



**Asia-Pacific  
Economic Cooperation**

# **APEC ENERGY STATISTICS 2002**

**Energy Working Group  
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Coordinating Agency:

**The Energy Data and Modelling Center  
The Institute of Energy Economics, Japan**

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## PREFACE

APEC Energy Statistics 2002 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 2001 and 2002, Original Tables of Energy Demand and Supply, Final Energy Demand by Disaggregated Sectors and Energy Price for 2002. 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 1980-2002 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 2002 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	<b>ELECTRICITY GENERATING CAPACITY TABLE</b>
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 2002/2003 standard run is shown below.

Table 1-4 Schedule for the 2002/2003 Standard Run

Energy Data	Format Distribution	Format Deadline
1 <sup>st</sup> Quarter, 2003	-	31 July 2003
2 <sup>nd</sup> Quarter, 2003	-	31 Oct. 2003
3 <sup>rd</sup> Quarter, 2003	-	31 Jan. 2004
4 <sup>th</sup> Quarter, 2003	-	30 Apr. 2004
2002 Annual	20 Sept. 2003	30 Nov. 2003

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

All member economies submitted 2002 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.

The simplified format for collecting quarterly data has increased the response rate of members and improved the quality of the data. So far fifteen 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 1994-2002 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.

## e. Notes

Below are specific cases that require caution with respect to the energy data, which should be noted when handling the APEC energy statistics.

- 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 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.

- 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.

- 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.

- 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  $1 \times 10^7$  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;

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

- The member economies in the ASEAN place the transformation of natural gas to LNG under "Gas Processing" in the sector on transformation. However, other member economies like OECD countries 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.

### 1.1.2 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
Australia	100	-	-	100 <sup>(*)1</sup>
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 <sup>(*)2</sup>
Republic of Korea	100	33.0	-	-
Malaysia	100	-	-	-
Mexico	100	33.3	10	100 <sup>(*)3</sup>
New Zealand	100	-	10	-
Papua New Guinea	100	-	-	100 <sup>(*)3</sup>
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 <sup>(*)4</sup>
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 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.

### 1.3 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.iecej.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 2002 are

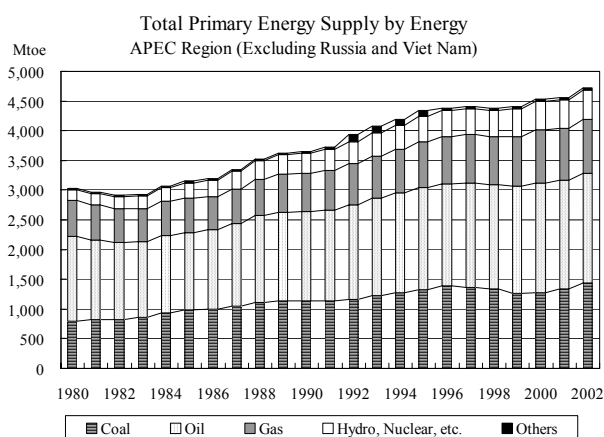
available for these two economies.

## 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 2002 of 4,724 Mtoe was 3.6% up from the 2001 level of 4,560 Mtoe, a rebound after the fifth year of a financial and economic crisis in Asia. In the period from 1980 to 2002, primary energy supply averaged 2.0% 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 0.62 for this period.

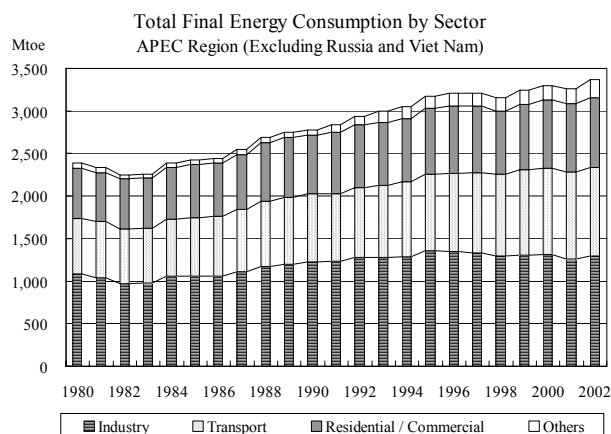


For the period 1980 to 2002, coal supply rose by an average of 2.7% per annum to reach 1,439 Mtoe in 2002. Oil supply rose by an average of 1.2% per annum to reach 1,847 Mtoe in 2002. Gas supply increased 1.8% per annum to reach 902 Mtoe. The supply of hydro, nuclear, etc. grew by 4.8% per annum to reach 491 Mtoe. The category of “Other” grew 2.7% per annum, the total was small as 45 Mtoe and the share was only 1.0% in 2002.

### 2.2.2 Final Energy Consumption

The level of final energy consumption in 2002 of 3,370 Mtoe was 3.4% up from the 2001 level of 3,260 Mtoe, grew 1.6% per annum from 2,387 Mtoe in 1980.

This growth rate for 22 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 3.0%, from 798 Mtoe in 2001 to 822 Mtoe in 2002. The transport sector grew by 1.3% from 1,023 Mtoe in 2001 to 1,037 Mtoe in 2002. Consumption in the industrial sector grew slowly (0.8% per annum from 1980 to 2002) and grew 3.0% from 2001 to 2002, the total of 1,298 Mtoe was the largest for all sectors in 2002. The industry sector share of the total was 38.5%, the transportation sector share 30.8%, and the residential/commercial sector share 24.4%.

By energy source, oil consumption grew by 1.1% from 1,650 Mtoe in 2001 to 1,668 Mtoe in 2002, averaging 1.5% per annum from 1,211 Mtoe in 1980.

Electricity consumption rose by 5.7% from 600 Mtoe in 2001 to 635 Mtoe in 2002. Gas consumption increased by 2.6% from 551 Mtoe in 2001 to 565 Mtoe in 2002. Coal consumption grew by 10.4% from 393 Mtoe in 2001 to 434 Mtoe in 2002, after the five years in a row of decline.

### 2.2.3 Energy Balance Table

This section presents the 2002 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:

- More than 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) 2002													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	1,485	-	917	63	846	-	97	355	38	47	-	-	3,848
2 Import	222	3	1,096	303	204	-	-	-	-	-	6	-	1,834
3 Export	-249	-11	-256	-209	-164	-	-	-	-	-2	-5	-	-896
4 International Marine Bunkers	-	-	-	-76	-	-	-	-	-	-	-	-	-76
5 Stock Change	-11	0	-3	13	16	-	-	-	-	-0	-	-	14
6 Total Primary Energy Supply	1,447	-8	1,754	93	902	-	97	355	38	45	1	-	4,724
7 Public Electricity	-903	-6	-24	-85	-180	-2	-92	-284	-24	-5	606	40	-959
8 Autoproducers of Electricity	-119	-3	-12	-14	-94	-0	-5	-71	-13	-11	135	1	-206
9 Gas Processing	-6	0	-2	14	-67	51	-	-	-	-	-	-	-9
10 Petroleum Refineries	-	-	-1,728	1,724	-2	-	-	-	-	-	-0	-	-6
11 Coal Transformation	-171	164	-	-1	-0	-	-	-	-	-	-0	-	-9
12 Loss & Own Use	-21	-4	-8	-98	-45	-2	-	-	-0	-	-62	-9	-250
13 Discrepancy	68	-3	23	32	5	-0	-	-	0	6	-45	-0	85
14 Total Final Energy Consumption	294	139	3	1,665	519	46	-	-	1	34	635	32	3,370
15 Industry Sector	209	126	1	367	269	19	-	-	0	20	264	23	1,298
16 Transport Sector	5	0	0	1,013	13	0	-	-	-	-	6	0	1,037
17 Other Sector	52	8	0	221	221	27	-	-	1	14	360	9	914
17.1 Agriculture	7	1	-	40	1	0	-	-	0	1	10	0	59
17.2 Residential & Commercial	42	7	0	161	219	27	-	-	1	14	343	8	822
17.3 Other	3	0	0	20	1	-	-	-	-	-	7	1	32
18 Non-energy	4	5	2	58	15	-	-	-	-	0	-	-	83

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

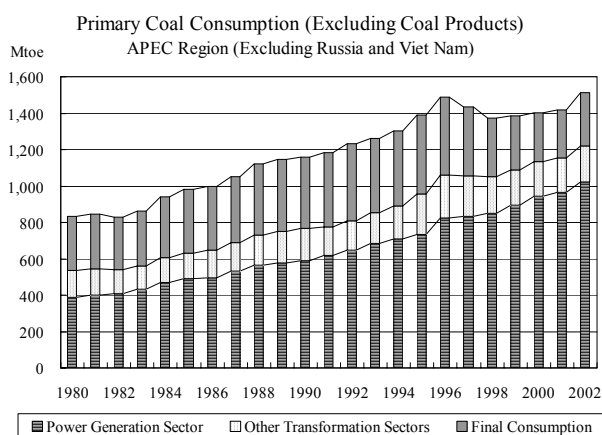
### 2.3 Analysis of Energy Supply and Demand by Energy Sources

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 7.5% in 2002 over the year before (from 1,346 Mtoe in 2001 to 1,447 Mtoe in 2002). The coal share in the total primary energy supply increased until 1985, and remained around 30% thereafter.

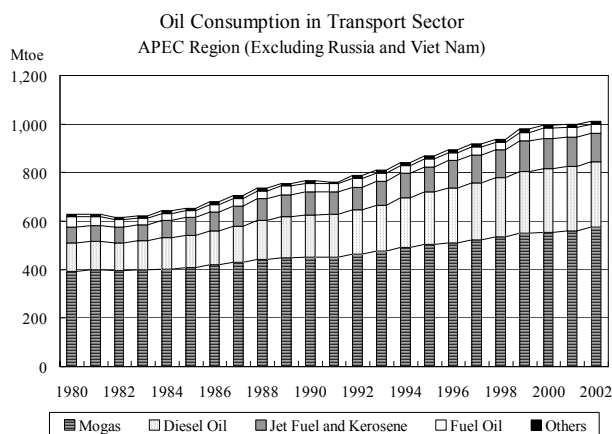
Most coal (excluding coal products) is used for electricity generation, accounting for 67.5% of the total supply in 2002.



#### 2.3.2 Oil

Oil supply increased by 0.6% from 1,837 Mtoe in 2001 to 1,847 Mtoe in 2002. Oil represented 39.1% of total primary energy supply in 2002.

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 4.3%, from 865 Mtoe in 2001 to 902 Mtoe in 2002. Natural gas represented 19.1% of total primary energy supply in 2002.

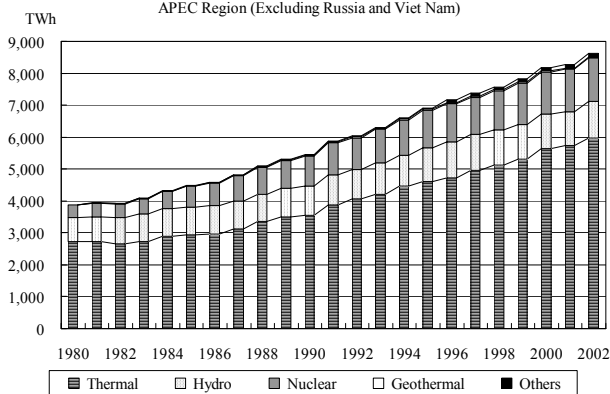
Most gas is consumed in the industrial and residential/commercial sectors. As of 2002, over 30% of gas was used for electric power generation.

#### 2.3.4 Electricity

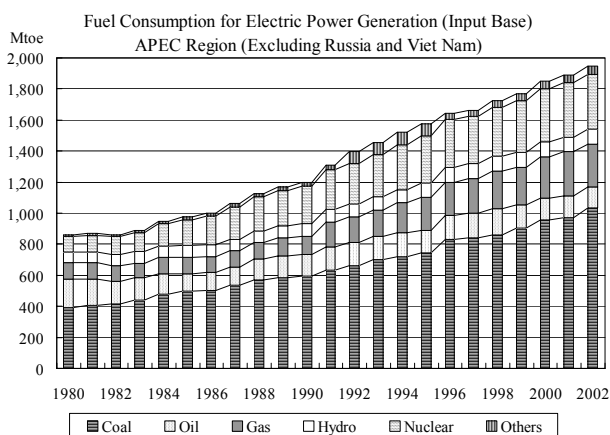
The supply of hydro, nuclear, etc. increased by 2.6%, from 479 Mtoe in 2001 to 491 Mtoe in 2002. From 1980 until 2002, the supply of hydro, nuclear, etc. grew 4.8% per annum.

Power generation rose by 4.3% from 8,270 TWh in 2001 to 8,625 TWh in 2002. From 1980 until 2002, power generation grew 3.7% per annum (from 3,885 TWh). Thermal power generation grew 4.5%, from 5,724 TWh in 2001 to 5,979 TWh in 2002. As a result, the share of thermal power generation was 69.3% of the total in 2002. Nuclear power generation grew by 1.8% from 1,341 TWh in 2001 to 1,364 TWh in 2002. The hydropower generation rose by 7.0% from 1,056 TWh in 2001 to 1,129 TWh in 2002.

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.



## 2.4 Analysis of Energy Supply and Demand by Region

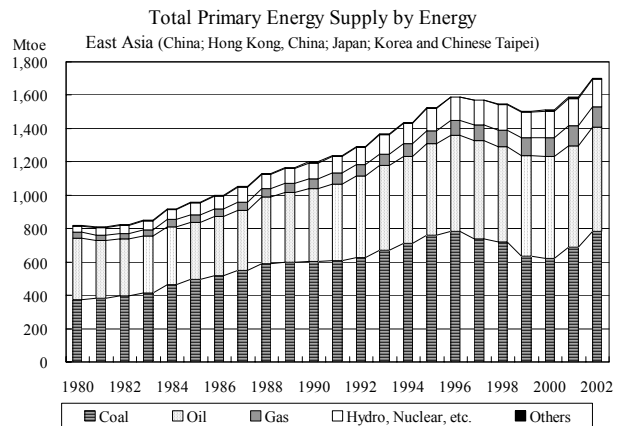
This section divides the APEC region into five groups, namely East Asia, Southeast Asia, Oceania, North America and Latin America, to compare their energy supply and demand situations.

### 2.4.1 East Asia

Primary energy supply in East Asia rose by 7.3% to 1,703 Mtoe in 2002. Over the period 1980 to 2002, primary energy supply increased 3.4% per annum (from 821 Mtoe).

Coal and oil constitute the main energy sources in

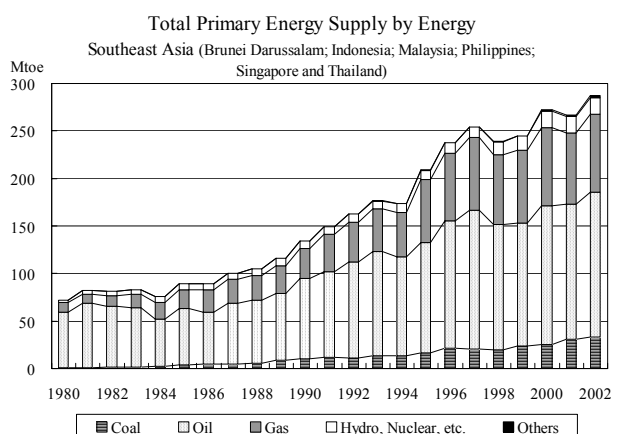
East Asia, accounting for 45.9% and 36.8% of total energy supply, respectively, in 2002.



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. 49.0% of final energy was consumed in the industrial sector, although this share has been decreasing yearly.

### 2.4.2 Southeast Asia

Primary energy supply in Southeast Asia rose by 7.6% to 287 Mtoe in 2002 and from 1980 to 2002 it increased 6.5% per annum; the highest rate of growth of the five regional groups, and the share of the total APEC region was 6.1% comparing with 2.4% in 1980.



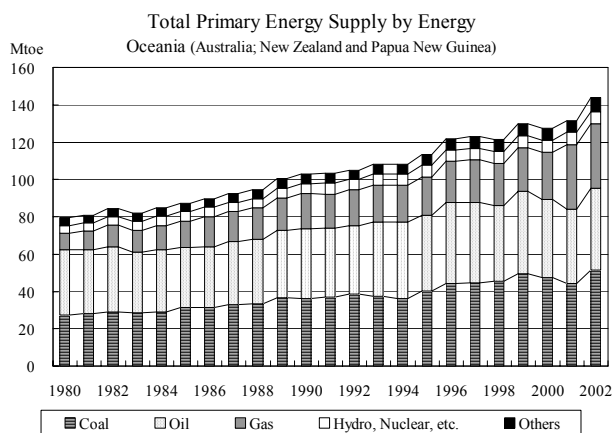
Although Southeast Asia relies heavily on oil, use of coal and gas has been increasing in recent years. Therefore the share of oil has dropped to 53.0% from 81.1% in 1980.

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 9.7% to 144 Mtoe in 2002. From 1980 to 2002, the average growth rate per annum was 2.7% (from 79 Mtoe). The Oceania share of total APEC supply was only 3.0% in 2002.

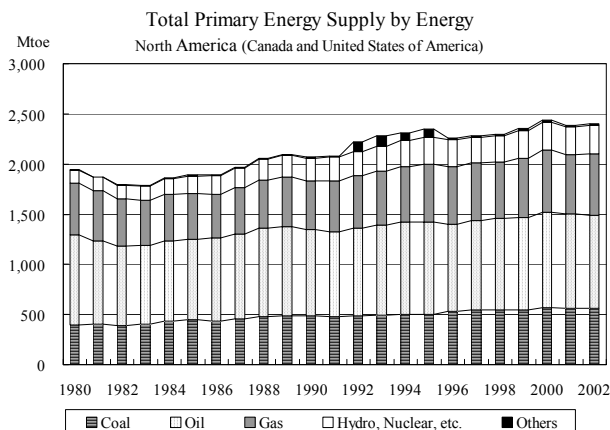


Coal and oil are the major energy sources in Oceania, accounting for 66.0% of total primary energy supply. Oil supply grew 8.8% though gas supply grew 0.4% in 2002.

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

### 2.4.4 North America

Primary energy supply in North America increased by 0.7% to 2,404 Mtoe in 2002, or 1.0% per annum from 1,943 Mtoe in 1980. The area accounted for the greatest share of energy supply in the APEC region (e.g. 50.9% in 2002). Discontinuity between 1992 and 1995 is due to data availability of autoproducers of electricity in the United States of America.

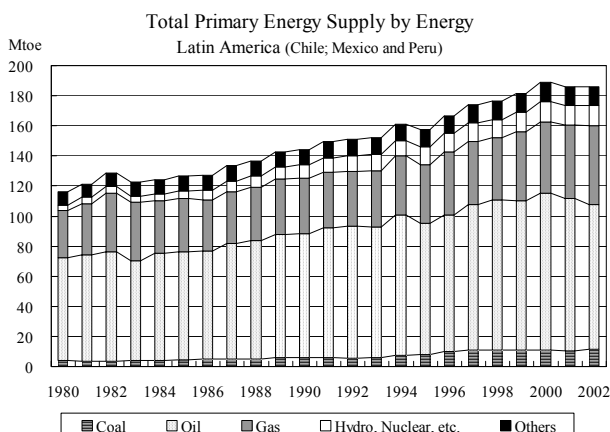


The main energy source in North America is oil, although supply has remained more or less stable over the past 22 years. Supply of coal and gas has increased modestly over the same period.

In terms of final energy consumption by sector, energy consumption by the industrial and transportation sectors is comparable, 32.6% and 38.9% of the total, respectively. The residential/commercial sector consumed 28.3% of the total.

### 2.4.5 Latin America

Primary energy supply in Latin America fell by 0.2% to 186 Mtoe in 2002, 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 51.8% of the total, followed by gas with a share of 28.2% in 2002.

In terms of final energy consumption by sector, the transportation and industrial sectors consumed 38.5%

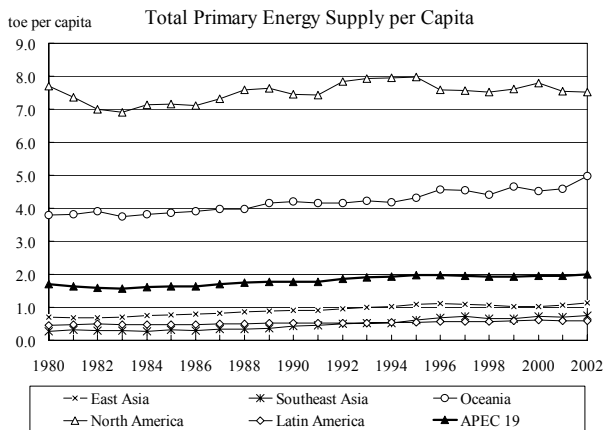
and 30.2% of the total, respectively, in 2002.

### 2.5 Other Analyses

This section analyses per capita primary energy consumption, the elasticity of primary energy supply against real GDP and CO<sub>2</sub> Emissions in the region.

#### 2.5.1 Primary Energy Supply Per Capita

North America had the highest primary energy supply (7.52 toe per capita) in the APEC region in 2002, followed in order by Oceania (4.97 toe), East Asia (1.15 toe), Southeast Asia (0.75 toe) and Latin America (0.58 toe). The average for APEC excluding Russia and Viet Nam came to 2.00 toe per capita in 2002.

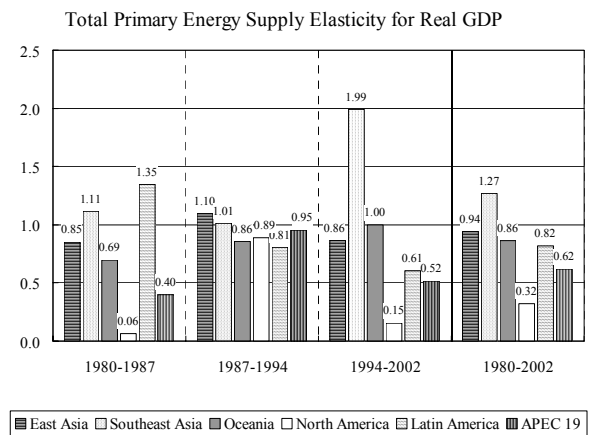


From 1980 until 2002, the APEC average growth rate in energy per capita was 0.8% per annum (from 1.70 toe per capita). While in Southeast Asia, the growth rate was 4.6% per annum for the last 22 years. North America showed almost no growth (-0.1%) over this period. Although East Asia experienced strong 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

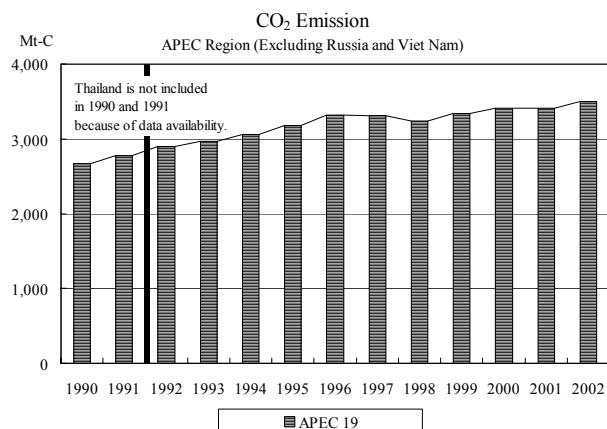
From 1980 until 2002, the elasticity of supply has exceeded 1 in Southeast Asia (1.27) over the last 22 years. The converse is true for East Asia (0.94), Oceania (0.86), North America (0.32, the lowest) and Latin America (0.82). Elasticity for the APEC region as a whole was

0.62. This means that when the GDP of the APEC region increased by one unit, energy supply increased 0.62 units.



#### 2.5.3 CO<sub>2</sub> Emissions from Fuel Combustion

The data of CO<sub>2</sub> emission data for 2002 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 CO<sub>2</sub> emissions data. Based on both of the data above mentioned, CO<sub>2</sub> emissions from fuel combustion grew by 2.9% from 3,405 Mt-C in 2001 to 3,502 Mt-C in 2002, or 1.9% per annum from 2,898 Mt-C in 1992. As a result, CO<sub>2</sub> emissions per total primary energy supply, per real GDP and per population became 0.74 t-C/toe, 176.0 t-C/US Million-dollar (at 1995 price) and 1.49 t-C/capita in 2002 respectively.





## 3 Member Tables

### 3.1 Australia



## Energy Balance Table of Australia in 2001

	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
<b>1 Indigenous Production</b>	162,195	-	30,870	2,410	-	-	-	-	-
<b>2 Import</b>	-	-	21,976	3,670	877	-	276	-	939
<b>3 Export</b>	-118,937	-11	-18,245	-7,222	-950	-	-2,223	-8	-1,062
<b>4 International Marine Bunkers</b>	-	-	-	-737	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	43,258	-11	34,601	-1,880	-73	-	-1,947	-8	-122
<b>7 Public Electricity</b>	-38,580	-60	-	-208	-	-	-	-	-126
<b>8 Autoproducers of Electricity</b>	-349	-12	-	-322	-	-	-	-	-256
<b>9 Gas Processing</b>	-	-	-	-23	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-36,141	37,116	13,270	160	5,221	117	11,642
<b>11 Coal Transformation</b>	-2,996	2,689	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-1,939	-	-	-	-	-
<b>13 Discrepancy</b>	1,100	278	1,550	3,093	195	-134	1,132	-31	-356
<b>14 Total Final Energy Consumption</b>	2,433	2,885	11	35,837	13,392	27	4,406	78	10,783
<b>15 Industry Sector</b>	2,300	2,846	11	5,678	-	27	-	7	2,576
<b>16 Transport Sector</b>	105	-	-	26,918	13,392	-	4,405	-	6,821
<b>17 Other Sector</b>	28	39	-	1,955	-	-	0	71	1,385
<b>18 Agriculture</b>	-	-	-	1,316	-	-	-	0	1,294
<b>19 Residential &amp; Commercial</b>	28	39	-	639	-	-	0	70	91
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	1,285	-	-	-	-	-

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

Energy Balance Table of Australia in 2001 (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
-	2,410	-	-	37,041	-	1,443	-	105	4,829	-	-	238,892
714	362	-	502	-	-	-	-	-	-	-	-	25,646
-936	-1,591	-	-453	-7,924	-	-	-	-	-	-	-	-152,338
-737	-	-	-	-	-	-	-	-	-	-	-	-737
-	-	-	-	-	-	-	-	-	-	-	-	-
-959	1,181	-	49	29,117	-	1,443	-	105	4,829	-	-	111,463
-83	-	-	-	-2,479	-	-1,443	-	-	-2,464	17,081	-	-28,153
-13	0	-53	-	-1,885	-	-	-	-	-122	1,004	-	-1,686
-	-23	-	-	-13	20	-	-	-	-	-	-	-15
1,480	955	2,092	2,179	-337	-	-	-	-	-	-143	-	496
-	-	-	-	-	-	-	-	-	-	-	-	-307
-	-	-1,939	-	-459	-1	-	-	-	-	-2,458	-	-4,856
1,172	484	-11	643	-10,037	40	-	-	0	2,689	502	-	-785
1,597	2,596	88	2,871	13,907	59	-	-	105	4,932	15,985	-	76,155
781	614	88	1,586	10,271	44	-	-	-	3,017	7,524	-	31,690
806	1,493	-	-	298	-	-	-	-	-	209	-	27,530
10	489	-	-	3,339	15	-	-	105	1,916	8,253	-	15,650
-	22	-	-	0	-	-	-	-	-	251	-	1,567
10	467	-	-	3,338	15	-	-	105	1,916	8,003	-	14,083
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	1,285	-	-	-	-	-	-	-	-	1,285

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	-	-	38,392	-	1,385	-	127	6,267	-	-	258,208
511	329	-	953	-	-	-	-	-	-	-	-	27,515
-267	-1,951	-	-320	-8,887	-	-	-	-	-	-	-	-158,557
-776	-	-	-	-	-	-	-	-	-	-	-	-776
64	57	-	161	-	-	-	-	-	-	-	-	-3,219
-468	1,203	-	793	29,505	-	1,385	-	127	6,267	-	-	123,172
-115	-	-	-	-5,245	-	-1,360	-	-31	-2,603	18,314	-	-36,611
-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	-7,065	10	0	-	9	3,798	-164	-	3,396
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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	69,279	70,384	72,282	74,566	76,299	78,988	81,111	86,111	87,938
Indigenous Production	86,084	102,994	111,094	125,763	136,076	145,576	138,579	145,439	158,191
Import	13,902	12,653	9,719	8,843	7,828	10,240	11,239	14,061	14,183
Export	-32,208	-40,064	-48,568	-62,794	-66,297	-70,176	-75,801	-72,746	-79,487
Final Energy Consumption	51,533	49,307	51,240	53,480	54,698	55,978	58,085	60,499	63,237
Industry	23,239	20,170	21,125	22,506	22,941	23,438	24,525	25,711	27,574
Transport	17,547	18,092	18,813	19,465	19,950	20,315	21,208	22,011	22,160
Residential & Commercial	8,494	8,886	8,959	9,198	9,494	9,864	9,994	10,294	10,977
Agriculture	1,075	1,134	1,267	1,245	1,228	1,284	1,259	1,327	1,317
<b>Coal, Coal Products</b>									
Primary Energy Supply	26,403	27,185	27,879	30,318	30,126	31,748	32,414	35,312	35,148
Indigenous Production	51,868	67,797	71,318	81,066	89,563	98,932	91,565	100,432	106,298
Import	-	-	-	-	-	-	-	-	-
Export	-28,645	-36,522	-43,463	-54,442	-58,222	-61,808	-66,576	-64,929	-67,658
Transformation Sector	-19,165	-21,208	-21,968	-24,037	-23,615	-25,650	-27,045	-28,803	-28,812
Power Generation	-19,184	-21,156	-21,812	-23,761	-23,624	-25,419	-27,017	-28,581	-28,904
Final Energy Consumption	7,328	5,568	5,575	5,917	5,944	5,859	5,869	5,976	6,711
Industry	7,107	5,379	5,325	5,665	5,702	5,619	5,642	5,740	6,490
Transport	4	18	81	88	75	86	79	88	79
Residential & Commercial	217	170	168	163	158	154	148	147	141
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	29,632	28,681	29,234	27,150	27,932	28,297	29,297	30,349	30,926
Indigenous Production	19,906	18,529	22,522	25,990	26,641	26,448	26,250	23,721	26,861
Import	9,891	10,345	7,511	6,405	5,432	6,782	8,409	10,587	10,189
Export	-107	-51	-887	-4,885	-4,241	-4,788	-5,418	-4,127	-5,827
Transformation Sector	-29,788	-28,035	-28,611	-28,759	-28,300	-27,987	-29,986	-30,533	-31,455
Petroleum Refineries	-29,788	-28,035	-28,611	-28,759	-28,300	-27,987	-29,986	-30,533	-31,455
<b>Petroleum Products</b>									
Primary Energy Supply	805	-401	-201	714	783	1,109	996	1,425	1,458
Import	4,012	2,309	2,208	2,438	2,396	3,458	2,830	3,474	3,994
Export	-3,456	-3,491	-4,218	-3,467	-3,834	-3,580	-3,807	-3,689	-3,652
Transformation Sector	27,171	25,541	26,143	26,539	26,182	25,986	28,143	28,451	29,166
Power Generation	-1,132	-1,063	-1,036	-916	-797	-601	-482	-646	-880
Petroleum Refineries	30,525	28,453	29,112	29,327	28,829	28,517	30,583	31,124	32,011
Final Energy Consumption	27,930	25,287	26,445	26,717	27,014	27,347	28,631	29,769	30,198
Industry	7,003	4,509	4,906	4,603	4,465	4,412	4,845	5,086	5,332
Transport	17,466	17,984	18,635	19,273	19,763	20,112	20,997	21,774	21,925
Residential & Commercial	1,327	792	712	691	648	638	616	615	632
Agriculture	956	986	1,125	1,093	1,071	1,119	1,083	1,151	1,114
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	7,794	10,021	10,533	11,249	12,268	12,648	13,123	13,495	14,788
Indigenous Production	7,794	10,021	10,533	11,249	12,268	12,648	13,123	13,495	17,139
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-2,350
Transformation Sector	-1,947	-3,088	-3,238	-2,963	-3,607	-3,462	-3,760	-3,821	-4,260
Power Generation	-1,642	-2,531	-2,672	-2,391	-2,894	-2,779	-3,010	-3,092	-3,471
Final Energy Consumption	5,851	6,933	7,294	8,286	8,660	9,185	9,361	9,672	10,529
Industry	4,366	5,055	5,314	6,198	6,470	6,832	7,056	7,277	7,833
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	1,485	1,870	1,971	2,079	2,181	2,343	2,294	2,385	2,685
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	8,261	9,140	9,658	10,403	10,871	11,388	11,948	12,696	13,282
Thermal	7,076	8,029	8,552	9,115	9,539	10,137	10,661	11,404	12,002
Hydro	1,185	1,111	1,106	1,287	1,333	1,252	1,287	1,292	1,280
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	6,966	7,731	8,194	8,713	9,224	9,654	10,232	10,842	11,443
Industry	2,948	3,149	3,566	3,928	4,195	4,407	4,761	5,175	5,421
Transport	77	90	97	103	112	117	131	149	156
Residential & Commercial	3,821	4,344	4,389	4,531	4,760	4,964	5,165	5,341	5,662
Agriculture	119	148	142	152	157	165	176	177	204

## Major Energy Indicators of Australia (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
87,841	89,135	91,706	92,039	96,871	104,401	104,763	103,027	110,701	107,748	111,463	123,172	
163,650	170,684	174,067	174,475	188,389	192,177	201,813	212,493	211,562	228,189	238,892	258,208	
14,183	15,258	19,521	20,430	21,048	23,744	25,235	22,601	24,753	27,488	25,646	27,515	
-88,490	-97,152	-101,883	-105,991	-109,521	-112,297	-119,599	-130,395	-130,420	-147,062	-152,338	-158,557	
63,346	63,954	65,866	67,921	70,911	72,586	74,462	75,806	76,549	79,470	76,155	77,454	
27,679	27,660	28,443	29,407	30,793	30,974	31,758	32,461	32,643	33,465	31,690	31,124	
21,954	22,412	23,129	23,742	24,763	25,794	26,282	26,759	27,163	28,733	27,530	26,585	
11,242	11,456	11,710	12,010	12,478	12,941	13,279	13,650	13,820	14,186	14,083	14,334	
1,335	1,333	1,402	1,448	1,471	1,477	1,531	1,564	1,602	1,629	1,567	1,861	
35,915	37,565	36,244	35,300	38,920	43,140	43,704	44,088	48,335	46,173	43,247	50,205	
110,731	116,728	119,006	119,249	128,619	131,661	139,944	151,274	153,460	159,928	162,195	178,868	
-	-	-	-	-	-	-	-	-	0	-	-	
-73,530	-79,951	-83,457	-87,170	-88,147	-89,853	-94,700	-106,666	-110,311	-113,756	-118,947	-124,781	
-29,970	-30,906	-31,047	-31,886	-29,804	-35,721	-35,854	-38,067	-39,089	-39,887	-39,307	-46,573	
-29,937	-30,778	-30,916	-31,873	-29,962	-35,964	-35,813	-38,317	-39,330	-40,030	-39,000	-45,391	
6,554	6,637	6,279	6,407	6,647	6,499	6,579	6,371	6,312	6,043	5,318	5,110	
6,339	6,432	6,088	6,187	6,468	6,330	6,408	6,220	6,172	5,873	5,146	4,982	
85	91	94	85	91	90	98	96	94	101	105	64	
130	114	98	99	89	78	73	55	46	70	67	64	
-	-	-	-	-	-	-	-	-	-	-	-	
31,371	32,226	34,444	34,215	34,379	36,865	37,292	34,916	36,935	38,476	34,601	33,918	
26,827	26,285	25,776	24,299	26,167	25,402	26,065	27,126	23,983	31,499	30,870	30,401	
11,757	13,463	17,054	17,822	18,123	20,814	21,749	19,982	21,652	23,652	21,976	23,289	
-7,536	-7,532	-8,477	-8,007	-9,609	-9,151	-10,411	-11,809	-8,999	-16,676	-18,245	-20,158	
-32,252	-32,881	-33,918	-34,213	-34,795	-38,142	-37,601	-37,928	-38,025	-35,544	-36,141	-39,411	
-32,252	-32,881	-33,918	-34,213	-34,795	-38,142	-37,601	-37,928	-38,025	-35,544	-36,141	-38,846	
572	-720	-48	876	396	341	-1,129	-1,132	331	-3,406	-1,880	1,765	
2,426	1,795	2,466	2,608	2,924	2,930	3,486	2,619	3,102	3,835	3,670	4,226	
-3,448	-4,220	-4,002	-3,760	-3,508	-4,429	-5,858	-3,470	-2,632	-7,369	-7,222	-4,730	
29,872	30,758	31,958	33,632	33,918	34,616	35,759	35,187	35,431	36,351	34,623	34,142	
-900	-666	-622	-645	-727	-725	-560	-569	-477	-570	-531	-622	
32,834	33,519	34,734	36,395	36,951	37,550	38,389	37,927	38,024	39,001	37,116	36,566	
29,830	30,201	31,411	32,650	33,697	34,626	35,212	35,234	35,730	37,709	35,837	35,743	
5,247	5,200	5,645	6,036	5,987	5,890	5,837	5,644	5,815	6,064	5,678	6,453	
21,712	22,134	22,843	23,449	24,470	25,493	25,959	26,243	26,608	28,123	26,918	26,040	
631	659	566	676	657	651	658	648	628	685	639	779	
1,121	1,115	1,175	1,215	1,247	1,250	1,301	1,327	1,358	1,381	1,316	1,716	
14,096	14,564	15,187	15,533	16,863	17,484	17,892	18,407	18,392	19,872	29,117	29,505	
18,072	20,013	21,133	22,587	25,120	26,348	26,522	26,857	26,871	29,134	37,041	38,392	
-	-	-	-	-	-	-	-	-	-	-	-	
-3,976	-5,449	-5,946	-7,054	-8,257	-8,864	-8,630	-8,449	-8,479	-9,262	-7,924	-8,887	
-3,419	-3,586	-3,750	-4,041	-4,368	-4,098	-4,094	-4,612	-5,022	-5,305	-5,153	-7,362	
-2,611	-2,831	-2,931	-3,181	-3,597	-3,298	-3,256	-3,543	-4,100	-4,445	-4,364	-6,427	
10,795	11,094	11,587	11,904	12,754	13,042	13,472	14,136	14,067	14,835	13,966	15,088	
8,050	8,250	8,569	8,843	9,503	9,604	9,991	10,333	10,242	10,885	10,315	8,744	
-	26	30	36	32	33	42	232	265	306	298	294	
2,729	2,818	2,988	3,024	3,220	3,395	3,438	3,570	3,560	3,643	3,353	3,254	
-	-	-	-	-	-	-	0	0	0	0	2	
13,478	13,769	14,069	14,372	14,908	15,262	15,791	16,844	17,464	17,426	18,085	19,104	
12,093	12,456	12,612	12,926	13,513	13,883	14,313	15,460	16,020	16,000	16,642	17,719	
1,385	1,314	1,457	1,445	1,396	1,379	1,478	1,384	1,444	1,426	1,443	1,385	
-	-	-	-	-	-	-	-	-	-	-	-	
11,664	11,833	12,163	12,463	12,858	13,214	13,662	14,488	14,951	15,536	15,985	16,339	
5,454	5,555	5,717	5,866	6,000	6,054	6,218	6,746	6,972	7,330	7,524	7,445	
157	162	162	171	171	177	183	188	195	203	209	187	
5,839	5,897	6,057	6,192	6,464	6,756	7,030	7,318	7,541	7,755	8,003	8,564	
215	219	227	233	223	227	231	237	243	247	251	142	

## Major Economic Indicators of Australia

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	14.69	15.37	15.54	15.76	16.02	16.26	16.53	16.81
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	235.38	250.00	261.99	272.81	279.77	294.77	306.63	318.07
Real Term (Billions of 1995 Price and 1995 PPP)	243.36	258.47	270.87	282.05	289.25	304.76	317.02	328.85
Nominal (Billions of Current USD)	165.83	183.20	197.46	173.29	182.01	217.50	274.92	304.42
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	16,021	16,267	16,855	17,312	17,466	18,124	18,548	18,917
Real Term (1995 Price and 1995 PPP)	16,564	16,818	17,426	17,899	18,058	18,738	19,176	19,558
Nominal (Current USD)	11,287	11,920	12,703	10,997	11,363	13,373	16,630	18,105
Nominal GDP & its Components (Billions of Current AUD) *1								
Gross Domestic Product	145.64	203.35	225.00	248.13	272.29	310.63	351.87	384.97
Household Final Consumption Expenditure, etc.	84.10	118.84	128.75	144.50	158.64	177.45	197.43	218.73
General Government Final Consumption Expenditure	27.12	39.27	44.79	49.76	54.29	58.28	63.18	68.60
Gross Fixed Capital Formation	39.18	49.78	56.90	65.14	70.60	80.44	94.56	99.88
Stock Change	0.45	1.27	2.29	0.87	-1.72	0.49	3.56	5.09
Exports of Goods and Services	22.60	28.89	35.74	38.95	44.31	51.74	55.35	60.90
Imports of Goods and Services	25.53	32.16	40.79	47.20	49.03	54.08	62.30	68.77
Real GDP & its Components (Billions of 1995 AUD) *1								
Gross Domestic Product	317.53	337.25	353.43	368.02	377.41	397.65	413.65	429.08
Household Final Consumption Expenditure, etc.	195.34	212.01	216.47	225.69	228.08	235.58	246.35	258.35
General Government Final Consumption Expenditure	59.83	65.39	70.29	71.52	73.81	76.17	77.92	79.76
Gross Fixed Capital Formation	73.73	73.93	80.94	84.98	84.72	91.05	100.48	101.32
Stock Change	2.43	6.31	6.74	3.18	-6.20	3.01	13.65	18.34
Exports of Goods and Services	35.25	39.08	45.10	46.80	51.77	56.44	57.34	60.17
Imports of Goods and Services	43.02	46.68	54.35	54.21	51.65	57.38	71.31	75.24
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.5	4.3	4.1	3.8	3.8	3.5	3.4	3.6
Industry	28.5	26.3	26.9	26.7	26.1	26.8	27.5	27.1
Services, etc.	59.1	60.6	59.9	60.6	61.8	61.3	60.5	60.8
Industrial Production Index (2000=100) *2	61.3	60.3	64.4	68.0	66.8	71.1	76.3	78.5
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	21.944	20.113	23.111	22.604	22.569	26.621	33.233	37.125
Imports, c.i.f.	22.399	21.458	25.919	25.889	26.104	29.318	36.095	44.933
Balance of Payments (Billions of Current USD) *2								
Trade Balance	1.371	0.026	-0.742	-0.968	-1.820	0.492	-0.677	-3.350
Current Account	-4.447	-6.330	-8.860	-9.172	-9.807	-7.966	-11.749	-17.866
Overall Balance	0.448	3.030	-1.294	-2.301	0.703	0.374	5.279	0.601
Foreign Exchange Rate (AUD/USD) *1	0.8782	1.1100	1.1395	1.4319	1.4960	1.4282	1.2799	1.2646
Purchasing Power Parity (AUD/International Dollar) *1	1.0561	1.1453	1.1569	1.1870	1.2456	1.3035	1.3654	1.3813
Price Indices								
GDP Deflator (1995=100) *3	45.9	60.3	63.7	67.4	72.1	78.1	85.1	89.7
Manufacturing Output Price Index (2000=100) *2	44.3	56.6	59.7	63.6	67.2	72.1	78.6	82.6
Consumer Price Index (2000=100) *2	36.8	49.5	51.4	54.9	59.9	65.0	69.6	74.9
Growth Rate (%) *3								
Real GDP	3.03	5.34	4.80	4.13	2.55	5.36	4.02	3.73
Population	1.23	1.26	1.14	1.38	1.65	1.54	1.65	1.71
Price								
Manufacturing Output Price Index	14.0	8.1	5.4	6.6	5.6	7.3	9.0	5.1
Consumer Price Index	10.1	10.1	3.9	6.7	9.1	8.5	7.2	7.6

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"  
: AUD shows Australian Dollar, USD shows United States Dollar  
: PPP shows Purchasing Power Parity

## Major Economic Indicators of Australia (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
17.07	17.28	17.49	17.66	17.85	18.06	18.31	18.53	18.75	18.97	19.18	19.41	19.66
317.77	318.61	330.28	343.14	357.66	372.74	386.86	404.08	425.55	442.56	450.32	468.05	480.86
328.53	329.41	341.47	354.76	369.77	385.37	399.97	417.77	439.97	457.55	465.57	483.91	497.15
310.58	316.72	313.04	303.97	344.60	372.74	414.66	416.53	371.86	405.56	388.05	368.77	408.98
18,621	18,434	18,882	19,428	20,040	20,636	21,126	21,805	22,695	23,333	23,476	24,109	24,455
19,252	19,058	19,521	20,086	20,719	21,335	21,842	22,543	23,464	24,123	24,271	24,926	25,283
18,200	18,324	17,896	17,210	19,309	20,636	22,644	22,476	19,831	21,382	20,230	18,995	20,799
397.88	406.60	426.23	447.02	471.35	502.83	529.89	561.23	591.92	628.62	669.31	712.98	752.76
233.73	245.46	255.55	265.90	282.87	301.07	314.57	335.10	354.42	374.92	403.88	428.26	455.88
74.66	79.55	83.04	84.44	87.74	92.96	96.17	101.33	108.27	114.51	120.99	127.77	135.99
90.27	85.14	91.44	98.46	109.35	111.60	117.59	129.47	139.00	150.99	143.59	158.41	180.04
-1.37	-2.20	0.41	1.29	1.39	-0.81	-0.01	0.06	4.66	2.48	-0.02	0.62	1.69
66.26	70.08	76.90	83.02	87.65	99.10	105.16	113.74	112.03	126.03	153.51	152.36	147.36
66.95	69.27	79.08	85.40	97.65	101.08	103.59	118.48	126.45	140.32	152.64	153.96	167.00
428.67	429.81	445.55	462.89	482.48	502.83	521.88	545.11	574.07	597.01	607.48	631.40	648.68
260.05	265.30	270.22	276.49	290.05	301.07	309.80	324.65	340.30	354.31	364.80	378.70	393.66
82.58	84.31	85.84	86.51	89.34	92.96	94.30	97.86	101.82	106.47	108.79	112.41	116.41
91.32	86.81	92.36	98.28	109.23	111.60	120.28	131.71	140.76	153.06	141.30	154.82	174.10
-3.26	-7.46	2.67	3.46	9.32	-0.81	-2.42	-0.11	15.95	7.92	-0.07	0.45	3.92
67.19	73.25	78.14	85.72	89.90	99.10	109.48	113.53	115.84	126.67	135.86	133.29	132.39
70.93	73.52	78.15	83.38	97.16	101.08	111.11	121.92	127.80	143.75	141.92	145.24	165.29
3.8	3.5	3.6	3.6	2.9	3.4	3.5	3.4	3.5	3.6	3.6	3.5	N.A.
26.7	26.0	25.8	25.9	25.7	25.4	25.0	25.1	24.5	24.3	23.7	23.6	N.A.
61.1	62.2	62.4	62.3	62.8	62.6	63.1	62.9	63.3	63.4	64.4	64.6	N.A.
80.0	78.8	79.2	81.6	85.8	87.1	90.5	92.1	94.6	95.1	100.0	101.4	104.3
39.752	41.854	42.824	42.723	47.528	53.111	60.301	62.910	55.893	56.080	63.870	63.387	65.034
41.985	41.648	43.807	45.577	53.425	61.283	65.427	65.892	64.630	69.158	71.529	63.888	72.689
0.358	3.528	1.643	-0.029	-3.277	-4.223	-0.635	1.849	-5.332	-9.761	-4.813	1.786	-5.431
-15.950	-10.986	-11.124	-9.684	-17.146	-19.323	-15.810	-12.384	-18.014	-22.295	-15.481	-8.712	-17.365
1.740	-0.324	-4.726	-0.042	-0.960	0.396	2.471	2.873	-2.040	6.705	-1.365	1.096	0.122
1.2811	1.2838	1.3616	1.4706	1.3678	1.3490	1.2779	1.3474	1.5918	1.5500	1.7248	1.9334	1.8406
1.3650	1.3508	1.3412	1.3259	1.3030	1.3048	1.3032	1.3013	1.2887	1.3002	1.3330	1.3334	1.3546
92.8	94.6	95.7	96.6	97.7	100.0	101.5	103.0	103.1	105.3	110.2	112.9	116.0
87.6	88.8	90.2	92.0	92.7	96.6	96.9	98.1	94.2	93.3	100.0	103.1	103.3
80.4	82.9	83.8	85.3	86.9	90.9	93.3	93.5	94.3	95.7	100.0	104.4	107.5
-0.10	0.27	3.66	3.89	4.23	4.22	3.79	4.45	5.31	4.00	1.75	3.94	2.74
1.49	1.28	1.20	0.97	1.05	1.21	1.38	1.20	1.18	1.15	1.13	1.21	1.28
6.0	1.5	1.5	2.0	0.8	4.2	0.3	1.2	-4.0	-0.9	7.1	3.1	0.2
7.3	3.2	1.0	1.8	1.9	4.6	2.6	0.3	0.8	1.5	4.5	4.4	3.0

## Original Table (Energy Demand and Supply) of Australia in 2002

Year:2002

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	341,816.70	kt	0.0219	PJ/kt	7,488.85	PJ
HARD COAL	273,245.27	kt	0.0251	PJ/kt	6,850.45	PJ
STEAM COAL	130,507.81	kt	0.0243	PJ/kt	3,173.95	PJ
COKING COAL	108,596.49	kt	0.0271	PJ/kt	2,940.25	PJ
SUBBITUMINOUS COAL	34,140.97	kt	0.0216	PJ/kt	736.25	PJ
LIGNITE	68,571.43	kt	0.0093	PJ/kt	638.40	PJ
CRUDE OIL AND NGL/CONDENSATE	28,937.37	kt	0.0440	PJ/kt	1,272.81	PJ
CRUDE OIL	23,205.18	kt	0.0440	PJ/kt	1,020.68	PJ
NGL/CONDENSATE	5,732.18	kt	0.0440	PJ/kt	252.13	PJ
LPG	2,469.64	kt	0.0469	PJ/kt	115.90	PJ
NATURAL GAS AND LNG	44,492.41	mcm	0.0361	PJ/mcm	1,607.40	PJ
NATURAL GAS	34,325.00	mcm	0.0360	PJ/mcm	1,235.70	PJ
LNG	10,167.41	mcm	0.0366	PJ/mcm	371.70	PJ
HYDRO POWER	16,108.33	GWh	0.0036	PJ/GWh	57.99	PJ
WIND	366.67	GWh	0.0036	PJ/GWh	1.32	PJ
PHOTOVOLTAIC POWER		GWh	0.0036	PJ/GWh		PJ
SOLAR HEAT	4,000.00	TJ	0.0010	PJ/TJ	4.00	PJ
OTHERS	262,400.00	TJ	0.0010	PJ/TJ	262.40	PJ
TOTAL PRODUCTION					10,810.67	PJ
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						PJ
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						PJ
<b>STOCK CHANGE</b>						
COAL	-6,801.00	kt	0.0231	PJ/kt	-156.85	PJ
HARD COAL	-6,801.00	kt	0.0231	PJ/kt	-156.85	PJ
STEAM COAL	-3,925.78	kt	0.0243	PJ/kt	-95.48	PJ
COKING COAL	66.67	kt	0.0271	PJ/kt	1.81	PJ
SUBBITUMINOUS COAL	-2,929.52	kt	0.0216	PJ/kt	-63.18	PJ
COKE	-268.89	kt	0.0257	PJ/kt	-6.90	PJ
BRIQUETTES	64.00	kt	0.0190	PJ/kt	1.22	PJ
CRUDE OIL AND NGL/CONDENSATE	367.17	kt	0.0440	PJ/kt	16.15	PJ
CRUDE OIL	291.58	kt	0.0440	PJ/kt	12.83	PJ
NGL/CONDENSATE	75.59	kt	0.0440	PJ/kt	3.33	PJ
LPG	50.61	kt	0.0469	PJ/kt	2.38	PJ
NAPHTHA	-5.61	kt	0.0457	PJ/kt	-0.26	PJ
MOGAS	16.16	kt	0.0441	PJ/kt	0.71	PJ
JET FUEL	-25.86	kt	0.0441	PJ/kt	-1.14	PJ
KEROSENE	2.82	kt	0.0438	PJ/kt	0.12	PJ
DIESEL OIL	8.77	kt	0.0433	PJ/kt	0.38	PJ
FUEL OIL	65.97	kt	0.0408	PJ/kt	2.69	PJ
OTHER PETROLEUM PRODUCTS	160.91	kt	0.0418	PJ/kt	6.73	PJ
TOTAL STOCK CHANGE					-134.77	PJ
<b>IMPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	22,168.47	kt	0.0440	PJ/kt	975.08	PJ
CRUDE OIL	19,792.66	kt	0.0440	PJ/kt	870.58	PJ
NGL/CONDENSATE	2,375.81	kt	0.0440	PJ/kt	104.50	PJ
LPG	293.52	kt	0.0469	PJ/kt	13.78	PJ
MOGAS	1,064.66	kt	0.0441	PJ/kt	46.93	PJ
JET FUEL	174.35	kt	0.0441	PJ/kt	7.69	PJ
KEROSENE	7.59	kt	0.0438	PJ/kt	0.33	PJ
DIESEL OIL	1,083.33	kt	0.0433	PJ/kt	46.93	PJ
FUEL OIL	524.48	kt	0.0408	PJ/kt	21.38	PJ
OTHER PETROLEUM PRODUCTS	954.77	kt	0.0418	PJ/kt	39.91	PJ
TOTAL IMPORTS					1,152.02	PJ
<b>EXPORTS</b>						
COAL	202,866.50	kt	0.0257	PJ/kt	5,221.20	PJ
HARD COAL	202,866.50	kt	0.0257	PJ/kt	5,221.20	PJ
STEAM COAL	98,515.63	kt	0.0243	PJ/kt	2,395.90	PJ
COKING COAL	104,350.88	kt	0.0271	PJ/kt	2,825.30	PJ
COKE	129.04	kt	0.0244	PJ/kt	3.14	PJ
CRUDE OIL AND NGL/CONDENSATE	19,187.90	kt	0.0440	PJ/kt	843.98	PJ
CRUDE OIL	17,956.80	kt	0.0440	PJ/kt	789.83	PJ
NGL/CONDENSATE	1,231.10	kt	0.0440	PJ/kt	54.15	PJ
LPG	1,740.89	kt	0.0469	PJ/kt	81.70	PJ
MOGAS	851.29	kt	0.0441	PJ/kt	37.53	PJ
JET FUEL	431.03	kt	0.0441	PJ/kt	19.00	PJ
KEROSENE	2.00	kt	0.0438	PJ/kt	0.09	PJ
DIESEL OIL	811.40	kt	0.0433	PJ/kt	35.15	PJ
FUEL OIL	273.89	kt	0.0408	PJ/kt	11.16	PJ
OTHER PETROLEUM PRODUCTS	403.43	kt	0.0333	PJ/kt	13.41	PJ
NATURAL GAS AND LNG	10,178.24	mcm	0.0365	PJ/mcm	372.10	PJ
LNG	10,178.24	mcm	0.0366	PJ/mcm	372.10	PJ
TOTAL EXPORTS					6,638.46	PJ
<b>INTERNATIONAL MARINE BUNKERS</b>	797.67	kt	0.0408	PJ/kt	32.51	PJ
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					5,156.95	PJ
<b>TRANSFORMATION SECTOR (INPUT)</b>						
COAL TRANSFORMATION						
COAL	5,081.10	kt	0.0244	PJ/kt	123.98	PJ

Original Table (Energy Demand and Supply) of Australia in 2002 (Continued)

Year:2002

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HARD COAL	4,315.79	kt	0.0271	PJ/kt	116.85	PJ
COKING COAL	4,315.79	kt	0.0271	PJ/kt	116.85	PJ
LIGNITE	765.31	kt	0.0093	PJ/kt	7.13	PJ
OTHER PETROLEUM PRODUCTS	22.73	kt	0.0418	PJ/kt	0.95	PJ
ELECTRICITY	16.67	GWh	0.0036	PJ/GWh	0.06	PJ
COKE	2,716.96	kt	0.0244	PJ/kt	66.21	PJ
NATURAL GAS	6,000.00	TJ	0.0009	PJ/TJ	5.40	PJ
ELECTRICITY	86.11	GWh	0.0036	PJ/GWh	0.31	PJ
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	35,269.98	kt	0.0440	PJ/kt	1,551.35	PJ
CRUDE OIL	32,311.02	kt	0.0440	PJ/kt	1,421.20	PJ
NGL/CONDENSATE	2,958.96	kt	0.0440	PJ/kt	130.15	PJ
NATURAL GAS	16,000.00	TJ	0.0009	PJ/TJ	14.40	PJ
ELECTRICITY	1,822.22	GWh	0.0036	PJ/GWh	6.56	PJ
OTHERS	1,837.21	kt	0.0409	PJ/kt	75.05	PJ
<b>GAS PROCESSING</b>						
LPG	20.24	kt	0.0469	PJ/kt	0.95	PJ
NATURAL GAS	13,000.00	TJ	0.0009	PJ/TJ	11.70	PJ
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	121,043.31	kt	0.0155	PJ/kt	1,878.15	PJ
HARD COAL	55,329.02	kt	0.0229	PJ/kt	1,266.35	PJ
STEAM COAL	26,562.50	kt	0.0243	PJ/kt	646.00	PJ
SUBBITUMINOUS COAL	28,766.52	kt	0.0216	PJ/kt	620.35	PJ
LIGNITE	65,714.29	kt	0.0093	PJ/kt	611.80	PJ
BRIQUETTES	117.19	kt	0.0210	PJ/kt	2.46	PJ
BLAST FURNACE GAS	21,000.00	TJ	0.0009	PJ/TJ	18.90	PJ
DIESEL OIL	194.30	kt	0.0433	PJ/kt	8.42	PJ
FUEL OIL	118.18	kt	0.0408	PJ/kt	4.82	PJ
NATURAL GAS AND LNG	244,000.00	TJ	0.0009	PJ/TJ	219.60	PJ
NATURAL GAS	244,000.00	TJ	0.0009	PJ/TJ	219.60	PJ
HYDRO POWER	15,816.67	GWh	0.0036	PJ/GWh	56.94	PJ
WIND	361.11	GWh	0.0036	PJ/GWh	1.30	PJ
OTHER POWER	109,000.00	TJ	0.0010	PJ/TJ	109.00	PJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
COAL	0.78	kt	0.0243	PJ/kt	0.02	PJ
HARD COAL	0.78	kt	0.0243	PJ/kt	0.02	PJ
STEAM COAL	0.78	kt	0.0243	PJ/kt	0.02	PJ
BLAST FURNACE GAS	1,000.00	TJ	0.0009	PJ/TJ	0.90	PJ
CRUDE OIL AND NGL/CONDENSATE	537.80	kt	0.0440	PJ/kt	23.66	PJ
CRUDE OIL	537.80	kt	0.0440	PJ/kt	23.66	PJ
FUEL OIL	314.69	kt	0.0408	PJ/kt	12.83	PJ
NATURAL GAS AND LNG	55,000.00	TJ	0.0009	PJ/TJ	49.50	PJ
NATURAL GAS	55,000.00	TJ	0.0009	PJ/TJ	49.50	PJ
HYDRO POWER	288.89	GWh	0.0036	PJ/GWh	1.04	PJ
OTHERS	100,230.00	TJ	0.0010	PJ/TJ	100.23	PJ
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	3,444.44	kt	0.0257	PJ/kt	88.35	PJ
COKE OVEN GAS	23,500.00	TJ	0.0009	PJ/TJ	21.15	PJ
BLAST FURNACE GAS	32,000.00	TJ	0.0009	PJ/TJ	28.80	PJ
BRIQUETTES	284.29	kt	0.0200	PJ/kt	5.67	PJ
<b>REFINING</b>						
REFINERY GAS	1,142.19	kt	0.0408	PJ/kt	46.55	PJ
LPG	949.49	kt	0.0470	PJ/kt	44.65	PJ
NAPHTHA	343.04	kt	0.0457	PJ/kt	15.68	PJ
MOGAS	13,254.31	kt	0.0441	PJ/kt	584.25	PJ
JET FUEL	4,267.24	kt	0.0441	PJ/kt	188.10	PJ
KEROSENE	184.38	kt	0.0438	PJ/kt	8.08	PJ
DIESEL OIL	11,096.49	kt	0.0433	PJ/kt	480.70	PJ
FUEL OIL	1,701.63	kt	0.0408	PJ/kt	69.35	PJ
OTHER PETROLEUM PRODUCTS	2,238.64	kt	0.0418	PJ/kt	93.58	PJ
<b>GAS RECOVERING</b>						
TOWN GAS	3,000.00	TJ	0.0009	PJ/TJ	2.70	PJ
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	196,680.56	GWh	0.0036	PJ/GWh	708.05	PJ
COAL	172,083.33	GWh	0.0036	PJ/GWh	619.50	PJ
OIL	1,500.00	GWh	0.0036	PJ/GWh	5.40	PJ
GAS	23,097.22	GWh	0.0036	PJ/GWh	83.15	PJ
HYDRO POWER	15,741.67	GWh	0.0036	PJ/GWh	56.67	PJ
WIND	361.11	GWh	0.0036	PJ/GWh	1.30	PJ
PHOTOVOLTAIC POWER	5.56	GWh	0.0036	PJ/GWh	0.02	PJ
OTHER POWER	200.00	GWh	0.0036	PJ/GWh	0.72	PJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	7,525.00	GWh	0.0036	PJ/GWh	27.09	PJ
COAL	2.78	GWh	0.0036	PJ/GWh	0.01	PJ
OIL	2,258.33	GWh	0.0036	PJ/GWh	8.13	PJ
GAS	5,263.89	GWh	0.0036	PJ/GWh	18.95	PJ
HYDRO POWER	288.89	GWh	0.0036	PJ/GWh	1.04	PJ
OTHER POWER	1,380.56	GWh	0.0036	PJ/GWh	4.97	PJ
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COKE	134.11	kt	0.0244	PJ/kt	3.27	PJ



Original Table (Energy Demand and Supply) of Australia in 2002 (Continued)

Year:2002

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
REFINERY GAS	1,041.26	kt	0.0408	PJ/kt	42.44	PJ
FUEL OIL	68.07	kt	0.0408	PJ/kt	2.77	PJ
OTHER PETROLEUM PRODUCTS	676.82	kt	0.0418	PJ/kt	28.29	PJ
NATURAL GAS AND LNG	11,470.00	TJ	0.0009	PJ/TJ	10.32	PJ
NATURAL GAS	11,470.00	TJ	0.0009	PJ/TJ	10.32	PJ
ELECTRICITY	28,333.33	GWh	0.0036	PJ/GWh	102.00	PJ
TOTAL LOSSES AND OWN USE					189.09	PJ
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	4,785.29	kt	0.0226	PJ/kt	108.20	PJ
HARD COAL	4,784.45	kt	0.0226	PJ/kt	108.18	PJ
STEAM COAL	1,502.34	kt	0.0243	PJ/kt	36.54	PJ
COKING COAL		kt		PJ/kt	19.00	PJ
SUBBITUMINOUS COAL	2,440.97	kt	0.0216	PJ/kt	52.64	PJ
LIGNITE	2.04	kt	0.0093	PJ/kt	0.02	PJ
COKE	3,019.88	kt	0.0244	PJ/kt	73.59	PJ
COKE OVEN GAS	20,230.00	TJ	0.0009	PJ/TJ	18.21	PJ
BRIQUETTES	220.95	kt	0.0200	PJ/kt	4.41	PJ
BLAST FURNACE GAS	10,600.00	TJ	0.0009	PJ/TJ	9.54	PJ
CRUDE OIL AND NGL/CONDENSATE	1.01	kt	0.0469	PJ/kt	0.05	PJ
REFINERY GAS	103.96	kt	0.0408	PJ/kt	4.24	PJ
LPG	2,238.38	kt	0.0470	PJ/kt	105.26	PJ
NAPHTHA	25.99	kt	0.0457	PJ/kt	1.19	PJ
MOGAS	13,748.71	kt	0.0441	PJ/kt	606.04	PJ
JET FUEL	3,678.63	kt	0.0445	PJ/kt	163.55	PJ
KEROSENE	85.90	kt	0.0438	PJ/kt	3.76	PJ
DIESEL OIL	11,103.72	kt	0.0434	PJ/kt	482.07	PJ
FUEL OIL	763.87	kt	0.0408	PJ/kt	31.13	PJ
OTHER PETROLEUM PRODUCTS	2,374.55	kt	0.0418	PJ/kt	99.26	PJ
NATURAL GAS AND LNG	698,420.00	TJ	0.0009	PJ/TJ	628.58	PJ
NATURAL GAS	574,420.00	TJ	0.0009	PJ/TJ	516.98	PJ
LNG	124,000.00	TJ	0.0009	PJ/TJ	111.60	PJ
TOWN GAS	3,480.00	TJ	0.0009	PJ/TJ	3.13	PJ
SOLAR HEAT	4,410.00	TJ	0.0010	PJ/TJ	4.41	PJ
ELECTRICITY	190,022.22	GWh	0.0036	PJ/GWh	684.08	PJ
OTHERS	212,170.00	TJ	0.0010	PJ/TJ	212.17	PJ
TOTAL					3,242.85	PJ
<b>AGRICULTURE</b>						
LPG	17.17	kt	0.0470	PJ/kt	0.81	PJ
MOGAS	92.24	kt	0.0441	PJ/kt	4.07	PJ
DIESEL OIL	1,542.89	kt	0.0434	PJ/kt	66.98	PJ
NATURAL GAS AND LNG	90.00	TJ	0.0009	PJ/TJ	0.08	PJ
NATURAL GAS	90.00	TJ	0.0009	PJ/TJ	0.08	PJ
ELECTRICITY	1,655.39	GWh	0.0036	PJ/GWh	5.96	PJ
TOTAL					77.90	PJ
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	15.23	kt	0.0243	PJ/kt	0.37	PJ
HARD COAL	15.23	kt	0.0243	PJ/kt	0.37	PJ
STEAM COAL	15.23	kt	0.0243	PJ/kt	0.37	PJ
BRIQUETTES	109.05	kt	0.0210	PJ/kt	2.29	PJ
LPG	268.89	kt	0.0470	PJ/kt	12.64	PJ
KEROSENE	68.76	kt	0.0438	PJ/kt	3.01	PJ
DIESEL OIL	387.53	kt	0.0434	PJ/kt	16.82	PJ
FUEL OIL	3.03	kt	0.0408	PJ/kt	0.12	PJ
NATURAL GAS AND LNG	150,400.00	TJ	0.0009	PJ/TJ	135.36	PJ
NATURAL GAS	150,400.00	TJ	0.0009	PJ/TJ	135.36	PJ
TOWN GAS	980.00	TJ	0.0009	PJ/TJ	0.88	PJ
SOLAR HEAT	4,410.00	TJ	0.0010	PJ/TJ	4.41	PJ
ELECTRICITY	99,592.63	GWh	0.0036	PJ/GWh	358.57	PJ
OTHERS	65,670.00	TJ	0.0010	PJ/TJ	65.67	PJ
TOTAL					600.16	PJ
OTHERS						
NATURAL GAS AND LNG	65,000.00	TJ	0.0009	PJ/TJ	58.50	PJ
NATURAL GAS	65,000.00	TJ	0.0009	PJ/TJ	58.50	PJ
TOTAL					58.50	PJ
<b>INDUSTRY</b>						
COAL	3,805.45	kt	0.0276	PJ/kt	105.14	PJ
HARD COAL	3,803.41	kt	0.0276	PJ/kt	105.12	PJ
STEAM COAL	1,487.11	kt	0.0243	PJ/kt	36.17	PJ
COKING COAL		kt		PJ/kt	19.00	PJ
SUBBITUMINOUS COAL	2,316.30	kt	0.0216	PJ/kt	49.95	PJ
LIGNITE	2.04	kt	0.0093	PJ/kt	0.02	PJ
COKE	2,868.89	kt	0.0257	PJ/kt	73.59	PJ
COKE OVEN GAS	20,230.00	TJ	0.0009	PJ/TJ	18.21	PJ
BRIQUETTES	100.90	kt	0.0210	PJ/kt	2.12	PJ
BLAST FURNACE GAS	10,600.00	TJ	0.0009	PJ/TJ	9.54	PJ
CRUDE OIL AND NGL/CONDENSATE	1.01	kt	0.0469	PJ/kt	0.05	PJ
REFINERY GAS	103.96	kt	0.0408	PJ/kt	4.24	PJ
LPG	402.83	kt	0.0470	PJ/kt	18.94	PJ
NAPHTHA	25.99	kt	0.0457	PJ/kt	1.19	PJ
MOGAS	677.59	kt	0.0441	PJ/kt	29.87	PJ
JET FUEL	159.48	kt	0.0441	PJ/kt	7.03	PJ

Original Table (Energy Demand and Supply) of Australia in 2002 (Continued)

Year:2002

Australia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
JET FUEL	159.48	kt	0.0441	PJ/kt	7.03	PJ
KEROSENE	17.14	kt	0.0438	PJ/kt	0.75	PJ
DIESEL OIL	2,208.75	kt	0.0434	PJ/kt	95.89	PJ
FUEL OIL	760.84	kt	0.0408	PJ/kt	31.01	PJ
OTHER PETROLEUM PRODUCTS	1,943.64	kt	0.0418	PJ/kt	81.24	PJ
NATURAL GAS AND LNG	404,250.00	TJ	0.0009	PJ/TJ	363.83	PJ
NATURAL GAS	280,250.00	TJ	0.0009	PJ/TJ	252.23	PJ
LNG	124,000.00	TJ	0.0009	PJ/TJ	111.60	PJ
TOWN GAS	2,500.00	TJ	0.0009	PJ/TJ	2.25	PJ
ELECTRICITY	86,588.89	GWh	0.0036	PJ/GWh	311.72	PJ
OTHERS	146,500.00	TJ	0.0010	PJ/TJ	146.50	PJ
TOTAL					1,303.09	PJ
<b>TRANSPORT</b>						
COAL	124.67	kt	0.0216	PJ/kt	2.69	PJ
HARD COAL	124.67	kt	0.0216	PJ/kt	2.69	PJ
SUBBITUMINOUS COAL	124.67	kt	0.0216	PJ/kt	2.69	PJ
LPG	1,259.80	kt	0.0470	PJ/kt	59.24	PJ
MOGAS	12,978.88	kt	0.0441	PJ/kt	572.11	PJ
JET FUEL	3,550.86	kt	0.0441	PJ/kt	156.52	PJ
DIESEL OIL	6,964.55	kt	0.0434	PJ/kt	302.37	PJ
NATURAL GAS AND LNG	13,680.00	TJ	0.0009	PJ/TJ	12.31	PJ
NATURAL GAS	13,680.00	TJ	0.0009	PJ/TJ	12.31	PJ
ELECTRICITY	2,174.78	GWh	0.0036	PJ/GWh	7.83	PJ
TOTAL					1,113.07	PJ
<b>NON-ENERGY</b>						
LPG	289.70	kt	0.0470	PJ/kt	13.62	PJ
OTHER PETROLEUM PRODUCTS	409.50	kt	0.0440	PJ/kt	18.01	PJ
NATURAL GAS AND LNG	65,000.00	TJ	0.0009	PJ/TJ	58.50	PJ
NATURAL GAS	65,000.00	TJ	0.0009	PJ/TJ	58.50	PJ
TOTAL NON-ENERGY USE					90.14	PJ

Original Table (Energy Demand and Supply) of Australia in 2002 (Continued)  
ELECTRICITY GENERATING CAPACITY

At the time of		2002
unit: MW		
THERMAL POWER		40028
COAL		27656
OIL		1541
GAS		10831
HYDRO POWER		6219
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		106
OTHERS (BIOMASS, MUNICIPAL WASTE)		857
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

## REFINING CAPACITY

At the time of		2002
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		2002			
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

## Original Table (Quarterly) of Australia in 2003

Coal		Unit: Mt			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	-	19	-
	FEB.	-	-	15	-
	MAR.	-	-	19	-
	<b>1st quarter</b>	68	-	54	-
	APR.	-	-	17	-
	MAY.	-	-	18	-
	JUN.	-	-	18	-
	<b>2nd quarter</b>	70	-	52	-
	JUL.	-	-	17	-
	AUG.	-	-	18	-
	SEP.	-	-	18	-
	<b>3rd quarter</b>	72	-	53	-
	OCT.	-	-	19	-
	NOV.	-	-	18	-
	DEC.	-	-	18	-
	<b>4th quarter</b>	70	-	56	-
		281	-	215	-

Oil		Unit: kt						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	2,209	2,167	1,072	-22	472	373	-111
	FEB.	1,945	1,187	972	168	478	326	276
	MAR.	2,026	1,984	1,071	332	350	321	-77
	<b>1st quarter</b>	6,180	5,338	3,115	478	1,300	1,020	88
	APR.	1,896	1,905	1,279	-493	459	186	192
	MAY.	2,028	1,425	1,141	78	477	546	172
	JUN.	1,972	1,772	1,155	129	636	283	-332
	<b>2nd quarter</b>	5,896	5,102	3,575	-286	1,572	1,015	32
	JUL.	2,375	1,279	1,394	-62	598	290	19
	AUG.	2,088	1,367	1,340	-191	635	349	-81
	SEP.	1,819	1,567	1,349	184	652	358	-89
	<b>3rd quarter</b>	6,282	4,213	4,083	-69	1,885	997	-151
	OCT.	1,637	1,285	1,013	-349	838	297	-209
	NOV.	1,849	1,292	1,118	69	510	271	125
	DEC.	1,914	1,587	1,144	-85	926	350	17
	<b>4th quarter</b>	5,400	4,164	3,275	-365	2,274	918	-67
		23,758	18,817	14,048	-242	7,031	3,950	-98

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

Natural Gas ( or LNG)		Unit: Mm <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	2,605	-	-	-
	FEB.	2,384	-	-	-
	MAR.	2,593	-	-	-
	<b>1st quarter</b>	7,582	-	1,950	-
	APR.	2,560	-	-	-
	MAY.	2,690	-	-	-
	JUN.	2,973	-	-	-
	<b>2nd quarter</b>	8,223	-	2,000	-
	JUL.	3,185	-	-	-
	AUG.	3,064	-	-	-
	SEP.	3,004	-	-	-
	<b>3rd quarter</b>	9,253	-	2,097	-
	OCT.	2,750	-	-	-
	NOV.	2,712	-	-	-
	DEC.	2,656	-	-	-
	<b>4th quarter</b>	8,118	-	1,931	-
		33,176	-	7,979	-

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	<b>1st quarter</b>	-	-	-	-	-	-	-
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	<b>2nd quarter</b>	-	-	-	-	-	-	-
	JUL.	-	-	-	-	-	-	-
	AUG.	-	-	-	-	-	-	-
	SEP.	-	-	-	-	-	-	-
	<b>3rd quarter</b>	-	-	-	-	-	-	-
	OCT.	-	-	-	-	-	-	-
	NOV.	-	-	-	-	-	-	-
	DEC.	-	-	-	-	-	-	-
	<b>4th quarter</b>	-	-	-	-	-	-	-
		-	-	-	-	-	-	

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 2001

	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	-	-	9,072	-	-	-	-	-	-
2 Import	-	-	-	8	-	-	1	-	-
3 Export	-	-	-8,475	0	-	-	-	-	-
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	-	-	-32	1	0	-	1	-	0
<b>6 Total Primary Energy Supply</b>	-	-	565	10	0	-	1	-	0
7 Public Electricity	-	-	-	-	-	-	-	-	-
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	-	12	-	-	-	-	-
10 Petroleum Refineries	-	-	-569	513	199	-	73	-	136
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-	-33	-3	-	-3	-	-27
13 Discrepancy	-	-	4	-107	0	-	0	3	-5
<b>14 Total Final Energy Consumption</b>	-	-	-	395	196	-	71	3	104
15 Industry Sector	-	-	-	33	-	-	-	2	31
16 Transport Sector	-	-	-	337	196	-	69	-	73
17 Other Sector	-	-	-	14	-	-	-	1	0
18 Agriculture	-	-	-	0	-	-	-	-	0
19 Residential & Commercial	-	-	-	14	-	-	-	1	0
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	-	8	-	-	-	-	-

## 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
<b>6 Total Primary Energy Supply</b>	-	-	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
<b>14 Total Final Energy Consumption</b>	-	-	-	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 2001 (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
-	-	-	-	8,448	-	-	-	-	-	-	-	17,519
-	-	-	8	-	-	-	-	-	-	-	-	8
-	-	-	0	-6,611	-	-	-	-	-	-	-	-15,086
-	0	-	0	10	-	-	-	-	-	-	-	-20
-	0	-	8	1,847	-	-	-	-	-	-	-	2,422
-	-	-	-	-753	-	-	-	-	-	222	-	-531
-	-	-	-	-666	-	-	-	-	-	28	-	-637
-	12	-	-	-417	-	-	-	-	-	-	-	-405
67	-	37	-	-	-	-	-	-	-	-	-	-56
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-240	-	-	-	-	-	-36	-	-309
-67	1	-37	0	254	-	-	-	-	-	0	-	151
-	13	-	8	26	-	-	-	-	-	214	-	635
-	-	-	-	-	-	-	-	-	-	52	-	84
-	-	-	-	-	-	-	-	-	-	-	-	337
-	13	-	-	26	-	-	-	-	-	163	-	203
-	-	-	-	-	-	-	-	-	-	-	-	0
-	13	-	-	26	-	-	-	-	-	163	-	203
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	8	-	-	-	-	-	-	-	-	8

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	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	3,245	2,632	1,999	1,880	2,052	1,925	1,416	2,259	2,071
Indigenous Production	20,664	16,839	16,005	14,693	14,383	14,271	14,786	14,902	15,259
Import	215	233	41	40	29	37	37	71	80
Export	-17,589	-14,502	-14,038	-12,512	-11,970	-12,107	-13,122	-13,005	-12,977
Final Energy Consumption	241	266	314	401	383	416	440	419	417
Industry	39	35	31	43	39	49	55	48	53
Transport	165	169	215	246	232	253	262	242	255
Residential & Commercial	37	62	68	113	112	115	123	119	108
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	135	236	50	104	78	-133	559	38
Indigenous Production	12,121	9,041	8,687	7,499	7,420	6,945	7,576	7,576	7,677
Import	-	-	-	-	-	-	-	67	76
Export	-11,919	-8,990	-8,435	-7,108	-6,925	-6,591	-7,424	-7,374	-7,424
Transformation Sector	-	258	34	-223	-285	-256	-253	54	65
Petroleum Refineries	-	-	-235	-223	-285	-256	-253	-302	-321
Petroleum Products									
Primary Energy Supply	215	233	15	34	23	32	32	1	0
Import	215	233	41	40	29	37	37	5	4
Export	-	-	-25	-6	-6	-5	-5	-4	-3
Transformation Sector	-	12	189	219	254	257	270	303	313
Power Generation	-	-	-	-1	-2	-2	-2	-3	-3
Petroleum Refineries	-	-	177	188	239	241	255	279	290
Final Energy Consumption	215	230	272	314	299	315	329	302	309
Industry	31	24	17	27	24	20	23	14	17
Transport	165	169	215	246	232	253	262	242	255
Residential & Commercial	19	37	40	42	44	43	44	36	37
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	2,863	2,264	1,748	1,796	1,924	1,815	1,517	1,698	2,033
Indigenous Production	8,543	7,798	7,318	7,194	6,962	7,326	7,210	7,326	7,583
Import	-	-	-	-	-	-	-	-	-
Export	-5,670	-5,512	-5,579	-5,398	-5,038	-5,511	-5,692	-5,628	-5,549
Transformation Sector	-1,726	-1,996	-2,026	-2,393	-2,515	-2,392	-2,558	-2,703	-2,071
Power Generation	-733	-871	-890	-955	-960	-945	-1,410	-1,470	-517
Final Energy Consumption	-	-	-	36	36	36	36	36	25
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	36	36	36	36	36	25
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	33	48	56	61	65	81	91	94	101
Thermal	33	48	56	61	65	81	91	94	101
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	26	37	42	51	48	65	75	81	82
Industry	8	12	13	16	15	29	32	34	36
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	18	25	29	35	33	36	43	47	46
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Brunei Darussalam (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
3,184	2,081	2,669	2,392	2,712	2,811	2,890	2,912	2,529	2,701	2,422	3,320	
16,808	16,785	16,463	16,886	17,395	16,889	16,774	16,238	16,486	17,411	17,519	20,769	
70	42	10	25	36	88	106	38	22	22	8	19	
-13,764	-14,688	-13,804	-14,466	-14,678	-14,251	-13,789	-13,475	-13,896	-14,845	-15,086	-17,516	
407	526	526	564	632	735	801	748	665	636	635	689	
59	27	52	113	109	120	130	108	94	91	84	93	
238	323	314	314	330	361	389	358	324	324	337	360	
109	114	155	113	150	187	217	223	233	198	203	224	
-	5	6	6	-	0	1	0	0	0	0	0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
1,003	461	437	491	534	537	588	606	569	566	565	647	
9,031	8,892	8,535	8,676	8,465	8,027	7,912	7,664	8,386	9,006	9,072	10,124	
30	-	-	-	-	-	-	-	-	-	-	-	
-8,132	-8,373	-8,071	-8,197	-7,900	-7,573	-7,153	-7,130	-7,746	-8,541	-8,475	-9,521	
-312	-520	-498	-503	-534	-546	-612	-632	-582	-573	-569	-647	
-312	-520	-498	-503	-534	-546	-612	-632	-582	-573	-569	-646	
37	42	10	9	40	84	100	42	18	22	10	14	
40	42	10	25	36	88	106	38	22	22	8	19	
-5	-	-	-4	-0	-1	-1	-1	-0	-1	-0	-0	
266	525	401	390	532	518	592	622	521	564	492	410	
-3	-3	-4	-	-4	-4	-5	-5	-4	-5	-	-6	
251	528	405	382	533	518	595	622	520	566	513	561	
289	355	355	416	451	505	548	491	400	401	395	434	
39	-	29	72	65	70	81	60	48	40	33	39	
238	323	314	314	330	361	389	358	324	324	337	360	
12	4	13	12	13	15	16	14	15	14	14	24	
-	-	-	-	-	0	1	0	0	0	0	0	
2,144	1,579	2,222	1,893	2,138	2,190	2,202	2,265	1,943	2,113	1,847	2,660	
7,778	7,893	7,927	8,210	8,931	8,861	8,862	8,573	8,101	8,405	8,448	10,644	
-	-	-	-	-	-	-	-	-	-	-	-	
-5,628	-6,315	-5,733	-6,265	-6,778	-6,676	-6,635	-6,344	-6,150	-6,302	-6,611	-7,995	
-2,821	-966	-1,685	-1,836	-2,358	-2,468	-2,430	-2,658	-2,001	-1,774	-2,075	-2,708	
-1,740	-505	-527	-667	-1,312	-1,336	-1,443	-1,462	-1,219	-1,378	-1,419	-1,891	
30	61	61	17	33	26	25	24	23	22	26	30	
-	5	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
30	32	61	17	33	26	25	24	23	22	26	30	
-	-	-	-	-	-	-	-	-	-	-	-	
109	119	133	143	188	215	233	241	235	244	250	259	
109	119	133	143	188	215	233	241	235	244	250	259	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
88	109	109	131	149	204	228	234	241	213	214	225	
20	22	23	41	44	50	49	49	46	51	52	54	
-	-	-	-	-	-	-	-	-	-	-	-	
68	78	80	84	104	147	176	185	195	161	163	170	
-	5	6	6	-	-	-	-	-	-	-	-	

