	0	0	0	-	-	-	-	-
Residential & Commercial	75	90	60	44	38	19	10	6	7
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	17,839	17,265	17,107	15,890	17,061	18,064	21,002	20,512	22,438
Indigenous Production	181	116	101	90	127	120	116	156	94
Import	17,605	17,460	16,106	16,108	17,299	18,241	20,631	21,105	20,805
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-17,839	-17,265	-17,107	-15,890	-17,061	-18,064	-21,002	-20,512	-22,438
Petroleum Refineries	-17,839	-17,265	-17,107	-15,890	-17,061	-18,064	-21,002	-20,512	-22,438
Petroleum Products									
Primary Energy Supply	1,725	-384	-413	2,108	1,226	2,858	2,545	3,918	3,645
Import	3,001	1,754	1,565	3,477	2,655	5,007	4,854	6,467	5,595
Export	-292	-1,297	-1,557	-900	-890	-676	-1,092	-335	-408
Transformation Sector	8,944	11,894	13,047	12,099	14,445	13,408	13,827	12,706	12,993
Power Generation	-5,217	-2,073	-1,125	-1,605	-1,367	-3,405	-4,773	-4,825	-5,604
Petroleum Refineries	15,878	15,917	16,143	15,726	17,742	18,627	20,392	19,184	19,823
Final Energy Consumption	10,688	11,525	12,640	14,210	15,631	16,210	16,355	16,618	16,655
Industry	5,049	4,763	5,595	6,685	7,372	7,148	6,209	5,803	5,717
Transport	3,290	4,081	4,255	4,624	5,214	5,894	6,594	7,210	7,613
Residential & Commercial	1,232	1,476	1,530	1,665	1,746	1,781	1,916	1,836	1,821
Agriculture	701	792	799	763	805	824	810	895	820
Natural Gas, Town Gas									
Primary Energy Supply	1,569	1,185	1,063	968	979	1,116	1,130	1,728	2,498
Indigenous Production	1,569	1,185	1,063	968	979	1,117	1,125	1,045	790
Import	-	-	-	-	-	-	-	762	1,845
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-177	-180	-167	-151	-131	-204	-220	-1,848	-2,195
Power Generation	-	-	-	-	-	-	-	-241	-617
Final Energy Consumption	1,339	976	872	797	828	891	891	926	1,116
Industry	1,078	578	449	354	363	392	363	392	544
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	261	398	423	443	465	500	527	534	572
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	3,664	4,490	4,778	5,360	5,949	6,558	7,024	7,481	8,124
Thermal	2,707	1,995	1,712	2,405	2,488	3,393	4,018	3,951	4,615
Hydro	252	381	596	638	612	529	575	704	474
Nuclear	705	2,115	2,470	2,317	2,849	2,636	2,432	2,826	3,035
Final Energy Consumption	3,171	3,894	4,069	4,563	5,020	5,599	5,947	6,367	6,961
Industry	2,083	2,420	2,476	2,825	3,048	3,321	3,442	3,575	3,799
Transport	26	31	31	32	31	31	33	37	37
Residential & Commercial	999	1,356	1,465	1,590	1,788	2,092	2,322	2,616	2,974
Agriculture	63	87	97	116	152	156	150	139	151

Major Energy Indicators of Chinese Taipei (Continued)

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1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
51,280	55,579	58,216	62,407	65,401	68,785	73,072	75,987	79,272	84,535	89,273	92,579
10,482	10,443	10,805	10,913	11,485	11,065	11,306	11,560	11,476	10,751	11,608	11,432
44,142	48,141	51,232	57,083	59,524	64,028	67,723	73,308	78,713	82,174	85,838	92,768
-1,234	-918	-522	-1,350	-1,963	-2,741	-1,613	-2,096	-2,294	-4,435	-6,207	-9,761
32,427	35,472	38,105	38,998	41,559	44,138	44,681	50,872	53,848	59,247	62,167	62,312
17,204	18,377	19,901	19,946	21,361	23,609	22,288	27,289	29,393	35,031	36,640	35,892
7,981	9,329	10,063	10,630	11,045	11,292	11,875	12,472	12,455	12,353	12,892	12,914
5,558	5,996	6,444	6,678	7,312	7,397	8,022	8,359	9,041	9,410	9,740	10,584
956	975	993	1,022	1,046	949	799	833	948	975	985	1,106
13,431	15,139	15,660	16,041	18,269	20,808	22,582	23,691	27,493	29,358	31,266	33,675
197	193	168	139	87	58	47	54	49	-	-	-
13,588	15,583	16,460	17,655	19,093	22,281	22,786	25,243	27,911	30,003	32,042	33,746
-	-	-	-	-	-	-	-	-	-	-	-
-6,636	-7,723	-7,999	-8,160	-9,910	-11,228	-14,464	-16,021	-18,608	-20,041	-21,547	-23,859
-7,188	-8,363	-8,709	-8,820	-10,565	-11,880	-15,341	-16,829	-19,428	-20,964	-22,479	-24,798
6,795	7,416	7,661	7,881	8,359	9,580	8,095	7,659	8,391	8,820	9,179	9,232
6,794	7,414	7,661	7,881	8,359	9,580	8,095	7,658	8,339	8,753	9,082	8,931
-	-	-	-	-	-	-	-	-	-	-	-
2	2	0	-	0	-	-	1	0	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
22,265	24,744	23,759	28,885	30,741	31,326	33,103	35,142	36,188	37,779	39,154	44,066
62	56	59	53	51	43	46	40	32	35	44	39
22,672	24,487	23,644	28,679	31,217	31,068	32,930	34,588	36,876	37,884	39,039	44,236
-	-0	-	-	-	-	-	-	-	-	-	-
-22,265	-24,744	-23,759	-28,885	-30,741	-31,326	-33,103	-35,142	-36,188	-37,779	-39,154	-45,767
-22,265	-24,744	-23,759	-28,885	-30,741	-31,326	-33,103	-35,142	-36,188	-37,779	-39,154	-45,767
3,366	3,571	5,473	3,872	2,068	2,104	1,578	1,153	-803	1,318	981	-3,104
5,956	6,001	8,537	7,795	6,154	6,932	7,457	8,814	8,757	8,755	8,519	8,281
-1,234	-918	-522	-1,350	-1,963	-2,741	-1,613	-2,096	-2,294	-4,435	-6,207	-9,761
13,662	15,238	15,037	17,358	19,899	20,563	21,504	27,968	31,324	33,735	35,338	40,838
-4,701	-5,459	-5,523	-6,653	-5,715	-5,947	-6,105	-6,337	-6,171	-5,092	-4,241	-3,821
19,559	22,080	22,191	26,226	27,790	28,456	29,272	36,171	39,502	40,858	41,437	46,697
17,063	18,831	20,586	20,538	22,020	22,722	23,153	29,211	30,197	34,954	36,496	35,764
5,841	6,197	7,214	6,712	7,460	8,066	7,083	12,100	12,868	18,115	18,765	17,657
7,944	9,290	10,023	10,590	11,000	11,241	11,807	12,397	12,362	12,257	12,790	12,808
1,738	1,735	1,816	1,667	1,909	1,768	1,944	2,147	2,255	2,389	2,345	2,886
813	814	829	846	855	754	622	649	754	784	785	898
2,679	2,595	3,473	3,642	3,697	4,272	5,301	5,220	5,596	6,044	7,018	7,214
685	663	727	754	722	689	704	685	598	680	710	666
1,927	2,070	2,591	2,953	3,061	3,748	4,551	4,663	5,169	5,533	6,238	6,505
-	-	-	-	-	-	-	-	-	-	-	-
-2,146	-2,016	-2,887	-2,910	-2,854	-2,695	-3,640	-3,581	-4,050	-4,571	-5,311	-5,527
-638	-530	-1,130	-1,210	-1,300	-1,846	-2,876	-2,846	-3,393	-4,077	-4,782	-5,063
1,251	1,280	1,359	1,534	1,610	1,635	1,627	1,607	1,490	1,473	1,707	1,687
639	670	708	841	883	900	887	835	682	644	885	802
-	-	-	-	-	-	-	-	-	-	-	-
612	609	652	693	726	735	740	772	808	828	821	885
-	-	-	-	-	-	-	-	-	-	-	-
8,468	9,212	9,963	10,570	11,185	11,776	14,034	14,575	15,897	16,213	17,099	17,978
4,839	5,680	6,200	6,769	7,158	7,834	9,955	10,502	11,823	12,372	13,150	14,041
718	578	764	764	778	823	912	769	763	789	547	593
2,911	2,954	2,999	3,037	3,250	3,119	3,167	3,304	3,311	3,052	3,401	3,344
7,318	7,945	8,498	9,045	9,570	10,202	11,806	12,395	13,770	13,999	14,784	15,628
3,930	4,095	4,318	4,511	4,658	5,062	6,223	6,696	7,504	7,519	7,908	8,502
38	39	40	40	44	51	68	75	94	96	103	106
3,206	3,649	3,976	4,318	4,676	4,894	5,338	5,439	5,978	6,193	6,574	6,812
144	161	164	176	191	195	178	184	195	192	200	208

Major Economic Indicators of Chinese Taipei

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	17.81	19.01	19.26	19.46	19.67	19.90	20.11	20.35
Gross Domestic Product *2								
Real Term (Billions of 1995 Price and 1995 USD)	85.18	112.32	117.88	131.60	148.37	160.01	173.18	182.52
Real Term (Billions of 1995 Price and 1995 PPP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Nominal (Billions of Current USD)	41.41	59.36	62.08	80.43	113.38	125.07	150.51	158.89
GDP per Capita *2								
Real Term (1995 Price and 1995 USD)	4,784	5,908	6,121	6,764	7,542	8,039	8,613	8,968
Real Term (1995 Price and 1995 PPP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Nominal (Current USD)	2,326	3,122	3,223	4,134	5,763	6,284	7,485	7,807
Nominal GDP & its Components (Billions of Current TWD) *1								
Gross Domestic Product	1,491.06	2,343.08	2,473.79	2,855.18	3,237.05	3,523.19	3,938.83	4,307.04
Private Consumption, etc.	767.74	1,189.46	1,261.58	1,366.47	1,542.48	1,781.44	2,103.67	2,358.68
General Government Consumption	237.16	371.82	399.36	422.88	466.20	529.87	616.42	739.61
Fixed Investment	456.45	496.28	466.34	517.46	622.60	733.69	869.56	965.58
Stock Change	47.47	23.09	5.02	-16.81	44.34	100.24	53.86	28.54
Exports of Goods & NF Services	783.27	1,317.48	1,341.25	1,658.74	1,855.41	1,914.49	1,953.26	2,013.95
Imports of Goods & NF Services	801.03	1,055.05	999.77	1,093.57	1,293.97	1,536.52	1,657.94	1,799.32
Real GDP & its Components (Billions of 1996 TWD) *1								
Gross Domestic Product	2,394.91	3,157.82	3,314.21	3,699.89	4,171.44	4,498.50	4,868.83	5,131.51
Private Consumption, etc.	1,289.56	1,679.71	1,781.38	1,917.77	2,140.57	2,424.20	2,729.37	2,942.63
General Government Consumption	453.44	564.58	599.69	623.80	677.97	737.38	812.44	914.31
Fixed Investment	538.40	576.97	549.80	606.20	719.23	824.09	945.73	1,017.52
Stock Change	47.04	21.18	3.96	-17.31	47.00	105.36	56.03	30.86
Exports of Goods & NF Services	829.23	1,281.57	1,310.17	1,683.65	2,007.32	2,111.55	2,218.83	2,232.94
Imports of Goods & NF Services	762.75	966.19	930.79	1,114.21	1,420.65	1,704.08	1,893.55	2,006.75
Sectional Shares of Real GDP (%) *2								
Agriculture, Fishery and Forest	8.4	6.8	6.6	5.9	5.6	5.2	4.8	4.7
Industry	42.8	43.3	42.7	43.6	43.4	42.3	40.8	39.0
Services, etc.	48.8	50.0	50.7	50.4	51.0	52.5	54.4	56.3
Industrial Production Index (2000=100) *2	33.1	42.9	44.0	50.2	55.5	57.8	60.0	59.9
External Trade (Billions of Current USD) *1								
Exports	19.811	30.456	30.726	39.862	53.679	60.667	66.304	67.214
Imports, c.i.f.	19.733	21.959	20.102	24.181	34.983	49.673	52.265	54.716
Balance of Payments (Billions of Current USD) *1								
Trade Balance	0.078	9.262	11.151	16.910	20.160	13.690	16.115	14.807
Current Account	-0.913	6.979	9.204	16.287	18.003	10.200	11.416	10.923
Overall Balance	-0.319	3.976	6.525	23.322	28.091	-1.393	-0.780	-3.918
Foreign Exchange Rate (TWD/USD) *1	36.0100	39.4700	39.8500	35.5000	28.5500	28.1700	26.1700	27.1075
Purchasing Power Parity (TWD/International Dollar)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (1996=100) *2	62.3	74.2	74.6	77.2	77.6	78.3	80.9	83.9
Wholesale Price Index (2001=100) *2	102.4	109.2	106.4	102.8	99.5	97.9	97.6	97.0
Consumer Price Index (2001=100) *2	57.4	69.7	69.6	70.0	70.4	71.3	74.5	77.5
Growth Rate (%) *2								
Real GDP	7.30	10.60	4.95	11.64	12.74	7.84	8.23	5.39
Population	1.87	1.49	1.29	1.02	1.12	1.17	1.02	1.22
Price								
Wholesale Price Index	21.5	0.5	-2.6	-3.3	-3.2	-1.6	-0.4	-0.6
Consumer Price Index	19.0	0.0	-0.2	0.7	0.5	1.3	4.4	4.1

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

Major Economic Indicators of Chinese Taipei (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
20.56	20.75	20.94	21.13	21.30	21.47	21.68	21.87	22.03	22.22	22.34	22.45	22.54
196.31	211.01	225.81	241.86	257.40	273.10	291.34	304.65	321.18	340.00	332.57	344.51	355.68
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	752.74
186.84	210.17	222.28	246.33	257.40	279.30	255.19	277.47	295.86	292.92	271.62	280.54	283.38
9,550	10,168	10,782	11,448	12,082	12,720	13,436	13,930	14,576	15,304	14,887	15,343	15,784
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9,089	10,128	10,613	11,660	12,082	13,008	11,769	12,687	13,427	13,185	12,158	12,495	12,575
4,810.71	5,338.95	5,918.38	6,463.60	7,017.93	7,678.13	8,328.78	8,938.97	9,289.93	9,663.39	9,506.62	9,748.81	9,847.56
2,635.46	2,987.92	3,347.75	3,773.53	4,124.74	4,539.92	4,936.08	5,334.14	5,641.31	5,981.30	6,042.63	6,149.51	6,186.55
836.78	893.35	924.79	941.50	999.08	1,097.70	1,197.63	1,279.70	1,221.72	1,247.00	1,240.44	1,232.68	1,261.41
1,066.60	1,288.58	1,489.59	1,588.78	1,750.64	1,727.37	1,895.36	2,103.92	2,124.74	2,267.30	1,781.75	1,728.28	1,724.37
53.82	73.83	60.02	51.84	26.85	54.01	121.09	122.57	46.63	-55.00	-99.60	-84.11	-34.62
2,280.51	2,324.86	2,608.92	2,821.16	3,367.00	3,640.09	4,019.88	4,274.22	4,486.09	5,261.00	4,839.82	5,245.95	5,721.98
2,062.46	2,229.59	2,512.68	2,713.22	3,250.38	3,380.96	3,841.26	4,175.58	4,230.57	5,038.20	4,298.42	4,523.49	5,012.15
5,519.14	5,932.38	6,348.47	6,799.72	7,236.54	7,678.13	8,190.78	8,565.13	9,029.70	9,558.84	9,349.92	9,685.55	9,999.79
3,158.94	3,440.69	3,720.10	4,034.39	4,261.49	4,539.92	4,869.68	5,187.39	5,466.13	5,735.41	5,794.86	5,909.89	5,956.36
982.05	1,010.92	1,015.36	997.76	1,029.18	1,097.70	1,162.10	1,209.99	1,131.42	1,137.66	1,126.00	1,123.70	1,133.08
1,111.39	1,316.77	1,474.33	1,583.43	1,699.13	1,727.37	1,911.32	2,064.43	2,101.15	2,282.02	1,881.59	1,773.02	1,744.72
54.96	75.89	63.02	53.07	25.10	54.01	122.77	126.47	50.62	-54.99	-103.88	-88.60	-33.99
2,521.80	2,690.09	2,888.11	3,035.51	3,410.23	3,640.09	3,970.46	4,066.15	4,549.84	5,348.40	4,932.79	5,424.97	5,994.00
2,310.00	2,601.98	2,812.45	2,904.44	3,188.61	3,380.96	3,845.55	4,089.30	4,269.46	4,889.81	4,211.44	4,457.42	4,794.37
4.4	4.0	3.9	3.5	3.4	3.2	2.9	2.6	2.6	2.5	2.5	2.5	2.4
38.8	38.2	37.4	37.1	36.6	35.7	35.5	34.9	34.6	34.6	33.3	33.7	34.2
56.8	57.8	58.7	59.4	60.0	61.1	61.5	62.5	62.8	63.0	64.3	63.8	63.4
64.3	67.2	69.7	74.4	77.9	79.4	84.3	87.1	93.5	100.0	92.2	99.5	106.6
76.178	81.470	85.091	93.049	111.659	115.942	122.081	110.582	121.591	148.321	122.866	130.597	144.180
62.861	72.007	77.061	85.349	103.550	102.370	114.425	104.665	110.690	140.011	107.237	112.530	127.249
15.683	12.718	11.450	11.849	13.235	17.543	13.882	10.316	14.705	13.624	19.864	24.193	24.899
12.468	8.550	7.042	6.498	5.474	10.923	7.051	3.437	7.992	8.851	17.891	25.630	29.202
9.659	1.367	1.541	4.622	-3.931	1.102	-0.728	4.827	18.593	2.477	17.353	33.664	37.092
25.7475	25.4025	26.6260	26.2400	27.2650	27.4910	32.6380	32.2160	31.4000	32.9900	35.0000	34.7500	34.7500
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
87.2	90.0	93.2	95.1	97.0	100.0	101.7	104.4	102.9	101.1	101.7	100.7	98.5
97.1	93.6	95.9	98.0	105.2	104.2	103.7	104.3	99.6	101.4	100.0	100.1	102.5
80.3	83.9	86.4	89.9	93.2	96.1	97.0	98.6	98.8	100.0	100.0	99.8	99.5
7.55	7.49	7.01	7.11	6.42	6.10	6.68	4.57	10.24	11.60	3.55	1.33	6.95
1.00	0.95	0.93	0.87	0.84	0.78	0.99	0.87	1.62	1.58	1.39	1.07	0.87
0.2	-3.7	2.5	2.2	7.4	-1.0	-0.5	0.6	-4.0	-2.8	0.5	-1.3	2.5
3.6	4.5	2.9	4.1	3.7	3.1	0.9	1.7	1.9	1.4	1.2	-0.2	-0.5

Original Table (Energy Demand and Supply) of Chinese Taipei in 2003

Year:2003

Chinese Taipei	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
CRUDE OIL AND NGL/CONDENSATE	45.76	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	39.12	*10 ¹⁰ KCAL
CRUDE OIL	45.76	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	39.12	*10 ¹⁰ KCAL
NATURAL GAS AND LNG	830.89	*10 ⁶ CM	0.8010	*10 ¹⁰ KCAL / *10 ⁶ CM	665.55	*10 ¹⁰ KCAL
NATURAL GAS	830.89	*10 ⁶ CM	0.8010	*10 ¹⁰ KCAL / *10 ⁶ CM	665.55	*10 ¹⁰ KCAL
HYDRO POWER	6,894.96	GWH	0.0860	*10 ¹⁰ KCAL / GWH	592.97	*10 ¹⁰ KCAL
NUCLEAR POWER	38,889.58	GWH	0.2606	*10 ¹⁰ KCAL / GWH	10,134.62	*10 ¹⁰ KCAL
TOTAL PRODUCTION					11,432.26	*10 ¹⁰ KCAL
OPENING STOCKS						
TOTAL OPENING STOCKS						*10 ¹⁰ KCAL
CLOSING STOCKS						
TOTAL CLOSING STOCKS						*10 ¹⁰ KCAL
STOCK CHANGE						
COAL					-45.26	*10 ¹⁰ KCAL
HARD COAL					-45.26	*10 ¹⁰ KCAL
STEAM COAL	3,761.71	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	2,215.65	*10 ¹⁰ KCAL
COKING COAL	-3,499.85	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	-2,260.90	*10 ¹⁰ KCAL
COKE	-38.66	*10 ³ MT	0.6650	*10 ¹⁰ KCAL / *10 ³ MT	-25.71	*10 ¹⁰ KCAL
CRUDE OIL AND NGL/CONDENSATE	-244.62	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	-209.15	*10 ¹⁰ KCAL
CRUDE OIL	-244.62	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	-209.15	*10 ¹⁰ KCAL
LPG	-45.31	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	-51.00	*10 ¹⁰ KCAL
NAPHTHA	358.32	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	265.51	*10 ¹⁰ KCAL
MOGAS	374.36	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	277.40	*10 ¹⁰ KCAL
JET FUEL	313.49	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	238.25	*10 ¹⁰ KCAL
KEROSENE	16.13	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	13.03	*10 ¹⁰ KCAL
DIESEL OIL	202.66	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	169.42	*10 ¹⁰ KCAL
FUEL OIL	201.67	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	176.26	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	131.28	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	112.24	*10 ¹⁰ KCAL
NATURAL GAS AND LNG	48.48	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	43.20	*10 ¹⁰ KCAL
NATURAL GAS	-1.07	*10 ⁶ CM	0.8010	*10 ¹⁰ KCAL / *10 ⁶ CM	-0.86	*10 ¹⁰ KCAL
LNG	49.45	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	44.06	*10 ¹⁰ KCAL
TOTAL STOCK CHANGE					964.19	*10 ¹⁰ KCAL
IMPORTS						
COAL					33,625.22	*10 ¹⁰ KCAL
HARD COAL					33,625.22	*10 ¹⁰ KCAL
STEAM COAL	45,822.35	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	27,859.99	*10 ¹⁰ KCAL
COKING COAL	8,924.50	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	5,765.23	*10 ¹⁰ KCAL
COKE	182.20	*10 ³ MT	0.6650	*10 ¹⁰ KCAL / *10 ³ MT	121.16	*10 ¹⁰ KCAL
CRUDE OIL AND NGL/CONDENSATE	51,737.78	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	44,235.80	*10 ¹⁰ KCAL
CRUDE OIL	51,737.78	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	44,235.80	*10 ¹⁰ KCAL
LPG	796.54	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	896.67	*10 ¹⁰ KCAL
NAPHTHA	7,935.30	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	5,880.06	*10 ¹⁰ KCAL
MOGAS	225.99	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	167.46	*10 ¹⁰ KCAL
DIESEL OIL	25.13	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	21.01	*10 ¹⁰ KCAL
FUEL OIL	391.50	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	342.17	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	1,138.36	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	973.30	*10 ¹⁰ KCAL
NATURAL GAS AND LNG	7,300.74	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	6,504.96	*10 ¹⁰ KCAL
LNG	7,300.74	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	6,504.96	*10 ¹⁰ KCAL
TOTAL IMPORTS					92,767.81	*10 ¹⁰ KCAL
EXPORTS						
LPG	358.93	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	404.04	*10 ¹⁰ KCAL
NAPHTHA	50.74	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	37.59	*10 ¹⁰ KCAL
MOGAS	2,944.46	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	2,181.84	*10 ¹⁰ KCAL
JET FUEL	586.96	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	446.09	*10 ¹⁰ KCAL
KEROSENE	336.07	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	271.38	*10 ¹⁰ KCAL
DIESEL OIL	5,377.60	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	4,495.67	*10 ¹⁰ KCAL
FUEL OIL	827.15	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	722.93	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	1,404.62	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	1,200.95	*10 ¹⁰ KCAL
TOTAL EXPORTS					9,760.50	*10 ¹⁰ KCAL
INTERNATIONAL MARINE BUNKERS						
DIESEL OIL	3,303.93	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	2,824.86	*10 ¹⁰ KCAL
FUEL OIL	204.03	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	170.57	*10 ¹⁰ KCAL
FUEL OIL	3,033.29	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	2,651.09	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS						
	3.80	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	3.25	*10 ¹⁰ KCAL
TOTAL PRIMARY ENERGY SUPPLY					92,578.85	*10 ¹⁰ KCAL
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	5,870.62	*10 ³ MT	0.6401	*10 ¹⁰ KCAL / *10 ³ MT	3,757.74	*10 ¹⁰ KCAL
HARD COAL	5,870.62	*10 ³ MT	0.6401	*10 ¹⁰ KCAL / *10 ³ MT	3,757.74	*10 ¹⁰ KCAL
STEAM COAL	912.63	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	554.88	*10 ¹⁰ KCAL
COKING COAL	4,957.99	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	3,202.86	*10 ¹⁰ KCAL
REFINING						
CRUDE OIL AND NGL/CONDENSATE	51,538.91	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	44,065.77	*10 ¹⁰ KCAL
CRUDE OIL	51,538.91	*10 ³ KL	0.8550	*10 ¹⁰ KCAL / *10 ³ KL	44,065.77	*10 ¹⁰ KCAL
NAPHTHA	3,734.91	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	2,767.57	*10 ¹⁰ KCAL
NATURAL GAS AND LNG	3.69	*10 ⁶ CM	0.8010	*10 ¹⁰ KCAL / *10 ⁶ CM	2.96	*10 ¹⁰ KCAL
NATURAL GAS	3.69	*10 ⁶ CM	0.8010	*10 ¹⁰ KCAL / *10 ⁶ CM	2.96	*10 ¹⁰ KCAL
OTHERS	1,990.25	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	1,701.66	*10 ¹⁰ KCAL
GAS PROCESSING						
LNG	1,652.17	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	1,472.08	*10 ¹⁰ KCAL
POWER GENERATION (PUBLIC UTILITIES)						

Original Table (Energy Demand and Supply) of Chinese Taipei in 2003 (Continued)
Year:2003

Chinese Taipei	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COAL	31,652.34	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	18,643.23	*10 ¹⁰ KCAL
HARD COAL	31,652.34	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	18,643.23	*10 ¹⁰ KCAL
STEAM COAL	31,652.34	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	18,643.23	*10 ¹⁰ KCAL
DIESEL OIL	133.01	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	111.20	*10 ¹⁰ KCAL
FUEL OIL	3,208.79	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	2,804.48	*10 ¹⁰ KCAL
NATURAL GAS AND LNG	5,424.01	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	4,832.79	*10 ¹⁰ KCAL
LNG	5,424.01	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	4,832.79	*10 ¹⁰ KCAL
HYDRO POWER	6,894.96	GWH	0.0860	*10 ¹⁰ KCAL / GWH	592.97	*10 ¹⁰ KCAL
NUCLEAR POWER	38,889.58	GWH	0.2606	*10 ¹⁰ KCAL / GWH	10,134.62	*10 ¹⁰ KCAL
POWER GENERATION (AUTO PRODUCERS)						
COAL	9,424.92	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	5,730.35	*10 ¹⁰ KCAL
HARD COAL	9,424.92	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	5,730.35	*10 ¹⁰ KCAL
STEAM COAL	9,424.92	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	5,730.35	*10 ¹⁰ KCAL
COKE OVEN GAS	234.87	*10 ⁶ CM	0.3883	*10 ¹⁰ KCAL / *10 ⁶ CM	91.20	*10 ¹⁰ KCAL
BLAST FURNACE GAS	5,195.44	*10 ⁶ CM	0.0642	*10 ¹⁰ KCAL / *10 ⁶ CM	333.55	*10 ¹⁰ KCAL
REFINERY GAS	39.99	*10 ⁶ CM	0.8550	*10 ¹⁰ KCAL / *10 ⁶ CM	34.19	*10 ¹⁰ KCAL
FUEL OIL	996.64	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	871.06	*10 ¹⁰ KCAL
NATURAL GAS AND LNG	258.75	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	230.54	*10 ¹⁰ KCAL
NATURAL GAS	6.36	*10 ⁶ CM	0.8010	*10 ¹⁰ KCAL / *10 ⁶ CM	5.09	*10 ¹⁰ KCAL
LNG	253.03	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	225.45	*10 ¹⁰ KCAL
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	4,390.15	*10 ³ MT	0.6650	*10 ¹⁰ KCAL / *10 ³ MT	2,919.45	*10 ¹⁰ KCAL
COKE OVEN GAS	2,108.30	*10 ⁶ CM	0.3883	*10 ¹⁰ KCAL / *10 ⁶ CM	818.65	*10 ¹⁰ KCAL
BLAST FURNACE GAS	14,938.31	*10 ⁶ CM	0.0642	*10 ¹⁰ KCAL / *10 ⁶ CM	959.04	*10 ¹⁰ KCAL
REFINING						
REFINERY GAS	1,414.22	*10 ⁶ CM	0.8550	*10 ¹⁰ KCAL / *10 ⁶ CM	1,209.16	*10 ¹⁰ KCAL
LPG	1,364.67	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	1,536.21	*10 ¹⁰ KCAL
NAPHTHA	10,556.86	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	7,822.64	*10 ¹⁰ KCAL
MOGAS	12,472.48	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	9,242.11	*10 ¹⁰ KCAL
JET FUEL	2,978.13	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	2,263.38	*10 ¹⁰ KCAL
ATF/AVGAS	0.08	*10 ³ KL	0.7125	*10 ¹⁰ KCAL / *10 ³ KL	0.05	*10 ¹⁰ KCAL
KEROSENE	393.66	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	317.88	*10 ¹⁰ KCAL
DIESEL OIL	11,722.67	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	9,800.15	*10 ¹⁰ KCAL
FUEL OIL	15,112.72	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	13,208.51	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	4,754.08	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	4,064.75	*10 ¹⁰ KCAL
GAS RECOVERING						
TOWN GAS	1,578.73	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	1,406.65	*10 ¹⁰ KCAL
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	125,278.29	GWH	0.0860	*10 ¹⁰ KCAL / GWH	10,773.93	*10 ¹⁰ KCAL
HYDRO POWER	6,894.96	GWH	0.0860	*10 ¹⁰ KCAL / GWH	592.97	*10 ¹⁰ KCAL
NUCLEAR POWER	38,889.58	GWH	0.0860	*10 ¹⁰ KCAL / GWH	3,344.50	*10 ¹⁰ KCAL
POWER GENERATION (AUTO PRODUCERS)						
THERMAL	37,988.57	GWH	0.0860	*10 ¹⁰ KCAL / GWH	3,267.02	*10 ¹⁰ KCAL
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
BLAST FURNACE GAS	1.17	*10 ⁶ CM	0.0642	*10 ¹⁰ KCAL / *10 ⁶ CM	0.08	*10 ¹⁰ KCAL
REFINERY GAS	1,374.23	*10 ⁶ CM	0.8550	*10 ¹⁰ KCAL / *10 ⁶ CM	1,174.96	*10 ¹⁰ KCAL
LPG	27.37	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	30.81	*10 ¹⁰ KCAL
MOGAS	13.45	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	9.97	*10 ¹⁰ KCAL
KEROSENE	0.01	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.00	*10 ¹⁰ KCAL
DIESEL OIL	94.62	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	79.10	*10 ¹⁰ KCAL
FUEL OIL	850.35	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	743.21	*10 ¹⁰ KCAL
TOWN GAS	443.42	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	395.09	*10 ¹⁰ KCAL
ELECTRICITY	27,334.51	GWH	0.0860	*10 ¹⁰ KCAL / GWH	2,350.77	*10 ¹⁰ KCAL
TOTAL LOSSES AND OWN USE					4,783.98	*10 ¹⁰ KCAL
FINAL ENERGY CONSUMPTION TOTAL						
COAL	8,213.91	*10 ³ MTCE	0.5922	*10 ¹⁰ KCAL / *10 ³ MTCE	4,864.59	*10 ¹⁰ KCAL
HARD COAL	8,213.91	*10 ³ MTCE	0.5922	*10 ¹⁰ KCAL / *10 ³ MTCE	4,864.59	*10 ¹⁰ KCAL
STEAM COAL	7,747.25	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	4,563.13	*10 ¹⁰ KCAL
COKING COAL	466.66	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	301.46	*10 ¹⁰ KCAL
COKE	730.93	*10 ³ MT	0.6650	*10 ¹⁰ KCAL / *10 ³ MT	486.07	*10 ¹⁰ KCAL
COKE OVEN GAS	1,873.43	*10 ⁶ CM	0.3883	*10 ¹⁰ KCAL / *10 ⁶ CM	727.45	*10 ¹⁰ KCAL
BLAST FURNACE GAS	9,741.70	*10 ⁶ CM	0.0642	*10 ¹⁰ KCAL / *10 ⁶ CM	625.42	*10 ¹⁰ KCAL
LPG	1,691.03	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	1,903.59	*10 ¹⁰ KCAL
NAPHTHA	15,064.84	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	11,163.05	*10 ¹⁰ KCAL
MOGAS	10,098.97	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	7,483.34	*10 ¹⁰ KCAL
JET FUEL	2,592.62	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	1,970.39	*10 ¹⁰ KCAL
ATF/AVGAS	0.08	*10 ³ KL	0.7125	*10 ¹⁰ KCAL / *10 ³ KL	0.05	*10 ¹⁰ KCAL
KEROSENE	25.14	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	20.30	*10 ¹⁰ KCAL
DIESEL OIL	5,726.61	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	4,787.45	*10 ¹⁰ KCAL
FUEL OIL	5,711.04	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	4,991.45	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	4,028.87	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	3,444.67	*10 ¹⁰ KCAL
TOWN GAS	1,893.26	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	1,686.90	*10 ¹⁰ KCAL
ELECTRICITY	181,721.14	GWH	0.0860	*10 ¹⁰ KCAL / GWH	15,628.02	*10 ¹⁰ KCAL
TOTAL					59,782.74	*10 ¹⁰ KCAL
AGRICULTURE						
LPG	0.01	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	0.02	*10 ¹⁰ KCAL
MOGAS	0.28	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	0.21	*10 ¹⁰ KCAL
DIESEL OIL	1,045.84	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	874.32	*10 ¹⁰ KCAL
FUEL OIL	27.35	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	23.90	*10 ¹⁰ KCAL
ELECTRICITY	2,416.30	GWH	0.0860	*10 ¹⁰ KCAL / GWH	207.80	*10 ¹⁰ KCAL

Original Table (Energy Demand and Supply) of Chinese Taipei in 2003 (Continued)

Year:2003

Chinese Taipei	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL					1,106.25	*10 ¹⁰ KCAL
RESIDENTIAL COMMERCIAL						
LPG	1,136.78	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	1,279.67	*10 ¹⁰ KCAL
MOGAS	84.88	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	62.90	*10 ¹⁰ KCAL
JET FUEL	211.67	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	160.87	*10 ¹⁰ KCAL
KEROSENE	15.51	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	12.52	*10 ¹⁰ KCAL
DIESEL OIL	488.32	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	408.23	*10 ¹⁰ KCAL
FUEL OIL	1,100.89	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	962.18	*10 ¹⁰ KCAL
TOWN GAS	993.46	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	885.18	*10 ¹⁰ KCAL
ELECTRICITY	79,211.18	GWH	0.0860	*10 ¹⁰ KCAL / GWH	6,812.16	*10 ¹⁰ KCAL
TOTAL					10,583.71	*10 ¹⁰ KCAL
OTHERS						
TOTAL						*10 ¹⁰ KCAL
INDUSTRY						
COAL	7,747.25	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	4,563.13	*10 ¹⁰ KCAL
HARD COAL	7,747.25	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	4,563.13	*10 ¹⁰ KCAL
STEAM COAL	7,747.25	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	4,563.13	*10 ¹⁰ KCAL
COKE	4,533.69	*10 ³ MT	0.6650	*10 ¹⁰ KCAL / *10 ³ MT	3,014.91	*10 ¹⁰ KCAL
COKE OVEN GAS	1,873.43	*10 ⁶ CM	0.3883	*10 ¹⁰ KCAL / *10 ⁶ CM	727.45	*10 ¹⁰ KCAL
BLAST FURNACE GAS	9,741.70	*10 ⁶ CM	0.0642	*10 ¹⁰ KCAL / *10 ⁶ CM	625.42	*10 ¹⁰ KCAL
LPG	539.54	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	607.36	*10 ¹⁰ KCAL
NAPHTHA	15,064.84	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	11,163.05	*10 ¹⁰ KCAL
MOGAS	8.90	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	6.59	*10 ¹⁰ KCAL
KEROSENE	9.61	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	7.76	*10 ¹⁰ KCAL
DIESEL OIL	163.34	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	136.55	*10 ¹⁰ KCAL
FUEL OIL	4,354.16	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	3,805.53	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	2,258.07	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	1,930.65	*10 ¹⁰ KCAL
TOWN GAS	899.80	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	801.72	*10 ¹⁰ KCAL
ELECTRICITY	98,856.65	GWH	0.0860	*10 ¹⁰ KCAL / GWH	8,501.67	*10 ¹⁰ KCAL
TOTAL					35,891.79	*10 ¹⁰ KCAL
TRANSPORT						
LPG	14.70	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	16.54	*10 ¹⁰ KCAL
MOGAS	10,004.91	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	7,413.63	*10 ¹⁰ KCAL
JET FUEL	2,380.96	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	1,809.53	*10 ¹⁰ KCAL
ATF/AVGAS	0.08	*10 ³ KL	0.7125	*10 ¹⁰ KCAL / *10 ³ KL	0.05	*10 ¹⁰ KCAL
KEROSENE	0.02	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.02	*10 ¹⁰ KCAL
DIESEL OIL	4,029.11	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	3,368.34	*10 ¹⁰ KCAL
FUEL OIL	228.65	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	199.84	*10 ¹⁰ KCAL
ELECTRICITY	1,237.02	GWH	0.0860	*10 ¹⁰ KCAL / GWH	106.38	*10 ¹⁰ KCAL
TOTAL					12,914.33	*10 ¹⁰ KCAL
NON-ENERGY						
COAL	466.66	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	301.46	*10 ¹⁰ KCAL
HARD COAL	466.66	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	301.46	*10 ¹⁰ KCAL
COKING COAL	466.66	*10 ³ MT	0.6460	*10 ¹⁰ KCAL / *10 ³ MT	301.46	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	1,770.81	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	1,514.04	*10 ¹⁰ KCAL
TOTAL NON-ENERGY USE					1,815.50	*10 ¹⁰ KCAL

Original Table (Energy Demand and Supply) of Chinese Taipei in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of : the end of 2003
unit: MW

THERMAL POWER	25,106	
COAL	11,200	
OIL	3,563	
GAS	10,343	
HYDRO POWER	4,511	
NUCLEAR POWER	5,144	
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION	6,805	
COAL	4,940	
OIL	535	
GAS	715	
OTHERS (BIOMASS, MUNICIPAL WASTE)	615	

REFINING CAPACITY

At the time of : the end of 2003

	Unit	
OPERATING RATE (*1)	%	73
CRUDE DISTILLATION CAPACITY	1000BD	1,220
VACUUM DISTILLATION CAPACITY	1000BD	192
CATALYTIC HYDROCRACKING CAPACITY	1000BD	10
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	117
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	275
CATALYTIC CRACKING CAPACITY	1000BD	246
CATALYTIC REFORMING CAPACITY	1000BD	140

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of : the end of 2003
unit:

	1.	2.	3.	4.	5. TOTAL
PRIMARY ENERGY SUPPLY	N.A.	N.A.	N.A.	N.A.	N.A.
INDIGENOUS PRODUCTION	N.A.	N.A.	N.A.	N.A.	N.A.
IMPORTS	N.A.	N.A.	N.A.	N.A.	N.A.
EXPORTS	N.A.	N.A.	N.A.	N.A.	N.A.
TOTAL	N.A.	N.A.	N.A.	N.A.	N.A.
TRANSFORMATION (INPUT)	N.A.	N.A.	N.A.	N.A.	N.A.
TRANSFORMATION (OUTPUT)	N.A.	N.A.	N.A.	N.A.	N.A.
FINAL ENERGY CONSUMPTION	N.A.	N.A.	N.A.	N.A.	N.A.
AGRICULTURE	N.A.	N.A.	N.A.	N.A.	N.A.
RESIDENTIAL COMMERCIAL	N.A.	N.A.	N.A.	N.A.	N.A.
INDUSTRY	N.A.	N.A.	N.A.	N.A.	N.A.
TRANSPORT	N.A.	N.A.	N.A.	N.A.	N.A.
TOTAL	N.A.	N.A.	N.A.	N.A.	N.A.