## Major Economic Indicators of Brunei Darussalam

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	0.19	0.21	0.22	0.22	0.23	0.24	0.24	0.25
Gross Domestic Product *4								
Real Term (Billions of 1995 Price and 1995 USD)	5.68	4.79	4.79	4.72	4.59	4.68	4.73	4.68
Real Term (Billions of 1995 Price and 1995 PPP)	6.23	5.25	5.25	5.17	5.03	304.76	5.19	5.13
Nominal (Billions of Current USD)	4.93	3.86	3.78	3.52	2.36	2.75	2.69	3.00
GDP per Capita *4								
Real Term (1995 Price and 1995 USD)	29,435	22,698	22,060	21,146	20,035	19,914	19,550	18,796
Real Term (1995 Price and 1995 PPP)	32,281	24,894	24,193	23,191	21,972	21,840	21,441	20,614
Nominal (Current USD)	25,538	18,309	17,431	15,801	10,299	11,721	11,119	12,036
Nominal GDP & its Components (Billions of Current BND) *1,*3								
Gross Domestic Product	10.55	8.16	8.07	7.75	5.14	5.80	5.41	5.85
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	0.92	2.51	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	3.59	3.54	3.44	3.51	3.55	3.51
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	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	3.369	3.204	2.972	1.797	1.902	1.708	1.883
Imports, c.i.f.	0.572	0.724	0.626	0.615	0.656	0.641	0.744	0.859
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	2.1130	2.1331	2.2001	2.1774	2.1060	2.0124	1.9503
Purchasing Power Parity (BND/International Dollar) *1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Price Indices								
GDP Deflator (1974=100) *4	247.8	227.4	224.8	219.3	149.3	165.3	152.7	166.6
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	1.16	-0.05	-1.49	-2.71	2.00	1.10	-1.07
Population	3.21	2.93	2.84	2.76	2.69	2.62	2.98	2.89
Price								
Wholesale Price Index	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index	N.A.	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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0.26	0.27	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.34	0.34	0.35
4.81	5.00	4.95	4.97	5.06	5.22	5.27	5.46	5.24	5.38	5.53	5.57	5.79
5.27	5.49	5.43	5.45	5.55	5.72	5.78	5.99	5.75	5.90	6.06	6.11	6.35
3.59	3.83	4.03	4.08	4.38	5.22	5.25	5.14	3.90	4.22	4.32	4.00	4.11
18,711	18,880	18,122	17,696	17,515	17,565	17,281	17,446	16,282	16,295	16,359	16,197	16,496
20,520	20,706	19,875	19,408	19,209	19,263	18,952	19,133	17,857	17,871	17,941	17,763	18,091
13,973	14,463	14,762	14,503	15,146	17,565	17,227	16,412	12,125	12,774	12,770	11,623	11,696
6.51	6.62	6.57	6.59	6.69	7.39	7.41	7.63	6.53	7.14	7.44	7.16	7.35
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.
3.61	3.75	3.71	3.73	3.80	3.91	3.95	4.09	3.93	4.03	4.15	4.18	4.34
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.
2.213	2.682	2.401	2.167	2.210	2.402	2.481	2.467	2.058	2.551	2.855	2.796	2.901
1.001	1.208	1.482	1.822	1.854	2.091	2.494	2.203	1.552	1.397	1.505	1.267	1.640
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.
1.8125	1.7276	1.6290	1.6158	1.5274	1.4174	1.4100	1.4848	1.6736	1.6950	1.7240	1.7917	1.7906
1.5035	1.3728	1.2878	1.2276	1.3191	1.2924	1.2839	1.3140	1.3127	N.A.	N.A.	N.A.	N.A.
180.5	176.5	177.0	176.6	176.2	189.1	187.5	186.3	166.2	177.2	179.5	171.50	169.35
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.
2.74	4.05	-1.12	0.51	1.80	3.06	1.04	3.60	-3.99	2.56	2.83	0.77	3.92
3.21	3.11	3.02	2.93	2.85	2.77	2.69	2.62	2.88	2.48	2.42	1.78	2.03
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 2002

Year:2002

Brunei Darussalam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
CRUDE OIL AND NGL/CONDENSATE	76,615.39	KBBL	0.1321	KTOE/KBBL	10,124.34	KTOE
CRUDE OIL	71,277.92	KBBL	0.1321	KTOE/KBBL	9,419.02	KTOE
NGL/CONDENSATE	5,337.47	KBBL	0.1321	KTOE/KBBL	705.32	KTOE
NATURAL GAS	405,453.96	MMSCF	0.0263	KTOE/MMSCF	10,644.38	KTOE
TOTAL PRODUCTION					20,768.72	KTOE
<b>OPENING STOCKS</b>						
CRUDE OIL AND NGL/CONDENSATE	2,032.43	KBBL	0.1321	KTOE/KBBL	268.57	KTOE
CRUDE OIL	1,590.46	KBBL	0.1321	KTOE/KBBL	210.17	KTOE
NGL/CONDENSATE	441.97	KBBL	0.1321	KTOE/KBBL	58.40	KTOE
LPG	2.29	KBBL	0.0887	KTOE/KBBL	0.20	KTOE
MOGAS	67.36	KBBL	0.1173	KTOE/KBBL	7.90	KTOE
JET FUEL	37.85	KBBL	0.1262	KTOE/KBBL	4.77	KTOE
DIESEL OIL	62.20	KBBL	0.1334	KTOE/KBBL	8.30	KTOE
OTHER PETROLEUM PRODUCTS	12.57	KBBL		KTOE/KBBL		KTOE
TOTAL OPENING STOCKS					289.75	KTOE
<b>CLOSING STOCKS</b>						
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	3.10	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	20.69	KBBL		KTOE/KBBL		KTOE
TOTAL CLOSING STOCKS					248.94	KTOE
<b>STOCK CHANGE</b>						
CRUDE OIL AND NGL/CONDENSATE	332.49	KBBL	0.1321	KTOE/KBBL	43.94	KTOE
CRUDE OIL	-43.90	KBBL	0.1321	KTOE/KBBL	-5.80	KTOE
NGL/CONDENSATE	376.39	KBBL	0.1321	KTOE/KBBL	49.74	KTOE
LPG	-0.81	KBBL	0.0887	KTOE/KBBL	-0.07	KTOE
MOGAS	9.23	KBBL	0.1173	KTOE/KBBL	1.08	KTOE
JET FUEL	-18.14	KBBL	0.1262	KTOE/KBBL	-2.29	KTOE
DIESEL OIL	-13.82	KBBL	0.1334	KTOE/KBBL	-1.84	KTOE
OTHER PETROLEUM PRODUCTS	-8.12	KBBL		KTOE/KBBL	-1.26	KTOE
NATURAL GAS AND LNG	430.34	MMMBTU	0.0227	KTOE/MMMBTU	9.76	KTOE
TOTAL STOCK CHANGE					49.31	KTOE
<b>IMPORTS</b>						
JET FUEL	67.97	KBBL	0.1262	KTOE/KBBL	8.58	KTOE
OTHER PETROLEUM PRODUCTS	66.59	KBBL		KTOE/KBBL	10.24	KTOE
TOTAL IMPORTS					18.82	KTOE
<b>EXPORTS</b>						
HARD COAL						
CRUDE OIL AND NGL/CONDENSATE	72,052.66	KBBL	0.1321	KTOE/KBBL	9,521.40	KTOE
CRUDE OIL	69,635.63	KBBL	0.1321	KTOE/KBBL	9,202.00	KTOE
NGL/CONDENSATE	2,417.03	KBBL	0.1321	KTOE/KBBL	319.40	KTOE
MOGAS	3.85	KBBL	0.1173	KTOE/KBBL	0.45	KTOE
LNG	352,493.72	MMMBTU	0.0227	KTOE/MMMBTU	7,994.56	KTOE
TOTAL EXPORTS					17,516.41	KTOE
<b>INTERNATIONAL MARINE BUNKERS</b>						
<b>TOTAL PRIMARY ENERGY SUPPLY</b>						
					3,320.44	KTOE
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	4,889.24	KBBL	0.1321	KTOE/KBBL	646.09	KTOE
CRUDE OIL	3,045.19	KBBL	0.1321	KTOE/KBBL	402.41	KTOE
NGL/CONDENSATE	1,844.05	KBBL	0.1321	KTOE/KBBL	243.68	KTOE
<b>GAS PROCESSING</b>						
NATURAL GAS	353,248.04	MMSCF	0.0263	KTOE/MMSCF	9,273.82	KTOE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
DIESEL OIL	44.24	KBBL	0.1334	KTOE/KBBL	5.90	KTOE
NATURAL GAS	39,553.31	MMSCF	0.0263	KTOE/MMSCF	1,038.39	KTOE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
NATURAL GAS	37,589.60	MMMBTU	0.0227	KTOE/MMMBTU	852.53	KTOE
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
REFINERY GAS	529.02	KBBL	0.1359	KTOE/KBBL	71.89	KTOE
MOGAS	1,682.41	KBBL	0.1173	KTOE/KBBL	197.39	KTOE
JET FUEL	615.97	KBBL	0.1262	KTOE/KBBL	77.71	KTOE
DIESEL OIL	1,108.76	KBBL	0.1334	KTOE/KBBL	147.89	KTOE
FUEL OIL	463.20	KBBL	0.1422	KTOE/KBBL	65.87	KTOE
<b>GAS RECOVERING</b>						
LNG	391,859.44	MMMBTU	0.0227	KTOE/MMMBTU	8,887.37	KTOE
LPG	593.07	MMMBTU	0.0239	KTOE/MMMBTU	14.20	KTOE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	2,701.47	GWH	0.0860	KTOE/GWH	232.33	KTOE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	315.60	GWH	0.0860	KTOE/GWH	27.14	KTOE
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						

Original Table (Energy Demand and Supply) of Brunei Darussalam in 2002 (Continued)

Year:2002

Brunei Darussalam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
CRUDE OIL AND NGL/CONDENSATE	5.98	KBBL	0.1321	KTOE/KBBL	0.79	KTOE
CRUDE OIL	32.47	KBBL	0.1321	KTOE/KBBL	4.29	KTOE
NGL/CONDENSATE	26.49	KBBL	0.1321	KTOE/KBBL	3.50	KTOE
REFINERY GAS	529.02	KBBL	0.1359	KTOE/KBBL	71.89	KTOE
MOGAS	13.60	KBBL	0.1173	KTOE/KBBL	1.60	KTOE
JET FUEL	14.96	KBBL	0.1262	KTOE/KBBL	1.89	KTOE
DIESEL OIL	135.14	KBBL	0.1334	KTOE/KBBL	18.03	KTOE
FUEL OIL	463.20	KBBL	0.1422	KTOE/KBBL	65.87	KTOE
NATURAL GAS AND LNG					430.60	KTOE
NATURAL GAS	11,518.58	MMSCF	0.0263	KTOE/MMSCF	302.40	KTOE
LNG	5,652.68	MMMBTU	0.0227	KTOE/MMMBTU	128.20	KTOE
ELECTRICITY	405.63	GWH	0.0860	KTOE/GWH	34.88	KTOE
TOTAL LOSSES AND OWN USE					625.54	KTOE
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
LPG	153.18	KBBL	0.0887	KTOE/KBBL	13.59	KTOE
MOGAS	1,673.65	KBBL	0.1173	KTOE/KBBL	196.36	KTOE
JET FUEL	648.06	KBBL	0.1262	KTOE/KBBL	81.76	KTOE
DIESEL OIL	915.55	KBBL	0.1334	KTOE/KBBL	122.12	KTOE
NATURAL GAS	1,134.01	MMSCF	0.0263	KTOE/MMSCF	29.77	KTOE
ELECTRICITY	2,611.44	GWH	0.0860	KTOE/GWH	224.58	KTOE
TOTAL					668.18	KTOE
<b>AGRICULTURE</b>						
DIESEL OIL	1.85	KBBL	0.1334	KTOE/KBBL	0.25	KTOE
TOTAL					0.25	KTOE
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	153.18	KBBL	0.0887	KTOE/KBBL	13.59	KTOE
KEROSENE	7.31	KBBL	0.1262	KTOE/KBBL	0.92	KTOE
DIESEL OIL	1.35	KBBL	0.1334	KTOE/KBBL	0.18	KTOE
OTHER PETROLEUM PRODUCTS	58.42	KBBL			8.96	KTOE
NATURAL GAS	1,134.01	MMSCF	0.0263	KTOE/MMSCF	29.77	KTOE
ELECTRICITY	1,982.05	GWH	0.0860	KTOE/GWH	170.46	KTOE
TOTAL					223.88	KTOE
OTHERS						
TOTAL						KTOE
<b>INDUSTRY</b>						
KEROSENE	12.32	KBBL	0.1262	KTOE/KBBL	1.55	KTOE
DIESEL OIL	279.51	KBBL	0.1334	KTOE/KBBL	37.28	KTOE
ELECTRICITY	629.38	GWH	0.0860	KTOE/GWH	54.13	KTOE
TOTAL					92.96	KTOE
<b>TRANSPORT</b>						
MOGAS	1,673.65	KBBL	0.1173	KTOE/KBBL	196.36	KTOE
JET FUEL	628.44	KBBL	0.1262	KTOE/KBBL	79.28	KTOE
DIESEL OIL	632.85	KBBL	0.1334	KTOE/KBBL	84.41	KTOE
TOTAL					360.05	KTOE
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	58.42	KBBL		KTOE/KBBL	8.96	KTOE
TOTAL NON-ENERGY USE					8.96	KTOE

Original Table (Energy Demand and Supply) of Brunei Darussalam in 2002 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2002  
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 2002

	Unit	
OPERATING RATE (*1)	%	90.16
CRUDE DISTILLATION CAPACITY	1000BD	8.49
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	5.05

(\*1) crude throughput/distillation capacity

NON-COMMERCIAL ENERGY TABLE

At the time of 2002  
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

## Original Table (Disaggregated Final Energy Demand) of Brunei Darussalam in 2002

2002						
Brunei Darussalam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>1 INDUSTRIAL SECTOR</b>						
<b>1.1 IRON AND STEEL (*1)</b>						
KEROSENE	12.32	KBBL	0.1328	KTOE/KBBL	1.64	KTOE
DIESEL OIL	279.51	KBBL	0.1404	KTOE/KBBL	39.24	KTOE
TOTAL					40.88	KTOE
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
TOTAL						KTOE
<b>1.3 NON-FERROUS METALS (*3)</b>						
TOTAL						KTOE
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
TOTAL						KTOE
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
TOTAL						KTOE
<b>1.6 OTHER INDUSTRIES (*6)</b>						
TOTAL						KTOE
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
JET FUEL	628.44	KBBL	0.1328	KTOE/KBBL	83.46	KTOE
<b>2.2 ROAD</b>						
MOGAS	1,673.65	KBBL	0.1235	KTOE/KBBL	206.70	KTOE
DIESEL OIL	632.85	KBBL	0.1404	KTOE/KBBL	88.85	KTOE
TOTAL						KTOE
<b>2.3 RAIL</b>						
TOTAL						KTOE
<b>2.4 INTERNAL NAVIGATION</b>						
TOTAL						KTOE
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
TOTAL						KTOE
<b>3.2 RESIDENTIAL</b>						
LPG	153.18	KBBL	0.0934	KTOE/KBBL	14.31	KTOE
KEROSENE	7.31	KBBL	0.1328	KTOE/KBBL	0.97	KTOE
DIESEL OIL	1.35	KBBL	0.1404	KTOE/KBBL	0.19	KTOE
NATURAL GAS	1,134.01	MMSCF	0.0292	KTOE/MMSCF	33.08	KTOE
TOTAL					48.55	KTOE



## Original Table (Quarterly) of Brunei Darussalam in 2003

Coal		Unit:			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	<b>1st quarter</b>	-	-	-	-
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	<b>2nd quarter</b>	-	-	-	-
	JUL.	-	-	-	-
	AUG.	-	-	-	-
	SEP.	-	-	-	-
	<b>3rd quarter</b>	-	-	-	-
	OCT.	-	-	-	-
	NOV.	-	-	-	-
	DEC.	-	-	-	-
	<b>4th quarter</b>	-	-	-	-

Oil		Unit: m <sup>3</sup>						
		Crude Oil			Petroleum Products			
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	1,053,438		930,997	55,988	72	198	2,454
	FEB.	917,990		876,666	-19,153	1,560	144	1,159
	MAR.	1,053,072		967,314	11,077	939	180	369
	<b>1st quarter</b>	3,024,500		2,774,977	47,912	2,571	522	3,496
	APR.	1,034,032		1,003,566	-24,410	1,478		-1,246
	MAY.	1,034,847		1,058,393	-78,351	204		-8,086
	JUN.	1,051,253		840,738	136,244	1,865		1,573
	<b>2nd quarter</b>	3,120,132		2,902,697	33,483	3,547		-7,794
	JUL.	1,031,976		935,252	24,927			-793
	AUG.	1,035,650		998,094	-32,500			50
	SEP.	1,040,579		946,790	21,464			861
	<b>3rd quarter</b>	3,108,205		2,880,137	13,890			118
	OCT.	1,007,745		1,101,924	-168,450			2,584
	NOV.	1,048,120		879,029	103,463	11		2,558
	DEC.	1,078,348		1,055,409	-46,024			443
	<b>4th quarter</b>	3,134,213		3,036,362	-111,011	11		5,585
		12,387,050	-	11,594,172	-15,726	6,128	522	1,405

Original Table (Quarterly) of Brunei Darussalam in 2003 (Continued)

Natural Gas ( or LNG)		Unit: km <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	1,141,691	-	973,742	N.A
	FEB.	1,014,622	-	873,307	N.A
	MAR.	1,119,064	-	965,151	N.A
	<b>1st quarter</b>	3,275,377	-	2,812,200	N.A
	APR.	1,078,864	-	929,500	N.A
	MAY.	1,084,850	-	925,324	N.A
	JUN.	1,083,697	-	921,389	N.A
	<b>2nd quarter</b>	3,247,410	-	2,776,213	N.A
	JUL.	977,920	-	843,746	N.A
	AUG.	1,044,804	-	921,689	N.A
	SEP.	954,695	-	833,345	N.A
	<b>3rd quarter</b>	2,977,419	-	2,598,781	N.A
	OCT.	946,416	-	821,171	N.A
	NOV.	1,043,574	-	919,942	N.A
	DEC.	1,049,479	-	925,361	N.A
	<b>4th quarter</b>	3,039,469	-	2,666,474	N.A
	12,539,675	-	10,853,668	-	

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	235	235	-	-	-	-	-
	FEB.	209	209	-	-	-	-	-
	MAR.	234	234	-	-	-	-	-
	<b>1st quarter</b>	678	678	-	-	-	-	-
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	<b>2nd quarter</b>	-	-	-	-	-	-	-
	JUL.	-	-	-	-	-	-	-
	AUG.	-	-	-	-	-	-	-
	SEP.	-	-	-	-	-	-	-
	<b>3rd quarter</b>	-	-	-	-	-	-	-
	OCT.	-	-	-	-	-	-	-
	NOV.	-	-	-	-	-	-	-
	DEC.	-	-	-	-	-	-	-
	<b>4th quarter</b>	-	-	-	-	-	-	-
	678	678	-	-	-	-	-	

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 2001

	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
<b>1 Indigenous Production</b>	35,501	-	138,301	-	-	-	-	-	-
<b>2 Import</b>	19,793	404	47,930	10,053	2,143	-	819	14	798
<b>3 Export</b>	-18,595	-51	-76,934	-19,206	-6,964	-379	-255	-154	-6,417
<b>4 International Marine Bunkers</b>	-	-	-	-1,162	-	-	-	-	-
<b>5 Stock Changes</b>	-1,134	-60	-893	-513	-146	1	0	-37	-306
<b>6 Total Primary Energy Supply</b>	<b>35,564</b>	<b>293</b>	<b>108,403</b>	<b>-10,828</b>	<b>-4,967</b>	<b>-378</b>	<b>564</b>	<b>-177</b>	<b>-5,925</b>
<b>7 Public Electricity</b>	-22,706	-	-	-3,156	-	-	-	-	-103
<b>8 Autoproducers of Electricity</b>	-2	-77	-	-383	-	-	-	-	-49
<b>9 Gas Processing</b>	-	638	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-106,554	101,016	34,816	3,729	4,492	1,613	29,307
<b>11 Coal Transformation</b>	-3,491	2,752	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-198	-	-	-9,215	-1	-5	-	-	-199
<b>13 Discrepancy</b>	-8,056	-751	-1,848	267	975	50	-175	-1,117	696
<b>14 Total Final Energy Consumption</b>	<b>1,112</b>	<b>2,854</b>	<b>-</b>	<b>77,700</b>	<b>30,823</b>	<b>3,395</b>	<b>4,881</b>	<b>319</b>	<b>23,727</b>
<b>15 Industry Sector</b>	1,075	2,854	-	15,810	-	3,395	-	23	2,923
<b>16 Transport Sector</b>	-	-	-	48,339	30,823	-	4,881	-	11,197
<b>17 Other Sector</b>	37	-	-	13,383	-	-	-	296	9,607
<b>18 Agriculture</b>	-	-	-	2,535	-	-	-	9	2,313
<b>19 Residential &amp; Commercial</b>	37	-	-	10,849	-	-	-	287	7,295
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	168	-	-	-	-	-

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

Energy Balance Table of Canada in 2001 (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	
-	-	-	-	152,457	-	28,645	19,984	17	10,462	-	-	385,366	
2,892	72	-	3,316	3,202	-	-	-	-	-	1,386	-	82,768	
-2,386	-270	-	-2,381	-88,573	-	-	-	-	-	-3,374	-	-206,734	
-1,162	-	-	-	-	-	-	-	-	-	-	-	-1,162	
38	-43	-	-21	4,626	-	-	-	-	-	-	-	2,025	
-618	-241	-	915	71,712	-	28,645	19,984	17	10,462	-1,989	-	262,263	
-3,053	-	-	-	-5,794	-	-26,137	-19,984	-10	-	46,657	-	-31,130	
-88	-	-246	-	-1,387	-	-2,508	-	-7	-668	3,872	825	-336	
-	-	-	-	-	-	-	-	-	-	-	-	638	
7,406	2,154	5,933	11,564	-	-	-	-	-	-	-	-	-5,539	
-	-	-	-	-	-	-	-	-	-	-	-	-739	
-673	-125	-5,687	-2,523	-12,013	-	-	-	-	-	-5,405	-	-26,830	
1,049	4,568	0	-5,779	-2,656	-	0	-	-	0	-43	-	-13,088	
4,023	6,356	-	4,177	49,861	-	-	-	-	9,794	43,093	825	185,239	
2,593	4,762	-	2,115	21,736	-	-	-	-	7,956	19,202	825	69,459	
768	375	-	295	4,351	-	-	-	-	-	370	-	53,061	
662	1,219	-	1,599	23,774	-	-	-	-	1,837	23,521	-	62,552	
44	135	-	35	501	-	-	-	-	-	833	-	3,869	
618	1,084	-	1,564	23,272	-	-	-	-	1,837	22,688	-	58,683	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	168	-	-	-	-	-	-	-	-	168	

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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	194,245	179,648	187,601	193,954	189,766	200,853	211,834	221,776	205,972
Indigenous Production	207,701	206,506	226,691	240,481	238,048	251,930	271,378	274,114	277,423
Import	41,540	26,259	30,103	29,044	34,160	38,120	43,453	45,954	46,704
Export	-52,494	-56,030	-66,884	-79,607	-77,248	-87,401	-103,220	-102,818	-115,117
Final Energy Consumption	156,724	142,832	149,102	153,478	154,266	156,848	165,881	169,860	164,625
Industry	61,067	54,438	59,506	61,887	62,769	65,632	68,494	68,181	65,628
Transport	45,020	37,855	39,166	39,861	39,892	41,691	44,511	45,350	44,234
Residential & Commercial	48,190	46,563	47,640	48,844	48,691	46,733	49,783	52,904	51,299
Agriculture	2,431	3,965	2,775	2,866	2,902	2,780	2,966	3,306	3,291
<b>Coal, Coal Products</b>									
Primary Energy Supply	21,293	23,869	27,298	26,930	20,085	26,627	27,959	30,876	26,275
Indigenous Production	20,204	24,186	31,683	33,742	32,063	33,510	36,627	39,039	37,926
Import	10,808	10,559	12,776	10,141	9,444	10,077	11,861	9,960	9,635
Export	-10,203	-11,311	-16,714	-18,217	-17,226	-17,823	-19,886	-22,600	-21,441
Transformation Sector	-16,320	-19,963	-22,074	-21,085	-19,366	-21,078	-22,881	-23,030	-17,720
Power Generation	-14,797	-18,766	-20,710	-19,781	-18,064	-19,886	-21,699	-21,926	-16,767
Final Energy Consumption	5,657	4,832	5,350	5,350	5,128	5,068	5,173	4,946	3,982
Industry	5,554	4,734	5,250	5,243	5,023	4,978	5,099	4,892	3,931
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	103	98	100	107	105	91	74	55	50
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	97,222	74,761	74,792	73,335	72,576	76,846	80,224	82,607	79,502
Indigenous Production	85,309	80,264	85,246	86,990	87,074	91,626	96,410	94,101	99,742
Import	28,162	12,542	12,434	14,362	18,062	20,605	22,869	25,055	27,544
Export	-15,229	-18,611	-22,196	-28,382	-32,352	-34,413	-39,699	-36,930	-47,110
Transformation Sector	-96,888	-73,677	-74,455	-73,426	-72,284	-76,842	-81,215	-83,993	-95,218
Petroleum Refineries	-96,888	-73,677	-74,455	-73,426	-72,284	-76,842	-81,215	-83,993	-95,218
<b>Petroleum Products</b>									
Primary Energy Supply	-6,363	-2,183	-3,152	-2,255	-1,072	-3,005	-3,506	-2,336	-5,694
Import	2,314	2,919	4,690	4,271	6,017	7,065	7,875	9,198	7,476
Export	-6,408	-6,284	-6,941	-7,946	-7,194	-8,317	-11,465	-10,578	-11,961
Transformation Sector	85,932	66,110	67,049	66,242	66,466	69,934	73,694	75,263	76,702
Power Generation	-2,998	-1,581	-1,419	-1,536	-1,349	-2,178	-2,584	-4,001	-3,468
Petroleum Refineries	95,314	72,521	73,629	72,807	72,526	76,877	81,399	84,597	88,237
Final Energy Consumption	81,315	65,214	65,556	65,494	66,459	67,918	70,930	72,757	70,538
Industry	20,046	14,448	15,310	15,659	16,667	17,252	18,059	18,093	17,782
Transport	43,191	36,527	37,446	37,695	37,962	39,362	41,547	42,230	41,055
Residential & Commercial	16,583	11,297	11,135	10,416	10,089	9,566	9,427	10,258	9,480
Agriculture	1,478	2,933	1,650	1,705	1,729	1,727	1,770	2,056	2,049
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	45,889	43,525	46,670	49,902	47,994	48,811	53,623	57,791	54,323
Indigenous Production	63,643	59,277	64,407	70,240	65,804	71,439	82,414	87,332	88,158
Import	2	2	2	5	213	76	313	626	521
Export	-18,057	-16,485	-17,469	-21,329	-17,128	-22,772	-29,242	-30,790	-33,044
Transformation Sector	-6,704	-5,821	-6,103	-6,697	-6,886	-7,168	-7,977	-10,075	-9,489
Power Generation	-1,806	-1,617	-1,452	-1,201	-1,283	-1,187	-1,431	-2,952	-1,720
Final Energy Consumption	35,108	35,662	38,977	41,674	40,019	39,701	44,105	45,689	44,456
Industry	17,137	16,136	18,379	19,284	18,749	20,013	22,055	22,308	21,379
Transport	1,634	1,123	1,498	1,935	1,689	2,073	2,675	2,830	2,897
Residential & Commercial	16,058	18,081	18,723	20,056	19,186	17,223	18,929	20,077	19,681
Agriculture	279	320	377	399	394	392	447	473	499
<b>Electricity</b>									
Power Generation	32,245	34,843	37,364	39,245	40,068	42,437	43,102	42,564	41,089
Thermal	7,390	8,027	8,482	8,172	7,488	8,897	9,933	11,023	9,647
Hydro	21,769	22,843	24,647	26,163	26,799	27,274	26,447	25,062	25,524
Nuclear	3,085	3,974	4,235	4,910	5,781	6,267	6,722	6,479	5,919
Final Energy Consumption	26,440	28,351	30,513	31,915	33,357	34,685	36,417	37,236	37,231
Industry	12,035	12,258	13,772	14,718	15,109	15,924	16,124	15,802	15,726
Transport	196	205	222	232	241	256	289	289	282
Residential & Commercial	13,535	15,176	15,771	16,203	17,228	17,844	19,253	20,369	20,481
Agriculture	674	712	748	762	779	662	750	776	743

## Major Energy Indicators of Canada (Continued)

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1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
210,895	215,706	228,638	237,485	241,214	247,305	248,700	244,072	254,909	263,536	262,263	256,452
288,499	294,262	322,354	344,775	356,808	362,832	372,298	373,317	370,888	380,515	385,366	388,533
44,965	44,850	44,791	46,420	45,959	52,441	59,461	62,434	68,062	75,626	82,768	72,108
-124,842	-128,447	-138,301	-152,852	-165,169	-168,874	-180,964	-190,179	-188,182	-199,769	-206,734	-208,719
162,726	165,775	168,855	174,999	178,449	185,088	187,389	183,349	188,585	191,576	185,239	194,309
65,102	65,298	65,563	68,835	70,368	72,531	73,848	72,525	74,012	74,139	69,459	74,669
42,940	44,700	45,304	47,425	48,701	49,990	51,462	52,777	54,455	53,801	53,061	53,843
51,167	52,047	54,100	54,815	55,277	58,222	57,591	53,703	55,708	59,162	58,683	62,103
3,365	3,578	3,726	3,752	3,912	4,139	4,280	4,127	4,212	4,242	3,869	3,519
27,460	27,443	24,914	26,748	26,483	27,243	28,451	29,287	32,502	33,373	35,857	29,113
39,732	35,361	37,527	39,417	40,845	41,583	43,021	39,971	36,051	34,245	35,501	33,023
8,460	8,751	5,857	6,449	6,929	8,176	9,277	11,195	14,816	17,353	20,197	14,129
-23,493	-19,430	-19,650	-22,026	-23,591	-23,944	-25,322	-22,908	-19,970	-19,116	-18,646	-16,473
-18,733	-19,143	-16,987	-17,701	-17,799	-18,281	-19,717	-21,085	-20,949	-22,820	-23,084	-22,378
-17,770	-18,310	-16,237	-16,889	-17,070	-17,452	-18,884	-20,405	-20,729	-22,644	-22,785	-22,206
4,120	4,082	3,874	3,924	3,984	4,005	4,020	3,948	4,034	4,191	3,966	4,080
4,070	4,036	3,831	3,886	3,931	3,955	3,974	3,908	3,996	4,138	3,929	3,942
-	-	-	-	-	-	-	-	-	-	-	-
50	45	41	38	53	50	45	41	38	53	37	138
-	-	-	-	-	-	-	-	-	-	-	-
80,787	80,677	91,478	92,381	93,611	97,222	100,225	99,582	102,814	104,864	108,403	105,682
100,010	101,209	112,769	116,874	122,998	123,013	131,676	135,012	132,077	136,406	138,301	141,080
27,926	26,364	30,441	32,029	30,541	35,347	39,429	39,825	42,543	47,457	47,930	44,843
-46,959	-47,332	-51,567	-55,541	-60,707	-61,042	-69,418	-76,318	-71,752	-78,680	-76,934	-80,166
-93,561	-90,912	-92,140	-92,868	-93,085	-97,717	-99,740	-99,654	-101,729	-103,219	-106,554	-105,218
-93,561	-90,912	-92,140	-92,868	-93,085	-97,717	-99,740	-99,654	-101,729	-103,219	-106,554	-105,218
-6,370	-3,578	-6,131	-7,017	-5,603	-7,371	-7,794	-6,762	-6,265	-7,784	-10,828	-12,742
7,796	7,827	7,180	6,480	7,299	7,388	8,897	9,277	8,665	8,175	10,053	8,725
-13,502	-11,830	-12,590	-11,737	-12,408	-14,503	-15,310	-14,328	-14,763	-14,908	-19,206	-20,769
74,592	72,284	75,217	77,109	76,708	81,057	82,660	82,127	84,209	86,657	88,261	90,658
-2,919	-3,198	-2,372	-1,844	-2,133	-1,713	-2,489	-3,633	-2,952	-2,724	-3,540	-2,869
85,588	84,031	86,398	87,704	87,888	91,683	94,134	94,251	95,925	98,116	101,016	104,195
67,166	68,279	69,055	71,525	72,588	75,263	77,587	77,202	79,555	77,356	77,700	80,838
16,681	16,831	16,750	17,049	17,118	17,997	18,491	18,076	18,511	15,094	15,810	18,057
39,453	40,234	40,597	42,498	43,310	44,416	45,772	47,024	48,705	48,655	48,339	48,896
8,830	8,837	9,303	9,387	9,356	9,929	10,251	9,093	9,291	10,553	10,849	11,478
2,052	2,233	2,245	2,420	2,613	2,716	2,864	2,792	2,852	2,836	2,535	2,233
55,044	57,977	61,582	64,632	67,109	70,297	70,579	68,047	70,008	75,190	71,712	75,276
93,198	102,353	112,905	123,966	130,252	135,086	137,291	142,063	144,428	148,899	152,457	153,585
260	1,352	664	860	552	998	1,041	650	659	1,329	3,202	3,028
-38,779	-47,143	-51,488	-59,169	-64,727	-65,616	-67,025	-72,784	-77,837	-82,682	-88,573	-88,207
-9,014	-9,840	-10,621	-12,038	-13,017	-12,871	-13,736	-15,339	-16,079	-17,701	-19,194	-19,207
-1,505	-2,491	-2,931	-3,041	-3,912	-3,327	-4,103	-5,044	-4,607	-6,326	-7,181	-6,606
45,240	46,900	48,885	50,509	51,763	55,114	54,567	50,941	52,126	55,533	49,861	53,890
21,415	21,336	21,749	22,784	23,469	24,630	25,162	23,820	23,622	26,124	21,736	23,584
3,220	4,173	4,395	4,610	5,056	5,245	5,324	5,307	5,319	4,758	4,351	4,603
20,104	20,851	22,069	22,607	22,745	24,661	23,514	21,303	22,664	24,065	23,272	25,224
502	540	671	509	492	578	566	511	518	586	501	481
43,320	44,350	45,301	47,350	47,679	48,815	49,005	48,075	49,051	52,038	50,529	51,330
9,915	10,600	9,851	10,233	10,849	10,701	12,148	13,728	13,668	14,961	15,289	15,007
26,515	27,213	27,830	28,370	28,894	30,590	30,163	28,547	29,421	30,818	28,645	29,829
6,890	6,536	7,620	8,747	7,937	7,525	6,694	5,801	5,961	6,260	6,595	6,494
37,674	38,064	38,863	39,387	40,172	40,817	41,347	41,069	41,901	43,221	43,093	44,099
15,953	16,091	16,600	17,029	17,642	17,806	18,137	18,347	18,743	19,342	19,202	19,526
268	294	313	318	334	330	365	446	431	389	370	345
20,640	20,866	21,141	21,216	21,388	21,836	21,993	21,452	21,885	22,656	22,688	23,423
812	805	810	824	807	846	850	823	842	820	833	805



## Major Economic Indicators of Canada

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	24.59	25.46	25.70	25.94	26.20	26.55	26.90	27.38
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	406.75	418.66	443.26	464.44	475.58	495.72	520.39	533.45
Real Term (Billions of 1995 Price and 1995 PPP)	457.24	470.63	498.28	522.09	534.62	304.76	584.98	599.67
Nominal (Billions of Current USD)	266.00	328.99	342.33	350.67	363.37	415.32	490.56	547.29
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	16,539	16,447	17,246	17,903	18,149	18,671	19,349	19,484
Real Term (1995 Price and 1995 PPP)	18,592	18,488	19,387	20,125	20,402	20,989	21,750	21,902
Nominal (Current USD)	10,816	12,924	13,319	13,517	13,867	15,643	18,240	19,989
Nominal GDP & its Components (Billions of Current CAD) *1								
Gross Domestic Product	311.02	405.45	443.34	478.83	504.90	550.71	603.74	647.98
Household Final Consumption Expenditure, etc.	165.47	219.13	238.93	260.83	281.97	304.95	330.09	356.81
General Government Final Consumption Expenditure	67.02	93.05	97.74	105.71	111.03	117.50	127.49	138.04
Gross Fixed Capital Formation	72.94	83.95	88.24	98.09	105.51	120.90	136.66	149.06
Stock Change	-0.68	-2.61	3.97	3.48	2.63	2.56	3.48	4.09
Exports of Goods and Services	87.69	103.70	127.66	136.22	141.56	148.82	162.80	167.74
Imports of Goods and Services	82.17	90.91	112.42	125.59	137.23	142.72	158.58	168.14
Real GDP & its Components (Billions of 1995 CAD) *1								
Gross Domestic Product	558.24	574.59	608.35	637.42	652.71	680.35	714.20	732.13
Household Final Consumption Expenditure, etc.	321.94	327.65	341.62	358.51	371.68	386.72	403.26	416.54
General Government Final Consumption Expenditure	132.19	139.18	140.68	146.73	149.39	151.40	158.28	162.68
Gross Fixed Capital Formation	107.04	105.64	108.12	117.57	123.02	135.91	148.60	156.95
Stock Change	3.50	-10.38	-0.11	-0.58	-1.70	-0.51	-0.18	2.49
Exports of Goods and Services	122.11	131.94	156.44	164.05	171.23	176.49	192.55	194.13
Imports of Goods and Services	116.81	119.13	139.52	151.24	162.17	170.82	194.02	205.36
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.1	3.2	3.0	3.0	3.2	3.1	2.9	2.9
Industry	31.7	30.2	30.9	31.0	30.6	30.6	30.8	30.3
Services, etc.	61.7	62.7	61.5	61.6	62.5	62.3	61.5	61.8
Industrial Production Index (2000=100) *2	57.6	56.4	63.3	66.8	66.7	70.0	73.7	73.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	67.734	76.749	90.272	90.950	90.329	98.168	117.105	121.832
Imports, c.i.f.	62.544	64.789	77.789	80.640	85.494	92.593	112.711	119.792
Balance of Payments (Billions of Current USD) *2								
Trade Balance	7.939	14.177	15.611	11.867	7.182	9.170	8.849	6.560
Current Account	-6.088	-2.543	-1.368	-5.734	-11.157	-13.430	-14.818	-21.769
Overall Balance	-0.536	-0.007	-1.809	-3.270	-0.419	3.313	8.150	0.693
Foreign Exchange Rate (CAD/USD) *1	1.1692	1.2324	1.2951	1.3655	1.3895	1.3260	1.2307	1.1840
Purchasing Power Parity (CAD/International Dollar) *1	1.1815	1.2369	1.2293	1.2284	1.2333	1.2560	1.2664	1.2746
Price Indices								
GDP Deflator (1995=100) *3	55.7	70.6	72.9	75.1	77.4	80.9	84.5	88.5
Industry Selling Price Index (2000=100) *2	54.5	66.3	69.3	71.2	71.9	73.9	77.0	78.6
Consumer Price Index (2000=100) *2	46.2	60.9	63.5	66.0	68.8	71.8	74.7	78.4
Growth Rate (%) *3								
Real GDP	1.34	2.84	5.87	4.78	2.40	4.23	4.98	2.51
Population	1.30	1.01	0.97	0.93	1.01	1.32	1.30	1.80
Price								
Industry Selling Price Index	13.4	3.5	4.5	2.7	0.9	2.8	4.3	2.0
Consumer Price Index	10.2	5.8	4.3	4.0	4.2	4.4	4.0	5.0

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

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

## Major Economic Indicators of Canada (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
27.79	28.17	28.52	28.83	29.11	29.35	29.67	29.99	30.25	30.50	30.77	31.08	31.36
534.39	523.00	527.57	539.94	565.92	581.66	591.03	616.12	641.26	676.30	707.13	717.39	740.81
600.72	587.92	593.05	606.96	636.16	653.86	664.39	692.59	720.86	760.24	794.90	806.43	832.76
574.20	588.84	570.28	554.69	555.84	581.66	604.37	627.60	606.92	649.81	706.65	694.48	714.32
19,229	18,565	18,498	18,727	19,439	19,816	19,919	20,546	21,200	22,174	22,981	23,080	23,621
21,616	20,869	20,794	21,051	21,852	22,275	22,391	23,096	23,832	24,927	25,833	25,945	26,553
20,662	20,902	19,996	19,238	19,093	19,816	20,368	20,929	20,065	21,306	22,965	22,343	22,777
669.97	674.64	689.31	715.59	759.08	798.30	824.04	868.98	900.35	965.44	1,049.45	1,075.58	1,120.99
376.36	388.52	400.93	417.64	435.04	449.89	468.59	498.07	518.10	547.10	579.90	605.81	N.A.
150.99	161.78	168.33	170.66	171.09	171.95	170.56	171.18	178.66	184.66	195.30	203.66	N.A.
144.86	134.41	131.23	131.07	144.96	143.00	149.94	174.84	181.84	195.30	209.94	216.49	N.A.
-2.68	-5.67	-6.56	-1.30	0.53	9.03	2.27	8.18	4.71	4.98	8.05	-6.03	N.A.
174.44	171.00	188.59	218.44	260.92	301.13	319.97	347.13	377.38	420.21	482.74	471.25	N.A.
174.02	175.40	191.67	218.96	252.29	275.87	286.65	330.35	359.94	387.15	428.00	415.62	N.A.
733.42	717.79	724.06	741.04	776.69	798.30	811.15	845.58	880.09	928.18	970.49	984.57	1,016.71
421.15	414.27	420.69	428.22	440.99	449.89	461.36	482.96	496.36	515.70	535.16	548.85	N.A.
168.45	173.40	175.10	175.13	172.95	171.95	169.83	168.16	173.52	176.83	180.87	186.84	N.A.
150.79	142.62	138.72	135.93	146.09	143.00	149.26	171.97	176.17	189.93	202.21	205.62	N.A.
-4.68	-8.73	-9.48	-2.97	0.32	9.03	2.64	8.29	6.02	6.63	10.10	-3.55	N.A.
203.39	207.06	222.01	246.22	277.64	301.13	318.19	344.68	375.92	413.80	446.87	429.72	N.A.
209.53	214.73	224.82	241.43	260.90	275.87	289.88	331.35	348.24	375.27	406.14	382.74	N.A.
3.0	2.9	2.7	2.9	2.8	2.7	2.7	2.5	2.5	2.6	2.4	2.2	N.A.
29.6	28.9	28.4	28.6	28.8	28.9	28.9	29.1	28.9	28.8	29.0	28.0	N.A.
62.6	64.0	64.6	64.5	64.1	63.9	63.7	63.6	63.6	63.5	63.5	64.6	N.A.
71.2	68.2	68.9	72.0	76.7	80.2	81.3	84.8	87.8	93.3	100.0	97.7	100.0
127.629	127.163	134.435	145.178	165.376	192.197	201.633	214.422	214.327	238.446	276.635	259.858	252.394
123.244	124.782	129.262	139.035	155.072	168.426	175.158	200.873	206.066	220.183	244.786	227.291	227.463
9.513	6.126	7.381	10.137	14.834	25.855	31.091	18.565	15.922	28.292	45.047	45.275	36.436
-19.764	-22.345	-21.160	-21.823	-13.024	-4.328	3.378	-8.233	-7.839	1.765	19.622	16.209	14.447
1.139	-1.848	-4.786	0.904	-0.392	2.711	5.498	-2.393	4.996	5.933	3.720	2.172	-0.185
1.1668	1.1457	1.2087	1.2901	1.3656	1.3724	1.3635	1.3846	1.4835	1.4857	1.4851	1.5488	1.5693
1.2635	1.2577	1.2397	1.2303	1.2176	1.2209	1.2180	1.2117	1.1895	1.1953	1.2291	1.2114	1.2123
91.3	94.0	95.2	96.6	97.7	100.0	101.6	102.8	102.3	104.0	108.1	109.2	110.3
78.8	78.0	78.4	81.2	86.1	92.5	92.9	93.7	93.7	95.2	100.0	101.1	101.2
82.1	86.7	88.1	89.7	89.8	91.8	93.2	94.7	95.7	97.3	100.0	102.5	104.8
0.18	-2.13	0.87	2.35	4.81	2.78	1.61	4.24	4.08	5.46	4.56	1.45	3.26
1.50	1.37	1.24	1.10	0.97	0.83	1.08	1.06	0.87	0.83	0.89	1.01	0.90
0.3	-1.0	0.5	3.6	6.1	7.4	0.4	0.9	-0.1	1.6	5.1	1.1	0.1
4.8	5.6	1.5	1.8	0.2	2.2	1.6	1.6	1.0	1.7	2.7	2.5	2.2

## Original Table (Energy Demand and Supply) of Canada in 2002

Year:2002

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
HARD COAL	55,021.00	kilotonnes	0.0222	Petajoules/kilotonnes	1,219.14	Petajoules
STEAM COAL	3,485.00	kilotonnes	0.0256	Petajoules/kilotonnes	89.16	Petajoules
COKING COAL	26,056.00	kilotonnes	0.0256	Petajoules/kilotonnes	666.43	Petajoules
SUBBITUMINOUS COAL	25,480.00	kilotonnes	0.0182	Petajoules/kilotonnes	463.55	Petajoules
LIGNITE	11,472.00	kilotonnes	0.0142	Petajoules/kilotonnes	163.48	Petajoules
CRUDE OIL AND NGL	174,084.23	1000m*3	0.0339	Petajoules/1000m*3	5,906.75	Petajoules
NATURAL GAS	187,576.05	1000000m*3	0.0343	Petajoules/1000000m*3	6,430.29	Petajoules
HYDRO POWER	350,385.91	GWh	0.0036	Petajoules/GWh	1,248.90	Petajoules
NUCLEAR POWER	75,525.51	GWh	0.0109	Petajoules/GWh	823.91	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	40,303.63	kilotonnes	0.0118	Petajoules/kilotonnes	473.91	Petajoules
TOTAL PRODUCTION					16,267.10	Petajoules
<b>OPENING STOCKS</b>						
COKE	272.00	kilotonnes	0.0274	Petajoules/kilotonnes	7.45	Petajoules
CRUDE OIL AND NGL	10,428.67	1000m*3	0.0326	Petajoules/1000m*3	340.02	Petajoules
LPG	272.87	1000m*3	0.0257	Petajoules/1000m*3	7.01	Petajoules
NAPHTHA	452.83	1000m*3	0.0334	Petajoules/1000m*3	15.13	Petajoules
MOGAS	2,705.73	1000m*3	0.0329	Petajoules/1000m*3	89.09	Petajoules
JET FUEL	388.82	1000m*3	0.0346	Petajoules/1000m*3	13.44	Petajoules
KEROSENE	167.97	1000m*3	0.0358	Petajoules/1000m*3	6.01	Petajoules
DIESEL OIL	2,795.87	1000m*3	0.0367	Petajoules/1000m*3	102.74	Petajoules
FUEL OIL	556.31	1000m*3	0.0396	Petajoules/1000m*3	22.05	Petajoules
OTHER PETROLEUM PRODUCTS	2,408.07	1000m*3	0.0371	Petajoules/1000m*3	89.43	Petajoules
TOTAL OPENING STOCKS					692.37	Petajoules
<b>CLOSING STOCKS</b>						
COKE	230.00	kilotonnes	0.0274	Petajoules/kilotonnes	6.30	Petajoules
CRUDE OIL AND NGL	10,487.92	1000m*3	0.0327	Petajoules/1000m*3	343.15	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 CLOSING STOCKS					686.65	Petajoules
<b>STOCK CHANGE</b>						
HARD COAL	-3,531.00	kilotonnes	0.0239	Petajoules/kilotonnes	-84.56	Petajoules
STEAM COAL	-1,650.00	kilotonnes	0.0256	Petajoules/kilotonnes	-42.21	Petajoules
COKING COAL	-1,100.00	kilotonnes	0.0256	Petajoules/kilotonnes	-28.13	Petajoules
SUBBITUMINOUS COAL	-781.00	kilotonnes	0.0182	Petajoules/kilotonnes	-14.21	Petajoules
LIGNITE	1,250.00	kilotonnes	0.0142	Petajoules/kilotonnes	17.81	Petajoules
COKE	42.00	kilotonnes	0.0274	Petajoules/kilotonnes	1.15	Petajoules
CRUDE OIL AND NGL	-59.24	1000m*3	0.0528	Petajoules/1000m*3	-3.13	Petajoules
LPG	99.19	1000m*3	0.0250	Petajoules/1000m*3	2.48	Petajoules
NAPHTHA	106.43	1000m*3	0.0334	Petajoules/1000m*3	3.56	Petajoules
MOGAS	230.43	1000m*3	0.0329	Petajoules/1000m*3	7.59	Petajoules
JET FUEL	42.82	1000m*3	0.0346	Petajoules/1000m*3	1.48	Petajoules
KEROSENE	46.72	1000m*3	0.0357	Petajoules/1000m*3	1.67	Petajoules
DIESEL OIL	202.58	1000m*3	0.0367	Petajoules/1000m*3	7.44	Petajoules
FUEL OIL	33.92	1000m*3	0.0395	Petajoules/1000m*3	1.34	Petajoules
OTHER PETROLEUM PRODUCTS	-467.57	1000m*3	0.0382	Petajoules/1000m*3	-17.86	Petajoules
NATURAL GAS	8,389.79	1000000m*3	0.0343	Petajoules/1000000m*3	287.61	Petajoules
TOTAL STOCK CHANGE					226.59	Petajoules
<b>IMPORTS</b>						
HARD COAL	24,316.00	kilotonnes	0.0239	Petajoules/kilotonnes	581.77	Petajoules
STEAM COAL	15,081.00	kilotonnes	0.0256	Petajoules/kilotonnes	385.84	Petajoules
COKING COAL	3,781.00	kilotonnes	0.0256	Petajoules/kilotonnes	96.71	Petajoules
SUBBITUMINOUS COAL	5,454.00	kilotonnes	0.0182	Petajoules/kilotonnes	99.22	Petajoules
LIGNITE		kilotonnes	0.0142	Petajoules/kilotonnes		Petajoules
COKE	356.68	kilotonnes	0.0274	Petajoules/kilotonnes	9.77	Petajoules
CRUDE OIL AND NGL	50,885.03	1000m*3	0.0369	Petajoules/1000m*3	1,877.48	Petajoules
LPG	377.91	1000m*3	0.0272	Petajoules/1000m*3	10.28	Petajoules
NAPHTHA	5.00	1000m*3	0.0340	Petajoules/1000m*3	0.17	Petajoules
MOGAS	1,904.35	1000m*3	0.0329	Petajoules/1000m*3	62.70	Petajoules
JET FUEL	1,687.98	1000m*3	0.0346	Petajoules/1000m*3	58.32	Petajoules
KEROSENE	28.32	1000m*3	0.0357	Petajoules/1000m*3	1.01	Petajoules
DIESEL OIL	403.97	1000m*3	0.0367	Petajoules/1000m*3	14.84	Petajoules
FUEL OIL	2,006.89	1000m*3	0.0396	Petajoules/1000m*3	79.56	Petajoules
OTHER PETROLEUM PRODUCTS	3,601.13	1000m*3	0.0384	Petajoules/1000m*3	138.41	Petajoules
NATURAL GAS	3,698.58	1000000m*3	0.0343	Petajoules/1000000m*3	126.79	Petajoules
ELECTRICITY	16,087.78	GWh	0.0036	Petajoules/GWh	57.92	Petajoules
TOTAL IMPORTS					3,019.02	Petajoules
<b>EXPORTS</b>						
HARD COAL	26,813.00	kilotonnes	0.0256	Petajoules/kilotonnes	685.82	Petajoules
STEAM COAL	3,394.00	kilotonnes	0.0256	Petajoules/kilotonnes	86.83	Petajoules
COKING COAL	23,419.00	kilotonnes	0.0256	Petajoules/kilotonnes	598.99	Petajoules
LIGNITE		kilotonnes	0.0142	Petajoules/kilotonnes		Petajoules

Original Table (Energy Demand and Supply) of Canada in 2002 (Continued)

Year:2002

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COKE	140.58	kilotonnes	0.0274	Petajoules/kilotonnes	3.85	Petajoules
LPG	697.55	1000m*3	0.0245	Petajoules/1000m*3	17.06	Petajoules
NAPHTHA	604.68	1000m*3	0.0334	Petajoules/1000m*3	20.20	Petajoules
MOGAS	9,487.05	1000m*3	0.0329	Petajoules/1000m*3	312.38	Petajoules
JET FUEL	395.57	1000m*3	0.0346	Petajoules/1000m*3	13.67	Petajoules
KEROSENE	149.75	1000m*3	0.0358	Petajoules/1000m*3	5.36	Petajoules
DIESEL OIL	7,426.62	1000m*3	0.0367	Petajoules/1000m*3	272.90	Petajoules
FUEL OIL	3,109.23	1000m*3	0.0396	Petajoules/1000m*3	123.26	Petajoules
OTHER PETROLEUM PRODUCTS	2,711.02	1000m*3	0.0386	Petajoules/1000m*3	104.72	Petajoules
NATURAL GAS	107,728.20	1000000m*3	0.0343	Petajoules/1000000m*3	3,693.03	Petajoules
ELECTRICITY	36,116.95	GWh	0.0036	Petajoules/GWh	130.02	Petajoules
TOTAL EXPORTS					8,738.66	Petajoules
<b>INTERNATIONAL MARINE BUNKERS</b>	1,004.71	1000m*3	0.0367	Petajoules/1000m*3	36.92	Petajoules
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					10,737.12	Petajoules
<b>TRANSFORMATION SECTOR (INPUT)</b>					8,122.65	Petajoules
<b>COAL TRANSFORMATION</b>					142.94	Petajoules
HARD COAL	5,193.74	kilotonnes	0.0275	Petajoules/kilotonnes	142.94	Petajoules
COKING COAL	5,193.74	kilotonnes	0.0275	Petajoules/kilotonnes	142.94	Petajoules
<b>REFINING</b>					4,405.26	Petajoules
CRUDE OIL AND NGL	115,506.38	1000m*3	0.0363	Petajoules/1000m*3	4,192.83	Petajoules
OTHERS(FEED-STOCK)	5,695.08	1000m*3	0.0373	Petajoules/1000m*3	212.43	Petajoules
ELECTRICITY						
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (NATIONAL,PUBLIC UTILITIES)</b>						
COAL	44,643.60	kilotonnes	0.0207	Petajoules/kilotonnes	926.00	Petajoules
DIESEL OIL	97.98	1000m*3	0.0367	Petajoules/1000m*3	3.60	Petajoules
FUEL OIL	2,575.56	1000m*3	0.0396	Petajoules/1000m*3	102.10	Petajoules
NATURAL GAS	6,520.77	1000000m*3	0.0343	Petajoules/1000000m*3	223.54	Petajoules
HYDRO POWER	319,101.69	GWh	0.0036	Petajoules/GWh	1,137.39	Petajoules
NUCLEAR POWER	75,525.51	GWh	0.0109	Petajoules/GWh	823.91	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	120.00	GWh	0.0036	Petajoules/GWh	0.43	Petajoules
<b>POWER GENERATION (PRIVATE, AUTO PRODUCERS)</b>						
COAL	4.00	kilotonnes	0.0207	Petajoules/kilotonnes	0.08	Petajoules
COKE OVEN GAS	105.86	1000000m*3	0.0177	Petajoules/1000000m*3	1.87	Petajoules
BLAST FURNACE GAS	100.56	1000000m*3	0.0177	Petajoules/1000000m*3	1.78	Petajoules
REFINERY GAS	266.88	1000m*3	0.0396	Petajoules/1000m*3	10.58	Petajoules
DIESEL OIL	33.95	1000m*3	0.0368	Petajoules/1000m*3	1.25	Petajoules
FUEL OIL	65.49	1000m*3	0.0397	Petajoules/1000m*3	2.60	Petajoules
NATURAL GAS	1,547.78	1000000m*3	0.0343	Petajoules/1000000m*3	53.06	Petajoules
HYDRO POWER	31,284.23	GWh	0.0036	Petajoules/GWh	111.51	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	80.00	GWh	0.0036	Petajoules/GWh	0.29	Petajoules
OTHERS(WASTE WOOD, ETC.)	2,696.81	kilotonnes	0.0118	Petajoules/kilotonnes	31.71	Petajoules
<b>TRANSFORMATION SECTOR (OUTPUT)</b>					6,664.21	Petajoules
<b>COAL TRANSFORMATION</b>					139.51	Petajoules
COKE	3,131.95	kilotonnes	0.0274	Petajoules/kilotonnes	85.78	Petajoules
COKE OVEN GAS	1,558.57	1000000m*3	0.0177	Petajoules/1000000m*3	27.55	Petajoules
<b>GAS RECOVERING</b>						
BLAST FURNACE GAS	1,480.64	kilotonnes	0.0177	Petajoules/kilotonnes	26.18	Petajoules
<b>REFINING</b>					4,362.43	Petajoules
REFINERY GAS	7,710.52	1000m*3	0.0396	Petajoules/1000m*3	305.67	Petajoules
LPG	3,710.18	1000m*3	0.0253	Petajoules/1000m*3	93.91	Petajoules
NAPHTHA	5,213.66	1000m*3	0.0334	Petajoules/1000m*3	174.20	Petajoules
MOGAS	46,351.04	1000m*3	0.0329	Petajoules/1000m*3	1,526.20	Petajoules
JET FUEL	5,114.83	1000m*3	0.0341	Petajoules/1000m*3	174.59	Petajoules
KEROSENE	1,862.08	1000m*3	0.0358	Petajoules/1000m*3	66.65	Petajoules
DIESEL OIL	34,038.13	1000m*3	0.0367	Petajoules/1000m*3	1,250.77	Petajoules
FUEL OIL	7,351.98	1000m*3	0.0396	Petajoules/1000m*3	291.46	Petajoules
OTHER PETROLEUM PRODUCTS	12,001.71	1000m*3	0.0399	Petajoules/1000m*3	478.98	Petajoules
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (NATIONAL,PUBLIC UTILITIES)</b>						
THERMAL	157,869.75	GWh	0.0036	Petajoules/GWh	568.33	Petajoules
HYDRO POWER	319,101.69	GWh	0.0036	Petajoules/GWh	1,137.39	Petajoules
NUCLEAR POWER	75,525.51	GWh	0.0036	Petajoules/GWh	271.89	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	120.00	GWh	0.0036	Petajoules/GWh	0.43	Petajoules
HEAT		kilotonnes		Petajoules/kilotonnes		Petajoules
<b>POWER GENERATION (PRIVATE, AUTO PRODUCERS)</b>						
THERMAL	16,461.48	GWh	0.0036	Petajoules/GWh	59.26	Petajoules
HYDRO POWER	31,284.23	GWh	0.0036	Petajoules/GWh	111.51	Petajoules
OTHERS(WIND,TIDE,PHOTOV.)	80.00	GWh	0.0036	Petajoules/GWh	0.29	Petajoules
HEAT	12,788.36	kilotonnes	0.0028	Petajoules/kilotonnes	35.17	Petajoules
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COAL	146.17	kilotonnes	0.0257	Petajoules/kilotonnes	3.75	Petajoules
REFINERY GAS	7,443.64	1000m*3	0.0396	Petajoules/1000m*3	295.09	Petajoules
LPG	119.00	1000m*3	0.0243	Petajoules/1000m*3	2.89	Petajoules
NAPHTHA	6.40	1000m*3	0.0328	Petajoules/1000m*3	0.21	Petajoules
MOGAS	1.53	1000m*3	0.0327	Petajoules/1000m*3	0.05	Petajoules
DIESEL OIL	261.01	1000m*3	0.0367	Petajoules/1000m*3	9.59	Petajoules
FUEL OIL	789.36	1000m*3	0.0396	Petajoules/1000m*3	31.29	Petajoules
OTHER PETROLEUM PRODUCTS	2,670.96	1000m*3	0.0403	Petajoules/1000m*3	107.53	Petajoules
NATURAL GAS	15,462.90	1000000m*3	0.0341	Petajoules/1000000m*3	527.56	Petajoules
ELECTRICITY	59,612.22	GWh	0.0036	Petajoules/GWh	214.60	Petajoules

Original Table (Energy Demand and Supply) of Canada in 2002 (Continued)

Year:2002

Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>TOTAL LOSSES AND OWN USE</b>					1,192.56	Petajoules
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
HARD COAL	1,533.30	kilotonnes	0.0268	Petajoules/kilotonnes	41.04	Petajoules
STEAM COAL	1,533.30	kilotonnes	0.0268	Petajoules/kilotonnes	41.04	Petajoules
ANTHRACITE	280.00	kilotonnes	0.0263	Petajoules/kilotonnes	7.37	Petajoules
LIGNITE	15.00	kilotonnes	0.0143	Petajoules/kilotonnes	0.21	Petajoules
COKE	2,466.11	kilotonnes	0.0274	Petajoules/kilotonnes	67.54	Petajoules
COKE OVEN GAS	1,452.71	1000000m*3	0.0177	Petajoules/1000000m*3	25.68	Petajoules
BLAST FURNACE GAS	1,307.44	1000000m*3	0.0177	Petajoules/1000000m*3	23.11	Petajoules
LPG	17,991.06	1000m*3	0.0203	Petajoules/1000m*3	364.54	Petajoules
NAPHTHA	4,632.60	1000m*3	0.0334	Petajoules/1000m*3	154.78	Petajoules
MOGAS	39,988.03	1000m*3	0.0329	Petajoules/1000m*3	1,316.69	Petajoules
JET FUEL	6,250.79	1000m*3	0.0341	Petajoules/1000m*3	213.36	Petajoules
KEROSENE	381.29	1000m*3	0.0358	Petajoules/1000m*3	13.65	Petajoules
DIESEL OIL	27,021.77	1000m*3	0.0367	Petajoules/1000m*3	992.94	Petajoules
FUEL OIL	3,729.52	1000m*3	0.0396	Petajoules/1000m*3	147.85	Petajoules
OTHER PETROLEUM PRODUCTS	4,489.11	1000m*3	0.0386	Petajoules/1000m*3	173.42	Petajoules
NATURAL GAS	65,817.02	1000000m*3	0.0343	Petajoules/1000000m*3	2,256.27	Petajoules
SOLAR	157.00	GWh	0.0036	Petajoules/GWh	0.57	Petajoules
OTHER COMMERCIAL	37,606.81	kilotonnes	0.0118	Petajoules/kilotonnes	442.20	Petajoules
ELECTRICITY	512,713.06	GWh	0.0036	Petajoules/GWh	1,845.77	Petajoules
HEAT	12,788.36	kilotonnes	0.0028	Petajoules/kilotonnes	35.17	Petajoules
<b>TOTAL</b>					8,122.16	Petajoules
<b>AGRICULTURE</b>						
LPG	249.04	1000m*3	0.0243	Petajoules/1000m*3	6.04	Petajoules
KEROSENE	10.32	1000m*3	0.0359	Petajoules/1000m*3	0.37	Petajoules
DIESEL OIL	2,294.93	1000m*3	0.0367	Petajoules/1000m*3	84.33	Petajoules
FUEL OIL	36.33	1000m*3	0.0396	Petajoules/1000m*3	1.44	Petajoules
OTHER PETROLEUM PRODUCTS	35.80	1000m*3	0.0372	Petajoules/1000m*3	1.33	Petajoules
NATURAL GAS	586.87	1000000m*3	0.0343	Petajoules/1000000m*3	20.12	Petajoules
ELECTRICITY	9,364.17	GWh	0.0036	Petajoules/GWh	33.71	Petajoules
<b>TOTAL</b>					147.34	Petajoules
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	259.60	kilotonnes	0.0223	Petajoules/kilotonnes	5.78	Petajoules
LPG	1,858.87	1000m*3	0.0243	Petajoules/1000m*3	45.08	Petajoules
KEROSENE	351.75	1000m*3	0.0358	Petajoules/1000m*3	12.59	Petajoules
DIESEL OIL	8,983.45	1000m*3	0.0367	Petajoules/1000m*3	330.11	Petajoules
FUEL OIL	665.95	1000m*3	0.0396	Petajoules/1000m*3	26.40	Petajoules
OTHER PETROLEUM PRODUCTS	1,756.30	1000m*3	0.0378	Petajoules/1000m*3	66.36	Petajoules
NATURAL GAS	30,805.93	1000000m*3	0.0343	Petajoules/1000000m*3	1,056.06	Petajoules
SOLAR	120.00	GWh	0.0036	Petajoules/GWh	0.43	Petajoules
OTHER COMMERCIAL	5,352.29	kilotonnes	0.0144	Petajoules/kilotonnes	77.07	Petajoules
ELECTRICITY	272,289.16	GWh	0.0036	Petajoules/GWh	980.24	Petajoules
<b>TOTAL</b>					2,600.12	Petajoules
<b>OTHERS</b>						
<b>TOTAL</b>						
<b>INDUSTRY</b>						
HARD COAL	1,536.00	kilotonnes	0.0268	Petajoules/kilotonnes	41.11	Petajoules
STEAM COAL	1,536.00	kilotonnes	0.0268	Petajoules/kilotonnes	41.11	Petajoules
ANTHRACITE	280.00	kilotonnes	0.0263	Petajoules/kilotonnes	7.37	Petajoules
LIGNITE	15.00	kilotonnes	0.0143	Petajoules/kilotonnes	0.21	Petajoules
COKE	2,466.11	kilotonnes	0.0274	Petajoules/kilotonnes	67.54	Petajoules
COKE OVEN GAS	1,452.71	1000000m*3	0.0177	Petajoules/1000000m*3	25.68	Petajoules
BLAST FURNACE GAS	1,307.44	1000000m*3	0.0177	Petajoules/1000000m*3	23.11	Petajoules
LPG	15,397.80	1000m*3	0.0196	Petajoules/1000m*3	301.65	Petajoules
NAPHTHA	4,632.60	1000m*3	0.0334	Petajoules/1000m*3	154.78	Petajoules
KEROSENE	19.21	1000m*3	0.0359	Petajoules/1000m*3	0.69	Petajoules
DIESEL OIL	3,214.89	1000m*3	0.0367	Petajoules/1000m*3	118.13	Petajoules
FUEL OIL	2,229.40	1000m*3	0.0396	Petajoules/1000m*3	88.38	Petajoules
OTHER PETROLEUM PRODUCTS	2,323.03	1000m*3	0.0398	Petajoules/1000m*3	92.37	Petajoules
NATURAL GAS	28,803.07	1000000m*3	0.0343	Petajoules/1000000m*3	987.40	Petajoules
SOLAR	37.00	GWh	0.0036	Petajoules/GWh	0.13	Petajoules
OTHER COMMERCIAL	32,254.52	kilotonnes	0.0113	Petajoules/kilotonnes	365.13	Petajoules
ELECTRICITY	227,050.28	GWh	0.0036	Petajoules/GWh	817.38	Petajoules
HEAT	12,788.36	kilotonnes	0.0028	Petajoules/kilotonnes	35.17	Petajoules
<b>TOTAL</b>					3,126.24	Petajoules
<b>TRANSPORT</b>						
LPG	485.35	1000m*3	0.0243	Petajoules/1000m*3	11.77	Petajoules
MOGAS	39,988.03	1000m*3	0.0329	Petajoules/1000m*3	1,316.69	Petajoules
JET FUEL	6,250.79	1000m*3	0.0341	Petajoules/1000m*3	213.36	Petajoules
DIESEL OIL	12,528.49	1000m*3	0.0367	Petajoules/1000m*3	460.37	Petajoules
FUEL OIL	797.84	1000m*3	0.0396	Petajoules/1000m*3	31.63	Petajoules
OTHER PETRO. PRODUCTS	373.98	1000m*3	0.0357	Petajoules/1000m*3	13.36	Petajoules
NATURAL GAS	5,621.13	1000000m*3	0.0343	Petajoules/1000000m*3	192.70	Petajoules
ELECTRICITY	4,009.44	GWh	0.0036	Petajoules/GWh	14.43	Petajoules
<b>TOTAL</b>					2,254.31	Petajoules
<b>NON-ENERGY</b>	263.30	kilotonnes	0.0277	Petajoules/kilotonnes	7.30	Petajoules

## Original Table (Energy Demand and Supply) of Canada in 2002 (Continued)

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	33336	MW
COAL		
OIL		
GAS		
HYDRO POWER	62722	MW
NUCLEAR POWER	15857	MW
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)	34	MW
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL	0	kilotonnes
OIL	102.28	1000m*3
GAS	714.31	1000000m*3
OTHERS (BIOMASS, MUNICIPAL WASTE)		

## REFINING CAPACITY

At the time of 2002

	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 2002  
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

Original Table (Disaggregated Final Energy Demand) of Canada in 2002

2002						
Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>1.1 IRON AND STEEL (*1)</b>						
COKE						
COKE OVEN GAS	1,452.70	Mm <sup>3</sup>	0.0177	PJ/Mm <sup>3</sup>	25.70	PJ
BLAST FURNACE GAS	1,307.40	Mm <sup>3</sup>	0.0177	PJ/Mm <sup>3</sup>	23.10	PJ
DIESEL OIL	18.60	1000M3	0.0380	PJ/1000M3	0.70	PJ
FUEL OIL	173.20	1000M3	0.0399	PJ/1000M3	6.90	PJ
NATURAL GAS	1,872.50	1000M3	0.0343	PJ/1000M3	64.20	PJ
ELECTRICITY	11,474.20	GWH	0.0036	PJ/GWH	41.30	PJ
TOTAL					222.00	PJ
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
LPG	14,575.30	1000M3	0.0185	PJ/1000M3	269.80	PJ
NAPHTHA	4,632.60	1000M3	0.0334	PJ/1000M3	154.80	PJ
DIESEL OIL	19.00	1000M3	0.0345	PJ/1000M3	0.70	PJ
FUEL OIL	38.50	1000M3	0.0394	PJ/1000M3	1.50	PJ
NATURAL GAS	7,186.90	1000M3	0.0343	PJ/1000M3	246.40	PJ
ELECTRICITY	18,676.90	GWH	0.0036	PJ/GWH	67.20	PJ
HEAT	3,708.40	KT	0.0028	PJ/KT	10.20	PJ
TOTAL					740.40	PJ
<b>1.3 NON-FERROUS METALS (*3)</b>						
COKE	36.10	KT	0.0274	PJ/KT	1.00	PJ
DIESEL OIL	1.80	1000M3	0.0319	PJ/1000M3	0.10	PJ
FUEL OIL	169.30	1000M3	0.0400	PJ/1000M3	6.70	PJ
OTHER PETROLEUM PRODUCTS	1,242.70	1000M3	0.0403	PJ/1000M3	50.00	PJ
NATURAL GAS	912.40	1000M3	0.0343	PJ/1000M3	31.30	PJ
ELECTRICITY	56,383.30	GWH	0.0036	PJ/GWH	203.00	PJ
HEAT		KT			292.10	PJ
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
COKE	11.50	KT	0.0283	PJ/KT	0.30	PJ
DIESEL OIL	3.40	1000M3	0.0323	PJ/1000M3	0.10	PJ
FUEL OIL	66.70	1000M3	0.0392	PJ/1000M3	2.60	PJ
OTHER PETROLEUM PRODUCTS	279.90	1000M3	0.0400	PJ/1000M3	11.30	PJ
NATURAL GAS	302.90	1000M3	0.0342	PJ/1000M3	10.40	PJ
ELECTRICITY	2,035.60	GWH	0.0036	PJ/GWH	7.30	PJ
TOTAL					32.00	PJ
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
DIESEL OIL	124.80	1000M3	0.0368	PJ/1000M3	4.60	PJ
NATURAL GAS	2,785.70	1000M3	0.0343	PJ/1000M3	95.50	PJ
ELECTRICITY	58,635.00	GWH	0.0036	PJ/GWH	211.10	PJ
HEAT	5,808.40	KT	0.0027	PJ/KT	16.00	PJ
TOTAL					372.60	PJ
<b>1.6 OTHER INDUSTRIES (*6)</b>						
HARD COAL	1,273.70	KT	0.0277	PJ/KT	35.30	PJ
STEAM COAL	1,273.70	KT	0.0277	PJ/KT	35.30	PJ
ANTHRACITE	273.50	KT	0.0263	PJ/KT	7.20	PJ
LIGNITE	132.00	KT	0.0143	PJ/KT	1.90	PJ
COKE	224.90	KT	0.0275	PJ/KT	6.20	PJ
LPG	822.50	1000M3	0.0388	PJ/1000M3	31.90	PJ
NAPHTHA		1000M3		PJ/1000M3		PJ
DIESEL OIL	3,047.30	1000M3	0.0367	PJ/1000M3	112.00	PJ
FUEL OIL	635.60	1000M3	0.0396	PJ/1000M3	25.20	PJ
OTHER PETROLEUM PRODUCTS	800.50	1000M3	-0.0120	PJ/1000M3	-9.60	PJ
NATURAL GAS	15,742.70	1000M3	0.0343	PJ/1000M3	539.70	PJ
OTHER COMMERCIAL	32,254.50	KT	0.0113	PJ/KT	365.10	PJ
ELECTRICITY	79,845.30	GWH	0.0036	PJ/GWH	287.40	PJ
HEAT	3,271.60	KT	0.0027	PJ/KT	9.00	PJ
TOTAL					1,411.30	PJ
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
JET FUEL	6,250.80	1000M3	0.0341	PJ/1000M3	213.40	PJ
OTHER PETRO. PRODUCTS	103.60	1000M3	0.0319	PJ/1000M3	3.30	PJ
TOTAL					216.70	PJ
<b>2.2 ROAD</b>						
LPG	485.40	1000M3	0.0242	PJ/1000M3	11.80	PJ
MOGAS	39,988.00	1000M3	0.0329	PJ/1000M3	1,316.70	PJ
DIESEL OIL	9,611.20	1000M3	0.0368	PJ/1000M3	353.20	PJ
NATURAL GAS	45.80	1000M3	0.0338	PJ/1000M3	1.60	PJ
ELECTRICITY	905.30	GWH	0.0036	PJ/GWH	3.30	PJ
TOTAL					1,686.60	PJ
<b>2.3 RAIL</b>						
DIESEL OIL	1,914.90	1000M3	0.0367	PJ/1000M3	70.40	PJ

Original Table (Disaggregated Final Energy Demand) of Canada in 2002 (Continued)

2002						
Canada	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL					70.40	PJ
<b>2.4 INTERNAL NAVIGATION</b>						
DIESEL OIL	991.50	1000M3	0.0367	PJ/1000M3	36.40	PJ
FUEL OIL	797.80	1000M3	0.0397	PJ/1000M3	31.60	PJ
TOTAL					68.00	PJ
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
COAL	132.94	KT	0.0248	PJ/KT	3.30	PJ
LPG	1,317.00	1000M3	0.0260	PJ/1000M3	34.20	PJ
KEROSENE	142.90	1000M3	0.0361	PJ/1000M3	5.10	PJ
FUEL OIL	657.50	1000M3	0.0396	PJ/1000M3	26.10	PJ
OTHER PETROLEUM PRODUCTS	1,756.30	1000M3	0.0378	PJ/1000M3	66.40	PJ
NATURAL GAS	13,826.00	1000M3	0.0343	PJ/1000M3	474.00	PJ
ELECTRICITY	129,648.30	GWH	0.0036	PJ/GWH	466.70	PJ
HEAT	0.10	KT	3.0000	PJ/KT	0.30	PJ
TOTAL					1,299.30	PJ
<b>3.2 RESIDENTIAL</b>						
COAL	141.17	KT	0.0177	PJ/KT	2.50	PJ
LPG	450.10	1000M3	0.0243	PJ/1000M3	10.90	PJ
KEROSENE	208.90	1000M3	0.0358	PJ/1000M3	7.50	PJ
DIESEL OIL	2,909.00	1000M3	0.0368	PJ/1000M3	106.90	PJ
FUEL OIL	8.50	1000M3	0.0388	PJ/1000M3	0.30	PJ
NATURAL GAS	16,979.90	1000M3	0.0343	PJ/1000M3	582.10	PJ
OTHER COMMERCIAL	5,352.30	KT	0.0144	PJ/KT	77.10	PJ
ELECTRICITY	142,640.80	GWH	0.0036	PJ/GWH	513.50	PJ
TOTAL					1,300.80	PJ





## 3.4 Chile

## Energy Balance Table of Chile in 2001

	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
<b>1 Indigenous Production</b>	383	-	268	-	-	-	-	-	-
<b>2 Import</b>	1,884	43	9,988	1,518	366	-	4	7	549
<b>3 Export</b>	-	-	-	-1,292	-346	-293	-58	-	-210
<b>4 International Marine Bunkers</b>	-	-	-	-965	-	-	-	-	-
<b>5 Stock Changes</b>	127	-23	-228	199	131	-98	-34	5	-37
<b>6 Total Primary Energy Supply</b>	2,394	20	10,028	-540	151	-391	-89	12	302
<b>7 Public Electricity</b>	-1,259	-130	-	-68	-	-	-	-	-43
<b>8 Autoproducers of Electricity</b>	-11	-	-	-121	-	-	-	-	-24
<b>9 Gas Processing</b>	-474	-82	-	-1	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-10,028	9,941	2,165	397	739	176	3,931
<b>11 Coal Transformation</b>	-	480	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-57	-	-264	-	-	-	-	-14
<b>13 Discrepancy</b>	0	76	0	966	0	0	0	0	0
<b>14 Total Final Energy Consumption</b>	650	306	-	9,913	2,316	6	650	189	4,151
<b>15 Industry Sector</b>	551	301	-	2,077	-	6	-	47	1,358
<b>16 Transport Sector</b>	-	-	-	5,399	2,316	-	650	-	2,433
<b>17 Other Sector</b>	100	5	-	1,368	-	-	-	142	53
<b>18 Agriculture</b>	99	5	-	142	-	-	-	-	2
<b>19 Residential &amp; Commercial</b>	1	-	-	1,226	-	-	-	142	51
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	104	-	-	-	-	-

## 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
<b>1 Indigenous Production</b>	288	-	223	-	-	-	-	-	-
<b>2 Import</b>	1,970	44	9,885	2,101	486	-	36	-	655
<b>3 Export</b>	-	-	-	-939	-383	-27	-3	-	-160
<b>4 International Marine Bunkers</b>	-	-	-	-934	-	-	-	-	-
<b>5 Stock Changes</b>	155	27	-136	-34	-46	2	-30	13	-48
<b>6 Total Primary Energy Supply</b>	2,413	71	9,971	194	58	-26	4	13	447
<b>7 Public Electricity</b>	-1,447	-233	-	-35	-	-	-	-	-29
<b>8 Autoproducers of Electricity</b>	-11	-	-	-108	-	-	-	-	-29
<b>9 Gas Processing</b>	-445	-169	-	0	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-9,971	9,235	2,244	32	647	161	3,928
<b>11 Coal Transformation</b>	-	571	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-57	-	-277	-	-	-	-	-12
<b>13 Discrepancy</b>	0	121	0	933	0	0	0	0	0
<b>14 Total Final Energy Consumption</b>	510	304	-	9,943	2,302	6	651	174	4,305
<b>15 Industry Sector</b>	401	299	-	1,958	-	6	-	39	1,291
<b>16 Transport Sector</b>	-	-	-	5,578	2,302	-	651	-	2,625
<b>17 Other Sector</b>	109	5	-	1,330	-	-	-	135	76
<b>18 Agriculture</b>	102	5	-	161	-	-	-	-	6
<b>19 Residential &amp; Commercial</b>	7	-	-	1,169	-	-	-	135	70
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	143	-	-	-	-	-

Energy Balance Table of Chile in 2001 (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
-	-	-	-	2,170	-	1,813	-	-	5,775	-	-	10,409
-	593	-	-	4,393	-	-	-	-	-	119	-	17,946
-244	-142	-	-	-	-	-	-	-	-1,468	-	-	-2,760
-965	-	-	-	-	-	-	-	-	-	-	-	-965
179	53	-	-	-413	-	-	-	-	-11	-	-	-349
-1,030	504	-	-	6,151	-	1,813	-	-	4,296	119	-	24,280
-24	-	-	-	-2,149	-	-1,813	-	-	-166	3,396	-	-2,190
-95	-	-2	-	-88	-	-51	-	-	-460	262	-	-469
-	-1	-	-	-2,303	132	-	-	-	-52	-13	-	-2,793
1,570	641	219	104	-429	-	-	-	-	-	-34	-	-550
-	-	-	-	-	-	-	-	-	-	-1	-	479
-34	-	-216	-	-	-15	-	-	-	-3	-342	-	-681
965	0	1	-	-63	7	51	-	-	189	0	-	1,227
1,353	1,143	1	104	1,120	125	-	-	-	3,803	3,386	-	19,304
550	116	1	-	704	87	-	-	-	345	2,018	-	6,083
-	-	-	-	10	-	-	-	-	-	20	-	5,429
145	1,028	-	-	406	38	-	-	-	3,411	1,348	-	6,675
138	2	-	-	29	-	-	-	-	563	321	-	1,159
7	1,026	-	-	377	38	-	-	-	2,848	1,027	-	5,517
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	104	-	-	-	-	-	-	-	-	104

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	120	-	-	-	-	-	-	-2,857
1,364	479	238	143	-563	-	-	-	-	-	-35	-	-1,334
-	-	-	-	-	-	-	-	-	-	-	-	571
-30	-	-235	-	-	-2	-	-	-	-	-355	-	-691
934	-1	0	-	-65	-6	0	-	-	344	-13	-	1,314
1,248	1,113	1	143	1,226	112	-	-	-	3,934	3,508	-	19,536
471	151	1	-	748	82	-	-	-	-	2,052	-	5,540
-	-	-	-	23	-	-	-	-	-	18	-	5,619
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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	10,971	9,331	9,847	9,782	10,523	10,222	11,987	13,367	14,260
Indigenous Production	7,043	6,841	7,122	7,157	7,083	7,089	7,287	7,511	7,763
Import	4,125	2,677	2,887	2,792	3,624	3,337	4,923	6,246	7,117
Export	-	-29	-2	-	-	-17	-	-118	-158
Final Energy Consumption	8,271	8,058	8,414	8,579	8,782	9,197	9,916	10,471	11,022
Industry	2,758	2,537	2,724	2,809	2,895	2,935	3,158	3,312	3,203
Transport	2,303	2,306	2,293	2,264	2,381	2,558	2,868	3,108	3,411
Residential & Commercial	2,427	2,496	2,587	2,643	2,789	2,908	3,093	3,274	3,430
Agriculture	626	665	712	696	668	680	673	587	796
<b>Coal, Coal Products</b>									
Primary Energy Supply	1,393	877	1,070	1,217	1,307	1,353	1,613	2,344	2,597
Indigenous Production	743	659	796	939	994	1,042	1,280	1,295	1,451
Import	650	218	273	278	313	311	333	1,048	1,145
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-600	-485	-674	-592	-532	-547	-975	-1,508	-1,776
Power Generation	-439	-345	-538	-473	-429	-440	-865	-1,403	-1,649
Final Energy Consumption	498	446	574	639	641	663	724	741	734
Industry	479	431	557	623	630	643	699	716	674
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	17	13	14	12	7	16	20	20	18
Agriculture	-	-	-	-	-	-	1	1	41
<b>Crude Oil</b>									
Primary Energy Supply	4,919	3,795	3,835	3,786	4,233	4,139	5,319	5,638	6,307
Indigenous Production	1,568	1,855	1,805	1,664	1,556	1,380	1,107	990	882
Import	3,351	1,940	2,030	2,122	2,677	2,759	4,212	4,649	5,425
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-4,982	-3,800	-3,835	-3,834	-3,944	-4,304	-4,971	-5,907	-6,151
Petroleum Refineries	-4,982	-3,800	-3,835	-3,834	-3,944	-4,304	-4,971	-5,907	-6,151
<b>Petroleum Products</b>									
Primary Energy Supply	-73	332	421	226	451	63	155	159	-73
Import	124	519	584	392	635	267	378	549	547
Export	-	-29	-2	-	-	-17	-	-118	-158
Transformation Sector	4,387	3,588	3,654	3,680	3,960	4,261	5,106	6,048	6,004
Power Generation	-612	-442	-356	-292	-283	-272	-267	-450	-489
Petroleum Refineries	5,180	4,148	4,133	4,083	4,364	4,662	5,512	6,551	6,654
Final Energy Consumption	4,960	4,530	4,566	4,571	4,644	4,863	5,355	5,793	6,134
Industry	1,652	1,445	1,448	1,439	1,469	1,440	1,541	1,608	1,525
Transport	2,288	2,290	2,276	2,247	2,365	2,540	2,852	3,093	3,390
Residential & Commercial	760	671	673	649	698	716	780	844	889
Agriculture	106	72	74	72	69	54	62	63	149
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	2,308	1,505	1,530	1,436	1,245	1,207	1,404	1,874	1,982
Indigenous Production	2,308	1,505	1,530	1,436	1,245	1,207	1,404	1,874	1,982
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-411	-467	-478	-483	-424	-405	-633	-1,110	-1,198
Power Generation	-39	-49	-54	-56	-61	-62	-66	-63	-63
Final Energy Consumption	218	229	241	235	248	250	272	260	268
Industry	68	57	63	61	64	73	83	67	63
Transport	-	-	-	-	-	-	-	-	6
Residential & Commercial	150	172	179	174	184	177	189	193	200
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	1,010	1,085	1,160	1,207	1,274	1,344	1,454	1,531	1,579
Thermal	379	317	358	317	302	304	468	706	808
Hydro	631	768	802	890	972	1,041	986	825	771
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	837	880	927	989	1,041	1,108	1,183	1,278	1,324
Industry	476	484	511	556	590	628	680	754	764
Transport	15	16	17	17	17	17	16	15	16
Residential & Commercial	271	297	312	329	346	369	391	418	433
Agriculture	76	83	87	88	88	94	96	91	112

Major Energy Indicators of Chile (Continued)

										ktoe		
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
14,742	15,307	15,257	17,210	18,001	20,169	21,383	20,593	23,993	25,569	24,280	25,274	
8,057	8,352	7,908	8,122	7,998	8,160	8,255	7,291	6,950	10,729	10,409	10,558	
7,272	7,573	7,982	9,843	10,790	12,720	14,013	14,309	18,116	18,688	17,946	18,558	
-16	-48	-3	-95	-57	-29	-140	-158	-286	-2,483	-2,760	-2,570	
11,943	13,101	13,394	14,194	15,019	16,362	18,124	18,590	18,701	19,634	19,304	19,536	
3,286	3,733	3,857	3,793	4,615	4,768	6,047	5,889	5,577	5,776	6,083	5,540	
3,553	3,834	4,243	4,667	5,128	5,419	5,817	6,252	6,363	6,634	5,429	5,619	
3,620	3,920	4,121	4,374	4,125	4,636	5,070	4,952	5,169	5,320	5,517	5,512	
1,160	1,319	930	950	880	1,026	764	953	1,089	1,398	1,159	1,348	
2,468	1,671	1,645	2,101	2,209	3,138	3,842	3,761	3,773	3,099	2,414	2,484	
1,468	1,081	901	786	690	668	694	626	323	243	383	288	
1,000	590	744	1,315	1,519	2,470	3,148	3,136	3,450	2,975	1,927	2,014	
-	-	-	-	-	-	-	-	-	-	-	-	
-1,224	-884	-955	-1,387	-1,577	-1,909	-2,807	-2,938	-3,339	-2,305	-1,534	-1,791	
-1,100	-756	-799	-1,234	-1,401	-2,134	-2,621	-2,767	-2,886	-2,082	-1,400	-1,691	
785	917	825	715	789	833	1,382	1,031	955	791	956	814	
684	819	758	653	748	746	1,194	917	815	660	852	700	
-	-	-	-	-	-	-	-	-	-	-	-	
17	25	6	9	7	8	13	5	6	3	1	7	
84	73	61	53	33	78	92	108	133	128	104	107	
6,367	6,708	6,936	7,665	8,035	8,214	8,764	9,457	9,759	10,001	10,028	9,971	
790	647	611	620	436	379	283	253	250	282	268	223	
5,577	6,060	6,325	7,045	7,599	7,835	8,481	9,204	9,509	9,978	9,988	9,885	
-	-	-	-	-	-	-	-	-	-	-	-	
-6,345	-6,534	-6,978	-7,442	-7,957	-8,276	-8,682	-9,412	-10,559	-10,217	-10,028	-9,971	
-6,345	-6,534	-6,978	-7,442	-7,957	-8,276	-8,682	-9,412	-10,366	-10,217	-10,028	-9,971	
108	305	281	799	943	1,734	1,538	974	887	393	-540	194	
695	922	913	1,483	1,672	2,415	2,384	1,969	1,960	1,958	1,518	2,101	
-16	-48	-3	-23	-	-	-101	-145	-286	-875	-1,292	-939	
6,190	6,468	6,947	7,230	7,632	7,922	8,589	9,256	9,080	10,430	9,487	8,815	
-375	-302	-355	-424	-524	-319	-613	-576	-890	-305	-189	-143	
6,733	6,960	7,511	7,859	8,399	8,568	9,474	10,170	10,481	10,874	9,941	9,235	
6,536	7,086	7,617	8,277	8,887	9,475	10,260	10,525	10,325	10,617	9,913	9,943	
1,493	1,601	1,728	1,698	1,991	2,155	2,623	2,444	2,162	2,121	2,077	1,958	
3,530	3,813	4,220	4,642	5,103	5,408	5,793	6,228	6,341	6,607	5,399	5,578	
954	1,114	1,184	1,252	1,275	1,098	1,336	1,154	1,260	1,267	1,226	1,169	
236	263	244	276	248	316	165	154	109	168	142	161	
1,677	1,864	1,839	1,953	1,749	1,926	1,916	1,073	4,149	5,427	6,151	6,203	
1,677	1,864	1,839	2,024	1,807	1,955	1,955	1,086	961	2,048	2,170	2,134	
-	-	-	-	-	-	-	-	3,187	3,674	4,393	4,403	
-	-	-	-72	-57	-29	-39	-13	-	-	-	-	
-981	-1,148	-1,078	-1,049	-1,134	-1,011	-749	-1,352	-1,589	-4,204	-4,851	-4,794	
-68	-69	-71	-74	-418	-75	-165	-808	-1,141	-1,653	-2,237	-1,986	
298	317	333	342	355	365	619	633	707	1,104	1,245	1,338	
82	92	102	106	109	114	355	371	408	729	791	831	
7	4	5	6	9	6	5	5	6	8	10	23	
209	220	225	229	238	245	259	257	271	338	415	401	
-	-	-	-	-	-	-	-	22	29	29	83	
1,716	1,922	2,064	2,173	2,409	2,647	2,864	3,053	3,301	3,500	3,657	3,755	
587	483	585	714	807	1,196	1,225	1,664	1,964	1,854	1,844	1,761	
1,129	1,439	1,479	1,459	1,603	1,451	1,640	1,389	1,337	1,646	1,813	1,994	
-	-	-	-	-	-	-	-	-	-	-	-	
1,450	1,652	1,742	1,856	2,074	2,311	2,513	2,882	2,982	3,147	3,386	3,508	
838	951	998	1,059	1,214	1,394	1,538	1,810	1,854	1,928	2,018	2,052	
17	17	18	19	17	5	18	18	17	19	20	18	
454	495	537	586	630	704	752	825	867	919	1,027	1,072	
142	190	188	192	214	196	205	229	245	280	321	366	

## Major Economic Indicators of Chile

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	11.15	11.67	11.86	12.05	12.24	12.45	12.66	12.88
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	29.71	26.85	28.99	31.05	32.79	34.95	37.50	41.47
Real Term (Billions of 1995 Price and 1995 PPP)	47.63	43.04	46.47	49.78	52.57	304.76	60.13	66.48
Nominal (Billions of Current USD)	27.57	19.77	19.23	16.49	17.72	20.69	24.15	27.55
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	2,665	2,300	2,445	2,577	2,678	2,808	2,963	3,221
Real Term (1995 Price and 1995 PPP)	4,273	3,688	3,920	4,132	4,293	4,501	4,750	5,163
Nominal (Current USD)	2,474	1,694	1,622	1,368	1,447	1,662	1,908	2,140
Nominal GDP & its Components (Billions of Current CLP) *1								
Gross Domestic Product	1,075.32	1,557.71	1,894.04	2,651.94	3,419.21	4,540.56	5,917.88	7,353.73
Household Final Consumption Expenditure, etc.	760.09	1,141.28	1,382.00	1,775.62	2,238.75	2,906.18	3,545.35	4,421.96
General Government Final Consumption Expenditure	133.89	221.00	274.00	355.80	430.17	494.10	613.34	741.79
Gross Fixed Capital Formation	178.98	187.50	235.04	446.72	586.02	881.61	1,201.54	1,733.48
Stock Change	47.07	-34.00	24.00	9.23	59.68	128.37	145.86	115.88
Exports of Goods and Services	245.39	374.00	459.00	746.45	994.63	1,374.30	2,045.60	2,638.80
Imports of Goods and Services	290.10	332.07	480.00	681.89	890.04	1,243.99	1,633.82	2,298.19
Real GDP & its Components (Billions of 1986 CLP) *1								
Gross Domestic Product	3,097.96	2,799.58	3,022.80	3,238.00	3,419.21	3,644.68	3,911.15	4,324.18
Household Final Consumption Expenditure, etc.	2,345.66	2,045.33	2,150.84	2,129.74	2,238.75	2,400.57	2,569.30	2,829.98
General Government Final Consumption Expenditure	442.45	413.20	426.68	425.55	430.17	419.09	434.14	450.46
Gross Fixed Capital Formation	696.68	437.78	477.18	572.19	586.02	713.26	814.21	1,058.46
Stock Change	111.93	-75.44	43.30	31.94	59.68	105.76	99.87	98.98
Exports of Goods and Services	824.28	791.54	844.60	903.43	994.63	1,061.68	1,184.36	1,375.17
Imports of Goods and Services	1,323.04	812.83	919.81	824.84	890.04	1,055.67	1,190.73	1,488.86
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	7.7	8.6	8.5	8.4	8.6	8.8	9.2	8.8
Industry	35.9	36.8	36.6	35.3	35.4	34.6	34.9	34.3
Services, etc.	56.4	54.6	54.9	51.8	51.7	51.6	50.8	50.7
Manufacturing Production Index (2000=100) *2	53.0	47.2	51.9	51.9	56.2	58.5	63.1	67.8
External Trade (Billions of Current USD) *1								
Exports, f.o.b	4.705	3.830	3.650	3.804	4.191	5.224	7.052	8.080
Imports, c.i.f.	5.797	3.085	3.574	3.072	3.436	4.396	5.292	7.144
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.764	0.986	0.362	0.884	1.092	1.309	2.210	1.483
Current Account	-1.971	-1.117	-2.111	-1.413	-1.191	-0.735	-0.231	-0.691
Overall Balance	1.321	-4.273	-2.001	-2.877	-3.187	-1.621	-1.256	0.519
Foreign Exchange Rate (CLP/USD) *1	39.0000	78.7883	98.4775	160.8600	192.9300	219.4067	245.0117	266.9542
Purchasing Power Parity (CLP/International Dollar) *1	39.0480	48.9767	52.1823	64.7134	78.8007	97.9097	115.3287	126.1484
Price Indices								
GDP Deflator (1986=100) *3	34.7	55.6	62.7	81.9	100.0	124.6	151.3	170.1
Home & Import Goods Price Index (2000=100) *2	7.1	12.0	14.9	21.4	25.6	30.6	32.4	37.3
Consumer Price Index (2000=100) *2	6.4	10.7	12.9	16.6	20.1	24.1	27.6	32.3
Growth Rate (%) *3								
Real GDP	8.15	-3.79	7.97	7.12	5.60	6.59	7.31	10.56
Population	1.51	1.57	1.59	1.61	1.64	1.67	1.69	1.71
Price								
Home & Import Goods Price Index (2000=100)	39.6	45.5	24.3	43.4	19.8	19.2	5.9	15.1
Consumer Price Index	35.1	27.3	19.9	29.5	20.6	19.9	14.7	17.0

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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
13.10	13.32	13.55	13.77	13.99	14.21	14.42	14.62	14.82	15.02	15.21	15.40	15.59
43.00	46.43	52.13	55.77	58.95	65.22	70.05	75.23	78.18	77.29	80.69	82.95	84.69
68.94	74.43	83.57	89.41	94.51	104.55	112.31	120.61	125.34	123.91	129.36	132.98	135.77
30.32	34.65	41.88	44.47	50.92	65.22	68.57	75.29	73.06	73.05	74.94	66.45	64.15
3,283	3,485	3,848	4,050	4,213	4,589	4,858	5,145	5,275	5,146	5,305	5,385	5,433
5,263	5,588	6,170	6,492	6,754	7,358	7,789	8,248	8,456	8,251	8,504	8,634	8,710
2,315	2,601	3,092	3,230	3,639	4,589	4,755	5,149	4,929	4,864	4,927	4,314	4,115
9,245.50	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	40,436.22	42,191.78	44,197.83
5,719.56	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	27,014.15
901.87	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	5,318.07
2,139.60	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	9,554.68
182.08	316.90	209.96	284.53	175.36	496.70	558.53	550.46	480.53	99.42	593.81	-313.54	639.71
3,200.92	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	15,858.92
2,898.52	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	14,187.70
4,484.07	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	8,831.65
2,892.01	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	5,763.94
454.20	470.44	496.75	518.17	528.22	550.27	567.09	601.02	624.11	639.59	657.50	675.25	689.43
1,085.10	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
134.45	144.79	152.04	226.46	142.46	371.37	355.22	375.11	363.19	56.32	268.12	-141.57	-148.65
1,493.67	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	4,234.22
1,575.35	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	4,181.21
9.3	8.8	8.8	7.2	7.2	6.8	6.4	5.8	5.9	5.9	6.0	6.2	6.2
33.6	33.4	32.5	32.7	32.4	31.7	31.5	31.3	30.6	31.8	31.9	31.7	31.7
50.6	51.0	50.9	51.6	51.5	51.3	51.4	45.2	45.7	46.0	45.6	45.6	45.6
68.4	72.0	80.6	82.4	84.5	88.6	91.9	96.4	96.5	96.5	100.0	101.9	102.6
8.372	8.941	10.007	9.198	11.604	16.024	15.657	17.902	16.323	17.162	19.210	18.466	18.340
7.742	8.207	10.183	11.134	11.820	15.900	17.823	19.662	19.880	15.988	18.507	17.814	17.093
1.284	1.485	0.722	-0.990	0.732	1.381	-1.072	-1.428	-2.040	2.427	2.119	1.844	2.256
-0.485	-0.098	-0.957	-2.555	-1.586	-1.350	-3.083	-3.660	-3.918	0.099	-0.898	-1.100	-0.885
2.323	1.257	2.547	0.428	3.151	1.139	2.594	3.318	-2.191	-0.747	0.317	-0.599	0.185
304.9033	349.2158	362.5758	404.1658	420.1767	396.7733	412.2667	419.2950	460.2875	508.7767	539.5875	634.9383	688.9363
149.4602	175.0762	193.1830	210.3834	229.2470	247.4853	247.5926	253.1688	258.9507	285.9330	289.9029	286.2317	288.7117
206.2	249.9	279.4	309.1	348.0	380.5	387.0	402.4	412.5	461.1	480.6	487.8	500.4
45.4	55.2	61.6	66.9	72.1	77.5	82.4	83.7	85.3	89.8	100.0	107.8	115.2
40.7	49.6	57.2	64.5	71.9	77.8	83.5	88.7	93.2	96.3	100.0	103.6	106.1
3.70	7.97	12.28	6.99	5.71	10.63	7.41	7.39	3.92	-1.14	4.40	2.80	2.10
1.74	1.69	1.69	1.67	1.62	1.54	1.47	1.41	1.37	1.32	1.29	1.26	1.21
21.8	21.5	11.7	8.6	7.7	7.6	6.2	1.6	1.9	5.2	11.4	7.8	6.8
26.0	21.8	15.4	12.7	11.4	8.2	7.4	6.1	5.1	3.3	3.8	3.6	2.5



## Original Table (Energy Demand and Supply) of Chile in 2002

Year:2002

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	433.46	KT	0.0278	TJ/T	12.07	PJ
HARD COAL	433.46	KT	0.0278	TJ/T	12.07	PJ
STEAM COAL	347.08	KT	0.0235	TJ/T	8.14	PJ
SUBBITUMINOUS COAL	23.19	KT	0.1691	TJ/T	3.92	PJ
CRUDE OIL	252.13	1.000m3	0.0370	TJ/m3	9.32	PJ
NATURAL GAS	2,539.02	1.000.000m3	0.0352	PJ/m3	89.35	PJ
HYDRO POWER	23,187.00	GWH	0.0036	PJ/GWH	83.47	PJ
OTHERS	19,828.04	KT	0.0125	TJ/T	247.85	PJ
TOTAL PRODUCTION					442.05	PJ
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						PJ
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						PJ
<b>STOCK CHANGE</b>						
COAL	233.45	KT	0.0278	TJ/T	6.50	PJ
HARD COAL	233.45	KT	0.0278	TJ/T	6.50	PJ
COKE	40.29	KT	0.0278	TJ/T	1.12	PJ
CRUDE OIL AND NGL/CONDENSATE	-154.21	1.000m3	0.0370	TJ/m3	-5.70	PJ
CRUDE OIL	-154.21	1.000m3	0.0370	TJ/m3	-5.70	PJ
LPG	132.33	1.000m3	0.0265	TJ/m3	3.51	PJ
NAPHTHA	2.24	1.000m3	0.0320	TJ/m3	0.07	PJ
MOGAS	-58.75	1.000m3	0.0325	TJ/m3	-1.91	PJ
JET FUEL	-31.46	1.000m3	0.0358	TJ/m3	-1.13	PJ
AVGAS	-3.74	1.000m3	0.0309	TJ/m3	-0.12	PJ
KEROSENE	16.34	1.000m3	0.0338	TJ/m3	0.55	PJ
DIESEL OIL	-55.70	1.000m3	0.0364	TJ/m3	-2.03	PJ
FUEL OIL	-9.84	1.000m3	0.0392	TJ/m3	-0.39	PJ
NATURAL GAS AND LNG	-396.55	1.000.000m3	0.0352	PJ/m3	-13.95	PJ
NATURAL GAS	-396.55	1.000.000m3	0.0352	PJ/m3	-13.95	PJ
OTHERS	-30.80	KT	0.0227	TJ/T	-0.70	PJ
TOTAL STOCK CHANGE					-14.16	PJ
<b>IMPORTS</b>						
COAL	2,962.79	KT	0.0278	TJ/T	82.47	PJ
HARD COAL	2,962.79	KT	0.0278	TJ/T	82.47	PJ
STEAM COAL	1,968.16	KT	0.0235	TJ/T	46.18	PJ
COKING COAL	1,342.74	KT	0.0264	TJ/T	35.46	PJ
COKE	36.57	KT	0.0278	TJ/T	1.02	PJ
BRIQUETTES	43.62	KT	0.0189	TJ/T	0.82	PJ
CRUDE OIL AND NGL/CONDENSATE	11,198.64	1.000m3	0.0370	TJ/m3	413.85	PJ
CRUDE OIL	11,198.64	1.000m3	0.0370	TJ/m3	413.85	PJ
LPG	1,139.98	1.000m3	0.0265	TJ/m3	30.22	PJ
MOGAS	626.68	1.000m3	0.0325	TJ/m3	20.36	PJ
JET FUEL	42.14	1.000m3	0.0358	TJ/m3	1.51	PJ
DIESEL OIL	753.55	1.000m3	0.0364	TJ/m3	27.44	PJ
FUEL OIL	215.44	1.000m3	0.0392	TJ/m3	8.44	PJ
NATURAL GAS AND LNG	5,238.21	1.000.000m3	0.0352	PJ/m3	184.33	PJ
NATURAL GAS	5,238.21	1.000.000m3	0.0352	PJ/m3	184.33	PJ
ELECTRICITY	1,812.78	GWH	0.0036	PJ/GWH	6.53	PJ
TOTAL IMPORTS					776.98	PJ
<b>EXPORTS</b>						
LPG	269.32	1.000m3	0.0265	TJ/m3	7.14	PJ
NAPHTHA	35.77	1.000m3	0.0320	TJ/m3	1.15	PJ
MOGAS	493.27	1.000m3	0.0325	TJ/m3	16.03	PJ
JET FUEL	3.00	1.000m3	0.0358	TJ/m3	0.11	PJ
DIESEL OIL	183.62	1.000m3	0.0364	TJ/m3	6.68	PJ
FUEL OIL	209.25	1.000m3	0.0392	TJ/m3	8.20	PJ
OTHERS	252.93	KT	0.2700	TJ/KT	68.29	PJ
TOTAL EXPORTS					107.59	PJ
<b>INTERNATIONAL MARINE BUNKERS</b>	1,074.49	1.000m3	0.0364	TJ/m3	39.10	PJ
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					1,058.19	PJ
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	10,172.14	1.000m3	0.0410	TJ/m3	417.46	PJ
CRUDE OIL	10,172.14	1.000m3	0.0410	TJ/m3	417.46	PJ
NAPHTHA	275.97	1.000m3	0.0308	TJ/m3	8.49	PJ
NATURAL GAS AND LNG	670.30	1.000.000m3	0.0352	PJ/m3	23.59	PJ
NATURAL GAS	670.30	1.000.000m3	0.0352	PJ/m3	23.59	PJ
ELECTRICITY	408.14	GWH	0.0036	PJ/GWH	1.47	PJ
<b>GAS PROCESSING</b>						
COAL	668.76	KT	0.0278	TJ/T	18.62	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
REFINERY GAS	0.30	1.000m3	0.0265	TJ/m3	0.01	PJ
NATURAL GAS	2,811.81	1.000.000m3	0.0352	PJ/m3	98.95	PJ
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	2,176.73	KT	0.0278	TJ/T	60.59	PJ
HARD COAL	2,176.73	KT	0.0278	TJ/T	60.59	PJ
COKE	350.03	KT	0.0278	TJ/T	9.74	PJ

Original Table (Energy Demand and Supply) of Chile in 2002 (Continued)

Year:2002

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
DIESEL OIL	33.23	1.000m3	0.0364	TJ/m3	1.21	PJ
FUEL OIL	6.09	1.000m3	0.0392	TJ/m3	0.24	PJ
NATURAL GAS AND LNG	2,296.53	1.000.000m3	0.0352	PJ/m3	80.82	PJ
NATURAL GAS	2,296.53	1.000.000m3	0.0352	PJ/m3	80.82	PJ
HYDRO POWER	22,561.26	GWH	0.0036	PJ/GWH	81.22	PJ
OTHERS	446.06	KT	0.0250	TJ/T	11.15	PJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
COAL	17.14	KT	0.0278	TJ/T	0.48	PJ
REFINERY GAS	4.93	1.000.000m3	0.0169	PJ/m3	0.08	PJ
DIESEL OIL	33.12	1.000m3	0.0364	TJ/m3	1.20	PJ
FUEL OIL	82.71	1.000m3	0.0392	TJ/m3	3.24	PJ
NATURAL GAS AND LNG	66.06	1.000.000m3	0.0352	PJ/m3	2.32	PJ
NATURAL GAS	66.06	1.000.000m3	0.0352	PJ/m3	2.32	PJ
HYDRO POWER	625.84	GWH	0.0036	PJ/GWH	2.25	PJ
OTHERS	1,184.62	KT	0.0147	TJ/T	17.41	PJ
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	859.21	KT	0.0278	TJ/T	23.92	PJ
<b>REFINING</b>						
REFINERY GAS	587.17	1.000.000m3	0.0169	PJ/m3	9.95	PJ
LPG	756.49	1.000m3	0.0265	TJ/m3	20.05	PJ
NAPHTHA	306.69	1.000m3	0.0320	TJ/m3	9.82	PJ
MOGAS	2,892.15	1.000m3	0.0325	TJ/m3	93.97	PJ
JET FUEL	748.15	1.000m3	0.0358	TJ/m3	26.76	PJ
AVGAS	11.21	1.000m3	0.0309	TJ/m3	0.35	PJ
KEROSENE	187.60	1.000m3	0.0359	TJ/m3	6.74	PJ
DIESEL OIL	4,515.84	1.000m3	0.0364	TJ/m3	164.44	PJ
FUEL OIL	1,457.35	1.000m3	0.0392	TJ/m3	57.11	PJ
OTHER PETROLEUM PRODUCTS	204.45	1.000m3	0.0293	TJ/m3	5.98	PJ
<b>GAS RECOVERING</b>						
TOWN GAS	333.88	1.000.000m3	0.0150	PJ/m3	5.02	PJ
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	18,273.00	GWH	0.0036	PJ/GWH	65.78	PJ
HYDRO POWER	22,561.26	GWH	0.0036	PJ/GWH	81.22	PJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	2,210.00	GWH	0.0036	PJ/GWH	7.96	PJ
HYDRO POWER	625.84	GWH	0.0036	PJ/GWH	2.25	PJ
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
BLAST FURNACE GAS	705.07	1.000.000m3	0.0034	PJ/m3	2.39	PJ
REFINERY GAS	580.83	1.000.000m3	0.0169	PJ/m3	9.84	PJ
DIESEL OIL	14.21	1.000m3	0.0364	TJ/m3	0.52	PJ
FUEL OIL	31.66	1.000m3	0.0392	TJ/m3	1.24	PJ
TOWN GAS	4.40	1.000.000m3	0.0180	PJ/m3	0.08	PJ
ELECTRICITY	4,124.40	GWH	0.0036	PJ/GWH	14.85	PJ
TOTAL LOSSES AND OWN USE					28.92	PJ
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	767.06	KT	0.0278	TJ/T	21.35	PJ
HARD COAL	767.06	KT	0.0278	TJ/T	21.35	PJ
STEAM COAL	533.78	KT	0.0228	TJ/T	12.17	PJ
SUBBITUMINOUS COAL	491.64	KT	0.0182	TJ/T	8.97	PJ
COKE	328.02	KT	0.0278	TJ/T	9.13	PJ
BRIQUETTES	11.29	KT	0.0189	TJ/T	0.21	PJ
BLAST FURNACE GAS	799.45	1.000.000m3	0.0034	PJ/m3	2.71	PJ
REFINERY GAS	1.41	1.000.000m3	0.0169	PJ/m3	0.02	PJ
LPG	1,758.13	1.000m3	0.0265	TJ/m3	46.60	PJ
NAPHTHA	7.83	1.000m3	0.0320	TJ/m3	0.25	PJ
MOGAS	2,966.82	1.000m3	0.0325	TJ/m3	96.39	PJ
JET FUEL	755.82	1.000m3	0.0358	TJ/m3	27.03	PJ
AVGAS	7.47	1.000m3	0.0309	TJ/m3	0.23	PJ
KEROSENE	202.99	1.000m3	0.0359	TJ/m3	7.29	PJ
DIESEL OIL	4,953.61	1.000m3	0.0364	TJ/m3	180.24	PJ
FUEL OIL	1,333.24	1.000m3	0.0392	TJ/m3	52.25	PJ
NATURAL GAS AND LNG	1,458.58	1.000.000m3	0.0352	PJ/m3	51.33	PJ
NATURAL GAS	1,458.58	1.000.000m3	0.0352	PJ/m3	51.33	PJ
TOWN GAS	310.82	1.000.000m3	0.0150	PJ/m3	4.67	PJ
ELECTRICITY	40,800.97	GWH	0.0036	PJ/GWH	146.88	PJ
OTHERS	11,203.74	KT	0.0147	TJ/T	164.70	PJ
TOTAL					811.29	PJ
<b>AGRICULTURE</b>						
COAL	153.73	KT	0.0278	TJ/T	4.28	PJ
HARD COAL	153.73	KT	0.0278	TJ/T	4.28	PJ
COKE	7.43	KT	0.0278	TJ/T	0.21	PJ
LPG	4.20	1.000m3	0.0265	TJ/m3	0.11	PJ
DIESEL OIL	7.10	1.000m3	0.0364	TJ/m3	0.26	PJ
FUEL OIL	162.47	1.000m3	0.0392	TJ/m3	6.37	PJ
NATURAL GAS AND LNG	99.03	1.000.000m3	0.0352	PJ/m3	3.48	PJ
NATURAL GAS	99.03	1.000.000m3	0.0352	PJ/m3	3.48	PJ
ELECTRICITY	4,253.47	GWH	0.0036	PJ/GWH	15.31	PJ
OTHERS	1,797.71	KT	0.0147	TJ/T	26.43	PJ
TOTAL					56.45	PJ
<b>RESIDENTIAL COMMERCIAL</b>						

Original Table (Energy Demand and Supply) of Chile in 2002 (Continued)

Year:2002

Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
COAL	10.29	KT	0.0278	TJ/T	0.29	PJ
LPG	1,515.67	1.000m3	0.0265	TJ/m3	40.17	PJ
KEROSENE	157.81	1.000m3	0.0359	TJ/m3	5.67	PJ
DIESEL OIL	80.88	1.000m3	0.0364	TJ/m3	2.94	PJ
FUEL OIL	4.36	1.000m3	0.0392	TJ/m3	0.17	PJ
NATURAL GAS AND LNG	442.05	1.000.000m3	0.0352	PJ/m3	15.56	PJ
NATURAL GAS	442.05	1.000.000m3	0.0352	PJ/m3	15.56	PJ
TOWN GAS	81.46	1.000.000m3	0.0150	PJ/m3	1.22	PJ
ELECTRICITY	12,469.71	GWH	0.0036	PJ/GWH	44.89	PJ
OTHERS	8,152.79	KT	0.0147	TJ/T	119.85	PJ
TOTAL					230.76	PJ
OTHERS						
TOTAL						PJ
<b>INDUSTRY</b>						
COAL	603.05	KT	0.0278	TJ/T	16.79	PJ
HARD COAL	603.05	KT	0.0278	TJ/T	16.79	PJ
STEAM COAL	419.64	KT	0.0228	TJ/T	9.57	PJ
SUBBITUMINOUS COAL	386.51	KT	0.0182	TJ/T	7.05	PJ
COKE	346.31	KT	0.0278	TJ/T	9.64	PJ
BRIQUETTES	8.88	KT	0.0189	TJ/T	0.17	PJ
BLAST FURNACE GAS	837.21	1.000.000m3	0.0032	PJ/m3	2.71	PJ
REFINERY GAS	0.65	1.000.000m3	0.0370	PJ/m3	0.02	PJ
LPG	238.26	1.000m3	0.0265	TJ/m3	6.32	PJ
NAPHTHA	8.85	1.000m3	0.0283	TJ/m3	0.25	PJ
KEROSENE	45.18	1.000m3	0.0359	TJ/m3	1.62	PJ
DIESEL OIL	1,485.55	1.000m3	0.0364	TJ/m3	54.05	PJ
FUEL OIL	502.32	1.000m3	0.0392	TJ/m3	19.71	PJ
NATURAL GAS AND LNG	890.41	1.000.000m3	0.0352	PJ/m3	31.33	PJ
NATURAL GAS	890.41	1.000.000m3	0.0352	PJ/m3	31.33	PJ
TOWN GAS	191.51	1.000.000m3	0.0180	PJ/m3	3.45	PJ
ELECTRICITY	23,863.84	GWH	0.0036	PJ/GWH	85.91	PJ
TOTAL					231.97	PJ
<b>TRANSPORT</b>						
MOGAS	2,966.82	1.000m3	0.0325	TJ/m3	96.39	PJ
JET FUEL	755.82	1.000m3	0.0358	TJ/m3	27.03	PJ
AVGAS	7.47	1.000m3	0.0309	TJ/m3	0.23	PJ
DIESEL OIL	3,020.17	1.000m3	0.0364	TJ/m3	109.89	PJ
NATURAL GAS AND LNG	27.09	1.000.000m3	0.0352	PJ/m3	0.95	PJ
NATURAL GAS	27.09	1.000.000m3	0.0352	PJ/m3	0.95	PJ
ELECTRICITY	213.95	GWH	0.0036	PJ/GWH	0.77	PJ
TOTAL					235.27	PJ
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	279.87	KT	0.0214	TJ/T	5.98	PJ
TOTAL NON-ENERGY USE	279.87	KT	0.0214	TJ/T	5.98	PJ

## Original Table (Energy Demand and Supply) of Chile in 2002 (Continued)

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	6,987	
COAL	2,253	
OIL	1,006	
GAS	3,441	
HYDRO POWER	4,157	
NUCLEAR POWER		
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)	2	
OTHERS (BIOMASS, MUNICIPAL WASTE)	287	
COGENERATION	288	
COAL	110	
OIL	32	
GAS	21	
OTHERS (BIOMASS, MUNICIPAL WASTE)	125	

## REFINING CAPACITY

At the time of 2002

	Unit	
OPERATING RATE (*1)	%	96.0
CRUDE DISTILLATION CAPACITY	1000BD	227.1
VACUUM DISTILLATION CAPACITY	1000BD	
CATALYTIC HYDROCRACKING CAPACITY	1000BD	29.0
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	
CATALYTIC CRACKING CAPACITY	1000BD	52.2
CATALYTIC REFORMING CAPACITY	1000BD	29.0

(\*1) crude throughput/distillation capacity

## NON-COMMERCIAL ENERGY TABLE

At the time of 2002  
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

## Original Table (Disaggregated Final Energy Demand) of Chile in 2002

Chile	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
	<b>I INDUSTRIAL SECTOR</b>							
<b>1.1 IRON AND STEEL (*1)</b>								
COAL	69.72	KT	0.0293	TJ/T	2.04	PJ		
HARD COAL	69.72	KT	0.0293	TJ/T	2.04	PJ		
COKE	330.83	KT	0.0289	TJ/T	9.56	PJ		
BLAST FURNACE GAS	799.45	1.000.000m3	0.0038	PJ/m3	3.01	PJ		
DIESEL OIL	23.50	1.000m3	0.0383	TJ/m3	0.90	PJ		
FUEL OIL	9.83	1.000m3	0.0413	TJ/m3	0.41	PJ		
NATURAL GAS/LNG	35.65	1.000.000m3	0.0391	PJ/m3	1.39	PJ		
NATURAL GAS	35.65	1.000.000m3	0.0391	PJ/m3	1.39	PJ		
TOWN GAS	229.35	1.000.000m3	0.0167	PJ/m3	3.83	PJ		
ELECTRICITY	1,016.27	GWh	0.0036	PJ/GWh	3.66	PJ		
PUBLIC UTILITIES	1,016.27	GWh	0.0036	PJ/GWh	3.66	PJ		
TOTAL					24.81	PJ		
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>								
REFINERY GAS	1.41	1.000.000m3	0.0178	PJ/m3	0.03	PJ		
LPG	1.35	1.000m3	0.0279	TJ/m3	0.04	PJ		
DIESEL OIL	0.33	1.000m3	0.0383	TJ/m3	0.01	PJ		
FUEL OIL	0.20	1.000m3	0.0413	TJ/m3	0.01	PJ		
NATURAL GAS/LNG	20.66	1.000.000m3	0.0391	PJ/m3	0.81	PJ		
NATURAL GAS	20.66	1.000.000m3	0.0391	PJ/m3	0.81	PJ		
ELECTRICITY	518.60	GWh	0.0036	PJ/GWh	1.87	PJ		
PUBLIC UTILITIES	518.60	GWh	0.0036	PJ/GWh	1.87	PJ		
TOTAL					2.76	PJ		
<b>1.3 NON-FERROUS METALS (*3)</b>								
COAL	27.57	KT	0.0293	TJ/T	0.81	PJ		
HARD COAL	27.57	KT	0.0293	TJ/T	0.81	PJ		
COKE	11.44	KT	0.0289	TJ/T	0.33	PJ		
LPG	20.71	1.000m3	0.0279	TJ/m3	0.58	PJ		
NAPHTHA	8.01	1.000m3	0.0298	TJ/m3	0.24	PJ		
KEROSENE	10.74	1.000m3	0.0378	TJ/m3	0.41	PJ		
DIESEL OIL	973.61	1.000m3	0.0383	TJ/m3	37.29	PJ		
FUEL OIL	279.64	1.000m3	0.0413	TJ/m3	11.55	PJ		
NATURAL GAS/LNG	87.47	1.000.000m3	0.0391	PJ/m3	3.42	PJ		
NATURAL GAS	87.47	1.000.000m3	0.0391	PJ/m3	3.42	PJ		
ELECTRICITY	14,202.26	GWh	0.0036	PJ/GWh	51.13	PJ		
PUBLIC UTILITIES	14,202.26	GWh	0.0036	PJ/GWh	51.13	PJ		
OTHERS	0.57	KT	0.0147	TJ/T	0.01	PJ		
TOTAL					105.76	PJ		
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>								
DIESEL OIL	42.73	1.000m3	0.0383	TJ/m3	1.64	PJ		
FUEL OIL	2.74	1.000m3	0.0413	TJ/m3	0.11	PJ		
NATURAL GAS/LNG	77.62	1.000.000m3	0.0391	PJ/m3	3.03	PJ		
NATURAL GAS	77.62	1.000.000m3	0.0391	PJ/m3	3.03	PJ		
ELECTRICITY	326.74	GWh	0.0036	PJ/GWh	1.18	PJ		
PUBLIC UTILITIES	326.74	GWh	0.0036	PJ/GWh	1.18	PJ		
TOTAL					5.96	PJ		
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>								
COAL	0.29	KT	0.0293	TJ/T	0.01	PJ		
HARD COAL	0.29	KT	0.0293	TJ/T	0.01	PJ		
LPG	4.20	1.000m3	0.0279	TJ/m3	0.12	PJ		
DIESEL OIL	7.10	1.000m3	0.0383	TJ/m3	0.27	PJ		
FUEL OIL	153.96	1.000m3	0.0413	TJ/m3	6.36	PJ		
NATURAL GAS/LNG	99.03	1.000.000m3	0.0391	PJ/m3	3.87	PJ		
NATURAL GAS	99.03	1.000.000m3	0.0391	PJ/m3	3.87	PJ		
ELECTRICITY	4,162.77	GWh	0.0036	PJ/GWh	14.99	PJ		
PUBLIC UTILITIES	4,162.77	GWh	0.0036	PJ/GWh	14.99	PJ		
OTHERS	1,797.71	KT	0.0147	TJ/T	26.43	PJ		
TOTAL					52.04	PJ		
<b>1.6 OTHER INDUSTRIES (*6)</b>								
COAL	659.19	KT	0.0293	TJ/T	19.31	PJ		
HARD COAL	659.19	KT	0.0293	TJ/T	19.31	PJ		
COKE	16.37	KT	0.0289	TJ/T	0.47	PJ		
LPG	216.20	1.000m3	0.0279	TJ/m3	6.03	PJ		
NAPHTHA	0.84	1.000m3	0.0298	TJ/m3	0.03	PJ		
KEROSENE	34.44	1.000m3	0.0378	TJ/m3	1.30	PJ		
DIESEL OIL	445.38	1.000m3	0.0383	TJ/m3	17.06	PJ		
FUEL OIL	218.22	1.000m3	0.0413	TJ/m3	9.01	PJ		
NATURAL GAS/LNG	669.01	1.000.000m3	0.0391	PJ/m3	26.16	PJ		
NATURAL GAS	669.01	1.000.000m3	0.0391	PJ/m3	26.16	PJ		

Original Table (Disaggregated Final Energy Demand) of Chile in 2002 (Continued)

2002						
Chile	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	7,890.66	GWh	0.0036	PJ/GWh	28.41	PJ
PUBLIC UTILITIES	7,890.66	GWh	0.0036	PJ/GWh	28.41	PJ
OTHERS	1,169.59	KT	0.0151	TJ/T	17.66	PJ
TOTAL					125.44	PJ
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
JET FUEL	755.82	1.000m3	0.0377	TJ/m3	28.46	PJ
AVGAS	7.47	1.000m3	0.0325	TJ/m3	0.24	PJ
TOTAL					28.70	PJ
<b>2.2 ROAD</b>						
MOGAS	2,966.82	1.000m3	0.0342	TJ/m3	101.47	PJ
DIESEL OIL	2,998.20	1.000m3	0.0383	TJ/m3	114.83	PJ
NATURAL GAS	27.09	1.000.000m3	0.0391	PJ/m3	1.06	PJ
ELECTRICITY	131.39	GWh	0.0036	PJ/GWh	0.47	PJ
TOTAL					217.83	PJ
<b>2.3 RAIL</b>						
DIESEL OIL	21.97	1.000m3	0.0383	TJ/m3	0.84	PJ
ELECTRICITY	82.56	GWh	0.0036	PJ/GWh	0.30	PJ
TOTAL					1.14	PJ
<b>2.4 INTERNAL NAVIGATION</b>						
DIESEL OIL	359.91	1.000m3	0.0383	TJ/m3	13.78	PJ
FUEL OIL	662.67	1.000m3	0.0413	TJ/m3	27.37	PJ
TOTAL					41.15	PJ
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
COAL	10.29	KT	0.0293	TJ/T	0.30	PJ
LPG	204.65	1.000m3	0.0279	TJ/m3	5.71	PJ
KEROSENE	0.89	1.000m3	0.0378	TJ/m3	0.03	PJ
DIESEL OIL	28.85	1.000m3	0.0383	TJ/m3	1.11	PJ
FUEL OIL	3.24	1.000m3	0.0413	TJ/m3	0.13	PJ
NATURAL GAS	79.87	1.000.000m3	0.0391	PJ/m3	3.12	PJ
TOWN GAS	32.34	1.000.000m3	0.0167	PJ/m3	0.54	PJ
ELECTRICITY	5,308.11	GWh	0.0036	PJ/GWh	19.11	PJ
TOTAL					30.06	PJ
<b>3.2 RESIDENTIAL</b>						
LPG	1,311.02	1.000m3	0.0279	TJ/m3	36.58	PJ
KEROSENE	156.92	1.000m3	0.0378	TJ/m3	5.93	PJ
DIESEL OIL	52.02	1.000m3	0.0383	TJ/m3	1.99	PJ
FUEL OIL	1.11	1.000m3	0.0413	TJ/m3	0.05	PJ
NATURAL GAS	362.18	1.000.000m3	0.0391	PJ/m3	14.16	PJ
TOWN GAS	49.13	1.000.000m3	0.0167	PJ/m3	0.82	PJ
OTHER COMMERCIAL	8,175.03	KT	0.0147	TJ/T	119.85	PJ
ELECTRICITY	7,161.59	GWh	0.0036	PJ/GWh	25.78	PJ
TOTAL					205.16	PJ

## Original Table (Energy Price) of Chile in 2002

Year: 2002

Chile	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL			
STEAM COAL	US\$/Ton	31	
COKING COAL			
CRUDE OIL	US\$/Bbl	28.4	
<b>PETROLEUM PRODUCTS</b>			
LPG	US\$/Bbl	21.3	
NAPHTHA			
MOGAS	US\$/Bbl	31.1	
JET FUEL	US\$/Bbl	41.9	
KEROSENE	US\$/Bbl	41.9	
DIESEL OIL	US\$/Bbl	34.6	
FUEL OIL	US\$/Bbl	19.5	
NATURAL GAS (LNG)	US\$/1000M3	77.5	
<b>WHOLESALE PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS	US\$/M3	0.2	
TOWN GAS			
<b>PETROLEUM PRODUCTS</b>			
NAPHTHA			
MOGAS			
JET FUEL	US\$/M3	285.0	
KEROSENE			
DIESEL OIL			
FUEL OIL	US\$/Ton	207.8	
LPG			
ELECTRICITY (INDUSTRY)	US\$/KWh	0.1	
ELECTRICITY (COMMERCIAL)	US\$/KWh	0.1	
<b>CONSUMER PRICES</b>			
COAL	US\$/Ton	46.8	
STEAM COAL			
NATURAL GAS	US\$/M3	0.5	
TOWN GAS			
<b>PETROLEUM PRODUCTS</b>			
MOGAS	US\$/LT	0.6	
KEROSENE	US\$/LT	0.4	
DIESEL OIL	US\$/LT	0.4	
LPG	US\$/Kg	0.7	
ELECTRICITY (RESIDENTIAL)	US\$/KWh	0.1	

## 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
	<b>1st quarter</b>	144	601	-	3
	APR.	48	274	-	1
	MAY.	48	498	-	1
	JUN.	48	67	-	1
	<b>2nd quarter</b>	144	839	-	3
	JUL.	48	248	-	1
	AUG.	48	217	-	1
	SEP.	48	339	-	1
	<b>3rd quarter</b>	144	804	-	3
	OCT.	48	340	-	1
	NOV.	48	224	-	-
	DEC.	48	96	-	-
	<b>4th quarter</b>	144	660	-	1
			576	2,904	-

Oil		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
	<b>1st quarter</b>	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
	<b>2nd quarter</b>	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
	<b>3rd quarter</b>	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
	<b>4th quarter</b>	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 <sup>3</sup>
		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
	<b>1st quarter</b>	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
	<b>2nd quarter</b>	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
	<b>3rd quarter</b>	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
	<b>4th quarter</b>	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	-
	<b>1st quarter</b>	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	-
	<b>2nd quarter</b>	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	-
	<b>3rd quarter</b>	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	-
	<b>4th quarter</b>	11,920	6,224	5,696	-	-	507	-
		46,829	24,226	22,603	-	-	1,951	-

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.

## 3.5 China

## Energy Balance Table of China in 2001

	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
<b>1 Indigenous Production</b>	551,385	-	155,764	-	-	-	-	-	-
<b>2 Import</b>	1,309	-	57,248	26,894	0	-	-	1,975	266
<b>3 Export</b>	-44,202	-8,944	-7,173	-10,912	-5,601	-	-	-1,783	-248
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	17,755	-1,828	-1,235	-1,291	372	-	-	519	-2,141
<b>6 Total Primary Energy Supply</b>	526,245	-10,772	204,604	14,691	-5,229	-	-	711	-2,124
<b>7 Public Electricity</b>	-305,242	-683	-892	-14,439	-	-	-	-	-2,329
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-5,038	555	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-193,868	190,249	40,653	-	-	7,724	72,533
<b>11 Coal Transformation</b>	-92,888	89,413	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-21,738	-1,207	-5,368	-37,150	-1,074	-	-	-243	-3,397
<b>13 Discrepancy</b>	57,083	1,892	-3,749	32,210	-227	-	-	276	-1,543
<b>14 Total Final Energy Consumption</b>	158,422	79,196	726	185,560	34,122	-	-	8,468	63,140
<b>15 Industry Sector</b>	105,805	68,055	509	41,582	4,967	-	-	598	10,133
<b>16 Transport Sector</b>	4,284	71	173	53,557	13,888	-	-	5,486	25,881
<b>17 Other Sector</b>	44,900	6,388	13	54,187	14,125	-	-	2,349	24,968
<b>18 Agriculture</b>	6,521	840	-	15,217	1,865	-	-	15	13,330
<b>19 Residential &amp; Commercial</b>	35,221	5,364	1	19,909	3,411	-	-	856	3,365
<b>20 Other</b>	3,158	184	11	19,061	8,848	-	-	1,478	8,274
<b>21 Non-energy</b>	3,433	4,683	-	32,830	83	-	-	2	-

## Energy Balance Table of China 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
<b>1 Indigenous Production</b>	655,513	-	158,653	-	-	-	-	-	-
<b>2 Import</b>	5,361	-	65,937	28,817	-	-	-	2,099	462
<b>3 Export</b>	-41,597	-8,766	-7,282	-11,666	-5,990	-	-	-1,660	-1,199
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-5,374	-425	-999	1,947	581	-	-	52	797
<b>6 Total Primary Energy Supply</b>	613,903	-9,191	216,310	19,099	-5,410	-	-	491	60
<b>7 Public Electricity</b>	-346,360	-716	-865	-15,365	-	-	-	-	-2,190
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-5,356	644	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-205,016	198,767	42,278	-	-	8,083	74,670
<b>11 Coal Transformation</b>	-105,135	104,248	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-20,777	-1,385	-6,951	-16,373	-1,079	-	-	-234	-3,739
<b>13 Discrepancy</b>	47,837	-3,371	-2,302	3,306	-185	-	-	420	-443
<b>14 Total Final Energy Consumption</b>	184,112	90,229	1,175	189,434	35,604	-	-	8,760	68,359
<b>15 Industry Sector</b>	104,776	77,754	935	30,964	5,006	-	-	595	10,595
<b>16 Transport Sector</b>	4,550	77	164	57,987	14,711	-	-	6,035	28,728
<b>17 Other Sector</b>	46,484	7,045	13	57,759	14,601	-	-	2,105	26,347
<b>18 Agriculture</b>	6,900	911	-	16,239	1,839	-	-	14	14,383
<b>19 Residential &amp; Commercial</b>	36,276	5,936	1	22,209	3,797	-	-	721	3,534
<b>20 Other</b>	3,308	198	12	19,311	8,966	-	-	1,370	8,430
<b>21 Non-energy</b>	3,593	4,842	-	38,339	88	-	-	26	-

Energy Balance Table of China in 2001 (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	
-	-	-	-	25,413	-	23,867	4,553	-	2,138	-	-	763,120	
17,325	5,573	-	1,755	-	-	-	-	-	-	155	-	85,606	
-419	-24	-	-2,837	-	-	-	-	-	-	-877	-	-72,109	
-	-	-	-	-	-	-	-	-	-	-	-	-	
86	-125	-	-	-	-	-	-	-	-	-	-	13,400	
16,991	5,424	-	-1,082	25,413	-	23,867	4,553	-	2,138	-722	-	790,018	
-10,813	-12	-1,285	-	-2,464	-	-23,867	-4,553	-	-	126,607	36,570	-188,965	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	2,999	-	-	-	-	-	-	-1,484	
17,712	10,857	7,033	33,738	-	-	-	-	-	-	-	-	-3,619	
-	-	-	-	-	-	-	-	-	-	-	-	-3,475	
-5,347	-1,624	-4,635	-20,829	-6,136	-927	-	-	-	-	-28,138	-9,331	-109,997	
1,658	-206	554	31,698	1,889	6,511	-	-	-	-	-8,884	-467	86,484	
20,201	14,438	1,666	43,525	18,702	8,583	-	-	-	2,138	88,863	26,771	568,961	
11,643	1,688	1,206	11,348	9,528	6,987	-	-	-	-	52,826	20,116	305,408	
8,123	179	-	-	101	5	-	-	-	-	2,661	164	61,015	
282	12,463	-	-	4,174	1,591	-	-	-	-	32,145	6,491	149,889	
4	3	-	-	-	-	-	-	-	-	6,564	13	29,155	
117	12,161	-	-	4,115	1,569	-	-	-	-	19,657	5,856	91,693	
162	299	-	-	59	22	-	-	-	-	5,924	622	29,041	
-	108	460	32,177	4,900	-	-	-	-	2,138	-	-	47,984	

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	-	-	-	-	872,855	
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	-	-	-637	-	898,173	
-11,204	-18	-1,395	-559	-2,352	-2,284	-24,774	-6,548	-	-	141,130	39,192	-218,942	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	11,192	-	-	-	-	-	-	6,480	
17,533	11,820	7,272	37,112	-	-	-	-	-	-	-	-	-6,249	
-	-	-	-	-	-	-	-	-	-	-	-	-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	-	-	-	-312	-45	47,949	
20,539	16,747	1,667	37,757	20,297	8,652	-	-	-	-	108,730	29,835	632,465	
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	-	-	-	-	-	-	-	51,803	

## Major Energy Indicators of China

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	399,640	430,597	465,893	500,652	529,807	563,520	602,794	616,400	621,246
Indigenous Production	414,121	459,629	503,593	553,754	570,177	589,295	618,777	656,184	670,463
Import	1,733	2,302	2,027	1,970	4,284	3,918	5,736	11,088	8,014
Export	-20,336	-23,155	-30,725	-38,387	-36,382	-36,354	-36,375	-36,440	-36,976
Final Energy Consumption	301,391	335,323	360,290	388,087	395,200	420,398	451,038	465,824	469,304
Industry	205,656	223,843	241,048	257,297	262,915	281,354	301,324	314,576	316,812
Transport	14,248	20,572	21,620	23,037	24,190	25,275	26,341	27,273	27,290
Residential & Commercial	71,863	81,956	88,262	98,865	98,701	103,452	112,550	112,266	112,119
Agriculture	9,624	8,953	9,361	8,888	9,309	10,228	10,725	11,613	12,270
Coal, Coal Products									
Primary Energy Supply	297,182	330,930	363,846	392,470	415,912	444,052	474,055	481,588	486,547
Indigenous Production	294,577	339,409	374,892	414,343	424,677	440,792	465,450	500,728	512,955
Import	945	1,017	1,183	1,109	922	815	805	944	833
Export	-3,177	-3,342	-3,542	-3,929	-3,541	-5,122	-6,558	-6,983	-7,395
Transformation Sector	-64,623	-71,015	-79,250	-82,273	-107,058	-119,150	-129,730	-122,039	-152,861
Power Generation	-54,629	-61,813	-69,044	-70,429	-78,272	-88,810	-98,068	-105,054	-113,794
Final Energy Consumption	213,919	243,077	263,032	283,383	282,342	298,886	319,642	326,715	325,981
Industry	138,597	156,986	170,747	182,027	182,300	195,150	208,752	217,621	217,747
Transport	9,606	10,902	11,322	11,491	10,823	10,746	10,884	11,002	10,504
Residential & Commercial	65,715	75,188	80,963	89,866	89,134	92,901	99,908	97,996	97,005
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	87,619	86,547	87,307	90,409	97,067	101,610	106,421	110,276	111,936
Indigenous Production	100,650	100,767	108,884	118,653	124,156	127,434	130,196	130,762	131,526
Import	348	352	-	-	433	-	812	3,100	2,780
Export	-12,644	-14,434	-21,179	-28,529	-27,073	-25,865	-24,743	-23,169	-22,813
Transformation Sector	-80,210	-80,150	-81,571	-84,252	-90,306	-95,323	-99,501	-102,842	-105,420
Petroleum Refineries	-74,757	-76,391	-78,386	-81,596	-87,971	-92,865	-97,276	-101,295	-104,236
Petroleum Products									
Primary Energy Supply	-4,055	-6,333	-5,077	-2,985	-4,515	-3,210	-813	-158	-3,220
Import	440	934	844	861	2,929	3,103	4,119	7,044	4,402
Export	-4,515	-5,378	-6,004	-5,929	-5,768	-5,367	-5,073	-6,288	-6,766
Transformation Sector	57,329	59,811	61,868	58,169	74,342	78,965	81,375	85,216	89,031
Power Generation	-14,182	-13,408	-13,546	-10,907	-10,538	-10,622	-12,192	-12,239	-10,583
Petroleum Refineries	74,009	75,749	77,737	71,432	87,127	91,756	96,070	99,844	102,039
Final Energy Consumption	47,242	50,728	53,389	58,169	62,297	67,087	71,389	75,301	76,714
Industry	31,236	30,415	32,175	36,031	37,789	40,733	42,994	44,772	45,481
Transport	4,406	9,354	9,933	10,993	12,767	13,844	14,637	15,397	15,833
Residential & Commercial	4,298	4,469	4,400	4,986	5,201	5,375	6,292	7,048	6,717
Agriculture	7,302	6,490	6,881	6,159	6,540	7,135	7,467	8,083	8,599
Natural Gas, Town Gas									
Primary Energy Supply	11,957	10,231	10,415	10,834	11,530	10,834	11,949	12,611	12,818
Indigenous Production	11,957	10,231	10,415	10,834	11,530	10,834	11,949	12,611	12,818
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-335	-402	-419	131	-21	18	60	221	195
Power Generation	-201	-168	-168	-226	-394	-637	-478	-863	-612
Final Energy Consumption	10,942	9,250	9,611	9,953	10,410	10,913	11,521	11,407	11,885
Industry	10,725	9,100	9,184	9,219	9,595	9,879	10,031	9,702	9,976
Transport	8	8	8	8	25	25	50	25	42
Residential & Commercial	209	142	419	726	790	1,009	1,440	1,680	1,867
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	25,939	30,227	32,423	35,322	38,657	42,764	46,884	50,294	53,421
Thermal	20,848	22,797	24,958	27,375	30,530	34,164	37,501	40,112	42,525
Hydro	5,091	7,430	7,465	7,946	8,127	8,600	9,383	10,182	10,896
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	23,360	27,446	29,466	32,182	35,444	39,264	43,212	46,326	49,285
Industry	19,169	22,519	24,150	25,620	28,524	31,344	34,272	36,405	38,173
Transport	228	308	356	545	575	660	770	849	911
Residential & Commercial	1,641	2,156	2,479	3,287	3,577	4,168	4,911	5,542	6,531
Agriculture	2,322	2,463	2,480	2,730	2,768	3,093	3,259	3,530	3,670

Major Energy Indicators of China (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
629,562	659,882	713,972	753,519	810,853	847,829	807,179	801,036	724,664	719,062	790,018	898,173	
674,663	689,889	712,241	760,575	823,403	849,677	802,308	787,789	691,973	677,280	763,120	872,855	
11,125	19,692	33,457	25,898	33,647	42,185	60,346	53,513	60,191	91,670	85,606	100,314	
-50,562	-49,480	-33,964	-36,191	-42,086	-47,286	-45,522	-45,245	-40,626	-57,181	-72,109	-70,145	
511,780	539,663	548,523	560,757	617,756	638,950	594,323	563,322	575,616	554,781	568,961	632,465	
322,300	343,018	337,983	351,314	390,794	397,511	361,224	337,801	326,652	301,774	305,408	323,676	
29,167	30,824	31,915	31,794	34,627	34,789	42,018	47,944	55,085	59,233	61,015	66,014	
125,996	124,763	98,651	94,389	102,014	112,904	99,242	79,456	87,847	88,267	91,693	99,142	
26,502	24,464	23,561	24,970	27,233	27,654	27,310	27,376	27,856	27,857	29,155	30,749	
488,506	507,408	546,118	582,015	626,217	646,157	594,621	575,292	484,216	457,536	515,473	604,712	
516,528	530,291	546,580	588,965	646,360	663,445	619,497	593,762	496,385	474,059	551,385	655,513	
650	1,402	678	574	777	1,528	908	766	829	1,072	1,309	5,361	
-23,501	-23,288	-11,098	-14,101	-19,318	-22,295	-20,360	-23,347	-24,919	-36,823	-53,147	-50,363	
-171,769	-190,274	-209,908	-239,363	-271,865	-303,920	-293,867	-276,233	-312,446	-324,153	-336,829	-374,837	
-145,863	-163,379	-182,747	-201,179	-221,442	-242,979	-231,173	-231,153	-272,640	-290,229	-305,925	-347,076	
345,920	368,891	360,038	364,664	398,754	397,227	340,500	288,446	272,239	240,267	237,619	274,341	
224,049	239,440	246,290	257,433	285,189	283,634	249,403	221,018	201,543	176,848	173,860	182,530	
10,302	9,787	8,918	7,716	6,700	5,991	6,927	6,190	5,645	4,673	4,355	4,626	
99,783	93,548	79,615	72,679	77,667	83,980	68,430	43,939	45,357	40,732	40,585	42,212	
11,068	9,562	9,071	9,802	10,641	10,543	10,213	9,438	8,365	7,526	7,361	7,811	
117,812	124,989	132,798	132,947	140,275	151,249	157,937	164,514	180,002	203,142	204,604	216,310	
133,945	134,995	137,918	138,780	142,265	149,470	145,072	152,953	152,003	154,853	155,764	158,653	
5,674	10,792	14,888	11,729	16,236	21,486	32,012	25,955	34,784	66,753	57,248	65,937	
-21,126	-20,435	-18,463	-17,567	-17,316	-19,383	-17,896	-14,820	-6,809	-9,791	-7,173	-7,282	
-115,364	-123,689	-125,399	-126,882	-136,987	-144,525	-150,598	-158,470	-178,687	-199,240	-200,129	-212,833	
-110,577	-119,144	-124,456	-126,198	-136,360	-143,775	-149,884	-157,530	-172,453	-192,904	-193,868	-205,016	
-1,190	2,462	6,936	5,903	10,047	13,970	17,495	20,772	17,616	10,733	14,691	19,099	
4,533	7,069	17,503	13,436	16,579	19,160	27,418	26,790	24,546	23,712	26,894	28,817	
-5,913	-5,748	-4,392	-4,188	-4,934	-5,289	-6,646	-6,461	-8,112	-9,718	-10,912	-11,666	
84,298	89,345	90,601	94,988	103,699	112,865	113,970	103,977	119,153	137,329	138,659	167,029	
-14,330	-14,561	-19,192	-15,946	-16,181	-15,005	-17,699	-15,932	-14,669	-14,056	-14,439	-15,365	
108,604	115,288	122,566	123,005	133,553	142,280	147,350	154,544	168,887	188,210	190,249	198,767	
92,547	90,497	98,831	102,097	114,854	128,409	135,005	149,170	173,671	181,266	185,560	189,434	
42,776	43,745	26,805	27,078	28,518	30,120	25,702	29,697	40,561	41,645	41,582	30,964	
17,692	19,703	21,673	22,603	26,303	26,994	32,874	39,533	46,844	51,714	53,557	57,987	
13,704	16,600	5,867	6,180	8,220	10,588	10,933	11,906	17,804	19,277	19,909	22,209	
11,308	10,409	10,317	10,567	11,576	11,768	11,580	12,562	13,797	14,523	15,217	16,239	
13,465	13,230	14,048	14,713	15,038	16,854	17,121	19,505	21,113	22,791	25,413	27,367	
13,465	13,230	14,048	14,713	15,038	16,854	17,121	19,505	21,113	22,791	25,413	27,367	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-3,080	-3,061	-224	-2,933	7,031	7,115	3,411	2,686	1,160	-2,757	-6,528	-1,252	
-561	-687	-898	-1,091	-1,606	-2,311	-2,319	-3,472	-1,848	-2,468	-2,464	-4,636	
9,244	9,742	13,894	11,741	21,773	22,592	18,316	21,071	22,809	23,497	27,285	28,949	
7,372	7,579	10,098	8,382	18,827	19,570	15,515	15,594	14,719	15,292	16,515	17,295	
42	34	65	65	56	102	16	22	67	88	105	135	
1,823	2,130	2,886	3,084	2,714	2,613	2,688	5,038	3,930	4,665	5,684	6,491	
-	-	34	34	2	19	-	-	-	-	-	-	
58,234	64,728	72,228	79,815	86,695	92,914	97,599	100,328	106,617	116,622	126,607	141,130	
47,512	53,446	58,813	64,150	69,196	75,510	79,498	81,221	87,798	96,049	101,237	114,195	
10,722	11,237	13,277	14,458	16,395	16,171	16,860	17,894	17,534	19,134	23,867	24,774	
1	45	138	1,208	1,104	1,233	1,240	1,213	1,286	1,439	1,503	2,161	
45,046	49,953	55,291	57,270	60,634	65,529	74,269	77,188	81,729	81,780	88,863	108,730	
32,407	35,537	38,391	37,684	40,300	43,696	49,417	49,723	51,855	48,936	52,826	69,687	
1,008	1,170	1,258	1,411	1,568	1,702	2,201	2,199	2,192	2,419	2,661	2,908	
7,504	8,753	7,506	8,997	10,367	11,667	13,062	13,918	15,688	17,777	19,657	21,527	
4,126	4,493	4,137	4,563	5,011	5,319	5,504	5,364	5,681	5,794	6,564	6,683	

## Major Economic Indicators of People's Republic of China

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	981.24	1,023.31	1,036.83	1,051.04	1,066.79	1,084.04	1,101.63	1,118.65
Gross Domestic Product *4								
Real Term (Billions of 1995 Price and 1995 USD)	163.60	208.24	239.89	272.28	296.24	330.60	367.96	383.05
Real Term (Billions of 1995 Price and 1995 PPP)	706.18	898.85	1,035.47	1,175.26	1,278.68	304.76	1,588.26	1,653.38
Nominal (Billions of Current USD)	301.51	300.38	309.09	305.26	295.48	321.39	401.07	449.10
GDP per Capita *4								
Real Term (1995 Price and 1995 USD)	167	203	231	259	278	305	334	342
Real Term (1995 Price and 1995 PPP)	720	878	999	1,118	1,199	1,316	1,442	1,478
Nominal (Current USD)	307	294	298	290	277	296	364	401
Nominal GDP & its Components (Billions of Current CNY) *1								
Gross Domestic Product	451.78	593.45	717.10	896.44	1,020.22	1,196.25	1,492.83	1,690.92
Household Final Consumption Expenditure, etc.	231.71	318.25	367.45	458.90	517.50	596.72	763.31	852.35
General Government Final Consumption Expenditure	65.90	83.80	102.00	118.40	136.70	149.00	172.70	203.30
Gross Fixed Capital Formation	131.80	170.90	212.56	264.10	309.80	374.20	462.40	433.90
Stock Change	27.20	29.60	34.30	74.50	74.80	58.00	87.10	175.60
Exports of Goods and Services	34.39	49.01	67.57	89.54	120.68	163.28	194.94	215.23
Imports of Goods and Services	35.57	44.54	67.91	126.55	150.03	163.59	210.81	228.43
Real GDP & its Components (Billions of 1990 CNY) *1								
Gross Domestic Product	763.20	971.43	1,119.08	1,270.16	1,381.93	1,542.24	1,716.51	1,786.89
Household Final Consumption Expenditure, etc.	400.80	517.39	586.72	672.33	714.65	766.67	835.48	844.42
General Government Final Consumption Expenditure	93.61	118.77	143.60	161.69	181.09	191.78	199.64	206.23
Gross Fixed Capital Formation	231.35	277.27	331.34	384.02	423.19	485.83	529.06	457.64
Stock Change	50.36	52.35	60.59	119.60	116.19	85.38	108.97	188.05
Exports of Goods and Services	187.33	220.99	252.38	257.51	259.35	280.23	301.58	309.11
Imports of Goods and Services	131.56	146.04	189.56	280.77	274.03	251.42	307.63	316.52
Sectional Shares of Real GDP (%) *4								
Agriculture, Fishery and Forest	36.1	36.6	35.9	32.2	30.6	28.7	26.4	26.2
Industry	40.8	38.1	37.8	39.5	40.0	40.8	42.0	41.8
Services, etc.	24.0	27.1	28.1	29.2	30.1	30.9	31.4	31.8
Industrial Production Index (1995=100) *4	11.2	14.0	16.3	19.8	22.1	26.0	31.4	34.1
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.189	22.151	24.871	27.343	31.060	39.487	47.540	52.538
Imports, c.i.f.	20.049	21.323	26.185	42.491	43.164	43.216	55.251	59.142
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	1.990	0.014	-13.123	-9.140	-1.661	-5.315	-5.620
Current Account	N.A.	4.240	2.030	-11.417	-7.034	0.300	-3.802	-4.317
Overall Balance	N.A.	4.142	0.138	-2.440	-2.048	4.783	2.374	-0.479
Foreign Exchange Rate (CNY/USD) *1	1.4984	1.9757	2.3200	2.9367	3.4528	3.7221	3.7221	3.7651
Purchasing Power Parity (CNY/International Dollar) *1	1.1201	0.9616	0.9736	1.0367	1.0578	1.0779	1.1689	1.2261
Price Indices								
GDP Deflator (1990=100) *4	59.2	61.1	64.1	70.6	73.8	77.6	87.0	94.6
Wholesale Price Index (1995=100) *4	29.6	29.5	30.0	32.6	33.8	36.5	41.9	49.7
Consumer Price Index (1995=100) *4	30.4	32.2	33.1	36.0	38.1	40.9	48.5	57.1
Growth Rate (%)								
Real GDP *4	7.80	10.90	15.20	13.50	8.80	11.60	11.30	4.10
Population *4	1.26	1.46	1.32	1.37	1.50	1.62	1.62	1.54
Price *4								
Wholesale Price Index	0.5	-0.1	1.4	8.7	3.8	7.9	15.0	18.6
Consumer Price Index	6.0	1.5	2.8	8.8	6.0	7.3	18.5	17.8

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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1,135.19	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
397.60	434.18	495.83	562.77	633.68	700.22	767.44	834.97	900.10	964.01	1,041.13	1,119.21	1,208.75
1,716.21	1,874.10	2,140.22	2,429.15	2,735.22	3,022.42	3,312.57	3,604.08	3,885.20	4,161.05	4,493.93	4,830.97	5,217.45
387.77	406.09	483.05	601.09	542.53	700.22	816.49	898.24	946.32	991.36	1,080.73	1,175.72	1,266.05
350	377	426	478	532	581	630	679	725	769	825	880	944
1,512	1,629	1,837	2,061	2,295	2,509	2,721	2,930	3,128	3,319	3,559	3,798	4,075
342	353	415	510	455	581	671	730	762	791	856	924	989
1,854.79	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	10,479.06
911.32	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
225.20	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
473.20	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
171.20	157.70	131.90	201.80	240.43	357.65	353.11	330.34	191.51	122.61	-12.40	64.75	18.71
325.16	420.01	519.49	591.42	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
265.68	347.78	478.43	644.04	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
1,854.79	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	5,638.76
887.43	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
225.20	268.66	305.20	332.98	363.28	384.71	395.35	427.36	468.22	519.93	583.51	645.01	690.18
473.20	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	2,269.07
171.20	149.75	108.84	136.62	140.16	180.81	186.22	172.80	102.64	67.19	-6.73	34.74	10.07
325.16	367.68	408.89	464.53	581.45	618.58	614.22	755.04	809.12	931.82	1,216.64	1,333.69	1,726.01
265.68	313.99	408.88	572.73	634.83	682.20	689.99	766.72	790.54	969.15	1,206.56	1,336.63	1,704.53
27.0	25.4	23.3	21.5	19.9	19.0	18.2	17.3	16.6	15.9	15.1	14.4	13.8
41.6	43.4	46.1	48.7	51.2	52.7	53.9	54.8	55.3	55.9	56.6	57.1	58.0
31.3	31.2	30.7	30.0	29.2	28.6	28.2	28.3	28.4	28.5	28.6	28.8	28.7
36.7	42.2	52.6	66.9	83.1	100.0	116.6	131.9	146.0	162.9	N.A.	N.A.	N.A.
62.091	71.910	84.940	91.744	121.006	148.780	151.048	182.792	183.712	194.931	249.203	266.098	325.565
53.345	63.791	80.585	103.959	115.615	132.084	138.833	142.370	140.237	165.699	225.094	243.553	295.203
9.165	8.743	5.183	-10.654	7.290	18.050	19.535	46.222	46.614	35.982	34.474	34.017	44.167
11.997	13.272	6.401	-11.609	6.908	1.618	7.243	36.963	31.472	21.115	20.518	17.401	35.422
12.047	14.537	-2.060	1.769	30.453	22.469	31.705	35.857	6.248	8.652	10.693	47.447	75.217
4.7832	5.3234	5.5146	5.7620	8.6187	8.3514	8.3142	8.2898	8.2790	8.2783	8.2785	8.2771	8.2770
1.2497	1.2862	1.3526	1.5092	1.7732	1.9348	2.0134	1.9968	1.9146	1.8515	1.8323	1.8059	1.7880
100.0	106.7	115.2	131.9	158.2	179.0	189.6	191.2	186.6	182.5	184.2	186.4	185.8
51.8	55.0	58.7	72.8	87.0	100.0	102.9	102.6	98.4	96.0	98.7	97.4	95.3
58.3	60.0	63.2	71.6	87.1	100.0	106.1	106.9	104.2	101.0	99.5	98.7	97.4
3.80	9.20	14.20	13.50	12.60	10.50	9.60	8.80	7.80	7.10	8.00	7.50	8.00
1.48	1.37	1.23	1.16	1.14	1.09	1.05	1.03	0.96	0.95	0.71	0.73	0.67
4.1	6.2	6.8	24.0	19.5	14.9	2.9	-0.3	-4.1	-2.4	2.8	-1.3	-2.2
2.1	2.9	5.4	13.2	21.7	14.8	6.1	0.8	-2.6	-3.0	-1.5	-0.8	-1.3



## Original Table (Energy Demand and Supply) of China in 2002

Year:2002

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	138,000.00	10 <sup>4</sup> T	0.6786	10 <sup>4</sup> TCE/10 <sup>4</sup> T	93,644.73	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	16,700.00	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	22,664.74	10 <sup>4</sup> TCE
CRUDE OIL	16,700.00	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	22,664.74	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	32,661.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	3,909.52	10 <sup>4</sup> TCE
NATURAL GAS	32,661.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	3,909.52	10 <sup>4</sup> TCE
HYDRO POWER	287,974.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	3,539.20	10 <sup>4</sup> TCE
NUCLEAR POWER	25,127.00	GWh	0.0372	10 <sup>4</sup> TCE/GWh	935.44	10 <sup>4</sup> TCE
TOTAL PRODUCTION					124,693.63	10 <sup>4</sup> TCE
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						10 <sup>4</sup> TCE
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						10 <sup>4</sup> TCE
<b>STOCK CHANGE</b>						
COAL	-1,131.43	10 <sup>4</sup> T	0.6786	10 <sup>4</sup> TCE/10 <sup>4</sup> T	-767.77	10 <sup>4</sup> TCE
COKE	-65.79	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	-60.71	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	-105.19	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	-142.76	10 <sup>4</sup> TCE
CRUDE OIL	-105.19	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	-142.76	10 <sup>4</sup> TCE
LPG	6.28	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	10.23	10 <sup>4</sup> TCE
MOGAS	59.33	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	82.93	10 <sup>4</sup> TCE
KEROSENE	5.28	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	7.38	10 <sup>4</sup> TCE
DIESEL OIL	82.20	10 <sup>4</sup> T	1.3843	10 <sup>4</sup> TCE/10 <sup>4</sup> T	113.79	10 <sup>4</sup> TCE
FUEL OIL	47.07	10 <sup>4</sup> T	1.3571	10 <sup>4</sup> TCE/10 <sup>4</sup> T	63.88	10 <sup>4</sup> TCE
TOTAL STOCK CHANGE					-693.04	10 <sup>4</sup> TCE
<b>IMPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	6,940.64	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	9,419.62	10 <sup>4</sup> TCE
CRUDE OIL	6,940.64	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	9,419.62	10 <sup>4</sup> TCE
LPG	626.16	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,019.76	10 <sup>4</sup> TCE
MOGAS		10 <sup>4</sup> T	1.4714	10 <sup>4</sup> TCE/10 <sup>4</sup> T		10 <sup>4</sup> TCE
KEROSENE	214.53	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	299.87	10 <sup>4</sup> TCE
DIESEL OIL	47.72	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	66.06	10 <sup>4</sup> TCE
FUEL OIL	1,659.66	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,252.44	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	384.32	10 <sup>4</sup> T	1.2452	10 <sup>4</sup> TCE/10 <sup>4</sup> T	478.57	10 <sup>4</sup> TCE
ELECTRICITY	2,300.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	28.28	10 <sup>4</sup> TCE
TOTAL IMPORTS					14,330.53	10 <sup>4</sup> TCE
<b>EXPORTS</b>						
COAL	8,389.56	10 <sup>4</sup> T	0.7083	10 <sup>4</sup> TCE/10 <sup>4</sup> T	5,942.48	10 <sup>4</sup> TCE
COKE	1,357.02	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,252.29	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	766.46	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,040.22	10 <sup>4</sup> TCE
CRUDE OIL	766.46	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,040.22	10 <sup>4</sup> TCE
LPG	5.62	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	9.15	10 <sup>4</sup> TCE
MOGAS	612.20	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	855.75	10 <sup>4</sup> TCE
KEROSENE	169.64	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	237.13	10 <sup>4</sup> TCE
DIESEL OIL	123.69	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	171.22	10 <sup>4</sup> TCE
FUEL OIL	63.91	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	86.74	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	246.16	10 <sup>4</sup> T	1.2453	10 <sup>4</sup> TCE/10 <sup>4</sup> T	306.53	10 <sup>4</sup> TCE
ELECTRICITY	9,704.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	119.26	10 <sup>4</sup> TCE
TOTAL EXPORTS					10,020.76	10 <sup>4</sup> TCE
<b>INTERNATIONAL MARINE BUNKERS</b>						
TOTAL PRIMARY ENERGY SUPPLY					128,310.36	10 <sup>4</sup> TCE
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	18,209.72	10 <sup>5</sup> T	0.8248	10 <sup>4</sup> TCE/10 <sup>5</sup> T	15,019.32	10 <sup>4</sup> TCE
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	21,580.22	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	29,288.02	10 <sup>4</sup> TCE
CRUDE OIL	21,580.22	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	29,288.02	10 <sup>4</sup> TCE
<b>GAS PROCESSING</b>						
COAL	973.20	10 <sup>4</sup> T	0.7862	10 <sup>4</sup> TCE/10 <sup>4</sup> T	765.09	10 <sup>4</sup> TCE
COKE	137.35	10 <sup>4</sup> T	0.9229	10 <sup>4</sup> TCE/10 <sup>4</sup> T	126.75	10 <sup>4</sup> TCE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	73,073.73	10 <sup>4</sup> T	0.6771	10 <sup>4</sup> TCE/10 <sup>4</sup> T	49,479.98	10 <sup>4</sup> TCE
COKE OVEN GAS	18.51	10 <sup>4</sup> T	5.5287	10 <sup>4</sup> TCE/10 <sup>4</sup> T	102.34	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	91.09	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	123.63	10 <sup>4</sup> TCE
CRUDE OIL	91.09	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	123.63	10 <sup>4</sup> TCE
REFINERY GAS	133.46	10 <sup>4</sup> T	1.4928	10 <sup>4</sup> TCE/10 <sup>4</sup> T	199.23	10 <sup>4</sup> TCE
LPG	1.54	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2.51	10 <sup>4</sup> TCE
DIESEL OIL	225.99	10 <sup>4</sup> T	1.3843	10 <sup>4</sup> TCE/10 <sup>4</sup> T	312.83	10 <sup>4</sup> TCE
FUEL OIL	1,179.32	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,600.54	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	64.13	10 <sup>4</sup> T	1.2453	10 <sup>4</sup> TCE/10 <sup>4</sup> T	79.86	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	2,807.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	335.99	10 <sup>4</sup> TCE
NATURAL GAS	2,807.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	335.99	10 <sup>4</sup> TCE
TOWN GAS	12,392.00	10 <sup>6</sup> CM	0.0263	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	326.24	10 <sup>4</sup> TCE
HYDRO POWER	287,974.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	3,539.20	10 <sup>4</sup> TCE
NUCLEAR POWER	25,127.00	GWh	0.0372	10 <sup>4</sup> TCE/GWh	935.44	10 <sup>4</sup> TCE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	14,032.81	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	12,949.90	10 <sup>4</sup> TCE
COKE OVEN GAS	25,959.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,425.15	10 <sup>4</sup> TCE
BLAST FURNACE GAS	1,500.00	10 <sup>6</sup> CM	0.0259	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	38.82	10 <sup>4</sup> TCE