Note: MT:Metric Ton
 KL:Kilo Liter
 CM:Cubic Meter
 GWH:Giga Watt Hour
 MTCE:Metric Ton of Coal Equivalent
 KLOE:Kilo Liter of Oil Equivalent
 *3:Thousand
 *6:Million
 *10:Ten billion

Original Table (Disaggregated Final Energy Demand) of Chinese Taipei in 2003

Chinese Taipei	2003					
	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	1,276.11	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	775.87	*10 ¹⁰ KCAL
HARD COAL	1,276.11	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	775.87	*10 ¹⁰ KCAL
STEAM COAL	1,276.11	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	775.87	*10 ¹⁰ KCAL
COKE	730.93	*10 ³ MT	0.6650	*10 ¹⁰ KCAL / *10 ³ MT	486.07	*10 ¹⁰ KCAL
COKE OVEN GAS	1,873.43	*10 ⁶ CM	0.3883	*10 ¹⁰ KCAL / *10 ⁶ CM	727.45	*10 ¹⁰ KCAL
BLAST FURNACE GAS	9,741.70	*10 ⁶ CM	0.0642	*10 ¹⁰ KCAL / *10 ⁶ CM	625.42	*10 ¹⁰ KCAL
LPG	33.09	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	37.25	*10 ¹⁰ KCAL
MOGAS	0.18	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	0.13	*10 ¹⁰ KCAL
KEROSENE	6.12	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	4.94	*10 ¹⁰ KCAL
DIESEL OIL	6.94	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	5.80	*10 ¹⁰ KCAL
FUEL OIL	440.69	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	385.16	*10 ¹⁰ KCAL
TOWN GAS	207.81	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	185.16	*10 ¹⁰ KCAL
ELECTRICITY	12,642.83	GWh	0.0860	*10 ¹⁰ KCAL / GWh	1,087.28	*10 ¹⁰ KCAL
PUBLIC UTILITIES	9,111.80	GWh	0.0860	*10 ¹⁰ KCAL / GWh	783.61	*10 ¹⁰ KCAL
AUTOPRODUCER	3,531.04	GWh	0.0860	*10 ¹⁰ KCAL / GWh	303.67	*10 ¹⁰ KCAL
TOTAL					4,320.53	*10 ¹⁰ KCAL
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	3,253.65	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	1,916.40	*10 ¹⁰ KCAL
HARD COAL	3,253.65	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	1,916.40	*10 ¹⁰ KCAL
STEAM COAL	3,253.65	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	1,916.40	*10 ¹⁰ KCAL
LPG	294.44	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	331.45	*10 ¹⁰ KCAL
NAPHTHA	15,041.05	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	11,145.42	*10 ¹⁰ KCAL
MOGAS	0.12	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	0.09	*10 ¹⁰ KCAL
KEROSENE	0.03	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.02	*10 ¹⁰ KCAL
DIESEL OIL	25.30	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	21.15	*10 ¹⁰ KCAL
FUEL OIL	1,350.42	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	1,180.26	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	2,255.24	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	1,928.23	*10 ¹⁰ KCAL
TOWN GAS	173.54	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	154.63	*10 ¹⁰ KCAL
ELECTRICITY	32,564.51	GWh	0.0860	*10 ¹⁰ KCAL / GWh	2,800.55	*10 ¹⁰ KCAL
PUBLIC UTILITIES	14,243.14	GWh	0.0860	*10 ¹⁰ KCAL / GWh	1,224.91	*10 ¹⁰ KCAL
AUTOPRODUCER	18,321.37	GWh	0.0860	*10 ¹⁰ KCAL / GWh	1,575.64	*10 ¹⁰ KCAL
TOTAL					19,478.21	*10 ¹⁰ KCAL
1.3 NON-FERROUS METALS						
LPG	15.82	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	17.81	*10 ¹⁰ KCAL
NAPHTHA	23.79	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	17.63	*10 ¹⁰ KCAL
MOGAS	0.09	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	0.07	*10 ¹⁰ KCAL
KEROSENE	2.37	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	1.92	*10 ¹⁰ KCAL
DIESEL OIL	1.13	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	0.95	*10 ¹⁰ KCAL
FUEL OIL	60.67	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	53.02	*10 ¹⁰ KCAL
TOWN GAS	5.00	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	4.46	*10 ¹⁰ KCAL
ELECTRICITY	1,112.18	GWh	0.0860	*10 ¹⁰ KCAL / GWh	95.65	*10 ¹⁰ KCAL
PUBLIC UTILITIES	1,112.18	GWh	0.0860	*10 ¹⁰ KCAL / GWh	95.65	*10 ¹⁰ KCAL
TOTAL					191.51	*10 ¹⁰ KCAL
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	2,687.38	*10 ³ MT	0.5890	*10 ¹⁰ KCAL / *10 ³ MT	1,582.87	*10 ¹⁰ KCAL
HARD COAL	2,687.38	*10 ³ MT	0.5890	*10 ¹⁰ KCAL / *10 ³ MT	1,582.87	*10 ¹⁰ KCAL
STEAM COAL	2,687.38	*10 ³ MT	0.5890	*10 ¹⁰ KCAL / *10 ³ MT	1,582.87	*10 ¹⁰ KCAL
LPG	19.81	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	22.30	*10 ¹⁰ KCAL
MOGAS	0.10	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	0.07	*10 ¹⁰ KCAL
KEROSENE	0.01	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.01	*10 ¹⁰ KCAL
DIESEL OIL	30.57	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	25.56	*10 ¹⁰ KCAL
FUEL OIL	373.03	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	326.03	*10 ¹⁰ KCAL
OTHER PETROLEUM PRODUCTS	2.82	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	2.41	*10 ¹⁰ KCAL
TOWN GAS	210.57	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	187.62	*10 ¹⁰ KCAL
ELECTRICITY	4,140.08	GWh	0.0860	*10 ¹⁰ KCAL / GWh	356.05	*10 ¹⁰ KCAL
PUBLIC UTILITIES	3,905.11	GWh	0.0860	*10 ¹⁰ KCAL / GWh	335.84	*10 ¹⁰ KCAL
AUTOPRODUCER	234.96	GWh	0.0860	*10 ¹⁰ KCAL / GWh	20.21	*10 ¹⁰ KCAL
TOTAL					2,502.94	*10 ¹⁰ KCAL
1.5 PAPER, PULP AND PRINTING						
COAL	402.59	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	237.13	*10 ¹⁰ KCAL
HARD COAL	402.59	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	237.13	*10 ¹⁰ KCAL
STEAM COAL	402.59	*10 ³ MTCE	0.5890	*10 ¹⁰ KCAL / *10 ³ MTCE	237.13	*10 ¹⁰ KCAL
LPG	6.55	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	7.37	*10 ¹⁰ KCAL
MOGAS	0.31	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	0.23	*10 ¹⁰ KCAL
KEROSENE	0.07	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.06	*10 ¹⁰ KCAL
DIESEL OIL	1.08	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	0.91	*10 ¹⁰ KCAL
FUEL OIL	229.63	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	200.69	*10 ¹⁰ KCAL
TOWN GAS	5.72	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	5.09	*10 ¹⁰ KCAL

Original Table (Disaggregated Final Energy Demand) of Chinese Taipei in 2003 (Continued)

Chinese Taipei	2003		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
ELECTRICITY	4,182.06	GWh	0.0860	*10 ¹⁰ KCAL / GWh	359.66	*10 ¹⁰ KCAL		
PUBLIC UTILITIES	2,688.93	GWh	0.0860	*10 ¹⁰ KCAL / GWh	231.25	*10 ¹⁰ KCAL		
AUTOPRODUCER	1,493.13	GWh	0.0860	*10 ¹⁰ KCAL / GWh	128.41	*10 ¹⁰ KCAL		
TOTAL					811.14	*10 ¹⁰ KCAL		
1.6 OTHER INDUSTRIES								
COAL	83.61	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	50.83	*10 ¹⁰ KCAL		
HARD COAL	83.61	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	50.83	*10 ¹⁰ KCAL		
STEAM COAL	83.61	*10 ³ MT	0.6080	*10 ¹⁰ KCAL / *10 ³ MT	50.83	*10 ¹⁰ KCAL		
LPG	169.70	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	191.03	*10 ¹⁰ KCAL		
MOGAS	8.11	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	6.01	*10 ¹⁰ KCAL		
KEROSENE	1.01	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.81	*10 ¹⁰ KCAL		
DIESEL OIL	98.31	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	82.19	*10 ¹⁰ KCAL		
FUEL OIL	1,899.73	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	1,660.36	*10 ¹⁰ KCAL		
TOWN GAS	297.16	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	264.77	*10 ¹⁰ KCAL		
ELECTRICITY	44,214.99	GWh	0.0860	*10 ¹⁰ KCAL / GWh	3,802.49	*10 ¹⁰ KCAL		
PUBLIC UTILITIES	43,725.82	GWh	0.0860	*10 ¹⁰ KCAL / GWh	3,760.42	*10 ¹⁰ KCAL		
AUTOPRODUCER	489.17	GWh	0.0860	*10 ¹⁰ KCAL / GWh	42.07	*10 ¹⁰ KCAL		
TOTAL					6,058.49	*10 ¹⁰ KCAL		
2 TRANSPORTATION SECTOR								
2.1 AIR								
JET FUEL	2,380.96	*10 ³ KL	0.7600	*10 ¹⁰ KCAL / *10 ³ KL	1,809.53	*10 ¹⁰ KCAL		
DIESEL OIL	1.89	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	1.58	*10 ¹⁰ KCAL		
FUEL OIL	1.21	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	1.05	*10 ¹⁰ KCAL		
ELECTRICITY	337.18	GWh	0.0860	*10 ¹⁰ KCAL / GWh	29.00	*10 ¹⁰ KCAL		
OTHER PETROLEUM PRODUCTS	0.06	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	0.05	*10 ¹⁰ KCAL		
TOTAL					1,841.21	*10 ¹⁰ KCAL		
2.2 ROAD								
LPG	14.70	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	16.54	*10 ¹⁰ KCAL		
MOGAS	10,004.91	*10 ³ KL	0.7410	*10 ¹⁰ KCAL / *10 ³ KL	7,413.64	*10 ¹⁰ KCAL		
DIESEL OIL	3,875.81	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	3,240.17	*10 ¹⁰ KCAL		
FUEL OIL	3.19	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	2.79	*10 ¹⁰ KCAL		
ELECTRICITY	35.17	GWh	0.0860	*10 ¹⁰ KCAL / GWh	3.02	*10 ¹⁰ KCAL		
TOTAL					10,676.16	*10 ¹⁰ KCAL		
2.3 RAIL								
KEROSENE	0.02	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	0.02	*10 ¹⁰ KCAL		
DIESEL OIL	40.75	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	34.07	*10 ¹⁰ KCAL		
FUEL OIL	2.14	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	1.87	*10 ¹⁰ KCAL		
ELECTRICITY	843.97	GWh	0.0860	*10 ¹⁰ KCAL / GWh	72.58	*10 ¹⁰ KCAL		
TOTAL					108.53	*10 ¹⁰ KCAL		
2.4 INTERNAL NAVIGATION								
DIESEL OIL	110.67	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	92.52	*10 ¹⁰ KCAL		
FUEL OIL	222.12	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	194.13	*10 ¹⁰ KCAL		
ELECTRICITY	20.71	GWh	0.0860	*10 ¹⁰ KCAL / GWh	1.78	*10 ¹⁰ KCAL		
TOTAL					288.43	*10 ¹⁰ KCAL		
3 RESIDENTIAL AND COMMERCIAL SECTOR								
3.1 COMMERCE AND PUBLIC SERVICE								
LPG	71.20	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	80.15	*10 ¹⁰ KCAL		
KEROSENE	15.51	*10 ³ KL	0.8075	*10 ¹⁰ KCAL / *10 ³ KL	12.52	*10 ¹⁰ KCAL		
DIESEL OIL	488.32	*10 ³ KL	0.8360	*10 ¹⁰ KCAL / *10 ³ KL	408.23	*10 ¹⁰ KCAL		
FUEL OIL	1,100.89	*10 ³ KL	0.8740	*10 ¹⁰ KCAL / *10 ³ KL	962.18	*10 ¹⁰ KCAL		
OTHER PETROLEUM PRODUCTS	261.72	*10 ³ KLOE	0.8550	*10 ¹⁰ KCAL / *10 ³ KLOE	223.77	*10 ¹⁰ KCAL		
TOWN GAS	214.67	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	191.27	*10 ¹⁰ KCAL		
ELECTRICITY	40,064.40	GWh	0.0860	*10 ¹⁰ KCAL / GWh	3,445.54	*10 ¹⁰ KCAL		
TOTAL					5,323.66	*10 ¹⁰ KCAL		
3.2 RESIDENTIAL								
LPG	1,065.59	*10 ³ MT	1.1257	*10 ¹⁰ KCAL / *10 ³ MT	1,199.53	*10 ¹⁰ KCAL		
TOWN GAS	778.79	*10 ⁶ CM	0.8910	*10 ¹⁰ KCAL / *10 ⁶ CM	693.90	*10 ¹⁰ KCAL		
ELECTRICITY	39,146.78	GWh	0.0860	*10 ¹⁰ KCAL / GWh	3,366.62	*10 ¹⁰ KCAL		
TOTAL					5,260.05	*10 ¹⁰ KCAL		

Original Table (Energy Price) of Chines Taipei in 2003
Year: 2003

Chines Taipei	Unit	Price	Note
IMPORT CIF PRICES			
COAL			
HARD COAL			
STEAM COAL	USD/MT	33.92	CIF
COKING COAL	USD/MT	53.49	CIF
SUBBITUMINOUS COAL			
CRUDE OIL	USD/bbl	28.18	FOB
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
A HEAVY OIL			
C FUEL OIL			
NATURAL GAS (LNG)	USD/MT	284.93	CIF
WHOLESALE PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS	NTD/CM	9.38	
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	NTD/L	17.72	
JET FUEL			
KEROSENE	NTD/L	17.50	
DIESEL OIL	NTD/L	13.02	
A HEAVY OIL	NTD/KL	7,750.00	
C FUEL OIL			
LPG	NTD/Kg	15.60	
CONSUMER PRICES			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS	NTD/CM	8.74	
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	NTD/L	20.30	
KEROSENE	NTD/L	17.50	
DIESEL OIL	NTD/L	14.90	
A HEAVY OIL			
LPG	NTD/Kg	14.00	
ELECTRICITY (AVERAGE)(*1)	NTD/KWH	2.07	
INDUSTRIAL USERS (*1)	NTD/KWH	1.83	
COMMERCIAL USERS (*1)			
RESIDENTIAL USERS (LIGHTING) (*1)	NTD/KWH	2.54	

Original Table (Quarterly) of Chinese Taipei in 2004

Coal

Unit: 1,000 ton

		Production	Imports	Exports	Stock Changes
2004	JAN.	-	4,392	-	140
	FEB.	-	4,790	-	524
	MAR.	-	5,037	-	561
	1st quarter	-	14,219	-	1,224
	APR.	-	5,057	-	548
	MAY.	-	5,208	-	267
	JUN.	-	5,880	-	871
	2nd quarter	-	16,146	-	1,686
	JUL.	-	6,246	-	1,016
	AUG.	-	4,451	-	-807
	SEP.	-	5,120	-	54
	3rd quarter	-	15,816	-	263
	OCT.	-	5,290	-	299
	NOV.	-	4,281	-	-342
	DEC.	-	4,881	-	368
	4th quarter	-	14,452	-	325
	-	60,634	-	3,499	

Oil

Unit: 1,000kL

		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	5	4,502		-259	768	1,022	-958
	FEB.	5	5,399		446	941	1,154	423
	MAR.	5	4,575		-425	771	1,450	-385
	1st quarter	15	14,475		-238	2,480	3,627	-920
	APR.	3	4,725		497	1,072	1,371	-29
	MAY.	3	5,390		2	907	1,490	208
	JUN.	3	3,964		-471	940	1,164	6
	2nd quarter	9	14,079		28	2,919	4,025	185
	JUL.	3	5,237		850	692	1,325	-349
	AUG.	3	5,105		6	600	1,354	77
	SEP.	3	4,732		-143	935	1,145	350
	3rd quarter	9	15,075		713	2,227	3,824	78
	OCT.	3	5,260		95	683	1,457	103
	NOV.	3	4,431		-257	523	1,417	-408
	DEC.	4	5,126		115	1,104	1,209	383
	4th quarter	11	14,817		-47	2,310	4,083	78
		45	58,446	-	456	9,936	15,559	-579

Original Table (Quarterly) of Chinese Taipei in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000m ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	86,044	479,147	-	30,046	
	FEB.	89,457	473,111	-	49,794	
	MAR.	87,465	709,216	-	-50,750	
	1st quarter	262,966	1,661,474	-	29,090	
	APR.	66,944	785,542	-	-22,889	
	MAY.	61,748	793,665	-	-18,286	
	JUN.	55,946	788,940	-	12,816	
	2nd quarter	184,638	2,368,147	-	-28,359	
	JUL.	60,487	872,687	-	2,955	
	AUG.	55,715	867,766	-	20,185	
	SEP.	51,956	783,462	-	33,748	
	3rd quarter	168,158	2,523,915	-	56,888	
	OCT.	52,257	715,630	-	-19,059	
	NOV.	56,080	708,858	-	-37,265	
	DEC.	56,941	1,019,006	-	253,155	
	4th quarter	165,278	2,443,494	-	196,831	
		781,040	8,997,030	-	254,450	

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	15,562	8,470	462	3,508	3,123	-	-
	FEB.	15,324	8,617	550	3,101	3,056	-	-
	MAR.	17,057	9,819	578	3,270	3,390	-	-
	1st quarter	47,944	26,906	1,590	9,879	9,569	-	-
	APR.	17,122	10,282	548	2,939	3,353	-	-
	MAY.	19,478	11,822	619	3,648	3,389	-	-
	JUN.	19,641	11,856	604	3,597	3,584	-	-
	2nd quarter	56,242	33,960	1,772	10,184	10,325	-	-
	JUL.	20,921	12,945	571	3,691	3,714	-	-
	AUG.	21,055	13,188	612	3,569	3,686	-	-
	SEP.	19,506	12,074	573	3,113	3,745	-	-
	3rd quarter	61,482	38,207	1,756	10,373	11,146	-	-
	OCT.	18,083	10,728	475	2,955	3,925	-	-
	NOV.	17,365	10,201	456	2,976	3,732	-	-
	DEC.	17,238	9,733	489	3,123	3,893	-	-
	4th quarter	52,686	30,662	1,420	9,054	11,550	-	-
		218,353	129,735	6,538	39,490	42,590	-	-

3.19 Thailand

Energy Balance Table of Thailand in 2003

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	5,520	-	7,736	-	-	-	-	-	-
2 Import	4,500	43	39,082	867	105	-	35	-	526
3 Export	-	-	-3,092	-4,901	-833	-	-460	-91	-1,869
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-353	-	1,949	-613	-26	-	31	-460	317
6 Total Primary Energy Supply	9,667	43	45,674	-4,647	-754	-	-394	-551	-1,026
7 Public Electricity	-4,459	-	-	-715	-	-	-	-	-45
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	498	1,941	-	-	-	-	-
10 Petroleum Refineries	-	-	-43,396	34,381	6,496	-	3,496	581	16,305
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-170	-	-	-	-	-	-
13 Discrepancy	-217	-	0	249	0	-	0	0	0
14 Total Final Energy Consumption	4,991	43	2,607	31,208	5,742	-	3,103	30	15,235
15 Industry Sector	4,991	43	-	4,503	19	-	-	21	976
16 Transport Sector	-	-	-	21,107	5,667	-	3,103	-	10,984
17 Other Sector	-	-	-	5,099	56	-	-	9	3,259
18 Agriculture	-	-	-	3,320	56	-	-	1	3,258
19 Residential & Commercial	-	-	-	1,778	-	-	-	8	1
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	2,607	476	-	-	-	-	-

Energy Balance Table of Thailand in 2002

	1	2	3	4	4.1	4.2	4.3	4.4	4.5
	Coal	Coal Products	Crude Oil	Petroleum Products	Mogas	Naphtha	Jet Fuel	Kerosene	Diesel Oil
1 Indigenous Production	5,742	-	6,280	-	-	-	-	-	-
2 Import	3,550	47	36,697	793	168	-	42	582	-
3 Export	-	-	-2,731	-5,512	-925	-	-760	-262	-2,029
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-34	-	1,650	-205	61	-	-13	-726	901
6 Total Primary Energy Supply	9,258	47	41,897	-4,925	-696	-	-731	-406	-1,128
7 Public Electricity	-4,375	-	-	-664	-	-	-	-	-41
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	496	1,883	-	-	-	-	-
10 Petroleum Refineries	-	-	-40,156	32,988	6,205	-	3,848	457	15,120
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-158	-	-	-	-	-	-
13 Discrepancy	0	-	0	192	0	-	0	0	0
14 Total Final Energy Consumption	4,883	47	2,079	29,474	5,509	-	3,117	51	13,951
15 Industry Sector	4,883	47	-	4,440	14	-	-	40	832
16 Transport Sector	-	-	-	19,811	5,441	-	3,117	-	10,136
17 Other Sector	-	-	-	4,782	54	-	-	11	2,983
18 Agriculture	-	-	-	3,044	54	-	-	1	2,982
19 Residential & Commercial	-	-	-	1,738	-	-	-	10	1
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	2,079	441	-	-	-	-	-

Energy Balance Table of Thailand in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	18,984	-	628	-	2	-	-	-	32,868
200	-	-	-	7,071	-	-	-	-	-	213	-	51,776
-741	-907	-	-	-	-	-	-	-	-	-25	-	-8,019
-	-	-	-	-	-	-	-	-	-	-	-	-
-456	-19	-	-	-	-	-	-	-	-	-	-	983
-997	-926	-	-	26,054	-	628	-	2	-	188	-	77,608
-670	-	-	-	-19,642	-	-628	-	-2	-	10,061	-	-15,385
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,941	-	-	-179	-	-	-	-	-	-	-	2,261
5,762	1,741	-	-	-	-	-	-	-	-	-	-	-9,015
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-3,916	-	-	-	-	-	-1,050	-	-5,136
0	249	-	-	-1	-	-	-	-	-	0	-	30
4,095	3,004	-	-	2,316	-	-	-	-	-	9,198	-	50,364
2,975	512	-	-	1,995	-	-	-	-	-	4,126	-	15,659
1,107	247	-	-	13	-	-	-	-	-	3	-	21,123
6	1,769	-	-	-	-	-	-	-	-	4,976	-	10,075
4	2	-	-	-	-	-	-	-	-	19	-	3,339
2	1,767	-	-	-	-	-	-	-	-	4,957	-	6,736
-	-	-	-	-	-	-	-	-	-	-	-	-
-	476	-	-	308	-	-	-	-	-	-	-	3,391

Energy Balance Table of Thailand in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	18,012	-	643	-	2	-	-	-	30,679
-	-	-	-	6,525	-	-	-	-	-	242	-	47,854
-729	-808	-	-	-	-	-	-	-	-	-23	-	-8,266
-	-	-	-	-	-	-	-	-	-	-	-	-
-397	-31	-	-	-	-	-	-	-	-	-	-	1,410
-1,126	-839	-	-	24,537	-	643	-	2	-	218	-	71,677
-623	-	-	-	-18,698	-	-643	-	-2	-	9,375	-	-15,007
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,883	-	-	-182	-	-	-	-	-	-	-	2,197
5,685	1,674	-	-	-	-	-	-	-	-	-	-	-7,168
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-3,910	-	-	-	-	-	-979	-	-5,046
0	192	-	-	20	-	-	-	-	-	0	-	212
3,936	2,910	-	-	1,767	-	-	-	-	-	8,615	-	46,865
3,085	470	-	-	1,762	-	-	-	-	-	3,933	-	15,064
846	270	-	-	6	-	-	-	-	-	3	-	19,819
5	1,729	-	-	-	-	-	-	-	-	4,679	-	9,461
4	3	-	-	-	-	-	-	-	-	17	-	3,061
1	1,727	-	-	-	-	-	-	-	-	4,662	-	6,401
-	-	-	-	-	-	-	-	-	-	-	-	-
-	441	-	-	-	-	-	-	-	-	-	-	2,520

Major Energy Indicators of Thailand

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	12,104	14,745	15,673	16,110	18,953	21,304	24,971	29,940	32,454
Indigenous Production	531	4,230	6,701	6,831	8,256	9,406	10,169	11,854	13,809
Import	12,012	10,591	9,393	9,535	11,359	12,112	15,766	18,968	19,352
Export	-16	-131	-442	-570	-477	-678	-713	-791	-949
Final Energy Consumption	9,272	11,575	11,955	12,721	14,295	16,225	19,222	22,218	23,606
Industry	2,759	2,847	3,043	3,048	3,451	3,915	4,825	5,917	6,539
Transport	4,278	5,953	6,360	6,820	7,875	8,914	10,169	11,474	11,910
Residential & Commercial	991	1,605	1,566	1,768	1,956	2,382	2,388	2,675	2,922
Agriculture	1,130	1,029	841	881	835	834	1,639	1,820	1,827
Coal, Coal Products									
Primary Energy Supply	445	786	1,589	1,627	2,094	2,271	2,763	3,828	4,466
Indigenous Production	408	667	1,401	1,508	1,932	2,049	2,592	3,603	4,193
Import	60	144	213	141	197	240	300	220	331
Export	-1	-	-	-	-1	-	-	-	-
Transformation Sector	-331	-485	-1,143	-1,163	-1,420	-1,463	-1,681	-2,472	-2,907
Power Generation	-331	-485	-1,143	-1,163	-1,420	-1,463	-1,681	-2,472	-2,907
Final Energy Consumption	114	301	446	464	674	808	1,082	1,356	1,559
Industry	114	301	446	464	674	808	1,082	1,356	1,559
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	7,745	7,988	8,134	8,502	8,949	9,085	11,249	12,220	12,425
Indigenous Production	14	1,111	1,732	1,706	1,584	1,832	1,904	2,112	2,210
Import	7,866	6,811	6,751	7,178	7,868	7,509	10,143	10,961	10,996
Export	-	-126	-403	-493	-445	-676	-704	-767	-916
Transformation Sector	-7,745	-7,988	-8,113	-8,479	-8,874	-9,064	-11,215	-12,189	-12,380
Petroleum Refineries	-7,736	-7,982	-8,141	-8,563	-8,849	-9,148	-11,180	-11,806	-12,440
Petroleum Products									
Primary Energy Supply	3,739	3,460	2,322	2,301	3,135	4,388	5,233	7,700	8,110
Import	4,020	3,575	2,367	2,151	3,258	4,326	5,268	7,731	7,974
Export	-14	-3	-37	-76	-29	-	-7	-21	-29
Transformation Sector	4,288	6,023	6,221	7,950	8,255	8,518	9,935	9,566	9,834
Power Generation	-2,982	-1,539	-856	-827	-550	-788	-1,171	-2,548	-3,034
Petroleum Refineries	7,270	7,533	6,645	8,247	8,324	8,786	10,764	11,490	11,943
Final Energy Consumption	8,027	9,483	9,587	10,251	11,419	12,906	15,168	17,267	17,944
Industry	2,090	1,602	1,619	1,623	1,764	1,933	2,302	2,753	2,932
Transport	4,278	5,953	6,360	6,820	7,875	8,914	10,169	11,474	11,910
Residential & Commercial	417	762	648	752	794	1,072	899	927	920
Agriculture	1,128	1,025	836	876	830	828	1,631	1,811	1,819
Natural Gas, Town Gas									
Primary Energy Supply	-	2,101	3,250	3,139	4,390	5,200	5,194	5,710	7,011
Indigenous Production	-	2,101	3,250	3,139	4,390	5,200	5,194	5,710	7,011
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-1,907	-3,072	-3,052	-4,350	-5,140	-5,080	-5,443	-6,651
Power Generation	-	-1,824	-2,388	-2,273	-3,504	-4,189	-4,292	-4,216	-5,359
Final Energy Consumption	-	194	178	87	40	60	114	267	360
Industry	-	194	178	87	40	60	114	266	360
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	1,241	1,808	1,984	2,126	2,464	2,792	3,217	3,799	4,276
Thermal	1,131	1,457	1,667	1,648	2,114	2,467	2,738	3,371	3,882
Hydro	109	351	318	478	350	325	479	428	394
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,131	1,597	1,723	1,895	2,141	2,430	2,824	3,297	3,698
Industry	555	750	800	874	973	1,114	1,327	1,542	1,688
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	574	843	918	1,016	1,162	1,310	1,489	1,747	2,002
Agriculture	2	4	5	5	5	6	8	8	8

Major Energy Indicators of Thailand (Continued)

											ktoe
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
35,680	40,384	45,080	51,659	57,710	60,353	58,103	60,921	63,255	67,035	71,677	77,608
14,813	15,901	17,586	18,485	21,411	24,926	25,658	26,823	28,559	28,926	30,679	32,868
22,267	25,882	28,245	33,750	41,782	41,347	36,703	39,319	40,086	45,399	47,854	51,776
-1,003	-977	-1,176	-1,174	-4,360	-5,800	-5,307	-5,862	-5,450	-7,557	-8,266	-8,019
25,964	29,223	33,086	37,561	41,862	42,183	39,336	40,667	41,557	44,069	46,865	50,364
7,426	8,705	10,418	11,944	13,400	12,516	10,992	12,461	12,833	13,762	15,064	15,659
12,653	14,581	16,336	18,761	20,094	21,398	19,031	19,168	18,828	18,805	19,819	21,123
3,480	4,066	4,087	4,735	5,169	5,614	5,641	5,358	5,731	6,040	6,401	6,736
1,897	1,618	1,576	1,574	1,786	1,494	1,897	2,180	2,180	2,874	3,061	3,339
4,794	5,378	6,120	7,064	8,643	8,716	7,332	7,989	7,838	8,898	9,305	9,710
4,426	4,631	5,174	5,524	6,314	6,868	6,131	5,752	5,196	5,697	5,742	5,520
342	659	957	1,515	2,478	2,053	1,027	2,048	2,655	3,140	3,597	4,543
-	-	-	-	-	-	-	-	-	-	-	-
-3,067	-2,848	-3,014	-3,406	-4,197	-4,745	-4,063	-4,077	-4,204	-4,480	-4,375	-4,459
-3,067	-2,848	-3,014	-3,406	-4,197	-4,745	-4,063	-4,077	-4,204	-4,480	-4,375	-4,459
1,727	2,531	3,106	3,658	4,446	3,971	3,268	3,912	3,660	4,418	4,930	5,034
1,713	2,524	3,106	3,658	4,443	3,970	3,267	3,912	3,660	4,418	4,930	5,034
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
15,432	18,092	20,883	24,901	33,321	38,500	37,544	39,024	39,400	40,273	41,897	45,674
2,521	2,554	2,716	2,550	2,947	3,409	3,652	3,955	5,159	5,492	6,280	7,736
13,792	16,096	18,610	22,840	31,686	36,419	34,239	35,184	34,062	35,923	36,697	39,082
-844	-617	-882	-715	-1,127	-1,185	-1,041	-728	-514	-1,925	-2,731	-3,092
-15,344	-17,969	-20,751	-24,771	-33,039	-38,095	-37,413	-37,738	-37,921	-38,141	-39,817	-43,067
-15,300	-17,905	-20,862	-24,871	-33,138	-38,281	-37,506	-37,901	-38,169	-38,446	-40,156	-43,396
7,550	8,147	8,311	9,230	3,534	-1,567	-2,793	-3,412	-4,361	-5,794	-4,925	-4,647
8,092	9,072	8,603	9,335	7,549	2,811	1,278	1,866	1,179	392	793	867
-155	-356	-289	-452	-3,225	-4,606	-4,253	-5,119	-4,919	-5,610	-5,512	-4,901
11,918	13,426	15,392	18,104	26,480	31,199	30,922	30,632	31,530	33,607	34,206	35,607
-3,565	-4,320	-4,920	-5,611	-5,918	-5,053	-4,339	-3,726	-2,344	-738	-664	-715
14,508	16,732	19,398	22,211	30,237	34,963	33,123	32,801	32,193	32,499	32,988	34,381
19,468	21,238	23,882	26,859	29,542	29,767	28,085	27,337	27,303	28,010	29,474	31,208
3,517	3,811	4,243	4,676	5,043	4,629	4,188	4,316	4,335	4,170	4,440	4,503
12,653	14,581	16,336	18,758	20,089	21,393	19,026	19,163	18,822	18,800	19,811	21,107
1,005	1,116	1,207	1,444	1,507	1,510	1,394	1,479	1,637	1,725	1,738	1,778
1,887	1,607	1,568	1,565	1,775	1,480	1,879	2,166	2,167	2,858	3,044	3,320
7,501	8,397	9,307	9,833	11,518	14,029	15,447	16,837	19,620	22,890	24,537	26,054
7,501	8,397	9,307	9,833	11,518	14,029	15,428	16,810	17,685	17,193	18,012	18,984
-	-	-	-	-	-	19	27	1,935	5,696	6,525	7,071
-	-	-	-	-	-	-	-	-	-	-	-
-7,060	-7,905	-9,754	-9,046	-10,578	-13,078	-14,555	-15,710	-18,164	-21,317	-22,790	-23,737
-5,672	-6,407	-7,290	-7,476	-8,466	-10,910	-11,479	-12,263	-14,106	-17,399	-18,698	-19,642
441	492	587	787	940	951	890	1,127	1,389	1,572	1,767	2,316
441	492	582	784	935	946	885	1,122	1,386	1,570	1,762	1,995
-	-	-	3	5	5	5	5	2	2	6	13
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
4,911	5,453	6,121	6,885	7,522	8,020	7,746	7,746	8,254	8,808	9,375	10,061
4,546	5,135	5,733	6,308	6,891	7,400	7,301	7,442	7,736	8,266	8,733	9,433
364	318	388	577	631	619	445	304	518	542	643	628
-	-	-	-	-	-	-	-	-	-	-	-
4,240	4,840	5,376	6,125	6,652	7,089	6,917	7,005	7,562	7,937	8,615	9,198
1,755	1,878	2,487	2,826	2,979	2,971	2,652	3,111	3,452	3,604	3,933	4,126
-	-	-	-	-	-	-	-	3	3	3	3
2,475	2,950	2,880	3,291	3,662	4,104	4,247	3,879	4,094	4,315	4,662	4,957
10	11	8	9	11	14	18	14	13	15	17	19

Major Economic Indicators of Thailand

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	46.72	50.38	51.15	51.95	52.80	53.69	54.62	55.60
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	52.19	65.02	68.04	71.80	78.64	89.09	99.95	111.11
Real Term (Billions of 1995 Price and 1995 PPP)	107.94	134.48	140.73	148.51	162.65	184.26	206.73	229.81
Nominal (Billions of Current USD)	32.35	41.80	38.90	43.10	50.54	61.67	72.25	85.34
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	1,117	1,291	1,330	1,382	1,489	1,659	1,830	1,999
Real Term (1995 Price and 1995 PPP)	2,310	2,669	2,751	2,859	3,081	3,432	3,785	4,134
Nominal (Current USD)	693	830	761	830	957	1,149	1,323	1,535
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	662.48	988.07	1,056.50	1,133.40	1,299.91	1,559.80	1,856.99	2,183.54
Household Final Consumption Expenditure, etc.	433.58	628.94	657.37	695.78	781.06	885.01	1,030.56	1,234.98
General Government Final Consumption Expenditure	81.43	130.10	142.92	144.56	147.22	156.71	176.80	205.35
Gross Fixed Capital Formation	183.99	282.60	287.00	292.19	359.27	478.53	642.88	881.76
Stock Change	9.07	8.62	11.40	1.04	3.08	29.82	8.30	21.21
Exports of Goods and Services	159.73	216.40	245.25	290.17	375.60	514.92	648.49	745.29
Imports of Goods and Services	201.18	258.56	274.07	267.13	368.32	536.60	696.10	909.46
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	913.73	1,138.35	1,191.25	1,257.18	1,376.85	1,559.80	1,749.95	1,945.37
Household Final Consumption Expenditure, etc.	607.23	712.97	723.20	748.90	813.78	885.01	984.18	1,110.93
General Government Final Consumption Expenditure	106.94	141.57	151.25	150.21	150.64	156.71	160.82	171.94
Gross Fixed Capital Formation	269.63	346.64	333.64	331.35	392.41	478.53	586.32	759.87
Stock Change	6.45	11.92	12.23	0.14	1.78	29.82	8.43	20.65
Exports of Goods and Services	195.23	262.34	288.02	332.42	404.91	514.92	625.83	709.65
Imports of Goods and Services	271.20	332.72	290.57	287.87	384.48	536.60	652.44	806.98
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	19.9	19.1	19.1	18.2	16.6	16.2	15.8	13.6
Industry	30.1	32.6	31.6	32.3	33.7	34.6	36.2	37.8
Services, etc.	50.0	48.3	49.4	49.5	49.8	49.2	48.0	48.6
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	7.413	7.121	8.872	11.654	15.953	20.078	23.068
Imports, c.i.f.	9.214	10.398	9.242	9.173	13.023	20.285	25.771	33.045
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.902	-1.898	-1.332	0.388	-0.424	-2.074	-2.916	-6.751
Current Account	-2.076	-2.109	-1.537	0.247	-0.366	-1.654	-2.498	-7.281
Overall Balance	-0.206	0.529	0.105	0.714	0.945	2.596	5.029	3.235
Foreign Exchange Rate (THB/USD) *1	20.4764	23.6394	27.1589	26.2989	25.7228	25.2939	25.7020	25.5855
Purchasing Power Parity (THB/International Dollar) *1	10.5544	10.0591	9.9208	9.8334	10.0475	10.3033	10.5674	10.7632
Price Indices								
GDP Deflator (1988=100) *3	72.5	86.8	88.7	90.2	94.4	100.0	106.1	112.2
Wholesale Price Index (2000=100) *2	52.0	56.8	56.8	56.6	59.9	64.9	67.8	70.2
Consumer Price Index (2000=100) *2	41.8	51.9	53.1	54.1	55.5	57.6	60.7	64.3
Growth Rate (%) *3								
Real GDP	5.17	5.75	4.65	5.53	9.52	13.29	12.19	11.17
Population	2.21	1.70	1.52	1.58	1.63	1.68	1.73	1.79
Price								
Wholesale Price Index	20.1	-3.1	0.0	-0.4	5.9	8.2	4.6	3.5
Consumer Price Index	19.7	0.9	2.4	1.8	2.5	3.8	5.4	5.9