Original Table (Energy Demand and Supply) of China in 2002 (Continued)

Year:2002

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>BRIQUETTES</b>	830.00	10 <sup>4</sup> T	0.5768	10 <sup>4</sup> TCE/10 <sup>4</sup> T	478.78	10 <sup>4</sup> TCE
<b>REFINING</b>						
REFINERY GAS	695.89	10 <sup>4</sup> T	1.4928	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,038.85	10 <sup>4</sup> TCE
LPG	1,036.79	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,688.50	10 <sup>4</sup> TCE
MOGAS	4,320.76	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	6,039.68	10 <sup>4</sup> TCE
KEROSENE	826.11	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,154.76	10 <sup>4</sup> TCE
DIESEL OIL	7,706.10	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	10,667.14	10 <sup>4</sup> TCE
FUEL OIL	1,845.50	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,504.65	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	4,257.49	10 <sup>4</sup> T	1.2453	10 <sup>4</sup> TCE/10 <sup>4</sup> T	5,301.68	10 <sup>4</sup> TCE
<b>GAS RECOVERING</b>						
COKE	220.53	10 <sup>4</sup> T	0.9229	10 <sup>4</sup> TCE/10 <sup>4</sup> T	203.52	10 <sup>4</sup> TCE
TOWN GAS	60,729.00	10 <sup>6</sup> CM	0.0263	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,598.81	10 <sup>4</sup> TCE
COKE OVEN GAS	275.00	10 <sup>6</sup> CM	0.0553	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	15.20	10 <sup>4</sup> TCE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	1,327,376.28	GWh	0.0123	10 <sup>4</sup> TCE/GWh	16,313.46	10 <sup>4</sup> TCE
HYDRO POWER	287,974.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	3,539.20	10 <sup>4</sup> TCE
NUCLEAR POWER	25,127.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	308.81	10 <sup>4</sup> TCE
HEAT	164,190.77	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	5,598.91	10 <sup>4</sup> TCE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COAL	5,096.85	10 <sup>4</sup> T	0.5824	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,968.15	10 <sup>4</sup> TCE
COKE	98.63	10 <sup>4</sup> T	0.8617	10 <sup>4</sup> TCE/10 <sup>4</sup> T	84.99	10 <sup>4</sup> TCE
COKE OVEN GAS	2,056.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	112.87	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	746.09	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	993.01	10 <sup>4</sup> TCE
CRUDE OIL	746.09	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	993.01	10 <sup>4</sup> TCE
REFINERY GAS	455.19	10 <sup>4</sup> T	1.4928	10 <sup>4</sup> TCE/10 <sup>4</sup> T	679.52	10 <sup>4</sup> TCE
LPG	147.82	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	240.74	10 <sup>4</sup> TCE
MOGAS	110.25	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	154.11	10 <sup>4</sup> TCE
KEROSENE	23.89	10 <sup>4</sup> T	1.3977	10 <sup>4</sup> TCE/10 <sup>4</sup> T	33.39	10 <sup>4</sup> TCE
DIESEL OIL	385.86	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	534.09	10 <sup>4</sup> TCE
FUEL OIL	513.72	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	697.21	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	8,087.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	968.00	10 <sup>4</sup> TCE
NATURAL GAS	8,087.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	968.00	10 <sup>4</sup> TCE
TOWN GAS	570.00	10 <sup>6</sup> CM	0.2587	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	147.46	10 <sup>4</sup> TCE
ELECTRICITY	365,585.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	4,493.05	10 <sup>4</sup> TCE
HEAT	39,012.26	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	1,330.32	10 <sup>4</sup> TCE
TOTAL LOSSES AND OWN USE					13,436.91	10 <sup>4</sup> TCE
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	42,692.41	10 <sup>4</sup> T	0.6161	10 <sup>4</sup> TCE/10 <sup>4</sup> T	26,301.73	10 <sup>4</sup> TCE
COKE	12,107.93	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	11,173.56	10 <sup>4</sup> TCE
COKE OVEN GAS	22,482.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,234.26	10 <sup>4</sup> TCE
BRIQUETTES	835.70	10 <sup>4</sup> T	0.5768	10 <sup>4</sup> TCE/10 <sup>4</sup> T	482.07	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	123.65	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	167.81	10 <sup>4</sup> TCE
CRUDE OIL	123.65	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	167.81	10 <sup>4</sup> TCE
REFINERY GAS	114.81	10 <sup>4</sup> T	1.4928	10 <sup>4</sup> TCE/10 <sup>4</sup> T	171.39	10 <sup>4</sup> TCE
LPG	1,469.03	10 <sup>4</sup> T	1.6286	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,392.44	10 <sup>4</sup> TCE
MOGAS	3,638.71	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	5,086.27	10 <sup>4</sup> TCE
KEROSENE	895.31	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,251.49	10 <sup>4</sup> TCE
DIESEL OIL	7,055.30	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	9,765.59	10 <sup>4</sup> TCE
FUEL OIL	2,161.92	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,934.09	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	1,625.34	10 <sup>4</sup> T	1.2453	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,023.97	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	18,290.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	2,189.33	10 <sup>4</sup> TCE
NATURAL GAS	18,290.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	2,189.33	10 <sup>4</sup> TCE
TOWN GAS	47,753.00	10 <sup>6</sup> CM	0.0258	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,233.46	10 <sup>4</sup> TCE
HEAT	125,173.17	10 <sup>10</sup> Kj	0.0304	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	3,805.61	10 <sup>4</sup> TCE
ELECTRICITY	1,263,865.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	15,532.89	10 <sup>4</sup> TCE
TOTAL					85,745.97	10 <sup>4</sup> TCE
<b>AGRICULTURE</b>						
COAL	1,600.00	10 <sup>4</sup> T	0.6161	10 <sup>4</sup> TCE/10 <sup>4</sup> T	985.72	10 <sup>4</sup> TCE
COKE	140.98	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	130.10	10 <sup>4</sup> TCE
LPG		10 <sup>4</sup> T	1.7142	10 <sup>4</sup> TCE/10 <sup>4</sup> T		10 <sup>4</sup> TCE
MOGAS	187.93	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	262.69	10 <sup>4</sup> TCE
KEROSENE	1.40	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1.96	10 <sup>4</sup> TCE
DIESEL OIL	1,484.31	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,054.65	10 <sup>4</sup> TCE
FUEL OIL	0.41	10 <sup>4</sup> T	1.3571	10 <sup>4</sup> TCE/10 <sup>4</sup> T	0.56	10 <sup>4</sup> TCE
HEAT	65.83	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	2.24	10 <sup>4</sup> TCE
ELECTRICITY	77,623.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	954.76	10 <sup>4</sup> TCE
TOTAL					4,392.68	10 <sup>4</sup> TCE
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	8,411.72	10 <sup>4</sup> T	0.6161	10 <sup>4</sup> TCE/10 <sup>4</sup> T	5,182.25	10 <sup>4</sup> TCE
COKE	177.72	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	164.01	10 <sup>4</sup> TCE
COKE OVEN GAS	3,792.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	208.18	10 <sup>4</sup> TCE
BRIQUETTES	824.97	10 <sup>4</sup> T	0.5768	10 <sup>4</sup> TCE/10 <sup>4</sup> T	475.88	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	0.12	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	0.16	10 <sup>4</sup> TCE
CRUDE OIL	0.12	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	0.16	10 <sup>4</sup> TCE
LPG	1,231.64	10 <sup>4</sup> T	1.6285	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,005.71	10 <sup>4</sup> TCE
MOGAS	388.02	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	542.39	10 <sup>4</sup> TCE
KEROSENE	73.70	10 <sup>4</sup> T	1.3979	10 <sup>4</sup> TCE/10 <sup>4</sup> T	103.02	10 <sup>4</sup> TCE
DIESEL OIL	364.71	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	504.84	10 <sup>4</sup> TCE
FUEL OIL	12.30	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	16.69	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	5,726.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	685.41	10 <sup>4</sup> TCE

Original Table (Energy Demand and Supply) of China in 2002 (Continued)

Year:2002

China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NATURAL GAS	5,726.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	685.41	10 <sup>4</sup> TCE
TOWN GAS	9,345.00	10 <sup>6</sup> CM	0.0259	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	241.88	10 <sup>4</sup> TCE
HEAT	28,079.49	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	957.51	10 <sup>4</sup> TCE
ELECTRICITY	250,142.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	3,075.26	10 <sup>4</sup> TCE
<b>TOTAL</b>					14,163.19	10 <sup>4</sup> TCE
<b>OTHERS</b>						
COAL	767.06	10 <sup>4</sup> T	0.6161	10 <sup>4</sup> TCE/10 <sup>4</sup> T	472.57	10 <sup>4</sup> TCE
COKE	12.34	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	11.39	10 <sup>4</sup> TCE
COKE OVEN GAS	267.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	14.66	10 <sup>4</sup> TCE
BRIQUETTES	3.86	10 <sup>4</sup> T	0.5768	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2.23	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	1.29	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1.72	10 <sup>4</sup> TCE
CRUDE OIL	1.29	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1.72	10 <sup>4</sup> TCE
LPG	31.92	10 <sup>4</sup> T	1.6285	10 <sup>4</sup> TCE/10 <sup>4</sup> T	51.98	10 <sup>4</sup> TCE
MOGAS	916.29	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,280.81	10 <sup>4</sup> TCE
KEROSENE	140.00	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	195.69	10 <sup>4</sup> TCE
DIESEL OIL	870.00	10 <sup>4</sup> T	1.3843	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,204.30	10 <sup>4</sup> TCE
FUEL OIL	19.10	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	25.92	10 <sup>4</sup> TCE
HEAT	2,759.46	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	94.10	10 <sup>4</sup> TCE
ELECTRICITY	75,850.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	932.96	10 <sup>4</sup> TCE
<b>TOTAL</b>					4,288.32	10 <sup>4</sup> TCE
<b>INDUSTRY</b>						
COAL	24,295.77	10 <sup>4</sup> T	0.6161	10 <sup>4</sup> TCE/10 <sup>4</sup> T	14,968.02	10 <sup>4</sup> TCE
COKE	10,940.65	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	10,096.36	10 <sup>4</sup> TCE
COKE OVEN GAS	18,421.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,011.31	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	100.39	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	133.61	10 <sup>4</sup> TCE
CRUDE OIL	100.39	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	133.61	10 <sup>4</sup> TCE
REFINERY GAS	114.81	10 <sup>4</sup> T	1.4928	10 <sup>4</sup> TCE/10 <sup>4</sup> T	171.39	10 <sup>4</sup> TCE
LPG	157.71	10 <sup>4</sup> T	1.6285	10 <sup>4</sup> TCE/10 <sup>4</sup> T	256.83	10 <sup>4</sup> TCE
MOGAS	511.65	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	715.19	10 <sup>4</sup> TCE
KEROSENE	60.83	10 <sup>4</sup> T	1.3977	10 <sup>4</sup> TCE/10 <sup>4</sup> T	85.02	10 <sup>4</sup> TCE
DIESEL OIL	1,093.48	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,513.54	10 <sup>4</sup> TCE
FUEL OIL	1,238.91	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,681.41	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	12,340.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,477.11	10 <sup>4</sup> TCE
NATURAL GAS	12,340.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	1,477.11	10 <sup>4</sup> TCE
TOWN GAS	38,387.00	10 <sup>6</sup> CM	0.0259	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	993.58	10 <sup>4</sup> TCE
HEAT	93,275.99	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	3,180.71	10 <sup>4</sup> TCE
ELECTRICITY	810,036.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	9,955.33	10 <sup>4</sup> TCE
<b>TOTAL</b>					46,239.42	10 <sup>4</sup> TCE
<b>TRANSPORT</b>						
COAL	1,054.96	10 <sup>4</sup> T	0.6161	10 <sup>4</sup> TCE/10 <sup>4</sup> T	649.93	10 <sup>4</sup> TCE
COKE	11.44	10 <sup>4</sup> T	0.9228	10 <sup>4</sup> TCE/10 <sup>4</sup> T	10.56	10 <sup>4</sup> TCE
COKE OVEN GAS	2.00	10 <sup>6</sup> CM	0.0549	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	0.11	10 <sup>4</sup> TCE
BRIQUETTES	0.50	10 <sup>4</sup> T	0.5768	10 <sup>4</sup> TCE/10 <sup>4</sup> T	0.29	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	17.65	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	23.49	10 <sup>4</sup> TCE
CRUDE OIL	17.65	10 <sup>4</sup> T	1.3310	10 <sup>4</sup> TCE/10 <sup>4</sup> T	23.49	10 <sup>4</sup> TCE
LPG	20.00	10 <sup>4</sup> T	1.6285	10 <sup>4</sup> TCE/10 <sup>4</sup> T	32.57	10 <sup>4</sup> TCE
MOGAS	1,503.50	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	2,101.63	10 <sup>4</sup> TCE
KEROSENE	616.75	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	862.11	10 <sup>4</sup> TCE
DIESEL OIL	2,964.81	10 <sup>4</sup> T	1.3842	10 <sup>4</sup> TCE/10 <sup>4</sup> T	4,104.02	10 <sup>4</sup> TCE
FUEL OIL	872.10	10 <sup>4</sup> T	1.3572	10 <sup>4</sup> TCE/10 <sup>4</sup> T	1,183.58	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	156.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	18.68	10 <sup>4</sup> TCE
NATURAL GAS	156.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	18.68	10 <sup>4</sup> TCE
TOWN GAS	21.00	10 <sup>6</sup> CM	0.0259	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	0.54	10 <sup>4</sup> TCE
HEAT	810.73	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	27.65	10 <sup>4</sup> TCE
ELECTRICITY	33,800.00	GWh	0.0123	10 <sup>4</sup> TCE/GWh	415.40	10 <sup>4</sup> TCE
<b>TOTAL</b>					9,430.56	10 <sup>4</sup> TCE
<b>NON-ENERGY</b>						
COAL	889.61	10 <sup>4</sup> T	0.5770	10 <sup>4</sup> TCE/10 <sup>4</sup> T	513.33	10 <sup>4</sup> TCE
COKE	801.42	10 <sup>4</sup> T	0.8632	10 <sup>4</sup> TCE/10 <sup>4</sup> T	691.76	10 <sup>4</sup> TCE
REFINERY GAS	44.75	10 <sup>4</sup> T	1.4928	10 <sup>4</sup> TCE/10 <sup>4</sup> T	66.80	10 <sup>4</sup> TCE
MOGAS	9.00	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	12.58	10 <sup>4</sup> TCE
KEROSENE	2.63	10 <sup>4</sup> T	1.3978	10 <sup>4</sup> TCE/10 <sup>4</sup> T	3.68	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	4,331.52	10 <sup>4</sup> T	1.2453	10 <sup>4</sup> TCE/10 <sup>4</sup> T	5,393.87	10 <sup>4</sup> TCE
NATURAL GAS AND LNG	6,000.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	718.41	10 <sup>4</sup> TCE
NATURAL GAS	6,000.00	10 <sup>6</sup> CM	0.1197	10 <sup>4</sup> TCE/10 <sup>6</sup> CM	718.41	10 <sup>4</sup> TCE
<b>TOTAL NON-ENERGY USE</b>					7,400.43	10 <sup>4</sup> TCE

## Original Table (Energy Demand and Supply) of China in 2002 (Continued)

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
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 2002

	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 2002  
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

## Original Table (Disaggregated Final Energy Demand) of China in 2002

China	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
	<b>I INDUSTRIAL SECTOR</b>							
<b>1.1 IRON AND STEEL (*1)</b>								
COAL	3,448.55	104tn	0.6485	10 <sup>4</sup> TCE/104tn	2,236.38	10 <sup>4</sup> TCE		
COKE	9,305.45	104tn	0.9714	10 <sup>4</sup> TCE/104tn	9,039.31	10 <sup>4</sup> TCE		
COKE OVEN GAS	16,592.00	106cu.m	0.0610	10 <sup>4</sup> TCE/106cu.m	1,012.11	10 <sup>4</sup> TCE		
BRIQUETTES	4.29	104tn	0.6072	10 <sup>4</sup> TCE/104tn	2.60	10 <sup>4</sup> TCE		
CRUDE OIL AND NGL/CONDENSATE	13.47	104tn	1.4286	10 <sup>4</sup> TCE/104tn	19.24	10 <sup>4</sup> TCE		
CRUDE OIL	13.47	104tn	1.4286	10 <sup>4</sup> TCE/104tn	19.24	10 <sup>4</sup> TCE		
LPG	0.70	104tn	1.7143	10 <sup>4</sup> TCE/104tn	1.20	10 <sup>4</sup> TCE		
MOGAS	37.40	104tn	1.4714	10 <sup>4</sup> TCE/104tn	55.03	10 <sup>4</sup> TCE		
KEROSENE	6.49	104tn	1.4714	10 <sup>4</sup> TCE/104tn	9.55	10 <sup>4</sup> TCE		
DIESEL OIL	95.80	104tn	1.4570	10 <sup>4</sup> TCE/104tn	139.58	10 <sup>4</sup> TCE		
FUEL OIL	235.45	104tn	1.4286	10 <sup>4</sup> TCE/104tn	336.36	10 <sup>4</sup> TCE		
OTHER PETROLEUM PRODUCTS	0.72	104tn	1.3108	10 <sup>4</sup> TCE/104tn	0.94	10 <sup>4</sup> TCE		
NATURAL GAS/LNG	230.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	30.59	10 <sup>4</sup> TCE		
NATURAL GAS	230.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	30.59	10 <sup>4</sup> TCE		
HEAT	13,252.97	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	451.93	10 <sup>4</sup> TCE		
ELECTRICITY	1,398.66	GWh	0.0123	10 <sup>4</sup> TCE/GWh	17.19	10 <sup>4</sup> TCE		
TOTAL					13,352.03	10 <sup>4</sup> TCE		
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>								
COAL	4,544.49	104tn	0.6485	10 <sup>4</sup> TCE/104tn	2,947.10	10 <sup>4</sup> TCE		
COKE	1,162.00	104tn	0.9714	10 <sup>4</sup> TCE/104tn	1,128.77	10 <sup>4</sup> TCE		
COKE OVEN GAS	1,226.00	106cu.m	0.0610	10 <sup>4</sup> TCE/106cu.m	74.79	10 <sup>4</sup> TCE		
BRIQUETTES	1.50	104tn	0.6072	10 <sup>4</sup> TCE/104tn	0.91	10 <sup>4</sup> TCE		
CRUDE OIL AND NGL/CONDENSATE	64.90	104tn	1.4286	10 <sup>4</sup> TCE/104tn	92.72	10 <sup>4</sup> TCE		
CRUDE OIL	64.90	104tn	1.4286	10 <sup>4</sup> TCE/104tn	92.72	10 <sup>4</sup> TCE		
REFINERY GAS	47.15	104tn	1.5713	10 <sup>4</sup> TCE/104tn	74.09	10 <sup>4</sup> TCE		
LPG	70.46	104tn	1.7143	10 <sup>4</sup> TCE/104tn	120.79	10 <sup>4</sup> TCE		
MOGAS	55.03	104tn	1.4714	10 <sup>4</sup> TCE/104tn	80.97	10 <sup>4</sup> TCE		
KEROSENE	10.25	104tn	1.4714	10 <sup>4</sup> TCE/104tn	15.08	10 <sup>4</sup> TCE		
DIESEL OIL	122.83	104tn	1.4570	10 <sup>4</sup> TCE/104tn	178.96	10 <sup>4</sup> TCE		
FUEL OIL	315.49	104tn	1.4286	10 <sup>4</sup> TCE/104tn	450.71	10 <sup>4</sup> TCE		
OTHER PETROLEUM PRODUCTS	1,168.80	104tn	1.3108	10 <sup>4</sup> TCE/104tn	1,532.06	10 <sup>4</sup> TCE		
NATURAL GAS/LNG	10,202.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	1,356.87	10 <sup>4</sup> TCE		
NATURAL GAS	10,202.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	1,356.87	10 <sup>4</sup> TCE		
TOWN GAS	300.00	106cu.m	0.0287	10 <sup>4</sup> TCE/106cu.m	8.61	10 <sup>4</sup> TCE		
HEAT	28,014.97	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	955.31	10 <sup>4</sup> TCE		
ELECTRICITY	1,355.56	GWh	0.0123	10 <sup>4</sup> TCE/GWh	16.66	10 <sup>4</sup> TCE		
TOTAL					9,034.39	10 <sup>4</sup> TCE		
<b>1.3 NON-FERROUS METALS (*3)</b>								
COAL	745.28	104tn	0.6485	10 <sup>4</sup> TCE/104tn	483.31	10 <sup>4</sup> TCE		
COKE	251.25	104tn	0.9714	10 <sup>4</sup> TCE/104tn	244.06	10 <sup>4</sup> TCE		
COKE OVEN GAS	19.00	106cu.m	0.0610	10 <sup>4</sup> TCE/106cu.m	1.16	10 <sup>4</sup> TCE		
BRIQUETTES	0.08	104tn	0.6072	10 <sup>4</sup> TCE/104tn	0.05	10 <sup>4</sup> TCE		
CRUDE OIL AND NGL/CONDENSATE	1.00	104tn	1.4286	10 <sup>4</sup> TCE/104tn	1.43	10 <sup>4</sup> TCE		
CRUDE OIL	1.00	104tn	1.4286	10 <sup>4</sup> TCE/104tn	1.43	10 <sup>4</sup> TCE		
LPG	0.85	104tn	1.7143	10 <sup>4</sup> TCE/104tn	1.46	10 <sup>4</sup> TCE		
MOGAS	15.89	104tn	1.4714	10 <sup>4</sup> TCE/104tn	23.38	10 <sup>4</sup> TCE		
KEROSENE	1.94	104tn	1.4714	10 <sup>4</sup> TCE/104tn	2.85	10 <sup>4</sup> TCE		
DIESEL OIL	56.33	104tn	1.4570	10 <sup>4</sup> TCE/104tn	82.07	10 <sup>4</sup> TCE		
FUEL OIL	66.48	104tn	1.4286	10 <sup>4</sup> TCE/104tn	94.97	10 <sup>4</sup> TCE		
OTHER PETROLEUM PRODUCTS	29.12	104tn	1.3108	10 <sup>4</sup> TCE/104tn	38.17	10 <sup>4</sup> TCE		
NATURAL GAS/LNG	66.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	8.78	10 <sup>4</sup> TCE		
NATURAL GAS	66.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	8.78	10 <sup>4</sup> TCE		
TOWN GAS	805.00	106cu.m	0.0287	10 <sup>4</sup> TCE/106cu.m	23.10	10 <sup>4</sup> TCE		
HEAT	7,972.01	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	271.85	10 <sup>4</sup> TCE		
ELECTRICITY	911.81	GWh	0.0123	10 <sup>4</sup> TCE/GWh	11.21	10 <sup>4</sup> TCE		
TOTAL					1,287.86	10 <sup>4</sup> TCE		
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>								
COAL	8,926.33	104tn	0.6485	10 <sup>4</sup> TCE/104tn	5,788.73	10 <sup>4</sup> TCE		
COKE	404.32	104tn	0.9714	10 <sup>4</sup> TCE/104tn	392.76	10 <sup>4</sup> TCE		
COKE OVEN GAS	336.00	106cu.m	0.0610	10 <sup>4</sup> TCE/106cu.m	20.50	10 <sup>4</sup> TCE		
BRIQUETTES	0.20	104tn	0.6072	10 <sup>4</sup> TCE/104tn	0.12	10 <sup>4</sup> TCE		
CRUDE OIL AND NGL/CONDENSATE	9.61	104tn	1.4286	10 <sup>4</sup> TCE/104tn	13.73	10 <sup>4</sup> TCE		
CRUDE OIL	9.61	104tn	1.4286	10 <sup>4</sup> TCE/104tn	13.73	10 <sup>4</sup> TCE		
LPG	49.38	104tn	1.7143	10 <sup>4</sup> TCE/104tn	84.65	10 <sup>4</sup> TCE		
MOGAS	64.27	104tn	1.4714	10 <sup>4</sup> TCE/104tn	94.57	10 <sup>4</sup> TCE		
KEROSENE	2.14	104tn	1.4714	10 <sup>4</sup> TCE/104tn	3.15	10 <sup>4</sup> TCE		
DIESEL OIL	331.01	104tn	1.4570	10 <sup>4</sup> TCE/104tn	482.28	10 <sup>4</sup> TCE		
FUEL OIL	335.21	104tn	1.4286	10 <sup>4</sup> TCE/104tn	478.88	10 <sup>4</sup> TCE		

Original Table (Disaggregated Final Energy Demand) of China in 2002 (Continued)

2002						
China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
OTHER PETROLEUM PRODUCTS	26.60	104tn	1.3108	10 <sup>4</sup> TCE/104tn	34.87	10 <sup>4</sup> TCE
NATURAL GAS/LNG	350.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	46.55	10 <sup>4</sup> TCE
NATURAL GAS	350.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	46.55	10 <sup>4</sup> TCE
TOWN GAS	764.00	106cu.m	0.0287	10 <sup>4</sup> TCE/106cu.m	21.93	10 <sup>4</sup> TCE
HEAT	2,888.78	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	98.51	10 <sup>4</sup> TCE
ELECTRICITY	975.19	GWh	0.0123	10 <sup>4</sup> TCE/GWh	11.99	10 <sup>4</sup> TCE
TOTAL					7,573.20	10 <sup>4</sup> TCE
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
COAL	1,223.88	104tn	0.6485	10 <sup>4</sup> TCE/104tn	793.69	10 <sup>4</sup> TCE
COKE	1.99	104tn	0.9714	10 <sup>4</sup> TCE/104tn	1.93	10 <sup>4</sup> TCE
COKE OVEN GAS	3.00	106cu.m	0.0610	10 <sup>4</sup> TCE/106cu.m	0.18	10 <sup>4</sup> TCE
BRIQUETTES		104tn	0.6072	10 <sup>4</sup> TCE/104tn		10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	0.50	104tn	1.4286	10 <sup>4</sup> TCE/104tn	0.71	10 <sup>4</sup> TCE
CRUDE OIL	0.50	104tn	1.4286	10 <sup>4</sup> TCE/104tn	0.71	10 <sup>4</sup> TCE
LPG	1.35	104tn	1.7143	10 <sup>4</sup> TCE/104tn	2.31	10 <sup>4</sup> TCE
MOGAS	22.16	104tn	1.4714	10 <sup>4</sup> TCE/104tn	32.61	10 <sup>4</sup> TCE
KEROSENE	8.94	104tn	1.4714	10 <sup>4</sup> TCE/104tn	13.15	10 <sup>4</sup> TCE
DIESEL OIL	36.05	104tn	1.4570	10 <sup>4</sup> TCE/104tn	52.52	10 <sup>4</sup> TCE
FUEL OIL	21.47	104tn	1.4286	10 <sup>4</sup> TCE/104tn	30.67	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	5.35	104tn	1.3108	10 <sup>4</sup> TCE/104tn	7.01	10 <sup>4</sup> TCE
NATURAL GAS/LNG	37.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	4.92	10 <sup>4</sup> TCE
NATURAL GAS	37.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	4.92	10 <sup>4</sup> TCE
TOWN GAS	2.00	106cu.m	0.0287	10 <sup>4</sup> TCE/106cu.m	0.06	10 <sup>4</sup> TCE
HEAT	6,471.40	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	220.67	10 <sup>4</sup> TCE
ELECTRICITY	318.77	GWh	0.0123	10 <sup>4</sup> TCE/GWh	3.92	10 <sup>4</sup> TCE
TOTAL					1,164.37	10 <sup>4</sup> TCE
<b>1.6 OTHER INDUSTRIES (*6)</b>						
COAL	5,407.24	104tn	0.6485	10 <sup>4</sup> TCE/104tn	3,506.60	10 <sup>4</sup> TCE
COKE	619.05	104tn	0.9714	10 <sup>4</sup> TCE/104tn	601.35	10 <sup>4</sup> TCE
COKE OVEN GAS	245.00	106cu.m	0.0610	10 <sup>4</sup> TCE/106cu.m	14.95	10 <sup>4</sup> TCE
CRUDE OIL AND NGL/CONDENSATE	10.91	104tn	1.4286	10 <sup>4</sup> TCE/104tn	15.59	10 <sup>4</sup> TCE
CRUDE OIL	10.91	104tn	1.4286	10 <sup>4</sup> TCE/104tn	15.59	10 <sup>4</sup> TCE
REFINERY GAS	67.66	104tn	1.5713	10 <sup>4</sup> TCE/104tn	106.31	10 <sup>4</sup> TCE
LPG	34.97	104tn	1.7143	10 <sup>4</sup> TCE/104tn	59.95	10 <sup>4</sup> TCE
MOGAS	316.90	104tn	1.4714	10 <sup>4</sup> TCE/104tn	466.29	10 <sup>4</sup> TCE
KEROSENE	31.07	104tn	1.4714	10 <sup>4</sup> TCE/104tn	45.72	10 <sup>4</sup> TCE
DIESEL OIL	451.46	104tn	1.4570	10 <sup>4</sup> TCE/104tn	657.78	10 <sup>4</sup> TCE
FUEL OIL	264.81	104tn	1.4286	10 <sup>4</sup> TCE/104tn	378.31	10 <sup>4</sup> TCE
OTHER PETROLEUM PRODUCTS	394.75	104tn	1.3108	10 <sup>4</sup> TCE/104tn	517.44	10 <sup>4</sup> TCE
NATURAL GAS/LNG	1,455.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	193.52	10 <sup>4</sup> TCE
NATURAL GAS	1,455.00	106cu.m	0.1330	10 <sup>4</sup> TCE/106cu.m	193.52	10 <sup>4</sup> TCE
TOWN GAS	36,516.00	106cu.m	0.0287	10 <sup>4</sup> TCE/106cu.m	1,048.01	10 <sup>4</sup> TCE
HEAT	34,675.86	10 <sup>10</sup> Kj	0.0341	10 <sup>4</sup> TCE/10 <sup>10</sup> Kj	1,182.45	10 <sup>4</sup> TCE
ELECTRICITY	3,140.37	GWh	0.0123	10 <sup>4</sup> TCE/GWh	38.60	10 <sup>4</sup> TCE
TOTAL					8,832.83	10 <sup>4</sup> TCE
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
TOTAL						10 <sup>4</sup> TCE
<b>2.2 ROAD</b>						
TOTAL						10 <sup>4</sup> TCE
<b>2.3 RAIL</b>						
TOTAL						10 <sup>4</sup> TCE
<b>2.4 INTERNAL NAVIGATION</b>						
TOTAL						10 <sup>4</sup> TCE
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
TOTAL						10 <sup>4</sup> TCE
<b>3.2 RESIDENTIAL</b>						
TOTAL						10 <sup>4</sup> TCE

## Original Table (Quarterly) of China in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	95,180	-	-	-
	FEB.	85,386	-	-	-
	MAR.	106,874	-	-	-
	<b>1st quarter</b>	287,440	-	-	-
	APR.	107,329	-	-	-
	MAY.	109,110	-	-	-
	JUN.	117,050	-	-	-
	<b>2nd quarter</b>	333,489	-	-	-
	JUL.	109,933	-	-	-
	AUG.	107,191	-	-	-
	SEP.	105,606	-	-	-
	<b>3rd quarter</b>	322,730	-	-	-
	OCT.	114,707	-	-	-
	NOV.	122,376	-	-	-
	DEC.	135,967	-	-	-
	<b>4th quarter</b>	373,050	-	-	-
	1,316,708	-	-	-	

Oil		Unit: 1,000bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	105,142						
	FEB.	96,009						
	MAR.	106,567						
	<b>1st quarter</b>	307,718						
	APR.	103,647						
	MAY.	106,677						
	JUN.	103,900						
	<b>2nd quarter</b>	314,224						
	JUL.	105,174						
	AUG.	105,347						
	SEP.	101,392						
	<b>3rd quarter</b>	311,914						
	OCT.	105,314						
	NOV.	101,859						
	DEC.	106,807						
	<b>4th quarter</b>	313,979						
	1,247,835	-	-	-	-	-	-	

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

		Natural Gas ( or LNG)			
		Unit: 1,000m <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	3,192,000	-	-	-
	FEB.	2,762,000	-	-	-
	MAR.	2,905,000	-	-	-
	<b>1st quarter</b>	8,859,000	-	-	-
	APR.	2,734,000	-	-	-
	MAY.	2,517,000	-	-	-
	JUN.	2,635,000	-	-	-
	<b>2nd quarter</b>	7,886,000	-	-	-
	JUL.	2,738,000	-	-	-
	AUG.	2,677,000	-	-	-
	SEP.	2,740,000	-	-	-
	<b>3rd quarter</b>	8,155,000	-	-	-
	OCT.	2,939,000	-	-	-
	NOV.	2,874,000	-	-	-
	DEC.	3,351,000	-	-	-
	<b>4th quarter</b>	9,164,000	-	-	-
	34,064,000	-	-	-	

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	137,899	-	-	-	-	-	-
	FEB.	125,803	-	-	-	-	-	-
	MAR.	145,806	-	-	-	-	-	-
	<b>1st quarter</b>	409,508	-	-	-	-	-	-
	APR.	142,719	-	-	-	-	-	-
	MAY.	145,397	-	-	-	-	-	-
	JUN.	151,426	-	-	-	-	-	-
	<b>2nd quarter</b>	439,542	-	-	-	-	-	-
	JUL.	169,930	-	-	-	-	-	-
	AUG.	170,029	-	-	-	-	-	-
	SEP.	158,457	-	-	-	-	-	-
	<b>3rd quarter</b>	498,416	-	-	-	-	-	-
	OCT.	158,109	-	-	-	-	-	-
	NOV.	162,460	-	-	-	-	-	-
	DEC.	171,058	-	-	-	-	-	-
	<b>4th quarter</b>	491,627	-	-	-	-	-	-
	1,839,093	-	-	-	-	-	-	

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.





## 3.6 Hong Kong, China

## Energy Balance Table of Hong Kong, China in 2001

	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
<b>1 Indigenous Production</b>	-	-	-	-	-	-	-	-	-
<b>2 Import</b>	4,818	-	-	12,834	412	584	3,381	-	5,043
<b>3 Export</b>	-8	-	-	-1,254	-25	-	-132	-	-96
<b>4 International Marine Bunkers</b>	-	-	-	-3,589	-	-	-	-	-1,077
<b>5 Stock Changes</b>	-253	-	-	-178	38	68	-543	29	-169
<b>6 Total Primary Energy Supply</b>	<b>4,556</b>	<b>-</b>	<b>-</b>	<b>7,814</b>	<b>425</b>	<b>652</b>	<b>2,706</b>	<b>29</b>	<b>3,701</b>
<b>7 Public Electricity</b>	-4,552	-	-	-37	-	-	-	-	-5
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-652	-	-652	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	-	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	0	-	-	0	0	0	0	0	0
<b>14 Total Final Energy Consumption</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>7,125</b>	<b>425</b>	<b>-</b>	<b>2,706</b>	<b>29</b>	<b>3,696</b>
<b>15 Industry Sector</b>	-	-	-	1,113	-	-	-	5	1,058
<b>16 Transport Sector</b>	-	-	-	5,889	425	-	2,706	-	2,638
<b>17 Other Sector</b>	-	-	-	123	-	-	-	25	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	123	-	-	-	25	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	-	-	-	-	-	-

## Energy Balance Table of Hong Kong, China 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
<b>1 Indigenous Production</b>	-	-	-	-	-	-	-	-	-
<b>2 Import</b>	5,229	-	-	13,205	382	580	3,409	-	4,979
<b>3 Export</b>	-2	-	-	-1,058	-33	-	-69	-	-117
<b>4 International Marine Bunkers</b>	-	-	-	-4,748	-	-	-	-	-1,989
<b>5 Stock Changes</b>	-158	-	-	244	19	67	-14	27	16
<b>6 Total Primary Energy Supply</b>	<b>5,069</b>	<b>-</b>	<b>-</b>	<b>7,642</b>	<b>368</b>	<b>647</b>	<b>3,325</b>	<b>27</b>	<b>2,889</b>
<b>7 Public Electricity</b>	-5,064	-	-	-42	-	-	-	-	-9
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-647	-	-647	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	-	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	0	-	-	0	-	-	0	-	0
<b>14 Total Final Energy Consumption</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>6,953</b>	<b>368</b>	<b>-</b>	<b>3,325</b>	<b>27</b>	<b>2,880</b>
<b>15 Industry Sector</b>	-	-	-	829	-	-	-	4	824
<b>16 Transport Sector</b>	-	-	-	5,967	368	-	3,325	-	2,055
<b>17 Other Sector</b>	-	-	-	157	-	-	-	23	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	157	-	-	-	23	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	-	-	-	-	-	-

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

Energy Balance Table of Hong Kong, China in 2001 (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	
-	-	-	-	-	-	-	-	-	-	-	-	-	
3,171	243	-	-	2,025	-	-	-	-	-	890	-	20,568	
-996	-4	-	-	-	-	-	-	-	-	-136	-	-1,398	
-2,511	-	-	-	-	-	-	-	-	-	-	-	-3,589	
397	1	-	-	-	-	-	-	-	-	-	-	-432	
61	241	-	-	2,025	-	-	-	-	-	754	-	15,150	
-33	-	-	-	-2,025	-	-	-	-	-	2,788	-	-3,826	
-	-	-	-	-	571	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-81	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-339	-	-339	
0	0	-	-	-	0	-	-	-	-	0	-	0	
28	241	-	-	-	571	-	-	-	-	3,204	-	10,904	
28	22	-	-	-	22	-	-	-	-	400	-	1,535	
-	120	-	-	-	-	-	-	-	-	-	-	5,889	
-	99	-	-	-	549	-	-	-	-	2,804	-	3,476	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	99	-	-	-	549	-	-	-	-	2,795	-	3,467	
-	-	-	-	-	-	-	-	-	-	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	
-	219	-	-	-	-	-	-	-	-	-	-	5,967	
-	135	-	-	-	551	-	-	-	-	2,890	-	3,599	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	135	-	-	-	551	-	-	-	-	2,881	-	3,590	
-	-	-	-	-	-	-	-	-	-	9	-	9	
-	-	-	-	-	-	-	-	-	-	-	-	-	

## Major Energy Indicators of Hong Kong, China

	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	5,294	6,589	7,000	7,013	7,951	8,504	9,553	10,060	10,650
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	6,195	7,642	8,016	8,021	9,855	10,394	11,602	13,836	12,918
Export	-199	-278	-317	-294	-855	-693	-1,113	-2,337	-2,123
Final Energy Consumption	3,464	4,219	4,470	4,330	4,969	5,261	6,079	6,338	6,689
Industry	1,040	1,314	1,482	1,335	1,496	1,633	1,862	1,827	1,516
Transport	1,512	1,723	1,737	1,658	2,012	2,013	2,476	2,634	3,136
Residential & Commercial	892	1,165	1,235	1,321	1,446	1,600	1,729	1,864	2,025
Agriculture	-	-	-	-	-	-	-	-	-
<b>Coal, Coal Products</b>									
Primary Energy Supply	20	1,988	2,719	3,232	3,941	4,794	5,256	5,596	6,008
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	21	2,067	2,689	3,324	3,845	4,812	5,563	5,961	5,362
Export	-1	-4	-1	-1	-1	-1	-1	-2	-1
Transformation Sector	-	-1,971	-2,702	-3,216	-3,926	-4,779	-5,244	-5,583	-5,996
Power Generation	-	-1,971	-2,702	-3,216	-3,926	-4,779	-5,244	-5,583	-5,996
Final Energy Consumption	20	17	16	16	16	15	12	13	12
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
<b>Petroleum Products</b>									
Primary Energy Supply	5,301	4,633	4,345	3,871	4,114	3,827	4,421	4,616	4,796
Import	6,174	5,575	5,327	4,697	6,010	5,582	6,038	7,876	7,556
Export	-172	-243	-252	-203	-750	-575	-988	-2,183	-1,967
Transformation Sector	-2,871	-1,765	-1,332	-1,097	-873	-495	-424	-509	-489
Power Generation	-2,789	-1,622	-1,160	-908	-638	-243	-120	-179	-126
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	2,430	2,868	3,012	2,773	3,240	3,332	3,997	4,106	4,304
Industry	674	907	1,033	880	978	1,052	1,259	1,214	908
Transport	1,512	1,723	1,737	1,658	2,012	2,013	2,476	2,634	3,136
Residential & Commercial	243	237	242	235	251	267	263	258	260
Agriculture	-	-	-	-	-	-	-	-	-
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	76	127	148	172	194	228	263	294	324
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	76	127	148	172	194	228	263	294	324
Industry	5	5	6	6	7	9	9	11	13
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	71	122	143	166	187	219	254	283	311
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	1,088	1,418	1,541	1,654	1,841	2,042	2,193	2,353	2,488
Thermal	1,088	1,418	1,541	1,654	1,841	2,042	2,193	2,353	2,488
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	939	1,207	1,294	1,370	1,519	1,687	1,806	1,925	2,049
Industry	361	402	443	450	511	573	594	601	596
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	578	805	851	920	1,008	1,114	1,212	1,323	1,454
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Hong Kong, China (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
11,430	12,701	13,286	13,044	13,078	13,287	13,184	15,507	16,347	15,109	15,150	15,323	
-	-	-	-	-	-	-	-	-	-	-	-	
13,614	16,546	18,611	19,197	22,159	23,102	24,839	25,905	23,686	19,786	20,568	21,233	
-2,701	-3,530	-5,019	-5,160	-7,837	-8,493	-9,803	-8,168	-3,373	-1,557	-1,398	-1,247	
7,044	8,023	8,437	9,236	9,275	9,301	9,564	11,497	12,664	11,204	10,904	10,805	
1,370	1,720	1,468	1,516	1,373	1,280	1,245	1,776	2,179	1,714	1,535	1,235	
3,494	3,980	4,493	5,058	5,132	5,097	5,309	6,497	7,256	6,088	5,889	5,967	
2,167	2,312	2,456	2,645	2,754	2,908	2,995	3,211	3,216	3,389	3,467	3,590	
-	-	-	-	-	-	-	-	-	-	-	-	
6,516	6,947	7,171	5,553	5,751	4,485	3,662	4,240	3,550	4,125	4,556	5,069	
-	-	-	-	-	-	-	-	-	-	-	-	
5,783	6,131	7,099	5,074	5,467	4,066	3,431	4,260	3,836	3,658	4,818	5,229	
-1	-2	-1	-1	-1	-1	-2	-0	-1	-24	-8	-2	
-6,504	-6,936	-7,159	-5,543	-5,742	-4,476	-3,655	-4,234	-3,544	-4,121	-4,552	-5,064	
-6,504	-6,936	-7,159	-5,543	-5,742	-4,476	-3,655	-4,234	-3,544	-4,121	-4,552	-5,064	
12	11	13	10	9	9	7	6	6	4	4	5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
5,177	6,180	6,502	6,932	6,789	6,789	6,747	8,639	9,798	8,202	7,814	7,642	
7,831	10,415	11,512	13,414	16,022	16,994	18,585	18,965	16,797	13,245	12,834	13,205	
-2,437	-3,102	-4,632	-5,008	-7,708	-8,446	-9,753	-8,116	-3,318	-1,431	-1,254	-1,058	
-670	-806	-873	-660	-694	-664	-685	-658	-662	-684	-689	-690	
-278	-366	-400	-124	-169	-114	-95	-75	-59	-37	-37	-42	
-	-	-	-	-	-	-	-	-	-	-	-	
4,506	5,371	5,628	6,270	6,227	6,077	6,270	7,981	9,135	7,518	7,125	6,953	
757	1,124	894	984	869	784	772	1,315	1,741	1,269	1,113	829	
3,494	3,980	4,493	5,058	5,132	5,097	5,309	6,497	7,256	6,088	5,889	5,967	
255	267	241	229	225	197	189	168	139	161	123	157	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	16	1,390	2,146	2,013	2,220	2,007	2,025	1,924	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	22	1,374	2,146	2,013	2,220	2,007	2,025	1,924	
-	-	-	-	-	-	-	-	-	-	-	-	
349	391	413	446	456	-896	-1,632	-1,498	-1,689	-1,447	-1,454	-1,351	
-	-	-	-	-16	-1,390	-2,146	-2,013	-2,220	-2,007	-2,025	-1,924	
349	391	413	446	472	494	514	515	531	560	571	573	
15	18	19	20	21	20	20	19	20	21	22	21	
-	-	-	-	-	-	-	-	-	-	-	-	
334	374	394	426	451	474	494	496	511	539	549	551	
-	-	-	-	-	-	-	-	-	-	-	-	
2,735	3,002	3,129	2,299	2,400	2,445	2,489	2,701	2,536	2,694	2,788	2,950	
2,735	3,002	3,129	2,299	2,400	2,445	2,489	2,701	2,536	2,694	2,788	2,950	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
2,177	2,249	2,384	2,509	2,567	2,720	2,772	2,996	2,992	3,121	3,204	3,275	
598	578	555	512	483	476	453	442	419	424	400	385	
-	-	-	-	-	-	-	-	-	-	-	-	
1,579	1,671	1,822	1,990	2,077	2,237	2,312	2,547	2,566	2,689	2,795	2,881	
-	-	-	-	-	-	-	-	-	-	-	-	

## Major Economic Indicators of Hong Kong, China

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	5.04	5.29	5.37	5.46	5.52	5.58	5.63	5.69
Gross Domestic Product *4								
Real Term (Billions of 1995 Price and 1995 USD)	58.13	69.39	76.18	76.33	84.79	95.78	103.41	106.06
Real Term (Billions of 1995 Price and 1995 PPP)	54.59	65.16	71.54	71.67	79.62	304.76	97.11	99.59
Nominal (Billions of Current USD)	28.58	29.38	32.93	35.03	40.24	49.54	58.58	67.58
GDP per Capita *4								
Real Term (1995 Price and 1995 USD)	11,537	13,129	14,186	13,989	15,350	17,161	18,377	18,652
Real Term (1995 Price and 1995 PPP)	10,833	12,329	13,322	13,137	14,414	16,115	17,257	17,515
Nominal (Current USD)	5,671	5,560	6,133	6,420	7,284	8,877	10,410	11,884
Nominal GDP & its Components (Billions of Current HKD) *1								
Gross Domestic Product	142.20	213.48	257.47	272.89	314.00	386.33	457.25	527.08
Household Final Consumption Expenditure, etc.	84.66	136.84	156.22	167.48	189.16	219.31	254.68	287.68
General Government Final Consumption Expenditure	8.72	16.36	18.06	19.79	22.89	25.72	30.01	36.25
Gross Fixed Capital Formation	46.23	53.44	57.94	58.07	68.60	92.73	117.44	138.10
Stock Change	3.75	4.33	5.80	1.47	6.18	9.75	14.13	3.46
Exports of Goods and Services	126.73	205.94	276.51	294.89	346.71	468.44	601.97	695.47
Imports of Goods and Services	128.06	203.70	257.35	269.15	319.97	430.18	561.53	634.82
Real GDP & its Components (Billions of 2000 HKD) *1								
Gross Domestic Product	445.38	531.62	583.65	584.76	649.62	733.78	792.25	812.54
Household Final Consumption Expenditure, etc.	264.96	322.35	340.71	355.29	383.71	422.32	457.41	473.07
General Government Final Consumption Expenditure	43.95	59.70	61.34	62.45	66.35	68.94	71.52	75.24
Gross Fixed Capital Formation	138.87	141.14	144.81	144.67	153.77	175.61	187.06	193.52
Stock Change	5.77	4.61	6.21	-0.07	6.91	10.19	13.94	3.29
Exports of Goods and Services	224.05	285.92	342.32	360.66	415.76	537.02	662.43	721.75
Imports of Goods and Services	221.58	271.36	310.73	330.62	375.95	485.42	607.39	658.93
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.	76.1	88.3	84.4	97.8	113.4	120.3	120.7
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	20.323	22.454	28.337	30.077	36.081	48.712	63.493	73.336
Imports, c.i.f.	22.994	24.409	30.444	31.195	35.942	50.691	70.325	77.662
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	7.2652	7.8180	7.7908	7.8033	7.7983	7.8060	7.7999
Purchasing Power Parity (HKD/International Dollar) *1	4.3902	4.5702	4.8405	4.9580	5.0233	5.3089	5.6266	6.0833
Price Indices								
GDP Deflator (2000=100) *4	31.9	40.2	44.1	46.7	48.3	52.6	57.7	64.9
Producer 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	N.A.	36.8	40.0	41.4	42.9	45.3	48.9	53.9
Growth Rate (%) *4								
Real GDP	10.37	6.32	9.79	0.19	11.09	12.96	7.97	2.56
Population	1.21	1.60	1.61	1.60	1.25	1.03	0.82	1.05
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.	9.9	8.6	3.5	3.5	5.7	7.8	10.2

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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5.71	5.76	5.80	5.90	6.00	6.16	6.44	6.49	6.54	6.61	6.67	6.73	6.79
108.04	114.09	121.62	129.28	136.39	141.71	147.81	155.34	147.58	152.59	168.16	168.95	172.77
101.46	107.14	114.21	121.40	128.08	133.08	138.80	145.88	138.58	143.29	157.91	158.65	162.24
75.44	87.15	102.23	118.00	133.25	141.71	156.57	173.67	165.24	160.64	165.36	162.84	161.53
18,938	19,825	20,962	21,909	22,740	23,020	22,966	23,940	22,551	23,096	25,230	25,122	25,456
17,784	18,616	19,684	20,573	21,354	21,617	21,566	22,481	21,177	21,688	23,692	23,591	23,904
13,223	15,143	17,620	19,997	22,215	23,020	24,327	26,763	25,251	24,313	24,810	24,215	23,800
587.62	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	1,269.97	1,259.77
332.81	396.39	459.49	524.98	606.61	668.39	725.87	806.79	787.04	754.45	760.17	765.09	728.43
43.13	51.29	63.79	72.27	83.14	93.61	103.53	112.74	116.54	119.98	120.15	128.86	131.20
156.16	180.81	217.64	249.44	305.76	334.36	378.49	451.89	388.73	325.33	347.38	333.12	292.60
5.73	4.10	8.19	2.30	21.26	45.66	9.76	12.31	-15.65	-10.61	14.40	-4.06	2.42
779.20	922.60	1,108.99	1,255.28	1,402.62	1,599.68	1,692.43	1,747.05	1,605.07	1,614.54	1,874.50	1,788.64	1,900.07
729.41	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	1,794.94
827.74	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	1,294.38	1,323.65
484.72	530.77	577.47	623.09	664.84	674.81	695.73	743.74	693.91	702.93	744.40	775.04	765.85
84.61	91.13	97.60	99.64	103.43	106.74	110.80	113.46	114.25	117.79	120.15	127.43	130.48
205.57	224.90	245.81	254.66	293.62	324.16	359.49	404.79	375.24	312.95	347.38	356.65	341.19
3.93	-3.14	-2.61	-7.60	5.74	28.24	-8.64	-10.04	-35.86	-20.39	14.40	-4.89	2.88
793.06	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	1,890.27	1,840.86	2,011.61
744.15	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	1,928.35
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.1	0.1	0.1
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	13.6	12.9	12.2
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	81.7	82.6	83.4
119.8	120.5	123.0	122.2	121.9	123.1	118.5	117.6	107.4	100.5	100.0	95.6	86.3
82.390	98.659	119.586	135.385	151.465	173.871	180.914	188.195	174.864	174.403	202.683	191.066	201.150
84.725	103.883	127.340	141.308	165.878	196.072	201.284	213.297	186.759	180.711	214.042	202.008	207.168
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-7.833	-3.159	-8.193	-8.331	-5.053
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2.529	10.285	7.083	9.941	12.596
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-6.789	10.028	10.044	4.684	-2.377
7.7898	7.7712	7.7406	7.7356	7.7284	7.7358	7.7343	7.7421	7.7453	7.7575	7.7912	7.7988	7.7989
6.3909	6.7009	7.1532	7.8094	8.1585	8.2379	8.4018	8.7720	8.8078	8.2189	7.4709	7.2690	6.8981
71.0	77.5	84.9	92.2	98.5	101.0	106.9	113.0	113.2	106.6	100.0	98.1	95.2
93.2	96.4	98.2	98.8	100.9	103.7	103.6	103.3	101.4	99.8	100.0	98.4	95.7
59.4	66.1	72.4	78.8	85.7	93.5	99.4	105.2	108.2	103.9	100.0	98.4	95.4
1.87	5.60	6.60	6.30	5.50	3.90	4.30	5.10	-5.00	3.40	10.20	0.47	2.26
0.33	0.88	0.82	1.71	1.64	2.63	4.55	0.82	0.85	0.96	0.88	0.90	0.92
N.A.	3.4	1.8	0.7	2.1	2.7	-0.1	-0.3	-1.8	-1.6	0.2	-1.6	-2.7
10.3	11.2	9.6	8.8	8.8	9.0	6.4	5.8	2.9	-4.0	-3.7	-1.6	-3.0



## Original Table (Energy Demand and Supply) of Hong Kong, China in 2002

Year:2002

Hong Kong, China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>TOTAL PRODUCTION</b>						
<b>OPENING STOCKS</b>						
LPG	6,513.00	tonne (tn)	0.0432	TJ / tn	281.52	Terajoules
NAPHTHA	26,573.44	tonne (tn)	0.0419	TJ / tn	1,113.30	Terajoules
MOGAS	43,890.00	kl	0.0309	TJ / kl	1,355.11	Terajoules
JET FUEL	150,879.00	kl	0.0324	TJ / kl	4,887.72	Terajoules
KEROSENE	1,728.00	kl	0.0333	TJ / kl	57.46	Terajoules
DIESEL OIL	254,853.19	tonne (tn)	0.0404	TJ / tn	10,289.70	Terajoules
FUEL OIL	77,546.88	tonne (tn)	0.0394	TJ / tn	3,057.29	Terajoules
TOTAL OPENING STOCKS					21,042.09	Terajoules
<b>CLOSING STOCKS</b>						
LPG	11,905.00	tonne (tn)	0.0432	TJ / tn	514.60	Terajoules
MOGAS	40,400.00	kl	0.0309	TJ / kl	1,247.35	Terajoules
JET FUEL	99,349.00	kl	0.0324	TJ / kl	3,218.41	Terajoules
KEROSENE	2,033.00	kl	0.0333	TJ / kl	67.60	Terajoules
DIESEL OIL	199,599.59	tonne (tn)	0.0404	TJ / tn	8,058.83	Terajoules
FUEL OIL	178,284.11	tonne (tn)	0.0394	TJ / tn	7,028.85	Terajoules
TOTAL CLOSING STOCKS					20,135.64	Terajoules
<b>STOCK CHANGE</b>						
HARD COAL	-264,368.00	tonne (tn)	0.0251	TJ / tn	-6,630.35	Terajoules
LPG	37,439.00	tonne (tn)	0.0432	TJ / tn	1,618.30	Terajoules
NAPHTHA	66,768.03	tonne (tn)	0.0419	TJ / tn	2,797.25	Terajoules
MOGAS	25,259.00	kl	0.0309	TJ / kl	779.87	Terajoules
JET FUEL	-18,376.00	kl	0.0324	TJ / kl	-595.29	Terajoules
KEROSENE	33,528.00	kl	0.0333	TJ / kl	1,114.81	Terajoules
DIESEL OIL	16,715.00	tonne (tn)	0.0404	TJ / tn	674.87	Terajoules
FUEL OIL	96,757.00	tonne (tn)	0.0394	TJ / tn	3,814.65	Terajoules
TOTAL STOCK CHANGE					3,574.10	Terajoules
<b>IMPORTS</b>						
HARD COAL	8,729,191.00	tonne (tn)	0.0251	TJ / tn	218,928.11	Terajoules
ANTHRACITE	201.00	tonne (tn)	0.0278	TJ / tn	5.60	Terajoules
LPG	307,444.00	tonne (tn)	0.0432	TJ / tn	13,289.27	Terajoules
NAPHTHA	579,898.57	tonne (tn)	0.0419	TJ / tn	24,294.85	Terajoules
MOGAS	518,444.00	kl	0.0309	TJ / kl	16,006.96	Terajoules
JET FUEL #	4,405,462.00	kl	0.0324	TJ / kl	142,714.94	Terajoules
DIESEL OIL	5,162,871.05	tonne (tn)	0.0404	TJ / tn	208,450.92	Terajoules
FUEL OIL	3,756,229.62	tonne (tn)	0.0394	TJ / tn	148,089.35	Terajoules
NATURAL GAS AND LNG	2,115,885.00	tonne (tn)	0.0381	TJ / tn	80,551.75	Terajoules
NATURAL GAS	2,115,885.00	tonne (tn)	0.0381	TJ / tn	80,551.75	Terajoules
ELECTRICITY	10,181.94	GWh	3.6000	TJ/GWh	36,655.00	Terajoules
TOTAL IMPORTS					888,986.74	Terajoules
<b>EXPORTS</b>						
COAL	3,350.00	tonne (tn)	0.0251	TJ / tn	84.02	Terajoules
HARD COAL	3,350.00	tonne (tn)	0.0251	TJ / tn	84.02	Terajoules
LPG	2,573.00	tonne (tn)	0.0432	TJ / tn	111.22	Terajoules
MOGAS	45,003.00	kl	0.0309	TJ / kl	1,389.47	Terajoules
JET FUEL #	89,664.00	kl	0.0324	TJ / kl	2,904.66	Terajoules
DIESEL OIL	121,756.80	tonne (tn)	0.0404	TJ / tn	4,915.93	Terajoules
FUEL OIL	887,189.04	tonne (tn)	0.0394	TJ / tn	34,977.43	Terajoules
ELECTRICITY	2,175.00	GWh	3.6000	TJ/GWh	7,830.00	Terajoules
TOTAL EXPORTS					52,212.73	Terajoules
<b>INTERNATIONAL MARINE BUNKERS</b>						
DIESEL OIL	2,062,315.00	tonne (tn)	0.0404	TJ / tn	83,265.97	Terajoules
FUEL OIL	2,930,186.00	tonne (tn)	0.0394	TJ / tn	115,522.58	Terajoules
TOTAL PRIMARY ENERGY SUPPLY					641,559.56	Terajoules
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
<b>GAS PROCESSING</b>						
NAPHTHA	646,666.67	tonne (tn)	0.0419	TJ / tn	27,092.10	Terajoules
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	8,453,331.00	tonne (tn)	0.0251	TJ / tn	212,009.54	Terajoules
DIESEL OIL	9,215.00	tonne (tn)	0.0404	TJ / tn	372.06	Terajoules
FUEL OIL	35,611.00	tonne (tn)	0.0394	TJ / tn	1,403.97	Terajoules
NATURAL GAS AND LNG @	2,115,885.11	tonne (tn)	0.0381	TJ / tn	80,551.75	Terajoules
NATURAL GAS @	2,115,885.11	tonne (tn)	0.0381	TJ / tn	80,551.75	Terajoules
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
<b>GAS RECOVERING</b>						
TOWN GAS	26,641.00	Terajoules	0.9000	TJ/TJ	23,976.90	Terajoules
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	34,311.67	GWh	3.6000	TJ/GWh	123,522.00	Terajoules
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
ELECTRICITY	4,231.94	GWh	3.6000	TJ/GWh	15,235.00	Terajoules
TOTAL LOSSES AND OWN USE					15,235.00	Terajoules
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	8,343.00	tonne (tn)	0.0251	TJ / tn	209.80	Terajoules

Original Table (Energy Demand and Supply) of Hong Kong, China in 2002 (Continued)

Year:2002

Hong Kong, China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HARD COAL	8,142.00	tonne (tn)	0.0251	TJ / tn	204.20	Terajoules
ANTHRACITE	201.00	tonne (tn)	0.0278	TJ / tn	5.60	Terajoules
LPG	342,310.00	tonne (tn)	0.0432	TJ / tn	14,796.35	Terajoules
MOGAS	498,700.00	kl	0.0309	TJ / kl	15,397.36	Terajoules
JET FUEL	4,297,422.00	kl	0.0324	TJ / kl	139,214.99	Terajoules
KEROSENE	33,528.00	kl	0.0333	TJ / kl	1,114.81	Terajoules
DIESEL OIL	2,986,299.00	tonne (tn)	0.0404	TJ / tn	120,571.82	Terajoules
TOWN GAS	26,641.00	Terajoules	0.9000	TJ / TJ	23,976.90	Terajoules
ELECTRICITY	38,086.67	GWh	3.6000	TJ/GWh	137,112.00	Terajoules
<b>TOTAL</b>					452,394.03	Terajoules
<b>AGRICULTURE</b>						
<b>TOTAL</b>						Terajoules
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	130,541.00	t	0.0432	TJ / tn	5,642.63	TJ
KEROSENE	28,334.51	kl	0.0333	TJ / kl	942.12	Terajoules
TOWN GAS	25,654.00	Terajoules	0.9000	TJ / TJ	23,088.60	Terajoules
ELECTRICITY	33,509.72	GWh	3.6000	TJ/GWh	120,635.90	Terajoules
<b>TOTAL</b>					150,308.36	Terajoules
<b>OTHERS</b>						
ELECTRICITY	101.39	GWh	3.6000	TJ/GWh	365.00	Terajoules
<b>TOTAL</b>					365.00	Terajoules
<b>INDUSTRY</b>						
KEROSENE	5,193.49	kl	0.0333	TJ / kl	172.68	Terajoules
DIESEL OIL	854,977.40	tonne (tn)	0.0404	TJ / tn	34,519.71	Terajoules
TOWN GAS	987.00	Terajoules	0.9000	TJ / TJ	888.30	Terajoules
ELECTRICITY	4,475.56	GWh	3.6000	TJ/GWh	16,112.00	Terajoules
<b>TOTAL</b>					51,692.70	Terajoules
<b>TRANSPORT</b>						
LPG	211,769.00	t	0.0432	TJ / tn	9,153.72	TJ
MOGAS	498,700.00	kl	0.0309	TJ / kl	15,397.36	Terajoules
JET FUEL	4,297,422.00	kl	0.0324	TJ / kl	139,214.99	Terajoules
DIESEL OIL	2,131,321.60	tonne (tn)	0.0404	TJ / tn	86,052.11	Terajoules
<b>TOTAL</b>					249,818.17	Terajoules
<b>NON-ENERGY</b>						
<b>TOTAL NON-ENERGY USE</b>						Terajoules

Remarks : \* Hard coal consists of 'Steam coal and other coal' and 'Wood charcoal'. The conversion factors for Steam coal and other coal' and 'Wood charcoal' are 0.0264 and 0.0293 respectively. As the share of 'Steam coal and other coal' in hard coal dominated that of the 'Wood charcoal', the conversion factor for hard coal is assumed to be 0.0264.

@ Data are not released in order to safeguard confidentiality of information provided by individual establishments.

# 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.

Note:

CA estimates the final energy consumption of petroleum products for each sector. According to 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 2002 (Continued)

ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	11,606	
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 2002

	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 2002  
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

## Original Table (Disaggregated Final Energy Demand) of Hong Kong, China in 2002

2002

Hong Kong, China	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>1 INDUSTRIAL SECTOR</b>						
<b>1.1 IRON AND STEEL (*1)</b>						
TOTAL						Terajoules
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
TOTAL						Terajoules
<b>1.3 NON-FERROUS METALS (*3)</b>						
TOTAL						Terajoules
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
TOTAL						Terajoules
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
TOTAL						Terajoules
<b>1.6 OTHER INDUSTRIES (*6)</b>						
TOTAL						Terajoules
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
TOTAL						Terajoules
<b>2.2 ROAD</b>						
TOTAL						Terajoules
<b>2.3 RAIL</b>						
TOTAL						Terajoules
<b>2.4 INTERNAL NAVIGATION</b>						
TOTAL						Terajoules
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
TOWN GAS	10,860.00	Terajoules	1.0000	TJ / TJ	10,860.00	Terajoules
ELECTRICITY	87,606.00	Terajoules	1.0000	TJ / TJ	87,606.00	Terajoules
TOTAL					98,466.00	Terajoules
<b>3.2 RESIDENTIAL</b>						
TOWN GAS	14,794.00	Terajoules	1.0000	TJ / TJ	14,794.00	Terajoules
ELECTRICITY	33,394.00	Terajoules	1.0000	TJ / TJ	33,394.00	Terajoules
TOTAL					48,188.00	Terajoules

Note:

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

**Original Table (Energy Price) of Hong Kong, China in 2002**  
Year: 2002

Hong Kong, China	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG	HK\$ / kg	2.27	Import unit value refers @
NAPHTHA	HK\$ / litre	* 1.40	Import unit value refers @
MOGAS Motor gasoline (unleaded petrol)	HK\$ / litre	1.68	Import unit value refers @
JET FUEL	HK\$ / litre	# 1.41	Import unit value refers @
KEROSENE			
DIESEL OIL			
FUEL OIL	HK\$ / litre	1.17	Import unit value refers @
NATURAL GAS (LNG) (Gaseous)	HK\$ / kg	1.1	Import unit value refers @
<b>WHOLESALE PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS Motor gasoline - Unleaded petrol 98	HK\$ / litre	10.93	Standard list price ##
JET FUEL - Aviation gasoline 100	HK\$ / litre	14.00	Standard list price ##
- Aviation jet fuel	HK\$ / litre	5.77	Standard list price ##
KEROSENE	HK\$ / litre	4.44	Standard list price ##
DIESEL OIL - Light diesel for motor vehicles	HK\$ / litre	5.99	Standard list price ##
- Light diesel for industrial and marine	HK\$ / litre	4.49	Standard list price ##
FUEL OIL	HK\$ / litre	2.18	Standard list price ##
LPG	HK\$ / kg	9.62	Standard list price ##
ELECTRICITY (AVERAGE)(*1)	HK\$ / megajoule	0.25	Average charge per unit refers **
ELECTRICITY (INDUSTRY)			
ELECTRICITY (COMMERCIAL)			
<b>CONSUMER PRICES</b>			
COAL			
STEAM COAL			
NATURAL GAS			
TOWN GAS	HK\$ / megajoule	0.20	Average charge per unit refers **
PETROLEUM PRODUCTS			
MOGAS Motor gasoline (unleaded petrol)			
KEROSENE			
DIESEL OIL			
LPG			
ELECTRICITY (RESIDENTIAL)			

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 2003

Coal		Unit: 1000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	N.A	582	3	-
	FEB.	N.A	781	1	-
	MAR.	N.A	1,142	3	-
	<b>1st quarter</b>	N.A	2,505	7	-
	APR.	N.A	557	0	N.A
	MAY.	N.A	1,053	4	N.A
	JUN.	N.A	1,257	2	N.A
	<b>2nd quarter</b>	N.A	2,867	6	N.A
	JUL.	N.A	958	0	N.A
	AUG.	N.A	773	0	N.A
	SEP.	N.A	835	0	N.A
	<b>3rd quarter</b>	N.A	2,566	1	N.A
	OCT.	N.A	1,249	0	N.A
	NOV.	N.A	846	0	N.A
	DEC.	N.A	666	0	N.A
	<b>4th quarter</b>	N.A	2,762	1	N.A
			-	10,700	15

Oil		Unit: 1000kl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	N.A	N.A	N.A	N.A	1,347	69	NA
	FEB.	N.A	N.A	N.A	N.A	1,546	62	NA
	MAR.	N.A	N.A	N.A	N.A	1,311	99	NA
	<b>1st quarter</b>	N.A	N.A	N.A	N.A	4,204	229	NA
	APR.	N.A	N.A	N.A	N.A	1,221	97	+18.82
	MAY.	N.A	N.A	N.A	N.A	1,411	115	+170.51
	JUN.	N.A	N.A	N.A	N.A	951	108	-92
	<b>2nd quarter</b>	N.A	N.A	N.A	N.A	3,583	320	+97.12
	JUL.	N.A	N.A	N.A	N.A	1,105	119	-131
	AUG.	N.A	N.A	N.A	N.A	1,420	103	+23.53
	SEP.	N.A	N.A	N.A	N.A	1,598	129	+97.54
	<b>3rd quarter</b>	N.A	N.A	N.A	N.A	4,124	351	-10
	OCT.	N.A	N.A	N.A	N.A	1,403	98	-104
	NOV.	N.A	N.A	N.A	N.A	1,707	102	133
	DEC.	N.A	N.A	N.A	N.A	1,589	162	-236
	<b>4th quarter</b>	N.A	N.A	N.A	N.A	4,699	361	-208
			-	-	-	-	16,609	1,262

Original Table (Quarterly) of Hong Kong, China in 2003 (Continued)

Natural Gas ( or LNG)		Unit: 1000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	N.A	96	-	-
	FEB.	N.A	92	-	-
	MAR.	N.A	104	-	-
	<b>1st quarter</b>	N.A	292	-	-
	APR.	N.A	109	-	N.A
	MAY.	N.A	125	-	N.A
	JUN.	N.A	127	-	N.A
	<b>2nd quarter</b>	N.A	361	-	N.A
	JUL.	N.A	137	-	N.A
	AUG.	N.A	136	-	N.A
	SEP.	N.A	136	-	N.A
	<b>3rd quarter</b>	N.A	409	-	N.A
	OCT.	N.A	117	-	N.A
	NOV.	N.A	91	-	N.A
	DEC.	N.A	89	-	N.A
	<b>4th quarter</b>	N.A	298	-	N.A
		-	1,361	-	-

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	-	-	N.A	N.A	N.A	-	-
	FEB.	-	-	N.A	N.A	N.A	-	-
	MAR.	-	-	N.A	N.A	N.A	-	-
	<b>1st quarter</b>	7,661	7,661	N.A	N.A	N.A	1,361	510
	APR.	-	-	N.A	N.A	N.A	-	-
	MAY.	-	-	N.A	N.A	N.A	-	-
	JUN.	-	-	N.A	N.A	N.A	-	-
	<b>2nd quarter</b>	9,154	9,154	N.A	N.A	N.A	2,676	643
	JUL.	-	-	N.A	N.A	N.A	-	-
	AUG.	-	-	N.A	N.A	N.A	-	-
	SEP.	-	-	N.A	N.A	N.A	-	-
	<b>3rd quarter</b>	10,723	10,723	N.A	N.A	N.A	3,669	1,021
	OCT.	-	-	N.A	N.A	N.A	-	-
	NOV.	-	-	N.A	N.A	N.A	-	-
	DEC.	-	-	N.A	N.A	N.A	-	-
	<b>4th quarter</b>	7,967	7,967	N.A	N.A	N.A	2,691	834
		35,506	35,506	-	-	-	10,397	3,008

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 2001

	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
<b>1 Indigenous Production</b>	50,316	-	61,956	-	-	-	-	-	-
<b>2 Import</b>	-	-	14,293	11,403	1,779	-	-	2,040	6,473
<b>3 Export</b>	-35,495	-	-30,593	-8,571	-72	-1,625	-	-	-
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	14,822	-	45,656	2,832	1,707	-1,625	-	2,040	6,473
<b>7 Public Electricity</b>	-10,612	-	-	-4,570	-	-	-	-	-2,965
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	1,482	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-47,567	47,312	8,987	2,439	1,028	6,921	13,721
<b>11 Coal Transformation</b>	-17	11	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	70	-1	1,912	-3,082	-1,059	-814	-	839	69
<b>14 Total Final Energy Consumption</b>	4,262	10	-	43,974	9,635	-	1,028	9,800	17,298
<b>15 Industry Sector</b>	3,364	-	-	10,479	-	-	-	28	6,691
<b>16 Transport Sector</b>	-	-	-	21,523	9,635	-	1,028	-	10,607
<b>17 Other Sector</b>	-	-	-	9,189	-	-	-	9,189	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	9,189	-	-	-	9,189	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	-	-	-	-	-	-

## 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
<b>1 Indigenous Production</b>	56,206	-	57,692	-	-	-	-	-	-
<b>2 Import</b>	-	-	15,720	13,590	2,328	-	147	2,041	7,917
<b>3 Export</b>	-40,332	-	-27,511	-8,467	-	-1,329	-	-	-
<b>4 International Marine Bunkers</b>	-	-	-	-182	-	-	-	-	-130
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	15,873	-	45,900	4,941	2,328	-1,329	147	2,041	7,788
<b>7 Public Electricity</b>	-10,884	-	-	-5,485	-	-	-	-	-3,767
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	1,346	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-46,326	43,934	8,599	1,962	1,109	6,719	13,378
<b>11 Coal Transformation</b>	-13	10	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	34	0	426	262	-793	0	-57	6	-242
<b>14 Total Final Energy Consumption</b>	5,010	11	-	44,999	10,134	633	1,200	8,766	17,157
<b>15 Industry Sector</b>	2,948	-	-	10,653	-	-	-	40	6,676
<b>16 Transport Sector</b>	-	-	-	22,072	10,134	-	1,200	-	10,481
<b>17 Other Sector</b>	2,062	11	-	9,631	-	-	-	8,726	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	2,062	11	-	9,631	-	-	-	8,726	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	633	-	633	-	-	-

Energy Balance Table of Indonesia in 2001 (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	
-	-	-	-	50,189	-	916	-	5,082	-	-	-	168,460	
1,043	-	-	68	-	-	-	-	-	-	-	-	25,696	
-	-1,554	-	-5,320	-25,284	-	-	-	-	-	-	-	-99,943	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1,043	-1,554	-	-5,252	24,905	-	916	-	5,082	-	-	-	94,213	
-1,604	-	-	-	-4,604	-	-916	-	-5,082	-	8,645	-	-17,139	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	1,482	-	-	-5,442	-	-	-	-	-	-	-	-3,960	
4,991	808	-	8,417	-609	-	-	-	-	-	-	-	-865	
-	-	-	-	-	-	-	-	-	-	-	-	-6	
-	-	-	-	-11,724	-	-	-	-	-	-1,460	-	-13,183	
1,047	0	-	-3,165	7,820	-	0	-	-	-	83	-	6,801	
5,476	736	-	-	10,345	-	-	-	-	-	7,269	-	65,861	
3,759	-	-	-	6,564	-	-	-	-	-	3,061	-	23,468	
251	1	-	-	15	-	-	-	-	-	-	-	21,538	
-	-	-	-	10	-	-	-	-	-	2,867	-	12,066	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	10	-	-	-	-	-	2,867	-	12,066	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	3,756	-	-	-	-	-	-	-	3,756	

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	380	-	-	175,743	
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	380	-	-	100,796	
-1,718	-	-	-	-4,190	-	-855	-	-5,364	-	9,292	-	-17,486	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	1,346	-	-	-7,561	-	-	-	-	-	-	-	-6,216	
5,306	852	-	6,009	-639	-	-	-	-	-	-	-	-3,031	
-	-	-	-	-	-	-	-	-	-	-	-	-3	
-	-	-	-	-8,316	-	-	-	-	-	-1,806	-	-10,122	
1,718	346	-	-716	2,753	-	-	-	-	-	4	-	3,479	
5,893	1,217	-	-	9,529	-	-	-	-	380	7,490	-	67,418	
3,626	310	-	-	5,095	-	-	-	-	-	3,167	-	21,863	
256	1	-	-	14	-	-	-	-	-	-	-	22,085	
-	905	-	-	99	-	-	-	-	380	3,942	-	16,125	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	905	-	-	99	-	-	-	-	380	3,942	-	16,125	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	4,301	-	-	-	-	-	-	-	4,934	

## Major Energy Indicators of Indonesia

	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	31,067	29,138	28,065	36,101	36,434	40,626	39,431	46,451	53,252
Indigenous Production	92,083	85,032	96,628	95,715	100,568	102,530	103,638	112,075	119,434
Import	7,367	6,725	5,280	5,097	5,259	6,083	5,208	7,110	9,999
Export	-68,076	-62,341	-73,532	-64,646	-69,373	-67,926	-69,331	-72,582	-75,853
Final Energy Consumption	21,078	23,794	24,182	24,316	25,663	26,564	28,215	31,290	33,956
Industry	6,756	8,241	8,347	8,285	8,748	8,969	9,626	10,941	11,767
Transport	6,236	7,031	7,242	7,086	7,529	8,290	8,982	9,917	11,205
Residential & Commercial	7,138	7,184	6,845	6,057	6,076	6,129	6,363	6,671	7,133
Agriculture	-	-	-	-	-	-	-	-	-
<b>Coal, Coal Products</b>									
Primary Energy Supply	166	242	580	889	1,601	1,635	1,957	4,026	4,056
Indigenous Production	200	395	904	873	1,015	1,063	2,006	4,779	5,785
Import	26	13	-	398	849	731	707	504	663
Export	-59	-166	-324	-383	-264	-159	-756	-1,256	-2,392
Transformation Sector	-	-	-92	-365	-758	-996	-1,305	-1,871	-2,268
Power Generation	-	-	-92	-349	-745	-984	-1,292	-1,857	-2,252
Final Energy Consumption	75	103	148	319	653	867	973	1,304	1,149
Industry	61	95	146	282	631	832	959	1,209	1,110
Transport	14	8	2	1	0	0	0	0	0
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	30,739	23,899	26,103	30,196	28,595	33,291	31,176	33,298	38,632
Indigenous Production	76,731	65,157	68,613	64,984	68,312	67,952	65,145	68,140	70,733
Import	4,387	3,428	4,554	4,313	3,694	4,026	2,661	3,739	6,085
Export	-50,379	-44,685	-47,064	-39,102	-43,411	-38,687	-36,630	-38,580	-38,186
Transformation Sector	-25,704	-24,640	-26,577	-26,765	-29,039	-31,195	-32,884	-33,096	-36,609
Petroleum Refineries	-25,704	-24,640	-26,577	-26,632	-28,991	-31,148	-32,735	-33,007	-36,471
<b>Petroleum Products</b>									
Primary Energy Supply	-4,990	-3,165	-8,992	-7,173	-7,238	-8,185	-8,527	-8,155	-8,202
Import	2,955	3,284	726	385	716	1,327	1,839	2,868	3,251
Export	-7,637	-6,172	-9,406	-7,494	-7,934	-9,451	-10,283	-10,871	-11,125
Transformation Sector	24,640	22,451	24,323	22,413	25,198	27,104	29,085	30,895	33,548
Power Generation	-1,690	-2,775	-2,978	-2,929	-2,419	-2,947	-3,021	-2,790	-3,764
Petroleum Refineries	25,865	24,649	26,602	27,941	30,312	32,720	34,185	34,305	38,041
Final Energy Consumption	18,052	19,530	19,176	18,184	18,695	19,124	20,339	22,233	24,681
Industry	4,751	5,452	5,219	4,914	4,817	4,750	4,981	5,574	6,317
Transport	6,221	7,024	7,240	7,084	7,528	8,290	8,982	9,917	11,203
Residential & Commercial	6,687	6,632	6,247	5,629	5,598	5,587	5,748	5,995	6,379
Agriculture	-	-	-	-	-	-	-	-	-
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	4,827	7,559	9,669	11,307	12,367	12,657	13,095	15,385	16,889
Indigenous Production	14,828	18,877	26,407	28,975	30,132	32,286	34,756	37,260	41,040
Import	-	-	-	-	-	-	-	-	-
Export	-10,002	-11,318	-16,738	-17,668	-17,764	-19,630	-21,661	-21,875	-24,151
Transformation Sector	-1,278	-1,797	-2,902	-13,138	-13,443	-14,242	-14,492	-16,116	-16,636
Power Generation	-	-1	-2	-91	-144	-151	-216	-209	-249
Final Energy Consumption	2,326	3,048	3,533	4,385	4,709	4,821	4,917	5,468	5,504
Industry	1,664	2,132	2,272	2,313	2,414	2,456	2,632	2,897	2,862
Transport	-	-	-	-	-	-	0	0	1
Residential & Commercial	107	103	97	7	6	9	6	7	5
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	855	1,340	1,520	1,810	2,028	2,221	2,491	2,840	3,245
Thermal	529	902	1,009	1,112	1,120	1,413	1,629	1,833	2,310
Hydro	325	438	512	698	908	808	862	1,007	935
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	624	1,114	1,325	1,428	1,607	1,752	1,985	2,284	2,624
Industry	280	561	710	776	887	931	1,053	1,261	1,478
Transport	-	-	-	-	-	-	-	-	1
Residential & Commercial	344	450	501	421	471	533	609	669	749
Agriculture	-	-	-	-	-	-	-	-	-