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

Major Economic Indicators of Thailand (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
56.45	57.19	57.80	58.27	58.61	58.98	59.37	59.79	60.25	60.73	61.18	61.61	62.01
120.62	130.37	141.13	153.81	168.02	177.93	175.49	157.05	164.03	171.83	175.55	184.91	197.62
249.48	269.65	291.89	318.13	347.51	368.02	362.97	324.83	339.27	355.39	363.09	382.46	752.74
98.23	111.45	125.01	144.31	168.02	181.95	150.89	111.86	122.63	122.73	115.54	126.77	142.95
2,137	2,280	2,442	2,640	2,867	3,017	2,956	2,627	2,723	2,829	2,869	3,001	3,187
4,419	4,715	5,050	5,459	5,929	6,240	6,114	5,432	5,631	5,852	5,934	6,207	6,591
1,740	1,949	2,163	2,476	2,867	3,085	2,542	1,871	2,035	2,021	1,888	2,058	2,305
2,506.64	2,830.91	3,165.22	3,629.34	4,186.21	4,611.04	4,732.61	4,626.45	4,637.08	4,922.73	5,133.50	5,446.04	5,930.36
1,378.06	1,550.50	1,730.52	1,958.73	2,225.74	2,479.83	2,586.96	2,505.31	2,595.11	2,762.93	2,941.01	3,113.52	3,360.62
231.13	280.20	315.98	354.39	414.40	469.52	476.71	511.69	533.04	557.81	581.12	603.65	630.38
1,043.55	1,111.28	1,252.92	1,450.22	1,719.12	1,892.92	1,598.63	1,035.45	965.90	1,081.42	1,181.32	1,243.15	1,425.27
30.33	20.06	13.48	10.72	43.04	35.24	-5.47	-89.47	-15.29	42.74	55.77	56.61	57.93
901.49	1,046.66	1,201.51	1,410.79	1,751.67	1,809.91	2,272.12	2,723.95	2,703.31	3,287.28	3,380.75	3,499.00	3,886.57
1,065.49	1,160.17	1,335.68	1,586.56	2,033.89	2,099.23	2,205.12	1,988.91	2,120.35	2,862.31	3,047.57	3,134.27	3,485.27
2,111.86	2,282.57	2,470.91	2,692.97	2,941.74	3,115.34	3,072.62	2,749.68	2,871.98	3,008.40	3,073.60	3,237.56	3,460.04
1,171.16	1,273.03	1,380.21	1,486.11	1,601.69	1,694.44	1,671.18	1,478.79	1,542.78	1,623.72	1,690.64	1,779.85	1,894.43
182.59	194.28	204.21	220.94	232.46	260.47	253.10	262.96	271.03	277.13	284.03	289.07	294.84
856.23	913.05	997.75	1,111.15	1,236.09	1,323.01	1,051.26	585.30	566.41	597.44	604.22	643.75	720.22
28.45	17.80	13.81	8.27	42.89	22.51	-0.75	-69.30	-6.69	25.64	35.78	36.40	45.44
817.09	929.91	1,050.66	1,200.67	1,386.11	1,309.53	1,404.26	1,519.99	1,657.26	1,947.08	1,865.08	2,088.69	2,235.57
911.39	993.13	1,124.47	1,286.68	1,543.60	1,534.26	1,360.92	1,066.32	1,178.17	1,497.67	1,415.36	1,609.15	1,732.31
13.4	13.0	10.3	9.9	9.4	9.3	9.3	10.3	10.1	10.3	10.4	10.0	10.2
39.0	39.7	41.9	42.4	43.0	43.4	43.3	42.0	44.1	44.4	44.1	44.8	45.8
47.6	47.3	47.8	47.7	47.6	47.3	47.4	47.7	45.8	45.3	45.5	45.2	44.0
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
28.428	32.472	36.969	45.261	56.439	55.721	57.374	54.456	58.440	69.057	65.113	68.768	80.522
37.569	40.686	46.077	54.459	70.786	72.332	62.854	42.971	50.342	61.924	62.058	64.658	75.809
-5.989	-4.161	-4.297	-3.726	-7.968	-9.488	1.572	16.238	14.013	11.701	8.543	9.081	11.175
-7.571	-6.303	-6.364	-8.085	-13.554	-14.692	-3.021	14.243	12.428	9.313	6.192	7.014	7.953
4.618	3.029	3.907	4.169	7.159	2.167	-18.250	-2.696	1.388	-1.806	2.276	5.537	0.518
25.5168	25.4001	25.3196	25.1500	24.9152	25.3427	31.3643	41.3594	37.8137	40.1118	44.4319	42.9601	41.4846
10.9733	11.1223	11.3187	11.6520	12.0462	12.2221	12.4595	13.3431	12.7177	12.7650	12.7138	12.6145	12.5912
118.7	124.0	128.1	134.8	142.3	148.0	154.0	168.3	161.5	163.6	167.0	168.2	171.4
75.0	75.1	74.8	77.8	84.1	85.7	90.0	101.0	96.2	100.0	102.5	104.2	108.4
68.0	70.7	73.1	76.8	81.3	86.0	90.8	98.2	98.5	100.0	101.6	102.3	104.1
8.56	8.08	8.25	8.99	9.24	5.90	-1.37	-10.51	4.45	4.75	2.17	5.33	6.87
1.55	1.30	1.06	0.82	0.58	0.62	0.67	0.71	0.76	0.80	0.75	0.70	0.65
6.8	0.2	-0.4	4.0	8.2	1.8	5.1	12.2	-4.7	3.9	2.5	1.7	4.0
5.7	4.1	3.4	5.1	5.8	5.8	5.6	8.1	0.3	1.6	1.6	0.6	1.8

Original Table (Energy Demand and Supply) of Thailand in 2003

Year:2003

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	18,843.00	kt	0.2929	TOE/t	5,519.66	KTOE
LIGNITE	18,843.00	kt	0.2929	TOE/t	5,519.66	KTOE
CRUDE OIL AND NGL/CONDENSATE	9,243.00	kt	0.8369	TOE/t	7,735.71	KTOE
CRUDE OIL	5,561.00	MI.	0.8680	TOE/kL	4,826.94	KTOE
NGL/CONDENSATE	3,682.00	MI.	0.7900	TOE/kL	2,908.78	KTOE
NATURAL GAS AND LNG	765,510.00	MMscf	0.0248	KTOE/MMscf	18,983.50	KTOE
NATURAL GAS	765,510.00	MMscf	0.0248	KTOE/MMscf	18,983.50	KTOE
HYDRO POWER	7,299.00	GWh	0.0860	KTOE/GWh	627.71	KTOE
GEOTHERMAL POWER	2.00	GWh	0.8600	KTOE/GWh	1.72	KTOE
TOTAL PRODUCTION					32,868.31	KTOE
OPENING STOCKS						
TOTAL OPENING STOCKS						KTOE
CLOSING STOCKS						
TOTAL CLOSING STOCKS						KTOE
STOCK CHANGE						
COAL	-879.00	kt	0.4019	TOE/t	-353.25	KTOE
LIGNITE	-879.00	kt	0.4019	TOE/t	-353.25	KTOE
CRUDE OIL AND NGL/CONDENSATE	2,220.00	MI.	0.8782	TOE/kL	1,949.50	KTOE
CRUDE OIL	2,509.00	MI.	0.8680	TOE/kL	2,177.81	KTOE
NGL/CONDENSATE	-289.00	MI.	0.7900	TOE/kL	-228.31	KTOE
LPG	-30.00	MI.	0.6360	TOE/kL	-19.08	KTOE
MOGAS	-34.00	MI.	0.7520	TOE/kL	-25.57	KTOE
JET FUEL	38.00	MI.	0.8250	TOE/kL	31.35	KTOE
KEROSENE	-558.00	MI.	0.8250	TOE/kL	-460.35	KTOE
DIESEL OIL	364.00	MI.	0.8700	TOE/kL	316.68	KTOE
FUEL OIL	-480.00	MI.	0.9500	TOE/kL	-456.00	KTOE
TOTAL STOCK CHANGE					983.28	KTOE
IMPORTS						
COAL	7,042.00	kt	0.6391	TOE/t	4,500.39	KTOE
HARD COAL	6,509.00	kt	0.6300	TOE/t	4,100.64	KTOE
STEAM COAL	6,509.00	kt	0.6300	TOE/t	4,100.64	KTOE
ANTHRACITE	533.00	kt	0.7500	TOE/t	399.75	KTOE
COKE	65.00	kt	0.6600	TOE/t	42.90	KTOE
CRUDE OIL AND NGL/CONDENSATE	45,025.00	MI.	0.8680	TOE/kL	39,081.61	KTOE
CRUDE OIL	45,025.00	MI.	0.8680	TOE/kL	39,081.61	KTOE
MOGAS	139.00	MI.	0.7520	TOE/kL	104.53	KTOE
JET FUEL	43.00	MI.	0.8250	TOE/kL	35.48	KTOE
DIESEL OIL	605.00	MI.	0.8700	TOE/kL	526.35	KTOE
FUEL OIL	211.00	MI.	0.9500	TOE/kL	200.45	KTOE
NATURAL GAS AND LNG	285,125.00	MMscf	0.0248	KTOE/MMscf	7,070.67	KTOE
NATURAL GAS	285,125.00	MMscf	0.0248	KTOE/MMscf	7,070.67	KTOE
ELECTRICITY	2,479.00	GWh	0.0860	KTOE/GWh	213.19	KTOE
TOTAL IMPORTS					51,775.56	KTOE
EXPORTS						
CRUDE OIL AND NGL/CONDENSATE	3,567.00	MI.	0.8669	TOE/kL	3,092.40	KTOE
CRUDE OIL	3,519.00	MI.	0.8680	TOE/kL	3,054.48	KTOE
NGL/CONDENSATE	48.00	MI.	0.7900	TOE/kL	37.92	KTOE
LPG	1,426.00	MI.	0.6360	TOE/kL	906.94	KTOE
MOGAS	1,108.00	MI.	0.7520	TOE/kL	833.22	KTOE
JET FUEL	558.00	MI.	0.8250	TOE/kL	460.35	KTOE
KEROSENE	110.00	MI.	0.8250	TOE/kL	90.75	KTOE
DIESEL OIL	2,148.00	MI.	0.8700	TOE/kL	1,868.75	KTOE
FUEL OIL	780.00	MI.	0.9500	TOE/kL	740.99	KTOE
ELECTRICITY	296.00	GWh	0.0860	KTOE/GWh	25.46	KTOE
TOTAL EXPORTS					8,018.86	KTOE
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					77,608.30	KTOE
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
CRUDE OIL AND NGL/CONDENSATE	50,056.00	MI.	0.8669	TOE/kL	43,395.78	KTOE
CRUDE OIL	49,380.00	MI.	0.8680	TOE/kL	42,861.74	KTOE
NGL/CONDENSATE	676.00	MI.	0.7900	TOE/kL	534.04	KTOE
GAS PROCESSING						
NATURAL GAS	454,695.00	MMscf	0.0248	KTOE/MMscf	11,275.75	KTOE
POWER GENERATION (PUBLIC UTILITIES)						
COAL	16,353.00	kt	0.2727	TOE/t	4,458.87	KTOE
HARD COAL	729.00	kt	0.6300	TOE/t	459.27	KTOE
STEAM COAL	729.00	kt	0.6300	TOE/t	459.27	KTOE
ANTHRACITE	169.00	kt	0.7500	TOE/t	126.75	KTOE
LIGNITE	15,455.00	kt	0.2506	TOE/t	3,872.85	KTOE
DIESEL OIL	52.00	MI.	0.8700	TOE/kL	45.24	KTOE
FUEL OIL	705.00	MI.	0.9500	TOE/kL	669.75	KTOE
NATURAL GAS AND LNG	796,614.00	MMscf	0.0247	KTOE/MMscf	19,642.27	KTOE
NATURAL GAS	796,614.00	MMscf	0.0247	KTOE/MMscf	19,642.27	KTOE
HYDRO POWER	7,299.00	GWh	0.0860	KTOE/GWh	627.71	KTOE
GEOTHERMAL POWER	2.00	GWh	0.8600	KTOE/GWh	1.72	KTOE
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						

Original Table (Energy Demand and Supply) of Thailand in 2003 (Continued)

Year:2003

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COAL TRANSFORMATION						
REFINING						
LPG	2,737.00	ML	0.6360	TOE/kL	1,740.73	KTOE
MOGAS	8,638.00	ML	0.7520	TOE/kL	6,495.77	KTOE
JET FUEL	4,238.00	ML	0.8250	TOE/kL	3,496.36	KTOE
KEROSENE	704.00	ML	0.8250	TOE/kL	580.80	KTOE
DIESEL OIL	18,742.00	ML	0.8700	TOE/kL	16,305.47	KTOE
FUEL OIL	6,065.00	ML	0.9500	TOE/kL	5,761.71	KTOE
GAS RECOVERING						
GAS PROCESSING						
PROCESSED GAS	454,695.00	MMscf	0.0244	KTOE/MMscf	11,096.77	KTOE
NGL	631.00	ML	0.7900	TOE/kL	498.49	KTOE
LPG	3,052.00	ML	0.6360	TOE/kL	1,941.07	KTOE
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	109,684.00	GWh	0.0860	KTOE/GWh	9,432.82	KTOE
HYDRO POWER	7,299.00	ML	0.0860	KTOE/GWh	627.71	KTOE
GEOTHERMAL POWER	2.00	GWh	0.0860	KTOE/GWh	0.17	KTOE
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
CRUDE OIL AND NGL/CONDENSATE	196.00	ML	0.8680	TOE/kL	170.13	KTOE
CRUDE OIL	196.00	ML	0.8680	TOE/kL	170.13	KTOE
NATURAL GAS AND LNG	159,137.00	MMscf	0.0246	KTOE/MMscf	3,915.84	KTOE
NATURAL GAS	159,137.00	MMscf	0.0246	KTOE/MMscf	3,915.84	KTOE
ELECTRICITY	12,207.00	GWh	0.0860	KTOE/GWh	1,049.80	KTOE
TOTAL LOSSES AND OWN USE					5,135.77	KTOE
FINAL ENERGY CONSUMPTION TOTAL						
COAL	8,653.00	kt	0.5768	TOE/t	4,991.27	KTOE
HARD COAL	5,780.00	kt	0.6300	TOE/t	3,641.37	KTOE
STEAM COAL	5,780.00	kt	0.6300	TOE/t	3,641.37	KTOE
ANTHRACITE	364.00	kt	0.7500	TOE/t	273.00	KTOE
LIGNITE	2,509.00	kt	0.4292	TOE/t	1,076.95	KTOE
COKE	65.00	kt	0.6600	TOE/t	42.90	KTOE
LPG	3,975.00	ML	0.6360	TOE/kL	2,528.10	KTOE
MOGAS	7,635.00	ML	0.7520	TOE/kL	5,741.51	KTOE
JET FUEL	3,761.00	ML	0.8250	TOE/kL	3,102.83	KTOE
KEROSENE	36.00	ML	0.8250	TOE/kL	29.70	KTOE
DIESEL OIL	17,511.00	ML	0.8700	TOE/kL	15,234.51	KTOE
FUEL OIL	4,311.00	ML	0.9500	TOE/kL	4,095.42	KTOE
NATURAL GAS AND LNG	82,280.00	MMscf	0.0244	KTOE/MMscf	2,008.03	KTOE
NATURAL GAS	82,280.00	MMscf	0.0244	KTOE/MMscf	2,008.03	KTOE
ELECTRICITY	106,959.00	GWh	0.0860	KTOE/GWh	9,198.47	KTOE
TOTAL					46,972.75	KTOE
AGRICULTURE						
LPG	3.00	ML	0.6360	TOE/kL	1.91	KTOE
MOGAS	74.00	ML	0.7520	TOE/kL	55.65	KTOE
KEROSENE	1.00	ML	0.8250	TOE/kL	0.83	KTOE
DIESEL OIL	3,745.00	ML	0.8700	TOE/kL	3,258.14	KTOE
FUEL OIL	4.00	ML	0.9500	TOE/kL	3.80	KTOE
ELECTRICITY	223.00	GWh	0.0860	KTOE/GWh	19.18	KTOE
TOTAL					3,339.50	KTOE
RESIDENTIAL COMMERCIAL						
LPG	2,779.00	ML	0.6360	TOE/kL	1,767.44	KTOE
KEROSENE	10.00	ML	0.8250	TOE/kL	8.25	KTOE
DIESEL OIL	1.00	ML	0.8700	TOE/kL	0.87	KTOE
FUEL OIL	2.00	ML	0.9500	TOE/kL	1.90	KTOE
ELECTRICITY	57,640.00	GWh	0.0860	KTOE/GWh	4,957.04	KTOE
TOTAL					6,735.50	KTOE
OTHERS						
TOTAL						KTOE
INDUSTRY						
COAL	8,653.00	kt	0.5768	TOE/t	4,991.32	KTOE
HARD COAL	5,780.00	kt	0.6300	TOE/t	3,641.37	KTOE
STEAM COAL	5,780.00	kt	0.6300	TOE/t	3,641.37	KTOE
ANTHRACITE	364.00	kt	0.7500	TOE/t	273.00	KTOE
LIGNITE	2,509.00	kt	0.4292	TOE/t	1,076.95	KTOE
COKE	65.00	kt	0.6600	TOE/t	42.90	KTOE
LPG	805.00	ML	0.6360	TOE/kL	511.98	KTOE
MOGAS	25.00	ML	0.7520	TOE/kL	18.80	KTOE
KEROSENE	25.00	ML	0.8250	TOE/kL	20.63	KTOE
DIESEL OIL	1,122.00	ML	0.8700	TOE/kL	976.14	KTOE
FUEL OIL	3,132.00	ML	0.9500	TOE/kL	2,975.38	KTOE
NATURAL GAS AND LNG	81,760.00	MMscf	0.0244	KTOE/MMscf	1,995.34	KTOE
NATURAL GAS	81,760.00	MMscf	0.0244	KTOE/MMscf	1,995.34	KTOE
ELECTRICITY	47,981.00	GWh	0.0860	KTOE/GWh	4,126.37	KTOE
TOTAL					15,658.85	KTOE
TRANSPORT						
LPG	388.00	ML	0.6360	TOE/kL	246.77	KTOE
MOGAS	7,536.00	ML	0.7520	TOE/kL	5,667.07	KTOE
JET FUEL	3,761.00	ML	0.8250	TOE/kL	3,102.83	KTOE
DIESEL OIL	12,625.00	ML	0.8700	TOE/kL	10,983.70	KTOE
FUEL OIL	1,165.00	ML	0.9500	TOE/kL	1,106.74	KTOE

Original Table (Energy Demand and Supply) of Thailand in 2003 (Continued)

Year:2003

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NATURAL GAS AND LNG	520.00	MMscf	0.0244	KTOE/MMscf	12.69	KTOE
NATURAL GAS	520.00	MMscf	0.0244	KTOE/MMscf	12.69	KTOE
ELECTRICITY	34.00	GWh	0.0860	KTOE/GWh	2.92	KTOE
TOTAL					21,122.73	KTOE
NON-ENERGY						
CRUDE OIL AND NGL/CONDENSATE	3,300.00	ML	0.7900	TOE/kL	2,607.00	KTOE
NGL/CONDENSATE	3,300.00	ML	0.7900	TOE/kL	2,607.00	KTOE
LPG	749.00	ML	0.6360	TOE/kL	476.36	KTOE
NATURAL GAS AND LNG	12,604.00	MMscf	0.0244	KTOE/MMscf	307.60	KTOE
NATURAL GAS	12,604.00	MMscf	0.0244	KTOE/MMscf	307.60	KTOE
TOTAL NON-ENERGY USE					3,390.96	KTOE

ELECTRICITY GENERATING CAPACITY

At the time of 2003
unit: MW

THERMAL POWER	19,746	
COAL	N.A	
OIL	N.A	
GAS	N.A	
HYDRO POWER	2,973	
NUCLEAR POWER	-	
GEOHERMAL POWER	0	
OTHERS (WIND, TIDE, PHOTVOLTAIC)	0	
OTHERS (BIOMASS, MUNICIPAL WASTE)	-	
COGENERATION	2,085	
COAL	N.A	
OIL	N.A	
GAS	N.A	
OTHERS (BIOMASS, MUNICIPAL WASTE)	N.A	

REFINING CAPACITY

At the time of 2003
Unit

OPERATING RATE (*1)	%	77
CRUDE DISTILLATION CAPACITY	1000BD	1,037
VACUUM DISTILLATION CAPACITY	1000BD	254
CATALYTIC HYDROCRACKING CAPACITY	1000BD	86
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	215
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	-
CATALYTIC CRACKING CAPACITY	1000BD	50
CATALYTIC REFORMING CAPACITY	1000BD	141

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003
unit : KTOE

	1. FUEL WOOD	2. CHARCOAL	3. PADDY HU	4. BAGASSE	5. TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION	10,115	-	1,405	3,284	14,804
IMPORTS	0	17	-	-	17
EXPORTS	0	-3	-	-	-3
TOTAL	10,115	14	1,405	3,284	14,818
TRANSFORMATION (INPUT)	-6,622	2,343	-409	-379	-5,067
TRANSFORMATION (OUTPUT)	-	-	-	-	-
FINAL ENERGY CONSUMPTION					
AGRICULTURE	-	-	-	-	-
RESIDENTIAL COMMERCIAL	2,728	2,357	41	-	5,126
INDUSTRY	765	-	955	2,905	4,625
TRANSPORT	-	-	-	-	-
TOTAL	3,493	2,357	996	2,905	9,751

Original Table (Disaggregated Final Energy Demand) of Thailand in 2003

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL						
COAL	326.00	kt.	0.6687	TOE/t	218.00	KTOE
HARD COAL	212.00	kt.	0.6274	TOE/t	133.00	KTOE
STEAM COAL	212.00	kt.	0.6242	TOE/t	133.00	KTOE
ANTHRACITE	114.00	kt.	0.7431	TOE/t	85.00	KTOE
LIGNITE	-	kt.	0.5484	TOE/t	-	KTOE
COKE	35.00	kt.	0.6539	TOE/t	23.00	KTOE
LPG	100.00	ML	0.6301	TOE/kL	63.00	KTOE
DIESEL OIL	41.00	ML	0.8620	TOE/kL	35.00	KTOE
FUEL OIL	295.00	ML	0.9412	TOE/kL	278.00	KTOE
ELECTRICITY	5,112.00	Gwh	0.0852	KTOE/Gwh	436.00	KTOE
TOTAL					1,404.00	KTOE
1.2 CHEMICAL AND PETROCHEMICAL						
COAL	1,090.00	kt.	0.6275	TOE/t	684.00	KTOE
HARD COAL	1,024.00	kt.	0.6240	TOE/t	639.00	KTOE
STEAM COAL	1,024.00	kt.	0.6242	TOE/t	639.00	KTOE
ANTHRACITE	52.00	kt.	0.7431	TOE/t	39.00	KTOE
LIGNITE	14.00	kt.	0.4359	TOE/t	6.00	KTOE
COKE	28.00	kt.	0.6539	TOE/t	18.00	KTOE
LPG	220.00	ML	0.6301	TOE/kL	139.00	KTOE
MOGAS	3.00	ML	0.7451	TOE/kL	2.00	KTOE
KEROSENE	14.00	ML	0.8174	TOE/kL	11.00	KTOE
DIESEL OIL	182.00	ML	0.8620	TOE/kL	157.00	KTOE
FUEL OIL	279.00	ML	0.9412	TOE/kL	263.00	KTOE
NATURAL GAS/LNG	20,075.00	MMscf	0.0242	KTOE/MMscf	486.00	KTOE
NATURAL GAS	20,075.00	MMscf	0.0242	KTOE/MMscf	486.00	KTOE
ELECTRICITY	8,032.00	Gwh	0.0852	KTOE/Gwh	684.00	KTOE
OTHERS	295.00	kt.	0.3785	TOE/t	111.00	KTOE
TOTAL					3,878.00	KTOE
1.3 NON-FERROUS METALS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS						
COAL	6,312.00	kt.	0.5730	TOE/t	3,617.00	KTOE
HARD COAL	4,419.00	kt.	0.6243	TOE/t	2,759.00	KTOE
STEAM COAL	4,419.00	kt.	0.6242	TOE/t	2,759.00	KTOE
ANTHRACITE	194.00	kt.	0.7431	TOE/t	144.00	KTOE
LIGNITE	1,699.00	kt.	0.4359	TOE/t	714.00	KTOE
LPG	122.00	ML	0.6301	TOE/kL	77.00	KTOE
MOGAS	1.00	ML	0.7451	TOE/kL	1.00	KTOE
KEROSENE	2.00	ML	0.8174	TOE/kL	1.00	KTOE
DIESEL OIL	82.00	ML	0.8620	TOE/kL	71.00	KTOE
FUEL OIL	170.00	ML	0.9412	TOE/kL	160.00	KTOE
NATURAL GAS/LNG	43,800.00	MMscf	0.0242	KTOE/MMscf	1,059.00	KTOE
NATURAL GAS	43,800.00	MMscf	0.0242	KTOE/MMscf	1,059.00	KTOE
ELECTRICITY	5,697.00	Gwh	0.0852	KTOE/Gwh	485.00	KTOE
OTHERS	514.00	kt.	0.3734	TOE/t	192.00	KTOE
TOTAL					12,039.00	KTOE
1.5 PAPER, PULP AND PRINTING						
COAL	638.00	kt.	0.4718	TOE/t	301.00	KTOE
HARD COAL	124.00	kt.	0.6210	TOE/t	77.00	KTOE
STEAM COAL	124.00	kt.	0.6242	TOE/t	77.00	KTOE
LIGNITE	514.00	kt.	0.4355	TOE/t	224.00	KTOE
LPG	29.00	ML	0.6301	TOE/kL	18.00	KTOE
MOGAS	1.00	ML	0.7451	TOE/kL	1.00	KTOE
KEROSENE	1.00	ML	0.8174	TOE/kL	1.00	KTOE
DIESEL OIL	31.00	ML	0.8620	TOE/kL	27.00	KTOE
FUEL OIL	206.00	ML	0.9412	TOE/kL	194.00	KTOE
ELECTRICITY	1,783.00	Gwh	0.0852	KTOE/Gwh	152.00	KTOE
TOTAL					1,072.00	KTOE
1.6 OTHER INDUSTRIES						
COAL	285.00	kt.	0.4386	TOE/t	125.00	KTOE
STEAM COAL	-	kt.	0.6242	TOE/t	-	KTOE
ANTHRACITE	3.00	kt.	0.7431	TOE/t	2.00	KTOE
LIGNITE	282.00	kt.	0.4364	TOE/t	123.00	KTOE
COKE	2.00	kt.	0.6539	TOE/t	1.00	KTOE
LPG	333.00	ML	0.6301	TOE/kL	210.00	KTOE
MOGAS	19.00	ML	0.7451	TOE/kL	14.00	KTOE
KEROSENE	8.00	ML	0.8174	TOE/kL	7.00	KTOE
DIESEL OIL	659.00	ML	0.8620	TOE/kL	568.00	KTOE

Original Table (Disaggregated Final Energy Demand) of Thailand in 2003 (Continued)

2003						
Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	2,138.00	ML	0.9412	TOE/kL	2,012.00	KTOE
NATURAL GAS/LNG	17,885.00	MMscf	0.0242	KTOE/MMscf	432.00	KTOE
NATURAL GAS	17,885.00	MMscf	0.0242	KTOE/MMscf	432.00	KTOE
ELECTRICITY	27,357.00	Gwh	0.0852	KTOE/Gwh	2,332.00	KTOE
OTHERS	20,303.00	kt.	0.2129	TOE/t	4,322.00	KTOE
TOTAL					10,148.00	KTOE
2 TRANSPORTATION SECTOR						
2.1 AIR						
JET FUEL	3,761.00	ML	0.8174	TOE/kL	3,074.00	KTOE
TOTAL					3,074.00	KTOE
2.2 ROAD						
LPG	388.00	ML	0.6301	TOE/kL	245.00	KTOE
MOGAS	7,536.00	ML	0.7451	TOE/kL	5,615.00	KTOE
DIESEL OIL	12,339.00	ML	0.8620	TOE/kL	10,636.00	KTOE
NATURAL GAS for VEHICLES (NGV)	520.00	MMscf	0.0242	KTOE/MMscf	13.00	KTOE
TOTAL					16,509.00	KTOE
2.3 RAIL						
DIESEL OIL	122.00	ML	0.8620	TOE/kL	105.00	KTOE
ELECTRICITY	34.00	Gwh	0.0852	KTOE/Gwh	3.00	KTOE
TOTAL					108.00	KTOE
2.4 INTERNAL NAVIGATION						
DIESEL OIL	164.00	ML	0.8620	TOE/kL	140.00	KTOE
FUEL OIL	1,165.00	ML	0.9412	TOE/kL	1,096.00	KTOE
TOTAL					1,236.00	KTOE
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
LPG	1,130.00	ML	0.6301	TOE/kL	712.00	KTOE
KEROSENE	2.00	ML	0.8174	TOE/kL	2.00	KTOE
DIESEL OIL	1.00	ML	0.8620	TOE/kL	1.00	KTOE
FUEL OIL	2.00	ML	0.9412	TOE/kL	2.00	KTOE
ELECTRICITY	34,141.00	Gwh	0.0852	KTOE/Gwh	2,909.00	KTOE
TOTAL					3,626.00	KTOE
3.2 RESIDENTIAL						
LPG	1,649.00	ML	0.6301	TOE/kL	1,039.00	KTOE
KEROSENE	8.00	ML	0.8174	TOE/kL	6.00	KTOE
ELECTRICITY	23,499.00	Gwh	0.0852	KTOE/Gwh	2,002.00	KTOE
OTHERS	10,776.00	kt.	0.4757	TOE/t	5,126.00	KTOE
TOTAL					8,173.00	KTOE

Original Table (Energy Price) of Thailand in 2003

Year: 2003

Thailand	Unit	Price	Note
IMPORT CIF PRICES			
COAL	US\$/TON	31.44	
STEAM COAL			
COKING COAL			
CRUDE OIL	US\$/bbl	29.32	
PETROLEUM PRODUCTS	US\$/bbl	34.06	
LPG	Baht/kg	11.43	
NAPHTHA	-	-	
MOGAS	Baht/litre	8.79	
JET FUEL	-	-	
KEROSENE	Baht/litre	8.60	
DIESEL OIL	Baht/litre	8.79	
FUEL OIL	Baht/litre	7.25	
NATURAL GAS	US\$/1,000 scf	3.34	
WHOLESALE PRICES			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	Baht/litre	14.71	
JET FUEL	-	-	
KEROSENE	Baht/litre	13.09	
DIESEL OIL	Baht/litre	12.78	
FUEL OIL	Baht/litre	8.09	
LPG	Baht/kg	11.32	
ELECTRICITY (INDUSTRY)	-	-	
ELECTRICITY (COMMERCIAL)	-	-	
CONSUMER PRICES			
COAL			
STEAM COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	Baht/litre	16.13	
KEROSENE	Baht/litre	16.63	
DIESEL OIL	Baht/litre	13.88	
LPG	Baht/kg	14.88	
ELECTRICITY (RESIDENTIAL)	Baht/kWh	2.60	
ELECTRICITY (INDUSTRY)	Baht/kWh	2.46	
ELECTRICITY (COMMERCIAL)	Baht/kWh	2.50	

Original Table (Quarterly) of Thailand in 2004

Coal		Unit: kt			
		Production	Imports	Exports	Stock Changes
2004	JAN.	1,688	426	-	N.A
	FEB.	1,659	419	-	N.A
	MAR.	1,633	353	-	N.A
	1st quarter	4,980	1,198	-	N.A
	APR.	1,414	617	-	N.A
	MAY.	1,901	654	-	N.A
	JUN.	1,807	498	-	N.A
	2nd quarter	5,122	1,769	-	N.A
	JUL.	1,607	764	-	N.A
	AUG.	1,699	596	-	N.A
	SEP.	1,700	679	-	N.A
	3rd quarter	5,006	2,039	-	N.A
	OCT.	1,695	854	-	N.A
	NOV.	1,548	643	-	N.A
	DEC.	1,696	1,032	-	N.A
	4th quarter	4,939	2,529	-	N.A
	20,047	7,535	-	-	

Oil		Unit: ML						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	688	4,634	285	N.A	96	448	N.A
	FEB.	759	3,535	114	N.A	247	482	N.A
	MAR.	794	4,223	331	N.A	485	518	N.A
	1st quarter	2,240	12,392	730	N.A	828	1,448	N.A
	APR.	697	3,979	288	N.A	241	457	N.A
	MAY.	789	4,080	219	N.A	275	440	N.A
	JUN.	785	4,199	239	N.A	214	464	N.A
	2nd quarter	2,271	12,258	746	N.A	730	1,361	N.A
	JUL.	771	4,090	362	N.A	29	637	N.A
	AUG.	790	4,456	303	N.A	127	580	N.A
	SEP.	804	3,900	308	N.A	17	620	N.A
	3rd quarter	2,365	12,446	973	N.A	173	1,837	N.A
	OCT.	803	4,197	240	N.A	8	856	N.A
	NOV.	809	4,778	312	N.A	20	647	N.A
	DEC.	760	4,550	287	N.A	9	744	N.A
	4th quarter	2,371	13,525	839	N.A	37	2,247	N.A
	9,248	50,621	3,288	-	1,768	6,893	-	

Original Table (Quarterly) of Thailand in 2004 (Continued)

Natural Gas (or LNG)		Unit: Mft^3			
		Production	Imports	Exports	Stock Changes
2004	JAN.	63,832	17,552	-	-
	FEB.	60,536	19,933	-	-
	MAR.	66,467	28,410	-	-
	1st quarter	190,835	65,895	-	-
	APR.	62,776	25,308	-	-
	MAY.	66,768	24,335	-	-
	JUN.	64,597	27,130	-	-
	2nd quarter	194,141	76,773	-	-
	JUL.	66,840	28,411	-	-
	AUG.	67,822	29,339	-	-
	SEP.	67,684	28,651	-	-
	3rd quarter	202,346	86,401	-	-
	OCT.	72,010	30,321	-	-
	NOV.	67,183	25,054	-	-
	DEC.	64,719	25,141	-	-
	4th quarter	203,912	80,516	-	-
	791,234	309,585	-	-	

Electricity		Unit: GWh						
		Gross Generation				Imports	Exports	
		Total	Thermal	Hydro	Nuclear			Others
2004	JAN.	9,433	8,866	567	-	0	150	23
	FEB.	9,403	8,824	579	-	0	183	23
	MAR.	10,089	9,385	704	-	0	149	33
	1st quarter	28,925	27,075	1,850	-	0	482	79
	APR.	9,407	8,787	620	-	0	310	28
	MAY.	10,958	10,557	401	-	0	217	31
	JUN.	10,363	10,077	286	-	0	282	17
	2nd quarter	30,729	29,421	1,307	-	1	809	76
	JUL.	10,755	10,338	417	-	0	361	14
	AUG.	10,552	10,178	374	-	0	382	14
	SEP.	10,428	10,028	400	-	0	363	14
	3rd quarter	31,735	30,544	1,191	-	1	1,106	42
	OCT.	10,691	10,245	446	-	0	373	14
	NOV.	10,409	9,788	621	-	0	356	17
	DEC.	9,666	9,156	510	-	0	261	25
	4th quarter	30,767	29,189	1,577	-	1	990	56
	122,156	116,229	5,925	-	2	3,387	253	

Note: ton=Metric ton.

bbL=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

3.20 United States of America

Energy Balance Table of United States of America in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	525,496	-	295,490	55,322	-	-	-	-	-
2 Import	14,914	1,642	560,094	85,209	35,213	3,960	4,529	311	12,659
3 Export	-25,082	-430	-3,466	-47,089	-7,233	-	-1,012	-355	-5,556
4 International Marine Bunkers	-	-	-	-19,222	-	-	-	-	-6,141
5 Stock Changes	13,975	135	-5,034	106	249	20	249	-20	-681
6 Total Primary Energy Supply	529,303	1,347	847,084	74,327	28,229	3,981	3,767	-64	282
7 Public Electricity	-488,101	-	-	-24,644	-	-	-	-	-4,076
8 Autoproducers of Electricity	-5,684	-	-	-1,193	-	-	-	-	-450
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-834,461	849,819	382,898	10,833	75,548	3,002	194,722
11 Coal Transformation	-14,205	12,244	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-46,750	-60	-5	-	-	-221
13 Discrepancy	3,939	0	-12,623	-3,404	0	-1	0	1	297
14 Total Final Energy Consumption	25,252	13,591	-	848,154	411,067	14,807	79,315	2,940	190,553
15 Industry Sector	22,923	13,591	-	169,395	5,241	14,807	-	586	15,544
16 Transport Sector	-	-	-	616,908	402,014	-	79,315	-	135,095
17 Other Sector	2,329	-	-	61,852	3,812	-	-	2,353	39,914
18 Agriculture	361	-	-	13,068	2,488	-	-	41	8,989
19 Residential & Commercial	1,969	-	-	48,784	1,325	-	-	2,313	30,925
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of United States of America in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	543,860	-	302,727	60,216	-	-	-	-	-
2 Import	10,100	1,838	476,283	75,418	22,687	2,889	5,356	256	13,611
3 Export	-24,414	-353	-471	-45,467	-5,652	-	-760	-918	-5,714
4 International Marine Bunkers	-	-	-	-36,333	-	-	-	-	-
5 Stock Changes	478	223	-2,037	4,735	-55	1	390	-10	1,454
6 Total Primary Energy Supply	530,025	1,708	776,502	58,569	16,980	2,890	4,985	-673	9,351
7 Public Electricity	-374,989	-	-18,387	-19,872	-	-	-	-	-2,969
8 Autoproducers of Electricity	-109,007	-	-11,594	-	-	-	-	-	-
9 Gas Processing	-	-	-	-	-	-	-	-	-
10 Petroleum Refineries	-	-	-808,710	819,170	372,523	11,056	75,869	2,820	182,838
11 Coal Transformation	-15,532	13,708	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-147	-49,337	-71	-	-	-	-146
13 Discrepancy	20,903	0	62,336	17,092	12,286	0	-66	-10	-2,471
14 Total Final Energy Consumption	51,400	15,416	-	825,623	401,718	13,946	80,788	2,137	186,603
15 Industry Sector	48,969	15,416	-	147,553	3,789	13,946	-	178	27,278
16 Transport Sector	-	-	-	627,013	396,759	-	80,788	-	127,899
17 Other Sector	2,372	-	-	51,057	1,170	-	-	1,959	31,425
18 Agriculture	-	-	-	-	-	-	-	-	-
19 Residential & Commercial	2,372	-	-	51,057	1,170	-	-	1,959	31,425
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	-	-	-	-	-	-

Energy Balance Table of United States of America in 2003 (Continued)

													ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13	
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	55,322	-	-	446,585	-	23,960	205,443	9,570	6,655	-	-	1,568,520	
18,329	675	-	9,532	92,843	-	-	-	-	-	861	-	755,562	
-10,936	-	-	-21,996	-15,829	-	-	-	-	-	-679	-	-92,575	
-13,081	-	-	-	-	-	-	-	-	-	-	-	-19,222	
-974	689	-	573	-4,430	-	-	-	-	-	-	-	4,754	
-6,662	56,686	-	-11,891	519,169	-	23,960	205,443	9,570	6,655	182	-	2,217,039	
-19,800	-	-	-768	-119,247	-	-23,587	-205,443	-8,610	-3,470	333,993	-	-539,109	
-743	-	-	-	-16,478	-	-373	-	-	-3,185	14,400	-	-12,513	
-	-	-	-	-	-	-	-	-	-	-	-	-	
37,650	13,313	40,627	91,226	-	-	-	-	-	-	-	-	15,359	
-	-	-	-	-	-	-	-	-	-	-	-	-1,962	
-548	-742	-32,836	-12,337	-	-	-	-	-	-	-50,397	-	-97,148	
-10	365	-6,273	2,217	3,844	-	0	-	6	0	672	-	-7,566	
9,887	69,622	1,518	68,446	387,289	-	-	-	966	-	298,849	-	1,574,100	
6,543	56,709	1,518	68,446	177,923	-	-	-	127	-	92,170	-	476,128	
45	438	-	-	15,975	-	-	-	-	-	400	-	633,283	
3,299	12,474	-	-	193,391	-	-	-	838	-	206,279	-	464,689	
-	1,550	-	-	-	-	-	-	-	-	-	-	13,429	
3,299	10,924	-	-	193,391	-	-	-	838	-	206,279	-	451,261	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Energy Balance Table of United States of America in 2002 (Continued)

													ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13	
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total	
-	60,216	-	-	442,772	-	21,963	203,256	12,427	5,927	-	-	1,593,149	
13,681	5,752	-	11,187	92,979	-	-	-	-	-	3,113	-	659,732	
-9,738	-2,099	-	-20,587	-11,778	-	-	-	-	-	-1,148	-	-83,631	
-36,333	-	-	-	-	-	-	-	-	-	-	-	-36,333	
1,462	1,312	-	182	11,368	-	-	-	-	-	-	-	14,766	
-30,928	65,182	-	-9,218	535,341	-	21,963	203,256	12,427	5,927	1,965	-	2,147,683	
-15,985	-	-	-918	-52,274	-	-20,182	-132,205	-142	-300	219,076	-	-399,274	
-	-	-	-	-89,442	-	-1,780	-71,052	-12,285	-5,628	112,529	-	-188,258	
-	-	-	-	-	-	-	-	-	-	-	-	-	
33,028	13,377	34,978	92,681	-	-	-	-	-	-	-	-	10,460	
-	-	-	-	-	-	-	-	-	-	-	-	-1,824	
-883	-452	-34,978	-12,807	-	-	-	-	-	-	-	-	-49,483	
38,079	-10,258	-	-20,468	2,278	-	0	0	0	0	-43,126	-	59,483	
23,311	67,849	-	49,271	395,903	-	-	-	-	-	290,445	-	1,578,787	
4,264	52,846	-	45,251	203,383	-	-	-	-	-	88,019	-	503,340	
17,246	300	-	4,020	8,162	-	-	-	-	-	-	-	635,175	
1,800	14,703	-	-	184,358	-	-	-	-	-	202,426	-	440,213	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,800	14,703	-	-	184,358	-	-	-	-	-	202,426	-	440,213	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	

Major Energy Indicators of United States of America

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	1,748,648	1,678,841	1,695,539	1,703,546	1,769,109	1,849,109	1,874,994	1,863,574	1,871,047
Indigenous Production	1,481,448	1,506,289	1,488,872	1,475,906	1,497,002	1,529,371	1,522,808	1,561,430	1,552,778
Import	376,915	298,407	281,249	337,625	367,850	412,762	447,910	448,937	437,462
Export	-88,326	-90,451	-100,219	-96,074	-91,150	-104,438	-111,569	-114,107	-123,363
Final Energy Consumption	1,434,285	1,359,168	1,344,865	1,349,051	1,397,783	1,461,536	1,476,794	1,475,248	1,462,664
Industry	594,201	527,861	510,870	498,607	523,288	546,521	549,767	563,738	556,413
Transport	470,315	472,916	479,219	497,012	512,118	532,446	538,492	537,741	523,377
Residential & Commercial	356,887	355,268	352,692	352,094	360,844	381,080	387,151	371,408	382,661
Agriculture	-	-	-	-	-	-	-	-	-
Coal, Coal Products									
Primary Energy Supply	371,742	405,989	420,402	412,486	430,511	451,331	457,107	459,408	450,925
Indigenous Production	445,217	472,081	462,644	467,071	482,191	496,446	511,002	537,598	516,950
Import	1,105	1,115	1,512	1,519	1,593	2,873	3,079	2,070	2,681
Export	-59,177	-52,122	-59,036	-54,425	-50,446	-60,476	-63,783	-66,707	-68,755
Transformation Sector	-305,433	-345,429	-357,410	-352,870	-370,837	-389,224	-391,911	-395,279	-388,479
Power Generation	-290,071	-335,330	-348,402	-344,985	-362,743	-379,535	-382,572	-386,734	-385,831
Final Energy Consumption	113,084	90,786	87,668	82,477	84,282	89,539	87,390	86,214	76,781
Industry	100,038	85,793	83,451	78,265	80,408	85,515	83,898	82,490	73,409
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	3,482	4,993	4,217	4,212	3,874	4,023	3,492	3,724	3,372
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	741,462	664,085	660,377	696,112	703,367	724,268	727,351	727,371	686,395
Indigenous Production	490,831	505,661	508,322	491,368	476,162	467,758	437,509	424,837	388,894
Import	268,423	176,677	165,089	216,427	241,433	264,452	301,867	305,996	301,448
Export	-14,570	-9,303	-10,415	-7,902	-7,711	-7,961	-7,424	-5,571	-5,905
Transformation Sector	-701,883	-655,343	-654,690	-690,815	-696,757	-718,765	-725,380	-729,530	-729,968
Petroleum Refineries	-701,883	-655,343	-654,690	-690,815	-696,757	-718,765	-725,380	-729,530	-729,968
Petroleum Products									
Primary Energy Supply	66,318	65,023	66,982	61,608	70,892	80,296	78,717	58,721	85,563
Import	82,411	97,771	89,121	99,212	97,849	112,698	109,262	103,769	89,904
Export	-13,107	-27,552	-29,075	-31,933	-31,249	-33,693	-36,592	-38,090	-44,974
Transformation Sector	652,021	633,600	639,590	668,471	677,406	690,866	692,891	709,230	703,615
Power Generation	-62,925	-30,608	-25,939	-34,532	-29,839	-37,133	-39,972	-29,344	-33,316
Petroleum Refineries	714,946	664,208	665,529	703,003	707,244	728,000	732,863	738,574	736,931
Final Energy Consumption	759,089	715,296	715,868	737,327	758,716	783,753	780,782	775,668	753,645
Industry	228,529	191,554	186,609	189,767	195,440	202,058	195,286	199,087	192,893
Transport	455,308	460,261	467,112	485,358	499,655	517,776	523,433	521,973	508,966
Residential & Commercial	72,669	60,694	60,386	61,173	62,087	62,431	60,679	52,248	51,573
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	473,432	420,208	411,471	387,933	410,349	424,453	441,357	435,353	454,916
Indigenous Production	451,504	408,420	385,115	375,145	388,640	399,136	404,776	416,445	413,421
Import	22,826	19,216	21,583	16,969	22,488	29,402	31,458	35,169	40,781
Export	-1,120	-1,254	-1,267	-1,401	-1,239	-1,700	-2,470	-1,976	-2,996
Transformation Sector	-86,421	-73,035	-71,663	-61,028	-66,567	-61,449	-65,106	-65,366	-101,440
Power Generation	-86,421	-73,035	-71,663	-61,028	-66,567	-61,449	-65,106	-65,366	-101,440
Final Energy Consumption	376,869	346,986	333,225	318,143	335,944	359,260	374,456	372,100	379,879
Industry	190,395	168,913	160,580	151,732	166,087	174,549	184,406	192,829	195,485
Transport	14,739	12,352	11,780	11,320	12,140	14,327	14,715	15,414	14,060
Residential & Commercial	171,000	165,385	160,543	154,783	157,717	170,384	175,335	163,857	170,334
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	196,478	207,638	212,238	213,740	221,028	232,382	239,261	241,310	264,105
Thermal	150,895	151,597	154,814	152,873	160,152	167,639	170,694	167,381	187,486
Hydro	23,991	27,869	24,431	25,264	21,728	19,429	23,049	24,326	23,947
Nuclear	21,593	28,172	32,993	35,602	39,148	45,313	45,518	49,603	52,672
Final Energy Consumption	180,358	196,810	200,093	203,943	211,554	221,940	227,851	233,232	237,480
Industry	70,353	72,311	72,219	71,683	74,065	77,355	79,862	81,298	81,388
Transport	268	303	327	334	323	343	343	355	351
Residential & Commercial	109,736	124,196	127,546	131,926	137,166	144,242	147,645	151,579	155,741
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of United States of America (Continued)

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1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
2,009,397	2,049,867	2,074,281	2,104,406	2,014,426	2,034,501	2,055,673	2,098,889	2,173,145	2,126,005	2,147,683	2,217,039
1,657,923	1,625,581	1,660,168	1,661,749	1,603,050	1,604,843	1,613,402	1,594,653	1,589,984	1,625,547	1,593,149	1,568,520
461,802	505,942	531,728	527,118	536,293	570,303	604,681	620,371	661,551	679,261	659,732	755,562
-118,390	-102,032	-97,306	-107,839	-108,822	-105,866	-98,699	-86,545	-92,948	-87,702	-83,631	-92,575
1,502,920	1,528,914	1,521,315	1,550,999	1,522,836	1,532,381	1,521,856	1,559,868	1,607,786	1,561,710	1,578,787	1,574,100
566,646	566,070	543,727	551,202	526,456	531,324	517,410	525,792	539,470	495,992	503,340	476,128
536,564	545,832	562,750	574,575	574,819	582,682	597,969	615,407	628,790	631,696	635,175	633,283
399,632	415,719	414,007	424,786	421,523	418,354	406,426	418,624	439,459	433,963	440,213	451,261
-	-	-	-	-	-	-	-	-	-	-	13,429
457,224	469,525	476,729	476,194	500,208	516,418	513,147	511,477	533,726	528,024	531,733	530,650
516,936	484,311	528,307	526,162	542,128	557,092	566,515	552,594	536,907	566,010	543,860	525,496
3,309	5,285	5,496	5,388	6,366	6,344	7,497	7,354	9,734	13,232	11,938	16,556
-64,586	-47,476	-45,370	-55,941	-56,946	-52,627	-49,042	-36,602	-36,795	-30,579	-24,767	-25,512
-392,566	-408,175	-415,782	-418,961	-455,566	-467,871	-474,828	-467,411	-486,798	-482,331	-485,820	-495,747
-392,672	-408,067	-401,637	-404,326	-453,573	-465,973	-473,056	-465,644	-484,979	-480,692	-483,995	-493,785
81,178	77,934	68,151	66,816	79,137	78,173	73,463	71,516	72,317	67,404	66,816	38,842
79,041	76,572	66,476	65,270	75,667	74,457	70,635	68,681	69,899	64,986	64,385	36,513
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
2,137	1,362	1,675	1,546	3,433	3,695	2,776	2,789	2,351	2,359	2,372	1,969
-	-	-	-	-	-	-	-	-	-	-	361
704,273	714,062	727,055	731,608	736,225	760,513	779,227	760,166	783,860	787,048	776,502	847,084
390,754	368,976	363,851	355,444	341,507	338,995	328,562	309,705	307,711	305,879	302,727	295,490
318,281	354,426	368,862	376,105	393,961	429,736	454,472	456,290	475,268	487,560	476,283	560,094
-4,544	-5,035	-5,043	-4,848	-5,631	-5,750	-5,917	-6,039	-2,689	-1,089	-471	-3,466
-736,915	-753,517	-754,667	-767,653	-789,598	-810,847	-833,523	-826,840	-835,439	-842,267	-838,838	-834,461
-736,195	-753,517	-754,667	-764,633	-767,523	-787,490	-799,795	-798,423	-810,384	-812,399	-808,710	-834,461
95,623	96,856	106,097	101,102	47,766	37,401	40,845	68,374	66,978	57,463	58,569	74,327
88,005	88,507	92,064	75,820	64,077	61,056	66,184	69,826	84,612	82,891	75,418	85,209
-43,505	-45,375	-42,532	-42,730	-42,462	-43,136	-38,935	-38,933	-46,629	-46,101	-45,467	-47,089
715,843	728,156	726,558	746,428	708,615	725,533	731,367	735,063	752,986	752,650	749,962	777,231
-28,579	-32,822	-34,933	-23,069	-17,299	-19,566	-27,774	-22,441	-18,555	-19,698	-19,872	-25,837
744,422	760,978	761,491	769,497	775,900	794,788	808,767	806,756	821,262	821,710	819,170	849,819
765,814	769,517	787,721	795,821	774,825	787,579	791,397	814,211	829,915	820,073	825,623	848,154
192,448	186,814	191,787	187,811	155,487	162,105	154,291	156,580	156,750	144,052	147,553	169,395
522,477	531,249	546,415	557,870	566,069	573,992	589,752	607,223	620,297	623,610	627,013	616,908
50,889	51,332	49,519	49,704	53,269	51,482	47,354	50,408	52,868	52,410	51,057	48,784
-	-	-	-	-	-	-	-	-	-	-	13,068
463,961	478,232	488,522	506,252	502,713	505,023	499,393	520,732	547,504	514,825	535,341	519,169
416,740	427,489	438,806	433,200	438,293	439,415	442,233	437,786	445,916	457,410	442,772	446,585
49,011	54,366	60,817	65,787	68,152	69,469	73,132	83,188	87,738	92,270	92,979	92,843
-4,993	-3,230	-3,709	-3,534	-3,500	-3,582	-3,628	-3,728	-5,561	-8,517	-11,778	-15,829
-107,483	-109,473	-119,665	-128,358	-119,826	-120,288	-137,052	-132,992	-146,438	-160,570	-141,716	-135,725
-107,483	-109,473	-119,665	-128,358	-119,826	-120,288	-137,052	-132,992	-146,438	-160,570	-141,716	-135,725
348,581	364,146	363,494	374,048	410,587	404,989	385,296	398,572	420,871	392,215	395,903	387,289
159,614	165,550	166,049	174,101	206,399	205,514	202,117	209,563	221,338	201,489	203,383	177,923
13,742	14,229	15,994	16,374	8,750	8,689	8,217	8,183	8,493	8,086	8,162	15,975
175,214	183,297	180,735	183,573	195,439	190,785	174,962	180,826	191,041	182,641	184,358	193,391
-	-	-	-	-	-	-	-	-	-	-	-
265,802	275,644	280,618	289,623	296,247	300,304	310,929	318,376	326,574	322,960	331,606	348,393
191,193	199,394	203,467	205,216	208,639	215,753	225,598	228,828	238,283	238,966	242,568	256,636
21,397	23,766	22,077	26,503	29,591	30,497	27,402	26,929	23,466	17,886	21,963	23,960
53,212	52,483	55,074	57,903	58,017	54,055	57,929	62,620	64,824	66,108	67,075	67,796
246,383	254,846	262,012	269,656	258,287	261,640	271,700	275,569	284,683	282,018	290,445	298,849
92,422	93,274	96,362	97,643	88,904	89,248	90,366	90,968	91,484	85,465	88,019	92,170
344	353	341	331	-	-	-	-	-	-	-	400
153,618	161,219	165,309	171,682	169,383	172,392	181,334	184,601	193,199	196,552	202,426	206,279
-	-	-	-	-	-	-	-	-	-	-	-

Major Economic Indicators of United States of America

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	227.23	235.83	237.92	240.13	242.29	244.50	246.82	249.62
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	4,722.47	5,317.38	5,535.64	5,725.54	5,916.99	6,160.95	6,378.56	6,497.08
Real Term (Billions of 1995 Price and 1995 PPP)	4,777.93	5,379.83	5,600.65	5,792.77	5,986.48	6,233.29	6,453.46	6,573.38
Nominal (Billions of Current USD)	2,768.90	3,902.60	4,187.50	4,427.70	4,702.10	5,063.90	5,441.70	5,757.20
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	20,783	22,548	23,266	23,843	24,421	25,198	25,843	26,028
Real Term (1995 Price and 1995 PPP)	21,027	22,813	23,540	24,123	24,708	25,494	26,147	26,333
Nominal (Current USD)	12,186	16,549	17,600	18,439	19,407	20,711	22,047	23,064
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	2,768.90	3,902.60	4,187.50	4,427.70	4,702.10	5,063.90	5,441.70	5,757.20
Household Final Consumption Expenditure, etc.	1,757.10	2,503.30	2,720.30	2,899.70	3,100.20	3,353.60	3,598.50	3,839.90
General Government Final Consumption Expenditure	463.80	668.80	733.10	789.30	835.00	873.20	915.00	978.80
Gross Fixed Capital Formation	565.20	767.60	824.10	858.20	884.50	935.80	989.10	1,003.40
Stock Change	-4.30	65.70	25.30	13.20	27.40	11.70	27.20	13.10
Exports of Goods and Services	280.80	302.40	302.00	320.50	363.90	444.10	503.30	552.40
Imports of Goods and Services	293.80	405.10	417.20	453.30	509.10	554.50	591.50	630.30
Real GDP & its Components (Billions of 1995 USD) *1								
Gross Domestic Product	5,128.00	5,774.00	6,011.00	6,217.20	6,425.10	6,690.00	6,926.30	7,055.00
Household Final Consumption Expenditure, etc.	3,374.10	3,863.30	4,064.00	4,228.90	4,369.80	4,546.90	4,675.00	4,770.30
General Government Final Consumption Expenditure	957.10	1,065.30	1,128.10	1,191.50	1,224.30	1,244.70	1,261.80	1,293.80
Gross Fixed Capital Formation	785.60	996.90	1,007.00	1,010.70	1,038.50	1,055.30	1,102.20	1,081.40
Stock Change	-6.50	71.60	25.80	12.30	29.40	14.70	28.20	14.40
Exports of Goods and Services	323.50	318.70	328.30	353.60	391.80	454.60	506.80	552.50
Imports of Goods and Services	310.90	441.10	469.80	510.00	540.20	561.40	586.00	607.10
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	1.3	1.4	1.5	1.5	1.5	1.3	1.3	1.4
Industry	25.9	24.4	24.4	23.6	24.2	24.9	23.9	23.4
Services, etc.	70.4	70.1	69.5	69.3	69.0	69.3	69.1	69.2
Industrial Production Index (2000=100) *2	54.2	58.3	59.1	59.7	62.7	65.8	66.4	66.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	225.566	223.976	218.815	227.158	254.122	322.427	363.812	393.592
Imports, c.i.f.	256.984	346.364	352.463	382.295	424.442	459.542	492.922	516.987
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-25.510	-112.480	-122.180	-144.641	-159.239	-126.609	-117.040	-110.270
Current Account	2.150	-99.007	-124.470	-147.172	-160.653	-121.253	-99.500	-78.960
Overall Balance	6.990	3.126	3.835	-0.310	-9.147	3.915	25.288	2.233
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	0.9946	1.0028	0.9996	0.9907	0.9965	1.0058	0.9948	0.9918
Price Indices								
GDP Deflator (2000=100) *3	54.0	67.6	69.7	71.2	73.2	75.7	78.6	81.6
Wholesale Price Index (2000=100) *2	67.7	78.1	77.7	75.5	77.5	80.6	84.6	87.6
Consumer Price Index (2000=100) *2	47.9	60.3	62.5	63.6	66.0	68.7	72.0	75.9
Growth Rate (%) *3								
Real GDP	-0.24	7.20	4.10	3.43	3.34	4.12	3.53	1.86
Population	0.96	0.87	0.89	0.93	0.90	0.91	0.95	1.14
Price								
Wholesale Price Index	14.1	2.4	-0.5	-2.9	2.6	4.0	5.0	3.6
Consumer Price Index	13.5	4.3	3.6	1.9	3.7	4.0	4.8	5.4

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"

: USD shows United States Dollar

: PPP shows Purchasing Power Parity

Major Economic Indicators of United States of America (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
252.98	256.51	259.92	263.13	266.28	269.39	272.66	275.85	279.04	282.22	285.32	288.37	290.81
6,484.46	6,700.79	6,881.10	7,160.60	7,342.30	7,617.29	7,963.74	8,299.78	8,672.38	8,992.59	9,039.09	9,238.66	9,525.05
6,560.61	6,779.48	6,961.91	7,244.69	7,428.52	7,706.74	8,057.25	8,397.24	8,774.22	9,098.19	9,145.24	9,347.15	752.74
5,946.90	6,286.80	6,604.30	7,017.50	7,342.30	7,762.30	8,250.90	8,694.60	9,216.20	9,764.80	10,049.00	10,429.00	10,948.55
25,632	26,123	26,474	27,214	27,574	28,276	29,208	30,088	31,079	31,863	31,681	32,038	32,754
25,933	26,429	26,785	27,533	27,898	28,608	29,551	30,441	31,444	32,237	32,053	32,414	33,138
23,507	24,509	25,409	26,670	27,574	28,814	30,261	31,519	33,028	34,599	35,220	36,165	37,648
5,946.90	6,286.80	6,604.30	7,017.50	7,342.30	7,762.30	8,250.90	8,694.60	9,216.20	9,764.80	10,049.00	10,429.00	10,948.55
3,986.10	4,235.30	4,477.90	4,743.30	4,975.80	5,256.80	5,547.40	5,879.50	6,282.50	6,739.40	7,045.40	7,385.30	N.A.
1,022.20	1,052.40	1,068.40	1,096.50	1,125.30	1,161.00	1,199.50	1,239.40	1,319.90	1,404.10	1,485.50	1,587.50	N.A.
966.60	1,016.50	1,102.10	1,208.00	1,301.60	1,410.70	1,533.70	1,664.70	1,807.10	1,944.20	1,919.80	1,875.70	N.A.
-0.50	15.90	20.80	63.40	30.90	30.00	71.90	70.90	67.20	56.50	-35.10	6.70	N.A.
596.80	635.30	655.80	720.90	812.20	868.60	955.30	955.90	991.20	1,096.30	1,035.10	1,006.80	N.A.
624.30	668.60	720.90	814.50	903.60	964.80	1,056.90	1,115.90	1,251.70	1,475.80	1,401.70	1,433.10	N.A.
7,041.30	7,276.20	7,472.00	7,775.50	7,972.80	8,271.40	8,647.60	9,012.50	9,417.10	9,764.80	9,815.30	10,032.00	10,342.99
4,778.40	4,934.80	5,099.80	5,290.70	5,433.50	5,619.40	5,831.80	6,125.80	6,438.60	6,739.40	6,904.60	7,140.40	N.A.
1,302.50	1,303.90	1,290.50	1,290.00	1,288.90	1,294.90	1,311.30	1,333.50	1,378.00	1,404.10	1,445.00	1,502.10	N.A.
1,012.30	1,084.40	1,163.60	1,297.70	1,341.50	1,450.20	1,618.30	1,764.10	1,901.00	2,000.70	1,862.30	1,855.80	N.A.
-0.80	16.30	20.90	63.40	29.80	27.80	71.10	72.70	69.20	56.50	-34.80	7.40	N.A.
589.10	629.70	650.00	706.50	778.20	843.40	943.70	966.50	1,008.20	1,096.30	1,039.00	1,014.20	N.A.
603.70	645.60	702.10	785.90	849.10	923.00	1,048.30	1,170.30	1,304.40	1,475.80	1,437.10	1,484.70	N.A.
1.4	1.4	1.4	1.4	1.2	1.2	1.3	1.3	1.4	1.5	1.4	N.A.	N.A.
22.5	22.0	22.0	22.6	23.2	23.0	22.9	22.8	22.9	22.8	21.6	N.A.	N.A.
69.8	69.2	68.6	67.7	67.9	68.1	68.5	69.2	69.2	70.3	71.5	N.A.	N.A.
65.9	67.8	70.0	73.8	77.5	80.8	86.7	91.7	95.9	100.0	96.4	96.2	96.1
421.730	448.163	464.773	512.627	584.743	625.073	688.697	682.138	692.784	781.125	730.803	693.860	723.805
508.363	553.923	603.438	689.215	770.852	822.025	899.020	944.353	1,059.440	1,259.300	1,179.180	1,200.227	1,303.050
-75.700	-95.127	-130.551	-163.781	-172.330	-189.100	-196.164	-244.736	-343.716	-449.785	-424.085	-478.807	-544.044
2.841	-50.070	-84.783	-121.642	-113.664	-124.857	-140.906	-214.037	-300.082	-415.996	-389.455	-475.208	-519.680
-5.759	-3.927	1.376	-5.350	9.747	-6.667	1.012	6.731	-8.727	0.295	4.927	3.693	-1.529
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.9902	0.9857	0.9810	0.9807	0.9884	0.9897	0.9927	1.0014	1.0048	1.0142	1.0119	1.0067	1.0023
84.5	86.4	88.4	90.3	92.1	93.8	95.4	96.5	97.9	100.0	102.4	104.0	105.9
87.8	88.3	89.6	90.8	94.0	96.2	96.1	93.8	94.5	100.0	101.1	98.8	104.1
79.1	81.5	83.9	86.1	88.5	91.1	93.2	94.7	96.7	100.0	102.8	104.5	106.8
-0.19	3.34	2.69	4.06	2.54	3.75	4.55	4.22	4.49	3.69	0.52	2.21	3.10
1.35	1.40	1.33	1.23	1.20	1.17	1.21	1.17	1.15	1.14	1.10	1.07	0.85
0.2	0.6	1.5	1.3	3.6	2.3	-0.1	-2.5	0.8	5.8	1.1	-2.3	5.3
4.2	3.0	3.0	2.6	2.8	2.9	2.3	1.6	2.2	3.4	2.8	1.6	2.3

Original Table (Energy Demand and Supply) of United States of America in 2003

Year:2003

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	1,063,336.96	Mst	0.0196	TBtu/Mst	20,853.36	TBtu
HARD COAL	977,980.94	Mst	0.0202	TBtu/Mst	19,798.73	TBtu
STEAM COAL	484,321.31	Mst	0.0233	TBtu/Mst	11,274.19	TBtu
COKING COAL	48,861.95	Mst	0.0236	TBtu/Mst	1,151.75	TBtu
SUBBITUMINOUS COAL	444,797.68	Mst	0.0166	TBtu/Mst	7,372.79	TBtu
LIGNITE	85,356.03	Mst	0.0124	TBtu/Mst	1,054.63	TBtu
CRUDE OIL AND NGL/CONDENSATE	2,153,748.28	Mb	0.0054	TBtu/Mb	11,725.97	TBtu
CRUDE OIL	2,110,284.67	Mb	0.0054	TBtu/Mb	11,489.34	TBtu
NGL/CONDENSATE	43,463.60	Mb	0.0054	TBtu/Mb	236.64	TBtu
LPG	530,023.24	Mb	0.0041	TBtu/Mb	2,195.36	TBtu
NATURAL GAS AND LNG	19,210.76	Bcf	0.9225	TBtu/M^3	17,721.93	TBtu
NATURAL GAS	19,210.76	Bcf	0.9225	TBtu/M^3	17,721.93	TBtu
HYDRO POWER	278,834.12	MMkWh	0.0034	TBtu/MMkWh	950.82	TBtu
NUCLEAR POWER	788,454.56	MMkWh	0.0103	TBtu/MMkWh	8,152.62	TBtu
GEOHERMAL POWER	8,888.81	MMkWh	0.0341	TBtu/MMkWh	303.11	TBtu
OTHER POWER	11,311.13	MMkWh	0.0034	TBtu/MMkWh	38.57	TBtu
WIND	11,309.13	MMkWh	0.0034	TBtu/MMkWh	38.56	TBtu
PHOTOVOLTAIC POWER	2.00	MMkWh	0.0034	TBtu/MMkWh	0.01	TBtu
GEOHERMAL HEAT	37.89	TBtu	1.0000	TBtu/TBtu	37.89	TBtu
SOLAR HEAT	56.61	TBtu	0.0034	TBtu/TBtu	0.19	TBtu
OTHERS	264.07	TBtu	1.0000	TBtu/TBtu	264.07	TBtu
TOTAL PRODUCTION					62,243.90	TBtu
OPENING STOCKS						
TOTAL OPENING STOCKS						TBtu
CLOSING STOCKS						
TOTAL CLOSING STOCKS						TBtu
STOCK CHANGE						
COAL	26,175.82	Mst	0.0212	TBtu/Mst	554.59	TBtu
HARD COAL	25,559.96	Mst	0.0214	TBtu/Mst	546.98	TBtu
STEAM COAL	17,880.88	Mst	0.0233	TBtu/Mst	416.24	TBtu
COKING COAL	515.74	Mst	0.0233	TBtu/Mst	12.01	TBtu
SUBBITUMINOUS COAL	7,163.34	Mst	0.0166	TBtu/Mst	118.74	TBtu
LIGNITE	615.86	Mst	0.0124	TBtu/Mst	7.61	TBtu
COKE	227.65	Mst	0.0236	TBtu/Mst	5.36	TBtu
CRUDE OIL AND NGL/CONDENSATE	-36,297.58	Mb	0.0055	TBtu/Mb	-199.76	TBtu
CRUDE OIL	-35,750.68	Mb	0.0055	TBtu/Mb	-196.75	TBtu
NGL/CONDENSATE	-546.90	Mb	0.0055	TBtu/Mb	-3.01	TBtu
LPG	7,982.62	Mb	0.0034	TBtu/Mb	27.35	TBtu
NAPHTHA	162.57	Mb	0.0050	TBtu/Mb	0.81	TBtu
MOGAS	1,998.87	Mb	0.0049	TBtu/Mb	9.89	TBtu
JET FUEL	1,836.67	Mb	0.0054	TBtu/Mb	9.89	TBtu
KEROSENE	-146.27	Mb	0.0054	TBtu/Mb	-0.79	TBtu
DIESEL OIL	-4,883.75	Mb	0.0055	TBtu/Mb	-27.03	TBtu
FUEL OIL	-6,474.06	Mb	0.0060	TBtu/Mb	-38.67	TBtu
OTHER PETROLEUM PRODUCTS	4,157.17	Mb	0.0055	TBtu/Mb	22.76	TBtu
NATURAL GAS AND LNG	-190.55	Bcf	0.9225	TBtu/Bcf	-175.78	TBtu
NATURAL GAS	-190.55	Bcf	0.9225	TBtu/Bcf	-175.78	TBtu
TOTAL STOCK CHANGE					188.64	TBtu
IMPORTS						
COAL	25,732.95	Mst	0.0230	TBtu/Mst	591.85	TBtu
HARD COAL	25,614.22	Mst	0.0230	TBtu/Mst	590.38	TBtu
STEAM COAL	22,812.84	Mst	0.0233	TBtu/Mst	531.04	TBtu
COKING COAL	1,924.43	Mst	0.0233	TBtu/Mst	44.80	TBtu
SUBBITUMINOUS COAL	876.95	Mst	0.0166	TBtu/Mst	14.54	TBtu
LIGNITE	118.73	Mst	0.0124	TBtu/Mst	1.47	TBtu
COKE	2,764.96	Mst	0.0236	TBtu/Mst	65.14	TBtu
CRUDE OIL AND NGL/CONDENSATE	3,930,138.22	Mb	0.0057	TBtu/Mb	22,226.31	TBtu
CRUDE OIL	3,721,139.57	Mb	0.0057	TBtu/Mb	21,044.35	TBtu
NGL/CONDENSATE	208,998.65	Mb	0.0057	TBtu/Mb	1,181.96	TBtu
LPG	7,812.49	Mb	0.0034	TBtu/Mb	26.77	TBtu
NAPHTHA	31,522.26	Mb	0.0050	TBtu/Mb	157.16	TBtu
MOGAS	282,321.42	Mb	0.0049	TBtu/Mb	1,397.35	TBtu
JET FUEL	33,369.32	Mb	0.0054	TBtu/Mb	179.74	TBtu
KEROSENE	2,294.21	Mb	0.0054	TBtu/Mb	12.36	TBtu
DIESEL OIL	90,779.85	Mb	0.0055	TBtu/Mb	502.35	TBtu
FUEL OIL	121,782.54	Mb	0.0060	TBtu/Mb	727.36	TBtu
OTHER PETROLEUM PRODUCTS	67,667.89	Mb	0.0056	TBtu/Mb	378.25	TBtu
NATURAL GAS AND LNG	4,001.63	Bcf	0.9207	TBtu/Bcf	3,684.30	TBtu
NATURAL GAS	4,001.63	Bcf	0.9207	TBtu/Bcf	3,684.30	TBtu
ELECTRICITY	10,024.52	MMkWh	0.0034	TBtu/MMkWh	34.18	TBtu
TOTAL IMPORTS					29,983.12	TBtu
EXPORTS						
COAL	45,373.07	Mst	0.0219	TBtu/Mst	995.35	TBtu
HARD COAL	45,239.91	Mst	0.0220	TBtu/Mst	993.70	TBtu
STEAM COAL	11,593.05	Mst	0.0233	TBtu/Mst	269.87	TBtu
COKING COAL	24,783.83	Mst	0.0233	TBtu/Mst	576.93	TBtu
SUBBITUMINOUS COAL	8,863.03	Mst	0.0166	TBtu/Mst	146.91	TBtu
LIGNITE	133.16	Mst	0.0124	TBtu/Mst	1.65	TBtu
COKE	723.84	Mst	0.0236	TBtu/Mst	17.05	TBtu

Original Table (Energy Demand and Supply) of United States of America in 2003 (Continued)

Year:2003

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
CRUDE OIL AND NGL/CONDENSATE	25,292.48	Mb	0.0054	TBtu/Mb	137.54	TBtu
CRUDE OIL	4,758.16	Mb	0.0054	TBtu/Mb	25.87	TBtu
NGL/CONDENSATE	20,534.32	Mb	0.0054	TBtu/Mb	111.66	TBtu
MOGAS	57,993.04	Mb	0.0049	TBtu/Mb	287.04	TBtu
JET FUEL	7,453.72	Mb	0.0054	TBtu/Mb	40.15	TBtu
KEROSENE	2,617.55	Mb	0.0054	TBtu/Mb	14.10	TBtu
DIESEL OIL	39,841.90	Mb	0.0055	TBtu/Mb	220.48	TBtu
FUEL OIL	72,662.58	Mb	0.0060	TBtu/Mb	433.99	TBtu
OTHER PETROLEUM PRODUCTS	153,881.51	Mb	0.0057	TBtu/Mb	872.89	TBtu
NATURAL GAS AND LNG	693.78	Bcf	0.9054	TBtu/Bcf	628.15	TBtu
NATURAL GAS	693.78	Bcf	0.9054	TBtu/Bcf	628.15	TBtu
ELECTRICITY	7,907.46	MMkWh	0.0034	TBtu/MMkWh	26.96	TBtu
TOTAL EXPORTS					3,673.69	TBtu
INTERNATIONAL MARINE BUNKERS	129,859.50	Mb	0.0059	TBtu/Mb	762.78	TBtu
DIESEL OIL	44,035.39	Mb	0.0055	TBtu/Mb	243.68	TBtu
FUEL OIL	86,911.90	Mb	0.0060	TBtu/Mb	519.09	TBtu
TOTAL PRIMARY ENERGY SUPPLY					87,979.21	TBtu
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL	24,216.15	Mst	0.0233	TBtu/Mst	563.71	TBtu
HARD COAL	24,216.15	Mst	0.0233	TBtu/Mst	563.71	TBtu
COKING COAL	24,216.15	Mst	0.0233	TBtu/Mst	563.71	TBtu
REFINING						
CRUDE OIL AND NGL/CONDENSATE	6,045,249.99	Mb	0.0055	TBtu/Mb	33,114.07	TBtu
CRUDE OIL	5,807,207.63	Mb	0.0055	TBtu/Mb	31,810.14	TBtu
NGL/CONDENSATE	238,042.36	Mb	0.0055	TBtu/Mb	1,303.92	TBtu
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)						
COAL	832,079.03	Mst	0.0233	TBtu/Mst	19,369.41	TBtu
DIESEL OIL	29,228.28	Mb	0.0055	TBtu/Mb	161.74	TBtu
FUEL OIL	131,554.23	Mb	0.0060	TBtu/Mb	785.73	TBtu
OTHER PETROLEUM PRODUCTS	5,658.86	Mb	0.0054	TBtu/Mb	30.48	TBtu
NATURAL GAS AND LNG	5,124.66	Bcf	0.9234	TBtu/Bcf	4,732.11	TBtu
NATURAL GAS	5,124.66	Bcf	0.9234	TBtu/Bcf	4,732.11	TBtu
HYDRO POWER	274,492.61	MMkWh	0.0034	TBtu/MMkWh	936.02	TBtu
NUCLEAR POWER	788,454.56	MMkWh	0.0103	TBtu/MMkWh	8,152.62	TBtu
GEOTHERMAL POWER	8,888.81	MMkWh	0.0341	TBtu/MMkWh	303.11	TBtu
OTHER POWER	11,311.13	MMkWh	0.0034	TBtu/MMkWh	38.57	TBtu
WIND	11,309.13	MMkWh	0.0034	TBtu/MMkWh	38.56	TBtu
PHOTOVOLTAIC POWER	2.00	MMkWh	0.0034	TBtu/MMkWh	0.01	TBtu
OTHERS	137.69	TBtu	1.0000	TBtu/TbBtu	137.69	TBtu
POWER GENERATION (AUTO PRODUCERS)						
COAL	9,689.81	Mst	0.0233	TBtu/Mst	225.56	TBtu
DIESEL OIL	3,228.62	Mb	0.0055	TBtu/Mb	17.87	TBtu
FUEL OIL	4,936.87	Mb	0.0060	TBtu/Mb	29.49	TBtu
NATURAL GAS AND LNG	708.12	Bcf	0.9234	TBtu/Bcf	653.88	TBtu
NATURAL GAS	708.12	Bcf	0.9234	TBtu/Bcf	653.88	TBtu
HYDRO POWER	4,341.51	MMkWh	0.0034	TBtu/MMkWh	14.80	TBtu
OTHERS	126.39	TBtu	1.0000	TBtu/TbBtu	126.39	TBtu
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE	20,622.38	Mst	0.0236	TBtu/Mst	485.86	TBtu
GAS RECOVERING						
REFINING						
REFINERY GAS	282,845.15	Mb	0.0057	TBtu/Mb	1,612.22	TBtu
LPG	556.11	TBtu	0.9500	TBtu/TBtu	528.30	TBtu
NAPHTHA	86,224.16	Mb	0.0050	TBtu/Mb	429.88	TBtu
MOGAS	2,665,725.51	Mb	0.0057	TBtu/Mb	15,194.64	TBtu
JET FUEL	874,899.73	Mb	0.0034	TBtu/Mb	2,997.98	TBtu
KEROSENE	24,071.17	Mb	0.0049	TBtu/Mb	119.14	TBtu
DIESEL OIL	1,434,546.39	Mb	0.0054	TBtu/Mb	7,727.18	TBtu
FUEL OIL	277,375.30	Mb	0.0054	TBtu/Mb	1,494.08	TBtu
OTHER PETROLEUM PRODUCTS	672,074.07	Mb	0.0054	TBtu/Mb	3,620.13	TBtu
GAS PROCESSING						
POWER GENERATION (PUBLIC UTILITIES)	3,886,772.00	MMkWh				
THERMAL	2,764,902.00	MMkWh	0.0034	TBtu/MMkWh	9,428.32	TBtu
HYDRO POWER	274,271.00	MMkWh	0.0034	TBtu/MMkWh	935.26	TBtu
NUCLEAR POWER	787,818.00	MMkWh	0.0034	TBtu/MMkWh	2,686.46	TBtu
GEOTHERMAL POWER	14,870.00	MMkWh	0.0034	TBtu/MMkWh	50.71	TBtu
OTHER POWER	11,302.00	MMkWh	0.0034	TBtu/MMkWh	38.54	TBtu
WIND	11,300.00	MMkWh	0.0034	TBtu/MMkWh	38.53	TBtu
PHOTOVOLTAIC POWER	2.00	MMkWh	0.0034	TBtu/MMkWh	0.01	TBtu
OTHERS	33,609.00	MMkWh	0.0034	TBtu/MMkWh	114.61	TBtu
POWER GENERATION (AUTO PRODUCERS)	167,581.00	MMkWh				
THERMAL	126,179.00	MMkWh	0.0034	TBtu/MMkWh	430.27	TBtu
HYDRO POWER	4,338.00	MMkWh	0.0034	TBtu/MMkWh	14.79	TBtu
OTHERS	37,064.00	MMkWh	0.0034	TBtu/MMkWh	126.39	TBtu
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
REFINERY GAS	228,602.74	Mb	0.0057	TBtu/Mb	1,303.04	TBtu
LPG	8,597.67	Mb	0.0034	TBtu/Mb	29.46	TBtu
NAPHTHA	42.78	Mb	0.0050	TBtu/Mb	0.21	TBtu

Original Table (Energy Demand and Supply) of United States of America in 2003 (Continued)