Major Energy Indicators of Indonesia (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
58,217	62,157	67,615	61,190	82,578	93,537	93,673	88,044	89,922	101,236	94,213	100,796	
133,444	137,015	140,898	146,142	168,134	177,079	179,130	179,114	182,300	183,995	168,460	175,743	
9,915	13,427	14,554	14,323	15,761	18,507	21,379	15,701	21,529	21,403	25,696	29,310	
-85,087	-88,247	-87,789	-99,234	-100,911	-101,974	-106,566	-106,730	-113,761	-103,804	-99,943	-104,074	
36,218	38,767	41,102	44,562	50,529	50,800	57,509	57,805	61,002	66,082	65,861	67,418	
12,766	13,997	15,109	16,453	20,958	18,280	21,983	21,448	22,415	25,170	23,468	21,863	
12,116	12,910	13,652	15,309	16,673	18,609	20,411	19,985	20,136	21,452	21,538	22,085	
7,462	7,996	8,219	8,662	9,628	10,429	10,975	11,508	13,102	14,457	12,066	16,125	
-	-	-	-	-	-	-	-	-	-	-	-	
4,564	3,826	5,625	4,268	6,579	8,565	8,064	8,830	11,056	10,956	14,822	15,873	
7,828	12,612	15,443	17,138	23,955	28,820	31,412	35,642	42,158	44,007	50,316	56,206	
552	590	609	574	547	567	540	377	480	272	-	-	
-3,816	-9,376	-10,426	-13,444	-17,924	-20,823	-23,888	-27,190	-31,582	-33,323	-35,495	-40,332	
-2,546	-2,606	-2,351	-2,795	-4,013	-5,416	-6,487	-7,004	-8,172	-10,052	-10,618	-10,888	
-2,531	-2,592	-2,337	-2,777	-3,993	-5,378	-6,439	-6,965	-8,161	-10,048	-10,612	-10,884	
1,562	1,594	1,653	2,075	1,094	1,096	1,221	1,315	1,874	2,053	4,272	5,020	
1,511	1,566	1,629	2,034	1,076	1,058	1,187	1,246	1,772	1,821	3,364	2,948	
0	-	-	-	-	-	-	-	-	-	-	-	
-	-	0	1	2	4	5	7	10	17	-	2,073	
-	-	-	-	-	-	-	-	-	-	-	-	
39,158	42,246	42,559	38,702	41,784	45,943	42,478	42,825	39,177	49,852	45,656	45,900	
77,067	73,000	72,587	73,146	72,904	73,127	72,474	71,293	65,928	68,981	61,956	57,692	
5,928	8,099	7,521	8,527	9,107	9,569	8,381	8,901	11,288	10,660	14,293	15,720	
-43,838	-38,852	-37,548	-42,971	-40,227	-36,752	-38,377	-37,368	-38,039	-29,789	-30,593	-27,511	
-38,113	-40,311	-39,547	-39,260	-39,486	-45,659	-44,325	-45,278	-45,323	-49,298	-47,567	-46,326	
-37,915	-40,082	-39,390	-39,174	-39,246	-45,532	-44,325	-45,278	-45,323	-49,298	-47,567	-46,326	
-7,719	-7,683	-4,964	-6,611	-7,875	-5,033	-647	-4,132	-464	1,171	2,832	4,941	
3,435	4,738	6,425	5,223	6,107	8,371	12,458	6,424	9,760	10,471	11,403	13,590	
-11,099	-12,383	-11,340	-11,791	-13,576	-13,328	-12,834	-10,515	-10,078	-8,942	-8,571	-8,467	
33,986	35,513	34,147	36,243	38,398	42,586	39,783	41,137	41,941	42,743	44,224	39,795	
-4,624	-5,147	-5,914	-3,401	-2,676	-3,003	-5,183	-3,846	-3,693	-4,501	-4,570	-5,485	
39,192	41,362	40,502	40,300	41,588	46,092	45,870	46,460	47,112	48,490	47,312	43,934	
26,047	28,106	29,613	31,858	33,260	36,022	38,528	38,893	40,531	44,061	43,974	44,999	
6,638	7,492	8,163	8,482	8,739	9,138	9,585	9,479	9,568	10,948	10,479	10,653	
12,110	12,904	13,642	15,296	16,661	18,597	20,393	19,961	20,113	21,432	21,523	22,072	
6,598	7,012	7,118	7,395	7,715	8,201	8,387	8,610	9,969	10,873	9,189	9,631	
-	-	-	-	-	-	-	-	-	-	-	-	
20,337	21,598	22,236	22,201	38,832	40,683	40,333	35,897	35,523	34,048	24,905	27,483	
46,671	49,234	50,710	53,230	68,017	71,754	71,800	67,555	69,584	65,798	50,189	55,246	
-	-	-	-	-	-	-	-	-	-	-	-	
-26,334	-27,636	-28,474	-31,028	-29,185	-31,070	-31,467	-31,657	-34,061	-31,750	-25,284	-27,764	
-18,778	-20,342	-20,509	-23,725	-30,644	-32,278	-31,691	-27,866	-26,352	-26,278	-22,379	-20,706	
-300	-289	-952	-3,798	-9,515	-9,557	-9,962	-9,554	-9,898	-10,468	-4,604	-4,190	
5,664	5,703	6,134	6,422	7,831	8,699	8,306	7,837	8,296	8,089	10,345	9,529	
2,973	3,037	3,244	3,589	4,951	5,594	4,642	4,168	4,214	4,407	6,564	5,095	
4	4	8	11	13	11	18	23	23	20	15	14	
5	5	6	6	7	7	8	8	9	28	10	99	
-	-	-	-	-	-	-	-	-	-	-	-	
3,604	4,005	4,387	4,963	7,889	8,522	9,432	9,281	9,750	10,561	8,645	9,292	
2,688	2,815	3,241	3,835	6,754	7,354	8,541	8,121	8,631	9,699	7,729	8,437	
916	1,189	1,147	1,128	1,136	1,169	892	1,160	1,119	862	916	855	
-	-	-	-	-	-	-	-	-	-	-	-	
2,945	3,363	3,701	4,207	8,344	4,983	9,453	9,760	10,301	11,878	7,269	7,490	
1,644	1,902	2,073	2,347	6,192	2,490	6,568	6,555	6,862	7,995	3,061	3,167	
1	1	2	2	-	-	-	-	-	-	-	-	
859	979	1,096	1,259	1,905	2,217	2,576	2,883	3,114	3,538	2,867	3,942	
-	-	-	-	-	-	-	-	-	-	-	-	

## Major Economic Indicators of Indonesia

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	148.30	157.16	160.08	163.04	166.02	168.99	171.99	175.06
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	74.60	88.46	94.80	98.10	103.95	109.46	116.42	126.99
Real Term (Billions of 1995 Price and 1995 PPP)	197.16	233.79	250.56	259.27	274.74	304.76	307.69	335.64
Nominal (Billions of Current USD)	78.01	85.37	87.61	87.34	80.06	75.93	88.79	101.46
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	503	563	592	602	626	648	677	725
Real Term (1995 Price and 1995 PPP)	1,329	1,488	1,565	1,590	1,655	1,712	1,789	1,917
Nominal (Current USD)	526	543	547	536	482	449	516	580
Nominal GDP & its Components (Billions of Current IDR) *1								
Gross Domestic Product	48,913	77,623	89,885	96,997	102,683	124,817	149,669	179,582
Household Final Consumption Expenditure, etc.	25,594	46,412	53,865	57,201	65,595	77,370	89,722	100,234
General Government Final Consumption Expenditure	5,148	8,077	9,121	11,400	11,529	11,764	12,756	15,698
Gross Fixed Capital Formation	10,550	19,523	19,842	22,041	26,202	31,418	38,356	47,706
Stock Change	1,223	4,789	4,277	5,077	4,137	6,269	4,815	10,773
Exports of Goods and Services	16,718	20,448	22,999	21,534	20,010	29,874	35,585	43,614
Imports of Goods and Services	9,886	21,626	19,845	19,835	21,036	27,956	31,566	38,443
Real GDP & its Components (Billions of 1993 IDR) *1								
Gross Domestic Product	141,872	168,234	180,300	186,570	197,698	208,176	221,407	241,521
Household Final Consumption Expenditure, etc.	73,031	114,178	121,041	129,050	131,289	133,098	123,144	132,330
General Government Final Consumption Expenditure	15,987	18,785	19,426	20,873	21,492	21,455	23,080	25,458
Gross Fixed Capital Formation	32,356	40,260	37,845	40,568	44,301	46,737	52,116	59,891
Stock Change	3,547	4,206	4,508	4,664	4,942	5,204	12,650	12,846
Exports of Goods and Services	56,162	42,571	45,357	41,818	48,180	55,225	55,806	59,566
Imports of Goods and Services	39,211	51,765	47,877	50,404	52,506	53,543	43,533	48,570
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	26.7	24.3	23.8	23.9	23.2	22.5	22.2	21.9
Industry	35.6	34.7	35.9	35.3	35.7	36.0	36.2	38.5
Services, etc.	37.7	41.0	40.4	40.8	41.2	41.5	41.7	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.	21,909	21,152	21,902	18,590	16,075	17,135	19,465	22,160
Imports, c.i.f.	10,834	16,352	13,882	10,262	10,718	12,891	13,249	16,444
Balance of Payments (Billions of Current USD) *2								
Trade Balance	N.A.	0.963	5.707	5.822	2.458	4.674	5.678	6.664
Current Account	N.A.	-6.338	-1.856	-1.923	-3.911	-2.098	-1.397	-1.108
Overall Balance	N.A.	0.183	0.981	0.510	-1.003	0.630	-0.113	0.495
Foreign Exchange Rate (IDR/USD) *1	626.99	909.26	1,025.94	1,110.58	1,282.56	1,643.85	1,685.70	1,770.06
Purchasing Power Parity (IDR/International Dollar) *1	422.01	467.99	478.66	486.82	476.54	532.54	584.70	620.26
Price Indices								
GDP Deflator (1993=100) *3	34.5	46.1	49.9	52.0	51.9	60.0	67.6	74.4
Wholesale Price Index (2000=100) *2	10.1	14.2	15.7	16.5	16.9	20.1	21.1	22.9
Consumer Price Index (2000=100) *2	12.0	16.5	18.2	19.0	20.2	22.0	23.8	25.3
Growth Rate (%) *3								
Real GDP	8.73	8.45	7.17	3.48	5.96	5.30	6.36	9.08
Population	2.09	1.89	1.86	1.85	1.83	1.79	1.78	1.78
Price								
Wholesale Price Index	26.8	17.9	11.0	5.0	2.2	19.2	4.9	8.6
Consumer Price Index	18.0	11.8	10.5	4.7	5.8	9.3	8.0	6.4

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"

: IDR shows Rupiah, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Indonesia (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
178.23	181.32	184.32	187.23	190.04	192.75	195.46	198.16	200.87	203.57	206.27	208.98	211.72
138.43	150.78	161.67	173.40	186.47	202.13	217.58	227.81	197.90	199.47	209.28	216.47	224.39
365.85	398.51	427.29	458.28	492.84	534.22	575.05	602.07	523.04	527.18	553.12	572.12	593.03
114.43	128.17	139.12	158.01	176.89	202.13	227.37	215.75	95.45	140.00	150.20	141.26	172.91
777	832	877	926	981	1,049	1,113	1,150	985	980	1,015	1,036	1,060
2,053	2,198	2,318	2,448	2,593	2,772	2,942	3,038	2,604	2,590	2,682	2,738	2,801
642	707	755	844	931	1,049	1,163	1,089	475	688	728	676	817
210,866	249,969	282,395	329,776	382,220	454,514	532,568	627,695	955,754	1,099,732	1,264,919	1,449,398	1,610,012
119,802	140,805	157,484	185,946	225,410	276,641	328,298	380,278	647,824	813,183	850,819	975,731	1,137,763
18,649	20,785	24,731	29,757	31,014	35,584	40,299	42,952	54,416	72,631	90,780	113,416	132,219
59,758	67,488	72,774	86,667	105,381	129,217	157,653	177,686	243,043	221,472	275,881	316,179	325,334
4,911	11,387	13,294	10,546	13,327	15,900	5,800	21,615	-82,716	-96,461	-72,236	-63,282	-95,614
53,409	64,485	78,764	88,231	101,332	119,593	137,533	174,871	506,245	390,560	542,992	612,482	569,942
50,046	60,248	70,481	78,383	96,953	125,657	140,812	176,600	413,058	301,654	423,318	505,128	459,631
263,262	286,765	307,471	329,776	354,641	384,418	413,798	433,246	376,375	379,353	398,017	411,691	426,741
155,094	167,455	172,640	192,958	208,062	234,245	257,016	277,116	260,023	272,070	276,377	288,510	302,139
26,689	28,094	29,702	29,757	30,443	30,851	31,681	31,701	26,828	27,014	28,768	31,352	35,362
69,519	78,488	81,302	86,667	98,589	112,386	128,699	139,726	93,605	76,573	89,389	96,244	96,058
11,133	9,884	16,125	10,546	14,836	15,853	5,873	3,342	-6,387	-9,622	-13,794	-15,908	-25,741
61,565	73,126	83,152	88,231	97,002	104,492	112,391	121,158	134,707	91,864	116,194	118,377	116,907
59,818	69,226	75,242	78,383	94,291	114,035	121,863	139,796	132,401	78,546	98,917	106,884	97,985
20.7	19.0	18.8	17.9	16.7	16.1	15.4	14.9	16.9	17.1	16.6	16.2	15.9
39.0	39.3	43.2	39.7	41.0	41.8	43.0	43.2	42.8	43.3	43.7	43.6	43.6
40.4	41.7	38.0	42.4	42.3	42.1	41.6	42.0	40.3	39.6	39.7	40.2	40.4
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.
25.675	29.142	33.967	36.823	40.055	45.417	49.814	53.443	48.847	48.665	62.124	56.447	57.130
21.837	25.869	27.280	28.328	31.983	40.630	42.929	41.694	27.337	24.004	33.515	31.010	31.288
5.352	4.801	7.022	8.231	7.901	6.533	5.948	10.075	18.429	20.644	25.040	22.695	23.513
-2.988	-4.260	-2.780	-2.106	-2.792	-6.431	-7.663	-4.889	4.096	5.785	7.985	6.899	7.823
2.251	1.528	2.070	0.594	0.784	1.573	4.503	-8.137	-3.693	1.972	3.726	-0.015	4.958
1,842.81	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
642.61	612.48	637.14	743.80	794.55	850.80	910.87	1,003.14	1,688.03	1,859.76	2,003.92	2,245.01	2,357.70
80.1	87.2	91.8	100.0	107.8	118.2	128.7	144.9	253.9	289.9	317.8	352.1	377.3
25.2	26.5	27.9	28.9	30.5	33.9	36.6	39.9	80.5	88.9	100.0	114.2	117.3
27.3	29.9	32.1	35.2	38.2	41.8	45.2	48.2	76.0	91.5	100.0	112.5	123.8
9.00	8.93	7.22	7.25	7.54	8.40	7.64	4.70	-13.13	0.79	4.92	3.44	3.66
1.81	1.73	1.66	1.58	1.50	1.42	1.40	1.38	1.36	1.34	1.32	1.32	1.31
10.0	5.1	5.2	3.7	5.4	11.4	7.9	9.0	101.8	10.5	12.5	14.2	2.8
7.8	9.4	7.5	9.7	8.5	9.4	8.0	6.7	57.6	20.3	9.3	12.5	10.0

## Original Table (Energy Demand and Supply) of Indonesia in 2002

Year:2002

Indonesia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	103,371.78	KTON	0.5437	KTOE/KTON	56,205.53	KTOE
HARD COAL	103,329.09	KTON	0.5437	KTOE/KTON	56,182.31	KTOE
STEAM COAL	103,329.09	KTON	0.5437	KTOE/KTON	56,182.31	KTOE
ANTHRACITE	42.69	KTON	0.5439	KTOE/KTON	23.22	KTOE
CRUDE OIL AND NGL/CONDENSATE	455,624.65	KBBL	0.1266	KTOE/KBBL	57,691.53	KTOE
CRUDE OIL	407,522.40	KBBL	0.1266	KTOE/KBBL	51,600.79	KTOE
NGL/CONDENSATE	48,102.25	KBBL	0.1266	KTOE/KBBL	6,090.74	KTOE
NATURAL GAS AND LNG	2,668,909.53	MN CU FT	0.0207	KTOE/MN CU FT	55,246.43	KTOE
NATURAL GAS	2,668,909.53	MN CU FT	0.0207	KTOE/MN CU FT	55,246.43	KTOE
HYDRO POWER	9,939.58	GWh	0.0860	KTOE/GWh	854.80	KTOE
GEOHERMAL POWER	6,237.73	GWh	0.8600	KTOE/GWh	5,364.45	KTOE
OTHERS	4,418.80	GWh	0.0860	KTOE/GWh	380.02	KTOE
TOTAL PRODUCTION					175,742.76	KTOE
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						KTOE
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						KTOE
<b>STOCK CHANGE</b>						
TOTAL STOCK CHANGE						KTOE
<b>IMPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	124,147.72	KBBL	0.1266	KTOE/KBBL	15,719.68	KTOE
CRUDE OIL	124,147.72	KBBL	0.1266	KTOE/KBBL	15,719.68	KTOE
MOGAS	19,838.94	KBBL	0.1173	KTOE/KBBL	2,327.68	KTOE
JET FUEL	1,234.61	KBBL	0.1186	KTOE/KBBL	146.42	KTOE
AVGAS	6.48	KBBL	0.1186	KTOE/KBBL	0.77	KTOE
KEROSENE	17,100.26	KBBL	0.1193	KTOE/KBBL	2,040.74	KTOE
DIESEL OIL	60,609.57	KBBL	0.1306	KTOE/KBBL	7,917.24	KTOE
FUEL OIL	7,750.01	KBBL	0.1422	KTOE/KBBL	1,102.31	KTOE
OTHER PETROLEUM PRODUCTS	387.73	KBBL	0.1423	KTOE/KBBL	55.16	KTOE
TOTAL IMPORTS					29,310.00	KTOE
<b>EXPORTS</b>						
COAL	74,177.93	KTON	0.5437	KTOE/KTON	40,332.17	KTOE
HARD COAL	74,177.93	KTON	0.5437	KTOE/KTON	40,332.17	KTOE
STEAM COAL	74,177.93	KTON	0.5437	KTOE/KTON	40,332.17	KTOE
CRUDE OIL AND NGL/CONDENSATE	217,274.27	KBBL	0.1266	KTOE/KBBL	27,511.43	KTOE
CRUDE OIL	185,924.92	KBBL	0.1266	KTOE/KBBL	23,541.95	KTOE
NGL/CONDENSATE	31,349.35	KBBL	0.1266	KTOE/KBBL	3,969.48	KTOE
LPG	1,268.09	KTON	1.0468	KTOE/KTON	1,327.45	KTOE
NAPHTHA	10,993.31	KBBL	0.1209	KTOE/KBBL	1,328.65	KTOE
FUEL OIL	3,253.18	KBBL	0.1422	KTOE/KBBL	462.71	KTOE
OTHER PETROLEUM PRODUCTS	41,243.19	KBBL	0.1297	KTOE/KBBL	5,348.21	KTOE
NATURAL GAS AND LNG	1,360,292.74	GBTU	0.0204	KTOE/GBTU	27,763.85	KTOE
LNG	1,360,292.74	GBTU	0.0204	KTOE/GBTU	27,763.85	KTOE
TOTAL EXPORTS					104,074.48	KTOE
<b>INTERNATIONAL MARINE BUNKERS</b>						
DIESEL OIL	991.50	KBBL	0.1306	KTOE/KBBL	129.52	KTOE
FUEL OIL	368.64	KBBL	0.1422	KTOE/KBBL	52.43	KTOE
TOTAL					181.95	KTOE
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					100,796.33	KTOE
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	24.71	KTON	0.5437	KTOE/KTON	13.43	KTOE
HARD COAL	24.71	KTON	0.5437	KTOE/KTON	13.43	KTOE
STEAM COAL	24.71	KTON	0.5437	KTOE/KTON	13.43	KTOE
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	365,860.45	KBBL	0.1266	KTOE/KBBL	46,325.52	KTOE
CRUDE OIL	357,740.11	KBBL	0.1266	KBOE	45,297.32	KTOE
NGL/CONDENSATE	230.59	KBBL	0.1266	KBOE	29.20	KTOE
OTHERS	7,889.75	KBBL	0.1266	KBOE	999.01	KTOE
NATURAL GAS AND LNG	30,874.17	MN CU FT	0.0207	KTOE/MN CU FT	639.10	KTOE
NATURAL GAS	30,874.17	MN CU FT	0.0207	KTOE/MN CU FT	639.10	KTOE
<b>GAS PROCESSING</b>						
NATURAL GAS	1,656,904.52	MN CU FT	0.0207	KTOE/MN CU FT	34,297.92	KTOE
NATURAL GAS	42,321.32	MN CU FT	0.0207	KTOE/MN CU FT	876.05	KTOE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	20,018.46	KTON	0.5437	KTOE/KTON	10,884.48	KTOE
HARD COAL	20,018.46	KTON	0.5437	KTOE/KTON	10,884.48	KTOE
STEAM COAL	20,018.46	KTON	0.5437	KTOE/KTON	10,884.48	KTOE
DIESEL OIL	28,835.37	KBBL	0.1306	KTOE/BBL	3,766.67	KTOE
FUEL OIL	12,078.97	KBBL	0.1422	KTOE/BBL	1,718.04	KTOE
NATURAL GAS AND LNG	202,394.24	MN CU FT	0.0207	KTOE/MN CU FT	4,189.56	KTOE
NATURAL GAS	202,394.24	MN CU FT	0.0207	KTOE/MN CU FT	4,189.56	KTOE
HYDRO POWER	9,939.58	GWh	0.0860	KTOE/GWh	854.80	KTOE
GEOHERMAL POWER	6,237.73	GWh	0.8600	KTOE/GWh	5,364.45	KTOE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
BRIQUETTES	22.70	KTON	0.4513	KTOE/KTON	10.24	KTOE
<b>REFINING</b>						

Original Table (Energy Demand and Supply) of Indonesia in 2002 (Continued)

Year:2002

Indonesia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
LPG	814.18	KTON	1.0468	KTOE/TON	852.29	KTOE
NAPHTHA	16,230.07	KBBL	0.1209	KTOE/KBBL	1,961.57	KTOE
MOGAS	73,287.34	KBBL	0.1173	KTOE/KBBL	8,598.72	KTOE
JET FUEL	9,319.35	KBBL	0.1186	KTOE/KBBL	1,105.23	KTOE
AVGAS	32.81	KBBL	0.1186	KTOE/KBBL	3.89	KTOE
KEROSENE	56,300.80	KBBL	0.1193	KTOE/KBBL	6,718.93	KTOE
DIESEL OIL	102,415.95	KBBL	0.1306	KTOE/KBBL	13,378.28	KTOE
FUEL OIL	37,302.16	KBBL	0.1422	KTOE/KBBL	5,305.63	KTOE
OTHER PETROLEUM PRODUCTS	46,529.01	KBBL	0.1292	KTOE/KBBL	6,009.38	KTOE
<b>GAS RECOVERING</b>						
LNG	1,352,878.48	GBTU	0.0204	KTOE/GBTU	27,612.52	KTOE
LPG	1,285.58	KTON	1.0468	KTOE/TON	1,345.76	KTOE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	91,866.12	GWh	0.0860	KTOE/GWh	7,900.49	KTOE
COAL	42,881.75	GWh	0.0860	KTOE/GWh	3,687.83	KTOE
OIL	25,108.39	GWh	0.0860	KTOE/GWh	2,159.32	KTOE
GAS	23,875.98	GWh	0.0860	KTOE/GWh	2,053.33	KTOE
HYDRO POWER	9,939.58	GWh	0.0860	KTOE/GWh	854.80	KTOE
GEOTHERMAL POWER	6,237.73	GWh	0.0860	KTOE/GWh	536.45	KTOE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
NATURAL GAS AND LNG	401,742.45	MN CU FT	0.0207	KTOE/MN CU FT	8,316.07	KTOE
NATURAL GAS	401,742.45	MN CU FT	0.0207	KTOE/MN CU FT	8,316.07	KTOE
ELECTRICITY	20,995.86	GWh	0.0860	KTOE/GWh	1,805.64	KTOE
TOTAL LOSSES AND OWN USE					10,121.71	KTOE
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	9,213.84	KTON	0.5437	KTOE/TON	5,009.77	KTOE
HARD COAL	9,213.84	KTON	0.5437	KTOE/TON	5,009.77	KTOE
STEAM COAL	9,213.84	KTON	0.5437	KTOE/TON	5,009.77	KTOE
BRIQUETTES	23.34	KTON	0.4513	KTOE/KTON	10.53	KTOE
LPG	831.67	KTON	1.0468	KTOE/TON	870.60	KTOE
MOGAS	86,370.72	KBBL	0.1173	KTOE/KBBL	10,133.77	KTOE
JET FUEL	10,108.12	KBBL	0.1186	KTOE/KBBL	1,198.77	KTOE
AVGAS	8.28	KBBL	0.1186	KTOE/KBBL	0.98	KTOE
KEROSENE	73,452.27	KBBL	0.1193	KTOE/KBBL	8,765.79	KTOE
DIESEL OIL	131,343.91	KBBL	0.1306	KTOE/KBBL	17,157.05	KTOE
FUEL OIL	41,430.35	KBBL	0.1422	KTOE/KBBL	5,892.80	KTOE
NATURAL GAS AND LNG	460,336.67	MN CU FT	0.0207	KTOE/MN CU FT	9,528.97	KTOE
NATURAL GAS	460,336.67	MN CU FT	0.0207	KTOE/MN CU FT	9,528.97	KTOE
ELECTRICITY	87,088.70	GWh	0.0860	KTOE/GWh	7,489.63	KTOE
OTHERS	4,418.80	GWh	0.0860	KTOE/GWh	380.02	KTOE
TOTAL					66,438.68	KTOE
<b>AGRICULTURE</b>						
TOTAL						KTOE
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	3,792.48	KTON	0.5437	KTOE/KTON	2,062.06	KTOE
BRIQUETTES	23.34	KTON	0.4513	KTOE/KTON	10.53	KTOE
LPG	864.93	KTON	1.0468	KTOE/TON	905.42	KTOE
KEROSENE	73,117.27	KBBL	0.1193	KTOE/KBBL	8,725.81	KTOE
NATURAL GAS AND LNG	4,778.00	MN CU FT	0.0207	KTOE/MN CU FT	98.90	KTOE
NATURAL GAS	4,778.00	MN CU FT	0.0207	KTOE/MN CU FT	98.90	KTOE
ELECTRICITY	45,838.60	GWh	0.0860	KTOE/GWh	3,942.12	KTOE
OTHERS	4,418.80	GWh	0.0860	KTOE/GWh	380.02	KTOE
TOTAL					16,124.86	KTOE
<b>OTHERS</b>						
TOTAL						KTOE
<b>INDUSTRY</b>						
COAL	5,421.36	KTON	0.5437	KTOE/KTON	2,947.71	KTOE
HARD COAL	5,421.36	KTON	0.5437	KTOE/KTON	2,947.71	KTOE
STEAM COAL	5,421.36	KTON	0.5437	KTOE/KTON	2,947.71	KTOE
LPG	296.50	KTON	1.0468	KTOE/TON	310.38	KTOE
KEROSENE	335.01	KBBL	0.1193	KTOE/KBBL	39.98	KTOE
DIESEL OIL	51,109.91	KBBL	0.1306	KTOE/KBBL	6,676.33	KTOE
FUEL OIL	25,492.13	KBBL	0.1422	KTOE/KBBL	3,625.85	KTOE
NATURAL GAS AND LNG	246,154.00	MN CU FT	0.0207	KTOE/MN CU FT	5,095.39	KTOE
NATURAL GAS	246,154.00	MN CU FT	0.0207	KTOE/MN CU FT	5,095.39	KTOE
ELECTRICITY	36,831.30	GWh	0.0860	KTOE/GWh	3,167.49	KTOE
TOTAL					21,863.13	KTOE
<b>TRANSPORT</b>						
LPG	0.82	KTON	1.0468	KTOE/TON	0.85	KTOE
MOGAS	86,370.72	KBBL	0.1173	KTOE/KBBL	10,133.77	KTOE
JET FUEL	10,108.12	KBBL	0.1186	KTOE/KBBL	1,198.77	KTOE
AVGAS	8.28	KBBL	0.1186	KTOE/KBBL	0.98	KTOE
DIESEL OIL	80,233.99	KBBL	0.1306	KTOE/KBBL	10,480.72	KTOE
FUEL OIL	1,803.28	KBBL	0.1422	KTOE/KBBL	256.49	KTOE
NATURAL GAS AND LNG	19,515.70	KLME	0.0007	KTOE/KLME	13.64	KTOE
NATURAL GAS	19,515.70	KLME	0.0007	KTOE/KLME	13.64	KTOE
TOTAL					22,085.23	KTOE
<b>NON-ENERGY</b>						
NAPHTHA	5,236.76	KBBL	0.1209	KTOE/KBBL	632.91	KTOE
NATURAL GAS	207,771.67	MN CU FT	0.0207	KTOE/MN CU FT	4,300.87	KTOE



Original Table (Energy Demand and Supply) of Indonesia in 2002 (Continued)

Year:2002

Indonesia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL NON-ENERGY USE					4,933.79	KTOE

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	19943.94	
COAL		
OIL		
GAS		
HYDRO POWER	3155	
NUCLEAR POWER	0	
GEOTHERMAL 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 2002

	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 2002  
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

## Original Table (Energy Price) of Indonesia in 2002

Year: 2002

Indonesia	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			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)			
<b>WHOLESALE PRICES</b>			
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	
<b>CONSUMER PRICES</b>			
COAL			
STEAM COAL			
NATURAL GAS	Rupiah/M <sup>3</sup>	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 2001

	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
<b>1 Indigenous Production</b>	1,484	-	660	-	-	-	-	-	-
<b>2 Import</b>	94,810	-	213,965	50,093	905	21,783	1,931	2,390	1,140
<b>3 Export</b>	-	-1,266	-	-16,150	-372	-53	-6,908	-172	-1,898
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-264	-	-1,130	671	16	377	-127	90	210
<b>6 Total Primary Energy Supply</b>	96,030	-1,266	213,495	34,614	549	22,107	-5,103	2,308	-548
<b>7 Public Electricity</b>	-35,577	-4,343	-4,871	-9,816	-	-52	-	-	-187
<b>8 Autoproducers of Electricity</b>	-5,262	-2,469	-	-11,912	-	-1,106	-	-8	-
<b>9 Gas Processing</b>	-	-814	-	-2,692	-	-72	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-207,802	213,006	45,530	15,147	8,914	23,392	36,091
<b>11 Coal Transformation</b>	-39,670	34,569	-	-736	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-88	-2,795	-7	-11,660	-55	-44	-	-96	-129
<b>13 Discrepancy</b>	407	-3,250	-814	-1,313	53	-1,097	333	-873	218
<b>14 Total Final Energy Consumption</b>	15,840	19,632	1	209,492	46,077	34,883	4,144	24,722	35,446
<b>15 Industry Sector</b>	15,840	18,669	1	72,989	173	34,883	-	6,328	4,676
<b>16 Transport Sector</b>	-	-	-	84,713	45,904	-	4,144	-	28,207
<b>17 Other Sector</b>	-	964	-	45,184	-	-	-	18,394	2,563
<b>18 Agriculture</b>	-	-	-	9,754	-	-	-	2,661	2,448
<b>19 Residential &amp; Commercial</b>	-	964	-	35,430	-	-	-	15,733	115
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	6,605	-	-	-	-	-

## Energy Balance Table of Japan 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
<b>1 Indigenous Production</b>	699	-	628	-	-	-	-	-	-
<b>2 Import</b>	96,603	-	203,935	51,059	1,325	23,153	2,579	2,096	1,018
<b>3 Export</b>	-	-1,573	-	-16,129	-175	-98	-7,558	-205	-1,295
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	137	-	1,413	3,498	707	-371	119	1,157	662
<b>6 Total Primary Energy Supply</b>	97,439	-1,573	205,976	38,428	1,856	22,684	-4,861	3,048	385
<b>7 Public Electricity</b>	-37,051	-4,533	-4,551	-8,809	-	-15	-	-	-190
<b>8 Autoproducers of Electricity</b>	-5,459	-2,505	-	-11,747	-	-1,140	-	-8	-
<b>9 Gas Processing</b>	-	-804	-	-2,532	-	-57	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-201,384	207,572	45,462	15,350	8,643	22,442	34,585
<b>11 Coal Transformation</b>	-39,473	34,719	-	-633	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-94	-2,736	-5	-11,367	-1	-41	-	-72	-66
<b>13 Discrepancy</b>	641	-756	-36	-4,275	-515	-2,364	128	-1,315	-464
<b>14 Total Final Energy Consumption</b>	16,004	21,812	0	206,636	46,803	34,416	3,910	24,095	34,250
<b>15 Industry Sector</b>	16,004	20,795	0	71,794	158	34,416	-	6,528	4,453
<b>16 Transport Sector</b>	-	-	-	84,502	46,645	-	3,910	-	27,515
<b>17 Other Sector</b>	-	1,017	-	44,003	-	-	-	17,567	2,282
<b>18 Agriculture</b>	-	-	-	9,259	-	-	-	2,570	2,165
<b>19 Residential &amp; Commercial</b>	-	1,017	-	34,744	-	-	-	14,997	117
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	6,337	-	-	-	-	-

Energy Balance Table of Japan in 2001 (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
-	-	-	-	2,217	-	7,388	83,680	3,838	2,613	-	-	101,879
1,981	16,256	-	3,707	65,063	-	-	-	-	-	-	-	423,930
-5,950	-39	-	-759	-	-	-	-	-	-	-	-	-17,416
-	-	-	-	-	-	-	-	-	-	-	-	-
253	-188	-	39	2	-	-	-	-	-	-	-	-721
<b>-3,716</b>	<b>16,029</b>	<b>-</b>	<b>2,988</b>	<b>67,281</b>	<b>-</b>	<b>7,388</b>	<b>83,680</b>	<b>3,838</b>	<b>2,613</b>	<b>-</b>	<b>-</b>	<b>507,673</b>
-9,096	-481	-	-	-46,151	-	-6,963	-83,532	-2,654	-185	78,887	-	-115,205
-9,385	-57	-917	-438	-	-337	-425	-147	-204	-1,524	12,965	606	-8,711
-	-2,267	-353	-	-19,489	23,315	-	-	-	-	-	-	320
59,962	5,888	9,628	8,454	-	-	-	-	-	-	-	-	5,204
-	-	-	-736	-	-	-	-	-	-	-	-	-5,838
-2,029	-600	-8,037	-669	-420	-298	-	-	-	-	-9,313	-	-24,580
396	26	-321	-49	-766	-1,086	0	0	0	1,497	24	-66	-5,367
<b>36,132</b>	<b>18,538</b>	<b>-</b>	<b>9,549</b>	<b>455</b>	<b>21,594</b>	<b>-</b>	<b>-</b>	<b>980</b>	<b>2,402</b>	<b>82,562</b>	<b>540</b>	<b>353,497</b>
15,821	8,163	-	2,944	446	7,573	-	-	-	2,355	35,358	-	153,230
5,051	1,407	-	-	-	-	-	-	-	-	1,883	-	86,596
15,260	8,967	-	-	8	14,021	-	-	980	46	45,322	540	107,066
4,645	-	-	-	-	-	-	-	96	-	335	-	10,185
10,615	8,967	-	-	8	14,021	-	-	884	46	44,987	540	96,881
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	6,605	-	-	-	-	-	-	-	-	6,605

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	3,811	2,669	-	-	99,600
1,848	15,712	-	3,328	62,146	-	-	-	-	-	-	-	413,743
-5,932	-114	-	-752	-	-	-	-	-	-	-	-	-17,702
-	-	-	-	-	-	-	-	-	-	-	-	-
371	763	-	91	-11	-	-	-	-	-	-	-	5,037
<b>-3,713</b>	<b>16,361</b>	<b>-</b>	<b>2,668</b>	<b>64,395</b>	<b>-</b>	<b>7,461</b>	<b>82,072</b>	<b>3,811</b>	<b>2,669</b>	<b>-</b>	<b>-</b>	<b>500,678</b>
-8,265	-339	-	-	-43,975	-	-7,017	-81,896	-2,723	-197	78,395	-	-112,357
-9,225	-53	-911	-411	-	-346	-443	-176	-170	-1,542	13,561	613	-8,215
-	-2,126	-348	-	-20,502	24,240	-	-	-	-	-	-	402
58,285	5,263	9,309	8,233	-	-	-	-	-	-	-	-	6,188
-	-	-	-633	-	-	-	-	-	-	-	-	-5,388
-2,012	-577	-7,934	-664	-425	-270	-	-	-	-	-9,115	-	-24,012
302	218	-116	-150	999	-1,886	0	0	0	1,525	24	-64	-3,826
<b>35,372</b>	<b>18,747</b>	<b>-</b>	<b>9,042</b>	<b>493</b>	<b>21,739</b>	<b>-</b>	<b>-</b>	<b>918</b>	<b>2,454</b>	<b>82,865</b>	<b>549</b>	<b>353,470</b>
15,199	8,334	-	2,705	480	7,600	-	-	-	2,412	35,289	-	154,374
5,036	1,396	-	-	-	-	-	-	-	-	1,871	-	86,373
15,137	9,017	-	-	14	14,139	-	-	918	42	45,705	549	106,387
4,524	-	-	-	-	-	-	-	97	-	335	-	9,692
10,613	9,017	-	-	14	14,139	-	-	821	42	45,370	549	96,695
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	6,337	-	-	-	-	-	-	-	-	6,337

## Major Energy Indicators of Japan

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	352,597	337,651	364,423	365,072	366,995	375,901	401,166	416,865	432,546
Indigenous Production	48,709	53,683	56,615	64,769	66,548	70,952	67,666	71,035	72,578
Import	319,945	292,313	317,621	311,332	315,207	318,646	340,523	361,349	376,440
Export	-16,707	-11,374	-12,485	-12,480	-12,102	-12,708	-11,436	-13,366	-14,834
Final Energy Consumption	252,650	241,436	256,901	257,526	259,769	266,120	285,715	294,920	305,094
Industry	131,376	115,807	124,125	124,842	121,885	124,437	134,008	138,785	140,776
Transport	52,317	53,452	54,971	55,640	57,499	59,443	62,750	66,865	70,090
Residential & Commercial	54,206	58,030	62,325	62,009	64,414	65,523	71,231	71,524	74,657
Agriculture	8,175	7,488	8,503	8,185	8,549	9,149	9,853	9,739	11,231
Coal, Coal Products									
Primary Energy Supply	63,565	61,563	69,361	73,023	68,658	66,538	74,867	74,388	75,641
Indigenous Production	12,522	10,792	10,648	10,424	9,193	7,402	7,431	6,782	5,890
Import	51,439	52,206	60,448	64,305	62,130	62,099	69,137	68,973	70,045
Export	-1,465	-1,362	-1,649	-1,553	-1,597	-2,096	-1,921	-1,655	-1,039
Transformation Sector	-23,990	-26,489	-30,227	-32,633	-32,184	-32,836	-35,466	-34,820	-35,904
Power Generation	-10,689	-15,744	-18,317	-20,221	-20,314	-21,678	-23,292	-23,027	-24,751
Final Energy Consumption	37,439	34,614	38,306	38,907	36,065	35,413	38,432	39,141	39,154
Industry	36,446	33,643	37,134	37,739	35,105	34,645	37,548	38,329	38,389
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	992	971	1,172	1,168	961	768	884	812	765
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	219,555	185,129	191,390	174,713	168,963	163,929	174,143	183,890	200,317
Indigenous Production	426	432	418	547	647	622	609	562	554
Import	219,405	181,897	187,902	173,672	170,418	162,467	169,936	183,783	200,267
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-216,743	-181,917	-186,975	-172,057	-166,228	-161,649	-170,972	-180,556	-199,060
Petroleum Refineries	-202,533	-167,474	-173,312	-160,698	-153,686	-149,478	-154,722	-164,279	-180,435
Petroleum Products									
Primary Energy Supply	14,099	26,578	28,024	31,312	39,613	48,380	56,545	56,068	48,789
Import	29,468	36,276	39,157	41,114	49,594	59,956	65,454	69,747	64,444
Export	-15,242	-10,012	-10,836	-10,927	-10,505	-10,612	-9,514	-11,712	-13,795
Transformation Sector	145,365	117,585	124,051	118,903	113,024	110,124	112,454	119,115	132,184
Power Generation	-42,852	-34,546	-34,232	-27,681	-25,910	-25,332	-27,950	-30,159	-33,288
Petroleum Refineries	203,921	165,712	171,754	159,102	151,118	147,500	152,796	161,934	178,475
Final Energy Consumption	158,787	147,267	154,808	153,149	157,111	161,690	173,729	178,512	183,505
Industry	65,073	52,934	55,825	55,111	55,192	57,307	61,770	63,842	63,618
Transport	51,008	52,088	53,597	54,251	56,079	57,988	61,215	65,255	68,395
Residential & Commercial	28,079	28,316	30,141	29,000	30,126	29,940	33,280	31,942	32,223
Agriculture	8,054	7,270	8,268	7,935	8,292	8,886	9,590	9,467	10,930
Natural Gas, Town Gas									
Primary Energy Supply	21,748	23,777	31,995	34,204	34,924	36,050	37,845	40,612	43,479
Indigenous Production	2,115	1,839	1,881	1,962	1,857	1,912	1,849	1,772	1,803
Import	19,633	21,934	30,115	32,242	33,065	34,124	35,996	38,846	41,684
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-12,799	-14,318	-20,996	-23,264	-23,357	-23,884	-25,642	-26,008	-29,535
Power Generation	-15,892	-17,041	-23,985	-25,981	-26,222	-26,556	-28,532	-29,219	-32,457
Final Energy Consumption	9,228	10,136	11,117	11,274	11,809	11,971	12,971	13,381	14,055
Industry	2,180	2,439	2,688	2,872	2,851	2,983	3,225	3,519	3,977
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	7,047	7,696	8,429	8,402	8,958	8,988	9,746	9,862	10,078
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	48,677	51,604	55,004	56,805	57,410	59,794	63,522	66,968	71,693
Thermal	33,746	34,396	38,109	36,298	36,321	36,668	41,103	42,713	47,028
Hydro	7,828	7,847	5,991	7,435	6,767	6,836	7,366	8,197	7,827
Nuclear	7,103	9,361	10,903	13,072	14,321	16,290	15,053	16,058	16,838
Final Energy Consumption	44,024	45,922	48,926	50,353	51,003	53,135	56,563	59,742	64,052
Industry	25,216	24,302	25,863	26,475	26,215	26,894	28,776	30,318	31,971
Transport	1,309	1,365	1,374	1,389	1,420	1,455	1,535	1,610	1,696
Residential & Commercial	17,395	20,058	21,479	22,266	23,137	24,551	26,016	27,567	30,115
Agriculture	104	197	211	223	230	235	236	247	270

Major Energy Indicators of Japan (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
446,104	452,789	456,866	476,302	490,786	503,422	511,340	498,873	511,108	509,254	507,673	500,678	
76,720	76,938	85,609	85,889	94,829	97,863	104,463	105,509	101,781	101,967	101,879	99,600	
384,593	391,110	391,322	413,678	417,131	427,144	431,129	410,437	419,381	424,865	423,930	413,743	
-16,505	-18,686	-20,020	-21,805	-23,158	-20,412	-22,328	-21,023	-12,702	-18,018	-17,416	-17,702	
315,963	318,537	319,447	329,495	339,893	347,315	351,193	347,393	359,863	359,974	353,497	353,470	
144,606	141,094	142,093	144,884	150,362	151,661	155,230	150,117	155,543	160,749	153,230	154,374	
73,024	75,534	75,848	79,304	81,288	84,314	85,927	86,474	93,957	86,933	86,596	86,373	
78,721	82,586	82,367	86,094	89,200	91,917	91,114	92,510	93,232	95,458	96,881	96,695	
11,553	11,233	11,132	11,235	11,292	11,590	11,157	10,906	10,127	9,988	10,185	9,692	
77,477	75,467	76,636	78,860	82,827	84,973	86,849	84,977	87,759	90,989	94,764	95,866	
5,197	4,392	4,146	4,012	3,593	3,526	2,922	2,118	2,150	1,674	1,484	699	
73,719	72,915	74,335	76,921	81,045	83,197	85,072	84,430	86,956	90,986	94,810	96,603	
-1,649	-1,882	-1,969	-2,081	-1,995	-1,637	-1,806	-1,661	-1,534	-1,488	-1,266	-1,573	
-36,835	-38,069	-39,005	-41,468	-44,123	-47,187	-48,852	-49,523	-51,620	-52,445	-56,449	-57,935	
-26,146	-27,941	-28,802	-31,580	-33,953	-36,373	-37,655	-38,841	-40,801	-44,901	-47,651	-49,547	
39,638	37,423	37,200	37,102	37,618	37,748	38,664	36,670	36,607	39,318	35,472	37,815	
38,899	36,726	36,494	36,196	36,578	36,667	37,681	35,664	35,681	38,414	34,508	36,799	
-	-	-	-	-	-	-	-	-	-	-	-	
739	697	706	906	1,040	1,081	983	1,006	926	904	964	1,017	
-	-	-	-	-	-	-	-	-	-	-	-	
213,111	223,772	224,060	237,445	234,712	232,179	237,160	226,231	222,525	218,284	213,495	205,976	
771	881	800	764	758	736	741	696	643	642	660	628	
212,455	219,939	223,398	237,404	234,050	230,932	238,053	223,210	219,394	216,923	213,965	203,935	
-	-	-	-	-	-	-	-	-	-	-	-	
-210,834	-221,385	-220,853	-234,875	-231,046	-231,164	-235,115	-225,358	-222,041	-218,543	-212,680	-205,940	
-191,664	-203,252	-206,831	-215,914	-215,641	-216,388	-223,015	-217,086	-213,816	-210,772	-207,802	-201,384	
40,204	36,216	29,610	29,549	32,742	38,374	31,121	27,309	41,538	37,546	34,614	38,428	
53,859	52,587	47,693	50,019	52,010	58,717	52,593	45,136	52,731	54,172	50,093	51,059	
-14,856	-16,805	-18,051	-19,725	-21,163	-18,775	-20,521	-19,362	-11,168	-16,529	-16,150	-16,129	
144,030	153,176	160,337	165,225	167,679	168,933	177,736	172,434	176,338	175,291	176,190	172,482	
-31,318	-33,174	-28,988	-32,888	-29,361	-28,839	-26,559	-25,812	-25,656	-24,516	-21,728	-20,557	
188,898	200,296	203,770	212,765	211,914	212,606	219,453	213,565	217,590	215,580	213,006	207,572	
190,060	193,344	193,200	198,701	205,895	209,463	209,971	207,140	217,981	211,417	209,492	206,636	
65,235	64,113	65,308	67,345	71,062	70,974	71,844	69,687	74,609	74,943	72,989	71,794	
71,283	73,756	74,062	77,448	79,465	82,462	84,064	84,598	92,080	85,058	84,713	84,502	
34,236	36,480	35,007	35,077	36,709	37,029	35,569	34,984	34,584	35,007	35,430	34,744	
11,247	10,905	10,815	10,853	10,908	11,166	10,730	10,485	9,704	9,564	9,754	9,259	
46,443	47,574	47,840	51,339	51,975	56,262	57,419	59,690	62,309	64,940	67,281	64,395	
1,883	1,904	1,943	2,005	1,948	1,967	2,010	2,029	2,011	2,157	2,217	2,261	
44,561	45,670	45,897	49,334	50,027	54,299	55,410	57,661	60,301	62,784	65,063	62,146	
-	-	-	-	-	-	-	-	-	-	-	-	
-31,548	-31,854	-31,223	-33,443	-34,006	-35,699	-37,299	-38,517	-41,159	-42,882	-43,380	-41,277	
-34,678	-35,055	-34,603	-36,731	-37,355	-39,184	-40,571	-41,599	-44,326	-45,970	-46,488	-44,321	
15,274	16,071	17,076	17,638	18,479	19,618	20,041	20,445	21,220	22,242	22,049	22,233	
4,627	5,013	5,572	6,034	6,471	6,903	7,444	7,587	8,026	8,618	8,019	8,080	
-	-	-	-	-	-	-	-	-	-	-	-	
10,648	11,059	11,504	11,604	12,008	12,715	12,597	12,859	13,194	13,624	14,030	14,153	
-	-	-	-	-	-	-	-	-	-	-	-	
74,663	75,685	76,137	80,803	82,828	85,268	87,356	88,444	89,463	92,239	91,852	91,956	
48,076	49,617	46,211	52,340	50,947	52,637	52,063	51,731	54,543	57,262	56,850	57,411	
8,574	7,314	8,542	6,140	7,124	7,037	7,624	8,567	7,600	7,479	7,388	7,461	
18,012	18,754	21,384	22,322	24,757	25,594	27,669	28,147	27,320	27,498	27,614	27,084	
66,618	67,492	67,918	72,145	73,825	76,374	78,297	79,220	80,196	82,912	82,562	82,865	
33,038	32,583	32,197	32,973	33,823	34,677	35,740	34,896	34,951	36,289	35,358	35,289	
1,741	1,778	1,786	1,856	1,823	1,853	1,863	1,876	1,877	1,875	1,883	1,871	
31,576	32,849	33,664	36,986	37,876	39,521	40,375	42,131	43,045	44,420	44,987	45,370	
263	282	272	331	304	323	319	317	323	328	335	335	



## Major Economic Indicators of Japan

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	116.78	119.26	120.02	120.75	121.49	122.09	122.61	123.12
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	3,297.74	3,578.67	3,716.31	3,885.94	3,999.51	4,174.84	4,448.27	4,681.67
Real Term (Billions of 1995 Price and 1995 PPP)	1,762.43	1,912.57	1,986.13	2,076.78	2,137.48	2,231.18	2,377.31	2,502.05
Nominal (Billions of Current USD)	1,075.22	1,206.25	1,287.33	1,370.09	2,028.70	2,465.01	2,984.39	2,975.18
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	28,238	30,008	30,965	32,181	32,920	34,194	36,279	38,026
Real Term (1995 Price and 1995 PPP)	15,092	16,037	16,549	17,198	17,594	18,275	19,389	20,323
Nominal (Current USD)	9,207	10,115	10,726	11,346	16,698	20,190	24,340	24,166
Nominal GDP & its Components (Billions of Current JPY) *1								
Gross Domestic Product	243,797	286,499	305,769	326,816	341,876	356,534	382,454	410,469
Household Final Consumption Expenditure, etc.	134,255	159,909	168,196	177,670	184,731	193,137	204,298	218,442
General Government Final Consumption Expenditure	32,422	40,157	42,516	44,742	47,417	49,521	51,766	55,008
Gross Fixed Capital Formation	77,571	81,160	85,766	91,009	94,761	102,465	115,297	127,808
Stock Change	1,731	281	1,105	2,236	1,646	752	2,787	3,063
Exports of Goods and Services	32,817	39,125	44,902	46,176	38,058	36,180	37,431	42,273
Imports of Goods and Services	35,036	34,258	36,865	35,137	24,777	25,619	29,191	36,036
Real GDP & its Components (Billions of 1995 JPY) *1								
Gross Domestic Product	310,184	336,608	349,555	365,510	376,193	392,684	418,402	440,356
Household Final Consumption Expenditure, etc.	174,188	188,261	192,907	200,135	206,610	215,183	226,046	236,645
General Government Final Consumption Expenditure	44,554	51,492	53,279	53,933	56,421	58,373	60,504	62,110
Gross Fixed Capital Formation	85,702	86,846	90,497	95,156	99,896	108,915	122,148	132,690
Stock Change	1,205	161	800	1,957	1,386	738	2,663	2,977
Exports of Goods and Services	23,228	27,591	31,680	33,437	31,597	31,425	33,266	36,292
Imports of Goods and Services	18,716	17,768	19,632	19,137	19,741	21,975	26,252	30,386
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	3.3	3.3	3.2	3.1	3.0	2.9	2.7	2.6
Industry	37.0	35.8	36.0	36.5	35.4	36.0	36.6	37.0
Services, etc.	59.8	60.9	60.8	60.5	61.6	61.1	60.7	60.3
Industrial Production Index (2000=100) *2	66.4	69.5	75.9	78.7	78.6	81.3	88.9	94.0
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	130.441	146.965	169.700	177.164	210.757	231.286	264.856	273.932
Imports, c.i.f.	141.296	126.437	136.176	130.488	127.553	151.033	187.378	209.715
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.130	31.460	44.260	55.292	91.188	91.583	92.242	80.122
Current Account	-10.750	20.800	35.000	51.129	85.877	84.351	79.249	63.215
Overall Balance	5.026	1.550	2.120	-0.500	15.130	38.050	17.560	-13.050
Foreign Exchange Rate (JPY/USD) *1	226.7408	237.5117	237.5225	238.5358	168.5198	144.6375	128.1517	137.9644
Purchasing Power Parity (JPY/International Dollar) *1	236.3761	212.3731	210.5853	208.8807	207.6222	201.7284	196.4150	193.0745
Price Indices								
GDP Deflator (1995=100) *3	78.6	85.1	87.5	89.4	90.9	90.8	91.4	93.2
Wholesale Price Index (2000=100) *2	113.4	114.8	114.9	114.0	108.6	105.2	104.7	106.7
Consumer Price Index (2000=100) *2	75.2	82.5	84.4	86.1	86.7	86.8	87.4	89.3
Growth Rate (%) *3								
Real GDP	2.82	2.34	3.85	4.56	2.92	4.38	6.55	5.25
Population	0.79	0.68	0.64	0.61	0.61	0.49	0.43	0.41
Price								
Wholesale Price Index	15.0	-0.6	0.1	-0.8	-4.7	-3.1	-0.6	1.9
Consumer Price Index	7.8	1.9	2.3	2.0	0.6	0.1	0.7	2.3

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"

: JPY shows Yen, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Japan (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
123.54	123.92	124.23	124.54	124.96	125.44	125.76	126.09	126.41	126.65	126.87	127.04	127.15
4,924.77	5,085.29	5,136.01	5,151.36	5,203.61	5,303.79	5,485.54	5,586.12	5,523.16	5,528.60	5,683.62	5,707.03	5,725.50
2,631.97	2,717.76	2,744.86	2,753.07	2,780.99	2,834.53	2,931.66	2,985.42	2,951.77	2,954.68	3,037.52	3,050.04	3,059.91
3,053.14	3,488.62	3,808.75	4,374.30	4,812.45	5,303.79	4,706.30	4,323.06	3,946.21	4,469.58	4,763.83	4,175.59	3,993.43
39,865	41,037	41,343	41,364	41,642	42,282	43,619	44,302	43,692	43,653	44,799	44,924	45,029
21,305	21,931	22,095	22,107	22,255	22,597	23,311	23,677	23,351	23,329	23,942	24,009	24,065
24,714	28,152	30,659	35,125	38,512	42,282	37,423	34,285	31,218	35,291	37,549	32,869	31,407
442,072	469,941	482,383	486,412	491,870	498,872	511,947	523,051	516,579	509,116	513,377	507,455	500,729
234,280	247,568	258,035	264,156	272,636	276,835	283,382	288,808	288,103	286,583	285,808	286,240	286,250
58,870	62,603	66,163	69,183	71,389	74,729	77,557	79,164	80,795	82,895	85,997	88,098	89,360
142,202	149,032	146,775	142,011	138,663	138,118	144,983	146,130	138,208	133,461	134,617	130,036	N.A.
2,547	3,192	1,013	297	-701	2,232	3,486	3,191	30	-1,715	-360	-92	N.A.
45,863	46,668	47,288	44,109	44,270	45,230	49,561	56,074	55,051	51,144	55,256	52,567	55,815
41,690	39,121	36,891	33,344	34,387	38,272	47,022	50,316	45,607	43,251	47,940	49,393	49,330
463,222	478,320	483,091	484,534	489,449	498,872	515,967	525,428	519,506	520,018	534,599	536,801	538,538
247,393	254,495	261,141	264,738	271,843	276,835	283,588	286,278	285,988	286,555	289,389	294,247	298,548
63,733	65,901	67,645	69,834	71,718	74,729	76,916	77,656	79,298	82,749	86,667	88,877	90,888
143,428	146,695	143,221	139,220	137,096	138,118	147,012	148,354	142,557	141,322	145,129	143,803	N.A.
2,327	2,933	1,001	244	-716	2,232	3,618	3,412	202	-1,602	-167	-25	N.A.
38,818	40,420	42,004	41,970	43,430	45,230	48,161	53,582	52,342	53,120	59,681	56,031	60,615
32,510	32,155	31,943	31,490	33,931	38,272	43,324	43,855	40,859	42,089	46,077	46,102	47,050
2.5	2.2	2.2	2.0	2.0	1.9	1.9	1.7	1.7	1.6	1.6	1.6	N.A.
37.7	37.7	36.6	35.5	34.4	34.0	34.0	34.1	32.9	33.2	33.8	32.3	N.A.
59.8	60.2	61.1	62.4	63.4	63.9	64.0	64.1	65.3	65.1	64.6	65.9	N.A.
98.0	99.8	94.1	90.8	92.0	95.5	97.7	101.2	94.5	94.8	100.0	93.7	92.6
287.581	314.786	339.885	362.244	397.005	443.116	410.901	420.957	387.927	419.367	479.249	403.496	416.726
235.368	236.999	233.246	241.624	275.235	335.882	349.152	338.754	280.484	311.262	379.511	349.089	337.194
69.283	96.084	124.764	139.417	144.191	131.787	83.585	101.600	122.389	123.325	116.716	70.214	93.829
44.078	68.204	112.574	131.637	130.255	111.044	65.792	96.814	118.749	114.604	119.660	87.798	112.447
-9.090	-8.389	0.620	27.473	25.265	58.611	35.141	6.567	-6.164	76.256	48.955	40.487	46.134
144.7925	134.7067	126.6513	111.1978	102.2078	94.0596	108.7791	120.9909	130.9053	113.9068	107.7655	121.5289	125.3880
190.1749	188.9500	187.7794	184.4267	180.7289	175.9982	171.7996	169.4245	167.2386	162.1683	155.7814	150.3644	146.1960
95.4	98.2	99.9	100.4	100.5	100.0	99.2	99.5	99.4	97.9	96.0	94.5	93.0
108.3	109.4	108.4	106.7	104.9	104.1	102.4	103.0	101.5	100.0	100.0	97.7	95.7
92.1	95.1	96.7	97.9	98.6	98.5	98.6	100.4	101.0	100.7	100.0	99.3	98.4
5.19	3.26	1.00	0.30	1.01	1.93	3.43	1.83	-1.13	0.10	2.80	0.41	0.32
0.34	0.31	0.25	0.25	0.34	0.38	0.26	0.26	0.25	0.19	0.17	0.13	0.09
1.5	1.0	-0.9	-1.5	-1.7	-0.8	-1.6	0.7	-1.5	-1.5	0.1	-2.3	-2.1
3.1	3.2	1.7	1.3	0.7	-0.1	0.1	1.7	0.7	-0.3	-0.7	-0.7	-0.9

## Original Table (Energy Demand and Supply) of Japan in 2002

Year:2002

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
HARD COAL	1,369.20	10 <sup>3</sup> t	0.5106	10 <sup>7</sup> kcal/t	699.15	10 <sup>10</sup> kcal
STEAM COAL	1,369.20	10 <sup>3</sup> t	0.5106	10 <sup>7</sup> kcal/t	699.15	10 <sup>10</sup> kcal
CRUDE OIL	724.00	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	627.66	10 <sup>10</sup> kcal
NATURAL GAS	2,570.65	10 <sup>6</sup> cubic m	0.8794	10 <sup>4</sup> kcal/cubic m	2,260.50	10 <sup>10</sup> kcal
HYDRO POWER	86,751.44	GWh	0.0860	10 <sup>10</sup> kcal/GWh	7,460.62	10 <sup>10</sup> kcal
NUCLEAR POWER	314,934.29	GWh	0.2606	10 <sup>10</sup> kcal/GWh	82,071.88	10 <sup>10</sup> kcal
OTHER THERMAL POWER	3,364.16	GWh	0.8600	10 <sup>10</sup> kcal/GWh	2,893.18	10 <sup>10</sup> kcal
OTHER POWER(WASTE,ETC)	20,124.23	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,730.68	10 <sup>10</sup> kcal
OTHER THERMAL	245.79	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	227.35	10 <sup>10</sup> kcal
SOLAR	746.82	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	690.80	10 <sup>10</sup> kcal
OTHER COMMERCIAL	1,014.04	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	937.98	10 <sup>10</sup> kcal
TOTAL PRODUCTION					99,599.81	10 <sup>10</sup> kcal
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						10 <sup>10</sup> kcal
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						10 <sup>10</sup> kcal
<b>STOCK CHANGE</b>						
HARD COAL	268.00	10 <sup>3</sup> t	0.5106	10 <sup>7</sup> kcal/t	136.85	10 <sup>10</sup> kcal
STEAM COAL	268.00	10 <sup>3</sup> t	0.5106	10 <sup>7</sup> kcal/t	136.85	10 <sup>10</sup> kcal
CRUDE OIL	1,630.00	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	1,413.09	10 <sup>10</sup> kcal
LPG	670.00	10 <sup>3</sup> t	1.1400	10 <sup>7</sup> kcal/t	763.31	10 <sup>10</sup> kcal
NAPHTHA	-480.00	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	-371.46	10 <sup>10</sup> kcal
MOGAS	900.00	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	706.71	10 <sup>10</sup> kcal
JET FUEL	143.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	119.10	10 <sup>10</sup> kcal
KEROSENE	1,389.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	1,156.88	10 <sup>10</sup> kcal
DIESEL OIL	764.00	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	662.33	10 <sup>10</sup> kcal
FUEL OIL	418.11	10 <sup>3</sup> kL	0.8864	10 <sup>7</sup> kcal/kL	370.61	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	103.34	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	90.81	10 <sup>10</sup> kcal
NATURAL GAS	-12.84	10 <sup>6</sup> cubic m	0.8820	10 <sup>4</sup> kcal/cubic m	-11.29	10 <sup>10</sup> kcal
TOTAL STOCK CHANGE					5,036.94	10 <sup>10</sup> kcal
<b>IMPORTS</b>						
HARD COAL	150,667.96	10 <sup>3</sup> t	0.6251	10 <sup>7</sup> kcal/t	94,187.32	10 <sup>10</sup> kcal
STEAM COAL	88,725.78	10 <sup>3</sup> t	0.6037	10 <sup>7</sup> kcal/t	53,561.31	10 <sup>10</sup> kcal
COKING COAL	61,942.18	10 <sup>3</sup> t	0.6559	10 <sup>7</sup> kcal/t	40,626.00	10 <sup>10</sup> kcal
ANTHRACITE	3,912.90	10 <sup>3</sup> t	0.6173	10 <sup>7</sup> kcal/t	2,415.39	10 <sup>10</sup> kcal
CRUDE OIL	230,271.08	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	199,628.49	10 <sup>10</sup> kcal
NGL	5,375.92	10 <sup>3</sup> kL	0.8011	10 <sup>7</sup> kcal/kL	4,306.73	10 <sup>10</sup> kcal
LPG	13,791.00	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	15,711.56	10 <sup>10</sup> kcal
NAPHTHA	29,918.00	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	23,152.97	10 <sup>10</sup> kcal
MOGAS	1,687.00	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	1,324.68	10 <sup>10</sup> kcal
JET FUEL	3,096.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	2,578.61	10 <sup>10</sup> kcal
KEROSENE	2,517.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	2,096.38	10 <sup>10</sup> kcal
DIESEL OIL	1,174.00	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	1,017.77	10 <sup>10</sup> kcal
FUEL OIL	2,008.00	10 <sup>3</sup> kL	0.9204	10 <sup>7</sup> kcal/kL	1,848.32	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	3,787.70	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	3,328.44	10 <sup>10</sup> kcal
LNG	53,037.00	10 <sup>3</sup> t	1.1718	10 <sup>7</sup> kcal/t	62,146.13	10 <sup>10</sup> kcal
TOTAL IMPORTS					413,742.79	10 <sup>10</sup> kcal
<b>EXPORTS</b>						
COKE	2,303.00	10 <sup>3</sup> t	0.6831	10 <sup>7</sup> kcal/t	1,573.19	10 <sup>10</sup> kcal
LPG	100.00	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	113.93	10 <sup>10</sup> kcal
NAPHTHA	126.00	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	97.51	10 <sup>10</sup> kcal
MOGAS	223.00	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	175.11	10 <sup>10</sup> kcal
JET FUEL	9,075.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	7,558.44	10 <sup>10</sup> kcal
KEROSENE	246.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	204.89	10 <sup>10</sup> kcal
DIESEL OIL	1,494.00	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	1,295.19	10 <sup>10</sup> kcal
FUEL OIL	6,275.30	10 <sup>3</sup> kL	0.9453	10 <sup>7</sup> kcal/kL	5,931.99	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	855.23	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	751.53	10 <sup>10</sup> kcal
TOTAL EXPORTS					17,701.78	10 <sup>10</sup> kcal
<b>INTERNATIONAL MARINE BUNKERS</b>						
TOTAL PRIMARY ENERGY SUPPLY					500,677.76	10 <sup>10</sup> kcal
<b>TRANSFORMATION SECTOR(INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
HARD COAL	60,184.61	10 <sup>3</sup> t	0.6559	10 <sup>7</sup> kcal/t	39,473.26	10 <sup>10</sup> kcal
COKING COAL	60,184.61	10 <sup>3</sup> t	0.6559	10 <sup>7</sup> kcal/t	39,473.26	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	783.99	10 <sup>3</sup> t	0.8079	10 <sup>7</sup> kcal/t	633.41	10 <sup>10</sup> kcal
<b>REFINING</b>						
CRUDE OIL	227,344.57	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	197,091.41	10 <sup>10</sup> kcal
NGL	5,357.86	10 <sup>3</sup> kL	0.8011	10 <sup>7</sup> kcal/kL	4,292.26	10 <sup>10</sup> kcal
<b>GAS PROCESSING</b>						
COKE	17,481.63	10 <sup>3</sup> t	0.6831	10 <sup>7</sup> kcal/t	11,941.75	10 <sup>10</sup> kcal
COKE OVEN GAS	387.54	10 <sup>6</sup> cubic m	0.4537	10 <sup>4</sup> kcal/cubic m	175.81	10 <sup>10</sup> kcal
REFINERY GAS	366.74	10 <sup>10</sup> kcal	0.9500	kcal/kcal	348.41	10 <sup>10</sup> kcal
LPG	1,866.51	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	2,126.45	10 <sup>10</sup> kcal
NAPHTHA	74.20	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	57.42	10 <sup>10</sup> kcal
NATURAL GAS	1,574.39	10 <sup>3</sup> t	1.1700	10 <sup>7</sup> kcal/t	1,842.03	10 <sup>10</sup> kcal
LNG	15,924.67	10 <sup>3</sup> t	1.1718	10 <sup>7</sup> kcal/t	18,659.74	10 <sup>10</sup> kcal
<b>POWER GENERATION (NATIONAL,PUBLIC UTILITIE)</b>						
COAL	63,799.52	10 <sup>3</sup> t	0.5807	10 <sup>7</sup> kcal/t	37,050.61	10 <sup>10</sup> kcal
COKE OVEN GAS	3,129.06	10 <sup>6</sup> cubic m	0.4537	10 <sup>4</sup> kcal/cubic m	1,419.50	10 <sup>10</sup> kcal

Original Table (Energy Demand and Supply) of Japan in 2002 (Continued)

Year:2002

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
BLAST FURNACE GAS	40,338.07	10 <sup>6</sup> cubic m	0.0772	10 <sup>4</sup> kcal/cubic m	3,113.48	10 <sup>10</sup> kcal
CRUDE OIL	5,073.70	10 <sup>3</sup> kL	0.8942	10 <sup>7</sup> kcal/kL	4,536.71	10 <sup>10</sup> kcal
NGL	17.99	10 <sup>3</sup> kL	0.8011	10 <sup>7</sup> kcal/kL	14.41	10 <sup>10</sup> kcal
LPG	297.98	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	339.47	10 <sup>10</sup> kcal
NAPHTHA	19.24	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	14.89	10 <sup>10</sup> kcal
DIESEL OIL	219.42	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	190.22	10 <sup>10</sup> kcal
FUEL OIL	8,839.15	10 <sup>3</sup> kL	0.9350	10 <sup>7</sup> kcal/kL	8,264.71	10 <sup>10</sup> kcal
NATURAL GAS	383.50	10 <sup>3</sup> t	1.1700	10 <sup>7</sup> kcal/t	448.70	10 <sup>10</sup> kcal
LNG	37,146.37	10 <sup>3</sup> t	1.1718	10 <sup>7</sup> kcal/t	43,526.28	10 <sup>10</sup> kcal
HYDRO POWER	81,595.31	GWh	0.0860	10 <sup>10</sup> kcal/GWh	7,017.20	10 <sup>10</sup> kcal
NUCLEAR POWER	314,258.37	GWh	0.2606	10 <sup>10</sup> kcal/GWh	81,895.73	10 <sup>10</sup> kcal
THERMAL POWER	3,166.17	GWh	0.8600	10 <sup>10</sup> kcal/GWh	2,722.91	10 <sup>10</sup> kcal
OTHER POWER(WASTE,ETC)	2,290.57	GWh	0.0860	10 <sup>10</sup> kcal/GWh	196.99	10 <sup>10</sup> kcal
<b>POWER GENERATION (PRIVATE, AUTO PRODUCERS)</b>						
COAL	9,477.25	10 <sup>3</sup> t	0.5760	10 <sup>7</sup> kcal/t	5,458.75	10 <sup>10</sup> kcal
COKE OVEN GAS	1,315.06	10 <sup>6</sup> cubic m	0.4314	10 <sup>4</sup> kcal/cubic m	567.28	10 <sup>10</sup> kcal
BLAST FURNACE GAS	24,923.90	10 <sup>6</sup> cubic m	0.0777	10 <sup>4</sup> kcal/cubic m	1,937.73	10 <sup>10</sup> kcal
REFINERY GAS	958.94	10 <sup>10</sup> kcal	0.9500	kcal/kcal	910.99	10 <sup>10</sup> kcal
LPG	46.47	10 <sup>3</sup> t	1.1400	10 <sup>7</sup> kcal/t	52.97	10 <sup>10</sup> kcal
NAPHTHA	1,500.65	10 <sup>3</sup> kL	0.7598	10 <sup>7</sup> kcal/kL	1,140.21	10 <sup>10</sup> kcal
KEROSENE	9.10	10 <sup>3</sup> kL	0.8455	10 <sup>7</sup> kcal/kL	7.58	10 <sup>10</sup> kcal
FUEL OIL	9,930.76	10 <sup>3</sup> kL	0.9289	10 <sup>7</sup> kcal/kL	9,224.78	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	508.87	10 <sup>3</sup> t	0.8075	10 <sup>7</sup> kcal/t	410.91	10 <sup>10</sup> kcal
TOWN GAS	383.95	10 <sup>10</sup> kcal	0.9000	kcal/kcal	345.56	10 <sup>10</sup> kcal
HYDRO POWER	5,156.12	GWh	0.0860	10 <sup>10</sup> kcal/GWh	443.43	10 <sup>10</sup> kcal
NUCLEAR POWER	675.92	GWh	0.2606	10 <sup>10</sup> kcal/GWh	176.15	10 <sup>10</sup> kcal
THERMAL POWER	197.99	GWh	0.8600	10 <sup>10</sup> kcal/GWh	170.27	10 <sup>10</sup> kcal
OTHER POWER(WASTE,ETC)	17,935.46	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,542.45	10 <sup>10</sup> kcal
<b>TRANSFORMATION SECTOR (OUTPUT)</b>					385,956.86	10 <sup>10</sup> kcal
<b>COAL TRANSFORMATION</b>						
COKE	39,976.01	10 <sup>3</sup> t	0.6831	10 <sup>7</sup> kcal/t	27,307.74	10 <sup>10</sup> kcal
COKE OVEN GAS	16,287.84	10 <sup>6</sup> cubic m	0.4537	10 <sup>4</sup> kcal/cubic m	7,388.98	10 <sup>10</sup> kcal
BRIQUETTES	41.09	10 <sup>3</sup> t	0.5424	10 <sup>7</sup> kcal/t	22.28	10 <sup>10</sup> kcal
<b>GAS RECOVERING</b>						
BLAST FURNACE GAS	141,430.02	10 <sup>6</sup> cubic m	0.0800	10 <sup>4</sup> kcal/cubic m	11,313.24	10 <sup>10</sup> kcal
<b>REFINING</b>						
REFINERY GAS	9,798.63	10 <sup>10</sup> kcal	0.9500	kcal/kcal	9,308.70	10 <sup>10</sup> kcal
LPG	4,620.00	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	5,263.39	10 <sup>10</sup> kcal
NAPHTHA	19,834.72	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	15,349.71	10 <sup>10</sup> kcal
MOGAS	57,897.00	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	45,462.35	10 <sup>10</sup> kcal
JET FUEL	10,377.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	8,642.86	10 <sup>10</sup> kcal
KEROSENE	26,945.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	22,442.13	10 <sup>10</sup> kcal
DIESEL OIL	39,894.00	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	34,585.23	10 <sup>10</sup> kcal
FUEL OIL	64,078.52	10 <sup>3</sup> kL	0.9096	10 <sup>7</sup> kcal/kL	58,284.76	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	9,368.43	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	8,232.51	10 <sup>10</sup> kcal
<b>GAS PROCESSING</b>						
TOWN GAS	26,933.74	10 <sup>10</sup> kcal	0.9000	kcal/kcal	24,240.40	10 <sup>10</sup> kcal
<b>POWER GENERATION (NATIONAL,PUBLIC UTILITIE)</b>						
THERMAL	510,362.80	GWh	0.0860	10 <sup>10</sup> kcal/GWh	43,891.20	10 <sup>10</sup> kcal
HYDRO POWER	81,595.31	GWh	0.0860	10 <sup>10</sup> kcal/GWh	7,017.20	10 <sup>10</sup> kcal
NUCLEAR POWER	314,258.37	GWh	0.0860	10 <sup>10</sup> kcal/GWh	27,026.22	10 <sup>10</sup> kcal
THERMAL POWER	3,166.17	GWh	0.0860	10 <sup>10</sup> kcal/GWh	272.29	10 <sup>10</sup> kcal
OTHER POWER(WASTE,ETC)	2,188.77	GWh	0.0860	10 <sup>10</sup> kcal/GWh	188.23	10 <sup>10</sup> kcal
<b>POWER GENERATION (PRIVATE, AUTO PRODUCERS)</b>						
THERMAL	133,715.43	GWh	0.0860	10 <sup>10</sup> kcal/GWh	11,499.53	10 <sup>10</sup> kcal
HYDRO POWER	5,156.12	GWh	0.0860	10 <sup>10</sup> kcal/GWh	443.43	10 <sup>10</sup> kcal
NUCLEAR POWER	675.92	GWh	0.0860	10 <sup>10</sup> kcal/GWh	58.13	10 <sup>10</sup> kcal
THERMAL POWER	197.99	GWh	0.0860	10 <sup>10</sup> kcal/GWh	17.03	10 <sup>10</sup> kcal
OTHER POWER(WASTE,ETC)	17,935.46	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,542.45	10 <sup>10</sup> kcal
HEAT	613.09	10 <sup>10</sup> kcal	1.0000	kcal/kcal	613.09	10 <sup>10</sup> kcal
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COAL	187.68	10 <sup>3</sup> t	0.5000	10 <sup>7</sup> kcal/t	93.84	10 <sup>10</sup> kcal
COKE OVEN GAS	2,989.07	10 <sup>6</sup> cubic m	0.4537	10 <sup>4</sup> kcal/cubic m	1,355.99	10 <sup>10</sup> kcal
BLAST FURNACE GAS	18,151.47	10 <sup>6</sup> cubic m	0.0760	10 <sup>4</sup> kcal/cubic m	1,379.60	10 <sup>10</sup> kcal
CRUDE OIL	5.97	10 <sup>3</sup> kL	0.8942	10 <sup>7</sup> kcal/kL	5.34	10 <sup>10</sup> kcal
NGL	0.07	10 <sup>3</sup> kL	0.8011	10 <sup>7</sup> kcal/kL	0.06	10 <sup>10</sup> kcal
REFINERY GAS	8,351.35	10 <sup>10</sup> kcal	0.9500	kcal/kcal	7,933.78	10 <sup>10</sup> kcal
LPG	506.10	10 <sup>3</sup> t	1.1400	10 <sup>7</sup> kcal/t	576.58	10 <sup>10</sup> kcal
NAPHTHA	53.31	10 <sup>3</sup> kL	0.7739	10 <sup>7</sup> kcal/kL	41.26	10 <sup>10</sup> kcal
MOGAS	1.73	10 <sup>3</sup> kL	0.7980	10 <sup>7</sup> kcal/kL	1.36	10 <sup>10</sup> kcal
KEROSENE	86.91	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	72.39	10 <sup>10</sup> kcal
DIESEL OIL	76.26	10 <sup>3</sup> kL	0.8740	10 <sup>7</sup> kcal/kL	66.11	10 <sup>10</sup> kcal
FUEL OIL	2,166.36	10 <sup>3</sup> kL	0.9287	10 <sup>7</sup> kcal/kL	2,011.94	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	755.48	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	663.88	10 <sup>10</sup> kcal
NATURAL GAS	423.10	10 <sup>6</sup> cubic m	0.8794	10 <sup>4</sup> kcal/cubic m	372.05	10 <sup>10</sup> kcal
LNG	44.93	10 <sup>3</sup> t	1.1718	10 <sup>7</sup> kcal/t	52.64	10 <sup>10</sup> kcal
TOWN GAS	300.09	10 <sup>10</sup> kcal	0.9000	kcal/kcal	270.08	10 <sup>10</sup> kcal
ELECTRICITY	105,987.23	GWh	0.0860	10 <sup>10</sup> kcal/GWh	9,114.91	10 <sup>10</sup> kcal
TOTAL LOSSES AND OWN USE					24,011.82	10 <sup>10</sup> kcal
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
HARD COAL	25,102.96	10 <sup>3</sup> t	0.6168	10 <sup>7</sup> kcal/t	15,483.65	10 <sup>10</sup> kcal

Original Table (Energy Demand and Supply) of Japan in 2002 (Continued)