Year:2003

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
MOGAS	480.42	Mb	0.0049	TBtu/Mb	2.38	TBtu
DIESEL OIL	1,588.33	Mb	0.0055	TBtu/Mb	8.79	TBtu
FUEL OIL	3,642.06	Mb	0.0060	TBtu/Mb	21.75	TBtu
OTHER PETROLEUM PRODUCTS	82,336.68	Mb	0.0059	TBtu/Mb	489.58	TBtu
ELECTRICITY	586,489.50	MMkWh	0.0034	TBtu/MMkWh	1,999.93	TBtu
TOTAL LOSSES AND OWN USE					3,855.14	TBtu
FINAL ENERGY CONSUMPTION TOTAL						
COAL	43,047.63	Mst	0.0233	TBtu/Mst	1,002.08	TBtu
COKE	22,891.15	Mst	0.0236	TBtu/Mst	539.32	TBtu
REFINERY GAS	10,568.26	Mb	0.0057	TBtu/Mb	60.24	TBtu
LPG	806,270.37	Mb	0.0034	TBtu/Mb	2,762.81	TBtu
NAPHTHA	117,857.66	Mb	0.0050	TBtu/Mb	587.59	TBtu
MOGAS	3,295,780.25	Mb	0.0049	TBtu/Mb	16,312.46	TBtu
JET FUEL	584,324.29	Mb	0.0054	TBtu/Mb	3,147.46	TBtu
KEROSENE	21,656.39	Mb	0.0054	TBtu/Mb	116.65	TBtu
DIESEL OIL	1,366,477.65	Mb	0.0055	TBtu/Mb	7,561.75	TBtu
FUEL OIL	65,691.01	Mb	0.0060	TBtu/Mb	392.35	TBtu
OTHER PETROLEUM PRODUCTS	456,802.53	Mb	0.0059	TBtu/Mb	2,716.17	TBtu
NATURAL GAS AND LNG	14,807.58	Bcf	0.9234	TBtu/Bcf	13,673.32	TBtu
NATURAL GAS	14,807.58	Bcf	0.9234	TBtu/Bcf	13,673.32	TBtu
GEOHERMAL HEAT	37.89	TBtu	1.0000	Tbtu/Tbtu	37.89	TBtu
SOLAR HEAT	51.17	TBtu	0.0034	Tbtu/Tbtu	0.17	TBtu
ELECTRICITY	3,475,524.18	MMkWh	0.0034	TBtu/MMkWh	11,858.49	TBtu
TOTAL					60,768.75	TBtu
AGRICULTURE						
COAL	615.03	Mst	0.0233	TBtu/Mst	14.32	TBtu
LPG	17,954.34	Mb	0.0034	TBtu/Mb	61.52	TBtu
MOGAS	19,945.83	Mb	0.0049	TBtu/Mb	98.72	TBtu
KEROSENE	300.25	Mb	0.0054	TBtu/Mb	1.62	TBtu
DIESEL OIL	64,461.04	Mb	0.0055	TBtu/Mb	356.71	TBtu
TOTAL					532.89	TBtu
RESIDENTIAL COMMERCIAL						
COAL	3,355.81	Mst	0.0233	TBtu/Mst	78.12	TBtu
LPG	126,504.83	Mb	0.0034	TBtu/Mb	433.49	TBtu
MOGAS	10,620.62	Mb	0.0049	TBtu/Mb	52.57	TBtu
KEROSENE	17,037.18	Mb	0.0054	TBtu/Mb	91.77	TBtu
DIESEL OIL	221,765.29	Mb	0.0055	TBtu/Mb	1,227.19	TBtu
FUEL OIL	21,916.14	Mb	0.0060	TBtu/Mb	130.90	TBtu
NATURAL GAS AND LNG	8,310.98	Bcf	0.9234	TBtu/Bcf	7,674.36	TBtu
NATURAL GAS	8,310.98	Bcf	0.9234	TBtu/Bcf	7,674.36	TBtu
GEOHERMAL HEAT	33.10	TBtu	1.0000	Tbtu/Tbtu	33.10	TBtu
SOLAR HEAT	51.17	TBtu	0.0034	Tbtu/Tbtu	0.17	TBtu
ELECTRICITY	2,399,120.96	MMkWh	0.0034	TBtu/MMkWh	8,185.80	TBtu
TOTAL					17,907.47	TBtu
OTHERS						
TOTAL						TBtu
INDUSTRY						
COAL	39,076.79	Mst	0.0233	TBtu/Mst	909.64	TBtu
COKE	22,891.15	Mst	0.0236	TBtu/Mst	539.32	TBtu
REFINERY GAS	10,568.26	Mb	0.0057	TBtu/Mb	60.24	TBtu
LPG	656,733.73	Mb	0.0034	TBtu/Mb	2,250.40	TBtu
NAPHTHA	117,857.66	Mb	0.0050	TBtu/Mb	587.59	TBtu
MOGAS	42,019.21	Mb	0.0049	TBtu/Mb	207.97	TBtu
KEROSENE	4,318.96	Mb	0.0054	TBtu/Mb	23.26	TBtu
DIESEL OIL	111,465.28	Mb	0.0055	TBtu/Mb	616.82	TBtu
FUEL OIL	43,475.09	Mb	0.0060	TBtu/Mb	259.66	TBtu
OTHER PETROLEUM PRODUCTS	456,802.53	Mb	0.0059	TBtu/Mb	2,716.17	TBtu
NATURAL GAS AND LNG	7,646.26	Bcf	0.9234	TBtu/Bcf	7,060.56	TBtu
NATURAL GAS	7,646.26	Bcf	0.9234	TBtu/Bcf	7,060.56	TBtu
GEOHERMAL HEAT	5.05	TBtu	1.0000	Tbtu/Tbtu	5.05	TBtu
ELECTRICITY	1,071,983.25	MMkWh	0.0034	TBtu/MMkWh	3,657.61	TBtu
TOTAL					18,894.29	TBtu
TRANSPORT						
LPG	5,077.47	Mb	0.0034	TBtu/Mb	17.40	TBtu
MOGAS	3,223,194.59	Mb	0.0049	TBtu/Mb	15,953.20	TBtu
JET FUEL	584,324.29	Mb	0.0054	TBtu/Mb	3,147.46	TBtu
DIESEL OIL	968,786.03	Mb	0.0055	TBtu/Mb	5,361.02	TBtu
FUEL OIL	299.78	Mb	0.0060	TBtu/Mb	1.79	TBtu
NATURAL GAS AND LNG	686.52	Bcf	0.9234	TBtu/Mcf	633.93	TBtu
NATURAL GAS	686.52	Bcf	0.9234	TBtu/Mcf	633.93	TBtu
ELECTRICITY	4,652.61	MMkWh	0.0034	TBtu/MMkWh	15.87	TBtu
TOTAL					25,130.68	TBtu
NON-ENERGY						
TOTAL NON-ENERGY USE						TBtu

Original Table (Energy Demand and Supply) of United States of America in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER		
COAL	736,728	
OIL		
GAS		
HYDRO POWER	99,739	
NUCLEAR POWER	98,794	
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	17,944	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

Original Table (Disaggregated Final Energy Demand) of United States in 2003

Year: 2003

United States	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL (*1)						
COAL	729.57	Mst	0.0245	TBtu/Mst	17.88	TBtu
HARD COAL	729.57	Mst	0.0245	TBtu/Mst	17.88	TBtu
STEAM COAL	729.57	Mst	0.0245	TBtu/Mst	17.88	TBtu
COKE	5,073.51	Mst	0.0248	TBtu/Mst	125.82	TBtu
COKE OVEN GAS	0.34	TBtu	1.0000	TBtu/TBtu	0.34	TBtu
LPG	248.64	Mb	0.0036	TBtu/Mb	0.90	TBtu
DIESEL OIL	4,876.33	Mb	0.0058	TBtu/Mb	28.40	TBtu
FUEL OIL	3,246.60	Mb	0.0063	TBtu/Mb	20.41	TBtu
NATURAL GAS/LNG	474.92	Bcf	1.0260	TBtu/Bcf	487.26	TBtu
NATURAL GAS	474.92	Bcf	1.0260	TBtu/Bcf	487.26	TBtu
HEAT	6.25	TBtu	1.0000	Tbtu/Tbtu	6.25	TBtu
ELECTRICITY	64,957.38	MMkWh	0.0034	TBtu/MMkWh	221.63	TBtu
TOTAL					908.90	TBtu
1.2 CHEMICAL AND PETROCHEMICAL (*2)						
COAL	9,307.31	Mst	0.0230	TBtu/Mst	213.77	TBtu
HARD COAL	9,011.88	Mst	0.0233	TBtu/Mst	209.93	TBtu
STEAM COAL	7,468.26	Mst	0.0245	TBtu/Mst	183.00	TBtu
SUBBITUMINOUS COAL	1,543.62	Mst	0.0174	TBtu/Mst	26.93	TBtu
LIGNITE	295.42	Mst	0.0130	TBtu/Mst	3.84	TBtu
BRIQUETTES	635.16	Mst	0.0236	TBtu/Mst	15.01	TBtu
REFINERY GAS	10,568.26	Mb	0.0060	TBtu/Mb	63.41	TBtu
LPG	646,343.24	Mb	0.0036	TBtu/Mb	2,331.36	TBtu
NAPHTHA	117,857.66	Mb	0.0052	TBtu/Mb	618.52	TBtu
DIESEL OIL	29,131.79	Mb	0.0058	TBtu/Mb	169.69	TBtu
FUEL OIL	17,585.21	Mb	0.0063	TBtu/Mb	110.56	TBtu
NATURAL GAS/LNG	2,595.83	Bcf	1.0260	TBtu/Bcf	2,663.32	TBtu
NATURAL GAS	2,595.83	Bcf	1.0260	TBtu/Bcf	2,663.32	TBtu
HEAT	102.79	TBtu	1.0000	Tbtu/Tbtu	102.79	TBtu
ELECTRICITY	247,625.80	MMkWh	0.0034	TBtu/MMkWh	844.90	TBtu
OTHERS	47.87	TBtu	1.0000	Tbtu/Tbtu	47.87	TBtu
TOTAL					7,181.20	TBtu
1.3 NON-FERROUS METALS (*3)						
LPG	601.97	Mb	0.0036	TBtu/Mb	2.17	TBtu
DIESEL OIL	1,914.90	Mb	0.0058	TBtu/Mb	11.15	TBtu
FUEL OIL	95.68	Mb	0.0063	TBtu/Mb	0.60	TBtu
NATURAL GAS/LNG	361.62	Bcf	1.0260	TBtu/Bcf	371.02	TBtu
NATURAL GAS	361.62	Bcf	1.0260	TBtu/Bcf	371.02	TBtu
HEAT	2.24	TBtu	1.0000	Tbtu/Tbtu	2.24	TBtu
ELECTRICITY	84,134.62	MMkWh	0.0034	TBtu/MMkWh	287.07	TBtu
TOTAL					674.26	TBtu
1.4 NON-METALLIC MINERAL PRODUCTS (*4)						
COAL	12,571.60	Mst	0.0242	TBtu/Mst	303.87	TBtu
HARD COAL	12,566.81	Mst	0.0242	TBtu/Mst	303.81	TBtu
STEAM COAL	11,982.39	Mst	0.0245	TBtu/Mst	293.61	TBtu
SUBBITUMINOUS COAL	584.42	Mst	0.0174	TBtu/Mst	10.20	TBtu
LIGNITE	4.79	Mst	0.0130	TBtu/Mst	0.06	TBtu
BRIQUETTES	427.42	Mst	0.0236	TBtu/Mst	10.10	TBtu
LPG	654.31	Mb	0.0036	TBtu/Mb	2.36	TBtu
DIESEL OIL	13,344.96	Mb	0.0058	TBtu/Mb	77.73	TBtu
FUEL OIL	472.00	Mb	0.0063	TBtu/Mb	2.97	TBtu
NATURAL GAS/LNG	398.57	Bcf	1.0260	TBtu/Bcf	408.93	TBtu
NATURAL GAS	398.57	Bcf	1.0260	TBtu/Bcf	408.93	TBtu
HEAT	0.14	TBtu	1.0000	Tbtu/Tbtu	0.14	TBtu
ELECTRICITY	39,385.72	MMkWh	0.0034	TBtu/MMkWh	134.38	TBtu
OTHERS	16.51	TBtu	1.0000	Tbtu/Tbtu	16.51	TBtu
TOTAL					957.00	TBtu
1.5 PAPER, PULP AND PRINTING (*5)						
COAL	7,503.80	Mst	0.0238	TBtu/Mst	178.79	TBtu
HARD COAL	7,503.80	Mst	0.0238	TBtu/Mst	178.79	TBtu
STEAM COAL	6,783.52	Mst	0.0245	TBtu/Mst	166.22	TBtu
SUBBITUMINOUS COAL	720.28	Mst	0.0174	TBtu/Mst	12.57	TBtu
BRIQUETTES	303.25	Mst	0.0236	TBtu/Mst	7.17	TBtu
LPG	1,609.61	Mb	0.0036	TBtu/Mb	5.81	TBtu
DIESEL OIL	7,481.49	Mb	0.0058	TBtu/Mb	43.58	TBtu
FUEL OIL	16,941.00	Mb	0.0063	TBtu/Mb	106.51	TBtu
NATURAL GAS/LNG	564.33	Bcf	1.0260	TBtu/Bcf	579.01	TBtu
NATURAL GAS	564.33	Bcf	1.0260	TBtu/Bcf	579.01	TBtu
HEAT	15.21	TBtu	1.0000	Tbtu/Tbtu	15.21	TBtu

Original Table (Disaggregated Final Energy Demand) of United States in 2003 (Continued)

Year: 2003

United States	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	130,314.84	MMkWh	0.0034	TBtu/MMkWh	444.63	TBtu
OTHERS	762.12	TBtu	1.0000	Tbtu/Tbtu	762.12	TBtu
TOTAL					2,142.81	TBtu
1.6 OTHER INDUSTRIES (*6)						
COAL	10,971.64	Mst	0.0222	TBtu/Mst	243.21	TBtu
HARD COAL	10,868.78	Mst	0.0223	TBtu/Mst	241.87	TBtu
STEAM COAL	7,403.26	Mst	0.0245	TBtu/Mst	181.41	TBtu
SUBBITUMINOUS COAL	3,465.52	Mst	0.0174	TBtu/Mst	60.47	TBtu
LIGNITE	102.86	Mst	0.0130	TBtu/Mst	1.34	TBtu
COKE OVEN GAS	28.86	TBtu	1.0000	TBtu/TBtu	28.86	TBtu
BRIQUETTES	431.00	Mst	0.0236	TBtu/Mst	10.18	TBtu
BLAST FURNACE GAS	75.88	TBtu	1.0000	TBtu/TBtu	75.88	TBtu
LPG	7,275.96	Mb	0.0036	TBtu/Mb	26.24	TBtu
MOGAS	42,019.21	Mb	0.0052	TBtu/Mb	218.92	TBtu
KEROSENE	4,318.96	Mb	0.0057	TBtu/Mb	24.49	TBtu
DIESEL OIL	54,715.81	Mb	0.0058	TBtu/Mb	318.72	TBtu
FUEL OIL	5,134.60	Mb	0.0063	TBtu/Mb	32.28	TBtu
NATURAL GAS/LNG	1,414.81	Bcf	1.0260	TBtu/Bcf	1,451.60	TBtu
NATURAL GAS	1,414.81	Bcf	1.0260	TBtu/Bcf	1,451.60	TBtu
GEOHERMAL HEAT	5.05	TBtu	1.0000	Tbtu/Tbtu	5.05	TBtu
HEAT	51.93	TBtu	1.0000	Tbtu/Tbtu	51.93	TBtu
ELECTRICITY	505,564.89	MMkWh	0.0034	TBtu/MMkWh	1,724.99	TBtu
OTHERS	312.31	TBtu	1.0000	Tbtu/Tbtu	312.31	TBtu
TOTAL					4,524.67	TBtu
2 TRANSPORTATION SECTOR						
2.1 AIR (*7)						
JET FUEL	584,324.29	Mb	0.0057	TBtu/Mb	3,313.12	TBtu
TOTAL					3,313.12	ktce
2.2 ROAD						
LPG	5,077.47	Mb	0.0036	TBtu/Mb	18.31	TBtu
MOGAS	3,197,303.61	Mb	0.0052	TBtu/Mb	16,657.95	TBtu
DIESEL OIL	888,493.62	Mb	0.0058	TBtu/Mb	5,175.48	TBtu
NATURAL GAS	18.47	Bcf	1.0260	TBtu/Bcf	18.95	TBtu
OTHERS	43.28	TBtu	1.0000	Tbtu/Tbtu	43.28	TBtu
TOTAL					21,913.97	TBtu
2.3 RAIL						
DIESEL OIL	73,760.95	Mb	0.0058	TBtu/Mb	429.66	TBtu
ELECTRICITY	4,419.98	MMkWh	0.0034	TBtu/MMkWh	15.08	TBtu
TOTAL					444.74	TBtu
2.4 INTERNAL NAVIGATION						
MOGAS	25,890.97	Mb	0.0052	TBtu/Mb	134.89	TBtu
FUEL OIL	299.78	Mb	0.0063	TBtu/Mb	1.88	TBtu
OTHERS	1.80	TBtu	1.0000	Tbtu/Tbtu	1.80	TBtu
TOTAL					138.57	TBtu
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
COAL	3,566.44	Mst	0.0231	TBtu/Mst	82.23	TBtu
LPG	18,975.07	Mb	0.0036	TBtu/Mb	68.44	TBtu
MOGAS	10,620.62	Mb	0.0052	TBtu/Mb	55.33	TBtu
KEROSENE	3,572.19	Mb	0.0057	TBtu/Mb	20.25	TBtu
DIESEL OIL	76,098.92	Mb	0.0058	TBtu/Mb	443.28	TBtu
FUEL OIL	21,916.14	Mb	0.0063	TBtu/Mb	137.79	TBtu
NATURAL GAS	3,199.38	Bcf	1.0260	TBtu/Bcf	3,282.57	TBtu
GEOHERMAL	15.20	TBtu	1.0000	Tbtu/Tbtu	15.20	TBtu
OTHER COMMERCIAL	55.59	TBtu	1.0000	Tbtu/Tbtu	55.59	TBtu
ELECTRICITY	1,118,930.64	MMkWh	0.0034	TBtu/MMkWh	3,817.79	TBtu
HEAT	46.06	TBtu	1.0000	Tbtu/Tbtu	46.06	TBtu
TOTAL					8,024.53	TBtu
3.2 RESIDENTIAL						
LPG	107,529.76	Mb	0.0036	TBtu/Mb	387.86	TBtu
KEROSENE	13,464.99	Mb	0.0057	TBtu/Mb	76.35	TBtu
DIESEL OIL	145,666.37	Mb	0.0058	TBtu/Mb	848.51	TBtu
NATURAL GAS	5,111.60	Bcf	1.0260	TBtu/Bcf	5,244.50	TBtu
GEOHERMAL	17.90	TBtu	1.0000	Tbtu/Tbtu	17.90	TBtu
SOLAR	51.17	TBtu	1.0000	Tbtu/Tbtu	51.17	TBtu
OTHER COMMERCIAL	341.00	TBtu	1.0000	Tbtu/Tbtu	341.00	TBtu
ELECTRICITY	1,280,190.32	MMkWh	0.0034	TBtu/MMkWh	4,368.01	TBtu
TOTAL					11,335.28	TBtu

Original Table (Energy Price) of United States of America in 2003

Year: 2003

United States of America	Unit	Price	Note
IMPORT CIF PRICES			
COAL	US\$/Short Ton	31.090	
STEAM COAL			
COKING COAL			
CRUDE OIL	US\$/barrels	27.710	
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
NATURAL GAS (LNG)	US\$/Thousand cubic Feet	5.160	
WHOLESALE PRICES			
COAL	US\$/Short Ton	17.850	
STEAM COAL			
COKING COAL			
NATURAL GAS, wellhead	US\$/Thousand cubic Feet	4.980	including taxes
TOWN GAS	US\$/Thousand cubic Feet	5.860	including taxes
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	US\$/gallon	1.002	excluding taxes
JET FUEL	US\$/gallon	0.871	excluding taxes
KEROSENE	US\$/gallon	0.955	excluding taxes
DIESEL OIL	US\$/gallon	0.883	excluding taxes
FUEL OIL	US\$/gallon	0.793	excluding taxes
LPG (Propane)	US\$/gallon	0.607	excluding taxes
ELECTRICITY (INDUSTRY)	US\$/Kilowathour	0.050	excluding taxes
ELECTRICITY (COMMERCIAL)	US\$/Kilowathour	0.081	excluding taxes
CONSUMER PRICES			
COAL, Electric Utilities	US\$/Short Ton	25.290	
COAL, Industrial Plants	US\$/Short Ton	34.700	
STEAM COAL			
NATURAL GAS, Residential	US\$/Thousand cubic Feet	9.500	including taxes
NATURAL GAS, Commercial	US\$/Thousand cubic Feet	8.260	including taxes
NATURAL GAS, Industrial	US\$/Thousand cubic Feet	5.780	including taxes
NATURAL GAS, Electric Utilities	US\$/Thousand cubic Feet	5.570	including taxes
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	US\$/gallon	1.156	including taxes
KEROSENE	US\$/gallon	1.224	excluding taxes
DIESEL OIL	US\$/gallon	0.944	excluding taxes
LPG (Propane)	US\$/gallon	0.577	excluding taxes
ELECTRICITY (RESIDENTIAL)	US\$/Kilowathour	0.087	excluding taxes

Original Table (Quarterly) of United States of America in 2004

Coal

Unit: Thousand Short Tons

		Production	Imports	Exports	Stock Changes
2004	JAN.	93,380	1,748	3,447	-10,027
	FEB.	86,490	1,789	2,276	3,808
	MAR.	94,698	1,788	3,965	7,603
	1st quarter	274,568	5,325	9,688	1,384
	APR.	91,759	2,157	5,359	9,148
	MAY.	87,229	2,232	4,910	38
	JUN.	94,961	2,464	4,987	-2,596
	2nd quarter	273,949	6,853	15,256	6,590
	JUL.	92,401	2,531	3,957	-5,627
	AUG.	95,354	2,494	4,067	-6,015
	SEP.	93,647	2,779	4,178	-5,072
	3rd quarter	281,402	7,804	12,203	-16,715
	OCT.	92,635	2,678	3,358	7,162
	NOV.	92,288	2,258	3,144	3,121
	DEC.	95,472	2,361	4,350	-7,948
	4th quarter	280,396	7,297	10,852	2,335
	1,110,315	27,279	47,998	-6,406	

Oil

Unit: 1,000bbl

		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2004	JAN.	174,964	288,982	186	6,169	74,555	23,002	-21,452
	FEB.	161,936	268,482	232	11,020	89,059	30,102	-15,921
	MAR.	174,282	312,263	589	22,320	93,000	31,155	-2,821
	1st quarter	511,182	869,727	1,007	39,509	256,614	84,259	-40,194
	APR.	167,040	301,860	1,650	11,370	71,670	32,970	-3,330
	MAY.	173,972	320,044	806	5,766	82,615	31,806	20,026
	JUN.	162,090	315,150	1,350	3,900	83,880	30,750	24,930
	2nd quarter	503,102	937,054	3,806	21,036	238,165	95,526	41,626
	JUL.	167,523	319,365	549	-5,761	95,706	32,919	24,238
	AUG.	163,682	323,870	409	-11,805	94,302	33,407	21,539
	SEP.	152,737	290,062	1,040	-4,542	85,895	27,795	-9,208
	3rd quarter	483,942	933,297	1,998	-22,108	275,903	94,121	36,569
	OCT.	158,484	320,175	786	13,953	92,839	32,622	-17,860
	NOV.	161,903	303,244	1,253	5,612	93,319	28,495	12,220
	DEC.	168,888	310,560	933	-2,441	90,304	38,857	-10,137
	4th quarter	489,275	933,979	2,973	17,124	276,462	99,975	-15,777
	1,987,501	3,674,057	9,784	55,561	1,047,144	373,880	22,224	

Original Table (Quarterly) of United States of America in 2004 (Continued)

		Natural Gas (or LNG)				Unit: 1,000m ³
		Production	Imports	Exports	Stock Changes	
2004	JAN.	1,616	381	60	-491	
	FEB.	1,531	336	62	-326	
	MAR.	1,634	356	65	188	
	1st quarter	4,781	1,073	187	-629	
	APR.	1,545	317	60	-198	
	MAY.	1,605	329	53	-379	
	JUN.	1,551	318	54	-397	
	2nd quarter	4,701	964	167	-974	
	JUL.	1,605	375	60	-366	
	AUG.	1,601	360	60	-345	
	SEP.	1,489	341	66	-325	
	3rd quarter	4,695	1,076	186	-1,035	
	OCT.	1,566	324	55	-248	
	NOV.	1,472	350	71	65	
	DEC.	1,546	410	74	567	
	4th quarter	4,584	1,084	200	385	
		18,761	4,197	740	-2,254	

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2004	JAN.	344,419	243,585	22,475	70,789	7,570	2,276	2,149
	FEB.	310,531	219,967	21,040	62,676	6,848	1,890	2,007
	MAR.	304,812	211,405	23,659	61,897	7,851	1,762	2,685
	1st quarter	959,762	674,957	67,174	195,362	22,269	5,928	6,840
	APR.	287,978	201,368	20,440	58,635	7,535	2,082	2,077
	MAY.	324,908	228,574	23,324	64,917	8,093	2,448	2,272
	JUN.	342,351	242,136	24,579	67,787	7,849	2,944	2,302
	2nd quarter	955,237	672,078	68,343	191,339	23,477	7,474	6,652
	JUL.	375,574	272,708	22,556	71,975	8,335	4,168	1,271
	AUG.	367,307	267,255	20,938	71,064	8,049	4,777	1,349
	SEP.	334,524	241,182	19,852	65,932	7,559	2,938	1,988
	3rd quarter	1,077,406	781,145	63,346	208,971	23,944	11,883	4,608
	OCT.	311,486	222,760	18,410	62,530	7,786	2,625	1,563
	NOV.	299,606	212,718	20,484	58,941	7,463	3,035	1,539
	DEC.	339,548	237,038	25,822	68,617	8,072	3,266	1,696
	4th quarter	950,640	672,516	64,715	190,088	23,321	8,926	4,798
		3,943,044	2,800,695	263,578	785,760	93,011	34,210	22,898

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

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Energy Balance Table of Viet Nam in 2003

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	10,619	-	17,917	-	-	-	-	-	-
2 Import	-	-	-	10,456	2,283	-	321	429	4,724
3 Export	-4,058	-	-17,452	-562	-51	-	-59	-70	-250
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-323	-	-	-	-	-	-
6 Total Primary Energy Supply	6,562	-	143	9,894	2,232	-	263	359	4,474
7 Public Electricity	-2,225	-	-	-744	-	-	-	-	-64
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	489	-	-	-	-	-
10 Petroleum Refineries	-	-	-	-	-	-	-	-	-
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-143	-	-	-	-	-	-
13 Discrepancy	0	-	0	0	0	-	0	0	0
14 Total Final Energy Consumption	4,337	-	-	9,639	2,232	-	263	359	4,409
15 Industry Sector	3,113	-	-	2,165	-	-	-	10	896
16 Transport Sector	-	-	-	5,561	2,148	-	263	-	2,880
17 Other Sector	1,224	-	-	1,730	84	-	-	349	633
18 Agriculture	24	-	-	410	84	-	-	-	309
19 Residential & Commercial	1,200	-	-	1,320	-	-	-	349	325
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	183	-	-	-	-	-

Energy Balance Table of Viet Nam in 2002

	1 Coal	2 Coal Products	3 Crude Oil	4 Petroleum Products	4.1 Mogas	4.2 Naphtha	4.3 Jet Fuel	4.4 Kerosene	4.5 Diesel Oil
1 Indigenous Production	8,904	-	16,899	-	-	-	-	-	-
2 Import	-	-	-	10,146	2,229	-	284	424	4,504
3 Export	-3,387	-	-16,899	-653	-84	-	-	-15	-405
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-	-	-	-	-	-	-
6 Total Primary Energy Supply	5,517	-	-	9,493	2,145	-	284	409	4,099
7 Public Electricity	-1,500	-	-	-1,257	-	-	-	-	-389
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	525	-	-	-	-	-
10 Petroleum Refineries	-	-	-	-	-	-	-	-	-
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-	-	-	-	-	-
13 Discrepancy	0	-	-	0	0	-	-	0	0
14 Total Final Energy Consumption	4,017	-	-	8,761	2,145	-	284	409	3,710
15 Industry Sector	2,944	-	-	1,947	-	-	-	12	695
16 Transport Sector	-	-	-	4,943	2,063	-	284	-	2,378
17 Other Sector	1,072	-	-	1,691	82	-	-	397	637
18 Agriculture	25	-	-	386	82	-	-	-	289
19 Residential & Commercial	1,047	-	-	1,305	-	-	-	397	347
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	180	-	-	-	-	-

Energy Balance Table of Viet Nam in 2003 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	2,776	-	1,633	-	-	-	-	-	32,944
2,355	321	-	23	-	-	-	-	-	-	-	-	10,456
-132	-	-	-	-	-	-	-	-	-	-	-	-22,071
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-323
2,223	321	-	23	2,776	-	1,633	-	-	-	-	-	21,007
-680	-	-	-	-2,136	-	-1,633	-	-	-	3,520	-	-3,218
-	-	-	-	-	-	-	-	-	-	-	-	-
-	329	-	161	-622	-	-	-	-	-	-	-	-133
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-524	-	-666
0	0	-	0	0	-	-	-	-	-	0	-	0
1,543	650	-	183	18	-	-	-	-	-	2,996	-	16,989
1,172	87	-	-	18	-	-	-	-	-	1,307	-	6,604
270	-	-	-	-	-	-	-	-	-	10	-	5,571
101	562	-	-	-	-	-	-	-	-	1,678	-	4,632
17	-	-	-	-	-	-	-	-	-	48	-	481
84	562	-	-	-	-	-	-	-	-	1,631	-	4,151
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	183	-	-	-	-	-	-	-	-	183

Energy Balance Table of Viet Nam in 2002 (Continued)

												ktoe
4.6	4.7	4.8	4.9	5	6	7	8	9	10	11	12	13
Fuel Oil	LPG	Refinery Gas	Other Petroleum Products	Gas	Town Gas	Hydro	Nuclear	Geothermal Solar etc.	Others	Electricity	Heat	Total
-	-	-	-	2,845	-	1,565	-	-	-	-	-	30,213
2,563	108	-	35	-	-	-	-	-	-	-	-	10,146
-149	-	-	-	-	-	-	-	-	-	-	-	-20,939
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
2,414	108	-	35	2,845	-	1,565	-	-	-	-	-	19,419
-869	-	-	-	-2,295	-	-1,565	-	-	-	3,078	-	-3,539
-	-	-	-	-	-	-	-	-	-	-	-	-
-	380	-	146	-531	-	-	-	-	-	-	-	-6
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-493	-	-493
0	-	-	0	0	-	-	-	-	-	0	-	0
1,546	487	-	180	19	-	-	-	-	-	2,586	-	15,383
1,168	72	-	-	19	-	-	-	-	-	1,091	-	6,001
218	-	-	-	-	-	-	-	-	-	26	-	4,969
160	416	-	-	-	-	-	-	-	-	1,469	-	4,233
15	-	-	-	-	-	-	-	-	-	43	-	455
145	416	-	-	-	-	-	-	-	-	1,426	-	3,778
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	180	-	-	-	-	-	-	-	-	180

Major Energy Indicators of Viet Nam

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total									
Primary Energy Supply	-	-	-	-	-	-	-	5,414	5,423
Indigenous Production	-	-	-	-	-	-	-	5,811	7,492
Import	-	-	-	-	-	-	-	2,947	2,647
Export	-	-	-	-	-	-	-	-3,125	-4,669
Final Energy Consumption	-	-	-	-	-	-	-	4,212	4,461
Industry	-	-	-	-	-	-	-	1,713	1,886
Transport	-	-	-	-	-	-	-	1,412	1,336
Residential & Commercial	-	-	-	-	-	-	-	815	971
Agriculture	-	-	-	-	-	-	-	244	240
Coal, Coal Products									
Primary Energy Supply	-	-	-	-	-	-	-	2,212	2,138
Indigenous Production	-	-	-	-	-	-	-	2,597	2,851
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-442	-657
Transformation Sector	-	-	-	-	-	-	-	-888	-538
Power Generation	-	-	-	-	-	-	-	-888	-538
Final Energy Consumption	-	-	-	-	-	-	-	1,324	1,600
Industry	-	-	-	-	-	-	-	1,019	1,142
Transport	-	-	-	-	-	-	-	14	23
Residential & Commercial	-	-	-	-	-	-	-	226	366
Agriculture	-	-	-	-	-	-	-	64	69
Crude Oil									
Primary Energy Supply	-	-	-	-	-	-	-	-0	0
Indigenous Production	-	-	-	-	-	-	-	2,750	4,072
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-2,664	-3,988
Transformation Sector	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Petroleum Products									
Primary Energy Supply	-	-	-	-	-	-	-	2,737	2,717
Import	-	-	-	-	-	-	-	2,947	2,647
Export	-	-	-	-	-	-	-	-19	-24
Transformation Sector	-	-	-	-	-	-	-	-381	-431
Power Generation	-	-	-	-	-	-	-	-381	-431
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	2,356	2,286
Industry	-	-	-	-	-	-	-	449	470
Transport	-	-	-	-	-	-	-	1,393	1,308
Residential & Commercial	-	-	-	-	-	-	-	340	344
Agriculture	-	-	-	-	-	-	-	146	136
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	3	25
Indigenous Production	-	-	-	-	-	-	-	3	25
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-3	-16
Power Generation	-	-	-	-	-	-	-	-3	-16
Final Energy Consumption	-	-	-	-	-	-	-	-	9
Industry	-	-	-	-	-	-	-	-	9
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	-	-	-	-	-	-	-	746	792
Thermal	-	-	-	-	-	-	-	285	249
Hydro	-	-	-	-	-	-	-	462	543
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	532	566
Industry	-	-	-	-	-	-	-	245	265
Transport	-	-	-	-	-	-	-	5	5
Residential & Commercial	-	-	-	-	-	-	-	249	261
Agriculture	-	-	-	-	-	-	-	34	35

Major Energy Indicators of Viet Nam (Continued)

ktoe											
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
5,968	6,951	7,732	9,123	10,313	11,682	13,042	13,641	14,841	16,611	19,419	21,007
9,038	10,423	11,237	13,562	15,777	18,157	21,151	23,359	25,777	27,434	30,213	32,944
3,186	4,172	4,624	5,101	6,011	6,075	6,984	7,547	8,885	9,239	10,146	10,456
-6,453	-7,066	-8,232	-9,816	-11,495	-12,204	-14,770	-17,585	-18,650	-20,230	-20,939	-22,071
5,096	6,148	6,701	7,932	8,849	9,663	10,383	11,087	11,927	13,428	15,383	16,989
2,029	2,189	2,281	3,099	3,365	3,956	4,179	4,302	4,653	5,259	6,001	6,604
1,504	2,333	2,576	2,525	2,767	2,992	3,183	3,464	3,763	4,075	4,969	5,571
1,006	1,207	1,417	1,688	2,073	2,145	2,462	2,626	2,973	3,448	3,778	4,151
262	362	385	366	398	422	429	425	400	401	455	481
2,143	2,073	2,291	3,314	3,579	4,544	4,577	4,227	4,372	5,024	5,517	6,562
2,800	3,304	3,192	4,676	5,501	6,377	6,536	5,392	6,501	7,259	8,904	10,619
-	-	-	-	-	-	-	-	-	-	-	-
-909	-802	-1,158	-1,580	-2,042	-1,934	-1,771	-1,826	-1,821	-2,402	-3,387	-4,058
-374	-290	-468	-710	-886	-1,217	-1,275	-1,062	-1,150	-1,281	-1,500	-2,225
-374	-290	-468	-710	-886	-1,217	-1,275	-1,062	-1,150	-1,281	-1,500	-2,225
1,770	1,782	1,823	2,603	2,692	3,327	3,302	3,166	3,223	3,743	4,017	4,337
1,240	1,248	1,259	1,938	1,948	2,472	2,453	2,314	2,339	2,807	2,944	3,113
21	14	11	2	-	-	-	-	-	-	-	-
428	437	465	589	678	801	813	828	860	911	1,047	1,200
81	84	87	76	67	54	36	24	24	25	25	24
-0	-	-0	-	-0	0	0	-	20	13	-	143
5,599	6,413	7,228	7,790	8,961	10,272	12,725	15,491	16,584	17,046	16,899	17,917
-	-	-	-	-	-	-	-	-	-	-	-
-5,544	-6,264	-7,074	-7,790	-8,862	-9,811	-12,364	-15,150	-15,701	-17,033	-16,899	-17,452
-	-	-	-	-	-	-	-	-20	-13	-	-143
-	-	-	-	-	-	-	-	-	-	-	-
3,186	4,172	4,624	4,713	5,420	5,630	6,576	6,938	7,757	8,444	9,493	9,894
3,186	4,172	4,624	5,101	6,011	6,075	6,984	7,547	8,885	9,239	10,146	10,456
-	-	-	-446	-591	-459	-636	-609	-1,128	-795	-653	-562
-470	-494	-560	-369	-434	-629	-1,039	-715	-997	-988	-732	-255
-470	-494	-560	-369	-434	-629	-1,048	-967	-1,310	-1,407	-1,257	-744
-	-	-	-	-	-	-	-	-	-	-	-
2,716	3,677	4,064	4,344	4,985	5,001	5,538	6,221	6,759	7,456	8,761	9,639
499	628	666	743	923	934	1,125	1,318	1,515	1,533	1,947	2,165
1,477	2,312	2,557	2,514	2,757	2,981	3,170	3,447	3,742	4,050	4,943	5,561
300	440	540	583	771	615	770	834	1,026	1,291	1,305	1,320
145	239	258	249	288	323	345	351	339	336	386	410
17	21	23	186	282	506	935	1,292	1,440	1,563	2,845	2,776
17	21	23	186	282	506	935	1,292	1,440	1,563	2,845	2,776
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-3	-6	-6	-165	-261	-486	-916	-1,273	-1,422	-1,548	-2,826	-2,758
-3	-6	-6	-165	-253	-479	-810	-924	-1,102	-1,106	-2,295	-2,136
15	14	16	22	21	20	19	19	18	15	19	18
15	14	16	22	21	20	19	19	18	15	19	18
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
835	917	1,057	1,260	1,457	1,645	1,865	2,026	2,284	2,632	3,078	3,520
213	232	262	350	425	643	911	841	1,033	1,066	1,513	1,887
622	685	795	910	1,033	1,002	954	1,185	1,251	1,566	1,565	1,633
-	-	-	-	-	-	-	-	-	-	-	-
596	674	798	963	1,150	1,316	1,524	1,681	1,927	2,214	2,586	2,996
275	299	339	397	473	530	583	651	782	903	1,091	1,307
6	7	8	9	10	11	14	17	21	25	26	10
278	330	412	516	624	729	879	964	1,088	1,246	1,426	1,631
37	38	40	41	43	46	48	50	37	40	43	48

Major Economic Indicators of Viet Nam

	1980	1984	1985	1986	1987	1988	1989	1990
Population (Millions) *1	53.70	57.69	58.87	60.25	61.75	63.26	64.77	66.20
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	N.A.	10.66	11.07	11.38	11.78	12.39	13.30	13.98
Real Term (Billions of 1995 Price and 1995 PPP)	N.A.	53.32	55.35	56.90	58.94	61.96	66.53	69.92
Nominal (Billions of Current USD)	N.A.	N.A.	N.A.	26.34	36.66	25.42	6.29	6.47
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	N.A.	185	188	189	191	196	205	211
Real Term (1995 Price and 1995 PPP)	N.A.	924	940	944	954	979	1,027	1,056
Nominal (Current USD)	N.A.	N.A.	N.A.	437	594	402	97	98
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	N.A.	N.A.	117	599.00	2,870	15,420	28,093	41,955
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	24,645	35,559
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2,204	5,177
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3,699	N.A.
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	N.A.	N.A.	N.A.	39.67	172.24	608.36	6,700	15,120
Imports of Goods and Services	N.A.	N.A.	N.A.	99.41	424.68	2,314	9,567	18,996
Real GDP & its Components (Billions of 1994 VND) *1								
Gross Domestic Product	N.A.	100,551	104,378	107,289	111,134	116,841	125,445	131,844
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Exports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	20,042	22,632
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	31,930	30,495
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	N.A.	35.3	35.4	33.7	33.3	33.2	31.9
Industry	N.A.	N.A.	25.3	27.3	28.6	28.5	25.9	25.2
Services, etc.	N.A.	N.A.	39.4	37.4	37.7	38.2	41.0	42.9
Industrial Production Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	0.338	0.649	0.698	0.789	0.854	1.038	1.946	2.404
Imports, c.i.f.	1.314	1.745	1.857	2.155	2.455	2.756	2.565	2.752
Balance of Payments (Billions of Current USD) *1								
Trade Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Current Account	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Overall Balance	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Foreign Exchange Rate (VND/USD) *1	N.A.	N.A.	N.A.	22.74	78.29	606.52	4,464	6,483
Purchasing Power Parity (VND/International Dollar) *1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	503	641
Price Indices								
GDP Deflator (1994=100) *3	N.A.	N.A.	0.1	0.6	2.6	13.2	22.4	31.8
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.	N.A.	N.A.	N.A.	N.A.	N.A.
Growth Rate (%) *3								
Real GDP	N.A.	N.A.	3.81	2.79	3.58	5.14	7.36	5.10
Population	2.14	1.83	2.04	2.35	2.49	2.45	2.39	2.20
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.	N.A.	N.A.	N.A.	N.A.

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

Major Economic Indicators of Viet Nam (Continued)

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
67.61	68.99	70.35	71.68	72.98	74.30	75.46	76.52	77.52	78.52	79.49	80.42	81.31
14.81	16.09	17.39	18.93	20.74	22.67	24.52	25.93	27.17	29.02	31.02	33.20	35.61
74.09	80.49	86.99	94.68	103.71	113.40	122.64	129.71	135.91	145.13	155.14	166.06	752.74
7.64	9.87	13.18	16.28	20.74	24.66	26.84	27.21	28.68	31.17	32.69	35.06	39.05
219	233	247	264	284	305	325	339	351	370	390	413	438
1,096	1,167	1,237	1,321	1,421	1,526	1,625	1,695	1,753	1,848	1,952	2,065	2,190
113	143	187	227	284	332	356	356	370	397	411	436	480
76,707	110,532	140,258	178,534	228,892	272,036	313,623	361,017	399,942	441,646	481,295	535,672	605,586
62,755	88,943	106,440	133,299	168,492	202,509	225,084	255,921	274,553	293,507	312,144	348,747	392,200
6,204	6,371	10,279	14,738	18,741	22,722	25,500	27,523	27,137	28,346	30,463	33,390	41,800
N.A.	N.A.	N.A.	43,325	58,187	71,597	83,734	97,551	102,799	122,101	140,301	166,828	199,700
N.A.	N.A.	N.A.	2,158	3,944	4,853	5,020	7,324	7,704	8,670	9,732	11,155	12,800
23,714	38,405	40,286	60,725	75,106	111,177	135,180	161,910	199,836	243,049	262,864	294,569	361,311
27,639	42,921	52,582	77,591	95,925	141,016	160,706	188,281	211,254	253,927	274,085	319,017	409,615
139,703	151,782	164,035	178,534	195,567	213,833	231,265	244,596	256,272	273,666	292,535	313,135	335,821
N.A.	N.A.	N.A.	133,299	142,917	155,909	165,125	172,498	176,976	182,420	190,457	204,113	220,291
N.A.	N.A.	N.A.	14,738	15,976	17,163	17,850	18,425	17,374	18,245	19,450	20,497	21,770
N.A.	N.A.	N.A.	43,325	49,715	56,678	62,438	70,187	71,294	78,552	86,972	98,160	112,065
N.A.	N.A.	N.A.	2,158	3,534	4,148	4,091	4,744	4,536	4,944	5,515	6,096	6,780
29,390	36,641	39,985	60,725	76,177	118,571	118,571	123,669	152,731	191,220	198,868	220,744	266,659
28,556	33,923	48,110	77,591	108,456	156,296	191,540	196,520	198,682	267,227	273,374	334,063	426,933
30.7	30.2	28.9	27.4	26.2	25.1	24.2	23.7	23.8	23.3	22.4	21.8	21.0
25.6	26.6	27.7	28.9	29.9	31.3	32.6	33.4	34.4	35.4	36.6	37.4	38.8
43.7	43.2	43.4	43.7	43.8	43.6	43.2	42.9	41.9	41.3	41.0	40.8	40.3
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2.087	2.581	2.985	4.054	5.449	7.255	9.185	9.361	11.540	14.449	15.100	16.530	20.176
2.338	2.541	3.532	5.826	8.155	11.144	11.592	11.500	11.742	15.638	15.999	19.000	24.863
N.A.	N.A.	N.A.	N.A.	N.A.	-2.775	-1.247	-0.989	0.972	0.375	0.481	-1.054	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	-2.020	-1.528	-1.074	1.177	1.106	0.682	-0.604	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	0.278	0.328	0.037	1.310	0.110	0.206	0.448	N.A.
10,037	11,202	10,641	10,966	11,038	11,033	11,683	13,268	13,943	14,168	14,725	15,280	15,510
1,081	1,429	1,634	1,896	2,207	2,342	2,450	2,637	2,762	2,793	2,784	2,891	2,991
54.9	72.8	85.5	100.0	117.0	127.2	135.6	147.6	156.1	161.4	164.5	171.1	180.3
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	83.5	88.3	91.1	97.7	101.7	100.0	99.6	103.4	106.6
5.96	8.65	8.07	8.84	9.54	9.34	8.15	5.76	4.77	6.79	6.89	7.04	7.24
2.12	2.05	1.97	1.89	1.81	1.81	1.56	1.40	1.30	1.30	1.24	1.17	1.11
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	N.A.	5.7	3.2	7.3	4.1	-1.7	-0.4	3.8	3.1

Original Table (Energy Demand and Supply) of Viet Nam in 2003

Year:2003

Viet Nam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL	18,963.00	kt	0.5600	ktoe/kt	10,619.28	ktoe
CRUDE OIL AND NGL/CONDENSATE	17,600.00	Mm ³	1.0180	ktoe/Mm ³	17,916.80	ktoe
CRUDE OIL	17,600.00	kt	1.0180	ktoe/kt	17,916.80	ktoe
NATURAL GAS AND LNG	3,084.00	Mm ³	0.9000	ktoe/Mm ³	2,775.60	ktoe
NATURAL GAS	3,084.00	Mm ³	0.9000	ktoe/Mm ³	2,775.60	ktoe
HYDRO POWER	18,986.09	GWh	0.0860	ktoe/GWh	1,632.80	ktoe
TOTAL PRODUCTION					32,944.48	ktoe
OPENING STOCKS						
TOTAL OPENING STOCKS						ktoe
CLOSING STOCKS						
TOTAL CLOSING STOCKS						ktoe
STOCK CHANGE						
CRUDE OIL AND NGL/CONDENSATE	-317.00	Mm ³	1.0180	ktoe/Mm ³	-322.71	ktoe
CRUDE OIL	-317.00	kt	1.0180	ktoe/kt	-322.71	ktoe
TOTAL STOCK CHANGE					-322.71	ktoe
IMPORTS						
LPG	295.00	kt	1.0880	ktoe/kt	320.96	ktoe
MOGAS	2,174.60	kt	1.0500	ktoe/kt	2,283.33	ktoe
JET FUEL	311.40	kt	1.0320	ktoe/kt	321.36	ktoe
KEROSENE	415.40	kt	1.0320	ktoe/kt	428.69	ktoe
DIESEL OIL	4,654.40	kt	1.0150	ktoe/kt	4,724.22	ktoe
FUEL OIL	2,376.40	kt	0.9910	ktoe/kt	2,355.01	ktoe
OTHER PETROLEUM PRODUCTS	22.80	kt	0.9910	ktoe/kt	22.59	ktoe
TOTAL IMPORTS					10,456.17	ktoe
EXPORTS						
COAL	7,246.00	kt	0.5600	ktoe/kt	4,057.76	ktoe
CRUDE OIL AND NGL/CONDENSATE	17,143.00	Mm ³	1.0180	ktoe/Mm ³	17,451.57	ktoe
CRUDE OIL	17,143.00	kt	1.0180	ktoe/kt	17,451.57	ktoe
MOGAS	48.80	kt	1.0500	ktoe/kt	51.24	ktoe
JET FUEL	56.70	kt	1.0320	ktoe/kt	58.51	ktoe
KEROSENE	67.50	kt	1.0320	ktoe/kt	69.66	ktoe
DIESEL OIL	246.70	kt	1.0150	ktoe/kt	250.40	ktoe
FUEL OIL	133.20	kt	0.9910	ktoe/kt	132.00	ktoe
TOTAL EXPORTS					22,071.15	ktoe
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY					21,006.80	ktoe
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
REFINING						
GAS PROCESSING						
NATURAL GAS AND LNG	691.00	Mm ³	0.9000	ktoe/Mm ³	621.90	ktoe
NATURAL GAS	691.00	Mm ³	0.9000	ktoe/Mm ³	621.90	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
COAL	3,973.28	kt	0.5600	ktoe/kt	2,225.04	ktoe
DIESEL OIL	63.25	kt	1.0150	ktoe/kt	64.20	ktoe
FUEL OIL	686.24	kt	0.9910	ktoe/kt	680.06	ktoe
NATURAL GAS AND LNG	2,373.00	Mm ³	0.9000	ktoe/Mm ³	2,135.70	ktoe
NATURAL GAS	2,373.00	Mm ³	0.9000	ktoe/Mm ³	2,135.70	ktoe
HYDRO POWER	18,986.09	GWh	0.0860	ktoe/GWh	1,632.80	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
GAS RECOVERING						
REFINING						
GAS PROCESSING						
LPG	302.03	kt	1.0880	ktoe/kt	328.61	ktoe
OTHER PETROLEUM PRODUCTS	162.00	kt	0.9910	ktoe/kt	160.54	ktoe
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL	21,938.80	GWh	0.0860	ktoe/GWh	1,886.74	ktoe
COAL	7,236.80	GWh	0.0860	ktoe/GWh	622.37	ktoe
OIL	2,658.24	GWh	0.0860	ktoe/GWh	228.61	ktoe
GAS	12,043.76	GWh	0.0860	ktoe/GWh	1,035.76	ktoe
HYDRO POWER	18,986.09	GWh	0.0860	ktoe/GWh	1,632.80	ktoe
POWER GENERATION (AUTO PRODUCERS)						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						
CRUDE OIL AND NGL/CONDENSATE	140.00	Mm ³	1.0180	ktoe/Mm ³	142.52	ktoe
CRUDE OIL	140.00	kt	1.0180	ktoe/kt	142.52	ktoe
ELECTRICITY	6,090.00	GWh	0.0860	ktoe/GWh	523.74	ktoe
TOTAL LOSSES AND OWN USE					666.26	ktoe
FINAL ENERGY CONSUMPTION TOTAL						
COAL	7,744.00	kt	0.5600	ktoe/kt	4,336.64	ktoe
LPG	597.00	kt	1.0880	ktoe/kt	649.54	ktoe
MOGAS	2,125.87	kt	1.0500	ktoe/kt	2,232.09	ktoe
JET FUEL	254.70	kt	1.0320	ktoe/kt	262.85	ktoe
KEROSENE	348.00	kt	1.0320	ktoe/kt	359.14	ktoe
DIESEL OIL	4,344.00	kt	1.0150	ktoe/kt	4,409.16	ktoe
FUEL OIL	1,556.96	kt	0.9910	ktoe/kt	1,542.95	ktoe
OTHER PETROLEUM PRODUCTS	184.80	kt	0.9910	ktoe/kt	183.14	ktoe
NATURAL GAS AND LNG	20.00	Mm ³	0.9000	ktoe/Mm ³	18.00	ktoe

Original Table (Energy Demand and Supply) of Viet Nam in 2003 (Continued)

Year:2003

Viet Nam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	34,835.03	GWh	0.0860	ktoe/GWh	2,995.81	ktoe
TOTAL					16,989.31	ktoe
AGRICULTURE						
COAL	42.00	kt	0.5600	ktoe/kt	23.52	ktoe
MOGAS	80.06	kt	1.0500	ktoe/kt	84.06	ktoe
DIESEL OIL	304.00	kt	1.0150	ktoe/kt	308.56	ktoe
FUEL OIL	17.30	kt	0.9910	ktoe/kt	17.15	ktoe
ELECTRICITY	555.38	GWh	0.0860	ktoe/GWh	47.76	ktoe
TOTAL					481.05	ktoe
RESIDENTIAL COMMERCIAL						
COAL	2,143.00	kt	0.5600	ktoe/kt	1,200.08	ktoe
LPG	517.00	kt	1.0880	ktoe/kt	562.50	ktoe
KEROSENE	338.00	kt	1.0320	ktoe/kt	348.82	ktoe
DIESEL OIL	320.00	kt	1.0150	ktoe/kt	324.80	ktoe
FUEL OIL	84.96	kt	0.9910	ktoe/kt	84.20	ktoe
ELECTRICITY	18,961.69	GWh	0.0860	ktoe/GWh	1,630.70	ktoe
TOTAL					4,151.09	ktoe
OTHERS						
TOTAL						ktoe
INDUSTRY						
COAL	5,559.00	kt	0.5600	ktoe/kt	3,113.04	ktoe
LPG	80.00	kt	1.0880	ktoe/kt	87.04	ktoe
KEROSENE	10.00	kt	1.0320	ktoe/kt	10.32	ktoe
DIESEL OIL	883.00	kt	1.0150	ktoe/kt	896.25	ktoe
FUEL OIL	1,182.15	kt	0.9910	ktoe/kt	1,171.51	ktoe
NATURAL GAS AND LNG	20.00	Mm ³	0.9000	ktoe/Mm ³	18.00	ktoe
ELECTRICITY	15,201.85	GWh	0.0860	ktoe/GWh	1,307.36	ktoe
TOTAL					6,603.51	ktoe
TRANSPORT						
MOGAS	2,045.74	kt	1.0500	ktoe/kt	2,148.03	ktoe
JET FUEL	254.70	kt	1.0320	ktoe/kt	262.85	ktoe
DIESEL OIL	2,837.00	kt	1.0150	ktoe/kt	2,879.56	ktoe
FUEL OIL	272.55	kt	0.9910	ktoe/kt	270.09	ktoe
ELECTRICITY	116.12	GWh	0.0860	ktoe/GWh	9.99	ktoe
TOTAL					5,570.51	ktoe
NON-ENERGY						
OTHER PETROLEUM PRODUCTS	184.80	kt	0.9910	ktoe/kt	183.14	ktoe
TOTAL NON-ENERGY USE					183.14	ktoe

Original Table (Energy Demand and Supply) of Viet Nam in 2003 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2003

unit: MW

THERMAL POWER	4,711.8	
COAL	1,245.0	
OIL	817.4	
GAS	2,649.4	
HYDRO POWER	4,128.3	
NUCLEAR POWER		
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION	2,479.6	
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of 2003

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2003

unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

3.22 APEC Region

3.22.1 Primary Energy Supply Table

Primary Energy Supply Table in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal & Coal Products									
Indigenous Production	179,753	-	32,890	383	791,841	-	62,138	683	1,410
Import	-	-	14,326	1,975	5,583	6,409	-	101,486	43,599
Export	-128,502	-	-17,554	-	-55,896	-9	-46,586	-1,369	-
Stock Change	-1,858	-	2,123	-68	-2,643	-	-	43	248
Total	49,393	-	31,784	2,289	738,884	6,401	15,551	100,844	45,257
Crude oil & Petroleum Products									
Indigenous Production	31,726	10,296	153,298	181	161,123	-	53,003	712	-
Import	28,875	13	58,737	12,293	123,133	13,461	24,084	267,683	137,985
Export	-22,077	-9,637	-106,971	-1,652	-22,284	-1,107	-30,966	-15,482	-28,379
Stock Change	70	12	-2,411	206	-609	105	-	-2,100	-532
Total	37,666	684	102,148	9,862	261,364	7,319	45,939	250,813	109,075
Natural Gas									
Indigenous Production	34,514	11,479	150,631	1,829	29,339	-	63,621	2,500	-
Import	-	-	7,949	5,123	-	1,237	-	69,284	22,738
Export	-9,285	-8,396	-83,324	-	-1,569	-	-27,954	-	-
Stock Change	-	30	3,939	-241	-	-	-	-2	-380
Total	25,229	3,113	79,195	6,711	27,770	1,237	35,667	71,782	22,358
Nuclear Power									
Indigenous Production	-	-	18,409	-	11,295	-	-	60,048	33,790
Hydro Power									
Indigenous Production	1,414	-	28,736	1,944	24,405	-	783	8,325	592
Geothermal, Solar, etc									
Indigenous Production	148	-	17	-	-	-	5,413	3,807	-
Primary Energy									
Indigenous Production	257,241	21,774	395,326	9,896	1,022,632	-	184,957	78,632	39,033
Import	28,875	13	83,114	19,558	128,973	22,001	24,084	438,453	204,323
Export	-159,865	-18,033	-210,528	-3,164	-80,639	-1,374	-105,506	-16,851	-28,379
Stock Change	-1,788	43	3,650	-106	-3,252	105	-	-2,059	-664
Total	123,536	3,798	271,059	25,018	1,067,714	15,592	103,353	498,176	214,313

Primary Energy Supply Table in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Coal & Coal Products									
Indigenous Production	178,868	-	33,023	288	655,513	-	56,206	699	1,418
Import	-	-	14,129	2,014	5,361	5,229	-	96,520	42,740
Export	-124,781	-	-16,473	-	-50,363	-2	-40,332	-1,573	-
Stock Change	-3,882	-	-1,567	182	-5,799	-158	-	183	210
Total	50,205	-	29,113	2,484	604,712	5,069	15,873	95,829	44,369
Crude oil & Petroleum Products									
Indigenous Production	33,169	10,124	141,080	223	158,653	-	57,692	628	-
Import	27,515	19	53,568	11,986	94,754	13,205	29,310	254,994	137,308
Export	-24,888	-9,522	-100,935	-939	-18,947	-1,058	-35,978	-16,129	-32,081
Stock Change	663	40	109	-170	948	244	-	4,911	1,383
Total	35,683	661	92,940	10,165	235,408	7,642	50,841	244,404	99,850
Natural Gas									
Indigenous Production	34,450	10,644	153,585	2,134	27,367	-	55,246	2,261	-
Import	-	-	3,028	4,403	-	1,924	-	62,146	20,440
Export	-8,887	-7,995	-88,207	-	-	-	-27,764	-	-
Stock Change	-	10	6,869	-333	-	-	-	-11	366
Total	25,563	2,660	75,276	6,203	27,367	1,924	27,483	64,395	20,805
Nuclear Power									
Indigenous Production	-	-	19,679	-	6,548	-	-	82,072	31,039
Hydro Power									
Indigenous Production	1,385	-	29,829	1,994	24,774	-	855	7,461	457
Geothermal, Solar, etc									
Indigenous Production	127	-	17	-	-	-	5,364	3,810	-
Primary Energy									
Indigenous Production	254,266	20,769	388,533	10,558	877,366	-	175,363	99,601	35,839
Import	27,515	19	72,108	18,558	100,314	21,233	29,310	413,660	200,488
Export	-158,557	-17,516	-208,719	-2,570	-70,145	-1,247	-104,074	-17,702	-32,081
Stock Change	-3,219	49	5,412	-338	-4,851	85	-	5,083	1,958
Total	119,230	3,320	256,452	25,274	902,683	15,323	100,416	500,643	199,445

Primary Energy Supply Table in 2003 (Continued)

												ktoe	
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
107	4,607	3,089	-	11	882	107,020	-	-	5,520	525,496	10,619	1,726,449	
5,268	4,817	272	-	667	3,079	9,635	9	33,746	4,543	16,556	-	251,970	
-36	-1	-1,585	-	-	-	-25,281	-0	-	-	-25,512	-4,058	-306,390	
378	-208	-	-	95	-	-974	-	-71	-353	14,111	-	10,822	
5,717	9,215	1,777	-	773	3,961	90,400	8	33,675	9,710	530,650	6,562	1,682,852	
37,026	176,307	1,316	2,427	4,615	674	420,675	-	39	7,736	350,812	17,917	1,429,881	
15,142	9,354	6,900	1,340	6,000	16,861	5,769	86,653	52,516	39,948	645,302	10,456	1,562,506	
-27,719	-103,907	-1,041	-2,427	-3,449	-2,229	-298,542	-45,507	-9,761	-7,993	-50,555	-18,013	-809,698	
676	558	24	-	-1,035	-148	1,239	-	992	1,337	-4,927	-323	-6,866	
25,053	82,312	6,949	1,340	6,131	14,375	129,140	16,618	40,962	41,027	921,410	10,037	2,120,225	
46,123	42,085	3,858	132	1,720	2,628	499,830	-	666	18,984	446,585	2,776	1,359,299	
1,501	8,356	-	-	-	-	7,072	3,285	6,505	7,071	92,843	-	232,964	
-20,367	-	-	-	-	-	-152,983	-	-	-	-15,829	-	-319,708	
-	-2,912	0	-	-	-	-11,319	-	43	-	-4,430	-	-15,272	
27,257	47,529	3,858	132	1,720	2,628	342,600	3,285	7,214	26,054	519,169	2,776	1,257,284	
-	2,736	-	-	-	-	39,180	-	10,135	-	205,443	-	381,036	
435	1,698	2,037	80	1,594	677	13,564	-	593	628	23,960	1,633	113,098	
-	5,108	2,858	-	55	8,447	279	-	-	2	9,570	-	35,705	
83,691	240,810	14,374	2,640	7,995	13,308	1,086,633	123	11,432	32,868	1,568,520	32,944	5,104,829	
21,911	22,533	7,172	1,340	6,667	19,940	23,184	89,947	92,768	51,776	755,562	10,456	2,052,651	
-48,139	-103,990	-2,626	-2,427	-3,449	-2,229	-478,666	-45,508	-9,761	-8,019	-92,575	-22,071	-1,443,798	
1,054	-2,585	25	-	-940	-148	-10,983	-	964	983	4,754	-323	-11,271	
58,445	156,768	18,694	1,553	10,273	30,088	620,168	20,035	92,579	77,608	2,217,039	21,007	5,646,813	

Primary Energy Supply Table in 2002 (Continued)

												ktoe	
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
223	5,261	2,713	-	15	729	98,937	-	-	5,742	543,860	8,904	1,592,401	
3,442	3,914	56	-	734	3,310	7,935	7	32,042	3,597	11,938	-	232,968	
-37	-2	-1,391	-	-	-	-20,593	-0	-	-	-24,767	-3,387	-283,702	
505	-913	-	-	34	-57	2,605	-	-776	-34	701	-	-8,767	
4,133	8,259	1,378	-	783	3,982	88,884	7	31,266	9,305	531,733	5,517	1,532,900	
34,838	165,304	1,701	2,552	4,687	719	379,059	-	44	6,280	362,943	16,899	1,376,594	
14,537	11,243	6,524	1,170	5,083	16,933	6,272	85,394	47,558	37,490	551,701	10,146	1,416,710	
-26,258	-92,708	-1,368	-2,552	-2,918	-1,994	-259,284	-43,091	-6,207	-8,243	-45,938	-17,552	-748,589	
-719	-3,192	-126	-	-145	299	-167	-	1,042	1,445	2,698	-	9,262	
22,308	80,647	6,398	1,170	6,707	15,167	125,880	19,534	40,136	36,972	835,071	9,493	1,977,079	
45,002	41,024	5,058	144	1,660	1,724	479,544	-	710	18,012	442,772	2,845	1,324,183	
-	6,302	-	-	-	-	5,832	2,326	6,238	6,525	92,979	-	212,143	
-18,901	-39	-	-	-	-	-149,871	-0	-	-	-11,778	-	-313,441	
-	-2,765	-0	-	-	-	-9,847	-	70	-	11,368	-	5,726	
26,101	44,523	5,058	144	1,660	1,724	325,658	2,326	7,018	24,537	535,341	2,845	1,228,610	
-	2,540	-	-	-	-	36,909	-	10,307	-	203,256	-	392,350	
456	2,138	2,168	80	1,551	605	14,120	-	547	643	21,963	1,565	112,590	
-	4,642	2,939	-	55	8,809	135	-	-	2	12,427	-	38,326	
80,519	229,119	15,781	2,776	7,968	12,585	1,015,582	147	11,608	30,679	1,593,149	30,213	4,892,422	
17,979	21,504	6,580	1,170	5,817	20,244	20,482	87,727	85,838	47,854	659,732	10,146	1,868,277	
-45,199	-92,778	-2,760	-2,552	-2,918	-1,994	-431,304	-43,091	-6,207	-8,266	-83,631	-20,939	-1,354,252	
-214	-6,893	-126	-	-111	242	-7,378	-	335	1,410	14,766	-	6,211	
52,995	150,952	19,143	1,394	10,757	30,287	597,382	22,014	89,273	71,677	2,147,683	19,419	5,335,761	

3.22.2 Final Energy Consumption Table

Final Energy Consumption Table in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	79,840	703	199,740	19,653	690,342	10,532	66,893	357,235	156,671
Coal & Coal Products	2,793	-	4,708	784	311,554	5	5,191	37,768	21,479
Crude oil & Petroleum Products	37,817	442	84,502	9,995	181,983	6,639	40,585	207,471	91,508
Nature Gas/ LNG & Town Gas	17,798	27	54,208	1,401	33,634	580	10,637	24,805	13,923
Electricity	17,319	233	45,372	3,811	127,630	3,306	10,481	83,427	25,250
Others	4,025	-	10,090	3,663	2,159	-	-	2,348	3,210
Industry	24,187	94	76,156	6,271	400,084	1,192	23,453	158,409	80,020
Coal & Coal Products	2,666	-	4,420	717	238,130	-	3,049	36,991	20,793
Crude oil & Petroleum Products	3,599	40	18,594	1,966	33,644	816	9,698	73,712	40,564
Nature Gas/ LNG & Town Gas	7,202	-	24,172	873	20,798	22	5,095	10,040	3,739
Electricity	8,264	54	19,864	2,323	83,480	355	5,610	35,356	12,422
Others	2,456	-	8,246	392	-	-	-	2,311	2,503
Transport	28,382	371	54,367	6,683	76,442	5,626	20,965	86,329	32,904
Coal & Coal Products	64	-	-	-	5,140	-	-	-	-
Crude oil & Petroleum Products	27,781	371	50,154	6,641	67,531	5,626	20,952	84,488	32,572
Nature Gas/ LNG & Town Gas	375	-	3,854	23	152	-	13	-	131
Electricity	162	-	359	19	3,415	-	-	1,842	200
Others	-	-	-	-	-	-	-	-	-
Agriculture	2,243	0	3,655	1,022	25,300	-	-	9,289	3,615
Coal & Coal Products	-	-	-	66	8,907	-	-	-	-
Crude oil & Petroleum Products	2,098	0	2,309	139	16,310	-	-	8,878	3,083
Nature Gas/ LNG & Town Gas	2	-	485	103	-	-	-	-	21
Electricity	143	-	861	338	67	-	-	314	511
Others	-	-	-	376	-	-	-	-	-
Residential & Commercial	15,518	222	65,297	5,513	109,635	3,699	16,096	97,312	36,214
Coal & Coal Products	62	-	23	1	44,888	-	2,139	777	686
Crude oil & Petroleum Products	852	15	13,445	1,103	24,633	198	9,631	34,498	11,936
Nature Gas/ LNG & Town Gas	4,197	27	25,696	402	7,088	559	99	14,765	10,033
Electricity	8,750	180	24,289	1,131	24,621	2,943	4,227	45,916	11,551
Others	1,569	-	1,844	2,877	-	-	-	37	708

Final Energy Consumption Table in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	77,454	689	194,309	19,536	634,640	10,805	69,641	353,864	153,250
Coal & Coal Products	5,110	-	4,080	814	274,341	5	5,020	37,293	20,548
Crude oil & Petroleum Products	35,744	434	80,838	9,943	190,608	6,953	44,999	206,522	91,496
Nature Gas/ LNG & Town Gas	15,088	30	53,890	1,338	28,949	573	9,529	23,401	13,110
Electricity	16,339	225	44,099	3,508	108,730	3,275	10,093	82,723	23,947
Others	5,068	-	10,562	3,934	2,176	-	-	2,459	2,925
Industry	31,124	93	74,669	5,540	323,676	1,235	24,357	154,883	78,238
Coal & Coal Products	4,982	-	3,942	700	182,530	-	2,948	36,276	19,885
Crude oil & Petroleum Products	6,454	39	18,057	1,958	31,899	829	10,653	71,890	40,531
Nature Gas/ LNG & Town Gas	8,744	-	23,584	831	17,295	21	5,095	9,248	3,569
Electricity	7,445	54	19,526	2,052	69,687	385	5,662	35,051	11,894
Others	3,499	-	8,721	-	-	-	-	2,417	2,359
Transport	26,585	360	53,843	6,553	66,014	5,936	22,085	86,417	32,081
Coal & Coal Products	64	-	-	-	4,626	-	-	-	-
Crude oil & Petroleum Products	26,040	360	48,896	6,512	58,152	5,936	22,072	84,571	31,814
Nature Gas/ LNG & Town Gas	294	-	4,603	23	135	-	14	-	72
Electricity	187	-	345	18	2,908	-	-	1,846	195
Others	-	-	-	-	-	-	-	-	-
Agriculture	1,861	0	3,519	1,348	30,749	-	-	9,677	4,131
Coal & Coal Products	-	-	-	107	7,811	-	-	-	-
Crude oil & Petroleum Products	1,716	0	2,233	161	16,239	-	-	9,254	3,585
Nature Gas/ LNG & Town Gas	2	-	481	83	-	-	-	-	17
Electricity	142	-	805	366	6,683	-	-	326	529
Others	-	-	-	631	-	-	-	-	-
Residential & Commercial	14,334	224	62,103	5,512	99,142	3,621	15,741	96,550	35,183
Coal & Coal Products	64	-	138	7	42,212	-	2,073	1,017	662
Crude oil & Petroleum Products	779	24	11,478	1,169	22,210	188	9,631	34,471	12,513
Nature Gas/ LNG & Town Gas	3,254	30	25,224	401	6,491	551	99	14,153	9,453
Electricity	8,564	170	23,423	1,072	21,527	2,881	3,938	45,499	10,765
Others	1,569	-	1,841	2,862	-	-	-	42	566

Final Energy Consumption Table in 2003 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
34,587	97,449	13,489	1,095	8,462	17,707	418,375	11,501	62,312	50,364	1,574,100	16,989	3,888,038
1,212	1,703	1,049	-	463	885	42,836	-	9,232	5,034	38,842	4,337	489,875
21,176	61,867	6,549	839	6,186	13,155	62,812	8,644	35,764	33,815	848,154	9,639	1,769,544
5,886	11,843	1,859	-	20	-	123,736	106	1,687	2,316	387,289	18	691,774
6,313	13,791	3,028	256	1,738	3,667	54,372	2,751	15,628	9,198	298,849	2,996	729,415
-	8,245	681	-	-	-	2,637	-	-	-	-	-	37,056
13,473	27,302	3,826	601	3,252	4,158	152,289	5,409	35,892	15,659	476,128	6,604	1,514,458
1,212	1,703	921	-	463	770	37,941	-	8,931	5,034	36,513	3,113	403,368
4,812	6,349	327	412	1,737	2,088	9,989	4,170	17,657	4,503	169,395	2,165	406,237
4,207	9,168	455	-	20	-	27,501	60	802	1,995	177,923	18	294,090
3,242	8,006	1,237	189	1,032	1,299	28,233	1,179	8,502	4,126	92,170	1,307	318,250
-	2,075	617	-	-	-	380	-	-	-	-	-	18,979
14,271	40,220	5,463	374	3,088	8,677	78,914	4,251	12,914	21,123	633,283	5,571	1,140,216
-	-	2	-	-	-	234	-	-	-	-	-	5,440
14,226	40,106	5,411	374	3,088	8,673	41,063	4,224	12,808	21,107	616,908	5,561	1,069,662
40	19	4	-	-	-	31,150	-	-	13	15,975	-	51,750
5	96	46	-	-	5	6,467	27	106	3	400	10	13,161
-	-	-	-	-	-	-	-	-	-	-	-	-
98	2,693	513	-	80	355	10,546	3	1,106	3,339	13,429	481	77,769
-	-	13	-	-	-	156	-	-	-	361	24	9,526
98	2,062	378	-	34	349	4,601	-	898	3,320	13,068	410	58,035
-	-	-	-	-	-	509	-	-	-	-	-	1,120
-	631	123	-	47	6	1,750	3	208	19	-	48	5,068
-	-	-	-	-	-	119	-	-	-	-	-	495
4,399	20,579	2,436	108	1,679	4,277	155,169	1,588	10,584	6,736	451,261	4,151	1,012,471
-	-	114	-	-	-	3,862	-	-	-	1,969	1,200	55,720
1,310	8,533	162	41	992	1,920	4,971	-	2,886	1,778	48,784	1,320	169,008
23	857	421	-	0	-	46,243	46	885	-	193,391	-	304,732
3,066	5,057	1,622	67	631	2,357	17,923	1,542	6,812	4,957	206,279	1,631	375,551
-	6,132	64	-	-	-	1,843	-	-	-	-	-	15,074

Final Energy Consumption Table in 2002 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
33,289	96,748	14,008	1,008	8,644	17,260	407,468	11,270	62,167	46,865	1,578,787	15,383	3,807,084
1,086	1,715	880	-	483	711	43,350	-	9,179	4,930	66,816	4,017	480,377
20,638	60,743	6,242	774	6,438	13,227	61,900	8,489	36,496	31,553	825,623	8,761	1,748,424
5,643	12,174	2,955	-	5	-	115,747	107	1,707	1,767	395,903	19	681,935
5,922	13,929	2,967	234	1,663	3,322	53,168	2,674	14,784	8,615	290,445	2,586	693,248
-	8,187	646	-	-	-	2,621	-	-	-	-	-	38,577
12,853	29,573	3,561	552	3,336	4,151	151,789	5,229	36,640	15,064	503,340	6,001	1,465,904
1,086	1,715	739	-	483	622	37,346	-	9,082	4,930	64,385	2,944	374,595
4,884	6,817	335	380	1,861	2,357	10,291	4,071	18,765	4,440	147,553	1,947	386,007
3,824	10,773	466	-	5	-	26,758	63	885	1,762	203,383	19	316,325
3,059	8,255	1,181	172	988	1,172	27,489	1,095	7,908	3,933	88,019	1,091	296,117
-	2,013	582	-	-	-	412	-	-	-	-	-	20,004
13,441	39,019	5,235	344	2,998	8,429	74,813	4,196	12,892	19,819	635,175	4,969	1,121,205
-	-	2	-	-	-	262	-	-	-	-	-	4,955
13,409	38,921	5,184	344	2,998	8,424	40,438	4,169	12,790	19,811	627,013	4,943	1,062,796
28	-	4	-	-	-	28,279	-	-	6	8,162	-	41,618
4	98	45	-	-	5	5,833	27	103	3	-	26	11,643
-	-	-	-	-	-	-	-	-	-	-	-	-
95	2,542	472	-	85	324	10,858	3	985	3,061	-	455	70,166
-	-	14	-	-	-	146	-	-	-	-	25	8,103
95	1,921	329	-	38	319	4,348	-	785	3,044	-	386	44,454
-	-	-	-	-	-	482	-	-	-	-	-	1,065
-	620	129	-	47	5	1,952	3	200	17	-	43	11,870
-	-	-	-	-	-	139	-	-	-	-	-	770
4,386	20,302	2,421	100	1,695	4,128	151,331	1,592	9,740	6,401	440,213	3,778	978,497
-	-	125	-	-	-	4,965	-	-	-	2,372	1,047	54,681
1,512	8,436	131	38	1,040	1,988	4,760	-	2,345	1,738	51,057	1,305	166,813
15	817	430	-	0	-	44,511	44	821	-	184,358	-	290,652
2,859	4,956	1,612	62	600	2,140	17,894	1,548	6,574	4,662	202,426	1,426	364,599
-	6,093	64	-	-	-	1,804	-	-	-	-	-	14,840

3.22.3 Demand and Supply Table

Demand & Supply Table of Coal in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	178,868	-	33,023	288	655,513	-	56,206	699	1,418
Import	-	-	13,895	1,970	5,361	5,229	-	96,520	42,740
Export	-124,706	-	-16,381	-	-41,597	-2	-40,332	-	-
Stock Change	-3,746	-	-1,594	155	-5,374	-158	-	183	210
Primary Energy Supply	50,416	-	28,944	2,413	613,903	5,069	15,873	97,403	44,369
Coal Transformation	-2,961	-	-3,414	-	-105,135	-	-13	-39,473	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-445	-5,356	-	-	-	-
Power Generation (Public Utilities)	-44,859	-	-22,117	-1,447	-346,360	-5,064	-10,884	-37,051	-26,093
Power Generation (Auto Producers)	-0	-	-2	-11	-	-	-	-5,229	-
Final Energy Consumption	2,584	-	1,301	510	184,112	5	5,010	15,429	20,548

Demand & Supply Table of Crude Oil in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	30,401	10,124	141,080	223	158,653	-	57,692	628	-
Import	23,289	-	44,843	9,885	65,937	-	15,720	203,935	110,070
Export	-20,158	-9,521	-80,166	-	-7,282	-	-27,511	-	-
Stock Change	386	44	-75	-136	-999	-	-	1,413	503
Primary Energy Supply	33,918	647	105,682	9,971	216,310	-	45,900	205,976	110,573
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-38,846	-646	-105,218	-9,971	-205,520	-	-47,325	-201,384	-109,487
Gas processing	-	-	-	-	-	-	-	-	-
Power Generation (Public Utilities)	-	-	-	-	-865	-	-	-4,551	-
Power Generation (Auto Producers)	-565	-	-	-	-	-	-	-	-
Final Energy Consumption	1	-	-	-	1,175	-	-	0	-

Demand & Supply Table of Natural Gas & LNG in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	34,450	10,644	153,585	2,134	27,367	-	55,246	2,261	-
Import	-	-	3,028	4,403	-	1,924	-	62,146	20,440
Export	-8,887	-7,995	-88,207	-	-	-	-27,764	-	-
Stock Change	-	10	6,869	-333	-	-	-	-11	366
Primary Energy Supply	25,563	2,660	75,276	6,203	27,367	1,924	27,483	64,395	20,805
Coal Transformation	-129	-	-	-	-	-	-	-	-
Refining	-344	-	-	-563	-	-	-639	-	-
Gas processing	-279	-386	-	-2,363	-	-	-7,561	-20,502	-13,097
Power Generation (Public Utilities)	-5,245	-1,038	-5,339	-1,930	-2,352	-1,924	-4,190	-43,975	-7,616
Power Generation (Auto Producers)	-1,182	-853	-1,267	-56	-	-	-	-	-
Final Energy Consumption	15,013	30	53,890	1,226	20,297	-	9,529	493	-

Demand & Supply Table of Coal in 2002 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
223	5,261	2,713	-	15	729	98,937	-	-	5,742	543,860	8,904	1,592,401
3,442	3,662	52	-	592	3,310	7,931	0	31,916	3,550	10,100	-	230,272
-37	-2	-1,390	-	-	-	-18,350	-0	-	-	-24,414	-3,387	-270,599
505	-1,367	-	-	56	-57	2,605	-	-674	-34	478	-	-8,813
4,133	7,554	1,375	-	664	3,982	91,123	0	31,241	9,258	530,025	5,517	1,543,261
-	-994	-	-	-32	-	-23,882	-	-3,798	-	-15,532	-	-195,234
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-5,800
-2,556	-6,308	-338	-	-225	-3,214	-43,240	-	-17,204	-4,375	-374,989	-1,500	-947,822
-	-	-20	-	-	-	-16,431	-	-4,841	-	-109,007	-	-135,542
1,086	108	880	-	424	711	7,356	-	4,860	4,883	51,400	4,017	305,223

Demand & Supply Table of Crude Oil in 2002 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
34,838	165,304	1,442	2,552	4,687	719	379,059	-	44	6,280	302,727	16,899	1,313,350
7,317	-	5,122	-	3,728	12,650	6,263	41,365	39,039	36,697	476,283	-	1,102,142
-18,100	-85,074	-1,146	-2,552	-1,082	-447	-189,327	-	-	-2,731	-471	-16,899	-462,467
-989	-2,816	-7	-	180	114	-1,016	-	72	1,650	-2,037	-	-3,714
23,066	77,414	5,411	-	7,512	13,036	194,979	41,365	39,154	41,897	776,502	-	1,949,311
-	-	-	-	-	-	-	-	-	-	-	-	-
-22,881	-73,973	-5,462	-	-8,060	-12,692	-190,807	-41,365	-39,154	-40,156	-808,710	-	-1,961,657
-	-2,829	-	-	-	-	-	-	-	496	-	-	-2,333
-	-	-	-	-	-	-	-	-	-	-18,387	-	-23,803
-	-	-	-	-	-	-1,002	-	-	-	-11,594	-	-13,162
-	-	-	-	-	-	164	-	-	2,079	-	-	3,419

Demand & Supply Table of Natural Gas & LNG in 2002 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
45,002	41,024	5,058	144	1,660	1,724	479,544	-	710	18,012	442,772	2,845	1,324,183
-	6,302	-	-	-	-	5,832	2,326	6,238	6,525	92,979	-	212,143
-18,901	-39	-	-	-	-	-149,871	-0	-	-	-11,778	-	-313,441
-	-2,765	-0	-	-	-	-9,847	-	70	-	11,368	-	5,726
26,101	44,523	5,058	144	1,660	1,724	325,658	2,326	7,018	24,537	535,341	2,845	1,228,610
-	-	-	-	-	-	-	-	-	-	-	-	-129
-	-	-	-	-	-	-	-	-	-	-	-	-1,546
-7,769	-11,869	-	-	-557	-	-3,158	-	-2,226	-182	-	-531	-70,481
-12,424	-12,636	-1,495	-	-280	-1,724	-117,153	-2,306	-4,628	-18,698	-52,274	-2,295	-299,522
-128	-	-480	-137	-24	-	-79,376	-	-153	-	-89,442	-	-173,097
5,643	12,174	2,955	-	5	-	115,747	-	-	1,767	395,903	19	634,692

Demand & Supply Table of Coal in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	179,753	-	32,890	383	791,841	-	62,138	683	1,410
Import	-	-	14,326	1,931	5,582	6,409	-	101,486	43,599
Export	-128,350	-	-17,554	-	-46,386	-9	-46,586	-	-
Stock Change	-1,790	-	2,123	-7	-2,398	-	-	43	248
Primary Energy Supply	49,613	-	31,784	2,307	748,638	6,401	15,551	102,213	45,257
Coal Transformation	-3,096	-	-2,933	-	-130,259	-	-14	-39,952	-686
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-478	-5,746	-	-	-	-
Power Generation (Public Utilities)	-44,692	-	-27,196	-1,386	-405,744	-6,423	-12,503	-42,254	-26,103
Power Generation (Auto Producers)	-1	-	-	-6	-	-	-	-5,602	-
Final Energy Consumption	1,952	-	1,479	433	200,563	5	5,180	16,053	20,793

Demand & Supply Table of Crude Oil in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	27,974	10,296	153,298	181	161,123	-	53,003	712	-
Import	23,851	-	47,351	10,324	86,471	-	17,363	215,047	111,993
Export	-17,593	-9,637	-85,775	-	-7,727	-	-25,988	-	-
Stock Change	-195	13	-1,778	121	-585	-	-	-741	-738
Primary Energy Supply	34,037	672	113,095	10,626	239,282	-	44,378	215,018	111,254
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-37,795	-658	-114,572	-10,626	-227,028	-	-46,396	-208,571	-108,951
Gas processing	-	-	-	-	-	-	-	-	-
Power Generation (Public Utilities)	-	-	-	-	-998	-	-	-5,990	-
Power Generation (Auto Producers)	-	-	-	-	-	-	-	-	-
Final Energy Consumption	19	-	-	-	1,172	-	-	1	-