Year:2002

Japan	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
STEAM COAL	12,840.50	10 <sup>3</sup> t	0.5795	10 <sup>7</sup> kcal/t	7,441.07	10 <sup>10</sup> kcal
COKING COAL	12,262.46	10 <sup>3</sup> t	0.6559	10 <sup>7</sup> kcal/t	8,042.58	10 <sup>10</sup> kcal
ANTHRACITE	842.34	10 <sup>3</sup> t	0.6175	10 <sup>7</sup> kcal/t	519.97	10 <sup>10</sup> kcal
COKE	21,374.78	10 <sup>3</sup> t	0.6831	10 <sup>7</sup> kcal/t	14,601.18	10 <sup>10</sup> kcal
COKE OVEN GAS	8,256.78	10 <sup>6</sup> cubic m	0.4320	10 <sup>4</sup> kcal/cubic m	3,566.93	10 <sup>10</sup> kcal
BRIQUETTES	41.09	10 <sup>3</sup> t	0.5424	10 <sup>7</sup> kcal/t	22.28	10 <sup>10</sup> kcal
BLAST FURNACE GAS	44,533.24	10 <sup>6</sup> cubic m	0.0813	10 <sup>4</sup> kcal/cubic m	3,621.46	10 <sup>10</sup> kcal
CRUDE OIL	0.99	10 <sup>3</sup> kL	0.0539	10 <sup>7</sup> kcal/kL	0.05	10 <sup>10</sup> kcal
LPG	16,444.65	10 <sup>3</sup> t	1.1400	10 <sup>7</sup> kcal/t	18,746.91	10 <sup>10</sup> kcal
NAPHTHA	45,284.33	10 <sup>3</sup> kL	0.7600	10 <sup>7</sup> kcal/kL	34,416.09	10 <sup>10</sup> kcal
MOGAS	59,604.00	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	46,802.74	10 <sup>10</sup> kcal
JET FUEL	4,695.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	3,910.40	10 <sup>10</sup> kcal
KEROSENE	29,278.40	10 <sup>3</sup> kL	0.8230	10 <sup>7</sup> kcal/kL	24,095.40	10 <sup>10</sup> kcal
DIESEL OIL	39,507.37	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	34,250.05	10 <sup>10</sup> kcal
FUEL OIL	39,426.30	10 <sup>3</sup> kL	0.8972	10 <sup>7</sup> kcal/kL	35,372.41	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	10,289.24	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	9,041.67	10 <sup>10</sup> kcal
NATURAL GAS	559.37	10 <sup>6</sup> cubic m	0.8820	10 <sup>4</sup> kcal/cubic m	493.36	10 <sup>10</sup> kcal
TOWN GAS	24,948.06	10 <sup>10</sup> kcal	0.8714	kcal/kcal	21,739.19	10 <sup>10</sup> kcal
OTHERMAL	249.14	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	227.35	10 <sup>10</sup> kcal
SOLAR	757.00	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	690.80	10 <sup>10</sup> kcal
OTHER COMMERCIAL	2,652.74	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	2,453.78	10 <sup>10</sup> kcal
ELECTRICITY	963,547.39	GWh	0.0860	10 <sup>10</sup> kcal/GWh	82,865.11	10 <sup>10</sup> kcal
HEAT	549.34	10 <sup>10</sup> kcal	1.0000	kcal/kcal	549.34	10 <sup>10</sup> kcal
<b>TOTAL</b>					353,470.14	10 <sup>10</sup> kcal
<b>AGRICULTURE</b>						
KEROSENE	3,085.41	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	2,569.79	10 <sup>10</sup> kcal
DIESEL OIL	2,497.53	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	2,165.18	10 <sup>10</sup> kcal
FUEL OIL	5,095.50	10 <sup>3</sup> kL	0.8879	10 <sup>7</sup> kcal/kL	4,524.17	10 <sup>10</sup> kcal
OTHERMAL	106.77	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	97.44	10 <sup>10</sup> kcal
ELECTRICITY	3,896.02	GWh	0.0860	10 <sup>10</sup> kcal/GWh	335.06	10 <sup>10</sup> kcal
<b>TOTAL</b>					9,691.64	10 <sup>10</sup> kcal
<b>RESIDENTIAL COMMERCIAL</b>						
COKE	1,455.93	10 <sup>3</sup> t	0.6831	10 <sup>7</sup> kcal/t	994.55	10 <sup>10</sup> kcal
BRIQUETTES	41.09	10 <sup>3</sup> t	0.5424	10 <sup>7</sup> kcal/t	22.28	10 <sup>10</sup> kcal
LPG	7,914.82	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	9,017.05	10 <sup>10</sup> kcal
KEROSENE	18,006.45	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	14,997.33	10 <sup>10</sup> kcal
DIESEL OIL	134.60	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	116.69	10 <sup>10</sup> kcal
FUEL OIL	11,941.78	10 <sup>3</sup> kL	0.8887	10 <sup>7</sup> kcal/kL	10,612.95	10 <sup>10</sup> kcal
NATURAL GAS	15.41	10 <sup>6</sup> cubic m	0.8820	10 <sup>4</sup> kcal/cubic m	13.59	10 <sup>10</sup> kcal
TOWN GAS	15,710.33	10 <sup>10</sup> kcal	0.9000	kcal/kcal	14,139.32	10 <sup>10</sup> kcal
OTHERMAL	142.36	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	129.92	10 <sup>10</sup> kcal
SOLAR	757.00	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	690.80	10 <sup>10</sup> kcal
OTHER COMMERCIAL	45.11	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	41.73	10 <sup>10</sup> kcal
ELECTRICITY	527,557.16	GWh	0.0860	10 <sup>10</sup> kcal/GWh	45,369.94	10 <sup>10</sup> kcal
HEAT	549.34	10 <sup>10</sup> kcal	1.0000	kcal/kcal	549.34	10 <sup>10</sup> kcal
<b>TOTAL</b>					96,695.49	10 <sup>10</sup> kcal
<b>OTHERS</b>						
<b>TOTAL</b>						10 <sup>10</sup> kcal
<b>INDUSTRY</b>						
HARD COAL	25,102.96	10 <sup>3</sup> t	0.6168	10 <sup>7</sup> kcal/t	15,483.65	10 <sup>10</sup> kcal
STEAM COAL	12,840.50	10 <sup>3</sup> t	0.5795	10 <sup>7</sup> kcal/t	7,441.07	10 <sup>10</sup> kcal
COKING COAL	12,262.46	10 <sup>3</sup> t	0.6559	10 <sup>7</sup> kcal/t	8,042.58	10 <sup>10</sup> kcal
ANTHRACITE	842.34	10 <sup>3</sup> t	0.6175	10 <sup>7</sup> kcal/t	519.97	10 <sup>10</sup> kcal
COKE	19,918.85	10 <sup>3</sup> t	0.6831	10 <sup>7</sup> kcal/t	13,606.63	10 <sup>10</sup> kcal
COKE OVEN GAS	8,256.78	10 <sup>6</sup> cubic m	0.4320	10 <sup>4</sup> kcal/cubic m	3,566.93	10 <sup>10</sup> kcal
BLAST FURNACE GAS	44,533.24	10 <sup>6</sup> cubic m	0.0813	10 <sup>4</sup> kcal/cubic m	3,621.46	10 <sup>10</sup> kcal
CRUDE OIL	0.99	10 <sup>3</sup> kL	0.0539	10 <sup>7</sup> kcal/kL	0.05	10 <sup>10</sup> kcal
LPG	7,310.68	10 <sup>3</sup> t	1.1400	10 <sup>7</sup> kcal/t	8,334.17	10 <sup>10</sup> kcal
NAPHTHA	45,284.33	10 <sup>3</sup> kL	0.7600	10 <sup>7</sup> kcal/kL	34,416.09	10 <sup>10</sup> kcal
MOGAS	200.67	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	157.57	10 <sup>10</sup> kcal
KEROSENE	8,186.54	10 <sup>3</sup> kL	0.7974	10 <sup>7</sup> kcal/kL	6,528.28	10 <sup>10</sup> kcal
DIESEL OIL	5,137.02	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	4,453.43	10 <sup>10</sup> kcal
FUEL OIL	16,832.91	10 <sup>3</sup> kL	0.9030	10 <sup>7</sup> kcal/kL	15,199.44	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	3,078.32	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	2,705.08	10 <sup>10</sup> kcal
NATURAL GAS	543.95	10 <sup>6</sup> cubic m	0.8820	10 <sup>7</sup> kcal/kL	479.77	10 <sup>10</sup> kcal
TOWN GAS	9,237.72	10 <sup>10</sup> kcal	0.8227	kcal/kcal	7,599.87	10 <sup>10</sup> kcal
OTHER COMMERCIAL	2,607.63	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	2,412.06	10 <sup>10</sup> kcal
ELECTRICITY	410,338.72	GWh	0.0860	10 <sup>10</sup> kcal/GWh	35,289.15	10 <sup>10</sup> kcal
<b>TOTAL</b>					154,373.59	10 <sup>10</sup> kcal
<b>TRANSPORT</b>						
LPG	1,225.08	10 <sup>3</sup> t	1.1393	10 <sup>7</sup> kcal/t	1,395.68	10 <sup>10</sup> kcal
MOGAS	59,403.33	10 <sup>3</sup> kL	0.7852	10 <sup>7</sup> kcal/kL	46,645.17	10 <sup>10</sup> kcal
JET FUEL	4,695.00	10 <sup>3</sup> kL	0.8329	10 <sup>7</sup> kcal/kL	3,910.40	10 <sup>10</sup> kcal
DIESEL OIL	31,738.21	10 <sup>3</sup> kL	0.8669	10 <sup>7</sup> kcal/kL	27,514.75	10 <sup>10</sup> kcal
FUEL OIL	5,533.34	10 <sup>3</sup> kL	0.9101	10 <sup>7</sup> kcal/kL	5,035.85	10 <sup>10</sup> kcal
ELECTRICITY	21,755.50	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,870.97	10 <sup>10</sup> kcal
<b>TOTAL</b>					86,372.82	10 <sup>10</sup> kcal
<b>NON-ENERGY</b>	7,210.91	10 <sup>3</sup> kL	0.8788	10 <sup>7</sup> kcal/kL	6,336.59	10 <sup>10</sup> kcal

## Original Table (Energy Demand and Supply) of Japan in 2002 (Continued)

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	172,889	
COAL	66,832	
OIL	33,010	
GAS	73,048	
HYDRO POWER	46,545	
NUCLEAR POWER	45,907	
GEOTHERMAL POWER	788	
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

## REFINING CAPACITY

At the time of 2002

	Unit	
OPERATING RATE (*1)	%	
CRUDE DISTILLATION CAPACITY	1000BD	4977
VACUUM DISTILLATION CAPACITY	1000BD	1748
CATALYTIC HYDROCRACKING CAPACITY	1000BD	143
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	2367
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	1503
CATALYTIC CRACKING CAPACITY	1000BD	983
CATALYTIC REFORMING CAPACITY	1000BD	823

(\*1) crude throughput/distillation capacity

## NON-COMMERCIAL ENERGY TABLE

At the time of 2002  
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

## Original Table (Disaggregated Final Energy Demand) of Japan in 2002

Japan	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
	<b>I INDUSTRIAL SECTOR</b>							
<b>1.1 IRON AND STEEL (*1)</b>								
HARD COAL	13,522.06	10 <sup>3</sup> t	0.6829	10 <sup>7</sup> kcal/t	9,234.23	10 <sup>10</sup> kcal		
STEAM COAL	1,259.60	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	768.36	10 <sup>10</sup> kcal		
COKING COAL	12,262.46	10 <sup>3</sup> t	0.7600	10 <sup>7</sup> kcal/t	8,465.87	10 <sup>10</sup> kcal		
COKE	18,694.73	10 <sup>3</sup> t	0.7200	10 <sup>7</sup> kcal/t	13,442.56	10 <sup>10</sup> kcal		
COKE OVEN GAS	7,691.10	10 <sup>6</sup> cubic m	0.4800	10 <sup>4</sup> kcal/cubic m	3,691.73	10 <sup>10</sup> kcal		
BLAST FURNACE GAS	44,010.69	10 <sup>6</sup> cubic m	0.0891	10 <sup>4</sup> kcal/cubic m	3,921.81	10 <sup>10</sup> kcal		
LPG	417.43	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	500.91	10 <sup>10</sup> kcal		
KEROSENE	193.36	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	169.52	10 <sup>10</sup> kcal		
DIESEL OIL	45.70	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	41.70	10 <sup>10</sup> kcal		
FUEL OIL	1,488.05	10 <sup>3</sup> kL	0.9586	10 <sup>7</sup> kcal/kL	1,426.44	10 <sup>10</sup> kcal		
OTHER PETROLEUM PRODUCTS	338.33	10 <sup>3</sup> t	0.8500	10 <sup>7</sup> kcal/t	287.58	10 <sup>10</sup> kcal		
TOWN GAS	1,503.68	10 <sup>10</sup> kcal	1.0000	kcal/kcal	1,339.47	10 <sup>10</sup> kcal		
ELECTRICITY	80,942.27	GWh	0.0860	10 <sup>10</sup> kcal/GWh	6,961.04	10 <sup>10</sup> kcal		
PUBLIC UTILITIES	55,113.45	GWh	0.0860	10 <sup>10</sup> kcal/GWh	4,739.76	10 <sup>10</sup> kcal		
AUTOPRODUCER	25,828.82	GWh	0.0860	10 <sup>10</sup> kcal/GWh	2,221.28	10 <sup>10</sup> kcal		
TOTAL					41,016.99	10 <sup>10</sup> kcal		
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>								
HARD COAL	1,622.31	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	989.61	10 <sup>10</sup> kcal		
STEAM COAL	1,622.31	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	989.61	10 <sup>10</sup> kcal		
COKE	49.17	10 <sup>3</sup> t	0.7200	10 <sup>7</sup> kcal/t	35.35	10 <sup>10</sup> kcal		
COKE OVEN GAS	48.03	10 <sup>6</sup> cubic m	0.4800	10 <sup>4</sup> kcal/cubic m	23.05	10 <sup>10</sup> kcal		
BLAST FURNACE GAS	312.86	10 <sup>6</sup> cubic m	0.1930	10 <sup>4</sup> kcal/cubic m	60.37	10 <sup>10</sup> kcal		
CRUDE OIL AND NGL	0.99	10 <sup>3</sup> kL	0.0568	10 <sup>7</sup> kcal/kL	0.06	10 <sup>10</sup> kcal		
LPG	2,420.30	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	2,904.37	10 <sup>10</sup> kcal		
NAPHTHA	44,999.69	10 <sup>3</sup> kL	0.8000	10 <sup>7</sup> kcal/kL	35,999.75	10 <sup>10</sup> kcal		
KEROSENE	393.09	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	344.63	10 <sup>10</sup> kcal		
DIESEL OIL	1.85	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	1.69	10 <sup>10</sup> kcal		
FUEL OIL	2,584.92	10 <sup>3</sup> kL	0.9522	10 <sup>7</sup> kcal/kL	2,461.48	10 <sup>10</sup> kcal		
OTHER PETROLEUM PRODUCTS	668.28	10 <sup>3</sup> KG	0.8500	10 <sup>7</sup> kcal/kL	568.04	10 <sup>10</sup> kcal		
NATURAL GAS	381.02	10 <sup>6</sup> cubic m	0.9771	10 <sup>7</sup> kcal/kL	372.28	10 <sup>10</sup> kcal		
TOWN GAS	1,907.34	10 <sup>10</sup> kcal	1.0000	kcal/kcal	1,525.34	10 <sup>10</sup> kcal		
OTHER COMMERCIAL	30.36	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	28.09	10 <sup>10</sup> kcal		
ELECTRICITY	63,364.00	GWh	0.0860	10 <sup>10</sup> kcal/GWh	5,449.31	10 <sup>10</sup> kcal		
PUBLIC UTILITIES	29,184.86	GWh	0.0860	10 <sup>10</sup> kcal/GWh	2,509.90	10 <sup>10</sup> kcal		
AUTOPRODUCER	34,179.14	GWh	0.0860	10 <sup>10</sup> kcal/GWh	2,939.41	10 <sup>10</sup> kcal		
TOTAL					50,861.74	10 <sup>10</sup> kcal		
<b>1.3 NON-FERROUS METALS (*3)</b>								
HARD COAL	134.31	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	81.93	10 <sup>10</sup> kcal		
STEAM COAL	134.31	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	81.93	10 <sup>10</sup> kcal		
COKE	258.15	10 <sup>3</sup> t	0.7200	10 <sup>7</sup> kcal/t	185.63	10 <sup>10</sup> kcal		
LPG	178.67	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	214.40	10 <sup>10</sup> kcal		
KEROSENE	176.54	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	154.77	10 <sup>10</sup> kcal		
DIESEL OIL	3.88	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	3.54	10 <sup>10</sup> kcal		
FUEL OIL	716.81	10 <sup>3</sup> kL	0.9439	10 <sup>7</sup> kcal/kL	676.62	10 <sup>10</sup> kcal		
OTHER PETROLEUM PRODUCTS	13.04	10 <sup>3</sup> t	0.8500	10 <sup>7</sup> kcal/t	11.08	10 <sup>10</sup> kcal		
TOWN GAS	364.20	10 <sup>10</sup> kcal	1.0000	kcal/kcal	364.20	10 <sup>10</sup> kcal		
ELECTRICITY	18,537.35	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,594.21	10 <sup>10</sup> kcal		
PUBLIC UTILITIES	16,212.98	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,394.32	10 <sup>10</sup> kcal		
AUTOPRODUCER	2,324.37	GWh	0.0860	10 <sup>10</sup> kcal/GWh	199.90	10 <sup>10</sup> kcal		
TOTAL					3,286.56	10 <sup>10</sup> kcal		
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>								
HARD COAL	7,073.08	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	4,314.58	10 <sup>10</sup> kcal		
STEAM COAL	7,073.08	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	4,314.58	10 <sup>10</sup> kcal		
ANTHRACITE	691.02	10 <sup>3</sup> t	0.6500	10 <sup>7</sup> kcal/t	449.01	10 <sup>10</sup> kcal		
COKE	225.08	10 <sup>3</sup> t	0.7200	10 <sup>7</sup> kcal/t	161.84	10 <sup>10</sup> kcal		
COKE OVEN GAS	334.90	10 <sup>6</sup> cubic m	0.4800	10 <sup>4</sup> kcal/cubic m	160.75	10 <sup>10</sup> kcal		
BLAST FURNACE GAS	207.44	10 <sup>6</sup> cubic m	0.2000	10 <sup>4</sup> kcal/cubic m	41.49	10 <sup>10</sup> kcal		
LPG	166.50	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	199.80	10 <sup>10</sup> kcal		
KEROSENE	81.63	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	71.57	10 <sup>10</sup> kcal		
DIESEL OIL	7.81	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	7.13	10 <sup>10</sup> kcal		
FUEL OIL	2,541.51	10 <sup>3</sup> kL	0.9554	10 <sup>7</sup> kcal/kL	2,428.09	10 <sup>10</sup> kcal		
OTHER PETROLEUM PRODUCTS	1,075.91	10 <sup>3</sup> KG	0.8500	10 <sup>7</sup> kcal/kL	914.53	10 <sup>10</sup> kcal		
TOWN GAS	384.72	10 <sup>10</sup> kcal	1.0000	kcal/kcal	384.72	10 <sup>10</sup> kcal		
ELECTRICITY	21,140.89	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,818.12	10 <sup>10</sup> kcal		
PUBLIC UTILITIES	14,143.77	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,216.36	10 <sup>10</sup> kcal		
AUTOPRODUCER	6,997.12	GWh	0.0860	10 <sup>10</sup> kcal/GWh	601.75	10 <sup>10</sup> kcal		
TOTAL					10,951.62	10 <sup>10</sup> kcal		
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>								

Original Table (Disaggregated Final Energy Demand) of Japan in 2002 (Continued)

Japan	2002					
	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HARD COAL	2,399.00	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	1,463.39	10 <sup>10</sup> kcal
STEAM COAL	2,399.00	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	1,463.39	10 <sup>10</sup> kcal
LPG	36.21	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	43.45	10 <sup>10</sup> kcal
KEROSENE	139.06	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	121.92	10 <sup>10</sup> kcal
DIESEL OIL	2.67	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	2.43	10 <sup>10</sup> kcal
FUEL OIL	2,541.83	10 <sup>3</sup> kL	0.9729	10 <sup>7</sup> kcal/kL	2,472.89	10 <sup>10</sup> kcal
TOWN GAS	661.80	10 <sup>10</sup> kcal	1.0000	kcal/kcal	414.59	10 <sup>10</sup> kcal
OTHER COMMERCIAL	2,528.70	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	2,339.05	10 <sup>10</sup> kcal
ELECTRICITY	34,958.87	GWh	0.0860	10 <sup>10</sup> kcal/GWh	3,006.46	10 <sup>10</sup> kcal
PUBLIC UTILITIES	11,243.60	GWh	0.0860	10 <sup>10</sup> kcal/GWh	966.95	10 <sup>10</sup> kcal
AUTOPRODUCER	23,715.27	GWh	0.0860	10 <sup>10</sup> kcal/GWh	2,039.51	10 <sup>10</sup> kcal
TOTAL					9,946.87	10 <sup>10</sup> kcal
<b>1.6 OTHER INDUSTRIES (*6)</b>						
HARD COAL	352.19	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	214.83	10 <sup>10</sup> kcal
STEAM COAL	352.19	10 <sup>3</sup> t	0.6100	10 <sup>7</sup> kcal/t	214.83	10 <sup>10</sup> kcal
COKE	691.71	10 <sup>3</sup> t	0.7200	10 <sup>7</sup> kcal/t	497.38	10 <sup>10</sup> kcal
COKE OVEN GAS	182.75	10 <sup>6</sup> cubic m	0.4800	10 <sup>4</sup> kcal/cubic m	87.72	10 <sup>10</sup> kcal
LPG	4,091.57	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	4,909.89	10 <sup>10</sup> kcal
NAPHTHA	284.64	10 <sup>3</sup> kL	0.8000	10 <sup>7</sup> kcal/kL	227.71	10 <sup>10</sup> kcal
MOGAS	200.67	10 <sup>3</sup> kL	0.8400	10 <sup>7</sup> kcal/kL	165.86	10 <sup>10</sup> kcal
KEROSENE	7,202.86	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	6,009.46	10 <sup>10</sup> kcal
DIESEL OIL	5,075.12	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	4,631.33	10 <sup>10</sup> kcal
FUEL OIL	6,959.79	10 <sup>3</sup> kL	0.9388	10 <sup>7</sup> kcal/kL	6,533.89	10 <sup>10</sup> kcal
OTHER PETROLEUM PRODUCTS	1,156.49	10 <sup>3</sup> t	0.8504	10 <sup>7</sup> kcal/t	983.53	10 <sup>10</sup> kcal
NATURAL GAS	164.57	10 <sup>6</sup> cubic m	0.9800	10 <sup>7</sup> kcal/kL	160.79	10 <sup>10</sup> kcal
TOWN GAS	4,415.99	10 <sup>10</sup> kcal	1.0000	kcal/kcal	4,415.99	10 <sup>10</sup> kcal
ELECTRICITY	191,395.34	GWh	0.0860	10 <sup>10</sup> kcal/GWh	16,460.01	10 <sup>10</sup> kcal
PUBLIC UTILITIES	177,840.71	GWh	0.0860	10 <sup>10</sup> kcal/GWh	15,294.31	10 <sup>10</sup> kcal
AUTOPRODUCER	13,554.63	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,165.70	10 <sup>10</sup> kcal
TOTAL					45,343.33	10 <sup>10</sup> kcal
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
JET FUEL	4,695.00	10 <sup>3</sup> kL	0.8700	10 <sup>7</sup> kcal/kL	4,116.21	10 <sup>10</sup> kcal
TOTAL					4,116.21	10 <sup>10</sup> kcal
<b>2.2 ROAD</b>						
LPG	1,225.08	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	1,469.14	10 <sup>10</sup> kcal
MOGAS	59,403.33	10 <sup>3</sup> kL	0.8400	10 <sup>7</sup> kcal/kL	49,100.18	10 <sup>10</sup> kcal
DIESEL OIL	30,037.01	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	27,410.46	10 <sup>10</sup> kcal
TOTAL					77,979.77	10 <sup>10</sup> kcal
<b>2.3 RAIL</b>						
DIESEL OIL	1,133.19	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	1,034.10	10 <sup>10</sup> kcal
ELECTRICITY	21,755.49	GWh	0.0860	10 <sup>10</sup> kcal/GWh	1,870.97	10 <sup>10</sup> kcal
TOTAL					2,905.07	10 <sup>10</sup> kcal
<b>2.4 INTERNAL NAVIGATION</b>						
DIESEL OIL	568.00	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	518.33	10 <sup>10</sup> kcal
FUEL OIL	5,533.34	10 <sup>3</sup> kL	0.9580	10 <sup>7</sup> kcal/kL	5,300.90	10 <sup>10</sup> kcal
TOTAL					5,819.23	10 <sup>10</sup> kcal
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
COKE	1,455.93	10 <sup>3</sup> t	0.7200	10 <sup>7</sup> kcal/t	1,046.90	10 <sup>10</sup> kcal
KEROSENE	3,091.45	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	2,710.35	10 <sup>10</sup> kcal
DIESEL OIL	134.60	10 <sup>3</sup> kL	0.9200	10 <sup>7</sup> kcal/kL	122.83	10 <sup>10</sup> kcal
FUEL OIL	11,941.78	10 <sup>3</sup> kL	0.9355	10 <sup>7</sup> kcal/kL	11,171.53	10 <sup>10</sup> kcal
NATURAL GAS	15.41	10 <sup>6</sup> cubic m	0.9800	10 <sup>4</sup> kcal/cubic m	15.11	10 <sup>10</sup> kcal
TOWN GAS	6,262.29	10 <sup>10</sup> kcal	1.0000	kcal/kcal	6,262.29	10 <sup>10</sup> kcal
GEOTHERMAL	142.36	10 <sup>3</sup> kL	0.9126	10 <sup>7</sup> kcal/kL	129.92	10 <sup>10</sup> kcal
SOLAR	20.00	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	18.25	10 <sup>10</sup> kcal
ELECTRICITY	259,764.31	GWh	0.0860	10 <sup>10</sup> kcal/GWh	22,339.74	10 <sup>10</sup> kcal
HEAT	518.92	10 <sup>10</sup> kcal	1.0000	kcal/kcal	518.92	10 <sup>10</sup> kcal
TOTAL					47,294.54	10 <sup>10</sup> kcal
<b>3.2 RESIDENTIAL</b>						
BRIQUETTES	41.09	10 <sup>3</sup> t	0.5700	10 <sup>7</sup> kcal/t	23.46	10 <sup>10</sup> kcal
LPG	5,447.62	10 <sup>3</sup> t	1.2000	10 <sup>7</sup> kcal/t	6,532.91	10 <sup>10</sup> kcal
KEROSENE	14,915.00	10 <sup>3</sup> kL	0.8900	10 <sup>7</sup> kcal/kL	13,076.32	10 <sup>10</sup> kcal
TOWN GAS	9,448.05	10 <sup>10</sup> kcal	1.0000	kcal/kcal	9,448.06	10 <sup>10</sup> kcal
OTHER COMMERCIAL	45.11	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	41.73	10 <sup>10</sup> kcal
ELECTRICITY	267,792.85	GWh	0.0860	10 <sup>10</sup> kcal/GWh	23,030.20	10 <sup>10</sup> kcal
HEAT	30.43	10 <sup>10</sup> kcal	1.0000	kcal/kcal	30.43	10 <sup>10</sup> kcal
TOTAL					52,855.65	10 <sup>10</sup> kcal
SOLAR	804.00	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	733.56	10 <sup>10</sup> kcal



Original Table (Disaggregated Final Energy Demand) of Japan in 2002 (Continued)

Japan	2002					
	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
OTHER COMMERCIAL	49.85	10 <sup>3</sup> kL	0.9250	10 <sup>7</sup> kcal/kL	46.11	10 <sup>10</sup> kcal
ELECTRICITY	265,581.54	GWh	0.0860	10 <sup>10</sup> kcal/GWh	22,835.91	10 <sup>10</sup> kcal
HEAT	30.62	10 <sup>10</sup> kcal	1.0000	kcal/kcal	30.61	10 <sup>10</sup> kcal
TOTAL					53,580.02	10 <sup>10</sup> kcal

**Original Table (Energy Price) of Japan in 2002**  
Year: 2002

Japan	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL			
HARD COAL			
STEAM COAL	Yen/ton	4,390.0	
COKING COAL	Yen/ton	5,119.0	
SUBBITUMINOUS COAL			
CRUDE OIL	Yen/kL	20,963.0	
PETROLEUM PRODUCTS			
LPG	Yen/ton	36,756.0	
NAPHTHA	Yen/kL	21,978.0	
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
A HEAVY OIL			
C FUEL OIL	Yen/kL	21,818.0	
NATURAL GAS (LNG)	Yen/ton	28,019.0	
<b>WHOLESALE PRICES</b>			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA	Yen/kL	24,590.1	
MOGAS	Yen/kL	93,841.9	
JET FUEL		N.A.	
KEROSENE	Yen/kL	41,034.4	
DIESEL OIL	Yen/kL	105,848.5	
A HEAVY OIL	Yen/kL	39,309.2	
C FUEL OIL	Yen/kL	14,997.2	
LPG			
ELECTRICITY (AVERAGE)	Yen/kWh	NA	
INDUSTRIAL USERS	Yen/kWh	NA	
COMMERCIAL USERS	Yen/kWh	NA	
<b>CONSUMER PRICES</b>			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	Yen/L (Tokyo)	105.4	Regular
KEROSENE	Yen/L (Tokyo)	59.1	
DIESEL OIL			
A HEAVY OIL			
LPG	Yen/m3 (Tokyo)	574.4	
RESIDENTIAL USERS (LIGHTING)			

## Original Table (Quarterly) of Japan in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	14,271	-	-
	FEB.	-	13,689	-	-
	MAR.	-	14,106	-	-
	<b>1st quarter</b>	N.A	42,066	N.A	N.A
	APR.	-	13,173	-	-
	MAY.	-	13,773	-	-
	JUN.	-	13,877	-	-
	<b>2nd quarter</b>	-	40,823	-	N.A
	JUL.	-	15,205	-	-
	AUG.	-	15,224	-	-
	SEP.	-	13,906	-	-
	<b>3rd quarter</b>	-	44,335	-	N.A
	OCT.	-	12,834	-	-
	NOV.	-	12,527	-	-
	DEC.	-	14,224	-	-
	<b>4th quarter</b>	-	39,585	-	N.A
		-	166,809	-	N.A

Oil		Unit: 1,000kL						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	76	23,134	-	-119	3,688	817	-99
	FEB.	74	22,394	-	452	3,376	872	-594
	MAR.	78	22,916	-	-56	2,934	1,158	-521
	<b>1st quarter</b>	228	68,444	-	278	9,998	2,847	-1,213
	APR.	64	21,396	-	488	3,591	1,056	1,579
	MAY.	63	19,791	-	45	3,281	1,083	563
	JUN.	64	21,773	-	3,021	2,934	1,121	241
	<b>2nd quarter</b>	191	62,960	-	3,554	9,806	3,261	2,383
	JUL.	65	19,543	-	-218	2,716	1,222	-1,268
	AUG.	64	19,217	-	-595	2,585	1,303	2,381
	SEP.	60	18,673	-	54	2,934	1,418	454
	<b>3rd quarter</b>	189	57,433	-	-759	8,235	3,943	1,567
	OCT.	65	18,387	-	-1,703	3,494	1,314	-83
	NOV.	69	17,750	-	-2,342	3,042	861	-72
	DEC.	79	23,522	-	1,777	2,934	997	-1,251
	<b>4th quarter</b>	213	59,659	-	-2,268	9,470	3,172	-1,405
		821	248,496	-	804	37,509	13,222	1,331

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

Natural Gas ( or LNG)		Unit: 1,000m <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	309,587	6,794,200	-	-214
	FEB.	275,541	6,277,600	-	137
	MAR.	290,696	6,767,600	-	183
	<b>1st quarter</b>	875,824	19,839,400	-	106
	APR.	229,880	5,982,200	-	-230
	MAY.	222,042	5,979,400	-	871
	JUN.	213,842	6,018,600	-	1,260
	<b>2nd quarter</b>	665,764	17,980,200	-	1,901
	JUL.	203,486	6,792,800	-	487
	AUG.	200,484	6,249,600	-	88
	SEP.	187,475	6,295,800	-	-173
	<b>3rd quarter</b>	591,445	17,980,200	-	402
	OCT.	204,588	4,891,600	-	140
	NOV.	229,784	4,258,800	-	482
	DEC.	276,103	5,523,000	-	-290
	<b>4th quarter</b>	710,475	14,673,400	-	332
	2,843,508	70,473,200	-	2,741	

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	68,109	45,216	3,802	18,803	288	-	-
	FEB.	61,331	40,931	3,805	16,336	259	-	-
	MAR.	66,375	42,843	4,937	18,312	283	-	-
	<b>1st quarter</b>	195,816	128,990	12,544	53,451	831	-	-
	APR.	70,749	43,696	9,809	16,978	266	-	-
	MAY.	71,302	45,265	10,864	14,885	289	-	-
	JUN.	74,341	49,164	9,461	15,444	273	-	-
	<b>2nd quarter</b>	216,393	138,125	30,133	47,307	827	-	-
	JUL.	78,621	49,279	10,342	18,731	270	-	-
	AUG.	84,772	52,077	10,891	21,537	267	-	-
	SEP.	80,508	51,334	8,340	20,566	268	-	-
	<b>3rd quarter</b>	243,901	152,690	29,572	60,834	805	-	-
	OCT.	72,022	39,120	6,926	25,738	237	-	-
	NOV.	71,839	38,986	5,538	27,060	255	-	-
	DEC.	79,344	44,891	5,281	28,885	287	-	-
	<b>4th quarter</b>	223,205	122,997	17,746	81,684	779	-	-
	879,315	542,802	89,996	243,276	3,242	-	-	

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 2001**

	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
<b>1 Indigenous Production</b>	1,632	-	-	-	-	-	-	-	-
<b>2 Import</b>	40,556	-	119,585	24,373	264	14,468	44	698	928
<b>3 Export</b>	-	-	-	-39,892	-2,027	-6,190	-5,190	-2,366	-12,567
<b>4 International Marine Bunkers</b>	-	-	-	-6,776	-	-	-	-	-
<b>5 Stock Changes</b>	85	-	-154	38	28	-270	-106	275	188
<b>6 Total Primary Energy Supply</b>	42,273	-	119,431	-22,256	-1,735	8,008	-5,252	-1,393	-11,451
<b>7 Public Electricity</b>	-23,920	-	-	-6,501	-	-	-	-	-41
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-176	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-119,635	119,712	9,591	19,655	8,574	9,833	30,415
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	1,152	-	204	-2,017	5	525	-685	-405	-601
<b>14 Total Final Energy Consumption</b>	19,506	-	-	88,762	7,861	28,188	2,638	8,035	18,322
<b>15 Industry Sector</b>	18,815	-	-	39,050	55	28,188	1	368	876
<b>16 Transport Sector</b>	-	-	-	30,122	7,456	-	2,098	17	13,197
<b>17 Other Sector</b>	690	-	-	16,751	350	-	538	7,649	4,249
<b>18 Agriculture</b>	-	-	-	3,640	280	-	-	494	2,620
<b>19 Residential &amp; Commercial</b>	690	-	-	13,111	70	-	538	7,155	1,629
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	2,839	-	-	-	-	-

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

Energy Balance Table of Republic of Korea in 2001 (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
-	-	-	-	-	-	357	29,223	-	2,456	-	-	33,667
3,337	4,600	-	34	18,912	-	-	-	-	-	-	-	203,426
-10,020	-471	-	-1,062	-	-	-	-	-	-	-	-	-39,892
-6,776	-	-	-	-	-	-	-	-	-	-	-	-6,776
-91	51	-	-36	-172	-	-	-	-	-	-	-	-203
-13,550	4,181	-	-1,065	18,740	-	357	29,223	-	2,456	-	-	190,224
-6,387	-	-	-73	-6,186	-198	-357	-29,223	-	-	24,529	1,201	-40,654
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-174	-	-2	-12,050	12,050	-	-	-	-	-	-	-177
33,707	3,938	-	3,999	-	-	-	-	-	-	-	-	77
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-471	-110	-	-	-	-	-2,364	-51	-2,997
-1,033	124	-	54	-32	220	-	-	-	0	0	0	-473
12,738	8,069	-	2,913	-	11,961	-	-	-	2,456	22,165	1,150	146,000
7,959	1,602	-	-	-	3,230	-	-	-	2,215	11,163	-	74,474
3,604	3,749	-	1	-	7	-	-	-	-	194	-	30,323
1,174	2,718	-	73	-	8,724	-	-	-	241	10,807	1,150	38,364
243	3	-	0	-	20	-	-	-	-	515	-	4,175
931	2,715	-	73	-	8,704	-	-	-	241	9,815	1,150	33,711
-	-	-	-	-	-	-	-	-	-	477	-	477
-	-	-	2,839	-	-	-	-	-	-	-	-	2,839

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	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	38,321	45,403	50,062	52,892	60,428	66,039	74,951	79,470	89,356
Indigenous Production	9,215	11,249	12,618	14,547	18,322	21,312	21,143	21,621	21,690
Import	29,598	36,539	39,105	43,008	49,050	51,424	59,143	65,110	73,284
Export	-10	-2,232	-3,306	-3,567	-3,699	-4,499	-4,237	-4,783	-3,797
Final Energy Consumption	35,685	37,329	41,237	43,496	47,585	52,239	57,790	62,817	71,863
Industry	15,567	16,408	17,373	17,822	19,303	21,902	25,027	27,416	32,028
Transport	4,672	5,160	5,709	6,375	7,318	8,815	10,214	11,659	13,468
Residential & Commercial	12,956	13,972	16,205	17,403	18,580	19,042	19,857	20,721	22,783
Agriculture	17	729	809	846	1,133	1,205	1,400	1,555	1,729
Coal, Coal Products									
Primary Energy Supply	12,539	15,649	19,618	21,542	21,670	23,115	26,302	24,836	23,226
Indigenous Production	8,139	8,679	9,339	9,851	10,598	10,607	10,386	8,886	7,360
Import	4,689	6,842	8,164	12,354	12,914	13,172	15,283	15,605	14,965
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-734	-1,098	-2,908	-3,878	-4,220	-3,667	-4,367	-4,157	-4,304
Power Generation	-734	-1,098	-2,908	-3,878	-4,220	-3,667	-4,367	-4,157	-4,304
Final Energy Consumption	11,805	14,569	15,965	17,043	17,943	18,789	19,537	19,111	18,862
Industry	3,471	5,928	6,092	6,166	6,460	7,614	8,849	9,750	10,266
Transport	2	-	-	-	-	-	-	-	-
Residential & Commercial	8,332	8,640	9,874	10,877	11,483	11,175	10,688	9,360	8,596
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	22,901	26,841	27,787	27,596	32,014	30,080	36,330	41,247	42,911
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	22,901	26,841	27,787	27,596	32,014	30,080	36,330	41,247	42,911
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-22,534	-26,529	-28,100	-27,988	-29,185	-29,350	-35,682	-41,290	-42,795
Petroleum Refineries	-22,534	-26,529	-28,100	-27,988	-29,185	-29,350	-35,682	-41,290	-42,795
Petroleum Products									
Primary Energy Supply	1,805	343	-621	-942	-1,043	246	-884	-1,716	6,169
Import	2,008	2,855	3,155	3,057	3,985	6,207	5,120	5,906	12,732
Export	-10	-2,232	-3,306	-3,567	-3,699	-4,499	-4,237	-4,783	-3,797
Transformation Sector	18,038	18,947	21,642	22,821	25,166	26,759	31,802	36,742	37,069
Power Generation	-6,639	-7,275	-5,672	-4,249	-3,035	-1,130	-2,638	-3,226	-4,425
Petroleum Refineries	24,692	26,269	27,367	27,155	28,317	27,973	34,529	40,117	41,745
Final Energy Consumption	21,052	19,061	21,179	22,015	24,680	27,742	31,494	36,010	43,899
Industry	10,143	8,082	8,675	8,883	9,704	10,650	12,015	13,135	16,581
Transport	4,636	5,116	5,657	6,313	7,242	8,741	10,133	11,576	13,381
Residential & Commercial	3,800	4,112	4,942	4,975	5,414	5,943	6,764	8,403	10,478
Agriculture	-	693	764	794	1,068	1,133	1,288	1,429	1,604
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	64	1,893	2,445	2,367	2,721
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	137	1,965	2,410	2,353	2,677
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	13	34	46	75	55	-1,714	-2,141	-1,810	-1,811
Power Generation	-	-	-	-	-52	-1,795	-2,226	-1,950	-2,034
Final Energy Consumption	13	34	46	75	119	179	305	558	910
Industry	-	-	1	13	36	68	99	143	211
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	13	34	45	62	84	112	206	415	699
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	3,203	4,201	4,627	4,989	5,564	6,363	7,350	8,125	9,259
Thermal	2,733	3,196	3,407	3,217	2,783	2,523	3,594	3,659	4,164
Hydro	171	234	206	332	346	460	307	392	547
Nuclear	299	771	1,014	1,440	2,435	3,381	3,449	4,073	4,548
Final Energy Consumption	2,815	3,665	4,046	4,363	4,843	5,519	6,391	7,069	8,117
Industry	1,954	2,399	2,606	2,760	3,103	3,570	4,064	4,388	4,970
Transport	34	44	52	62	76	74	80	83	87
Residential & Commercial	810	1,186	1,344	1,489	1,599	1,802	2,136	2,472	2,935
Agriculture	17	36	45	52	65	72	112	126	125

Major Energy Indicators of Republic of Korea (Continued)

										ktoe		
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
99,249	113,418	126,401	133,453	146,211	159,950	171,467	158,496	174,668	187,605	190,224	199,445	
21,547	20,267	19,705	18,817	20,384	21,829	22,481	25,762	30,981	32,783	33,667	35,839	
90,926	110,444	126,121	134,726	147,617	167,029	188,303	178,960	190,851	204,101	203,426	200,488	
-9,897	-13,080	-14,616	-13,099	-16,856	-21,552	-31,318	-39,946	-40,244	-41,398	-39,892	-32,081	
80,361	90,167	99,131	106,007	115,696	124,807	132,492	124,565	136,465	143,185	146,000	153,250	
38,020	44,379	48,657	52,324	54,864	58,844	62,436	65,624	70,206	73,922	74,474	78,238	
15,353	17,609	20,069	22,673	25,798	28,310	30,482	24,881	27,201	29,406	30,323	32,081	
22,767	23,616	25,911	26,095	29,681	31,576	32,946	27,342	32,495	32,931	33,711	35,183	
1,911	2,181	2,442	2,828	3,078	3,305	3,626	3,178	3,670	3,888	4,175	4,131	
24,694	24,233	26,841	27,567	29,598	31,244	32,811	33,791	34,291	40,290	42,273	44,369	
6,437	5,117	4,037	3,180	2,445	2,117	1,929	1,864	1,794	1,774	1,632	1,418	
18,355	18,825	22,512	24,668	27,509	29,304	31,208	32,155	32,689	38,531	40,556	42,740	
-	-	-	-	-	-	-	-	-	-	-	-	
-4,389	-4,683	-6,483	-8,560	-9,816	-12,807	-15,088	-16,994	-18,674	-21,911	-23,920	-26,093	
-4,389	-4,683	-6,483	-8,560	-9,816	-12,807	-15,088	-16,994	-18,674	-21,911	-23,920	-26,093	
18,918	17,753	18,105	16,786	16,870	17,782	17,971	17,244	17,573	18,855	19,506	20,548	
12,107	12,718	14,561	14,633	15,432	16,785	17,232	16,576	16,953	18,173	18,815	19,885	
-	-	-	-	-	-	-	-	-	-	-	-	
6,811	5,035	3,545	2,153	1,439	997	740	668	620	682	690	662	
-	-	-	-	-	-	-	-	-	-	-	-	
55,583	70,800	77,723	78,458	87,871	100,331	121,527	114,212	121,656	124,320	119,431	110,573	
-	-	-	-	-	-	-	-	-	-	-	-	
55,583	70,905	78,005	79,835	86,904	100,459	121,539	113,980	121,633	124,396	119,585	110,070	
-	-	-	-	-	-	-	-	-	-	-	-	
-57,460	-71,078	-75,695	-78,047	-87,735	-100,309	-121,339	-120,436	-121,446	-123,890	-119,635	-109,487	
-57,460	-71,078	-75,695	-78,047	-87,735	-100,309	-121,339	-120,436	-121,446	-123,890	-119,635	-109,487	
711	-823	992	4,925	2,511	-2,270	-16,753	-25,899	-25,631	-25,008	-22,256	-10,722	
13,761	16,706	20,394	23,288	24,944	26,040	21,950	20,423	21,350	24,119	24,373	27,238	
-9,897	-13,080	-14,616	-13,099	-16,856	-21,552	-31,318	-39,946	-40,244	-41,398	-39,892	-32,081	
49,637	61,137	66,224	68,860	77,543	88,248	109,693	110,714	116,630	116,117	113,035	106,596	
-6,177	-7,754	-7,373	-8,403	-9,355	-9,539	-8,624	-3,459	-3,810	-6,054	-6,501	-5,786	
56,241	69,489	74,404	78,200	88,066	98,871	119,037	114,557	120,857	122,466	119,712	112,538	
51,000	60,363	66,956	73,266	79,108	84,278	89,061	82,239	88,202	88,947	88,762	91,496	
20,178	25,444	27,292	30,004	30,653	32,135	34,209	38,404	39,408	39,771	39,050	40,531	
15,259	17,508	19,960	22,549	25,659	28,165	30,331	24,745	27,052	29,231	30,122	31,814	
11,744	13,295	15,400	16,049	18,103	18,623	18,681	13,133	15,983	13,901	13,111	12,513	
1,758	1,995	2,251	2,577	2,787	2,974	3,266	2,832	3,277	3,420	3,640	3,585	
3,152	4,058	5,177	6,866	8,292	10,933	13,330	12,493	15,164	16,995	18,740	20,805	
-	-	-	-	-	-	-	-	-	-	-	-	
3,227	4,008	5,211	6,936	8,260	11,226	13,606	12,402	15,178	17,056	18,912	20,440	
-	-	-	-	-	-	-	-	-	-	-	-	
-1,766	-2,126	-2,361	-3,252	-3,338	-4,774	-6,098	-4,935	-5,703	-5,981	-6,967	-8,199	
-2,106	-2,603	-2,946	-3,969	-4,231	-5,565	-6,466	-4,902	-5,770	-5,460	-6,385	-7,821	
1,387	1,997	2,725	3,651	5,034	6,243	7,284	7,583	9,461	11,536	11,961	13,110	
282	339	414	540	776	1,076	1,346	1,630	2,276	3,153	3,230	3,569	
-	-	-	-	-	-	-	-	-	-	7	72	
1,105	1,658	2,311	3,111	4,258	5,167	5,938	5,952	7,184	8,372	8,704	9,453	
-	0	0	0	0	0	0	0	1	11	20	17	
10,201	11,263	12,421	14,189	15,881	17,672	19,302	18,516	20,582	22,910	24,529	26,357	
4,924	5,983	6,905	8,793	9,645	10,868	12,210	10,278	11,197	13,057	14,529	15,657	
434	418	517	352	471	447	463	525	522	482	357	457	
4,843	4,862	5,000	5,044	5,764	6,357	6,629	7,713	8,864	9,371	9,643	10,243	
8,976	9,911	10,985	11,843	14,041	15,692	17,267	16,638	18,422	20,600	22,165	23,947	
5,453	5,878	6,390	7,147	8,004	8,848	9,650	9,013	10,001	10,918	11,163	11,894	
94	101	108	124	138	145	151	136	149	175	194	195	
3,027	3,485	4,296	4,321	5,241	5,978	6,679	6,728	7,470	8,636	9,815	10,765	
153	186	191	251	290	332	359	346	393	456	515	529	

## Major Economic Indicators of Republic of Korea

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	38.12	39.91	40.41	40.81	41.18	41.58	41.98	42.38
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	149.08	188.43	203.97	217.18	240.99	267.46	295.44	313.41
Real Term (Billions of 1995 Price and 1995 PPP)	157.25	198.77	215.16	229.09	254.21	282.14	311.65	330.60
Nominal (Billions of Current USD)	62.21	82.32	90.58	93.46	107.62	135.18	180.61	220.71
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	3,910	4,721	5,048	5,322	5,852	6,433	7,038	7,395
Real Term (1995 Price and 1995 PPP)	4,125	4,980	5,325	5,614	6,173	6,786	7,425	7,801
Nominal (Current USD)	1,632	2,063	2,242	2,290	2,613	3,252	4,303	5,208
Nominal GDP & its Components (Billions of Current KRW) *1								
Gross Domestic Product	37,789	63,858	73,004	81,312	94,862	111,198	132,112	148,197
Household Final Consumption Expenditure, etc.	23,961	38,041	42,384	46,738	51,396	57,449	66,078	77,132
General Government Final Consumption Expenditure	4,428	6,976	7,392	8,383	9,688	11,000	12,877	15,588
Gross Fixed Capital Formation	12,230	18,944	21,381	23,435	26,976	32,600	39,451	47,673
Stock Change	-162	-340	794	963	611	982	1,965	2,554
Exports of Goods and Services	12,373	21,539	24,969	26,744	34,825	43,972	49,853	47,556
Imports of Goods and Services	15,335	22,234	25,132	26,135	29,745	35,726	39,972	44,295
Real GDP & its Components (Billions of 1995 KRW) *1								
Gross Domestic Product	114,978	145,331	157,318	167,502	185,869	206,287	227,864	241,726
Household Final Consumption Expenditure, etc.	67,760	82,542	88,968	95,054	102,878	110,553	119,919	131,991
General Government Final Consumption Expenditure	17,892	19,435	19,659	20,668	22,374	23,761	25,617	27,792
Gross Fixed Capital Formation	30,262	37,991	41,799	43,607	48,279	56,483	64,170	74,302
Stock Change	183	127	1,637	1,304	838	1,037	2,899	3,719
Exports of Goods and Services	20,386	28,975	31,515	32,853	41,713	51,184	57,448	54,975
Imports of Goods and Services	21,140	25,860	27,902	27,928	33,147	39,747	45,194	52,931
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	12.7	13.3	12.1	11.9	11.3	9.7	9.5	8.9
Industry	34.4	35.9	37.4	37.1	38.3	40.1	40.3	40.4
Services, etc.	53.0	50.9	50.5	51.0	50.4	50.2	50.2	50.7
Industrial Production Index (2000=100) *2	14.3	19.5	22.5	23.5	28.4	33.8	38.3	39.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	17.512	24.446	29.245	30.282	34.715	47.281	60.696	62.377
Imports, c.i.f.	22.292	26.192	30.631	31.136	31.585	41.019	51.811	61.465
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-4.613	-1.849	-1.089	-0.020	4.299	7.529	11.283	4.361
Current Account	-5.312	-1.524	-1.293	-0.795	4.709	10.058	14.505	5.361
Overall Balance	0.184	-0.124	0.385	0.211	0.034	2.100	9.327	3.639
Foreign Exchange Rate (KRW/USD) *1	607.43	775.75	805.98	870.02	881.45	822.57	731.47	671.46
Purchasing Power Parity (KRW/International Dollar) *1	406.58	450.29	457.20	461.80	476.36	492.73	515.83	528.04
Price Indices								
GDP Deflator (1995=100) *3	32.9	43.9	46.4	48.5	51.0	53.9	58.0	61.3
Producer Price Index (2000=100)*2	51.7	65.2	65.7	66.3	65.3	65.6	67.4	68.4
Consumer Price Index (2000=100)*2	33.2	44.6	45.7	46.8	48.1	49.6	53.1	56.1
Growth Rate (%) *3								
Real GDP	-2.09	10.70	8.25	6.47	10.97	10.99	10.46	6.08
Population	1.57	1.49	1.24	0.99	0.93	0.95	0.96	0.96
Price								
Producer Price Index	38.9	0.2	0.7	0.9	-1.5	0.5	2.7	1.5
Consumer Price Index	28.7	3.4	2.3	2.5	2.8	3.0	7.1	5.7

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"

: KRW shows Won, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Republic of Korea (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
42.87	43.27	43.66	44.06	44.45	45.09	45.53	45.95	46.29	46.62	47.01	47.34	47.64
341.55	373.07	393.35	414.96	449.19	489.26	522.28	548.45	511.76	567.52	620.45	639.70	680.29
360.29	393.53	414.93	437.72	473.83	516.10	550.93	578.54	539.84	598.65	654.48	674.79	717.61
252.62	295.23	314.74	345.72	402.53	489.26	520.20	476.49	317.08	406.07	461.52	427.23	476.69
7,967	8,622	9,009	9,419	10,105	10,850	11,472	11,935	11,056	12,174	13,199	13,512	14,280
8,404	9,095	9,503	9,936	10,659	11,445	12,102	12,590	11,663	12,842	13,923	14,253	15,063
5,893	6,823	7,208	7,847	9,055	10,850	11,427	10,369	6,850	8,711	9,818	9,024	10,006
178,797	216,511	245,700	277,497	323,407	377,350	418,479	453,276	444,367	482,744	521,959	551,558	596,381
93,505	113,226	130,028	148,264	175,970	206,406	233,644	254,986	242,834	271,137	299,122	326,210	358,835
18,702	22,691	26,506	29,250	32,857	36,434	42,477	45,660	48,782	50,089	52,480	57,180	62,968
66,689	84,507	90,809	100,354	116,436	138,439	153,976	159,110	132,308	134,152	148,203	148,717	159,482
736	1,773	931	-1,804	1,636	1,826	4,793	-3,933	-38,253	-5,381	-1,034	-506	-4,159
52,020	59,226	67,942	76,423	89,986	113,972	123,468	157,413	220,961	204,378	233,792	233,007	238,634
54,101	65,741	71,600	76,278	93,668	119,534	140,659	162,031	161,144	171,278	217,845	220,442	230,056
263,431	287,738	303,384	320,044	346,448	377,350	402,821	423,007	394,711	437,710	478,533	493,380	524,689
144,655	156,234	164,824	174,058	188,321	206,407	221,006	228,738	201,869	224,152	241,931	253,371	270,561
29,861	32,022	33,914	35,468	36,141	36,433	39,412	39,984	39,819	40,328	40,383	40,890	42,083
93,529	105,971	105,225	111,832	123,751	138,439	148,580	145,295	114,564	118,773	132,337	129,927	136,220
234	1,944	1,690	-1,768	2,171	1,826	3,914	-4,218	-27,626	-6,168	-7,119	-7,727	-8,712
57,225	63,619	70,798	78,800	91,474	113,972	126,750	153,931	175,641	203,444	245,133	246,733	283,418
60,276	71,872	75,651	80,350	97,689	119,534	136,562	140,905	109,798	141,443	169,716	164,594	191,513
7.7	7.3	7.5	6.8	6.3	6.2	6.0	6.0	6.0	5.7	5.3	5.2	4.7
42.0	42.7	41.9	42.3	42.7	43.2	43.3	43.5	43.1	43.8	44.9	44.8	44.7
50.3	50.1	50.5	50.9	51.0	50.6	50.7	50.6	50.9	50.5	49.8	50.0	50.6
43.0	47.1	49.9	52.1	57.9	64.9	70.3	73.9	68.9	85.3	100.0	100.4	108.7
65.016	71.870	76.632	82.236	96.013	125.058	129.715	136.164	132.313	143.686	172.268	150.439	162.470
69.844	81.525	81.775	83.800	102.348	135.119	150.339	144.616	93.282	119.752	160.481	141.098	152.126
-2.450	-6.803	-1.755	2.319	-2.860	-4.444	-14.965	-3.179	41.627	28.371	16.872	13.492	14.180
-2.003	-8.317	-3.944	0.990	-3.867	-8.507	-23.006	-8.167	40.365	24.477	12.241	8.239	6.092
-1.208	-1.147	3.724	3.009	4.614	7.039	1.416	-22.979	25.930	33.260	23.790	13.278	11.770
707.76	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
563.69	602.95	633.27	662.07	698.02	731.16	744.67	751.76	770.66	747.73	729.76	732.34	738.72
67.9	75.2	81.0	86.7	93.3	100.0	103.9	107.2	112.6	110.3	109.1	111.8	113.7
71.3	74.6	79.2	77.4	79.5	83.2	85.9	89.2	100.1	98.0	100.0	99.5	99.2
60.9	66.6	70.8	74.2	78.8	82.3	86.4	90.2	97.0	97.8	100.0	104.1	106.9
8.98	9.23	5.44	5.49	8.25	8.92	6.75	5.01	-6.69	10.89	9.33	3.10	6.35
1.15	0.93	0.91	0.90	0.90	1.44	0.96	0.94	0.72	0.71	0.84	0.71	0.63
4.2	4.7	6.2	-2.3	2.7	4.7	3.2	3.8	12.2	-2.1	2.0	-0.5	-0.3
8.6	9.3	6.3	4.8	6.2	4.4	5.0	4.4	7.5	0.8	2.2	4.1	2.7

## Original Table (Energy Demand and Supply) of Republic of Korea in 2002

Year:2002

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	3,318.00	thou.ton	0.4275	toe/ton	1,418.45	thou.toe
ANTHRACITE	3,318.00	thou.ton	0.4275	toe/ton	1,418.45	thou.toe
HYDRO POWER	5,309.00	GWh	0.0860	toe/GWh	456.57	thou.toe
NUCLEAR POWER	119,102.00	GWh	0.2606	toe/GWh	31,038.70	thou.toe
OTHERS	2,925.43	thou.toe	1.0000	toe/toe	2,925.43	thou.toe
TOTAL PRODUCTION					35,839.15	thou.toe
<b>OPENING STOCKS</b>						
COAL	10,576.00	thou.ton	0.4392	toe/ton	4,644.79	thou.toe
ANTHRACITE	10,576.00	thou.ton	0.4392	toe/ton	4,644.79	thou.toe
CRUDE OIL AND NGL/CONDENSATE	12,645.00	thou.bbl	0.1392	toe/bbl	1,759.60	thou.toe
CRUDE OIL	12,645.00	thou.bbl	0.1392	toe/bbl	1,759.60	thou.toe
LPG	2,523.13	thou.bbl	0.0971	toe/bbl	244.89	thou.toe
NAPHTHA	9,160.01	thou.bbl	0.1208	toe/bbl	1,106.77	thou.toe
MOGAS	3,482.54	thou.bbl	0.1254	toe/bbl	436.56	thou.toe
JET FUEL	3,184.56	thou.bbl	0.1314	toe/bbl	418.45	thou.toe
ATF/AVGAS	1.21	thou.bbl	0.1314	toe/bbl	0.16	thou.toe
KEROSENE	8,670.01	thou.bbl	0.1314	toe/bbl	1,139.23	thou.toe
DIESEL OIL	8,903.50	thou.bbl	0.1390	toe/bbl	1,237.15	thou.toe
FUEL OIL	12,273.19	thou.bbl	0.1494	toe/bbl	1,833.45	thou.toe
OTHER PETROLEUM PRODUCTS	1,157.86	thou.bbl	0.1364	toe/bbl	157.98	thou.toe
NATURAL GAS AND LNG	737.98	thou.ton	1.1700	toe/ton	863.43	thou.toe
LNG	737.98	thou.ton	1.1700	toe/ton	863.43	thou.toe
TOTAL OPENING STOCKS					13,842.47	thou.toe
<b>CLOSING STOCKS</b>						
COAL	10,101.00	thou.ton	0.4391	toe/ton	4,434.89	thou.toe
ANTHRACITE	10,101.00	thou.ton	0.4391	toe/ton	4,434.89	thou.toe
CRUDE OIL AND NGL/CONDENSATE	9,032.00	thou.bbl	0.1392	toe/bbl	1,256.84	thou.toe
CRUDE OIL	9,032.00	thou.bbl	0.1392	toe/bbl	1,256.84	thou.toe
LPG	4,790.34	thou.bbl	0.0973	toe/bbl	465.92	thou.toe
NAPHTHA	7,622.65	thou.bbl	0.1208	toe/bbl	921.02	thou.toe
MOGAS	3,408.92	thou.bbl	0.1254	toe/bbl	427.33	thou.toe
JET FUEL	2,329.12	thou.bbl	0.1314	toe/bbl	306.04	thou.toe
ATF/AVGAS	0.52	thou.bbl	0.1314	toe/bbl	0.07	thou.toe
KEROSENE	4,918.97	thou.bbl	0.1314	toe/bbl	646.35	thou.toe
DIESEL OIL	7,106.17	thou.bbl	0.1390	toe/bbl	987.41	thou.toe
FUEL OIL	11,606.52	thou.bbl	0.1494	toe/bbl	1,733.51	thou.toe
OTHER PETROLEUM PRODUCTS	1,472.84	thou.bbl	0.1406	toe/bbl	207.11	thou.toe
NATURAL GAS AND LNG	425.50	thou.ton	1.1700	toe/ton	497.84	thou.toe
LNG	425.50	thou.ton	1.1700	toe/ton	497.84	thou.toe
TOTAL CLOSING STOCKS					11,884.33	thou.toe
<b>STOCK CHANGE</b>						
COAL	475.00	thou.ton	0.4419	toe/ton	209.90	thou.toe
ANTHRACITE	475.00	thou.ton	0.4419	toe/ton	209.90	thou.toe
CRUDE OIL AND NGL/CONDENSATE	3,613.00	thou.bbl	0.1392	toe/bbl	502.76	thou.toe
CRUDE OIL	3,613.00	thou.bbl	0.1392	toe/bbl	502.76	thou.toe
LPG	-2,267.21	thou.bbl	0.0975	toe/bbl	-221.03	thou.toe
NAPHTHA	1,537.37	thou.bbl	0.1208	toe/bbl	185.76	thou.toe
MOGAS	73.62	thou.bbl	0.1254	toe/bbl	9.23	thou.toe
JET FUEL	855.45	thou.bbl	0.1314	toe/bbl	112.41	thou.toe
ATF/AVGAS	0.68	thou.bbl	0.1314	toe/bbl	0.09	thou.toe
KEROSENE	3,751.05	thou.bbl	0.1314	toe/bbl	492.88	thou.toe
DIESEL OIL	1,797.33	thou.bbl	0.1390	toe/bbl	249.74	thou.toe
FUEL OIL	666.67	thou.bbl	0.1499	toe/bbl	99.93	thou.toe
OTHER PETROLEUM PRODUCTS	-314.98	thou.bbl	0.1560	toe/bbl	-49.13	thou.toe
NATURAL GAS AND LNG	312.48	thou.ton	1.1700	toe/ton	365.60	thou.toe
LNG	312.48	thou.ton	1.1700	toe/ton	365.60	thou.toe
TOTAL STOCK CHANGE					1,958.14	thou.toe
<b>IMPORTS</b>						
COAL	68,518.83	thou.ton	0.6238	toe/ton	42,740.21	thou.toe
HARD COAL	64,640.00	thou.ton	0.6270	toe/ton	40,529.28	thou.toe
STEAM COAL	46,980.00	thou.ton	0.6270	toe/ton	29,456.46	thou.toe
COKING COAL	17,660.00	thou.ton	0.6270	toe/ton	11,072.82	thou.toe
ANTHRACITE	3,878.83	thou.ton	0.5700	toe/ton	2,210.93	thou.toe
CRUDE OIL AND NGL/CONDENSATE	790,992.00	thou.bbl	0.1392	toe/bbl	110,069.83	thou.toe
CRUDE OIL	790,992.00	thou.bbl	0.1392	toe/bbl	110,069.83	thou.toe
LPG	56,215.56	thou.bbl	0.0957	toe/bbl	5,377.70	thou.toe
NAPHTHA	121,911.94	thou.bbl	0.1208	toe/bbl	14,730.22	thou.toe
MOGAS	4,031.91	thou.bbl	0.1254	toe/bbl	505.43	thou.toe
JET FUEL	2,781.39	thou.bbl	0.1314	toe/bbl	365.47	thou.toe
ATF/AVGAS	0.06	thou.bbl	0.1314	toe/bbl	0.01	thou.toe
KEROSENE	6,916.76	thou.bbl	0.1314	toe/bbl	908.86	thou.toe
DIESEL OIL	12,928.28	thou.bbl	0.1390	toe/bbl	1,796.39	thou.toe
FUEL OIL	23,699.58	thou.bbl	0.1495	toe/bbl	3,543.42	thou.toe
OTHER PETROLEUM PRODUCTS	71.11	thou.bbl	0.1493	toe/bbl	10.61	thou.toe
NATURAL GAS AND LNG	17,469.70	thou.ton	1.1700	toe/ton	20,439.55	thou.toe
LNG	17,469.70	thou.ton	1.1700	toe/ton	20,439.55	thou.toe
TOTAL IMPORTS					200,487.71	thou.toe
<b>EXPORTS</b>						
LPG	2,882.39	thou.bbl	0.0970	toe/bbl	279.58	thou.toe

Original Table (Energy Demand and Supply) of Republic of Korea in 2002 (Continued)

Year:2002

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NAPHTHA	44,942.95	thou.bbl	0.1208	toe/bbl	5,430.31	thou.toe
MOGAS	15,525.50	thou.bbl	0.1254	toe/bbl	1,946.24	thou.toe
JET FUEL	42,006.43	thou.bbl	0.1314	toe/bbl	5,519.61	thou.toe
KEROSENE	10,204.91	thou.bbl	0.1314	toe/bbl	1,340.92	thou.toe
DIESEL OIL	76,234.73	thou.bbl	0.1390	toe/bbl	10,592.87	thou.toe
FUEL OIL	35,025.49	thou.bbl	0.1495	toe/bbl	5,237.12	thou.toe
OTHER PETROLEUM PRODUCTS	12,304.58	thou.bbl	0.1410	toe/bbl	1,734.71	thou.toe
TOTAL EXPORTS					32,081.35	thou.toe
INTERNATIONAL MARINE BUNKERS					6,758.96	thou.toe
TOTAL PRIMARY ENERGY SUPPLY					199,444.70	thou.toe
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	786,805.00	thou.bbl	0.1392	toe/bbl	109,487.19	thou.toe
CRUDE OIL	786,805.00	thou.bbl	0.1392	toe/bbl	109,487.19	thou.toe
<b>GAS PROCESSING</b>						
LPG	1,675.36	thou.bbl	0.0923	toe/bbl	154.62	thou.toe
OTHER PETROLEUM PRODUCTS	10.18	thou.bbl	0.1388	toe/bbl	1.41	thou.toe
NATURAL GAS AND LNG	11,194.10	thou.ton	1.1700	toe/ton	13,097.10	thou.toe
LNG	11,194.10	thou.ton	1.1700	toe/ton	13,097.10	thou.toe
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	42,700.94	thou.ton	0.5894	toe/ton	25,169.66	thou.toe
STEAM COAL	40,143.00	thou.ton	0.6270	toe/ton	25,169.66	thou.toe
ANTHRACITE	2,557.94	thou.ton	0.3610	toe/ton	923.41	thou.toe
LPG	0.60	thou.bbl	0.0921	toe/bbl	0.06	thou.toe
DIESEL OIL	688.71	thou.bbl	0.1390	toe/bbl	95.70	thou.toe
FUEL OIL	37,107.90	thou.bbl	0.1495	toe/bbl	5,548.48	thou.toe
OTHER PETROLEUM PRODUCTS	1,078.72	thou.bbl	0.1314	toe/bbl	141.74	thou.toe
NATURAL GAS AND LNG	6,508.98	thou.ton	1.1700	toe/ton	7,615.50	thou.toe
LNG	6,508.98	thou.ton	1.1700	toe/ton	7,615.50	thou.toe
TOWN GAS	217.40	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	205.44	thou.toe
HYDRO POWER	5,309.00	GWh	0.0860	toe/GWh	456.57	thou.toe
NUCLEAR POWER	119,102.00	GWh	0.2606	toe/GWh	31,038.70	thou.toe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>GAS RECOVERING</b>						
<b>REFINING</b>						
LPG	40,507.19	thou.bbl	0.1001	toe/bbl	4,055.53	thou.toe
NAPHTHA	163,911.59	thou.bbl	0.1208	toe/bbl	19,804.90	thou.toe
MOGAS	76,943.06	thou.bbl	0.1254	toe/bbl	9,645.41	thou.toe
JET FUEL	67,731.05	thou.bbl	0.1314	toe/bbl	8,899.80	thou.toe
KEROSENE	61,646.25	thou.bbl	0.1314	toe/bbl	8,100.26	thou.toe
DIESEL OIL	207,735.72	thou.bbl	0.1390	toe/bbl	28,865.03	thou.toe
FUEL OIL	189,123.43	thou.bbl	0.1493	toe/bbl	28,240.12	thou.toe
OTHER PETROLEUM PRODUCTS	36,999.40	thou.bbl	0.1332	toe/bbl	4,927.25	thou.toe
<b>GAS PROCESSING</b>						
TOWN GAS	13,815.34	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	13,055.50	thou.toe
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	182,062.00	GWh	0.0860	toe/GWh	15,657.33	thou.toe
HYDRO POWER	5,309.00	GWh	0.0860	toe/GWh	456.57	thou.toe
NUCLEAR POWER	119,102.00	GWh	0.0860	toe/GWh	10,242.77	thou.toe
HEAT	1,282.79	thou.toe	1.0000	toe/toe	1,282.79	thou.toe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
NATURAL GAS AND LNG	65.00	thou.ton	1.1700	toe/ton	76.05	thou.toe
LNG	65.00	thou.ton	1.1700	toe/ton	76.05	thou.toe
TOWN GAS	275.45	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	260.30	thou.toe
ELECTRICITY	28,021.63	GWh	0.0860	toe/GWh	2,409.86	thou.toe
HEAT	59.40	thou.toe	1.0000	toe/toe	59.40	thou.toe
TOTAL LOSSES AND OWN USE					2,805.61	thou.toe
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	33,250.60	thou.ton	0.6180	toe/ton	20,547.66	thou.toe
HARD COAL	28,121.27	thou.ton	0.6270	toe/ton	17,632.04	thou.toe
STEAM COAL	8,024.27	thou.ton	0.6270	toe/ton	5,031.22	thou.toe
COKING COAL	20,097.00	thou.ton	0.6270	toe/ton	12,600.82	thou.toe
ANTHRACITE	5,129.33	thou.ton	0.5684	toe/ton	2,915.63	thou.toe
LPG	89,738.81	thou.bbl	0.0978	toe/bbl	8,773.28	thou.toe
NAPHTHA	245,309.18	thou.bbl	0.1208	toe/bbl	29,639.90	thou.toe
MOGAS	64,077.18	thou.bbl	0.1254	toe/bbl	8,032.57	thou.toe
JET FUEL	20,056.73	thou.bbl	0.1314	toe/bbl	2,635.44	thou.toe
ATF/AVGAS	0.68	thou.bbl	0.1314	toe/bbl	0.09	thou.toe
KEROSENE	57,385.56	thou.bbl	0.1314	toe/bbl	7,540.41	thou.toe
DIESEL OIL	137,346.35	thou.bbl	0.1390	toe/bbl	19,084.37	thou.toe
FUEL OIL	84,390.00	thou.bbl	0.1492	toe/bbl	12,591.00	thou.toe
OTHER PETROLEUM PRODUCTS	23,999.36	thou.bbl	0.1273	toe/bbl	3,053.98	thou.toe
TOWN GAS	13,873.39	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	13,110.36	thou.toe
HEAT	1,223.38	thou.toe	1.0000	toe/toe	1,223.38	thou.toe
ELECTRICITY	278,451.37	GWh	0.0860	toe/GWh	23,946.82	thou.toe
OTHERS	2,925.43	thou.toe	1.0000	toe/toe	2,925.43	thou.toe
TOTAL					153,104.69	thou.toe

Original Table (Energy Demand and Supply) of Republic of Korea in 2002 (Continued)

Year:2002

Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>AGRICULTURE</b>						
LPG	62.60	thou.bbl	0.0933	toe/bbl	5.84	thou.toe
MOGAS	2,694.24	thou.bbl	0.1254	toe/bbl	337.74	thou.toe
KEROSENE	4,188.50	thou.bbl	0.1314	toe/bbl	550.36	thou.toe
DIESEL OIL	17,737.95	thou.bbl	0.1390	toe/bbl	2,464.70	thou.toe
FUEL OIL	1,546.83	thou.bbl	0.1461	toe/bbl	225.93	thou.toe
OTHER PETROLEUM PRODUCTS	0.92	thou.bbl	0.0831	toe/bbl	0.08	thou.toe
TOWN GAS	17.88	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	16.89	thou.toe
ELECTRICITY	6,155.73	GWh	0.0860	toe/GWh	529.39	thou.toe
<b>TOTAL</b>					4,130.94	thou.toe
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	1,175.43	thou.ton	0.5635	toe/ton	662.38	thou.toe
ANTHRACITE	1,175.43	thou.ton	0.5635	toe/ton	662.38	thou.toe
LPG	30,522.82	thou.bbl	0.0924	toe/bbl	2,819.09	thou.toe
MOGAS	650.11	thou.bbl	0.1254	toe/bbl	81.50	thou.toe
JET FUEL	3,404.48	thou.bbl	0.1314	toe/bbl	447.35	thou.toe
KEROSENE	50,420.03	thou.bbl	0.1314	toe/bbl	6,625.14	thou.toe
DIESEL OIL	10,993.00	thou.bbl	0.1390	toe/bbl	1,527.48	thou.toe
FUEL OIL	5,841.33	thou.bbl	0.1489	toe/bbl	869.84	thou.toe
OTHER PETROLEUM PRODUCTS	1,520.67	thou.bbl	0.0940	toe/bbl	142.88	thou.toe
TOWN GAS	10,003.10	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	9,452.93	thou.toe
HEAT	1,223.38	thou.toe	1.0000	toe/toe	1,223.38	thou.toe
ELECTRICITY	125,172.21	GWh	0.0860	toe/GWh	10,764.81	thou.toe
OTHERS	566.09	thou.toe	1.0000	toe/toe	566.09	thou.toe
<b>TOTAL</b>					35,182.88	thou.toe
<b>OTHERS</b>						
LPG	0.00	thou.bbl	0.0924	toe/bbl	0.00	thou.toe
ELECTRICITY	6,554.56	GWh	0.0860	toe/GWh	563.69	thou.toe
<b>TOTAL</b>					563.69	thou.toe
<b>INDUSTRY</b>						
COAL	32,075.18	thou.ton	0.6200	toe/ton	19,885.28	thou.toe
HARD COAL	28,121.27	thou.ton	0.6270	toe/ton	17,632.04	thou.toe
STEAM COAL	8,024.27	thou.ton	0.6270	toe/ton	5,031.22	thou.toe
COKING COAL	20,097.00	thou.ton	0.6270	toe/ton	12,600.82	thou.toe
ANTHRACITE	3,953.91	thou.ton	0.5699	toe/ton	2,253.24	thou.toe
LPG	20,151.28	thou.bbl	0.0958	toe/bbl	1,931.03	thou.toe
NAPHTHA	245,309.18	thou.bbl	0.1208	toe/bbl	29,639.90	thou.toe
MOGAS	399.09	thou.bbl	0.1254	toe/bbl	50.03	thou.toe
JET FUEL	13.11	thou.bbl	0.1314	toe/bbl	1.72	thou.toe
KEROSENE	2,548.45	thou.bbl	0.1314	toe/bbl	334.86	thou.toe
DIESEL OIL	5,450.55	thou.bbl	0.1390	toe/bbl	757.36	thou.toe
FUEL OIL	52,352.09	thou.bbl	0.1493	toe/bbl	7,815.70	thou.toe
TOWN GAS	3,776.61	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	3,568.90	thou.toe
ELECTRICITY	138,298.03	GWh	0.0860	toe/GWh	11,893.63	thou.toe
OTHERS	2,359.34	thou.toe	1.0000	toe/toe	2,359.34	thou.toe
<b>TOTAL</b>					78,237.73	thou.toe
<b>TRANSPORT</b>						
LPG	39,002.11	thou.bbl	0.1030	toe/bbl	4,017.32	thou.toe
MOGAS	60,333.74	thou.bbl	0.1254	toe/bbl	7,563.30	thou.toe
JET FUEL	16,639.14	thou.bbl	0.1314	toe/bbl	2,186.37	thou.toe
ATF/AVGAS	0.68	thou.bbl	0.1314	toe/bbl	0.09	thou.toe
KEROSENE	228.58	thou.bbl	0.1314	toe/bbl	30.03	thou.toe
DIESEL OIL	103,164.86	thou.bbl	0.1390	toe/bbl	14,334.83	thou.toe
FUEL OIL	24,649.76	thou.bbl	0.1493	toe/bbl	3,679.54	thou.toe
OTHER PETROLEUM PRODUCTS	26.41	thou.bbl	0.0831	toe/bbl	2.19	thou.toe
TOWN GAS	75.81	mil.M <sup>3</sup>	0.9450	toe/000M <sup>3</sup>	71.64	thou.toe
ELECTRICITY	2,270.85	GWh	0.0860	toe/GWh	195.29	thou.toe
<b>TOTAL</b>					32,080.61	thou.toe
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	22,451.35	thou.bbl	0.1360	toe/bbl	3,053.98	thou.toe
<b>TOTAL NON-ENERGY USE</b>					3,053.98	thou.toe

Original Table (Energy Demand and Supply) of Republic of Korea in 2002 (Continued)

**ELECTRICITY GENERATING CAPACITY**At the time of 2002  
unit: MW

THERMAL POWER	34,209	
COAL		
OIL		
GAS		
HYDRO POWER	3,876	
NUCLEAR POWER	15,716	
GEOTHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC) /(31)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

**REFINING CAPACITY**

At the time of 2002

	Unit	
OPERATING RATE	%	
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	

**NON-COMMERCIAL ENERGY TABLE**At the time of 2002  
unit: thou.toe

	1. Waste & Fuel Wood	2.	3.	4.	5.TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION	2,925				
IMPORTS					
EXPORTS					
TOTAL	2,925				
TRANSFORMATION(INPUT)					
TRANSFORMATION(OUTPUT)					
FINAL ENERGY CONSUMPTION	566				
AGRICULTURE					
RESIDENTIAL COMMERCIAL	566				
INDUSTRY	2,359				
TRANSPORT					
TOTAL					



## Original Table (Disaggregated Final Energy Demand) of Republic of Korea in 2002

Republic of Korea	2002					
	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>I INDUSTRIAL SECTOR</b>						
<b>I.1 IRON AND STEEL (*1)</b>						
COAL	20,097.00	kt	0.6270	ktoe/kt	12,600.82	ktoe
HARD COAL	20,097.00	kt	0.6270	ktoe/kt	12,600.82	ktoe
COKING COAL	20,097.00	kt	0.6270	ktoe/kt	12,600.82	ktoe
LPG	421.21	kbbl	0.0978	ktoe/kbbl	41.21	ktoe
MOGAS	0.08	kbbl	0.1254	ktoe/kbbl	0.01	ktoe
KEROSENE	170.84	kbbl	0.1314	ktoe/kbbl	22.45	ktoe
DIESEL OIL	45.42	kbbl	0.1390	ktoe/kbbl	6.31	ktoe
FUEL OIL	3,820.20	kbbl	0.1495	ktoe/kbbl	571.00	ktoe
OTHER PETROLEUM PRODUCTS	38.19	kbbl	0.0831	ktoe/kbbl	3.17	ktoe
TOWN GAS	684.89	Mm <sup>3</sup>	0.9450	ktoe/Mm <sup>3</sup>	647.22	ktoe
ELECTRICITY	24,982.28	GWh	0.0860	ktoe/GWh	2,148.48	ktoe
<b>TOTAL</b>					16,040.67	ktoe
<b>I.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
COAL	258.04	kt	0.6270	ktoe/kt	161.79	ktoe
HARD COAL	258.04	kt	0.6270	ktoe/kt	161.79	ktoe
STEAM COAL	258.04	kt	0.6270	ktoe/kt	161.79	ktoe
LPG	9,135.00	kbbl	0.1450	ktoe/kbbl	1,324.80	ktoe
NAPHTHA	245,309.18	kbbl	0.1208	ktoe/kbbl	29,639.90	ktoe
MOGAS	16.16	kbbl	0.1254	ktoe/kbbl	2.03	ktoe
JET FUEL	0.13	kbbl	0.1314	ktoe/kbbl	0.02	ktoe
KEROSENE	239.93	kbbl	0.1314	ktoe/kbbl	31.53	ktoe
DIESEL OIL	548.18	kbbl	0.1390	ktoe/kbbl	76.17	ktoe
FUEL OIL	11,287.57	kbbl	0.1494	ktoe/kbbl	1,686.85	ktoe
OTHER PETROLEUM PRODUCTS	7,084.90	kbbl	0.0979	ktoe/kbbl	693.29	ktoe
TOWN GAS	380.79	Mm <sup>3</sup>	0.9450	ktoe/Mm <sup>3</sup>	359.85	ktoe
ELECTRICITY	29,266.64	GWh	0.0860	ktoe/GWh	2,516.93	ktoe
<b>TOTAL</b>					36,493.16	ktoe
<b>I.3 NON-FERROUS METALS (*3)</b>						
LPG	307.37	kbbl	0.0930	ktoe/kbbl	28.59	ktoe
MOGAS	0.00	kbbl	0.1254	ktoe/kbbl	0.00	ktoe
KEROSENE	63.32	kbbl	0.1314	ktoe/kbbl	8.32	ktoe
DIESEL OIL	29.55	kbbl	0.1390	ktoe/kbbl	4.11	ktoe
FUEL OIL	715.06	kbbl	0.1489	ktoe/kbbl	106.48	ktoe
OTHER PETROLEUM PRODUCTS	40.39	kbbl	0.0831	ktoe/kbbl	3.35	ktoe
<b>TOTAL</b>					150.85	ktoe
<b>I.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
COAL	5,669.00	kt	0.6270	ktoe/kt	3,554.46	ktoe
HARD COAL	5,669.00	kt	0.6270	ktoe/kt	3,554.46	ktoe
STEAM COAL	5,669.00	kt	0.6270	ktoe/kt	3,554.46	ktoe
LPG	1,132.71	kbbl	0.0952	ktoe/kbbl	107.86	ktoe
MOGAS	2.57	kbbl	0.1254	ktoe/kbbl	0.32	ktoe
KEROSENE	168.95	kbbl	0.1314	ktoe/kbbl	22.20	ktoe
DIESEL OIL	376.84	kbbl	0.1390	ktoe/kbbl	52.36	ktoe
FUEL OIL	5,137.39	kbbl	0.1492	ktoe/kbbl	766.61	ktoe
OTHER PETROLEUM PRODUCTS	580.45	kbbl	0.1532	ktoe/kbbl	88.95	ktoe
TOWN GAS	261.28	Mm <sup>3</sup>	0.9450	ktoe/Mm <sup>3</sup>	246.91	ktoe
ELECTRICITY	9,923.31	GWh	0.0860	ktoe/GWh	853.40	ktoe
<b>TOTAL</b>					5,693.07	ktoe
<b>I.5 PAPER, PULP AND PRINTING (*5)</b>						
LPG	98.38	kbbl	0.0926	ktoe/kbbl	9.11	ktoe
MOGAS	3.62	kbbl	0.1254	ktoe/kbbl	0.45	ktoe
KEROSENE	93.13	kbbl	0.1314	ktoe/kbbl	12.24	ktoe
DIESEL OIL	55.80	kbbl	0.1390	ktoe/kbbl	7.75	ktoe
FUEL OIL	7,084.40	kbbl	0.1493	ktoe/kbbl	1,058.02	ktoe
OTHER PETROLEUM PRODUCTS	4.33	kbbl	0.0831	ktoe/kbbl	0.36	ktoe
TOWN GAS	63.78	Mm <sup>3</sup>	0.9450	ktoe/Mm <sup>3</sup>	60.27	ktoe
ELECTRICITY	9,328.81	GWh	0.0860	ktoe/GWh	802.28	ktoe
<b>TOTAL</b>					1,950.48	ktoe
<b>I.6 OTHER INDUSTRIES (*6)</b>						
COAL	6,051.14	kt	0.5897	ktoe/kt	3,568.20	ktoe
HARD COAL	2,097.23	kt	0.6270	ktoe/kt	1,314.96	ktoe
STEAM COAL	2,097.23	kt	0.6270	ktoe/kt	1,314.96	ktoe
ANTHRACITE	3,953.91	kt	0.5699	ktoe/kt	2,253.24	ktoe
LPG	9,056.60	kbbl	0.0463	ktoe/kbbl	419.45	ktoe
MOGAS	376.67	kbbl	0.1254	ktoe/kbbl	47.22	ktoe
JET FUEL	12.98	kbbl	0.1314	ktoe/kbbl	1.71	ktoe
KEROSENE	1,812.27	kbbl	0.1314	ktoe/kbbl	238.13	ktoe
DIESEL OIL	4,394.76	kbbl	0.1390	ktoe/kbbl	610.65	ktoe

Original Table (Disaggregated Final Energy Demand) of Republic of Korea in 2002 (Continued)

2002						
Republic of Korea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	24,307.47	kbbbl	0.1492	ktoe/kbbbl	3,626.75	ktoe
OTHER PETROLEUM PRODUCTS	14,703.09	kbbbl	0.1442	ktoe/kbbbl	2,119.70	ktoe
TOWN GAS	2,385.87	Mm <sup>3</sup>	0.9450	ktoe/Mm <sup>3</sup>	2,254.65	ktoe
ELECTRICITY	64,797.00	GWh	0.0860	ktoe/GWh	5,572.54	ktoe
OTHERS	2,359.34	ktoe	1.0000	ktoe/ktoe	2,359.34	ktoe
<b>TOTAL</b>					<b>20,818.34</b>	<b>ktoe</b>
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
LPG	3.32	kbbbl	0.0756	ktoe/kbbbl	0.25	ktoe
JET FUEL	16,639.14	kbbbl	0.1314	ktoe/kbbbl	2,186.37	ktoe
KEROSENE	5.93	kbbbl	0.1314	ktoe/kbbbl	0.78	ktoe
DIESEL OIL	44.20	kbbbl	0.1390	ktoe/kbbbl	6.14	ktoe
FUEL OIL	0.73	kbbbl	0.1495	/kbbbl	0.11	ktoe
OTHER PETROLEUM PRODUCTS	0.10	kbbbl	0.0831	ktoe/kbbbl	0.01	ktoe
<b>TOTAL</b>					<b>2,193.75</b>	<b>ktoe</b>
<b>2.2 ROAD</b>						
LPG	93.99	kbbbl	42.7239	ktoe/kbbbl	4,015.58	ktoe
MOGAS	60,332.50	kbbbl	0.1254	ktoe/kbbbl	7,563.14	ktoe
KEROSENE	186.13	kbbbl	0.1314	ktoe/kbbbl	24.46	ktoe
DIESEL OIL	96,816.22	kbbbl	0.1390	ktoe/kbbbl	13,452.68	ktoe
FUEL OIL	184.90	kbbbl	0.1487	ktoe/kbbbl	27.49	ktoe
OTHER PETRO. PRODUCTS	13.31	kbbbl	0.0831	ktoe/kbbbl	1.11	ktoe
<b>TOTAL</b>					<b>25,156.10</b>	<b>ktoe</b>
<b>2.3 RAIL</b>						
LPG	0.63	kbbbl	0.1456	ktoe/kbbbl	0.09	ktoe
<b>KEROSENE</b>	1.34	kbbbl	0.1314	ktoe/kbbbl	0.18	ktoe
DIESEL OIL	2,320.87	kbbbl	0.1390	ktoe/kbbbl	322.49	ktoe
FUEL OIL	5.94	kbbbl	0.1495	ktoe/kbbbl	0.89	ktoe
ELECTRICITY	2,270.85	GWh	0.0860	ktoe/GWh	195.29	ktoe
<b>TOTAL</b>					<b>518.93</b>	<b>ktoe</b>
<b>2.4 INTERNAL NAVIGATION</b>						
LPG	11.22	kbbbl	0.1249	ktoe/kbbbl	1.40	ktoe
MOGAS	1.23	kbbbl	0.1254	ktoe/kbbbl	0.15	ktoe
KEROSENE	35.18	kbbbl	0.1314	ktoe/kbbbl	4.62	ktoe
DIESEL OIL	3,983.56	kbbbl	0.1390	ktoe/kbbbl	553.52	ktoe
FUEL OIL	24,458.19	kbbbl	0.1493	ktoe/kbbbl	3,651.06	ktoe
OTHER PETRO. PRODUCTS	13.00	kbbbl	0.0831	ktoe/kbbbl	1.08	ktoe
<b>TOTAL</b>					<b>4,211.83</b>	<b>ktoe</b>
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
<b>TOTAL</b>						<b>ktoe</b>
<b>3.2 RESIDENTIAL</b>						
COAL	1,175.43	kt	0.5635	ktoe/kt	662.38	ktoe
LPG	30,522.82	kbbbl	0.0924	ktoe/kbbbl	2,819.09	ktoe
KEROSENE	50,420.03	kbbbl	0.1314	ktoe/kbbbl	6,625.14	ktoe
DIESEL OIL	10,993.00	kbbbl	0.1390	ktoe/kbbbl	1,527.48	ktoe
FUEL OIL	5,841.33	kbbbl	0.1489	ktoe/kbbbl	869.84	ktoe
OTHER PETROLEUM PRODUCTS	1,520.67	kbbbl	0.0940	ktoe/kbbbl	142.88	ktoe
TOWN GAS	10,003.10	mil. M3	0.9450	ktoe/mil. M3	9,452.93	ktoe
ELECTRICITY	131,726.77	GWh	0.0817	ktoe/GWh	10,764.81	ktoe
HEAT	1,223.38	kt	1.0000	ktoe/kt	1,223.38	ktoe
<b>TOTAL</b>					<b>35,182.88</b>	<b>ktoe</b>

**Original Table (Energy Price) of Republic of Korea in 2002**  
Year: 2002

Republic of Korea	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL			
HARD COAL			
STEAM COAL	US\$/ton	30.84	
COKING COAL	US\$/ton	45.58	
SUBBITUMINOUS COAL			
CRUDE OIL	US\$/bbl	24.24	
PETROLEUM PRODUCTS			
LPG	US\$/bbl	22.13	
NAPHTHA	US\$/bbl	25.32	
MOGAS	US\$/bbl		
JET FUEL	US\$/bbl	27.37	
KEROSENE	US\$/bbl	29.76	
DIESEL OIL	US\$/bbl	29.29	
FUELOIL			
B-A HEAVY OIL			
B-C FUEL OIL	US\$/bbl	24.19	
NATURAL GAS (LNG)	US\$/ton	226.12	
<b>WHOLESALE PRICES</b>			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	won/l	1,206.92	based on Agent Price
JET FUEL			
KEROSENE	won/l	496.01	kerosene for indoor heating
DIESEL OIL	won/l	651.06	sulfur 0.043%
A HEAVY OIL	won/l	361.76	sulfur 0.5%
C FUEL OIL	won/l	334.44	sulfur 0.5%
LPG			
<b>CONSUMER PRICES</b>			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS			
TOWN GAS	won/M <sup>3</sup>	469.50	
PETROLEUM PRODUCTS			
MOGAS	won/l	1,296.10	
KEROSENE	won/l	553.46	kerosene for indoor heating
DIESEL OIL	won/l	677.58	sulfur 0.05%
A HEAVY OIL		361.76	
LPG	won/kg	887.31	for residential use
ELECTRICITY (AVERAGE)(*1)	won/kwh	73.88	
INDUSTRIAL USERS (*1)	won/kwh	70.44	
COMMERCIAL USERS (*1)			
RESIDENTIAL USERS (LIGHTING) (*1)	won/kwh	86.26	

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

## Original Table (Quarterly) of Korea in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	270	6,338	-	-
	FEB.	256	5,449	-	-
	MAR.	294	5,789	-	-
	<b>1st quarter</b>	820	17,576	-	-
	APR.	294	6,416	-	-
	MAY.	274	5,185	-	-
	JUN.	273	4,955	-	-
	<b>2nd quarter</b>	841	16,555	-	-
	JUL.				
	AUG.				
	SEP.				
	<b>3rd quarter</b>				
	OCT.				
	NOV.				
	DEC.				
	<b>4th quarter</b>				

Oil		Unit: 1,000bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.		74,221					
	FEB.		62,715					
	MAR.		76,503					
	<b>1st quarter</b>		213,439					
	APR.		63,959					
	MAY.		62,969					
	JUN.		50,518					
	<b>2nd quarter</b>		177,446					
	JUL.							
	AUG.							
	SEP.							
	<b>3rd quarter</b>							
	OCT.							
	NOV.							
	DEC.							
	<b>4th quarter</b>							

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

		Natural Gas ( or LNG)				Unit: 1,000ton
		Production	Imports	Exports	Stock Changes	
2003	JAN.	-	2,319	-	-	
	FEB.	-	1,988	-	-	
	MAR.	-	1,853	-	-	
	<b>1st quarter</b>	-	6,160	-	-	
	APR.	-	1,551	-	-	
	MAY.	-	1,593	-	-	
	JUN.	-	1,437	-	-	
	<b>2nd quarter</b>	-	4,580	-	-	
	JUL.					
	AUG.					
	SEP.					
	<b>3rd quarter</b>					
	OCT.					
	NOV.					
	DEC.					
	<b>4th quarter</b>					

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	29,223	17,143	334	11,747	-	-	-
	FEB.	25,343	15,653	307	9,383	-	-	-
	MAR.	27,668	15,861	320	11,487	-	-	-
	<b>1st quarter</b>	82,234	48,657	961	32,617	-	-	-
	APR.	25,439	15,198	378	9,863	-	-	-
	MAY.	25,434	15,646	759	9,028	-	-	-
	JUN.	25,407	15,304	657	9,446	-	-	-
	<b>2nd quarter</b>	76,280	46,148	1,794	28,337	-	-	-
	JUL.							
	AUG.							
	SEP.							
	<b>3rd quarter</b>							
	OCT.							
	NOV.							
	DEC.							
	<b>4th quarter</b>							

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 2001

	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
<b>1 Indigenous Production</b>	344	-	32,851	-	-	-	-	-	-
<b>2 Import</b>	2,665	-	9,146	6,881	2,157	-	22	-	2,258
<b>3 Export</b>	-34	-	-18,018	-8,900	-9	-	-1,080	-474	-1,984
<b>4 International Marine Bunkers</b>	-	-	-	-153	-	-	-	-	-30
<b>5 Stock Changes</b>	-64	-	247	0	95	-	40	-4	1
<b>6 Total Primary Energy Supply</b>	2,911	-	24,226	-2,172	2,243	-	-1,018	-478	245
<b>7 Public Electricity</b>	-1,994	-	-	-1,008	-	-	-	-	-278
<b>8 Autoproducers of Electricity</b>	-	-	-	-159	-	-	-	-	-159
<b>9 Gas Processing</b>	-	-	-	1,823	-	-	-	85	115
<b>10 Petroleum Refineries</b>	-	-	-23,846	22,817	4,623	-	2,954	283	8,462
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-348	-	-	-	-	-
<b>13 Discrepancy</b>	60	-	-380	-629	-39	-	-174	209	-269
<b>14 Total Final Energy Consumption</b>	977	-	-	20,324	6,827	-	1,762	99	8,116
<b>15 Industry Sector</b>	977	-	-	5,009	5	-	-	24	3,486
<b>16 Transport Sector</b>	-	-	-	13,121	6,820	-	1,762	-	4,534
<b>17 Other Sector</b>	-	-	-	1,471	2	-	-	75	96
<b>18 Agriculture</b>	-	-	-	98	2	-	-	-	96
<b>19 Residential &amp; Commercial</b>	-	-	-	1,373	-	-	-	75	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	723	-	-	-	-	-

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

Energy Balance Table of Malaysia in 2001 (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
-	-	-	-	43,462	-	607	-	-	-	-	-	77,264
1,904	257	-	283	-	-	-	-	-	-	-	-	18,692
-1,664	-1,258	-	-2,431	-17,814	-	-	-	-	-	-	-	-44,766
-123	-	-	-	-	-	-	-	-	-	-	-	-153
-49	3	-	-86	-	-	-	-	-	-	-	-	183
68	-998	-	-2,234	25,648	-	607	-	-	-	-	-	51,220
-730	-	-	-	-11,922	-	-607	-	-	-	5,940	-	-9,591
-	-	-	-	-495	-	-	-	-	-	172	-	-482
-	1,310	-	313	-9,068	-	-	-	-	-	-	-	-7,245
2,269	875	331	3,020	-	-	-	-	-	-	-	-	-1,029
-	-	-	-	-	-	-	-	-	-	-	-	-
-16	-4	-328	-	-210	-	-	-	-	-	-209	-	-767
-93	209	1	-473	668	-	0	-	-	-	-309	-	-590
1,498	1,392	4	626	4,621	-	-	-	-	-	5,594	-	31,516
1,143	347	4	-	2,937	-	-	-	-	-	2,930	-	11,853
5	-	-	-	14	-	-	-	-	-	3	-	13,138
350	948	-	-	14	-	-	-	-	-	2,660	-	4,145
-	-	-	-	-	-	-	-	-	-	-	-	98
350	948	-	-	14	-	-	-	-	-	2,660	-	4,047
-	-	-	-	-	-	-	-	-	-	-	-	-
-	97	-	626	1,655	-	-	-	-	-	-	-	2,378

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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	10,553	13,633	14,110	14,110	16,130	16,314	17,174	18,992	20,972
Indigenous Production	16,072	24,931	31,216	32,137	38,280	39,167	41,881	45,139	46,529
Import	6,752	6,944	6,385	6,731	6,543	6,478	6,483	8,485	9,708
Export	-11,759	-18,116	-23,352	-24,945	-28,728	-29,066	-31,186	-34,545	-35,090
Final Energy Consumption	6,385	7,850	8,045	8,612	9,368	9,983	10,456	11,848	13,146
Industry	2,870	3,301	3,304	3,489	3,430	3,709	3,722	4,704	5,276
Transport	2,398	3,170	3,300	3,377	3,726	3,929	4,278	4,684	5,386
Residential & Commercial	826	1,040	1,099	1,123	1,233	1,297	1,435	1,495	1,646
Agriculture	-	-	-	-	-	-	-	-	-
<b>Coal, Coal Products</b>									
Primary Energy Supply	53	249	270	362	268	327	260	1,158	1,355
Indigenous Production	-	-	-	-	-	-	15	76	70
Import	53	249	270	362	268	327	260	1,093	1,424
Export	-	-	-	-	-	-	-15	-11	-28
Transformation Sector	-	-	-	-	-	-	-71	-602	-813
Power Generation	-	-	-	-	-	-	-71	-602	-813
Final Energy Consumption	53	249	270	362	268	327	189	595	513
Industry	53	249	270	362	268	327	189	595	513
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	5,783	6,948	7,743	7,320	7,551	7,680	8,372	8,777	10,024
Indigenous Production	13,707	19,045	22,207	22,187	24,979	24,742	26,923	28,967	30,629
Import	4,034	2,709	2,690	2,302	2,113	1,892	2,012	1,901	2,244
Export	-11,619	-14,720	-17,073	-17,338	-19,683	-18,784	-20,593	-22,090	-22,949
Transformation Sector	-5,901	-6,750	-7,721	-7,579	-7,548	-7,806	-8,449	-8,752	-9,980
Petroleum Refineries	-5,901	-6,750	-7,721	-7,579	-7,548	-7,806	-8,449	-8,752	-9,980
<b>Petroleum Products</b>									
Primary Energy Supply	2,353	2,965	1,684	2,131	1,798	1,739	1,789	1,444	2,454
Import	2,658	3,981	3,418	4,062	4,162	4,259	4,211	5,490	6,031
Export	-132	-976	-1,676	-1,949	-2,257	-2,425	-2,388	-3,960	-3,413
Transformation Sector	3,185	3,560	4,722	4,736	5,259	5,662	5,982	6,871	7,236
Power Generation	-2,346	-2,831	-2,672	-2,519	-2,452	-2,269	-2,284	-2,207	-2,989
Petroleum Refineries	5,693	6,556	7,608	7,530	7,845	8,060	8,437	9,219	10,414
Final Energy Consumption	5,550	6,621	6,622	6,656	6,880	7,271	7,816	8,635	9,825
Industry	2,432	2,628	2,492	2,402	2,242	2,437	2,536	2,996	3,481
Transport	2,398	3,170	3,300	3,377	3,726	3,929	4,278	4,684	5,386
Residential & Commercial	429	484	488	472	513	528	612	642	729
Agriculture	-	-	-	-	-	-	-	-	-
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	2,237	3,319	4,112	3,971	6,162	6,147	6,271	7,181	6,801
Indigenous Production	2,245	5,737	8,715	9,629	12,950	14,002	14,455	15,645	15,487
Import	-	-	-	-	-	-	-	-	-
Export	-8	-2,418	-4,603	-5,658	-6,788	-7,855	-8,184	-8,464	-8,686
Transformation Sector	-2,202	-3,274	-3,978	-3,985	-4,538	-4,963	-5,187	-5,967	-5,877
Power Generation	-33	-59	-81	-539	-703	-818	-990	-1,004	-1,361
Final Energy Consumption	35	45	134	515	1,056	1,132	1,058	1,070	1,093
Industry	1	1	87	250	413	387	367	373	452
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	34	44	47	47	63	74	60	45	32
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	864	1,097	1,182	1,285	1,387	1,498	1,664	1,850	1,979
Thermal	744	948	888	964	1,036	1,075	1,176	1,399	1,636
Hydro	120	149	294	321	351	423	488	451	343
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	747	935	1,019	1,079	1,164	1,253	1,393	1,548	1,715
Industry	384	423	455	475	507	558	630	740	830
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	363	512	564	604	657	695	763	808	885
Agriculture	-	-	-	-	-	-	-	-	-

## Major Energy Indicators of Malaysia (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
25,630	28,672	30,958	31,375	33,390	37,873	44,403	41,905	41,893	51,492	51,220	52,995	
50,738	52,336	54,173	56,516	62,388	68,635	72,863	73,655	72,439	79,473	77,264	80,519	
10,190	9,406	12,269	11,000	11,128	11,615	14,773	13,060	13,122	16,271	18,692	17,979	
-35,073	-34,225	-35,264	-35,400	-39,423	-42,384	-42,913	-43,714	-41,829	-43,637	-44,766	-45,199	
14,563	16,185	17,729	19,287	22,164	24,182	26,168	25,558	27,228	29,697	31,516	33,289	
5,809	6,455	7,012	7,283	8,060	9,443	10,106	10,122	10,239	11,401	11,853	12,853	
5,806	6,226	6,557	7,262	7,827	8,951	10,201	9,793	11,393	12,070	13,138	13,441	
1,747	1,891	2,070	2,503	2,837	3,557	3,072	3,313	3,653	3,867	4,047	4,386	
130	391	62	422	446	486	490	307	106	104	98	95	
1,532	1,587	1,352	1,563	1,612	2,053	1,569	1,660	1,376	2,308	2,911	4,133	
126	53	264	89	85	153	153	221	174	242	344	223	
1,407	1,485	1,158	1,351	1,588	1,938	1,446	1,529	1,321	1,943	2,665	3,442	
-66	-60	-70	-40	-50	-15	-9	-7	-8	-19	-34	-37	
-963	-968	-884	-925	-957	-950	-882	-964	-1,332	-1,495	-1,994	-2,556	
-963	-968	-884	-925	-957	-950	-882	-964	-1,332	-1,495	-1,994	-2,556	
599	672	487	598	712	727	740	767	608	991	977	1,086	
599	672	487	598	712	727	740	767	608	991	977	1,086	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
10,244	10,481	13,573	14,983	17,476	19,834	21,347	18,963	17,946	24,137	24,226	23,066	
31,843	32,264	32,218	32,798	35,090	35,744	35,600	35,784	32,835	33,835	32,851	34,838	
2,044	1,409	3,265	2,140	2,116	2,571	2,989	2,171	3,444	7,709	9,146	7,317	
-23,444	-23,374	-21,766	-19,726	-19,833	-18,315	-17,322	-18,640	-18,355	-17,254	-18,018	-18,100	
-10,243	-10,425	-11,697	-14,179	-16,960	-19,380	-19,605	-17,289	-18,944	-22,164	-23,846	-22,881	
-10,243	-10,425	-11,697	-14,179	-16,960	-19,380	-19,605	-17,289	-18,944	-22,164	-23,846	-22,881	
3,365	4,850	4,252	1,872	-191	-26	2,112	1,764	418	-1,922	-2,172	-758	
6,728	6,499	7,835	7,492	7,411	7,095	10,331	9,360	8,357	6,619	6,881	7,220	
-3,272	-2,513	-3,507	-5,094	-7,261	-7,317	-7,840	-7,194	-7,161	-8,533	-8,900	-8,158	
7,532	7,193	8,442	12,529	16,163	17,043	15,185	15,464	17,497	21,347	23,125	21,146	
-2,851	-2,512	-2,475	-2,206	-2,338	-2,638	-2,667	-2,584	-1,301	-966	-1,167	-2,011	
10,588	9,502	10,483	13,803	16,686	18,451	16,573	16,733	17,727	20,954	22,817	21,495	
10,914	11,927	13,076	13,894	16,142	17,203	18,578	17,488	18,782	19,581	20,324	20,638	
3,786	3,967	4,670	4,634	4,945	5,490	5,870	5,514	5,149	5,278	5,009	4,884	
5,806	6,226	6,557	7,257	7,822	8,945	10,194	9,788	11,389	12,059	13,121	13,409	
725	778	900	927	999	1,407	1,103	1,138	1,419	1,398	1,373	1,512	
130	391	62	422	446	486	490	307	106	104	98	95	
10,112	11,381	11,360	12,392	13,960	15,567	19,041	19,101	21,506	26,370	25,648	26,101	
18,390	19,644	21,272	23,068	26,678	32,292	36,777	37,233	38,783	44,797	43,462	45,002	
-	-	-	-	-	-	-	-	-	-	-	-	
-8,278	-8,263	-9,912	-10,527	-12,264	-16,725	-17,736	-17,873	-16,305	-17,831	-17,814	-18,901	
-9,152	-10,006	-9,383	-12,180	-12,341	-13,060	-16,107	-15,632	-18,464	-21,382	-21,695	-20,495	
-2,533	-3,144	-4,374	-5,119	-6,414	-7,489	-7,531	-9,158	-10,650	-12,110	-12,417	-12,552	
1,125	1,368	1,716	1,863	1,935	2,475	2,466	2,726	3,023	3,862	4,621	5,643	
487	679	552	484	577	1,197	1,074	1,430	1,891	2,327	2,937	3,824	
-	-	-	5	5	5	6	4	-	7	14	28	
34	32	23	211	289	403	8	10	14	16	14	15	
-	-	-	-	-	-	-	-	-	-	-	-	
2,283	2,521	2,987	3,362	3,909	4,421	4,977	5,220	5,609	5,952	6,112	6,384	
1,904	2,146	2,568	2,801	3,374	3,975	4,644	4,803	4,962	5,353	5,505	5,928	
379	375	419	561	535	446	333	417	647	599	607	456	
-	-	-	-	-	-	-	-	-	-	-	-	
1,925	2,218	2,450	2,932	3,375	3,777	4,384	4,577	4,815	5,263	5,594	5,922	
937	1,137	1,303	1,567	1,826	2,029	2,422	2,411	2,591	2,805	2,930	3,059	
-	-	-	-	-	1	1	1	4	4	3	4	
988	1,081	1,147	1,365	1,549	1,747	1,961	2,165	2,220	2,453	2,660	2,859	
-	-	-	-	-	-	-	-	-	-	-	-	

## Major Economic Indicators of Malaysia

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	13.76	14.85	15.25	15.68	16.14	16.63	17.14	17.67
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	31.62	38.06	41.01	40.55	41.02	43.23	47.52	51.83
Real Term (Billions of 1995 Price and 1995 PPP)	51.95	62.54	67.39	66.64	67.40	71.04	78.10	85.17
Nominal (Billions of Current USD)	24.94	30.68	34.57	31.77	28.24	32.18	35.27	38.85
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	2,297	2,563	2,689	2,587	2,541	2,599	2,772	2,933
Real Term (1995 Price and 1995 PPP)	3,775	4,212	4,419	4,251	4,175	4,271	4,555	4,820
Nominal (Current USD)	1,812	2,067	2,267	2,027	1,750	1,935	2,057	2,199
Nominal GDP & its Components (Billions of Current MYR) *1								
Gross Domestic Product	54.29	71.22	81.01	78.89	72.91	81.08	92.37	105.23
Household Final Consumption Expenditure, etc.	27.93	37.79	41.04	41.76	37.83	39.06	45.44	52.62
General Government Final Consumption Expenditure	8.68	10.85	11.57	11.67	11.95	12.06	13.15	14.80
Gross Fixed Capital Formation	16.26	24.69	24.87	22.65	18.48	17.90	22.73	30.60
Stock Change	-1.38	-0.42	-0.39	-3.05	-1.42	-0.98	-0.98	-0.98
Exports of Goods and Services	30.77	35.91	43.31	42.67	40.43	51.00	61.35	75.11
Imports of Goods and Services	29.46	39.95	41.82	38.72	36.09	39.75	51.92	68.73
Real GDP & its Components (Billions of 1987 MYR) *1								
Gross Domestic Product	59.30	71.38	76.93	76.06	76.94	81.08	89.14	97.22
Household Final Consumption Expenditure, etc.	35.55	39.82	42.39	42.53	38.27	39.06	43.66	49.47
General Government Final Consumption Expenditure	9.66	12.45	11.84	11.74	11.89	12.06	12.95	13.43
Gross Fixed Capital Formation	17.87	24.63	25.35	22.95	18.73	17.90	22.06	28.24
Stock Change	0.30	1.60	2.30	-0.75	0.48	0.81	1.51	0.75
Exports of Goods and Services	28.26	34.84	39.65	39.82	44.52	51.00	56.56	65.15
Imports of Goods and Services	31.16	40.80	43.46	39.18	36.65	39.75	47.59	59.82
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	21.0	19.4	18.5	19.1	19.7	20.0	18.6	17.9
Industry	36.1	36.6	37.9	37.2	38.3	38.5	39.6	39.5
Services, etc.	42.8	44.0	43.6	43.8	42.0	41.5	41.7	42.6
Industrial Production Index (2000=100) *2	17.1	20.9	24.2	23.7	25.9	28.1	32.1	35.9
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	12.958	14.130	16.590	15.442	13.753	17.939	21.110	25.053
Imports, c.i.f.	10.820	13.198	14.069	12.301	10.823	12.701	16.551	22.496
Balance of Payments (Billions of Current USD) *2								
Trade Balance	2.393	0.438	2.931	3.573	3.214	5.783	5.427	4.277
Current Account	-0.266	-3.482	-1.657	-0.600	-0.101	2.575	1.867	0.315
Overall Balance	0.464	-0.013	0.492	1.148	1.461	1.139	-0.458	1.235
Foreign Exchange Rate (MYR/USD) *1	2.1769	2.3212	2.3436	2.4830	2.5814	2.5196	2.6188	2.7088
Purchasing Power Parity (MYR/International Dollar) *1	1.8206	1.5977	1.6182	1.5383	1.3813	1.4216	1.4341	1.4412
Price Indices								
GDP Deflator (1987=100) *3	91.5	99.8	105.3	103.7	94.8	100.0	103.6	108.2
Producer Price Index (2000=100) *2	N.A.	N.A.	68.2	66.8	62.6	65.0	69.7	72.4
Consumer Price Index (2000=100) *2	51.4	61.9	64.3	64.5	65.0	65.2	66.9	68.8
Growth Rate (%) *3								
Real GDP	7.44	6.25	7.76	-1.12	1.15	5.39	9.94	9.06
Population	2.38	2.63	2.71	2.80	2.97	3.04	3.07	3.07
Price								
Producer Price Index	N.A.	N.A.	N.A.	-2.1	-6.2	3.7	7.3	3.8
Consumer Price Index	6.7	3.7	3.9	0.3	0.7	0.3	2.6	2.8

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"

: MYR shows Malaysian Ringgit, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Malaysia (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
18.20	18.66	19.13	19.61	20.10	20.61	21.13	21.67	22.18	22.71	23.27	23.80	24.31
56.50	61.89	67.39	74.06	80.88	88.83	97.72	104.87	97.16	103.12	111.88	112.22	116.82
92.84	101.71	110.74	121.70	132.91	145.98	160.58	172.34	159.65	169.45	183.86	184.41	191.97
44.02	49.13	59.15	66.89	74.48	88.83	100.85	100.17	72.18	79.15	90.16	87.98	94.91
3,104	3,317	3,523	3,777	4,023	4,310	4,625	4,840	4,380	4,541	4,808	4,715	4,806
5,101	5,451	5,790	6,206	6,612	7,083	7,600	7,954	7,198	7,462	7,901	7,748	7,898
2,419	2,634	3,093	3,411	3,705	4,310	4,773	4,623	3,254	3,485	3,875	3,696	3,905
119.08	135.12	150.68	172.19	195.46	222.47	253.73	281.80	283.24	300.76	342.61	334.31	360.66
61.69	70.50	75.75	83.14	94.09	106.61	116.79	127.78	117.72	125.06	145.35	150.65	159.51
16.43	18.50	19.60	21.75	23.97	27.53	28.18	30.34	27.67	33.04	35.68	42.10	50.02
39.35	49.13	55.19	66.94	78.66	96.97	107.82	121.49	75.98	65.84	87.73	83.35	83.76
-0.81	1.94	-1.91	0.54	1.87	0.12	-2.58	-0.40	-0.43	1.48	5.38	-3.27	4.42
88.76	105.16	114.49	135.90	174.25	209.32	232.36	262.88	327.84	364.86	427.00	389.26	411.39
86.24	110.11	112.45	136.07	177.39	218.08	228.84	260.31	265.54	289.51	358.53	327.77	348.44
105.98	116.09	126.41	138.92	151.71	166.63	183.29	196.71	182.24	193.42	209.86	210.49	219.12
55.35	60.36	63.17	67.12	73.42	81.98	87.61	91.39	82.03	84.38	95.37	97.63	101.95
14.22	15.89	16.67	18.08	19.50	20.68	20.83	22.02	20.06	23.49	23.87	27.92	31.34
35.89	43.91	48.74	57.41	66.67	81.89	88.62	96.74	55.18	51.57	64.84	63.05	63.25
-0.70	1.66	-1.61	0.45	-1.49	0.09	-1.90	-0.28	-0.23	1.25	2.79	-1.78	3.45
76.76	88.86	100.06	111.60	136.05	161.86	176.79	186.50	187.42	212.09	246.16	227.69	235.83
75.54	94.59	100.62	115.74	145.42	179.88	188.67	199.65	162.21	179.35	223.06	203.87	216.51
16.1	14.9	14.6	12.9	11.6	10.3	9.8	9.2	9.6	9.1	8.6	8.5	8.4
40.2	40.8	40.2	40.7	41.3	43.3	45.0	45.1	43.5	44.6	46.6	44.7	46.4
43.6	44.4	45.1	46.4	47.1	46.5	45.2	45.8	46.9	46.4	44.8	46.8	45.2
40.2	44.7	48.6	53.3	59.7	67.5	74.9	82.9	77.0	83.9	100.0	95.9	100.3
29.452	34.349	40.772	47.131	58.844	73.914	78.327	78.740	73.305	84.455	98.229	88.005	93.265
29.258	36.648	39.855	45.650	59.600	77.691	78.418	79.030	58.319	64.966	81.963	73.866	79.869
2.525	0.391	3.150	3.037	1.577	-0.103	3.848	3.510	17.505	22.644	20.827	18.383	18.135
-0.870	-4.183	-2.167	-2.991	-4.520	-8.644	-4.462	-5.935	9.529	12.604	8.488	7.287	7.190
1.951	1.236	6.618	11.350	-3.160	-1.763	2.513	-3.875	10.018	4.712	-1.009	1.000	3.657
2.7049	2.7501	2.5474	2.5741	2.6243	2.5044	2.5159	2.8132	3.9244	3.8000	3.8000	3.8000	3.8000
1.4605	1.4478	1.4431	1.4736	1.5002	1.5240	1.5501	1.5616	1.6726	1.6202	1.6437	1.5749	1.6266
112.4	116.4	119.2	124.0	128.8	133.5	138.4	143.3	155.4	155.5	163.3	158.8	164.6
73.0	76.0	76.8	77.9	81.7	86.2	88.2	90.5	100.3	97.0	100.0	95.0	99.2
70.6	73.6	77.1	79.9	82.8	85.7	88.7	91.1	95.9	98.5	100.0	101.4	103.3
9.01	9.55	8.89	9.89	9.21	9.83	10.00	7.32	-7.36	6.14	8.50	0.30	4.10
3.01	2.50	2.52	2.52	2.52	2.52	2.52	2.55	2.37	2.39	2.47	2.29	2.11
0.9	4.0	1.1	1.4	4.9	5.5	2.3	2.6	10.8	-3.3	3.1	-5.0	4.5
2.6	4.4	4.8	3.5	3.7	3.5	3.5	2.7	5.3	2.7	1.5	1.4	1.8

## Original Table (Energy Demand and Supply) of Malaysia in 2002

Year:2002

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	353.74	kt	0.6304	ktoe/kt	223.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	33,663.16	kbbbl	1.0349	ktoe/kbbbl	34,838.00	ktoe
CRUDE OIL	33,663.16	kbbbl	1.0349	ktoe/kbbbl	34,838.00	ktoe
NATURAL GAS AND LNG	1,609,209.45	mmscf	0.0280	ktoe/mmscf	45,002.00	ktoe
NATURAL GAS	1,609,209.45	mmscf	0.0280	ktoe/mmscf	45,002.00	ktoe
HYDRO POWER	5,299.73	GWh	0.0860	ktoe/GWh	455.78	ktoe
TOTAL PRODUCTION					80,518.78	ktoe
<b>OPENING STOCKS</b>						
COAL	4,037.46	kt	0.6304	ktoe/kt	2,545.30	ktoe
CRUDE OIL AND NGL/CONDENSATE	3,248.47	kt	1.0349	ktoe/kt	3,361.83	ktoe
CRUDE OIL	3,248.47	kt	1.0349	ktoe/kt	3,361.83	ktoe
LPG	65.22	kt	1.0884	ktoe/kt	70.99	ktoe
MOGAS	415.47	kt	1.0507	ktoe/kt	436.54	ktoe
JET FUEL	197.61	kt	1.0325	ktoe/kt	204.03	ktoe
KEROSENE	45.28	kt	1.0325	ktoe/kt	46.75	ktoe
DIESEL OIL	776.13	kt	1.0158	ktoe/kt	788.37	ktoe
FUEL OIL	612.40	kt	0.9919	ktoe/kt	607.42	ktoe
OTHER PETROLEUM PRODUCTS	1,223.06	ktoe	1.0000	ktoe/ktoe	1,223.06	ktoe
TOTAL OPENING STOCKS					9,284.29	ktoe
<b>CLOSING STOCKS</b>						
COAL	3,236.41	kt	0.6304	ktoe/kt	2,040.30	ktoe
CRUDE OIL AND NGL/CONDENSATE	4,204.13	kt	1.0349	ktoe/kt	4,350.83	ktoe
CRUDE OIL	4,204.13	kt	1.0349	ktoe/kt	4,350.83	ktoe
LPG	59.50	kt	1.0884	ktoe/kt	64.76	ktoe
MOGAS	423.09	kt	1.0507	ktoe/kt	444.54	ktoe
JET FUEL	94.95	kt	1.0325	ktoe/kt	98.03	ktoe
KEROSENE	1.69	kt	1.0325	ktoe/kt	1.75	ktoe
DIESEL OIL	753.48	kt	1.0158	ktoe/kt	765.37	ktoe
FUEL OIL	592.24	kt	0.9919	ktoe/kt	587.42	ktoe
OTHER PETROLEUM PRODUCTS	1,145.05	ktoe	1.0000	ktoe/ktoe	1,145.05	ktoe
TOTAL CLOSING STOCKS					9,498.05	ktoe
<b>STOCK CHANGE</b>						
COAL	801.05	kt	0.6304	ktoe/kt	505.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	-955.65	kt	1.0349	ktoe/kt	-989.00	ktoe
CRUDE OIL	-955.65	kt	1.0349	ktoe/kt	-989.00	ktoe
LPG	5.51	kt	1.0884	ktoe/kt	6.00	ktoe
MOGAS	-7.61	kt	1.0507	ktoe/kt	-8.00	ktoe
JET FUEL	102.66	kt	1.0325	ktoe/kt	106.00	ktoe
KEROSENE	43.58	kt	1.0325	ktoe/kt	45.00	ktoe
DIESEL OIL	22.64	kt	1.0158	ktoe/kt	23.00	ktoe
FUEL OIL	20.16	kt	0.9919	ktoe/kt	20.00	ktoe
OTHER PETROLEUM PRODUCTS	78.00	ktoe	1.0000	ktoe/ktoe	78.00	ktoe
LNG		kt	1.0792	ktoe/kt		ktoe
TOTAL STOCK CHANGE					-214.00	ktoe
<b>IMPORTS</b>						
COAL	5,459.85	kt	0.6304	ktoe/kt	3,442.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	6,844.17	kt	1.0349	ktoe/kt	7,083.00	ktoe
CRUDE OIL	6,844.17	kt	1.0349	ktoe/kt	7,083.00	ktoe
LPG	302.27	kt	1.0884	ktoe/kt	329.00	ktoe
MOGAS	2,392.68	kt	1.0507	ktoe/kt	2,514.00	ktoe
JET FUEL	24.21	kt	1.0325	ktoe/kt	25.00	ktoe
KEROSENE	99.76	kt	1.0325	ktoe/kt	103.00	ktoe
DIESEL OIL	1,434.37	kt	1.0158	ktoe/kt	1,457.00	ktoe
FUEL OIL	2,345.08	kt	0.9919	ktoe/kt	2,326.00	ktoe
OTHER PETROLEUM PRODUCTS	466.00	ktoe	1.0000	ktoe/ktoe	466.00	ktoe
OTHERS(FEED-STOCK)	234.00	ktoe	1.0000	ktoe/ktoe	234.00	ktoe
TOTAL IMPORTS					17,979.00	ktoe
<b>EXPORTS</b>						
COAL	58.69	kt	0.6304	ktoe/kt	37.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	17,489.70	kt	1.0349	ktoe/kt	18,100.00	ktoe
CRUDE OIL	17,489.70	kt	1.0349	ktoe/kt	18,100.00	ktoe
LPG	1,235.72	kt	1.0884	ktoe/kt	1,345.00	ktoe
MOGAS	12.37	kt	1.0507	ktoe/kt	13.00	ktoe
JET FUEL	915.26	kt	1.0325	ktoe/kt	945.00	ktoe
KEROSENE	528.82	kt	1.0325	ktoe/kt	546.00	ktoe
DIESEL OIL	1,416.65	kt	1.0158	ktoe/kt	1,439.00	ktoe
FUEL OIL	1,640.35	kt	0.9919	ktoe/kt	1,627.00	ktoe
OTHER PETROLEUM PRODUCTS	2,243.00	ktoe	1.0000	ktoe/ktoe	2,243.00	ktoe
NATURAL GAS AND LNG					18,901.00	ktoe
NATURAL GAS	41,878.14	mmscf	0.0262	ktoe/mmscf	1,098.00	ktoe
LNG	16,482.40	kt	1.0801	ktoe/kt	17,803.00	ktoe
ELECTRICITY	34.87	GWh	0.0860	ktoe/GWh	3.00	ktoe
TOTAL EXPORTS					45,199.00	ktoe
<b>INTERNATIONAL MARINE BUNKERS</b>						
DIESEL OIL	64.98	kt	1.0158	ktoe/kt	66.00	ktoe
FUEL OIL	24.20	kt	0.9919	ktoe/kt	24.00	ktoe
<b>TOTAL PRIMARY ENERGY SUPPLY</b>						
					52,994.78	ktoe
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						

Original Table (Energy Demand and Supply) of Malaysia in 2002 (Continued)

Year:2002

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	21,883.38	kt	1.0349	ktoe/kt	22,647.00	ktoe
CRUDE OIL	21,883.38	kt	1.0349	ktoe/kt	22,647.00	ktoe
OTHERS	226.11	kt	1.0349	ktoe/kt	234.00	ktoe
<b>GAS PROCESSING</b>						
NATURAL GAS	1,070,648.50	GJ	0.0239	ktoe/GJ	25,572.00	ktoe
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	4,054.44	kt	0.6304	ktoe/kt	2,556.00	ktoe
DIESEL OIL	468.61	kt	1.0158	ktoe/kt	476.00	ktoe
FUEL OIL	1,374.18	kt	0.9919	ktoe/kt	1,363.00	ktoe
NATURAL GAS AND LNG	473,856.12	mmscf	0.0262	ktoe/mmscf	12,424.00	ktoe
NATURAL GAS	473,856.12	mmscf	0.0262	ktoe/mmscf	12,424.00	ktoe
HYDRO POWER	5,302.33	GWh	0.0860	ktoe/GWh	456.00	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
DIESEL OIL	169.33	kt	1.0158	ktoe/kt	172.00	ktoe
NATURAL GAS AND LNG	4,881.97	mmscf	0.0262	ktoe/mmscf	128.00	ktoe
NATURAL GAS	4,881.97	mmscf	0.0262	ktoe/mmscf	128.00	ktoe
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
REFINERY GAS	246,019.20	kt	0.0012	ktoe/kt	294.00	ktoe
LPG	824.12	kt	1.0884	ktoe/kt	897.00	ktoe
MOGAS	4,244.78	kt	1.0507	ktoe/kt	4,460.00	ktoe
JET FUEL	2,489.13	kt	1.0325	ktoe/kt	2,570.00	ktoe
KEROSENE	400.97	kt	1.0325	ktoe/kt	414.00	ktoe
DIESEL OIL	8,270.54	kt	1.0158	ktoe/kt	8,401.00	ktoe
FUEL OIL	2,351.13	kt	0.9919	ktoe/kt	2,332.00	ktoe
OTHER PETROLEUM PRODUCTS	2,127.00	ktoe	1.0000	ktoe/ktoe	2,127.00	ktoe
<b>GAS RECOVERING</b>						
LPG	1,381.80	kt	1.0884	ktoe/kt	1,504.00	ktoe
KEROSENE	30.02	kt	1.0325	ktoe/kt	31.00	ktoe
DIESEL OIL	116.17	kt	1.0158	ktoe/kt	118.00	ktoe
OTHER PETROLEUM PRODUCTS	296.00	ktoe	1.0000	ktoe/ktoe	296.00	ktoe
LNG	16,482.40	kt	1.0801	ktoe/kt	17,803.00	ktoe
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	67,071.84	GWh	0.0860	ktoe/GWh	5,771.00	ktoe
HYDRO POWER	5,299.73	GWh	0.0860	ktoe/GWh	456.00	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	1,824.69	GWh	0.0860	ktoe/GWh	157.00	ktoe
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
REFINERY GAS	236,814.40	kt	0.0012	ktoe/kt	283.00	ktoe
LPG	3,675.01	kt	0.0011	ktoe/kt	4.00	ktoe
NATURAL GAS AND LNG	162.19	kt	1.0728	ktoe/kt	174.00	ktoe
NATURAL GAS	162.19	kt	1.0728	ktoe/kt	174.00	ktoe
ELECTRICITY	3,475.04	GWh	0.0860	ktoe/GWh	299.00	ktoe
TOTAL LOSSES AND OWN USE					760.00	ktoe
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	1,722.66	kt	0.6304	ktoe/kt	1,086.00	ktoe
REFINERY GAS	5.51	kt	1.0888	ktoe/kt	6.00	ktoe
LPG	1,416.28	kt	1.0888	ktoe/kt	1,542.00	ktoe
MOGAS	6,612.72	kt	1.0507	ktoe/kt	6,948.00	ktoe
JET FUEL	1,728.83	kt	1.0325	ktoe/kt	1,785.00	ktoe
KEROSENE	89.10	kt	1.0325	ktoe/kt	92.00	ktoe
DIESEL OIL	7,917.11	kt	1.0158	ktoe/kt	8,042.00	ktoe
FUEL OIL	1,603.04	kt	0.9919	ktoe/kt	1,590.00	ktoe
OTHER PETROLEUM PRODUCTS	633.00	ktoe	1.0000	ktoe/ktoe	633.00	ktoe
NATURAL GAS AND LNG	215,217.39	mmscf	0.0262	ktoe/mmscf	5,643.00	ktoe
NATURAL GAS	215,217.39	mmscf	0.0262	ktoe/mmscf	5,643.00	ktoe
ELECTRICITY	68,826.80	GWh	0.0860	ktoe/GWh	5,922.00	ktoe
TOTAL					33,289.00	ktoe
<b>AGRICULTURE</b>						
MOGAS	1.90	kt	1.0507	ktoe/kt	2.00	ktoe
DIESEL OIL	91.56	kt	1.0158	ktoe/kt	93.00	ktoe
TOTAL					95.00	ktoe
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	979.09	kt	1.0888	ktoe/kt	1,066.00	ktoe
KEROSENE	62.95	kt	1.0325	ktoe/kt	65.00	ktoe
FUEL OIL	384.13	kt	0.9919	ktoe/kt	381.00	ktoe
NATURAL GAS AND LNG	572.08	mmscf	0.0262	ktoe/mmscf	15.00	ktoe
NATURAL GAS	572.08	mmscf	0.0262	ktoe/mmscf	15.00	ktoe
ELECTRICITY	33,227.93	GWh	0.0860	ktoe/GWh	2,859.00	ktoe
TOTAL					4,386.00	ktoe
<b>OTHERS</b>						
TOTAL						ktoe
<b>INDUSTRY</b>						
COAL	1,722.66	kt	0.6304	ktoe/kt	1,086.00	ktoe
REFINERY GAS	5.51	kt	1.0888	ktoe/kt	6.00	ktoe
LPG	343.51	kt	1.0888	ktoe/kt	374.00	ktoe
MOGAS	4.76	kt	1.0507	ktoe/kt	5.00	ktoe
KEROSENE	26.15	kt	1.0325	ktoe/kt	27.00	ktoe
DIESEL OIL	3,217.25	kt	1.0158	ktoe/kt	3,268.00	ktoe

Original Table (Energy Demand and Supply) of Malaysia in 2002 (Continued)

Year:2002

Malaysia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
FUEL OIL	1,213.88	kt	0.9919	ktoe/kt	1,204.00	ktoe
NATURAL GAS AND LNG	145,842.87	mmscf	0.0262	ktoe/mmscf	3,824.00	ktoe
NATURAL GAS	145,842.87	mmscf	0.0262	ktoe/mmscf	3,824.00	ktoe
ELECTRICITY	35,552.38	GWh	0.0860	ktoe/GWh	3,059.00	ktoe
TOTAL					12,853.00	ktoe
<b>TRANSPORT</b>						
MOGAS	6,605.10	kt	1.0507	ktoe/kt	6,940.00	ktoe
JET FUEL	1,728.83	kt	1.0325	ktoe/kt	1,785.00	ktoe
DIESEL OIL	4,607.32	kt	1.0158	ktoe/kt	4,680.00	ktoe
FUEL OIL	4.03	kt	0.9919	ktoe/kt	4.00	ktoe
NATURAL GAS AND LNG	1,067.93	mmscf	0.0262	ktoe/mmscf	28.00	ktoe
NATURAL GAS	1,067.93	mmscf	0.0262	ktoe/mmscf	28.00	ktoe
ELECTRICITY	46.49	GWh	0.0860	ktoe/GWh	4.00	ktoe
TOTAL					13,441.00	ktoe
<b>NON-ENERGY</b>						
LPG	93.68	kt	1.0888	ktoe/kt	102.00	ktoe
OTHER PETROLEUM PRODUCTS	633.00	ktoe	1.0000	ktoe/ktoe	633.00	ktoe
NATURAL GAS AND LNG	67,699.18	mmscf	0.0262	ktoe/mmscf	1,775.00	ktoe
NATURAL GAS	67,699.18	mmscf	0.0262	ktoe/mmscf	1,775.00	ktoe
TOTAL NON-ENERGY USE					2,510.00	ktoe

ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	13,565	
COAL	1700	
OIL	1068.1	
GAS	10797.1	
HYDRO POWER	2106.1	
NUCLEAR POWER		
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL	513.13	
GAS	163.05	
OTHERS (BIOMASS, MUNICIPAL WASTE)	185	

REFINING CAPACITY

At the time of 2002

	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 2002  
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

## Original Table (Disaggregated Final Energy Demand) of Malaysia in 2002

Malaysia	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
	<b>1 INDUSTRIAL SECTOR</b>							
<b>1.1 IRON AND STEEL (*1)</b>								
TOTAL								ktoe
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>								
TOTAL								ktoe
<b>1.3 NON-FERROUS METALS (*3)</b>								
TOTAL								ktoe
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>								
TOTAL								ktoe
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>								
TOTAL								ktoe
<b>1.6 OTHER INDUSTRIES (*6)</b>								
COAL	1,722.75	ktonne	0.6304	ktoe/ktonne	1,086.00			ktoe
REFINERY GAS	5.51	ktonne	1.0888	ktoe/ktonne	6.00			ktoe
LPG	343.51	ktonne	1.0888	ktoe/ktonne	374.00			ktoe
MOGAS	4.76	ktonne	1.0507	ktoe/ktonne	5.00			ktoe
KEROSENE	26.15	ktonne	1.0325	ktoe/ktonne	27.00			ktoe
DIESEL OIL	3,217.25	ktonne	1.0158	ktoe/ktonne	3,268.00			ktoe
FUEL OIL	1,213.88	ktonne	0.9919	ktoe/ktonne	1,204.00			ktoe
NATURAL GAS	145,842.87	mmscf	0.0262	ktoe/mmscf	3,824.00			ktoe
ELECTRICITY	35,552.38	GWh	0.0860	ktoe/GWh	3,059.00			ktoe
TOTAL					12,853.00			ktoe
<b>2 TRANSPORTATION SECTOR</b>								
<b>2.1 AIR (*7)</b>								
JET FUEL	1,728.83	ktonne	1.0325	ktoe/ktonne	1,785.00			ktoe
TOTAL					1,785.00			ktoe
<b>2.2 ROAD</b>								
MOGAS	6,612.72	ktonne	1.0507	ktoe/ktonne	6,948.00			ktoe
DIESEL OIL	4,532.73	ktonne	1.0325	ktoe/ktonne	4,680.00			ktoe
NATURAL GAS	28.23	ktonne	0.9919	ktoe/ktonne	28.00			ktoe
TOTAL					11,656.00			ktoe
<b>2.3 RAIL</b>								
ELECTRICITY	46.49	GWh	0.0860	ktoe/GWh	4.00			ktoe
TOTAL					4.00			ktoe
<b>2.4 INTERNAL NAVIGATION</b>								
FUEL OIL	4.03	ktonne	0.9919	ktoe/ktonne	4.00			ktoe
TOTAL					4.00			ktoe
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>								
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>								
LPG	17,949.36	GJ	0.0239	ktoe/GJ	429.00			ktoe
FUEL OIL	384.13	ktonne	0.9919	ktoe/ktonne	381.00			ktoe
NATURAL GAS	419.53	mmscf	0.0262	ktoe/mmscf	11.00			ktoe
ELECTRICITY	19,734.53	GWh	0.0860	ktoe/GWh	1,698.00			ktoe
TOTAL					2,519.00			ktoe
<b>3.2 RESIDENTIAL</b>								
LPG	26,652.08	GJ	0.0239	ktoe/GJ	637.00			ktoe
KEROSENE	62.95	ktonne	1.0325	ktoe/ktonne	65.00			ktoe
NATURAL GAS	152.56	mmscf	0.0262	ktoe/mmscf	4.00			ktoe
ELECTRICITY	13,493.40	GWh	0.0860	ktoe/GWh	1,161.00			ktoe
TOTAL					1,867.00			ktoe



**Original Table (Energy Price) of Malaysia in 2002**  
**Year: 2002**

Malaysia	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
NATURAL GAS (LNG)			
<b>WHOLESALE PRICES</b>			
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
<b>CONSUMER PRICES</b>			
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	1.33	
ELECTRICITY (RESIDENTIAL)	sen/kWh	23.80	Average Domestic

## Original Table (Quarterly) of Malaysia in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	<b>1st quarter</b>	31	1,175	39	194
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	<b>2nd quarter</b>	49	2,468	41	43
	JUL.				
	AUG.				
	SEP.				
	<b>3rd quarter</b>				
	OCT.				
	NOV.				
	DEC.				
	<b>4th quarter</b>				

Oil		Unit: 1,000bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.							
	FEB.							
	MAR.							
	<b>1st quarter</b>	66,947	12,588	34,236	1,413	11,570	16,130	1,392
	APR.							
	MAY.							
	JUN.							
	<b>2nd quarter</b>	72,249	18,611	35,164	485	12,466	14,727	-112
	JUL.							
	AUG.							
	SEP.							
	<b>3rd quarter</b>							
	OCT.							
	NOV.							
	DEC.							
	<b>4th quarter</b>							

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

		Natural Gas ( or LNG)				Unit: Mft <sup>3</sup>
		Production	Imports	Exports	Stock Changes	
2003	JAN.	-	-	-	-	-
	FEB.	-	-	-	-	-
	MAR.	-	-	-	-	-
	<b>1st quarter</b>	521,932	14,390	14,153		-
	APR.	-	-	-	-	-
	MAY.	-	-	-	-	-
	JUN.	-	-	-	-	-
	<b>2nd quarter</b>	493,278	15,201	14,462		-
	JUL.					
	AUG.					
	SEP.					
	<b>3rd quarter</b>					
	OCT.					
	NOV.					
	DEC.					
	<b>4th quarter</b>					

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	<b>1st quarter</b>	18,659	17,089	1,132	-	438	-	48
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	<b>2nd quarter</b>	18,581	16,914	1,132	-	535	-	22
	JUL.							
	AUG.							
	SEP.							
	<b>3rd quarter</b>							
	OCT.							
	NOV.							
	DEC.							
	<b>4th quarter</b>							

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 2001

	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
<b>1 Indigenous Production</b>	5,331	-	165,982	-	-	-	-	-	-
<b>2 Import</b>	2,088	261	-	14,486	6,070	-	-	94	324
<b>3 Export</b>	-4	-1	-88,982	-4,704	-3,248	-	-	-123	-474
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-394	223	-1,878	52	-41	-	-	-26	34
<b>6 Total Primary Energy Supply</b>	7,021	483	75,122	9,834	2,781	-	-	-54	-115
<b>7 Public Electricity</b>	-5,422	-	-	-22,303	-	-	-	-	-444
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-3,158	12,571	3,890	-	-	58	-
<b>10 Petroleum Refineries</b>	-	-	-70,359	65,080	19,108	-	-	2,840	14,134
<b>11 Coal Transformation</b>	-1,414	1,308	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-24	-731	-4,994	-573	-	-	0	-589
<b>13 Discrepancy</b>	-128	0	-874	-462	26	-	-	-54	-56
<b>14 Total Final Energy Consumption</b>	57	1,768	-	59,726	25,231	-	-	2,790	12,929
<b>15 Industry Sector</b>	57	1,768	-	6,385	-	-	-	52	1,002
<b>16 Transport Sector</b>	-	-	-	38,373	24,266	-	-	2,699	10,061
<b>17 Other Sector</b>	-	-	-	10,404	-	-	-	39	1,867
<b>18 Agriculture</b>	-	-	-	1,994	-	-	-	1	1,793
<b>19 Residential &amp; Commercial</b>	-	-	-	8,410	-	-	-	38	73
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	4,537	965	-	-	0	-

## Energy Balance Table of Mexico 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
<b>1 Indigenous Production</b>	5,261	-	165,304	-	-	-	-	-	-
<b>2 Import</b>	3,662	252	-	9,896	4,178	-	-	34	835
<b>3 Export</b>	-2	-1	-85,074	-7,633	-3,084	-	-	-310	-387
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-1,367	454	-2,816	-219	-173	-	-	2	27
<b>6 Total Primary Energy Supply</b>	7,554	705	77,414	2,044	920	-	-	-274	475
<b>7 Public Electricity</b>	-6,308	-	-	-19,173	-	-	-	-	-363
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-2,829	12,500	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-73,973	69,671	21,746	-	-	2,813	13,426
<b>11 Coal Transformation</b>	-994	919	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-18	-707	-4,948	-547	-	-	-1	-554
<b>13 Discrepancy</b>	-144	0	95	-572	3,782	-	-	142	-225
<b>14 Total Final Energy Consumption</b>	108	1,607	-	59,522	25,901	-	-	2,681	12,759
<b>15 Industry Sector</b>	108	1,607	-	5,700	-	-	-	40	971
<b>16 Transport Sector</b>	-	-	-	38,921	24,911	-	-	2,601	9,987
<b>17 Other Sector</b>	-	-	-	10,358	-	-	-	39	1,801
<b>18 Agriculture</b>	-	-	-	1,921	-	-	-	1	1,730
<b>19 Residential &amp; Commercial</b>	-	-	-	8,436	-	-	-	38	72
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	4,516	990	-	-	0	-

Energy Balance Table of Mexico in 2001 (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
-	-	-	-	41,751	-	2,408	2,296	4,715	8,275	-	-	230,758
4,748	3,249	-	-	3,191	-	-	-	-	-	28	-	20,055
-532	-102	-	-225	-208	-	-	-	-	-	-23	-	-93,922
-	-	-	-	-	-	-	-	-	-	-	-	-
72	23	-	-10	-3,579	-	-	-	-	-24	-	-	-5,601
4,287	3,170	-	-234	41,154	-	2,408	2,296	4,715	8,250	5	-	151,289
-21,859	-	-	-	-9,563	-	-2,408	-2,296	-4,715	-	16,958	-	-29,748
-	-	-	-	-	-	-	-	-	-	-	-	-
26	6,691	-	1,905	-11,642	-	-	-	-	-	-	-	-2,230
24,289	905	1,631	2,174	-	-	-	-	-	-	-	-	-5,280
-	-	-	-	-	-	-	-	-	-	-	-	-106
-2,004	-197	-1,631	-	-11,335	-	-	-	-	-	-3,462	-	-20,546
-132	27	-	-273	2,401	-	-	-	-	0	90	-	1,027
4,608	10,596	-	3,572	11,014	-	-	-	-	8,250	13,591	-	94,406
4,415	918	-	-	9,748	-	-	-	-	2,084	7,996	-	28,038
193	1,154	-	-	-	-	-	-	-	-	97	-	38,470
-	8,498	-	-	710	-	-	-	-	6,053	5,498	-	22,666
-	199	-	-	-	-	-	-	-	-	642	-	2,635
-	8,299	-	-	710	-	-	-	-	6,053	4,857	-	20,030
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	3,572	261	-	-	-	-	113	-	-	4,911

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	-	-	6,302	-	-	-	-	-	46	-	20,157
-3,683	-12	-	-156	-39	-	-	-	-	-	-30	-	-92,778
-	-	-	-	-	-	-	-	-	-	-	-	-
-125	82	-	-32	-2,765	-	-	-	-	-23	-	-	-6,736
-2,264	3,375	-	-188	44,523	-	2,138	2,540	4,642	8,187	16	-	149,762
-18,811	-	-	-	-12,636	-	-2,138	-2,540	-4,642	-	17,305	-	-30,132
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	12,500	-11,869	-	-	-	-	-	-	-	-2,199
27,140	1,021	1,565	1,960	-	-	-	-	-	-	-	-	-4,302
-	-	-	-	-	-	-	-	-	-	-	-	-75
-2,148	-133	-1,565	-	-12,140	-	-	-	-	-	-3,576	-	-21,388
-95	6,570	-	-10,746	4,296	-	-	-	-	0	185	-	3,860
3,823	10,833	-	3,526	12,174	-	-	-	-	8,187	13,929	-	95,527
3,709	980	-	-	10,773	-	-	-	-	2,013	8,255	-	28,456
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
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	3,526	303	-	-	-	-	81	-	-	4,899

## Major Energy Indicators of Mexico

	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	97,158	105,852	106,787	109,215	108,508	114,698	116,206	122,251	122,448
Indigenous Production	149,022	198,376	196,722	192,211	181,499	190,144	188,572	190,024	191,890
Import	1,792	997	1,524	2,725	3,227	3,702	4,297	6,620	5,860
Export	-52,824	-86,930	-87,291	-82,145	-73,946	-76,280	-75,598	-72,003	-71,597
Final Energy Consumption	65,089	72,716	74,208	77,200	74,774	78,161	78,584	82,011	84,432
Industry	18,331	25,662	24,746	26,030	23,638	25,509	24,387	24,623	26,284
Transport	23,518	23,288	24,580	24,850	24,690	25,306	25,607	28,266	30,460
Residential & Commercial	12,963	14,048	14,436	14,864	14,913	15,359	15,566	15,879	16,747
Agriculture	2,288	2,160	2,149	2,206	2,191	2,348	2,455	2,298	2,211
<b>Coal, Coal Products</b>									
Primary Energy Supply	2,355	2,813	2,867	3,205	3,453	3,428	3,237	3,564	3,466
Indigenous Production	1,725	2,594	2,826	2,901	3,141	3,486	3,112	3,344	3,386
Import	642	226	210	579	336	115	143	185	209
Export	-50	-	-	-60	-16	-36	-84	-34	-6
Transformation Sector	-816	-894	-964	-1,276	-1,981	-1,847	-2,091	-1,946	-1,973
Power Generation	-	-570	-738	-906	-1,469	-1,682	-1,842	-1,866	-1,816
Final Energy Consumption	1,549	1,529	1,560	1,625	1,550	1,662	1,639	1,610	1,553
Industry	1,549	1,529	1,539	1,612	1,550	1,660	1,637	1,591	1,534
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	58,310	59,342	65,391	67,010	63,467	67,359	67,859	69,377	69,264
Indigenous Production	102,752	141,994	146,130	142,807	132,276	139,067	137,914	138,044	138,560
Import	-	-	-	-	-	-	-	-	-
Export	-43,934	-80,848	-80,537	-75,453	-68,145	-71,450	-69,617	-67,921	-66,722
Transformation Sector	-53,022	-60,309	-66,554	-67,622	-64,753	-67,062	-67,733	-69,464	-69,213
Petroleum Refineries	-53,007	-57,822	-62,803	-63,633	-61,271	-63,492	-63,904	-65,323	-65,881
<b>Petroleum Products</b>									
Primary Energy Supply	-1,507	-3,088	-4,497	-4,913	-2,418	-1,426	-1,093	1,364	570
Import	1,097	731	1,270	2,099	2,838	3,527	4,086	5,998	5,265
Export	-2,286	-4,208	-5,474	-6,612	-5,660	-4,618	-5,725	-3,882	-4,814
Transformation Sector	40,534	45,206	49,403	51,973	48,833	49,619	49,929	50,944	52,768
Power Generation	-9,784	-11,366	-12,280	-12,579	-13,384	-14,749	-15,339	-16,244	-16,122
Petroleum Refineries	48,726	52,551	57,308	59,384	57,145	58,749	58,377	60,052	63,630
Final Energy Consumption	39,064	42,080	44,906	47,103	46,415	48,193	48,837	52,308	53,338
Industry	5,251	5,468	6,053	7,065	6,536	7,186	6,555	7,406	7,757
Transport	23,481	23,243	24,526	24,794	24,628	25,241	25,539	28,199	30,396
Residential & Commercial	5,491	6,197	6,329	6,594	6,454	6,822	6,866	6,890	7,511
Agriculture	1,966	1,779	1,750	1,780	1,725	1,832	1,904	1,677	1,634
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	28,582	36,564	32,370	32,817	31,760	32,357	32,999	34,384	34,555
Indigenous Production	35,137	43,524	37,063	35,362	33,677	34,403	34,148	34,927	35,279
Import	-	40	43	35	44	49	53	385	370
Export	-6,555	-1,868	-1,273	-	-	-	-	-	-
Transformation Sector	-15,472	-20,486	-17,984	-18,315	-18,948	-18,492	-19,497	-21,381	-21,227
Power Generation	-2,837	-2,327	-1,866	-1,957	-2,548	-2,749	-2,557	-2,699	-3,432
Final Energy Consumption	12,840	16,471	14,633	14,971	12,812	13,865	13,502	13,003	14,164
Industry	7,532	14,190	12,248	12,245	10,211	10,817	10,354	9,547	10,827
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	470	441	616	633	709	685	720	774	810
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	5,320	6,433	6,835	7,339	7,684	8,280	8,761	9,465	9,823
Thermal	3,880	4,664	4,819	5,096	5,975	6,715	6,974	7,353	7,564
Hydro	1,439	1,770	2,016	2,243	1,709	1,565	1,786	2,081	2,006
Nuclear	-	-	-	-	-	-	-	32	253
Final Energy Consumption	4,497	5,341	5,686	6,051	6,261	6,658	7,039	7,611	7,921
Industry	2,458	2,904	3,168	3,383	3,459	3,724	3,963	4,256	4,425
Transport	37	45	53	56	61	65	68	66	65
Residential & Commercial	1,680	2,010	2,065	2,186	2,275	2,353	2,457	2,668	2,855
Agriculture	322	382	399	427	465	516	551	620	577

## Major Energy Indicators of Mexico (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
127,219	128,626	128,450	134,907	130,101	136,540	142,136	145,632	147,964	152,590	151,289	149,762	
198,353	198,098	198,792	196,950	193,847	211,961	222,389	226,907	222,896	228,054	230,758	229,119	
8,290	10,888	9,785	10,924	9,014	10,080	16,440	18,541	17,566	20,538	20,055	20,157	
-76,120	-77,285	-77,936	-72,097	-71,948	-82,933	-92,543	-94,137	-89,132	-92,137	-93,922	-92,778	
87,726	89,496	89,863	94,910	91,714	93,355	95,432	97,475	96,238	96,386	94,406	95,527	
26,761	26,676	27,205	28,755	29,986	30,627	30,759	31,537	29,664	29,587	28,038	28,456	
32,489	32,778	33,512	35,152	33,416	33,882	35,298	36,471	36,966	38,553	38,470	39,019	
17,325	18,380	19,008	19,655	19,493	20,009	20,066	20,749	19,227	19,959	20,030	20,302	
2,242	2,178	2,210	2,175	2,234	2,421	2,553	2,545	2,792	2,759	2,635	2,542	
3,291	3,521	4,038	4,972	5,563	6,389	6,598	6,667	6,780	7,011	7,504	8,259	
3,074	2,855	3,090	4,180	4,125	4,566	4,525	4,762	4,869	5,415	5,331	5,261	
75	542	527	571	1,088	1,197	1,662	1,735	1,658	1,950	2,349	3,914	
-19	-	-3	-0	-1	-9	-1	-2	-39	-3	-5	-2	
-2,045	-2,063	-2,590	-3,170	-3,464	-4,210	-4,243	-4,346	-4,407	-4,515	-5,551	-6,400	
-1,874	-1,944	-2,467	-3,063	-3,347	-4,072	-4,097	-4,206	-4,268	-4,372	-5,422	-6,308	
1,343	1,534	1,561	1,765	1,948	2,053	2,198	2,209	2,187	1,857	1,824	1,715	
1,328	1,509	1,524	1,690	1,922	2,049	2,194	2,206	2,187	1,857	1,824	1,715	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
72,568	71,827	72,756	73,748	69,572	69,377	69,582	71,607	74,179	76,169	75,122	77,414	
145,944	145,967	143,585	140,841	136,209	148,715	157,897	160,206	154,686	161,233	165,982	165,304	
-	-	-	-	-	-	-	-	-	-	-	-	
-71,512	-71,557	-70,004	-66,911	-66,146	-78,407	-87,892	-88,876	-81,096	-86,728	-88,982	-85,074	
-71,945	-71,856	-72,987	-73,338	-68,947	-69,097	-69,265	-71,618	-73,493	-75,666	-74,248	-77,509	
-66,991	-66,893	-68,236	-69,505	-64,883	-64,855	-64,898	-67,428	-72,702	-71,922	-70,359	-73,973	
1,908	3,221	479	4,528	1,582	4,129	9,140	10,461	8,095	10,393	9,834	2,044	
6,765	8,087	8,343	9,216	6,392	8,068	13,750	15,441	14,421	16,097	14,486	9,896	
-4,416	-5,553	-7,716	-4,850	-5,449	-4,093	-4,328	-4,971	-6,805	-5,183	-4,704	-7,633	
53,626	54,211	56,771	56,298	53,870	53,249	50,467	50,622	53,600	50,841	50,353	58,050	
-16,309	-15,970	-16,175	-19,284	-16,886	-17,395	-19,973	-22,044	-21,617	-23,401	-22,303	-19,173	
65,537	65,015	66,725	68,228	63,745	63,798	63,532	66,466	81,078	79,841	65,080	69,671	
55,534	57,432	57,250	60,826	55,452	57,378	59,607	61,033	60,818	60,696	59,726	59,522	
7,262	7,473	7,334	7,467	6,544	7,527	7,699	7,897	7,102	6,780	6,385	5,700	
32,419	32,703	33,435	35,071	33,332	33,796	35,212	36,385	36,879	38,458	38,373	38,921	
7,791	8,506	8,852	9,333	9,194	9,603	9,513	9,982	8,320	8,622	8,410	8,436	
1,683	1,690	1,701	1,611	1,659	1,773	1,895	1,879	2,104	2,080	1,994	1,921	
34,222	34,273	34,826	36,552	36,126	39,048	39,055	39,112	40,420	40,694	41,154	44,523	
33,949	33,367	35,634	36,721	36,154	41,060	42,295	44,252	44,874	43,136	41,751	41,024	
1,397	2,175	837	1,039	1,434	696	898	1,235	1,430	2,399	3,191	6,302	
-	-	-40	-166	-185	-313	-317	-282	-1,180	-207	-208	-39	
-19,224	-19,752	-20,335	-23,313	-21,671	-24,253	-25,790	-28,066	-29,369	-32,614	-32,541	-36,645	
-4,033	-3,740	-3,662	-4,301	-4,428	-4,570	-4,965	-5,879	-6,520	-7,726	-9,563	-12,636	
14,998	14,521	14,490	15,365	16,683	15,566	14,297	14,170	12,576	12,264	11,014	12,174	
11,675	11,301	11,633	12,793	14,156	13,036	12,066	12,215	10,893	10,943	9,748	10,773	
-	-	-	-	-	-	-	-	-	-	-	-	
868	895	959	853	748	858	840	770	611	656	710	817	
-	-	-	-	-	-	-	-	-	-	-	-	
10,175	10,458	10,881	11,825	12,239	13,058	13,874	14,699	15,556	16,460	16,958	17,305	
7,942	7,878	8,201	9,736	9,146	9,677	10,765	11,786	11,883	12,893	13,793	14,329	
1,869	2,243	2,255	1,724	2,367	2,703	2,167	2,116	2,813	2,866	2,408	2,138	
365	337	424	364	726	677	943	797	860	701	758	838	
8,147	8,388	8,707	9,418	9,748	10,451	11,198	11,796	12,467	13,425	13,591	13,929	
4,486	4,542	4,660	5,083	5,357	6,028	6,618	6,971	7,414	8,034	7,996	8,255	
69	75	77	81	84	85	86	86	87	95	97	98	
3,033	3,283	3,460	3,691	3,731	3,690	3,836	4,073	4,279	4,617	4,857	4,956	
559	488	509	563	575	648	658	666	688	679	642	620	



## Major Economic Indicators of Mexico

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	67.57	72.35	73.91	75.47	77.02	78.57	80.12	81.67
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	221.77	229.65	237.94	244.11	234.95	239.31	242.29	252.46
Real Term (Billions of 1995 Price and 1995 PPP)	487.64	504.97	523.20	536.77	516.62	526.21	532.76	555.13
Nominal (Billions of Current USD)	194.77	148.87	175.60	184.49	129.45	140.27	183.14	222.98
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	3,282	3,174	3,219	3,235	3,051	3,046	3,024	3,091
Real Term (1995 Price and 1995 PPP)	7,217	6,979	7,079	7,113	6,708	6,698	6,650	6,797
Nominal (Current USD)	2,883	2,058	2,376	2,445	1,681	1,785	2,286	2,730
Nominal GDP & its Components (Billions of Current MXN) *1								
Gross Domestic Product	4.47	17.88	29.47	47.39	79.19	193.31	416.31	548.86
Household Final Consumption Expenditure, etc.	2.91	10.88	18.59	30.57	54.21	127.27	281.57	377.91
General Government Final Consumption Expenditure	0.45	1.57	2.72	4.37	7.21	17.00	35.03	45.38
Gross Fixed Capital Formation	1.11	3.14	5.29	9.05	15.41	35.67	77.11	94.67
Stock Change	0.11	0.57	0.57	0.99	-0.73	1.57	16.81	31.25
Exports of Goods and Services	0.48	3.40	5.12	7.31	13.73	37.69	82.96	104.27
Imports of Goods and Services	0.58	1.68	2.82	4.90	10.64	25.88	77.17	104.62
Real GDP & its Components (Billions of 1993 MXN) *1								
Gross Domestic Product	953.81	987.71	1,023.37	1,049.91	1,010.50	1,029.25	1,042.07	1,085.82
Household Final Consumption Expenditure, etc.	679.51	673.43	695.37	718.28	699.72	698.78	711.45	763.27
General Government Final Consumption Expenditure	94.53	109.25	116.45	117.50	119.24	117.81	119.32	121.94
Gross Fixed Capital Formation	219.09	151.97	161.73	174.43	153.85	153.67	162.55	171.90
Stock Change	47.63	15.53	15.92	23.61	5.69	14.99	25.87	19.49
Exports of Goods and Services	75.75	118.10	124.89	119.32	124.68	136.51	144.38	152.55
Imports of Goods and Services	144.42	69.95	82.41	91.46	84.52	88.87	121.50	143.33
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	6.4	6.6	6.5	6.6	6.7	6.7	6.3	6.1
Industry	25.1	23.2	23.5	24.1	23.7	24.0	24.3	24.7
Services, etc.	59.1	61.5	61.4	60.6	61.6	61.3	61.4	61.2
Industrial Production Index (2000=100) *2	56.9	54.3	57.0	60.1	56.6	58.2	59.8	63.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	18.031	25.953	29.101	26.757	21.804	27.600	30.691	35.171
Imports, c.i.f.	22.144	12.476	16.691	19.116	17.573	19.697	29.402	36.400
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-3.056	14.105	13.186	8.399	5.019	8.786	2.611	0.405
Current Account	-10.422	5.866	4.183	0.800	-1.377	4.247	-2.374	-5.825
Overall Balance	0.817	-0.525	2.149	-2.729	-0.481	4.134	-10.062	-0.211
Foreign Exchange Rate (MXN/USD) *1	0.0230	0.1201	0.1678	0.2569	0.6118	1.3782	2.2731	2.4615
Purchasing Power Parity (MXN/International Dollar) *1	0.0160	0.0497	0.0766	0.1174	0.1974	0.4637	0.9627	1.1761
Price Indices								
GDP Deflator (1993=100) *3	0.5	1.8	2.9	4.5	7.8	18.8	39.9	50.5
Wholesale Price Index (2000=100) *2	0.3	0.6	1.0	1.6	3.1	7.4	15.2	16.9
Consumer Price Index (2000=100) *2	0.1	0.5	0.8	1.3	2.5	5.7	12.2	14.7
Growth Rate (%)								
Real GDP *3	9.23	-4.20	3.61	2.59	-3.75	1.86	1.25	4.20
Population *3	2.51	2.22	2.15	2.10	2.06	2.01	1.97	1.94
Price *2								
Wholesale Price Index	24.5	97.9	66.4	56.6	86.7	141.4	105.3	11.5
Consumer Price Index	26.4	101.8	65.5	57.7	86.2	131.8	114.2	20.0

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"

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

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Mexico (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
83.23	84.79	86.37	87.95	89.55	91.15	92.57	93.93	95.25	96.58	97.97	99.38	100.82
265.26	276.46	286.49	292.08	304.97	286.17	300.91	321.29	337.45	349.68	372.54	371.37	374.73
583.27	607.89	629.95	642.24	670.60	629.24	661.67	706.47	742.01	768.89	819.16	816.60	823.98
262.71	314.45	363.61	403.19	420.77	286.17	332.34	400.87	421.01	480.49	580.76	623.89	637.21
3,187	3,260	3,317	3,321	3,406	3,140	3,251	3,421	3,543	3,620	3,803	3,737	3,717
7,008	7,169	7,294	7,302	7,489	6,904	7,148	7,522	7,790	7,961	8,362	8,217	8,173
3,157	3,708	4,210	4,584	4,699	3,140	3,590	4,268	4,420	4,975	5,928	6,278	6,320
738.90	949.15	1,125.33	1,256.20	1,420.16	1,837.02	2,525.58	3,174.28	3,846.35	4,593.69	5,491.37	5,828.59	6,152.83
514.12	669.16	808.12	903.17	1,016.13	1,232.00	1,646.26	2,042.08	2,593.35	3,084.14	3,683.74	4,056.83	4,304.56
61.95	86.16	111.75	138.56	164.16	191.98	243.71	314.62	399.96	506.46	609.72	686.03	723.51
132.11	177.04	220.55	233.18	274.86	296.71	451.08	619.49	804.00	973.80	1,174.12	1,144.85	1,161.68
38.88	44.38	41.56	30.60	33.54	67.39	132.48	201.46	131.41	103.51	130.30	72.76	84.98
137.44	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	1,673.47
145.60	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	1,795.38
1,140.85	1,189.02	1,232.16	1,256.20	1,311.66	1,230.77	1,294.20	1,381.84	1,451.35	1,503.93	1,602.25	1,597.23	1,611.67
812.34	850.34	890.13	903.17	944.55	854.69	873.66	930.15	980.56	1,022.77	1,107.04	1,137.31	1,151.03
126.01	132.84	135.31	138.56	142.52	140.64	139.61	143.65	146.92	153.84	156.96	155.05	153.06
194.46	215.83	239.23	233.18	252.75	179.44	208.86	252.80	278.79	300.28	334.38	314.92	310.94
19.04	18.89	26.75	30.60	38.26	10.36	29.66	44.96	50.27	40.09	44.49	44.11	49.84
160.64	168.79	177.20	191.54	225.63	293.76	347.31	384.53	431.04	484.57	564.15	543.75	551.59
171.63	197.68	236.46	240.86	292.05	248.12	304.90	374.25	436.23	497.61	604.48	595.36	604.79
6.1	6.0	5.7	5.8	5.6	6.0	5.9	5.6	5.5	5.4	5.0	5.2	5.1
25.1	24.9	25.1	24.7	24.8	24.3	25.5	26.1	26.4	26.5	26.4	25.6	25.3
60.7	61.1	61.2	61.5	61.6	61.6	60.5	60.3	60.1	60.1	60.5	61.2	61.5
67.7	70.0	73.0	73.3	76.8	70.8	77.9	85.1	90.5	94.3	100.0	96.6	96.3
40.711	42.688	46.196	51.886	60.882	79.542	96.000	110.431	117.460	136.391	166.455	158.443	160.682
43.548	52.315	65.050	68.439	83.075	75.858	93.674	114.846	130.948	146.084	179.464	173.040	173.087
-0.881	-7.279	-15.934	-13.481	-18.464	7.089	6.533	0.623	-7.914	-5.584	-8.003	-9.954	-7.916
-7.451	-14.888	-24.442	-23.400	-29.662	-1.576	-2.529	-7.696	-16.097	-14.039	-18.212	-18.218	-14.099
2.218	7.973	1.745	7.232	-17.199	-16.312	1.948	20.460	3.170	4.250	7.126	7.314	7.359
2.8126	3.0184	3.0949	3.1156	3.3751	6.4194	7.5994	7.9185	9.1360	9.5604	9.4556	9.3423	9.6560
1.4569	1.7423	1.9478	2.0787	2.1991	2.9194	3.7617	4.3884	5.0026	5.7105	6.2843	6.5576	6.8019
64.8	79.8	91.3	100.0	108.3	149.3	195.1	229.7	265.0	305.4	342.7	364.9	381.8
20.6	25.1	28.1	30.2	32.1	44.5	59.5	70.0	81.2	92.7	100.0	105.0	110.4
18.6	22.8	26.3	28.9	30.9	41.7	56.0	67.6	78.3	91.3	100.0	106.4	111.7
5.07	4.22	3.63	1.95	4.42	-6.17	5.15	6.77	5.03	3.62	6.54	-0.31	0.90
1.91	1.88	1.86	1.84	1.81	1.79	1.56	1.46	1.41	1.40	1.43	1.44	1.45
21.7	21.6	12.3	7.4	6.1	38.6	33.9	17.5	16.0	14.2	7.8	5.0	5.1
26.7	22.7	15.5	9.8	7.0	35.0	34.4	20.6	15.9	16.6	9.5	6.4	5.0