Demand & Supply Table of Natural Gas & LNG in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	34,514	11,479	150,631	1,829	29,339	-	63,621	2,500	-
Import	-	-	7,949	5,123	-	1,237	-	69,284	22,738
Export	-9,285	-8,396	-83,324	-	-1,569	-	-27,954	-	-
Stock Change	-	30	3,939	-241	-	-	-	-2	-380
Primary Energy Supply	25,229	3,113	79,195	6,711	27,770	1,237	35,667	71,782	22,358
Coal Transformation	-148	-	-	-	-	-	-	-	-
Refining	-542	-	-	-564	-	-	-639	-	-
Gas processing	-479	-681	-	-2,364	-	-	-7,561	-22,444	-14,014
Power Generation (Public Utilities)	-4,708	-1,073	-5,783	-2,505	-2,282	-1,237	-4,205	-46,870	-7,567
Power Generation (Auto Producers)	-1,682	-886	-1,470	-55	-	-	-	-	-
Final Energy Consumption	17,594	27	54,208	1,281	24,076	-	10,637	549	-

Demand & Supply Table of Coal in 2003 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
107	4,607	3,089	-	11	882	107,020	-	-	5,520	525,496	10,619	1,726,449
5,268	4,493	271	-	541	3,079	9,633	0	33,625	4,500	14,914	-	249,658
-36	-0	-1,584	-	-	-	-22,828	-0	-	-	-25,082	-4,058	-292,474
378	-472	-	-	97	-	-974	-	-45	-353	13,975	-	10,825
5,717	8,628	1,776	-	649	3,961	92,852	0	33,580	9,667	529,303	6,562	1,694,459
-	-1,034	-	-	-26	-	-25,224	-	-3,758	-	-14,205	-	-221,188
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-6,224
-4,104	-7,356	-778	-	-220	-3,050	-44,658	-	-18,643	-4,459	-488,101	-2,225	-1,139,895
-	-	-21	-	-	-	-16,389	-	-5,730	-	-5,684	-	-33,434
1,212	180	1,049	-	409	885	6,175	-	4,865	4,991	25,252	4,337	295,813

Demand & Supply Table of Crude Oil in 2003 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
37,026	176,307	1,117	2,427	4,615	674	420,675	-	39	7,736	295,490	17,917	1,370,609
7,921	-	5,335	-	4,212	12,294	5,766	40,082	44,236	39,082	560,094	-	1,231,420
-18,747	-95,278	-950	-2,427	-1,460	-654	-228,995	-	-	-3,092	-3,466	-17,452	-519,240
242	546	25	-	-155	-112	1,213	-	-209	1,949	-5,034	-323	-5,762
26,442	81,575	5,528	-	7,212	12,202	198,658	40,082	44,066	45,674	847,084	143	2,077,027
-	-	-	-	-	-	-	-	-	-	-	-	-
-25,449	-77,512	-5,441	-	-8,049	-11,860	-193,892	-40,082	-45,767	-43,396	-834,461	-	-2,040,506
-	-3,493	-	-	-	-	-	-	-	498	-	-	-2,994
-	-	-	-	-	-	-	-	-	-	-	-	-6,988
-	-	-	-	-	-	-918	-	-	-	-	-	-918
-	-	-	-	-	-	110	-	-	2,607	-	-	3,909

Demand & Supply Table of Natural Gas & LNG in 2003 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
46,123	42,085	3,858	132	1,720	2,628	499,830	-	666	18,984	446,585	2,776	1,359,299
1,501	8,356	-	-	-	-	7,072	3,285	6,505	7,071	92,843	-	232,964
-20,367	-	-	-	-	-	-152,983	-	-	-	-15,829	-	-319,708
-	-2,912	0	-	-	-	-11,319	-	43	-	-4,430	-	-15,272
27,257	47,529	3,858	132	1,720	2,628	342,600	3,285	7,214	26,054	519,169	2,776	1,257,284
-	-	-	-	-	-	-	-	-	-	-	-	-148
-	-	-	-	-	-	-	-	-3	-	-	-	-1,748
-8,975	-7,938	-	-	-617	-	-4,834	-	-1,472	-179	-	-622	-72,180
-10,893	-14,609	-1,319	-	-342	-2,628	-123,464	-3,285	-4,833	-19,642	-119,247	-2,136	-378,629
-469	-	-612	-132	-23	-	-78,506	-	-231	-	-16,478	-	-100,544
5,886	11,843	1,859	-	20	-	123,736	-	-	2,316	387,289	18	641,340

3.22.4 Power Generation Table

Power Generation Table in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	229,015	3,169	587,023	48,780	1,907,384	35,506	142,288	1,075,338	322,429
Thermal	209,705	3,169	174,390	26,177	1,580,361	35,506	126,889	724,434	185,883
Hydro	16,448	-	337,541	22,603	283,681	-	9,106	96,802	6,887
Nuclear	-	-	74,892	-	43,342	-	-	230,423	129,659
Geothermal	-	-	-	-	-	-	6,294	3,419	-
Others	2,862	-	200	-	-	-	-	20,260	-
Public Utilities	215,465	2,814	538,011	45,422	1,907,384	35,506	142,288	907,877	322,429
Thermal	197,950	2,814	155,720	23,410	1,580,361	35,506	126,889	581,269	185,883
Hydro	16,168	-	307,279	22,012	283,681	-	9,106	90,973	6,887
Nuclear	-	-	74,892	-	43,342	-	-	230,078	129,659
Geothermal	-	-	-	-	-	-	6,294	3,230	-
Others	1,347	-	120	-	-	-	-	2,326	-
Auto Producers	13,550	355	49,012	3,358	-	-	-	167,462	-
Thermal	11,755	355	18,670	2,767	-	-	-	143,165	-
Hydro	280	-	30,262	591	-	-	-	5,829	-
Nuclear	-	-	-	-	-	-	-	346	-
Geothermal	-	-	-	-	-	-	-	189	-
Others	1,515	-	80	-	-	-	-	17,934	-

Power Generation Table in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	222,550	3,017	600,443	43,670	1,640,477	34,312	137,516	1,052,213	306,473
Thermal	204,206	3,017	174,331	20,483	1,327,376	34,312	121,339	645,125	182,062
Hydro	16,397	-	350,386	23,187	287,974	-	9,940	82,684	5,309
Nuclear	-	-	75,526	-	25,127	-	-	300,937	119,102
Geothermal	-	-	-	-	-	-	6,238	3,364	-
Others	1,947	-	200	-	-	-	-	20,103	-
Public Utilities	213,356	2,701	552,617	40,834	1,640,477	34,312	137,516	893,989	306,473
Thermal	196,681	2,701	157,870	18,273	1,327,376	34,312	121,339	510,610	182,062
Hydro	16,108	-	319,102	22,561	287,974	-	9,940	77,732	5,309
Nuclear	-	-	75,526	-	25,127	-	-	300,291	119,102
Geothermal	-	-	-	-	-	-	6,238	3,166	-
Others	567	-	120	-	-	-	-	2,189	-
Auto Producers	9,194	316	47,826	2,836	-	-	-	158,224	-
Thermal	7,525	316	16,461	2,210	-	-	-	134,515	-
Hydro	289	-	31,284	626	-	-	-	4,952	-
Nuclear	-	-	-	-	-	-	-	646	-
Geothermal	-	-	-	-	-	-	-	198	-
Others	1,381	-	80	-	-	-	-	17,914	-

Power Generation Table in 2003 (Continued)

												GWh	
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
78,427	203,735	41,227	3,178	22,926	52,863	912,296	34,300	209,051	116,985	4,054,353	40,925	10,121,198	
73,371	167,535	13,594	2,249	4,393	35,171	603,901	34,300	163,267	109,684	2,891,081	21,939	7,186,998	
5,056	19,753	23,689	929	18,534	7,869	157,720	-	6,895	7,299	278,609	18,986	1,318,407	
-	10,502	-	-	-	-	150,342	-	38,890	-	787,818	-	1,465,868	
-	5,940	2,769	-	-	9,822	324	-	-	2	14,870	-	43,440	
-	5	1,175	-	-	-	9	-	-	-	81,975	-	106,486	
76,346	203,735	37,795	1,374	21,361	52,863	869,302	34,300	171,063	116,985	3,886,772	40,925	9,630,017	
71,291	167,535	11,143	829	3,243	35,171	561,851	34,300	125,278	109,684	2,764,902	21,939	6,796,967	
5,056	19,753	23,689	545	18,118	7,869	156,776	-	6,895	7,299	274,271	18,986	1,275,364	
-	10,502	-	-	-	-	150,342	-	38,890	-	787,818	-	1,465,522	
-	5,940	2,723	-	-	9,822	324	-	-	2	14,870	-	43,205	
-	5	240	-	-	-	9	-	-	-	44,911	-	48,958	
2,080	-	3,432	1,804	1,565	-	42,994	-	37,989	-	167,581	-	491,181	
2,080	-	2,451	1,420	1,150	-	42,050	-	37,989	-	126,179	-	390,030	
-	-	-	384	415	-	944	-	-	-	4,338	-	43,043	
-	-	-	-	-	-	-	-	-	-	-	-	346	
-	-	46	-	-	-	-	-	-	-	-	-	234	
-	-	935	-	-	-	-	-	-	-	37,064	-	57,528	

Power Generation Table in 2002 (Continued)

												GWh	
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
74,196	201,252	41,108	2,884	21,982	48,467	887,558	34,665	198,820	109,013	3,858,996	35,795	9,555,408	
68,897	161,238	11,632	1,954	3,942	31,192	581,576	34,665	152,908	101,540	2,729,959	17,597	6,609,349	
5,300	24,862	25,219	930	18,040	7,033	164,191	-	6,360	7,471	255,586	18,198	1,309,067	
-	9,747	-	-	-	-	141,629	-	39,553	-	780,064	-	1,491,685	
-	5,398	2,866	-	-	10,242	156	-	-	2	13,357	-	41,624	
-	7	1,390	-	-	-	6	-	-	-	80,030	-	103,683	
72,372	201,252	37,957	1,210	20,420	48,467	838,477	34,665	164,161	109,013	2,549,457	35,795	7,935,520	
67,072	161,238	9,697	663	2,781	31,192	533,417	34,665	118,249	101,540	1,803,434	17,597	5,432,769	
5,300	24,862	25,219	547	17,638	7,033	163,268	-	6,360	7,471	234,868	18,198	1,249,490	
-	9,747	-	-	-	-	141,629	-	39,553	-	507,380	-	1,218,355	
-	5,398	2,799	-	-	10,242	156	-	-	2	152	-	28,154	
-	7	241	-	-	-	6	-	-	-	3,623	-	6,753	
1,825	-	3,151	1,675	1,563	-	49,081	-	34,659	-	1,309,539	-	1,619,888	
1,825	-	1,935	1,291	1,161	-	48,159	-	34,659	-	926,525	-	1,176,581	
-	-	-	384	402	-	923	-	-	-	20,718	-	59,577	
-	-	-	-	-	-	-	-	-	-	272,684	-	273,330	
-	-	67	-	-	-	-	-	-	-	13,205	-	13,470	
-	-	1,149	-	-	-	-	-	-	-	76,407	-	96,931	

3.22.5 Fuel Consumption Table for Power Generation

Fuel Consumption Table for Power Generation in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Public Utilities	50,318	1,079	36,046	4,272	426,910	7,707	22,192	112,925	39,263
Coal	44,692	-	27,196	1,386	405,744	6,423	12,503	42,254	26,103
Coke Oven Gas	-	-	-	-	622	-	-	1,398	-
Blast Furnace Gas	458	-	-	-	-	-	-	3,056	-
Lignite	15,026	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	998	-	-	5,990	-
LPG	-	-	-	-	18	-	-	562	0
Refinery Gas	-	-	-	-	1,432	-	-	-	-
Naphtha	-	-	-	-	-	-	-	2	-
Diesel Oil	273	6	91	25	2,629	7	3,767	157	320
Fuel Oil	122	-	2,976	6	12,517	41	1,718	12,636	5,272
Natural Gas	4,708	1,073	5,783	2,505	2,282	1,237	4,205	46,870	7,567
Others	523	-	-	350	1,291	-	-	4,454	-
Auto Producers	1,783	886	1,830	168	-	-	-	20,231	-
Coal	1	-	-	6	-	-	-	5,602	-
Coke Oven Gas	-	-	48	-	-	-	-	541	-
Blast Furnace Gas	20	-	46	-	-	-	-	1,931	-
Lignite	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	-	-	-	-	-
LPG	2	-	-	-	-	-	-	54	-
Refinery Gas	-	-	171	14	-	-	-	913	-
Naphtha	-	-	-	-	-	-	-	1,150	-
Diesel Oil	30	-	28	22	-	-	-	-	-
Fuel Oil	4	-	65	70	-	-	-	9,330	-
Natural Gas	1,682	886	1,470	55	-	-	-	-	-
Others	64	-	95	-	-	-	-	3,183	-

Fuel Consumption Table for Power Generation in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Public Utilities	50,930	1,044	29,981	3,645	367,942	7,030	20,559	98,919	39,700
Coal	44,859	-	22,117	1,447	346,360	5,064	10,884	37,051	26,093
Coke Oven Gas	-	-	-	-	716	-	-	1,419	-
Blast Furnace Gas	451	-	-	-	-	-	-	3,113	-
Lignite	14,613	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	865	-	-	4,551	-
LPG	-	-	-	-	18	-	-	339	0
Refinery Gas	-	-	-	-	1,395	-	-	-	-
Naphtha	-	-	-	-	-	-	-	15	-
Diesel Oil	201	6	86	29	2,190	9	3,767	190	96
Fuel Oil	115	-	2,439	6	11,204	34	1,718	8,265	5,548
Natural Gas	5,245	1,038	5,339	1,930	2,352	1,924	4,190	43,975	7,616
Others	510	-	-	233	3,559	-	-	4,533	347
Auto Producers	2,076	853	1,701	175	-	-	-	19,934	-
Coal	0	-	2	11	-	-	-	5,229	-
Coke Oven Gas	-	-	45	-	-	-	-	558	-
Blast Furnace Gas	21	-	43	-	-	-	-	1,896	-
Lignite	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	565	-	-	-	-	-	-	-	-
LPG	-	-	-	-	-	-	-	51	-
Refinery Gas	-	-	253	2	-	-	-	910	-
Naphtha	-	-	-	-	-	-	-	1,092	-
Diesel Oil	-	-	30	29	-	-	-	-	-
Fuel Oil	306	-	62	77	-	-	-	9,283	-
Natural Gas	1,182	853	1,267	56	-	-	-	-	-
Others	21	-	87	-	-	-	-	3,368	-

Fuel Consumption Table for Power Generation in 2003 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
15,626	38,864	2,097	210	861	7,290	177,014	6,088	26,392	24,816	631,992	5,105	1,637,068
4,104	7,356	778	-	220	3,050	44,658	-	18,643	4,459	488,101	2,225	1,139,895
-	-	-	-	-	-	-	-	-	-	-	-	2,021
-	-	-	-	-	-	-	-	-	-	-	-	3,514
-	-	-	-	-	-	22,074	-	-	3,873	-	-	40,973
-	-	-	-	-	-	-	-	-	-	-	-	6,988
-	-	-	-	-	-	-	-	-	-	-	-	580
-	-	-	-	-	-	-	-	-	-	-	-	1,432
-	-	-	-	-	-	-	-	-	-	-	-	2
340	707	-	30	40	148	8,624	43	111	45	4,076	64	21,503
289	16,192	-	179	259	1,465	-	2,760	2,804	670	19,800	680	80,386
10,893	14,609	1,319	-	342	2,628	123,464	3,285	4,833	19,642	119,247	2,136	378,629
-	-	-	-	-	-	268	-	-	-	768	-	7,654
639	-	633	424	285	-	112,234	-	7,291	-	23,355	-	169,759
-	-	21	-	-	-	16,389	-	5,730	-	5,684	-	33,434
-	-	-	-	-	-	869	-	91	-	-	-	1,549
-	-	-	-	-	-	3,541	-	334	-	-	-	5,873
-	-	-	-	-	-	6,706	-	-	-	-	-	6,706
-	-	-	-	-	-	918	-	-	-	-	-	918
-	-	-	-	-	-	27	-	-	-	-	-	82
-	-	-	-	-	-	1,263	-	34	-	-	-	2,395
-	-	-	-	-	-	-	-	-	-	-	-	1,150
170	-	-	44	219	-	10,698	-	-	-	450	-	11,662
-	-	-	248	42	-	-	-	871	-	743	-	11,372
469	-	612	132	23	-	78,506	-	231	-	16,478	-	100,544
-	-	-	-	1	-	4,433	-	425	-	-	-	8,201

Fuel Consumption Table for Power Generation in 2002 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
16,819	38,117	1,833	158	748	6,561	169,512	6,342	25,118	23,738	465,521	5,052	1,379,268
2,556	6,308	338	-	225	3,214	43,240	-	17,204	4,375	374,989	1,500	947,822
-	-	-	-	-	-	-	-	-	-	-	-	2,136
-	-	-	-	-	-	-	-	-	-	-	-	3,565
-	-	-	-	-	-	19,893	-	-	3,780	-	-	38,285
-	-	-	-	-	-	-	-	-	-	18,387	-	23,803
-	-	-	-	-	-	-	-	-	-	-	-	357
-	-	-	-	-	-	-	-	-	-	-	-	1,395
-	-	-	-	-	-	-	-	-	-	-	-	15
476	363	-	22	39	208	8,799	52	135	41	2,969	389	20,065
1,363	18,811	-	136	204	1,415	-	3,984	3,151	623	15,985	869	75,869
12,424	12,636	1,495	-	280	1,724	117,153	2,306	4,628	18,698	52,274	2,295	299,522
-	-	-	-	-	-	320	-	-	-	918	-	10,420
300	-	500	375	302	-	113,382	-	6,383	-	210,043	-	356,023
-	-	20	-	-	-	16,431	-	4,841	-	109,007	-	135,542
-	-	-	-	-	-	831	-	103	-	-	-	1,537
-	-	-	-	-	-	3,062	-	331	-	-	-	5,353
-	-	-	-	-	-	5,946	-	-	-	-	-	5,946
-	-	-	-	-	-	1,002	-	-	-	11,594	-	13,162
-	-	-	-	-	-	50	-	-	-	-	-	101
-	-	-	-	-	-	1,174	-	29	-	-	-	2,368
-	-	-	-	-	-	-	-	-	-	-	-	1,092
172	-	-	41	226	-	11,408	-	-	-	-	-	11,907
-	-	-	197	51	-	-	-	926	-	-	-	10,903
128	-	480	137	24	-	79,376	-	153	-	89,442	-	173,097
-	-	-	-	1	-	3,939	-	435	-	-	-	7,852

3.22.6 Stock Table by Energy Resources

Stock Table by Energy Resource in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Opening Stocks									
Hard Coal	-	-	-	-	-	-	-	-	-
Steam Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	4,645
Lignite	-	-	-	-	-	-	-	-	-
Coke	-	-	178	-	-	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	537	8,120	-	-	-	-	-	1,760
LPG	-	0	167	-	-	7	-	-	245
Naphtha	-	-	361	-	-	27	-	-	1,107
MOGAS	-	8	2,127	-	-	32	-	-	437
Jet Fuel	-	5	321	-	-	117	-	-	418
Kerosene	-	-	144	-	-	1	-	-	1,139
Diesel Oil	-	8	2,453	-	-	246	-	-	1,237
Fuel Oil	-	-	527	-	-	73	-	-	1,833
Other Petroleum Products	-	-	2,136	-	-	-	-	-	158
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	6,372
Total Opening Stocks	-	558	16,534	-	-	502	-	-	19,351
Closing Stocks									
Hard Coal	-	-	-	-	-	-	-	-	-
Steam Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	4,435
Lignite	-	-	-	-	-	-	-	-	-
Coke	-	-	150	-	-	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	449	8,194	-	-	-	-	-	1,257
LPG	-	0	108	-	-	12	-	-	466
Naphtha	-	-	276	-	-	-	-	-	921
MOGAS	-	7	1,946	-	-	30	-	-	427
Jet Fuel	-	7	286	-	-	77	-	-	306
Kerosene	-	-	104	-	-	2	-	-	646
Diesel Oil	-	10	2,276	-	-	192	-	-	987
Fuel Oil	-	-	495	-	-	168	-	-	1,734
Other Petroleum Products	-	-	2,562	-	-	-	-	-	207
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	5,431
Total Closing Stocks	-	474	16,397	-	-	481	-	-	16,817
Stock Change									
Hard Coal	-3,745	-	-2,019	155	-	-	-	183	-
Steam Coal	-2,280	-	-1,008	-	-	-	-	183	-
Coking Coal	43	-	-672	-	-	-	-	-	-
Subbituminous Coal	-1,509	-	-339	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	210
Lignite	-	-	425	-	-	-	-	-	-
Coke	-165	-	27	27	-4,250	-	-	-	-
Briquettes	29	-	-	-	-	-	-	-	-
Crude Oil & NGL	771	88	-75	-272	-9,993	-	-	1,413	503
LPG	57	-0	59	84	716	39	-	763	-221
Naphtha	-6	-	85	2	-	67	-	-371	186
MOGAS	17	1	181	-46	5,805	19	-	707	9
Jet Fuel	-27	-2	35	-27	-	-14	-	119	112
Kerosene	3	-	40	13	517	27	-	1,157	493
Diesel Oil	9	-2	178	-48	7,965	16	-	662	250
Fuel Oil	64	-	32	-9	4,472	91	-	371	100
Other Petroleum Products	161	-1	-426	-	-	-	-	91	-49
Natural Gas	-	-	6,868	-333	-	-	-	-11	-
Others	-3,745	10	-	-198	-53,744	-	-	-	941
Total Stock Change	-6,578	93	5,411	-652	-48,513	244	-	5,083	2,534

Stock Table by Energy Resource in 2002 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	4,645
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	582	-	760
-	-	-	-	-	-	-	-	-	-	-	-	0
3,362	-	468	-	-	2,828	2,764,217	-	-	-	241,198	-	3,022,489
71	-	2	-	-	10	4,259	-	-	-	10,466	-	15,228
-	-	-	-	-	37	-	-	-	-	301	-	1,832
437	-	270	-	-	187	58,362	-	-	-	20,142	-	82,002
204	-	59	-	-	37	-	-	-	-	5,695	-	6,855
47	-	-	-	-	33	-	-	-	-	731	-	2,095
788	-	224	-	-	319	383,733	-	-	-	20,152	-	409,161
607	-	129	-	-	380	-	-	-	-	6,178	-	9,727
1,223	-	57	-	-	7	-	-	-	-	6,654	-	10,234
-	-	5	-	-	-	-	-	-	-	167,798	-	167,803
2,545	-	83	-	-	703	-	-	-	-	90,580	-	100,284
9,284	-	1,296	-	-	4,541	3,210,571	-	-	-	570,478	-	3,833,115
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	4,435
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	360	-	510
-	-	-	-	-	-	-	-	-	-	-	-	0
4,351	-	487	-	-	2,600	2,837,380	-	-	-	245,272	-	3,099,990
65	-	2	-	-	11	3,922	-	-	-	9,128	-	13,715
-	-	-	-	-	17	-	-	-	-	300	-	1,514
445	-	207	-	-	157	65,904	-	-	-	20,194	-	89,316
98	-	75	-	-	40	-	-	-	-	5,318	-	6,206
2	-	-	-	-	32	-	-	-	-	742	-	1,527
765	-	181	-	-	240	130,533	-	-	-	18,698	-	153,883
587	-	70	-	-	322	-	-	-	-	4,716	-	8,091
1,145	-	86	-	-	6	-	-	-	-	6,472	-	10,479
-	-	5	-	-	-	-	-	-	-	156,104	-	156,109
2,040	-	57	-	-	760	-	-	-	-	90,088	-	98,377
9,498	-	1,170	-	-	4,184	3,037,738	-	-	-	557,392	-	3,644,151
-	-	-	-	-	-	88,798	-	-674	-	-	-	82,697
-	-	-	-	-	-	74,369	-	1,501	-	-	-	72,765
-	-	-	-	-	-	14,429	-	-2,175	-	-	-	11,625
-	-	-	-	-	-	-	-	-	-	-	-	-1,848
-	-	-	-	-	-	-	-	-	-	-	-	210
-	-	-	-	-	-	4,986	-	-	-34	-	-	5,377
-	454	-	-	-554	-	-	-	-102	-	223	-	-4,340
-	-	-	-	-	-	-	-	-	-	-	-	29
-989	-5,632	19	-	4,532	228	-73,163	-	72	1,737	-4,074	-	-84,835
6	82	-	-	-200	-1	317	-	18	-31	1,312	-	2,999
-	-	-	-	-	20	-	-	372	-	1	-	354
-8	-173	-63	-	-5,573	30	-7,542	-	162	61	-55	-	-6,468
106	-	16	-	-	-3	-	-	259	-13	377	-	938
45	2	-	-	-866	1	-	-	63	-726	-10	-	758
23	27	-43	-	89	79	37,811	-	-155	901	1,454	-	49,217
20	-125	-59	-	476	58	-	-	414	-397	1,462	-	6,969
78	-189	30	-	-2,112	1	-	-	-162	-	182	-	-2,398
-	-5,528	-0	-	-	-	-354,478	-	35	-	11,368	-	-342,079
505	-1,413	-26	-	1,407	-57	-259,610	-	-570	-87	492	-	-316,096
-214	-12,494	-126	-	-2,801	356	-562,880	-	-270	1,410	12,729	-	-606,668

Stock Table by Energy Resource in 2003

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Opening Stocks									
Hard Coal	-	-	-	-	-	-	-	-	-
Steam Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	4,435
Lignite	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	449	8,491	-	-	-	-	-	2,514
LPG	-	0	108	-	-	12	-	-	466
Naphtha	-	-	276	-	-	-	-	-	921
MOGAS	-	7	1,946	-	-	30	-	-	427
Jet Fuel	-	7	286	-	-	77	-	-	306
Kerosene	-	-	104	-	-	2	-	-	646
Diesel Oil	-	10	2,276	-	-	192	-	-	987
Fuel Oil	-	-	495	-	-	168	-	-	1,734
Other Petroleum Products	-	3	2,562	-	-	-	-	-	211
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	6,162
Total Opening Stocks	-	477	16,543	-	-	481	-	-	18,808
Closing Stocks									
Hard Coal	-	-	-	-	-	-	-	-	-
Steam Coal	-	-	-	-	-	-	-	-	-
Coking Coal	-	-	-	-	-	-	-	-	-
Subbituminous Coal	-	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	4,187
Lignite	-	-	-	-	-	-	-	-	-
Coke	-	-	-	-	-	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	423	10,268	-	-	-	-	-	3,991
LPG	-	0	107	-	-	12	-	-	520
Naphtha	-	-	330	-	-	-	-	-	710
MOGAS	-	10	1,907	-	-	28	-	-	417
Jet Fuel	-	6	377	-	-	107	-	-	330
Kerosene	-	-	107	-	-	2	-	-	808
Diesel Oil	-	10	2,168	-	-	132	-	-	1,015
Fuel Oil	-	-	519	-	-	93	-	-	1,531
Other Petroleum Products	-	2	3,169	-	-	-	-	-	161
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	6,674
Total Closing Stocks	-	451	18,954	-	-	376	-	-	20,343
Stock Change									
Hard Coal	-1,789	-	-	-	-	-	-	43	-
Steam Coal	774	-	-	-	-	-	-	43	-
Coking Coal	112	-	-	-	-	-	-	-	-
Subbituminous Coal	-2,675	-	-	-	-	-	-	-	-
Anthracite	-	-	-	-	-	-	-	-	248
Lignite	-	-	-	-	-	-	-	-	-
Coke	-92	-	-	-61	-2,449	-	-	-	-
Briquettes	24	-	-	-	-	-	-	-	-
Crude Oil & NGL	-391	26	-1,778	241	-11,699	-	-	-741	-1,477
LPG	46	0	0	-17	-1,127	-0	-	-55	-54
Naphtha	16	-	-54	-	-	-	-	376	211
MOGAS	14	-4	39	44	3,490	2	-	-54	11
Jet Fuel	71	1	-91	-64	-	-31	-	-2	-24
Kerosene	-31	-	-4	34	1,735	-0	-	-842	-162
Diesel Oil	276	1	107	22	6,541	60	-	-231	-28
Fuel Oil	-93	-	-24	75	-10,876	74	-	-517	203
Other Petroleum Products	-35	1	-606	-	-	-	-	-34	50
Natural Gas	-	-	3,938	-241	-	-	-	-2	-
Others	2	30	2,122	-252	-23,985	-	-	-	-513
Total Stock Change	-1,983	56	3,650	-220	-38,369	105	-	-2,059	-1,534

Stock Table by Energy Resource in 2003 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	4,435
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
6,667	-	487	-	-	2,600	2,664,476	-	-	-	-	-	2,685,682
70	-	2	-	-	11	4,096	-	-	-	-	-	4,767
-	-	-	-	-	17	-	-	-	-	-	-	1,214
780	-	207	-	-	157	67,522	-	-	-	-	-	71,076
155	-	75	-	-	40	-	-	-	-	-	-	945
601	-	-	-	-	32	-	-	-	-	-	-	1,385
1,727	-	181	-	-	240	351,660	-	-	-	-	-	357,273
277	-	70	-	-	322	-	-	-	-	-	-	3,064
1,554	-	86	-	-	6	-	-	-	-	-	-	4,422
-	-	5	-	-	-	-	-	-	-	-	-	5
1,552	-	57	-	-	-	-	-	-	-	-	-	7,771
13,383	-	1,170	-	-	3,424	3,087,754	-	-	-	-	-	3,142,040
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	4,187
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
6,183	-	507	-	-	2,824	2,577,159	-	-	-	-	-	2,601,354
58	-	-	-	-	15	5,866	-	-	-	-	-	6,579
-	-	-	-	-	47	-	-	-	-	-	-	1,088
714	-	198	-	-	160	57,179	-	-	-	-	-	60,614
136	-	74	-	-	41	-	-	-	-	-	-	1,071
579	-	-	-	-	36	-	-	-	-	-	-	1,532
1,491	-	205	-	-	282	359,294	-	-	-	-	-	364,597
292	-	76	-	-	271	-	-	-	-	-	-	2,782
1,558	-	67	-	-	9	-	-	-	-	-	-	4,966
-	-	5	-	-	-	-	-	-	-	-	-	5
1,174	-	63	-	-	-	-	-	-	-	-	-	7,911
12,185	-	1,195	-	-	3,685	2,999,498	-	-	-	-	-	3,056,686
-	-	-	-	-	-	-31,622	-	-45	-	13,784	-	-19,629
-	-	-	-	-	-	-15,446	-	2,216	-	10,489	-	-1,925
-	-	-	-	-	-	-16,176	-	-2,261	-	303	-	-18,022
-	-	-	-	-	-	-	-	-	-	2,992	-	317
-	-	-	-	-	-	-	-	-	-	-	-	248
-	-	-	-	-	-	-3,436	-	-	-353	192	-	-3,597
-	264	-	-	-54	-	-	-	-26	-	135	-	-2,282
-	-	-	-	-	-	-	-	-	-	-	-	24
484	1,091	20	-	-7,809	-224	87,317	-	-418	3,899	-10,068	-16,264	42,209
12	15	-2	-	-362	-4	-1,770	-	-51	-19	689	-	-2,698
-	-	-	-	-	-30	-	-	266	-	20	-	805
66	462	-9	-	-8,637	-3	10,343	-	277	-26	249	-	6,264
19	-	-1	-	-	-1	-	-	238	31	249	-	395
22	0	-	-	-3,533	-4	-	-	13	-460	-20	-	-3,252
234	11	24	-	-4,368	-42	-7,635	-	169	317	-681	-	-5,223
-15	170	6	-	-3,998	51	-	-	176	-456	-974	-	-16,199
96	-647	-19	-	-1,281	-3	-	-	112	-	573	-	-1,793
-	-5,823	0	-	-	-	-407,480	-	-1	-	-4,430	-	-414,039
378	-518	6	-	2,443	-	-439,995	-	42	-353	9,546	-	-451,047
1,296	-4,974	25	-	-27,600	-260	-794,278	-	753	2,580	9,266	-16,264	-869,812

3.22.7 Power Generation Capacity Table

Power Generation Capacity - Total

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Australia	24,141	31,230	32,450	33,228	34,446	34,819	35,000	34,435	33,884
Brunei Darussalam	148	256	268	285	387	387	334	334	336
Canada	81,999	95,224	97,019	100,074	101,273	101,055	101,960	102,947	104,631
Chile	2,940	3,352	3,967	3,987	4,033	4,015	4,079	4,079	4,809
China	65,869	80,120	87,053	93,818	102,897	115,497	126,638	137,891	151,473
Hong Kong, China	3,342	5,268	5,580	5,953	6,614	7,453	7,456	8,342	8,387
Indonesia	2,554	4,610	5,635	6,000	7,238	8,531	9,089	9,276	10,241
Japan	143,698	163,290	169,398	173,809	179,107	181,708	186,232	194,730	200,255
Republic of Korea	9,391	14,191	16,137	18,061	19,021	19,945	20,998	21,021	21,110
Malaysia	2,334	3,436	4,443	5,387	5,214	5,512	5,792	5,582	5,541
Mexico	14,625	19,360	20,807	21,266	23,145	23,954	24,445	25,299	26,799
New Zealand	6,112	7,139	7,532	7,732	7,597	7,684	7,662	7,640	7,258
Papua New Guinea	313	470	491	456	469	485	490	490	490
Peru	3,140	3,503	3,682	3,914	3,939	4,107	4,112	4,143	4,187
Philippines	4,478	5,909	6,222	6,503	6,545	6,640	6,863	6,869	6,789
Russia	168,200	-	195,800	198,100	204,700	208,400	211,200	213,400	212,900
Singapore	2,010	2,691	2,571	2,821	3,451	3,451	3,451	3,667	4,173
Chinese Taipei	9,056	12,960	15,970	16,595	16,589	16,589	16,594	16,883	18,383
Thailand	3,448	6,128	6,705	6,785	6,985	6,997	7,366	8,725	9,707
United States of America	578,600	635,083	655,182	664,781	674,075	677,647	684,616	690,465	739,535
Viet Nam	1,185	1,265	1,500	1,600	1,700	1,800	1,900	2,537	2,987

Power Generation Capacity - Thermal Power

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Australia	18,038	24,567	25,537	26,199	27,302	27,558	27,784	27,174	26,622
Brunei Darussalam	148	256	268	285	387	387	334	334	336
Canada	28,363	30,728	30,475	30,979	30,800	30,526	30,892	31,174	31,324
Chile	1,470	1,580	1,700	1,706	1,754	1,760	1,789	1,789	1,738
China	45,551	54,520	60,638	66,276	72,704	82,799	92,055	101,845	113,589
Hong Kong, China	3,342	5,268	5,580	5,953	6,614	7,453	7,456	8,342	8,387
Indonesia	2,176	4,044	4,540	4,930	5,586	6,421	6,976	7,041	7,985
Japan	98,071	108,598	110,161	112,265	114,675	115,551	119,304	124,984	127,452
Republic of Korea	7,647	11,073	11,048	11,070	11,073	11,043	11,043	11,065	11,050
Malaysia	1,721	2,523	3,121	3,961	3,788	4,085	4,371	4,185	4,144
Mexico	8,483	12,623	13,850	14,199	14,949	15,505	15,984	16,119	17,472
New Zealand	1,852	2,527	2,668	2,814	2,675	2,676	2,627	2,627	2,246
Papua New Guinea	213	355	366	316	329	325	335	335	335
Peru	1,273	1,504	1,515	1,698	1,721	1,731	1,741	1,744	1,730
Philippines	3,089	3,348	3,366	3,271	3,325	3,440	3,661	3,661	3,746
Russia	122,400	-	137,300	139,200	143,200	145,700	147,900	149,700	149,400
Singapore	2,010	2,691	2,571	2,821	3,451	3,451	3,451	3,667	4,173
Chinese Taipei	6,398	7,287	8,337	8,887	8,887	8,887	8,887	9,177	10,677
Thailand	2,178	4,414	4,701	4,689	4,729	4,729	5,095	6,451	7,252
United States of America	444,181	478,900	485,305	488,682	489,278	491,001	494,382	498,339	543,334
Viet Nam	890	920	1,000	1,080	1,160	1,240	1,320	1,362	1,313

Power Generation Capacity - Total (Continued)

											MW	
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
34,539	34,539	37,251	38,116	38,369	38,699	39,386	40,715	42,851	44,499	47,210	46,135	
386	386	475	650	707	707	769	770	763	761	761	860	
108,090	108,783	113,786	115,505	105,176	105,760	109,870	105,859	102,499	107,238	111,949	102,784	
4,809	4,809	5,504	5,577	6,715	7,546	7,546	9,941	10,372	10,912	11,433	11,474	
166,533	182,910	199,897	217,225	236,540	254,238	277,289	298,768	319,321	338,000	353,000	382,120	
8,932	9,037	10,323	10,096	10,092	10,876	11,312	11,312	11,568	11,568	11,606	11,683	
10,994	12,705	14,819	14,970	15,940	18,946	21,364	20,592	20,760	23,426	23,888	23,888	
205,133	213,033	220,898	226,995	233,737	242,445	250,290	253,544	258,838	261,730	266,129	268,287	
24,120	27,654	28,762	32,184	35,715	41,042	43,406	46,978	48,451	50,859	53,801	54,673	
6,700	6,857	9,000	10,600	12,500	13,541	13,606	12,696	13,762	14,813	15,671	20,119	
27,068	29,204	31,649	33,037	34,791	34,814	35,254	35,664	36,698	38,519	41,177	44,554	
7,592	7,865	7,924	7,915	7,938	7,900	8,103	8,882	8,301	8,042	7,848	7,951	
490	490	490	490	490	502	539	543	543	543	543	543	
4,152	4,371	4,371	4,520	4,682	5,021	5,516	5,742	6,070	5,907	5,936	5,970	
6,695	8,014	9,212	9,696	11,190	11,725	12,067	12,341	13,185	13,402	14,702	15,124	
213,000	213,400	214,900	215,000	214,500	214,200	213,411	205,411	214,011	212,768	214,860	215,998	
4,553	4,553	4,553	4,678	5,255	5,765	5,665	5,665	6,610	7,522	7,295	7,828	
19,234	19,354	20,983	21,898	23,763	25,735	25,743	25,743	27,385	27,434	31,916	34,761	
11,732	12,734	12,990	14,757	16,143	17,261	17,508	18,741	20,802	20,929	22,227	22,720	
749,894	760,428	760,315	775,582	775,890	778,649	775,868	785,927	811,719	848,254	905,301	953,206	
3,348	4,124	4,377	4,499	4,615	4,869	5,677	5,588	6,192	8,242	8,542	9,002	

Power Generation Capacity - Thermal Power (Continued)

											MW	
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
27,133	27,133	29,810	30,648	30,901	31,196	31,891	33,342	34,155	35,889	40,028	37,778	
386	386	475	650	707	707	769	770	763	761	761	860	
32,415	31,219	32,984	33,307	30,579	31,163	35,273	27,246	23,886	28,625	33,336	22,930	
1,738	1,738	2,247	2,246	2,928	3,721	3,721	5,914	6,244	6,781	6,987	6,989	
125,852	138,020	148,736	162,941	178,860	192,408	209,884	223,434	237,540	252,800	264,200	286,740	
8,932	9,037	10,323	10,096	10,092	10,876	11,312	11,312	11,568	11,568	11,606	11,683	
8,675	10,385	12,335	12,482	13,449	16,147	17,935	17,220	17,385	19,786	19,944	19,944	
130,745	132,851	138,049	141,665	146,074	152,202	159,054	161,869	166,648	168,729	172,889	174,721	
14,006	17,534	18,641	20,475	23,005	27,611	28,259	30,114	31,586	33,267	34,209	35,081	
5,155	5,280	7,340	8,840	10,268	11,516	11,502	10,882	11,708	12,695	13,565	18,004	
17,731	19,618	21,098	21,644	22,703	22,721	23,495	23,928	24,857	26,695	29,359	32,619	
2,247	2,247	2,252	2,402	2,422	2,232	2,422	2,935	2,612	2,272	2,135	2,159	
335	335	335	335	335	280	317	319	319	319	319	319	
1,701	1,921	1,921	2,053	2,138	2,524	2,943	3,068	3,210	2,940	2,938	3,032	
3,550	4,737	5,885	6,275	7,444	7,536	7,907	8,123	8,953	8,953	10,253	10,325	
148,400	148,800	149,700	149,700	149,100	149,000	148,400	140,000	148,900	146,670	147,213	147,955	
4,553	4,553	4,553	4,678	5,255	5,765	5,665	5,665	6,610	7,522	7,160	7,368	
11,526	11,634	12,191	12,571	14,331	16,303	16,311	16,311	17,819	17,868	22,261	25,106	
9,273	10,264	10,425	12,019	13,234	14,339	14,584	15,817	17,865	17,992	19,290	19,746	
551,498	557,495	556,305	571,275	561,699	564,083	563,876	572,593	598,883	634,895	689,521	736,728	
1,677	1,727	1,660	1,633	1,749	2,003	2,811	2,726	2,900	4,114	4,414	4,874	

Power Generation Capacity - Hydro Power

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Australia	6,103	6,663	6,913	7,029	7,144	7,261	7,216	7,261	7,262
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Canada	47,770	54,949	55,880	57,731	57,945	57,936	58,465	58,701	60,235
Chile	1,470	1,772	2,267	2,281	2,279	2,255	2,290	2,290	3,071
China	20,318	25,600	26,415	27,542	30,193	32,698	34,583	36,046	37,884
Hong Kong, China	-	-	-	-	-	-	-	-	-
Indonesia	378	536	1,065	1,040	1,512	1,970	1,973	2,095	2,116
Japan	29,776	33,966	34,337	35,698	36,386	37,291	37,483	37,831	39,118
Republic of Korea	1,157	1,202	2,223	2,225	2,232	2,236	2,339	2,340	2,444
Malaysia	613	913	1,322	1,426	1,426	1,427	1,421	1,397	1,397
Mexico	5,992	6,532	6,532	6,532	7,546	7,749	7,761	7,805	7,932
New Zealand	4,022	4,394	4,593	4,649	4,649	4,649	4,647	4,626	4,619
Papua New Guinea	100	115	125	140	140	160	155	155	155
Peru	1,868	1,998	2,166	2,216	2,219	2,375	2,371	2,400	2,457
Philippines	943	1,667	1,962	2,147	2,142	2,139	2,147	2,153	2,155
Russia	37,500	-	41,500	41,900	42,300	42,500	43,100	43,400	43,300
Singapore	-	-	-	-	-	-	-	-	-
Chinese Taipei	1,386	1,480	1,489	1,564	1,558	1,558	1,563	1,562	1,562
Thailand	1,270	1,714	2,004	2,096	2,256	2,268	2,271	2,274	2,455
United States of America	81,700	85,300	88,900	89,300	89,665	90,284	90,467	90,885	93,618
Viet Nam	250	300	450	470	490	510	530	1,176	1,674

Power Generation Capacity - Nuclear Power

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Australia	-	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Canada	5,866	9,547	10,664	11,364	12,528	12,593	12,603	13,052	13,052
Chile	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	15,689	20,726	24,686	25,846	28,046	28,866	29,445	31,645	33,404
Republic of Korea	587	1,916	2,866	4,766	5,716	6,666	7,616	7,616	7,616
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	675	675
New Zealand	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Philippines	-	-	-	-	-	-	-	-	-
Russia	8,300	-	17,000	17,000	19,200	20,200	20,200	20,300	20,200
Singapore	-	-	-	-	-	-	-	-	-
Chinese Taipei	1,272	4,193	5,144	5,144	5,144	5,144	5,144	5,144	5,144
Thailand	-	-	-	-	-	-	-	-	-
United States of America	51,810	69,652	79,397	85,241	93,583	94,695	98,161	99,624	99,609
Viet Nam	-	-	-	-	-	-	-	-	-

Power Generation Capacity - Hydro Power (Continued)

											MW	
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
7,406	7,406	7,441	7,466	7,466	7,501	7,491	7,370	7,691	7,691	6,219	7,380	
-	-	-	-	-	-	-	-	-	-	-	-	
61,668	62,101	63,953	64,770	61,379	61,379	61,379	62,722	62,722	62,722	62,722	63,953	
3,071	3,071	3,257	3,331	3,787	3,825	3,825	4,027	4,128	4,131	4,157	4,165	
40,681	44,890	49,061	52,184	55,580	59,730	65,065	72,971	79,352	82,700	84,550	88,710	
-	-	-	-	-	-	-	-	-	-	-	-	
2,179	2,125	2,178	2,180	2,183	2,436	3,065	3,012	3,015	3,113	3,155	3,155	
39,523	42,514	41,932	43,455	44,407	44,462	45,382	45,860	46,325	46,387	46,545	46,781	
2,498	2,504	2,505	3,093	3,094	3,115	3,131	3,148	3,149	3,876	3,876	3,877	
1,545	1,577	1,660	1,760	2,232	2,025	2,104	1,814	2,054	2,119	2,106	2,115	
7,932	8,171	9,121	9,329	10,034	10,034	9,700	9,618	9,619	9,619	9,608	9,608	
4,949	5,222	5,277	5,120	5,120	5,158	5,159	5,546	5,176	5,260	5,245	5,316	
155	155	155	155	155	222	222	224	224	224	224	224	
2,451	2,451	2,451	2,467	2,544	2,497	2,572	2,673	2,860	2,966	2,996	2,937	
2,257	2,259	2,254	2,258	2,300	2,303	2,304	2,304	2,301	2,518	2,518	2,867	
43,400	43,400	44,000	44,000	44,100	43,900	43,700	44,100	43,900	44,345	44,828	45,221	
-	-	-	-	-	-	-	-	-	-	-	-	
2,564	2,576	3,648	4,183	4,288	4,288	4,288	4,288	4,422	4,422	4,511	4,511	
2,459	2,470	2,565	2,738	2,909	2,922	2,923	2,923	2,936	2,936	2,936	2,973	
96,038	98,629	99,695	100,028	97,548	98,725	98,669	98,958	98,881	98,580	99,727	99,739	
1,671	2,397	2,717	2,866	2,866	2,866	2,866	2,862	3,292	4,128	4,128	4,128	

Power Generation Capacity - Nuclear Power (Continued)

											MW	
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
13,987	15,437	15,857	16,393	13,195	13,195	13,195	15,857	15,857	15,857	15,857	15,857	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	3,700	6,190	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
34,584	37,361	40,531	41,356	42,712	45,248	45,248	45,248	45,248	45,907	45,907	45,742	
7,616	7,616	7,616	8,616	9,616	10,316	12,016	13,716	13,716	13,716	15,716	15,716	
-	-	-	-	-	-	-	-	-	-	-	-	
675	675	675	1,309	1,309	1,309	1,309	1,368	1,365	1,365	1,365	1,365	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
21,200	21,200	21,200	21,300	21,300	21,300	21,300	21,300	21,200	21,730	22,742	22,742	
-	-	-	-	-	-	-	-	-	-	-	-	
5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144	5,144	
-	-	-	-	-	-	-	-	-	-	-	-	
99,006	99,061	99,168	99,148	100,784	99,716	97,070	97,411	97,860	98,159	98,657	98,794	
-	-	-	-	-	-	-	-	-	-	-	-	

Power Generation Capacity - Others

	1980	1984	1985	1986	1987	1988	1989	1990	1991
Australia	-	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	20	20
Chile	-	-	-	-	-	-	-	-	-
People's Republic of China	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
Indonesia	-	30	30	30	140	140	140	140	140
Japan	162	-	214	-	-	-	-	270	281
Republic of Korea	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	150	205	425	535	650	700	700	700	720
New Zealand	238	218	271	269	273	359	388	387	393
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Philippines	446	894	894	1,085	1,078	1,061	1,055	1,055	888
Russia	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Thailand	-	-	-	-	-	-	-	-	-
United States of America	909	1,231	1,580	1,558	1,549	1,667	1,606	1,617	2,974
Viet Nam	45	45	50	50	50	50	50	-	-

Power Generation Capacity - Others (Continued)

											MW	
1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
-	-	-	2	2	2	3	3	1,006	919	963	977	
-	-	-	-	-	-	-	-	-	-	-	-	
20	26	992	1,035	23	23	23	34	34	34	34	44	
-	-	-	-	-	-	-	-	-	-	289	320	
-	-	-	-	-	-	241	263	329	400	550	480	
-	-	-	-	-	-	-	-	-	-	-	-	
140	195	305	308	308	363	363	360	360	527	790	790	
281	307	386	519	544	533	606	567	617	707	788	1,043	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
730	740	755	755	745	750	750	750	857	840	845	962	
396	396	396	394	396	509	522	401	513	510	468	475	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	0	0	0	1	1	1	1	1	
888	1,018	1,073	1,163	1,446	1,886	1,856	1,914	1,931	1,931	1,931	1,932	
-	-	-	-	-	-	11	11	11	23	77	80	
-	-	-	-	-	-	-	-	-	-	135	460	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	1	1	1	1	1	1	
3,352	5,243	5,147	5,131	15,859	16,126	16,254	16,965	16,095	16,620	17,396	17,944	
-	-	-	-	-	-	-	-	-	-	-	-	

Appendix

The APEC Reporting Format (For Annual Data)

Table 1. The APEC Reporting Format for Energy Data

Year :

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
PRIMARY ENERGY SUPPLY						
INDIGENOUS PRODUCTION						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
LPG						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
HYDRO POWER						
NUCLEAR POWER						
GEOHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
GEOHERMAL HEAT						
SOLAR HEAT						
OTHERS						
TOTAL PRODUCTION						
OPENING STOCKS						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
BRIQUETTES						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
OTHERS						
TOTAL OPENING STOCKS						
CLOSING STOCKS						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
BRIQUETTES						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						

Table 1. The APEC Reporting Format for Energy Data (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NATURAL GAS						
LNG						
OTHERS						
TOTAL CLOSING STOCKS						
STOCK CHANGE						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
BRIQUETTES						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
OTHERS						
TOTAL STOCK CHANGE						
IMPORTS						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
BRIQUETTES						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
TOTAL IMPORTS						
EXPORTS						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
BRIQUETTES						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						

Table 1. The APEC Reporting Format for Energy Data (Continued)

Year :

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
TOTAL EXPORTS						
INTERNATIONAL MARINE BUNKERS						
TOTAL PRIMARY ENERGY SUPPLY						
TRANSFORMATION SECTOR (INPUT)						
COAL TRANSFORMATION						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
FUEL OIL						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
REFINING						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
NAPHTHA						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
GAS PROCESSING						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
COKE						
COKE OVEN GAS						
REFINERY GAS						
LPG						
NAPHTHA						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
POWER GENERATION (PUBLIC UTILITIES)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
LIGNITE						
BRIQUETTES						
COKE OVEN GAS						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
DIESEL OIL						
FUEL OIL						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
HYDRO POWER						
NUCLEAR POWER						
GEOTHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
OTHERS						

Table 1. The APEC Reporting Format for Energy Data (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
POWER GENERATION (AUTO PRODUCERS)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
LIGNITE						
COKE OVEN GAS						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
DIESEL OIL						
FUEL OIL						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
HYDRO POWER						
GEOHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
OTHERS						
TRANSFORMATION SECTOR (OUTPUT)						
COAL TRANSFORMATION						
COKE						
COKE OVEN GAS						
BRIQUETTES						
OTHER COAL PRODUCTS						
GAS RECOVERING						
BLAST FURNACE GAS						
REFINING						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
GAS PROCESSING						
COKE						
LNG						
TOWN GAS						
POWER GENERATION (PUBLIC UTILITIES)						
THERMAL						
COAL						
OIL						
GAS						
HYDRO POWER						
NUCLEAR POWER						
GEOHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
HEAT						
POWER GENERATION (AUTO PRODUCERS)						
THERMAL						
COAL						
OIL						
GAS						
HYDRO POWER						
GEOHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
HEAT						
TRANSFORMATION SECTOR (LOSSES AND OWN USE)						

Table 1. The APEC Reporting Format for Energy Data (Continued)

Year :

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
ELECTRICITY						
HEAT						
OTHERS						
TOTAL LOSSES AND OWN USE						
FINAL ENERGY CONSUMPTION TOTAL						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
OTHERS						
TOTAL						
AGRICULTURE						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						

Table 1. The APEC Reporting Format for Energy Data (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
Year : BLAST FURNACE GAS CRUDE OIL AND NGL/CONDENSATE CRUDE OIL NGL/CONDENSATE REFINERY GAS LPG NAPHTHA MOGAS JET FUEL AVGAS KEROSENE DIESEL OIL FUEL OIL OTHER PETROLEUM PRODUCTS NATURAL GAS AND LNG NATURAL GAS LNG TOWN GAS GEOTHERMAL HEAT SOLAR HEAT HEAT ELECTRICITY OTHERS TOTAL						
RESIDENTIAL COMMERCIAL COAL HARD COAL STEAM COAL COKING COAL SUBBITUMINOUS COAL ANTHRACITE LIGNITE COKE COKE OVEN GAS BRIQUETTES BLAST FURNACE GAS CRUDE OIL AND NGL/CONDENSATE CRUDE OIL NGL/CONDENSATE REFINERY GAS LPG NAPHTHA MOGAS JET FUEL AVGAS KEROSENE DIESEL OIL FUEL OIL OTHER PETROLEUM PRODUCTS NATURAL GAS AND LNG NATURAL GAS LNG TOWN GAS GEOTHERMAL HEAT SOLAR HEAT HEAT ELECTRICITY OTHERS TOTAL						
OTHERS COAL HARD COAL STEAM COAL COKING COAL SUBBITUMINOUS COAL ANTHRACITE LIGNITE COKE COKE OVEN GAS BRIQUETTES BLAST FURNACE GAS CRUDE OIL AND NGL/CONDENSATE CRUDE OIL NGL/CONDENSATE REFINERY GAS LPG NAPHTHA MOGAS JET FUEL AVGAS						

Table 1. The APEC Reporting Format for Energy Data (Continued)

Year :

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
OTHERS						
TOTAL						
INDUSTRY						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
OTHERS						
TOTAL						
TRANSPORT						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						

Table 1. The APEC Reporting Format for Energy Data (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HEAT						
ELECTRICITY						
OTHERS						
TOTAL						
NON-ENERGY						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
BRIQUETTES						
OTHER COAL PRODUCTS						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
KEROSENE						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
OTHERS						
TOTAL NON-ENERGY USE						

ELECTRICITY GENERATING CAPACITY

At the time of
unit: MW

THERMAL POWER		
COAL		
OIL		
GAS		
HYDRO POWER		
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

REFINING CAPACITY

At the time of

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	

(*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of
unit:

	1.	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION					
IMPORTS					
EXPORTS					
TOTAL					
TRANSFORMATION (INPUT)					
TRANSFORMATION (OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE					
RESIDENTIAL COMMERCIAL					
INDUSTRY					
TRANSPORT					
TOTAL					

note: fill the name and volume of non-commercial energy

Table 2. The APEC Reporting Format for Disaggregated Data for Final Energy Demand

Year :

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
I INDUSTRIAL SECTOR						
1.1 IRON AND STEEL (*1)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS/LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
PUBLIC UTILITIES						
AUTOPRODUCERS						
OTHERS						
TOTAL						
1.2 CHEMICAL AND PETROCHEMICAL (*2)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS/LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
PUBLIC UTILITIES						
AUTOPRODUCERS						
OTHERS						
TOTAL						
1.3 NON-FERROUS METALS (*3)						
COAL						

Table 2. The APEC Reporting Format for Disaggregated Data for Final Energy Demand (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS/LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
PUBLIC UTILITIES						
AUTOPRODUCERS						
OTHERS						
TOTAL						
1.4 NON-METALLIC MINERAL PRODUCTS (*4)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS/LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
PUBLIC UTILITIES						
AUTOPRODUCERS						
OTHERS						
TOTAL						
1.5 PAPER, PULP AND PRINTING (*5)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						

Table 2. The APEC Reporting Format for Disaggregated Data for Final Energy Demand (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS/LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
PUBLIC UTILITIES						
AUTOPRODUCERS						
OTHERS						
TOTAL						
1.6 OTHER INDUSTRIES (*6)						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
COKE						
COKE OVEN GAS						
BRIQUETTES						
BLAST FURNACE GAS						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS/LNG						
NATURAL GAS						
LNG						
TOWN GAS						
GEOHERMAL HEAT						
SOLAR HEAT						
HEAT						
ELECTRICITY						
PUBLIC UTILITIES						
AUTOPRODUCERS						
OTHERS						
TOTAL						
2 TRANSPORTATION SECTOR						
2.1 AIR (*7)						
COAL						
LPG						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
ELECTRICITY						
OTHER PETROLEUM PRODUCTS						
TOTAL						

Table 2. The APEC Reporting Format for Disaggregated Data for Final Energy Demand (Continued)

MEMBER NAME	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
2.2 ROAD						
COAL						
LPG						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
ELECTRICITY						
OTHER PETROLEUM PRODUCTS						
TOTAL						
2.3 RAIL						
COAL						
LPG						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
ELECTRICITY						
OTHER PETROLEUM PRODUCTS						
TOTAL						
2.4 INTERNAL NAVIGATION						
COAL						
LPG						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
ELECTRICITY						
OTHER PETROLEUM PRODUCTS						
TOTAL						
3 RESIDENTIAL AND COMMERCIAL SECTOR						
3.1 COMMERCE AND PUBLIC SERVICE						
COAL						
COKE						
BRIQUETTES						
LPG						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS						
TOWN GAS						
GEOHERMAL						
SOLAR						
OTHER COMMERCIAL						
ELECTRICITY						
HEAT						
TOTAL						
3.2 RESIDENTIAL						
COAL						
COKE						
BRIQUETTES						
LPG						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS						
TOWN GAS						
GEOHERMAL						
SOLAR						
OTHER COMMERCIAL						
ELECTRICITY						
HEAT						
TOTAL						

Note:

(*1) ISIC Group 271 and class 2731

(*2) ISIC Division 24

(*3) ISIC Group 272 and class 2732

(*4) ISIC Division 26

(*5) ISIC Division 21 and 22

(*6) Industries other than those classified in (*1), (*2), (*3), (*4) and (*5)

(*7) Air transport (international and domestic)

Table 3. The APEC Reporting Format for Energy Price Data

Year:

MEMBER NAME	Unit	Price	Note
IMPORT CIF PRICES COAL STEAM COAL COKING COAL CRUDE OIL PETROLEUM PRODUCTS LPG NAPHTHA MOGAS JET FUEL KEROSENE DIESEL OIL FUEL OIL NATURAL GAS (LNG)			
WHOLESALE PRICES COAL STEAM COAL COKING COAL NATURAL GAS TOWN GAS PETROLEUM PRODUCTS NAPHTHA MOGAS JET FUEL KEROSENE DIESEL OIL FUEL OIL LPG ELECTRICITY (INDUSTRY) ELECTRICITY (COMMERCIAL)			
CONSUMER PRICES COAL STEAM COAL NATURAL GAS TOWN GAS PETROLEUM PRODUCTS MOGAS KEROSENE DIESEL OIL LPG ELECTRICITY (RESIDENTIAL)			

The APEC Reporting Format for Quarterly Energy Data

Member Name:

Coal

Unit: 1,000ton

		Production	Imports	Exports	Consumption (Sales)		
					Total	Electricity	Others
2002	JAN.						
	FEB.						
	MAR.						
	1st quarter						

Oil

Unit: 1,000bbl or 1,000kL

		Crude Oil				Petroleum Products			
		Production	Imports	Exports	Throughput	Production Total	Consumption (Sales)		
							Total	MOGAS	Diesel Oil
2002	JAN.								
	FEB.								
	MAR.								
	1st quarter								

Natural Gas (or LNG)

Unit: 1,000CF or 1,000CM (or 1,000ton for LNG)

		Production	Imports	Exports	Consumption (Sales)		
					Total	Electricity	Others
2002	JAN.						
	FEB.						
	MAR.						
	1st quarter						

Electricity

Unit: GWh

		Gross Generation					Imports	Exports	Consumption (Sales)
		Total	Thermal	Hydro	Nuclear	Others			
2002	JAN.								
	FEB.								
	MAR.								
	1st quarter								

Note: ton=Metric ton.

bbl=Barrel.

kL=killoliter.

CF=Cubic feet.

CM=Cubic meter.

GWh=Giga watt hour.

Gross Generation is the sum of the electrical energy production by all the generating sets (including pumped storage).

Consumption for Electricity exclude Own Use and Loss.

Definition of the APEC Energy Data Reporting Format (Table 1)

A. General note

The format includes all "commercial" sources of energy, both primary and secondary. Data for non-commercial energy and capacities of electricity, oil refining should be given in a separate table. This table is divided into three main parts; the first shows supply element; the second gives the transformation; the third shows final consumption broken down into the various end-use sectors.

B. Sectors

1. Indigenous production

Quantities of fuels extracted within the economy.

2. Opening stocks

Stock level at the beginning of the year.

3. Closing stocks

Stock level at the end of the year.

4. Stock change

Defined as the opening stocks minus the closing stocks. 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.

5. Imports

Quantities of energy entering the territory usually excluding energy in transit.

6. Exports

Quantities of energy sold by a economy outside its borders.

7. Bunkers

Also known as international marine bunkers; quantities of fuel supplied to sea-going ships whatever their flags and category.

8. Total primary energy supply

Defined as indigenous production plus imports minus exports minus bunkers plus or minus stock change.

9. Transformation sector (input)

All the primary energy and some secondary energy (coal products) amounts to be input or consumed into transformation sectors such as refineries, power plants and gas plants, in order to generate the secondary energy.

(i) Coal Transformation

Consumption amounts of hard coals such as coking coal, steam coal, subbituminous coal and lignite for production of coke, coke oven gas, blast furnace gas and briquettes.

(ii) Refining

Consumption amounts of crude oil, NGL and condensate for production of petroleum products, such as naphtha, Mogas, jet fuel, kerosene, diesel oil, fuel oil, LPG and so on. Consumption amounts of natural gas for production of synthetic petrol is also included.

(iii) Gas processing

Consumption amounts of coal such as coking coal, steam coal, coal products such as coke and coke oven gas, petroleum products such as LPG, naphtha, refinery gas, and natural gas.

(iv) Power generation (public utilities)

Consumption amounts in thermal power plants:

- Coal, Coal products (coke oven gas and blast furnace gas)
- Crude oil, Petroleum products (fuel oil, LPG and naphtha, etc.)
- Natural gas

Generated amounts of electricity and their efficiency in hydro plants, nuclear plants, geothermal plants, wind power plants, tide power plants and photovoltaic power plants.

Consumption amounts of other fuel sources such as waste for electricity in other power plants.

(v) Power generation (private, auto producers)

Consumption amounts in thermal power plants:

- Coal, Coal products (coke oven gas and blast furnace gas)
- Crude oil, Petroleum products (fuel oil, LPG and naphtha, etc.)
- Natural gas

Generated amounts of electricity and their efficiency in hydro plants, nuclear plants, geothermal plants, wind power plants, tide power plants and photovoltaic power plants.

Consumption amounts of other fuel sources such as waste for electricity in other power plants.

10. Transformation sector (output)

The secondary energy amounts to be generated from the transformation sector.

(i) Coal transformation

Production amounts of coke, coke oven gas, briquettes and other coal products.

(ii) Gas recovering

Production amounts of blast furnace gas.

(iii) Refining

Production amounts of petroleum products such as naphtha, Mogas, jet fuel, kerosene, diesel oil, fuel oil, LPG, refinery gas and others. Synthetic petrol from natural gas is also included.

(iv) Gas processing

Production amounts of town gas, coke and LNG.

(v) Power generation (public utilities)

Generation amounts of electricity derived from thermal plants, hydro plants, nuclear plants, geothermal plants and other. The thermal plants are also divided into coal, oil and gas.

(vi) Power generation (private, auto producers)

Generation amounts of electricity derived from thermal plants, hydro plants, nuclear plants, geothermal plants and other. The thermal plants are also divided into coal, oil and gas.

11. Transformation sector (losses and own use)

This category comprises both losses and own use. Losses include all losses due to transport and distribution, including those from pipelines. Own uses include all own use for coal transformation plants, refinery plants, power plants (include gross electricity consumed for pumped storage), gas works plants and also include energy used

for coal mines, oil and gas extraction.

12. Final energy consumption total

Defined as agriculture plus residential commercial plus industry plus transport plus non-energy.

13. Agriculture

Energy use in performing agricultural, hunting, forestry and fishing operations.

14. Residential Commercial

(i) Residential

All consumption by households

(ii) Commercial

Consumption of the commercial and public sectors specified in the sub-sectors:

- Wholesale and retail trade
- Hotels and restaurants
- Financial intermediation
- Real estate, renting and business activities
- Public administration and defense, compulsory social security
- Education
- Health and social work
- Other community, social and personal service activities
- Extra-territorial organization and bodies
- Post and telecommunications

15. Industry

Consumption of the industry sector is specified in the following sub-sectors (energy use for transport by industry is not included here but reported under transport):

- Iron and steel industry
- Chemical industry
- Non-ferrous metals basic industries
- Non-metallic mineral products such as glass, ceramic, cement, etc.
- Transport equipment
- Machinery. Fabricated metal products, machinery and equipment other than transport equipment
- Mining (excluding fuels) and quarrying
- Food processing, beverages and tobacco
- Pulp, paper and printing

- Wood and wood products (other than pulp and paper)
- Construction
- Textiles and leather
- Collection, Purification and Distribution of water
- Non-specified (any manufacturing industry not included above)

16. Transport

Consumption of the Transport sector covers all transport activity regardless of the economic sector to which it is contributing, and is divided into the following sub-sectors:

- Air transport (international and domestic)
- Road transport
- Railways

17. Non-energy

Non-energy use covers use of other petroleum products such as white spirit, paraffin waxes, lubricants, bitumen and other products (tar, sulphur, and grease). It also covers other coal products (coal tar and creosote oil). They are shown separately by final consumption sector under the heading non-energy use and are included on total final consumption. It is assumed that the use of these products is exclusively non-energy use. It should be noted that 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 (paragraph 15). This covers all oil including naphtha, except the other petroleum products listed above, and gas used as petrochemical feedstocks. Gas used as raw material for chemical products such as methanol and ammonia/urea is also included.

C. Sources

1. Coal

Defined as hard coal plus anthracite plus lignite.

(i) Hard coal

Defined as steam coal plus coking coal plus subbituminous coal.

a. Steam coal

Steam coal is coal used for steam raising and space

heating purposes and includes Bituminous coals not included Coking coal. Its gross calorific value is greater than 23,865 kJ/kg (5,700 kcal/kg), but usually lower than that of coking coal.

b. Coking coal

Coking coal refers to 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.

c. Subbituminous coal

Non-agglomerating coals with a gross calorific value of between 17,435 kJ/kg (4,165 kcal/kg) and 23,860 kJ/kg (5,700 kcal/kg) containing more than 31 percent volatile matter on a dry mineral matter free basis.

(ii) Anthracite

Same as steam coal above mentioned.

(iii) Lignite (Brown coal)

Lignite is a non-agglomerating coal with a gross calorific value of less than 17,435 kJ/kg (4,165 kcal/kg), and greater than 31 percent volatile matter on a dry mineral matter free basis.

2. Coal products

Defined as coke plus briquettes plus coke oven gas plus blast furnace gas plus other coal products.

(i) Coke

This category comprises both "coke oven coke" and "gas coke". Coke oven coke is the solid product obtained from the carbonization of coal, principally coking coal, at high temperature. Gas coke is a by-product of hard coal used for the production of town gas in gas works. Gas coke is used for heating purposes.

(ii) Briquettes

Briquettes are composition fuels manufactured from brown coal, produced by briquetting under high pressure. These figures include peat briquettes, dried brown coal, fines and dust and brown coal breeze.

(iii) Coke oven gas

Coke oven gas is obtained as a by-product of the manufacture of coke oven coke for the production of iron and steel.

(iv) Blast furnace gas

Blast furnace gas is produced during the combustion of coke burnt in furnaces in the iron and steel industry. It

is recovered and used as a fuel for various purposes, among others in power plants.

(v) Other Coal Products

Other coal products comprise coal tar, creosote oil and others that are by-product of coal used for coal transformation process.

3. Crude oil and NGL/Condensate

(i) Crude oil

Crude oil is a mineral oil consisting of a mixture of hydrocarbons of natural origin, yellow to black in color, of variable density and viscosity.

(ii) NGL/Condensate

NGL is liquid or liquefied hydrocarbons produced in the manufacture, purification and stabilization of natural gas. This is those portions of natural gas which are recovered as liquids in separators, field facilities, or gas processing plants. NGL includes ethane, propane, butane, pentane, natural gasoline and condensates. It may also include quantities of non-hydrocarbons.

This item also includes lease condensate (separator liquids), which is recovered from gaseous hydrocarbons in lease separation facilities.

4. Petroleum products

Total of all petroleum products, such as LPG, naphtha, MOGAS, AVGAS, jet fuel, kerosene, diesel oil, fuel oil, refinery gas and other petroleum products.

(i) LPG

This is the light hydrocarbon fraction of the paraffin series, derived from refinery processes and from crude oil stabilization plants comprising propane (C₃H₈) and butane (C₄H₁₀) or a mixture of these two hydrocarbons.

(ii) Naphtha

Naphtha includes light or medium oils, a cut covering the end of the motor spirit and the beginning of the kerosene range. Naphtha distills between 30 °C and 210 °C.

(iii) MOGAS

This is light hydrocarbon oil for use in internal engines such as motor vehicles, excluding aircraft. Motor gasoline is distilled between 35 °C and 215 °C and treated by reforming, catalytic cracking or blending with aromatic fraction to reach a sufficiently high octane number (≥80 RON).

(iv) AVGAS

AVGAS (aviation gasoline) 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.

(v) Jet fuel

This category comprises both gasoline and kerosene type jet fuels meeting specifications for use in aviation turbine power units.

Gasoline type: This includes all light hydrocarbon oils, distilling between 100 °C and 250 °C. It distills at least 20 percent in volume at 143 °C.

Kerosene type: This medium oil with same distillation characteristics and flash point as kerosene, with a maximum aromatic content of 22 percent in volume, and treated to give a kinematic viscosity of less than 18 cSt at -20 °C (and a freezing point below -47 °C), octane number varying from 80 to 145 RON.

(vi) Kerosene

Kerosene comprises refined petroleum distillate intermediate in volatility between gasoline and gas/diesel oil. It is a medium oil distilling between 150 °C and 300 °C, which distills at least 65 percent in volume at 250 °C. Its specific gravity is in the region of 0.80 and the flash point is above 38 °C.

(vii) Diesel oil

Diesel oil includes heavy gas oils. Gas oils are obtained from the lowest fraction from atmospheric distillation of crude oil, while heavy gas oils obtained by vacuum redistillation of the residual from atmospheric distillation.

(viii) Fuel oil

Fuel oil defines oils that make up the distillation residue. It comprises all residual fuel oils (including those obtained by blending). Its kinematic viscosity is above 10 cSt at 80 °C. The flash point is always above 50 °C. and the density is always more than 0.90.

(ix) Refinery gas

Refinery gas is defined as non-condensable gas obtained during distillation of crude oil or treatment of oil products (e.g. cracking) in refineries. It consists mainly of hydrogen, methane, ethane, and olefins.

(x) Other petroleum products

The category, "Other petroleum products", groups together white spirit and SBP, lubricants, bitumen, paraffin waxes and others (tar, sulfur, grease).

5. Gas

Defined as natural gas and LNG plus town gas.

(i) Natural gas and LNG

a. Natural gas

Natural gas consists mainly of methane occurring naturally in underground deposits associated with crude oil or gas recovered from coal mines (colliery gas). Sewage gas is also included.

b. LNG

LNG is liquefied natural gas.

(ii) Town gas

Town gas covers all types of gas produced in public utility or private plants, whose main purpose is production, transport and distribution of gas. It includes gas produced by carbonisation (including gas produced by coke ovens at gas works), by total gasification with or without enrichment with oil products, by cracking of natural gas, and by reforming and simple mixing of gases and/or air. Town gas also includes substitute natural gas, which is a high calorific value gas manufactured by chemical conversion of a hydrocarbon fossil fuel.

6. Hydro power

Power generation from hydro plants, including pumped up plants.

7. Nuclear power

Power generation from nuclear plants.

8. Geothermal power

Power generation from geothermal plants.

9. Wind

Power generation from wind energy.

10. Tide

Power generation from tide, wave and ocean energy.

11. Photovoltaic power

Power generation from solar energy.

12. Other power

Power generation from other fuel sources such as defined in "Others" energy.

13. Geothermal heat

Heat obtained from geothermal energy.

14. Solar heat

Heat obtained from solar energy.

15. Others

Comprises commercial materials used as fuels directly and materials used for power generation such as peat, wood and wood waste, vegetal, municipal and industrial waste, landfill and sludge gas, and sulphite lies ("black liquor") as residual from the paper industry.

16. Electricity

Shows net electricity production which is defined as gross production less own use of power plants which appears in the "losses and own use" sector. Net electricity production is measured at the station busbars, after deduction of electricity consumed within the station. Fuel consumption in thermal power plants are split into public utilities and autoproducers.

17. Heat

Heat obtained from the combined heat and power plants (CHP) and from autoproducer's heat that is sold to a third party (e.g. to a network).

D. Conversion Factors

Net calorific value must be applied for conversion from physical quantities to thermal quantities as following "IEA Energy Statistics".

Definition of the APEC Energy Data Reporting Format (Table 2)

A. General note

The format shows all "commercial" energy consumption in the specified sectors.

B. Sectors

1. Industry Sector

The industry sector comprises following six sectors:

- 1.1 Iron and Steel [ISIC Group 271 and Class 2731];
- 1.2 Chemical and Petrochemical [ISIC Division 24];
- 1.3 Non-ferrous Metals [ISIC Group 272 and Class 2732];
- 1.4 Non-metallic Mineral Products [ISIC Divisions 26];
- 1.5 Paper, Pulp and Printing [ISIC Divisions 21 and 22];
- 1.6 Other Industries (industry not included above)

2. Transport Sector

Energy consumption in the Transport sector covers all transport activity (in mobile engines) regardless of the economic sector to which it is contributing [ISIC Divisions 60, 61 and 62], and is divided into the following sub-sectors:

- 2.1 Air: Deliveries of aviation fuels to international civil aviation and all domestic air transport.
- 2.2 Road: All fuels used in road vehicles as well as agricultural and industrial highway use. Excludes motor gasoline used in stationary engines, and diesel oil for use in tractors that are not for highway use.
- 2.3 Rail: All quantities used in rail traffic, including industrial railways.
- 2.4 Internal navigation (including small craft and coastal vessels not purchasing their bunker requirements under international marine bunker contracts). Fuel used for ocean, coastal and inland fishing should be included in agriculture.

3. Residential and Commercial Sector

- 3.1 Commercial and Public Service: All activities coming into 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.

- 3.2 Residential: All consumption by households excluding fuels used for transport. Includes households with employed persons [ISIC Divisions 95].

C. Sources

Refer to the Definition of Revised APEC Energy Data Reporting Format (Table 1)

Definition of the APEC Energy Data Reporting Format (Table 3)

A. General note

The format includes three types of annual energy prices. They are:

- Import CIF Prices
- Wholesale Prices
- Consumer Prices

The format accepts not only real prices but also indices.

B. Sectors

1. Import CIF Prices

These prices are obtained by dividing value by 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.

2. Wholesale Prices

Energy prices to be purchased by industry are reported.

3. Consumer Prices

Energy prices to be purchased by households are reported.

C. Sources

Following energies are objective to collection of price data;

- Coal
- Crude Oil
- Petroleum Products
- Natural Gas
- Town Gas
- Electricity

Definition of Columns and Rows of the Energy Balance Table

A. Unit

For the purpose of presenting its energy balances the APEC has adopted kcal and Joule. 10^7 kilo calories (41.868 giga joules) is defined as one ton of oil equivalent. This quantity of energy is, within a few percent, equal to the net heat content of 1 ton of crude oil.

B. 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.

C. Layout

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

(1) 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 hard coal, lignite and brown coal.

Column 2:

Coal Products includes all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coke oven gas and blast furnace gas.

Column 3:

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

Column 4:

Petroleum products comprises LPG, refinery gas, aviation gasoline, motor gasoline, jet fuels, kerosene, gas/diesel oil, residual fuel, naphtha, white spirit, lubricants, bitumen, paraffin waxes, petroleum coke and other petroleum products.

Column 4.1:

Mogas is light hydrocarbon oil for use in internal engines such as motor vehicles, excluding aircraft. Motor gasoline is distilled between 35 °C and 215 °C and treated by reforming, catalytic cracking or blending with aromatic fraction to reach a sufficiently high octane number (≥ 80 RON).

Column 4.2:

Naphtha includes light or medium oils, a cut covering the end of the motor spirit and the beginning of the kerosene range. Naphtha distills between 30 °C and 210 °C.

Column 4.3:

Jet fuel comprises both gasoline and kerosene type jet fuels meeting specifications for use in aviation turbine power units.

Gasoline type: This includes all light hydrocarbon oils, distilling between 100 °C and 250 °C. It distills at least 20 percent in volume at 143 °C.

Kerosene type: This medium oil with same distillation characteristics and flash point as kerosene, with a maximum aromatic content of 22 percent in volume, and treated to give a kinematic viscosity of less than 18cST at -20 °C (and a freezing point below -47 °C), octane number varying from 80 to 145 RON.

Column 4.4:

Kerosene comprises refined petroleum distillate intermediate in volatility between gasoline and gas/diesel oil. It is a medium oil distilling between 150 °C and 300 °C, which distills at least 65 percent in volume at 250 °C. Its specific gravity is in the region of 0.80 and the flash

point is above 38 °C.

Column 4.5:

Diesel oil includes heavy gas oils. Gas oils are obtained from the lowest fraction from atmospheric distillation of crude oil, while heavy gas oils obtained by vacuum redistillation of the residual from atmospheric distillation.

Column 4.6:

Fuel oil defines oils that make up the distillation residue. It comprises all residual fuel oils (including those obtained by blending). Its kinematic viscosity is above 10 cSt at 80 °C. The flash point is always above 50 °C. and the density is always more than 0.90.

Column 4.7:

LPG is the light hydrocarbon fraction of the paraffin series, derived from refinery processes and from crude oil stabilization plants comprising propane (C₃H₈) and butane (C₄H₁₀) or a mixture of these two hydrocarbons

Column 4.8:

Refinery gas is defined as non-condensable gas obtained during distillation of crude oil or treatment of oil products (e.g. cracking) in refineries. It consists mainly of hydrogen, methane, ethane, and olefins.

Column 4.9:

The category, "Other petroleum products", groups together white spirit and SBP, lubricants, bitumen, paraffin waxes and others (tar, sulfur, grease).

Column 5:

Gas includes natural gas (excluding natural gas liquids).

Column 5.1:

Natural gas consists mainly of methane occurring naturally in underground deposits associated with crude oil or gas recovered from coal mines (colliery gas). Sewage gas is also included.

Column 5.2:

LNG is liquefied natural gas.

Column 6:

Town Gas includes gas processing gas and gas works gas.

Column 7:

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 9.1:

Power generation from geothermal plants.

Column 9.2:

Power generation from wind tide, wave and ocean energy.

Column 9.3:

Heat obtained from geothermal energy.

Column 9.4:

Heat obtained from solar energy.

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). But non-commercial ones are excluded.

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).

(2) 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 and natural LPG, natural gas, hydro and nuclear, geothermal etc. electricity and hers.

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:

Public 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 8:

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 9:

Where there is a production of gas at Gas Processing the treatment is similar to that for electricity generation, with the quantity produced appearing as a positive figure in column 6 "Town 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 10:

The row Petroleum refineries shows the transformation of crude oil, NGL and condensate to petroleum products. The production of synthetic petrol from natural gas is also included.

Row 11:

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 12:

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 13:

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

Row 14:

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 15:

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

Row 16:

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 17:

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

Row 18:

Consumption of the Agriculture sector.

Row 19:

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

Row 20:

Other shows non-specified use which may include military use.

Row 21:

Non-energy use covers use of other 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.

Conversion Factors

A. Gas

To convert the gross heat content of a gas to its net heat content, the following multiplying factors may be used.

Natural gas	0.9
Gas processing gas	0.9
Coke oven gas	0.9
Blast furnace gas	1.0

B. 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.

C. Crude Oil

The conversion factors of each economy are applied.

D. Petroleum Products

The conversion factors of each economy are applied.

E. 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.

F. Others

The following conversion factor is used for other energy, such as wood, wood waste, black liquor etc.

1 TJ (net) = 0.00002388 MTOE

G. Heat

Information on heat is supplied in net tera joules. 1 TJ = 0.00002388 MTOE.