## Original Table (Energy Demand and Supply) of Mexico in 2002

Year:2002

Mexico	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	10,984.21	kt	0.0201	PJ/kt	220.27	PJ
CRUDE OIL AND NGL	1,172.34	Mbbl	5.9035	PJ/Mbbl	6,920.96	PJ
CRUDE OIL	1,139.24	Mbbl	5.9680	PJ/Mbbl	6,798.98	PJ
NGL	33.10	Mbbl	3.6850	PJ/Mbbl	121.99	PJ
NATURAL GAS	4,505.47	Mm <sup>3</sup>	0.3812	PJ/Mm <sup>3</sup>	1,717.61	PJ
NOT ASSOCIATE	1,360.25	Mm <sup>3</sup>	0.3276	PJ/Mm <sup>3</sup>	445.65	PJ
ASSOCIATE	3,145.22	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	1,271.96	PJ
HYDRO POWER	24,862.35	GWh	0.0036	PJ/GWh	89.50	PJ
NUCLEAR POWER	9,747.12	GWh	0.0109	PJ/GWh	106.33	PJ
GEO THERMAL POWER	5,398.13	GWh	0.0360	PJ/GWh	194.33	PJ
OTHER POWER (WIND, TIDE, ETC.)	6.91	GWh	0.0036	PJ/GWh	0.02	PJ
OTHER COMMERCIAL	30,174.17	kt	0.0114	PJ/kt	343.73	PJ
SUGAR CANE BAGASSE	12,564.99	kt	0.0071	PJ/kt	88.65	PJ
WOOD	17,609.18	kt	0.0145	PJ/kt	255.09	PJ
TOTAL PRODUCTION					9,592.76	PJ
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						PJ
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						PJ
<b>STOCK CHANGE</b>						
COAL	-3,045.12	kt	0.0188	PJ/kt	-57.24	PJ
COKE	716.60	kt	0.0265	PJ/kt	19.01	PJ
CRUDE OIL AND NGL	-19.86	Mbbl	5.9377	PJ/Mbbl	-117.92	PJ
CRUDE OIL	-19.60	Mbbl	5.9680	PJ/Mbbl	-116.95	PJ
NGL	-0.26	Mbbl	3.6850	PJ/Mbbl	-0.97	PJ
LPG	0.92	Mbbl	3.7340	PJ/Mbbl	3.43	PJ
MOGAS	-1.43	Mbbl	5.0510	PJ/Mbbl	-7.24	PJ
KEROSENE	0.02	Mbbl	5.6020	PJ/Mbbl	0.09	PJ
DIESEL OIL	0.21	Mbbl	5.5610	PJ/Mbbl	1.14	PJ
FUEL OIL	-0.82	Mbbl	6.3920	PJ/Mbbl	-5.24	PJ
OTHER PETROLEUM PRODUCTS	-1.35	PJ	1.0000	PJ/PJ	-1.35	PJ
OTHER COMMERCIAL	-137.21	kt	0.0071	PJ/kt	-0.97	PJ
SUGAR CANE BAGASSE	-137.21	kt	0.0071	PJ/kt	-0.97	PJ
NATURAL GAS	-286.22	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	-115.75	PJ
ASSOCIATE	-286.22	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	-115.75	PJ
TOTAL STOCK CHANGE					-282.04	PJ
<b>IMPORTS</b>						
COAL	8,156.90	kt	0.0188	PJ/kt	153.32	PJ
COKE	397.50	kt	0.0265	PJ/kt	10.54	PJ
LPG	37.07	Mbbl	3.7340	PJ/Mbbl	138.40	PJ
MOGAS	34.63	Mbbl	5.0510	PJ/Mbbl	174.91	PJ
KEROSENE	0.25	Mbbl	5.6020	PJ/Mbbl	1.41	PJ
DIESEL OIL	6.29	Mbbl	5.5610	PJ/Mbbl	34.95	PJ
FUEL OIL	10.12	Mbbl	6.3920	PJ/Mbbl	64.66	PJ
NATURAL GAS	777.99	Mm <sup>3</sup>	0.3391	PJ/Mm <sup>3</sup>	263.84	PJ
ELECTRICITY	531.11	GWh	0.0036	PJ/GWh	1.91	PJ
TOTAL IMPORTS					843.94	PJ
<b>EXPORTS</b>						
COAL	3.72	kt	0.0188	PJ/kt	0.07	PJ
COKE	0.94	kt	0.0265	PJ/kt	0.03	PJ
CRUDE OIL	596.83	Mbbl	5.9680	PJ/Mbbl	3,561.89	PJ
LPG	0.14	Mbbl	3.7340	PJ/Mbbl	0.52	PJ
MOGAS	25.57	Mbbl	5.0510	PJ/Mbbl	129.14	PJ
KEROSENE	2.32	Mbbl	5.6020	PJ/Mbbl	12.97	PJ
DIESEL OIL	2.92	Mbbl	5.5610	PJ/Mbbl	16.22	PJ
FUEL OIL	24.12	Mbbl	6.3920	PJ/Mbbl	154.19	PJ
OTHER PETROLEUM PRODUCTS	6.55	PJ	1.0000	PJ/PJ	6.55	PJ
NATURAL GAS	4.79	Mm <sup>3</sup>	0.3391	PJ/Mm <sup>3</sup>	1.62	PJ
ELECTRICITY	343.89	GWh	0.0036	PJ/GWh	1.24	PJ
TOTAL EXPORTS					3,884.44	PJ
<b>INTERNATIONAL MARINE BUNKERS</b>						
TOTAL PRIMARY ENERGY SUPPLY					6,270.23	PJ
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	1,771.66	kt	0.0235	PJ/kt	41.60	PJ
<b>REFINING</b>						
CRUDE OIL AND NGL	519.21	Mbbl	5.9651	PJ/Mbbl	3,097.12	PJ
CRUDE OIL	518.54	Mbbl	5.9680	PJ/Mbbl	3,094.66	PJ
NGL	0.67	Mbbl	3.6850	PJ/Mbbl	2.46	PJ
<b>GAS PROCESSING</b>						
<b>COAL</b>						
NGL	32.14	Mbbl	3.6850	PJ/Mbbl	118.45	PJ
NATURAL GAS	3,866.21	Mm <sup>3</sup>	0.3929	PJ/Mm <sup>3</sup>	1,518.89	PJ
NOT ASSOCIATE	581.34	Mm <sup>3</sup>	0.3276	PJ/Mm <sup>3</sup>	190.46	PJ
ASSOCIATE	3,284.87	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	1,328.43	PJ
<b>POWER GENERATION (NATIONAL, PUBLIC UTILITIES)</b>						
COAL	10,445.42	kt	0.0253	PJ/kt	264.10	PJ
DIESEL OIL	2.73	Mbbl	5.5610	PJ/Mbbl	15.18	PJ
FUEL OIL	123.21	Mbbl	6.3920	PJ/Mbbl	787.56	PJ

Original Table (Energy Demand and Supply) of Mexico in 2002 (Continued)

Year:2002

Mexico	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NATURAL GAS	1,559.95	Mm <sup>3</sup>	0.3391	PJ/Mm <sup>3</sup>	529.03	PJ
HYDRO POWER	24,862.35	GWh	0.0036	PJ/GWh	89.50	PJ
NUCLEAR POWER	9,747.12	GWh	0.0109	PJ/GWh	106.33	PJ
GEOHERMAL POWER	5,398.13	GWh	0.0360	PJ/GWh	194.33	PJ
OTHERS(WIND, TIDE, PHOTOV.)	6.91	GWh	0.0036	PJ/GWh	0.02	PJ
<b>POWER GENERATION (PRIVATE, AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	1,451.08	kt	0.0265	PJ/kt	38.48	PJ
<b>GAS RECOVERING</b>						
<b>REFINING</b>						
REFINERY GAS	65.51	PJ	1.0000	PJ/PJ	65.51	PJ
LPG	11.44	Mbbl	3.7340	PJ/Mbbl	42.73	PJ
MOGAS	180.25	Mbbl	5.0510	PJ/Mbbl	910.46	PJ
KEROSENE	21.03	Mbbl	5.6020	PJ/Mbbl	117.79	PJ
DIESEL OIL	101.09	Mbbl	5.5610	PJ/Mbbl	562.14	PJ
FUEL OIL	177.77	Mbbl	6.3920	PJ/Mbbl	1,136.30	PJ
OTHER PETROLEUM PRODUCTS	82.07	PJ	1.0000	PJ/PJ	82.07	PJ
<b>GAS PROCESSING</b>						
OTHER PETROLEUM PRODUCTS	523.34	PJ	1.0000	PJ/PJ	523.34	PJ
NATURAL GAS	3,013.46	Mm <sup>3</sup>	0.3391	PJ/Mm <sup>3</sup>	1,021.96	PJ
<b>POWER GENERATION (NATIONAL, PUBLIC UTILITIES)</b>	201,252.22	GWh	0.0036	PJ/GWh	724.51	PJ
THERMAL	161,237.71	GWh	0.0036	PJ/GWh	580.46	PJ
HYDRO POWER	24,862.35	GWh	0.0036	PJ/GWh	89.50	PJ
NUCLEAR POWER	9,747.12	GWh	0.0036	PJ/GWh	35.09	PJ
GEOHERMAL POWER	5,398.13	GWh	0.0036	PJ/GWh	19.43	PJ
OTHERS(WIND, TIDE, PHOTOV.)	6.91	GWh	0.0036	PJ/GWh	0.02	PJ
<b>POWER GENERATION (PRIVATE, AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COKE	28.09	kt	0.0265	PJ/kt	0.75	PJ
CRUDE OIL	5.05	Mbbl	5.8630	PJ/Mbbl	29.59	PJ
REFINERY GAS	65.51	PJ	1.0000	PJ/PJ	65.51	PJ
LPG	1.49	Mbbl	3.7340	PJ/Mbbl	5.56	PJ
MOGAS	4.54	Mbbl	5.0510	PJ/Mbbl	22.91	PJ
KEROSENE	0.01	Mbbl	5.6020	PJ/Mbbl	0.04	PJ
DIESEL OIL	4.17	Mbbl	5.5610	PJ/Mbbl	23.21	PJ
FUEL OIL	14.07	Mbbl	6.3920	PJ/Mbbl	89.92	PJ
NATURAL GAS	1,265.67	Mm <sup>3</sup>	0.4016	PJ/Mm <sup>3</sup>	508.29	PJ
NOT ASSOCIATE	46.37	Mm <sup>3</sup>	0.3276	PJ/Mm <sup>3</sup>	15.19	PJ
ASSOCIATE	1,219.30	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	493.10	PJ
ELECTRICITY	41,586.11	GWh	0.0036	PJ/GWh	149.71	PJ
TOTAL LOSSES AND OWN USE					895.49	PJ
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	193.16	kt	0.0235	PJ/kt	4.54	PJ
COKE	2,536.14	kt	0.0265	PJ/kt	67.26	PJ
LPG	121.47	Mbbl	3.7340	PJ/Mbbl	453.57	PJ
MOGAS	214.70	Mbbl	5.0510	PJ/Mbbl	1,084.43	PJ
KEROSENE	20.03	Mbbl	5.6020	PJ/Mbbl	112.23	PJ
DIESEL OIL	96.06	Mbbl	5.5610	PJ/Mbbl	534.18	PJ
FUEL OIL	25.04	Mbbl	6.3920	PJ/Mbbl	160.06	PJ
OTHER PETROLEUM PRODUCTS	147.62	PJ	1.0000	PJ/PJ	147.62	PJ
NATURAL GAS	1,398.24	Mm <sup>3</sup>	0.3645	PJ/Mm <sup>3</sup>	509.68	PJ
NOT ASSOCIATE	726.39	Mm <sup>3</sup>	0.3276	PJ/Mm <sup>3</sup>	237.98	PJ
ASSOCIATE	671.84	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	271.70	PJ
OTHER COMMERCIAL	30,036.96	kt	0.0114	PJ/kt	342.76	PJ
SUGAR CANE BAGASSE	12,427.78	kt	0.0071	PJ/kt	87.68	PJ
WOOD	17,609.18	kt	0.0145	PJ/kt	255.09	PJ
ELECTRICITY	162,000.00	GWh	0.0036	PJ/GWh	583.20	PJ
TOTAL					3,999.52	PJ
<b>AGRICULTURE</b>						
LPG	2.14	Mbbl	3.7340	PJ/Mbbl	7.98	PJ
KEROSENE	0.01	Mbbl	5.6020	PJ/Mbbl	0.04	PJ
DIESEL OIL	13.02	Mbbl	5.5610	PJ/Mbbl	72.42	PJ
ELECTRICITY	7,216.11	GWh	0.0036	PJ/GWh	25.98	PJ
TOTAL					106.41	PJ
<b>RESIDENTIAL, COMMERCIAL</b>						
LPG	93.36	Mbbl	3.7340	PJ/Mbbl	348.61	PJ
KEROSENE	0.28	Mbbl	5.6020	PJ/Mbbl	1.60	PJ
DIESEL OIL	0.54	Mbbl	5.5610	PJ/Mbbl	3.01	PJ
NATURAL GAS	93.85	Mm <sup>3</sup>	0.3645	PJ/Mm <sup>3</sup>	34.21	PJ
NOT ASSOCIATE	48.75	Mm <sup>3</sup>	0.3276	PJ/Mm <sup>3</sup>	15.97	PJ
ASSOCIATE	45.10	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	18.24	PJ
OTHER COMMERCIAL	17,609.18	kt	0.0145	PJ/kt	255.09	PJ
WOOD	17,609.18	kt	0.0145	PJ/kt	255.09	PJ
ELECTRICITY	57,635.83	GWh	0.0036	PJ/GWh	207.49	PJ
TOTAL					850.00	PJ
<b>OTHERS</b>						
TOTAL						PJ
<b>INDUSTRY</b>						
COAL	193.16	kt	0.0235	PJ/kt	4.54	PJ
COKE	2,536.14	kt	0.0265	PJ/kt	67.26	PJ

Original Table (Energy Demand and Supply) of Mexico in 2002 (Continued)

Year:2002

Mexico	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
LPG	10.98	Mbbl	3.7340	PJ/Mbbl	41.01	PJ
KEROSENE	0.30	Mbbl	5.6020	PJ/Mbbl	1.70	PJ
DIESEL OIL	7.31	Mbbl	5.5610	PJ/Mbbl	40.64	PJ
FUEL OIL	24.29	Mbbl	6.3920	PJ/Mbbl	155.29	PJ
NATURAL GAS	1,237.36	Mm <sup>3</sup>	0.3645	PJ/Mm <sup>3</sup>	451.04	PJ
NOT ASSOCIATE	642.82	Mm <sup>3</sup>	0.3276	PJ/Mm <sup>3</sup>	210.60	PJ
ASSOCIATE	594.54	Mm <sup>3</sup>	0.4044	PJ/Mm <sup>3</sup>	240.44	PJ
OTHER COMMERCIAL	11,947.98	kt	0.0071	PJ/kt	84.29	PJ
SUGAR CANE BAGASSE	11,947.98	kt	0.0071	PJ/kt	84.29	PJ
ELECTRICITY	96,008.06	GWh	0.0036	PJ/GWh	345.63	PJ
<b>TOTAL</b>					1,191.39	PJ
<b>TRANSPORT</b>						
LPG	14.67	Mbbl	3.7340	PJ/Mbbl	54.79	PJ
MOGAS	206.49	Mbbl	5.0510	PJ/Mbbl	1,042.99	PJ
KEROSENE	19.44	Mbbl	5.6020	PJ/Mbbl	108.89	PJ
DIESEL OIL	75.19	Mbbl	5.5610	PJ/Mbbl	418.12	PJ
FUEL OIL	0.74	Mbbl	6.3920	PJ/Mbbl	4.76	PJ
ELECTRICITY	1,140.00	GWh	0.0036	PJ/GWh	4.10	PJ
<b>TOTAL</b>					1,633.66	PJ
<b>NON-ENERGY</b>						
OTHER COMMERCIAL	479.80	kt	0.0071	PJ/kt	3.39	PJ
SUGAR CANE BAGASSE	479.80	kt	0.0071	PJ/kt	3.39	PJ
MOGAS	8.21	Mbbl	5.0510	PJ/Mbbl	41.44	PJ
KEROSENE	0.00	Mbbl	5.6020	PJ/Mbbl	0.01	PJ
OTHER PETROLEUM PRODUCTS	147.62	PJ	1.0000	PJ/PJ	147.62	PJ
NATURAL GAS	34.76	Mm <sup>3</sup>	0.3645	PJ/Mm <sup>3</sup>	12.67	PJ
<b>TOTAL</b>					205.13	PJ

## Original Table (Energy Demand and Supply) of Mexico in 2002 (Continued)

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	25,239	
COAL		
OIL		
GAS		
HYDRO POWER	9619	
NUCLEAR POWER	1365	
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	840	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

## REFINING CAPACITY

At the time of 2002

	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 2002  
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

## Original Table (Quarterly) of Mexico in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	N.A	N.A	N.A	N.A
	FEB.	N.A	N.A	N.A	N.A
	MAR.	N.A	N.A	N.A	N.A
	<b>1st quarter</b>	N.A	N.A	N.A	N.A
	APR.	N.A	N.A	N.A	N.A
	MAY.	N.A	N.A	N.A	N.A
	JUN.	N.A	N.A	N.A	N.A
	<b>2nd quarter</b>	N.A	N.A	N.A	N.A
	JUL.	N.A	N.A	N.A	N.A
	AUG.	N.A	N.A	N.A	N.A
	SEP.	N.A	N.A	N.A	N.A
	<b>3rd quarter</b>	N.A	N.A	N.A	N.A
	OCT.	N.A	N.A	N.A	N.A
	NOV.	N.A	N.A	N.A	N.A
	DEC.	N.A	N.A	N.A	N.A
	<b>4th quarter</b>	N.A	N.A	N.A	N.A
			-	-	-

Oil		Unit: 1,000bbl						
		Crude Oil			Petroleum Products			
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	3,334		1,961	26	327	236	N.A
	FEB.	3,329		1,886	-34	301	220	N.A
	MAR.	3,323		1,554	87	229	142	N.A
	<b>1st quarter</b>	9,986		5,401	79	858	598	N.A
	APR.	3,286		1,889	-53	155	164	N.A
	MAY.	3,324		1,666	59	226	144	N.A
	JUN.	3,400		1,801	113	185	179	N.A
	<b>2nd quarter</b>	10,010		5,356	119	566	488	N.A
	JUL.	3,404		1,866	-38	163	149	N.A
	AUG.	3,429		1,922	15	157	158	N.A
	SEP.	3,420		1,900	-17	169	152	N.A
	<b>3rd quarter</b>	10,254		5,689	-40	489	459	N.A
	OCT.	3,401		1,829	60	193	165	N.A
	NOV.	3,382		1,700	72	148	228	N.A
	DEC.	3,457		2,141	-91	150	191	N.A
	<b>4th quarter</b>	10,240		5,670	42	491	584	N.A
			40,490	-	22,116	200	2,403	2,129

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

Natural Gas ( or LNG)		Unit: 1,000m <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	4,206	905	-	-1
	FEB.	4,268	901	-	7
	MAR.	4,242	559	-	1
	<b>1st quarter</b>	12,716	2,365	-	7
	APR.	4,188	675	-	-5
	MAY.	4,242	934	-	8
	JUN.	4,261	1,005	-	-73
	<b>2nd quarter</b>	12,691	2,613	-	-70
	JUL.	4,393	884	-	4
	AUG.	4,430	961	-	-9
	SEP.	4,377	926	-	16
	<b>3rd quarter</b>	13,199	2,771	-	11
	OCT.	4,377	1,064	-	-4
	NOV.	4,275	1,099	-	3
	DEC.	4,466	1,043	-	-3
	<b>4th quarter</b>	13,118	3,206	-	-4
	51,724	10,955	-	-56	

Electricity		Unit: GWh					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	13,809	10,747	1,589	993	480	1	72
	FEB.	13,101	10,404	1,278	993	426	1	92
	MAR.	14,891	12,202	1,202	993	494	1	75
	<b>1st quarter</b>	41,800	33,354	4,069	2,979	1,399	3	239
	APR.	14,422	11,593	1,305	993	532	1	89
	MAY.	16,472	13,126	1,795	993	559	12	53
	JUN.	15,332	12,961	895	993	483	22	45
	<b>2nd quarter</b>	46,226	37,679	3,995	2,979	1,574	35	186
	JUL.	15,347	12,283	1,471	993	600	12	82
	AUG.	15,229	12,046	1,617	993	573	1	111
	SEP.	14,141	9,614	2,987	993	547	4	60
	<b>3rd quarter</b>	44,717	33,943	6,076	2,979	1,719	18	253
	OCT.	13,616	9,190	2,874	993	559	4	151
	NOV.	12,616	9,516	1,589	993	519	1	146
	DEC.	12,581	9,921	1,150	993	517	11	210
	<b>4th quarter</b>	38,814	28,627	5,614	2,979	1,595	16	507
	171,558	133,603	19,753	11,915	6,287	73	1,186	

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 2001

	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
<b>1 Indigenous Production</b>	2,162	-	1,576	266	-	-	-	-	-
<b>2 Import</b>	22	7	4,790	1,350	828	-	141	-	248
<b>3 Export</b>	-1,290	-1	-1,277	-149	-	-	-	-	-
<b>4 International Marine Bunkers</b>	-	-	-	-250	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-121	24	-10	-	-7	-	-12
<b>6 Total Primary Energy Supply</b>	894	6	4,968	1,241	819	-	133	-	236
<b>7 Public Electricity</b>	-337	-	-	-	-	-	-	-	-
<b>8 Autoproducers of Electricity</b>	-15	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-5,201	4,927	1,599	-	861	-	1,987
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-45	-	-	-213	-4	-	-2	-	0
<b>13 Discrepancy</b>	424	-6	234	-132	-95	-	-55	-	-133
<b>14 Total Final Energy Consumption</b>	920	-	-	5,824	2,320	-	938	-	2,090
<b>15 Industry Sector</b>	773	-	-	293	4	-	4	-	231
<b>16 Transport Sector</b>	2	-	-	4,841	2,286	-	909	-	1,530
<b>17 Other Sector</b>	146	-	-	445	30	-	25	-	330
<b>18 Agriculture</b>	13	-	-	301	27	-	4	-	271
<b>19 Residential &amp; Commercial</b>	132	-	-	143	3	-	21	-	59
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	245	-	-	-	-	-

## Energy Balance Table of New Zealand 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
<b>1 Indigenous Production</b>	2,713	-	1,442	259	-	-	-	-	-
<b>2 Import</b>	55	4	5,122	1,426	862	-	139	-	281
<b>3 Export</b>	-1,390	-1	-1,146	-222	-15	-	-4	-	-7
<b>4 International Marine Bunkers</b>	-	-	-	-328	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-44	161	130	-	61	-	29
<b>6 Total Primary Energy Supply</b>	1,378	3	5,373	1,296	977	-	195	-	303
<b>7 Public Electricity</b>	-338	-	-	-	-	-	-	-	-
<b>8 Autoproducers of Electricity</b>	-16	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-5,444	5,359	1,632	-	917	-	2,132
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-45	-	-	-219	-74	-	-38	-	-40
<b>13 Discrepancy</b>	-95	-3	70	-68	-6	-	-88	-	-73
<b>14 Total Final Energy Consumption</b>	884	-	-	6,368	2,529	-	988	-	2,322
<b>15 Industry Sector</b>	743	-	-	306	4	-	5	-	247
<b>16 Transport Sector</b>	2	-	-	5,301	2,492	-	964	-	1,721
<b>17 Other Sector</b>	139	-	-	509	33	-	19	-	354
<b>18 Agriculture</b>	14	-	-	372	30	-	4	-	303
<b>19 Residential &amp; Commercial</b>	125	-	-	137	3	-	15	-	52
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	252	-	-	-	-	-

Energy Balance Table of New Zealand in 2001 (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
-	266	-	-	5,319	-	1,859	-	3,027	1,282	-	-	15,492
-	-	-	132	-	-	-	-	-	-	-	-	6,169
-54	-95	-	-	-	-	-	-	-	-	-	-	-2,717
-250	-	-	-	-	-	-	-	-	-	-	-	-250
47	1	-	6	0	-	-	-	-	-	-	-	-97
<b>-257</b>	<b>172</b>	<b>-</b>	<b>138</b>	<b>5,319</b>	<b>-</b>	<b>1,859</b>	<b>-</b>	<b>3,027</b>	<b>1,282</b>	<b>-</b>	<b>-</b>	<b>18,597</b>
-	-	-	-	-1,998	-	-1,859	-	-2,536	-22	3,140	-	-3,611
-	-	-	-	-499	-	-	-	-35	-501	264	-	-785
-	-	-	-	-	-	-	-	-	-	-	-	-
364	-	-	116	-	-	-	-	-	-	-	-	-275
-	-	-	-	-	-	-	-	-	-	-	-	-
-28	-21	-	-159	-136	-	-	-	-143	-	-301	-	-839
5	-5	-	150	23	-	-	-	0	-50	-211	-	282
<b>84</b>	<b>147</b>	<b>-</b>	<b>245</b>	<b>2,708</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>313</b>	<b>710</b>	<b>2,893</b>	<b>-</b>	<b>13,369</b>
24	30	-	-	445	-	-	-	251	551	1,134	-	3,447
60	57	-	-	2	-	-	-	-	-	52	-	4,896
-	60	-	-	343	-	-	-	62	160	1,707	-	2,862
-	-	-	-	-	-	-	-	-	-	108	-	423
-	60	-	-	343	-	-	-	62	160	1,599	-	2,439
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	245	1,919	-	-	-	-	-	-	-	2,164

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	-	2,090	-	2,949	1,337	-	-	15,848
-	-	-	145	-	-	-	-	-	-	-	-	6,607
-120	-76	-	-	-	-	-	-	-	-	-	-	-2,760
-328	-	-	-	-	-	-	-	-	-	-	-	-328
-46	-	-	-13	0	-	-	-	-	-	-	-	117
<b>-494</b>	<b>183</b>	<b>-</b>	<b>132</b>	<b>5,058</b>	<b>-</b>	<b>2,090</b>	<b>-</b>	<b>2,949</b>	<b>1,337</b>	<b>-</b>	<b>-</b>	<b>19,484</b>
-	-	-	-	-1,495	-	-2,090	-	-2,447	-19	3,150	-	-3,238
-	-	-	-	-448	-	-	-	-41	-490	245	-	-749
-	-	-	-	-	-	-	-	-	-	-	-	-
568	-	-	110	-	-	-	-	-	-	-	-	-84
-	-	-	-	-	-	-	-	-	-	-	-	-
-37	-21	-	-10	-137	-	-	-	-143	-	-259	-	-803
84	-7	-	21	19	-	-	-	0	-86	-230	-	-392
<b>122</b>	<b>155</b>	<b>-</b>	<b>252</b>	<b>2,997</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>318</b>	<b>742</b>	<b>2,908</b>	<b>-</b>	<b>14,216</b>
25	26	-	-	489	-	-	-	258	582	1,135	-	3,512
62	61	-	-	4	-	-	-	-	-	42	-	5,349
35	68	-	-	450	-	-	-	60	160	1,731	-	3,048
35	-	-	-	-	-	-	-	-	-	149	-	535
-	68	-	-	450	-	-	-	60	160	1,582	-	2,513
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	252	2,055	-	-	-	-	-	-	-	2,307

## Major Energy Indicators of New Zealand

	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	9,501	10,782	11,732	11,968	12,715	12,620	12,401	13,540	14,182
Indigenous Production	6,031	7,983	9,154	10,037	11,130	10,613	11,129	11,982	12,351
Import	4,058	3,208	3,233	3,150	2,208	3,137	2,887	3,541	3,848
Export	-86	-148	-344	-1,036	-491	-662	-1,187	-1,756	-1,662
Final Energy Consumption	7,301	8,184	9,018	9,180	9,405	9,502	9,445	9,717	10,130
Industry	2,472	3,051	3,327	3,456	3,514	3,324	3,199	3,267	3,396
Transport	2,269	2,318	2,531	2,574	2,758	3,060	3,090	3,242	3,377
Residential & Commercial	1,964	2,060	2,034	2,054	2,051	2,029	2,069	2,096	2,080
Agriculture	448	441	451	447	431	425	404	402	433
<b>Coal, Coal Products</b>									
Primary Energy Supply	1,113	1,205	1,150	1,034	1,188	1,091	1,076	1,169	1,192
Indigenous Production	1,179	1,338	1,414	1,330	1,390	1,304	1,335	1,514	1,430
Import	-	1	1	1	1	1	1	1	3
Export	-66	-134	-266	-297	-202	-215	-260	-347	-240
Transformation Sector	-192	-284	-279	-278	-181	-258	-198	-128	-169
Power Generation	-127	-215	-226	-223	-125	-202	-157	-87	-119
Final Energy Consumption	851	899	917	907	927	954	984	1,023	1,070
Industry	556	620	680	661	707	742	779	818	859
Transport	2	2	2	2	2	2	2	2	2
Residential & Commercial	291	267	231	241	214	206	197	193	192
Agriculture	3	10	5	4	4	5	6	10	17
<b>Crude Oil</b>									
Primary Energy Supply	3,030	2,525	2,627	1,600	2,272	3,527	3,818	4,310	4,285
Indigenous Production	337	677	866	1,265	1,396	1,332	1,603	1,796	1,850
Import	2,746	1,796	1,826	990	1,104	2,352	2,560	3,146	3,295
Export	-	-	-	-658	-190	-106	-328	-625	-913
Transformation Sector	-3,102	-2,597	-2,670	-1,610	-2,379	-3,541	-3,912	-4,340	-4,373
Petroleum Refineries	-3,102	-2,597	-2,670	-1,610	-2,379	-3,541	-3,912	-4,340	-4,373
<b>Petroleum Products</b>									
Primary Energy Supply	865	1,124	1,144	2,001	1,037	153	-545	-465	-219
Import	1,312	1,412	1,406	2,159	1,104	784	326	394	550
Export	-20	-14	-78	-80	-98	-342	-599	-784	-509
Transformation Sector	2,823	2,362	2,456	1,450	2,684	3,696	4,218	4,659	4,679
Power Generation	-	-	-	-	-	-	-	-	-
Petroleum Refineries	2,865	2,443	2,497	1,513	2,721	3,740	4,245	4,678	4,702
Final Energy Consumption	3,660	3,474	3,591	3,515	3,657	3,884	3,892	4,060	4,397
Industry	488	385	317	321	294	278	260	250	238
Transport	2,256	2,258	2,441	2,444	2,633	2,949	2,995	3,165	3,312
Residential & Commercial	376	300	267	238	211	148	143	130	177
Agriculture	393	375	380	375	359	353	323	326	353
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	760	1,836	2,350	3,022	3,636	3,505	3,795	3,906	3,895
Indigenous Production	763	1,836	2,351	3,021	3,637	3,507	3,797	3,906	3,895
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-414	-1,078	-1,133	-1,702	-2,244	-2,112	-2,436	-2,541	-2,549
Power Generation	-332	-970	-1,024	-1,344	-1,028	-1,090	-1,191	-1,267	-1,231
Final Energy Consumption	407	795	1,216	1,355	1,356	1,395	1,407	1,400	1,393
Industry	311	468	521	593	605	616	621	623	630
Transport	8	55	86	126	121	107	90	70	58
Residential & Commercial	84	112	116	120	135	159	181	183	174
Agriculture	1	2	4	5	4	4	4	4	4
<b>Electricity</b>									
Power Generation	1,952	2,248	2,343	2,379	2,453	2,497	2,604	2,625	2,706
Thermal	303	566	608	702	572	630	649	704	732
Hydro	1,648	1,681	1,735	1,678	1,881	1,867	1,955	1,920	1,974
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,670	1,944	2,043	2,082	2,157	2,209	2,277	2,336	2,382
Industry	645	773	835	849	877	905	931	956	963
Transport	3	3	3	3	3	3	4	5	5
Residential & Commercial	971	1,114	1,143	1,166	1,214	1,239	1,271	1,314	1,356
Agriculture	51	55	62	64	64	63	71	61	59

## Major Energy Indicators of New Zealand (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
14,420	14,986	15,368	15,328	15,543	16,460	17,073	17,122	18,097	18,746	18,597	19,484	
12,899	13,131	13,578	13,193	13,099	14,180	14,966	14,165	15,045	15,586	15,492	15,848	
3,912	3,840	4,181	4,669	4,921	5,280	5,442	5,948	6,261	6,078	6,169	6,607	
-1,965	-1,747	-2,094	-2,117	-2,003	-2,597	-2,883	-2,616	-2,611	-2,558	-2,717	-2,760	
10,360	10,434	10,768	11,249	11,877	12,581	12,839	12,946	12,957	13,582	13,369	14,216	
3,441	3,435	3,443	3,458	3,440	3,605	3,712	3,869	3,362	3,433	3,447	3,512	
3,410	3,536	3,686	3,876	4,177	4,344	4,404	4,466	4,673	4,865	4,896	5,349	
2,054	2,033	2,141	2,149	2,165	2,170	2,236	2,221	2,288	2,415	2,439	2,513	
410	461	472	474	512	522	442	460	469	435	423	535	
1,057	1,119	1,238	994	1,107	1,030	1,090	1,146	1,125	1,066	900	1,381	
1,490	1,665	1,798	1,735	2,076	2,183	1,971	1,918	2,080	2,162	2,162	2,713	
3	3	2	2	1	3	3	4	5	5	29	59	
-435	-549	-562	-744	-970	-1,156	-884	-777	-960	-1,101	-1,291	-1,391	
-101	-267	-152	-139	-211	-318	-424	-395	-348	-279	-397	-399	
-55	-221	-107	-94	-165	-273	-379	-349	-302	-234	-352	-354	
1,013	926	1,027	1,011	947	941	882	880	797	797	920	884	
839	801	826	822	733	758	730	754	677	683	773	743	
2	2	2	2	2	2	0	0	2	2	2	2	
154	104	186	171	191	158	133	110	107	99	132	125	
19	19	14	16	22	23	19	16	11	13	13	14	
4,227	4,209	4,451	4,848	4,432	4,615	5,118	5,425	5,206	5,283	4,968	5,373	
1,935	1,823	1,922	1,850	1,550	2,059	2,736	2,171	1,914	1,701	1,576	1,442	
3,390	3,294	3,683	4,058	3,959	4,004	4,124	4,971	4,776	4,839	4,790	5,122	
-1,023	-919	-1,080	-1,165	-1,001	-1,292	-1,763	-1,610	-1,440	-1,249	-1,277	-1,146	
-4,393	-4,301	-4,503	-4,726	-4,674	-4,679	-5,273	-5,445	-5,192	-5,243	-5,201	-5,444	
-4,393	-4,301	-4,503	-4,726	-4,674	-4,679	-5,273	-5,445	-5,192	-5,243	-5,201	-5,444	
-173	192	8	65	707	1,083	829	696	947	913	1,241	1,296	
519	543	496	609	961	1,272	1,315	973	1,479	1,233	1,350	1,426	
-506	-278	-452	-208	-31	-149	-236	-229	-212	-208	-149	-222	
4,506	4,563	4,688	4,833	4,515	4,398	4,674	4,878	4,635	4,723	4,714	5,140	
-	-	-	-	-	-	-	-	-	-	-	-	
4,581	4,677	4,803	4,978	4,634	4,491	4,836	5,033	4,980	4,976	4,927	5,359	
4,340	4,617	4,605	4,863	5,246	5,406	5,471	5,499	5,680	5,899	5,824	6,368	
232	252	211	230	234	249	304	263	238	298	293	306	
3,335	3,461	3,611	3,810	4,140	4,315	4,383	4,450	4,630	4,815	4,841	5,301	
174	250	150	154	154	148	140	145	158	157	143	137	
311	362	363	367	380	382	326	344	352	313	301	372	
4,228	4,482	4,372	4,067	3,855	4,396	4,712	4,150	4,810	5,055	5,319	5,058	
4,228	4,482	4,371	4,067	3,856	4,397	4,712	4,151	4,810	5,056	5,319	5,058	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-2,578	-2,974	-2,771	-2,299	-1,802	-1,939	-2,191	-1,716	-2,187	-2,152	-2,634	-2,080	
-1,502	-1,623	-1,501	-1,222	-1,090	-1,443	-2,032	-1,592	-2,059	-2,022	-2,497	-1,943	
1,634	1,561	1,627	1,866	2,074	2,554	2,809	2,842	2,616	2,949	2,708	2,997	
632	634	613	632	589	683	840	978	513	497	445	489	
58	54	49	40	31	23	16	11	8	2	2	4	
183	193	204	205	210	221	226	219	233	330	343	450	
4	4	4	-	-	-	-	-	-	-	-	-	
2,803	2,739	2,860	2,918	3,023	3,054	3,084	3,154	3,149	3,394	3,405	3,396	
854	943	860	719	679	843	1,055	1,076	1,153	1,276	1,545	1,306	
1,949	1,796	2,000	2,199	2,344	2,211	2,029	2,078	1,996	2,118	1,859	2,090	
-	-	-	-	-	-	-	-	-	-	-	-	
2,444	2,391	2,522	2,541	2,618	2,696	2,700	2,704	2,819	2,901	2,893	2,908	
991	991	1,015	1,016	1,107	1,145	1,075	1,066	1,105	1,137	1,134	1,135	
16	19	24	24	5	5	5	5	34	46	52	42	
1,361	1,304	1,392	1,411	1,396	1,430	1,523	1,533	1,575	1,609	1,599	1,582	
76	76	91	91	110	116	96	100	106	109	108	149	

## Major Economic Indicators of New Zealand

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	3.11	3.22	3.25	3.27	3.28	3.31	3.35	3.40
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	43.36	47.98	50.35	50.74	51.80	52.02	51.95	52.24
Real Term (Billions of 1995 Price and 1995 PPP)	44.54	49.28	51.72	52.11	53.21	53.43	53.35	53.65
Nominal (Billions of Current USD)	22.85	23.75	22.76	22.84	29.19	37.01	44.24	42.72
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	13,929	14,892	15,478	15,507	15,807	15,738	15,506	15,373
Real Term (1995 Price and 1995 PPP)	14,306	15,296	15,898	15,927	16,236	16,165	15,927	15,790
Nominal (Current USD)	7,341	7,372	6,998	6,980	8,908	11,199	13,206	12,573
Nominal GDP & its Components (Billions of Current NZD) *1								
Gross Domestic Product	23.46	35.55	40.15	46.21	55.85	62.72	67.53	71.44
Household Final Consumption Expenditure, etc.	13.80	20.18	22.97	27.15	32.11	36.57	39.61	42.44
General Government Final Consumption Expenditure	4.88	6.92	7.48	8.67	10.55	11.63	12.54	13.25
Gross Fixed Capital Formation	4.80	8.85	10.32	12.37	12.72	13.90	13.65	14.86
Stock Change	-0.04	0.37	1.13	-0.17	0.59	-0.41	-0.11	1.29
Exports of Goods and Services	6.93	10.39	13.08	13.79	14.96	16.45	17.81	18.94
Imports of Goods and Services	7.19	10.94	14.38	15.15	15.08	15.49	15.48	18.91
Real GDP & its Components (Billions of 1995 NZD) *1								
Gross Domestic Product	66.07	73.12	76.73	77.32	78.94	79.26	79.16	79.60
Household Final Consumption Expenditure, etc.	40.34	41.84	43.45	44.03	45.82	46.88	47.88	48.17
General Government Final Consumption Expenditure	12.90	13.57	13.82	14.06	14.16	14.35	14.37	14.96
Gross Fixed Capital Formation	10.30	14.16	14.95	15.99	15.07	15.64	15.34	16.20
Stock Change	0.59	0.73	1.85	0.12	0.67	-0.40	-0.18	1.38
Exports of Goods and Services	13.63	15.02	16.43	16.71	19.20	18.75	19.20	18.79
Imports of Goods and Services	11.85	13.24	14.76	14.99	16.63	16.62	16.63	19.27
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	5.9	5.2	5.2	6.0	6.0	6.7	6.6	6.2
Industry	27.7	28.5	29.5	28.9	28.7	27.5	27.0	26.5
Services, etc.	63.0	61.2	60.3	60.6	61.5	61.7	62.6	63.1
Manufacturing Production Index (2000=100) *2	63.8	71.4	78.2	74.7	76.7	73.9	71.0	70.5
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.421	5.414	5.518	5.720	5.880	7.195	8.784	8.875
Imports, c.i.f.	5.473	5.333	6.203	5.992	6.063	7.276	7.342	8.784
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.303	0.337	-0.452	-0.061	0.103	0.590	2.173	0.973
Current Account	-0.973	-0.960	-3.031	-2.657	-2.826	-2.910	-1.863	-1.525
Overall Balance	-1.421	-1.114	-1.546	-2.037	-2.612	-2.248	-2.921	-1.217
Foreign Exchange Rate (NZD/USD) *1	1.0267	1.4968	1.7640	2.0234	1.9132	1.6946	1.5264	1.6721
Purchasing Power Parity (NZD/International Dollar) *1	0.9468	1.0583	1.0819	1.1912	1.3869	1.4999	1.5794	1.5998
Price Indices								
GDP Deflator (1995=100) *3	35.5	48.6	52.3	59.8	70.7	79.1	85.3	89.7
Industry Input Price Index (2000=100) *2	35.6	50.5	54.1	62.4	66.0	71.3	75.0	80.3
Consumer Price Index (2000=100) *2	30.2	43.4	46.1	53.2	60.2	69.7	74.2	79.7
Growth Rate (%) *3								
Real GDP	0.90	2.74	4.93	0.77	2.09	0.41	-0.13	0.56
Population	0.13	1.29	0.96	0.58	0.15	0.85	1.36	1.43
Price								
Industry Input Price Index	22.9	5.5	7.1	15.3	5.7	7.9	5.2	7.1
Consumer Price Index	17.1	7.4	6.2	15.4	13.2	15.7	6.4	7.5

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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
3.45	3.50	3.53	3.57	3.62	3.67	3.73	3.78	3.82	3.84	3.86	3.88	3.94
52.23	51.54	52.11	55.47	58.40	60.82	62.95	63.86	64.14	67.32	69.11	71.52	74.63
53.64	52.94	53.52	56.97	59.99	62.47	64.65	65.59	65.88	69.14	70.99	73.46	76.66
43.62	42.06	40.43	44.04	51.78	60.82	66.84	66.61	54.57	56.66	51.69	51.39	58.36
15,147	14,747	14,753	15,529	16,134	16,558	16,866	16,886	16,813	17,553	17,915	18,429	18,947
15,558	15,146	15,153	15,950	16,571	17,007	17,324	17,343	17,269	18,029	18,400	18,929	19,461
12,650	12,035	11,447	12,330	14,303	16,558	17,909	17,612	14,305	14,775	13,398	13,241	14,817
73.11	72.92	75.27	81.50	87.32	92.68	97.24	100.74	101.96	107.07	113.78	122.24	126.20
44.64	44.49	45.35	47.43	51.18	54.52	58.05	60.52	63.11	65.67	68.44	71.74	75.30
14.06	14.32	14.86	15.11	15.34	16.38	16.98	18.44	18.66	20.27	20.46	21.85	23.46
14.42	11.97	12.57	15.03	17.75	19.89	20.88	20.61	19.71	21.08	21.55	23.13	24.87
-0.15	-0.09	0.62	1.43	1.17	1.18	0.81	0.82	0.16	1.58	1.52	1.94	0.69
19.75	21.49	23.70	25.08	26.95	27.13	27.53	28.53	30.44	33.48	41.34	43.60	41.89
19.57	19.25	21.87	22.71	25.33	26.42	27.01	28.18	30.13	34.45	39.22	39.77	39.91
79.59	78.54	79.41	84.53	89.00	92.68	95.92	97.32	97.74	102.58	105.32	108.99	113.73
48.26	47.51	47.72	49.51	52.59	54.52	56.96	58.24	59.72	61.96	63.01	64.78	67.24
15.12	15.06	15.20	15.46	15.61	16.38	16.60	18.06	17.67	18.95	18.55	19.25	20.23
15.63	12.86	13.16	15.52	17.96	19.89	21.02	20.83	19.97	21.69	21.55	22.58	24.50
0.32	-0.15	0.76	1.35	1.29	1.18	0.82	0.70	0.31	1.56	1.17	1.30	0.82
20.15	22.15	22.87	24.45	26.52	27.13	28.40	29.49	30.35	32.57	34.58	35.26	37.75
19.41	18.71	20.07	21.60	24.72	26.42	28.14	28.86	29.45	32.82	32.69	33.37	36.64
7.2	7.4	6.4	7.0	6.7	6.9	7.2	7.2	6.8	7.0	7.0	6.9	N.A.
25.4	24.8	24.9	25.0	25.2	24.9	24.9	24.6	23.7	23.7	23.1	22.4	N.A.
63.1	63.9	64.8	63.9	63.7	63.9	63.8	64.4	65.6	65.4	66.1	66.9	N.A.
68.0	65.3	67.5	71.7	76.2	95.6	97.4	98.1	94.8	96.4	100.0	99.9	104.0
9.394	9.619	9.785	10.542	12.185	13.645	14.360	14.221	12.070	12.455	13.272	13.723	14.363
9.501	8.381	9.201	9.636	11.913	13.957	14.724	14.519	12.495	14.299	13.906	13.347	15.077
0.815	2.070	1.627	1.719	1.408	0.971	0.523	0.903	0.912	-0.371	0.680	1.471	0.503
-1.453	-1.159	-1.071	-0.746	-2.384	-3.003	-3.891	-4.304	-2.157	-3.515	-2.462	-1.253	-1.938
0.179	-1.511	0.131	-0.074	0.733	0.384	1.772	-1.442	-0.486	0.188	-0.143	-0.187	1.086
1.6762	1.7335	1.8618	1.8505	1.6865	1.5239	1.4548	1.5124	1.8682	1.8896	2.2011	2.3788	2.1622
1.5905	1.5057	1.5056	1.4826	1.4818	1.4836	1.4596	1.4794	1.4956	1.4551	1.4639	1.5068	1.4735
91.9	92.8	94.8	96.4	98.1	100.0	101.4	103.5	104.3	104.4	108.0	112.2	111.0
84.1	84.8	86.5	88.7	89.9	90.6	91.1	91.4	92.1	93.0	100.0	106.0	106.3
84.1	85.5	86.4	87.6	89.7	93.1	95.2	96.3	97.6	97.4	100.0	102.6	105.4
-0.02	-1.32	1.10	6.45	5.29	4.13	3.50	1.45	0.44	4.95	2.67	3.48	4.35
1.47	1.36	1.06	1.13	1.34	1.46	1.61	1.34	0.87	0.52	0.60	0.60	1.49
4.7	0.9	2.1	2.4	1.3	0.8	0.5	0.4	0.7	1.0	7.6	6.0	0.3
5.5	1.7	1.0	1.4	2.4	3.7	2.3	1.2	1.3	-0.1	2.6	2.6	2.7



## Original Table (Energy Demand and Supply) of New Zealand in 2002

Year:2002

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	4,458.94	kt	0.0255	PJ/kt	113.60	PJ
HARD COAL	4,240.70	kt	0.0260	PJ/kt	110.35	PJ
COKING COAL	2,268.91	kt	0.0300	PJ/kt	68.11	PJ
SUBBITUMINOUS COAL	1,971.79	kt	0.0214	PJ/kt	42.24	PJ
LIGNITE	218.24	kt	0.0149	PJ/kt	3.25	PJ
CRUDE OIL AND NGL/CONDENSATE	1,363.56	kt	0.0443	PJ/kt	60.37	PJ
LPG	229.45	kt	0.0473	PJ/kt	10.84	PJ
NATURAL GAS AND LNG	6,032.21	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	211.76	PJ
NATURAL GAS	6,032.21	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	211.76	PJ
HYDRO POWER	24,302.58	GWh	0.0036	PJ/GWh	87.49	PJ
GEO THERMAL POWER	2,878.00	GWh	0.0360	PJ/GWh	103.61	PJ
WIND	152.90	GWh	0.0036	PJ/GWh	0.55	PJ
GEO THERMAL HEAT	19.30	PJ	1.0000	PJ/PJ	19.30	PJ
OTHERS	15,549.49	GWh	0.0036	PJ/GWh	55.98	PJ
<b>TOTAL PRODUCTION</b>					663.51	PJ
<b>OPENING STOCKS</b>						
CRUDE OIL AND NGL/CONDENSATE	342.00	kt	0.0442	PJ/kt	15.13	PJ
LPG	2.00	kt	0.0473	PJ/kt	0.09	PJ
NAPHTHA & FEEDSTOCKS	21.00	kt	0.0448	PJ/kt	0.94	PJ
MOGAS	223.00	kt	0.0447	PJ/kt	9.96	PJ
JET FUEL	78.00	kt	0.0441	PJ/kt	3.44	PJ
DIESEL OIL	258.00	kt	0.0436	PJ/kt	11.24	PJ
FUEL OIL	135.00	kt	0.0418	PJ/kt	5.64	PJ
OTHER PETROLEUM PRODUCTS	70.00	kt	0.0364	PJ/kt	2.55	PJ
NATURAL GAS AND LNG	5.90	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	0.21	PJ
NATURAL GAS	5.90	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	0.21	PJ
<b>TOTAL OPENING STOCKS</b>					49.20	PJ
<b>CLOSING STOCKS</b>						
CRUDE OIL AND NGL/CONDENSATE	290.00	kt	0.0442	PJ/kt	12.83	PJ
LPG	2.00	kt	0.0473	PJ/kt	0.09	PJ
NAPHTHA & FEEDSTOCKS	31.00	kt	0.0448	PJ/kt	1.39	PJ
MOGAS	345.00	kt	0.0447	PJ/kt	15.40	PJ
JET FUEL	136.00	kt	0.0441	PJ/kt	5.99	PJ
DIESEL OIL	286.00	kt	0.0436	PJ/kt	12.46	PJ
FUEL OIL	89.00	kt	0.0418	PJ/kt	3.72	PJ
OTHER PETROLEUM PRODUCTS	55.00	kt	0.0364	PJ/kt	2.00	PJ
NATURAL GAS AND LNG	5.87	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	0.21	PJ
NATURAL GAS	5.87	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	0.21	PJ
<b>TOTAL CLOSING STOCKS</b>					54.10	PJ
<b>STOCK CHANGE</b>						
CRUDE OIL AND NGL/CONDENSATE	-52.00	kt	0.0442	PJ/kt	-2.30	PJ
NAPHTHA & FEEDSTOCKS	10.00	kt	0.0448	PJ/kt	0.45	PJ
MOGAS	122.00	kt	0.0447	PJ/kt	5.45	PJ
JET FUEL	58.00	kt	0.0441	PJ/kt	2.56	PJ
DIESEL OIL	28.00	kt	0.0436	PJ/kt	1.22	PJ
FUEL OIL	-46.00	kt	0.0418	PJ/kt	-1.92	PJ
OTHER PETROLEUM PRODUCTS	-15.00	kt	0.0364	PJ/kt	-0.55	PJ
NATURAL GAS AND LNG	-0.03	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	-0.00	PJ
NATURAL GAS	-0.03	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	-0.00	PJ
<b>TOTAL STOCK CHANGE</b>					4.90	PJ
<b>IMPORTS</b>						
HARD COAL	81.08	kt	0.0284	PJ/kt	2.30	PJ
STEAM COAL	81.08	kt	0.0284	PJ/kt	2.30	PJ
COKE	12.68	kt	0.0145	PJ/kt	0.18	PJ
CRUDE OIL AND NGL/CONDENSATE	4,409.38	kt	0.0442	PJ/kt	195.04	PJ
NAPHTHA & FEEDSTOCKS	432.39	kt	0.0448	PJ/kt	19.39	PJ
MOGAS	807.96	kt	0.0447	PJ/kt	36.08	PJ
JET FUEL	131.85	kt	0.0441	PJ/kt	5.81	PJ
DIESEL OIL	269.76	kt	0.0436	PJ/kt	11.76	PJ
OTHER PETROLEUM PRODUCTS	166.24	kt	0.0364	PJ/kt	6.06	PJ
<b>TOTAL IMPORTS</b>					276.62	PJ
<b>EXPORTS</b>						
COAL	1,939.38	kt	0.0300	PJ/kt	58.20	PJ
HARD COAL	1,939.38	kt	0.0300	PJ/kt	58.20	PJ
COKING COAL	1,939.38	kt	0.0300	PJ/kt	58.20	PJ
COKE	3.53	kt	0.0145	PJ/kt	0.05	PJ
CRUDE OIL AND NGL/CONDENSATE	1,084.65	kt	0.0442	PJ/kt	47.98	PJ
LPG	67.63	kt	0.0473	PJ/kt	3.20	PJ
MOGAS	13.79	kt	0.0447	PJ/kt	0.62	PJ
JET FUEL	4.05	kt	0.0441	PJ/kt	0.18	PJ
DIESEL OIL	7.00	kt	0.0436	PJ/kt	0.30	PJ
FUEL OIL	119.82	kt	0.0418	PJ/kt	5.01	PJ
<b>TOTAL EXPORTS</b>					115.54	PJ
<b>INTERNATIONAL MARINE BUNKERS</b>	325.00	kt	0.0423	PJ/kt	13.73	PJ
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					815.76	PJ
<b>TRANSFORMATION SECTOR(INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	11,170.56	kt	0.0204	PJ/kt	227.91	PJ

Original Table (Energy Demand and Supply) of New Zealand in 2002 (Continued)

Year:2002

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	660.50	kt	0.0214	PJ/kt	14.15	PJ
HARD COAL	660.50	kt	0.0214	PJ/kt	14.15	PJ
NATURAL GAS AND LNG	1,783.30	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	62.60	PJ
NATURAL GAS	1,783.30	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	62.60	PJ
HYDRO POWER	24,302.56	GWh	0.0036	PJ/GWh	87.49	PJ
GEOHERMAL POWER	2,830.55	GWh	0.0360	PJ/GWh	101.90	PJ
WIND	152.90	GWh	0.0036	PJ/GWh	0.55	PJ
OTHER POWER	221.33	GWh	0.0036	PJ/GWh	0.80	PJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
HARD COAL	30.47	kt	0.0214	PJ/kt	0.65	PJ
NATURAL GAS AND LNG	534.47	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	18.76	PJ
NATURAL GAS	534.47	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	18.76	PJ
GEOHERMAL POWER	47.46	GWh	0.0360	PJ/GWh	1.71	PJ
OTHER POWER	5,700.00	GWh	0.0036	PJ/GWh	20.52	PJ
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
MOGAS	1,529.95	kt	0.0446	PJ/kt	68.31	PJ
JET FUEL	871.98	kt	0.0441	PJ/kt	38.41	PJ
DIESEL OIL	2,049.22	kt	0.0436	PJ/kt	89.27	PJ
FUEL OIL	568.00	kt	0.0419	PJ/kt	23.79	PJ
OTHER PETROLEUM PRODUCTS	133.10	kt	0.0345	PJ/kt	4.60	PJ
<b>GAS RECOVERING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	9,287.67	GWh	0.0036	PJ/GWh	33.44	PJ
COAL	1,361.52	GWh	0.0036	PJ/GWh	4.90	PJ
OIL		GWh	0.0036	PJ/GWh		PJ
GAS	7,926.15	GWh	0.0036	PJ/GWh	28.53	PJ
HYDRO POWER	24,302.58	GWh	0.0036	PJ/GWh	87.49	PJ
GEOHERMAL POWER	2,830.55	GWh	0.0036	PJ/GWh	10.19	PJ
WIND	152.90	GWh	0.0036	PJ/GWh	0.55	PJ
OTHER POWER	66.40	GWh	0.0036	PJ/GWh	0.24	PJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	1,794.54	GWh	0.0036	PJ/GWh	6.46	PJ
COAL	57.25	GWh	0.0036	PJ/GWh	0.21	PJ
GAS	1,737.30	GWh	0.0036	PJ/GWh	6.25	PJ
GEOHERMAL POWER	47.46	GWh	0.0036	PJ/GWh	0.17	PJ
OTHER POWER	1,011.75	GWh	0.0036	PJ/GWh	3.64	PJ
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COAL	76.25	kt	0.0249	PJ/kt	1.90	PJ
HARD COAL	76.25	kt	0.0249	PJ/kt	1.90	PJ
LPG	18.70	kt	0.0473	PJ/kt	0.88	PJ
MOGAS	69.00	kt	0.0447	PJ/kt	3.08	PJ
JET FUEL	35.80	kt	0.0441	PJ/kt	1.58	PJ
DIESEL OIL	38.37	kt	0.0436	PJ/kt	1.67	PJ
FUEL OIL	37.08	kt	0.0418	PJ/kt	1.55	PJ
OTHER PETROLEUM PRODUCTS	11.39	kt	0.0364	PJ/kt	0.42	PJ
NATURAL GAS AND LNG	162.87	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	5.72	PJ
NATURAL GAS	162.87	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	5.72	PJ
GEOHERMAL HEAT					6.00	PJ
ELECTRICITY	3,006.39	GWh	0.0036	PJ/GWh	10.82	PJ
TOTAL LOSSES AND OWN USE					33.62	PJ
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	1,584.82	kt	0.0234	PJ/kt	37.03	PJ
HARD COAL	1,327.75	kt	0.0249	PJ/kt	33.09	PJ
LIGNITE	257.06	kt	0.0153	PJ/kt	3.94	PJ
LPG	137.32	kt	0.0473	PJ/kt	6.49	PJ
MOGAS	2,371.23	kt	0.0447	PJ/kt	105.88	PJ
JET FUEL	938.72	kt	0.0441	PJ/kt	41.35	PJ
DIESEL OIL	2,230.81	kt	0.0436	PJ/kt	97.21	PJ
FUEL OIL	122.14	kt	0.0418	PJ/kt	5.11	PJ
OTHER PETROLEUM PRODUCTS	244.82	kt	0.0431	PJ/kt	10.56	PJ
NATURAL GAS AND LNG	3,574.50	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	125.49	PJ
NATURAL GAS	3,574.50	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	125.49	PJ
GEOHERMAL HEAT	3,695.56	GWh	0.0036	PJ/GWh	13.30	PJ
ELECTRICITY	33,818.36	GWh	0.0036	PJ/GWh	121.75	PJ
OTHERS	8,625.01	GWh	0.0036	PJ/GWh	31.05	PJ
TOTAL					595.21	PJ
<b>AGRICULTURE</b>						
COAL	23.94	kt	0.0249	PJ/kt	0.60	PJ
HARD COAL	23.94	kt	0.0249	PJ/kt	0.60	PJ
MOGAS	28.28	kt	0.0447	PJ/kt	1.26	PJ
JET FUEL	3.64	kt	0.0441	PJ/kt	0.16	PJ
DIESEL OIL	290.79	kt	0.0436	PJ/kt	12.67	PJ
FUEL OIL	35.01	kt	0.0418	PJ/kt	1.46	PJ
ELECTRICITY	1,733.06	GWh	0.0036	PJ/GWh	6.24	PJ
TOTAL					22.39	PJ
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	236.70	kt	0.0221	PJ/kt	5.23	PJ

Original Table (Energy Demand and Supply) of New Zealand in 2002 (Continued)

Year:2002

New Zealand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HARD COAL	166.57	kt	0.0249	PJ/kt	4.15	PJ
LIGNITE	70.14	kt	0.0153	PJ/kt	1.08	PJ
LPG	60.22	kt	0.0473	PJ/kt	2.85	PJ
MOGAS	2.51	kt	0.0447	PJ/kt	0.11	PJ
JET FUEL	14.15	kt	0.0441	PJ/kt	0.62	PJ
DIESEL OIL	49.53	kt	0.0436	PJ/kt	2.16	PJ
NATURAL GAS AND LNG	536.22	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	18.82	PJ
NATURAL GAS	536.22	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	18.82	PJ
GEOHERMAL HEAT	696.11	GWh	0.0036	PJ/GWh	2.51	PJ
ELECTRICITY	18,394.18	GWh	0.0036	PJ/GWh	66.22	PJ
OTHERS	1,858.33	GWh	0.0036	PJ/GWh	6.69	PJ
TOTAL					105.21	PJ
<b>OTHERS</b>						
TOTAL						PJ
<b>INDUSTRY</b>						
COAL	1,321.12	kt	0.0236	PJ/kt	31.13	PJ
HARD COAL	1,134.20	kt	0.0249	PJ/kt	28.26	PJ
LIGNITE	186.93	kt	0.0153	PJ/kt	2.87	PJ
LPG	23.16	kt	0.0473	PJ/kt	1.09	PJ
MOGAS	3.45	kt	0.0447	PJ/kt	0.15	PJ
JET FUEL	4.42	kt	0.0441	PJ/kt	0.19	PJ
DIESEL OIL	236.99	kt	0.0436	PJ/kt	10.33	PJ
FUEL OIL	24.81	kt	0.0418	PJ/kt	1.04	PJ
NATURAL GAS AND LNG	582.68	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	20.46	PJ
NATURAL GAS	582.68	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	20.46	PJ
GEOHERMAL HEAT	2,999.45	GWh	0.0036	PJ/GWh	10.80	PJ
ELECTRICITY	13,197.51	GWh	0.0036	PJ/GWh	47.51	PJ
OTHERS	6,766.67	GWh	0.0036	PJ/GWh	24.36	PJ
TOTAL					147.06	PJ
<b>TRANSPORT</b>						
COAL	3.05	kt	0.0249	PJ/kt	0.08	PJ
HARD COAL	3.05	kt	0.0249	PJ/kt	0.08	PJ
LPG	53.95	kt	0.0473	PJ/kt	2.55	PJ
MOGAS	2,337.00	kt	0.0447	PJ/kt	104.35	PJ
JET FUEL	916.51	kt	0.0441	PJ/kt	40.38	PJ
DIESEL OIL	1,653.50	kt	0.0436	PJ/kt	72.06	PJ
FUEL OIL	62.32	kt	0.0418	PJ/kt	2.61	PJ
NATURAL GAS AND LNG	5.05	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	0.18	PJ
NATURAL GAS	5.05	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	0.18	PJ
ELECTRICITY	493.61	GWh	0.0036	PJ/GWh	1.78	PJ
TOTAL					223.97	PJ
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	244.82	kt	0.0431	PJ/kt	10.56	PJ
NATURAL GAS AND LNG	2,450.55	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	86.03	PJ
NATURAL GAS	2,450.55	Mm <sup>3</sup>	0.0351	PJ/Mm <sup>3</sup>	86.03	PJ
TOTAL NON-ENERGY USE					96.59	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 2002 (Continued)

## ELECTRICITY GENERATING CAPACITY

At the time of March Year 2002  
unit: MW

THERMAL POWER	2,135
COAL	280
OIL	-
GAS	1855
HYDRO POWER	5245.29
NUCLEAR POWER	
GEOTHERMAL POWER	423
OTHERS (WIND, TIDE, PHOTVOLTAIC)	35.73
OTHERS (BIOMASS, MUNICIPAL WASTE)	9
COGENERATION	564.97
COAL	54.9
OIL	-
GAS	332.28
GEOTHERMAL POWER	8
OTHERS (BIOMASS, MUNICIPAL WASTE)	169.79

## REFINING CAPACITY

At the time of 2002

	Unit	
OPERATING RATE (*1)	%	88.1%
CRUDE DISTILLATION CAPACITY	1000BD	106.5
VACUUM DISTILLATION CAPACITY	1000BD	46.1
CATALYTIC HYDROCRACKING CAPACITY	1000BD	29.915
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	6.6
CATALYTIC CRACKING CAPACITY	1000BD	
CATALYTIC REFORMING CAPACITY	1000BD	27.672

(\*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 2002  
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

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

## Original Table (Disaggregated Final Energy Demand) of New Zealand in 2002

New Zealand	2002					
	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>1 INDUSTRIAL SECTOR</b>						
<b>1.1 IRON AND STEEL (*1)</b>						
COAL	589.67	Ktonnes	0.0262	PJ/Ktonnes	15.47	PJ
DIESEL OIL	0.07	Ktonnes	0.0460	PJ/Ktonnes	0.00	PJ
ELECTRICITY	5,811.39	GWh	0.0036	PJ/GWh	20.92	PJ
TOTAL					36.39	PJ
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
ELECTRICITY	533.61	GWh	0.0036	PJ/GWh	1.92	PJ
TOTAL					1.92	PJ
<b>1.3 NON-FERROUS METALS (*3)</b>						
TOTAL						PJ
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
ELECTRICITY	283.89	GWh	0.0036	PJ/GWh	1.02	PJ
TOTAL					1.02	PJ
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
ELECTRICITY	3,667.22	GWh	0.0036	PJ/GWh	13.20	PJ
TOTAL					13.20	PJ
<b>1.6 OTHER INDUSTRIES (*6)</b>						
COAL*	659.55	Ktonnes	0.0262	PJ/Ktonnes	17.30	PJ
LPG	23.16	Ktonnes	0.0498	PJ/Ktonnes	1.15	PJ
MOGAS	3.49	Ktonnes	0.0470	PJ/Ktonnes	0.16	PJ
JET FUEL	4.42	Ktonnes	0.0464	PJ/Ktonnes	0.21	PJ
DIESEL OIL	236.37	Ktonnes	0.0460	PJ/Ktonnes	10.87	PJ
FUEL OIL	24.74	Ktonnes	0.0441	PJ/Ktonnes	1.09	PJ
NATURAL GAS*	582.68	Mm3	0.0390	PJ/Mm3	22.73	PJ
GEOHERMAL HEAT	2,999.44	GWh	0.0036	PJ/GWh	10.80	PJ
ELECTRICITY	2,901.39	GWh	0.0036	PJ/GWh	10.45	PJ
OTHERS	6,766.67	GWh	0.0036	PJ/GWh	24.36	PJ
TOTAL					99.11	PJ
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
JET FUEL	916.51	Ktonnes	0.0464	PJ/Ktonnes	42.50	PJ
ELECTRICITY	49.36	GWh	0.0036	PJ/GWh	0.18	PJ
TOTAL					42.68	PJ
<b>2.2 ROAD</b>						
LPG	53.95	Ktonnes	0.0498	PJ/Ktonnes	2.68	PJ
MOGAS	2,337.00	Ktonnes	0.0470	PJ/Ktonnes	109.84	PJ
DIESEL OIL	1,649.62	Ktonnes	0.0460	PJ/Ktonnes	75.85	PJ
FUEL OIL	62.13	Ktonnes	0.0441	PJ/Ktonnes	2.74	PJ
NATURAL GAS	5.05	Mm3	0.0390	PJ/Mm3	0.20	PJ
ELECTRICITY	202.38	GWh	0.0036	PJ/GWh	0.73	PJ
TOTAL					192.04	PJ
<b>2.3 RAIL</b>						
COAL	3.05	Ktonnes	0.0262	PJ/Ktonnes	0.08	PJ
ELECTRICITY	78.98	GWh	0.0036	PJ/GWh	0.28	PJ
TOTAL					0.36	PJ
<b>2.4 INTERNAL NAVIGATION</b>						
ELECTRICITY	19.74	GWh	0.0036	PJ/GWh	0.07	PJ
TOTAL					0.07	PJ
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
COAL	187.15	Ktonnes	0.0262	PJ/Ktonnes	4.91	PJ
LPG	17.75	Ktonnes	0.0498	PJ/Ktonnes	0.88	PJ
MOGAS	2.43	Ktonnes	0.0470	PJ/Ktonnes	0.11	PJ
KEROSENE	14.10	Ktonnes	0.0464	PJ/Ktonnes	0.65	PJ
DIESEL OIL	49.28	Ktonnes	0.0460	PJ/Ktonnes	2.27	PJ
FUEL OIL		Ktonnes	0.0441	PJ/Ktonnes		PJ
NATURAL GAS*	331.84	Mm3	0.0390	PJ/Mm3	12.94	PJ
OTHER COMMERCIAL	52.78	GWh	0.0036	PJ/GWh	0.19	PJ
ELECTRICITY	6,463.61	GWh	0.0036	PJ/GWh	23.27	PJ
TOTAL					45.23	PJ
<b>3.2 RESIDENTIAL</b>						
COAL	22.57	Ktonnes	0.0262	PJ/Ktonnes	0.59	PJ
LPG	42.47	Ktonnes	0.0498	PJ/Ktonnes	2.11	PJ
MOGAS	0.09	Ktonnes	0.0470	PJ/Ktonnes	0.00	PJ
KEROSENE	0.02	Ktonnes	0.0464	PJ/Ktonnes	0.00	PJ
DIESEL OIL	0.13	Ktonnes	0.0460	PJ/Ktonnes	0.01	PJ
FUEL OIL		Ktonnes	0.0441	PJ/Ktonnes		PJ
NATURAL GAS	204.38	Mm3	0.0390	PJ/Mm3	7.97	PJ

Original Table (Disaggregated Final Energy Demand) of New Zealand in 2002 (Continued)

New Zealand	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
	OTHER COMMERCIAL	1,805.56	GWh	0.0036	PJ/GWh	6.50	PJ	
ELECTRICITY	11,930.56	GWh	0.0036	PJ/GWh	42.95	PJ		
TOTAL					62.64	PJ		

Notes:

Insert three rows (rows 285 to 287) for 2.5 OTHER TRANSPORT, AND SERVICE TO TRANSPORT

Insert MOGAS for 3.1 and 3.2 for COMMERCE AND PUBLIC SERVICE (row 294) and RESIDENTIAL. (row 313).

\* Excludes cogeneration.

## Original Table (Energy Price) of New Zealand in 2002

Year: 2002

New Zealand	Unit	Price	Note
<b>MEMBER NAME</b>			
IMPORT CIF PRICES			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL	New Zealand\$/bbl	56.9	Dubai crude
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS	New Zealand\$/litre	0.4	91 RON
JET FUEL			
KEROSENE			
DIESEL OIL	New Zealand\$/litre	0.4	
FUEL OIL			
NATURAL GAS (LNG)			
<b>WHOLESALE PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	New Zealand\$/litre	0.9	91 RON
JET FUEL			
KEROSENE			
DIESEL OIL	New Zealand\$/litre	0.6	
FUEL OIL	New Zealand\$/litre	0.5	
LPG			
ELECTRICITY (INDUSTRY)	New Zealand\$/kWh	0.1	
ELECTRICITY (COMMERCIAL)	New Zealand\$/kWh	0.1	
<b>CONSUMER PRICES</b>			
COAL			
STEAM COAL			
NATURAL GAS	New Zealand\$/GJ	17.7	residential
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	New Zealand\$/litre	1.0	91 RON
KEROSENE			
DIESEL OIL	New Zealand\$/litre	0.6	
LPG			
ELECTRICITY (RESIDENTIAL)	New Zealand\$/kWh	0.1	

## Original Table (Quarterly) of New Zealand in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	<b>1st quarter</b>	1,167	-	552	-
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	<b>2nd quarter</b>	1,405	-	623	-
	JUL.	-	-	-	-
	AUG.	-	-	-	-
	SEP.	-	-	-	-
	<b>3rd quarter</b>	1,450	-	501	-
	OCT.	-	-	-	-
	NOV.	-	-	-	-
	DEC.	-	-	-	-
	<b>4th quarter</b>	1,174	-	534	-
	5,195	-	2,210	-	

Oil		Unit: 1,000kL						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.							
	FEB.							
	MAR.							
	<b>1st quarter</b>	336	1,518	258	93	547	22	-34
	APR.							
	MAY.							
	JUN.							
	<b>2nd quarter</b>	324	1,491	325	88	413	22	105
	JUL.							
	AUG.							
	SEP.							
	<b>3rd quarter</b>	323	1,603	270	114	372	22	-114
	OCT.							
	NOV.							
	DEC.							
	<b>4th quarter</b>	242	1,412	204	-85	410	22	-12
	1,225	6,024	1,056	209	1,742	87	-55	



Original Table (Quarterly) of New Zealand in 2003 (Continued)

		Natural Gas ( or LNG)			Unit: 1,000m <sup>3</sup>
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	-	-	-
	FEB.	-	-	-	-
	MAR.	-	-	-	-
	<b>1st quarter</b>	1,225,110	-	-	1
	APR.	-	-	-	-
	MAY.	-	-	-	-
	JUN.	-	-	-	-
	<b>2nd quarter</b>	1,259,668	-	-	2,641
	JUL.	-	-	-	-
	AUG.	-	-	-	-
	SEP.	-	-	-	-
	<b>3rd quarter</b>	1,361,498	-	-	769
	OCT.	-	-	-	-
	NOV.	-	-	-	-
	DEC.	-	-	-	-
	<b>4th quarter</b>	892,035	-	-	436
	4,738,312	-	-	3,847	

		Electricity					Unit: GWh	
		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	-	-	-	-	-	-	-
	FEB.	-	-	-	-	-	-	-
	MAR.	-	-	-	-	-	-	-
	<b>1st quarter</b>	9,792	3,113	5,822	-	857	-	-
	APR.	-	-	-	-	-	-	-
	MAY.	-	-	-	-	-	-	-
	JUN.	-	-	-	-	-	-	-
	<b>2nd quarter</b>	9,914	3,761	5,285	-	868	-	-
	JUL.	-	-	-	-	-	-	-
	AUG.	-	-	-	-	-	-	-
	SEP.	-	-	-	-	-	-	-
	<b>3rd quarter</b>	11,121	3,862	6,365	-	894	-	-
	OCT.	-	-	-	-	-	-	-
	NOV.	-	-	-	-	-	-	-
	DEC.	-	-	-	-	-	-	-
	<b>4th quarter</b>	10,393	2,303	7,228	-	863	-	-
	41,220	13,038	24,699	-	3,483	-	-	

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 2001

	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
<b>1 Indigenous Production</b>	-	-	3,057	-	-	-	-	-	-
<b>2 Import</b>	-	-	-	1,075	87	9	69	33	541
<b>3 Export</b>	-	-	-3,057	-	-	-	-	-	-
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	-	-	-	1,075	87	9	69	33	541
<b>7 Public Electricity</b>	-	-	-	-119	-	-	-	-	-17
<b>8 Autoproducers of Electricity</b>	-	-	-	-226	-	-	-	-	-32
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	-	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	-	-	-	0	-	-	-	-	0
<b>14 Total Final Energy Consumption</b>	-	-	-	730	87	9	69	33	492
<b>15 Industry Sector</b>	-	-	-	355	-	9	-	-	325
<b>16 Transport Sector</b>	-	-	-	328	87	-	69	-	167
<b>17 Other Sector</b>	-	-	-	35	-	-	-	33	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	35	-	-	-	33	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	12	-	-	-	-	-

Note: Estimated by the Coording Agency

## Energy Balance Table of Papua New Guinea 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
<b>1 Indigenous Production</b>	-	-	2,552	-	-	-	-	-	-
<b>2 Import</b>	-	-	-	1,170	91	9	73	36	588
<b>3 Export</b>	-	-	-2,552	-	-	-	-	-	-
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	-	-	-	1,170	91	9	73	36	588
<b>7 Public Electricity</b>	-	-	-	-158	-	-	-	-	-22
<b>8 Autoproducers of Electricity</b>	-	-	-	-238	-	-	-	-	-41
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	-	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	-	-	-	0	-	-	-	-	0
<b>14 Total Final Energy Consumption</b>	-	-	-	774	91	9	73	36	525
<b>15 Industry Sector</b>	-	-	-	380	-	9	-	-	350
<b>16 Transport Sector</b>	-	-	-	344	91	-	73	-	175
<b>17 Other Sector</b>	-	-	-	38	-	-	-	36	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	38	-	-	-	36	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	12	-	-	-	-	-

Note: Estimated by the Coording Agency

Energy Balance Table of Papua New Guinea in 2001 (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
-	-	-	-	144	-	80	-	-	-	-	-	3,281
313	11	-	12	-	-	-	-	-	-	-	-	1,075
-	-	-	-	-	-	-	-	-	-	-	-	-3,057
-	-	-	-	-	-	-	-	-	-	-	-	-
313	11	-	12	144	-	80	-	-	-	-	-	1,299
-102	-	-	-	-	-	-47	-	-	-	90	-	-76
-194	-	-	-	-137	-	-33	-	-	-	141	-	-255
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-14	-	-14
0	0	-	-	-7	-	0	-	-	-	1	-	-6
17	11	-	12	-	-	-	-	-	-	218	-	948
12	9	-	-	-	-	-	-	-	-	160	-	515
5	-	-	-	-	-	-	-	-	-	-	-	328
-	2	-	-	-	-	-	-	-	-	58	-	93
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2	-	-	-	-	-	-	-	-	58	-	93
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	12	-	-	-	-	-	-	-	-	12

Energy Balance Table of Papua New Guinea 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
-	-	-	-	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	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	631	803	659	737	729	818	764	781	864
Indigenous Production	27	33	35	36	39	38	38	39	4,611
Import	625	754	695	749	713	813	760	783	796
Export	-	-18	-26	-29	-	-6	-5	-10	-4,512
Final Energy Consumption	441	496	510	512	519	557	547	532	613
Industry	161	208	216	214	177	194	190	190	190
Transport	211	222	225	228	205	222	219	204	209
Residential & Commercial	29	21	23	23	32	32	32	32	35
Agriculture	30	33	32	33	80	80	80	80	81
Coal, Coal Products									
Primary Energy Supply	-	-	-	1	1	1	1	1	1
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	1	1	1	1	1	1
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	1	1	1
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	4,500
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-4,500
Transformation Sector	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Petroleum Products									
Primary Energy Supply	604	770	624	700	689	779	725	741	752
Import	625	754	695	748	712	812	760	782	795
Export	-	-18	-26	-29	-	-6	-5	-10	-12
Transformation Sector	-264	-287	-302	-312	-310	-360	-329	-341	-346
Power Generation	-264	-287	-302	-312	-310	-360	-329	-341	-346
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	338	377	380	382	381	410	404	389	398
Industry	80	115	113	111	80	90	87	87	87
Transport	211	222	225	228	205	222	219	204	209
Residential & Commercial	19	9	10	10	20	21	21	21	24
Agriculture	27	30	29	30	75	75	75	75	76
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	72
Indigenous Production	-	-	-	-	-	-	-	-	72
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	72
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	-	-	-	-	-	-	-	-	-
Thermal	-	-	-	-	-	-	-	-	-
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	103	119	130	130	137	147	142	142	142
Industry	81	94	103	103	96	103	103	103	103
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	10	11	12	12	12	11	11	11	11
Agriculture	2	3	3	3	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
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
914	895	896	957	921	954	1,029	1,127	1,056	1,123	1,299	1,394	
5,111	5,411	5,514	5,882	4,897	5,244	3,776	4,049	4,879	3,866	3,281	2,776	
748	748	747	774	731	715	828	896	834	908	1,075	1,170	
-4,915	-5,235	-5,335	-5,678	-4,694	-4,952	-3,566	-3,828	-4,657	-3,651	-3,057	-2,552	
615	615	623	654	689	724	717	763	823	880	948	1,008	
191	189	184	238	271	294	277	325	360	480	515	552	
210	210	224	248	251	257	260	251	262	306	328	344	
36	38	38	77	79	79	81	83	92	82	93	100	
80	80	76	80	77	81	88	94	97	-	-	-	
1	1	1	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
1	1	1	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
1	1	1	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
100	80	80	9	10	14	12	14	-	-	-	-	
5,000	5,300	5,400	5,709	4,717	5,019	3,586	3,832	4,657	3,651	3,057	2,552	
-	-	-	-	-	-	-	-	-	-	-	-	
-4,900	-5,220	-5,320	-5,678	-4,694	-4,951	-3,564	-3,828	-4,657	-3,651	-3,057	-2,552	
-55	-55	-55	-17	-24	-29	-32	-28	-	-	-	-	
-	-	-	-17	-24	-29	-32	-28	-	-	-	-	
702	703	702	774	731	714	826	896	834	908	1,075	1,170	
747	747	746	774	731	715	828	896	834	908	1,075	1,170	
-15	-15	-15	-	-	-1	-2	-0	-	-	-	-	
-296	-296	-297	-80	-82	-68	-101	-158	-184	-222	-345	-396	
-347	-347	-348	-97	-104	-94	-133	-185	-184	-222	-345	-396	
-	-	-	17	22	26	32	28	-	-	-	-	
397	397	402	559	571	592	596	600	651	686	730	774	
85	84	79	186	197	208	204	211	239	338	355	380	
210	210	224	248	251	257	260	251	262	306	328	344	
25	26	26	34	35	33	34	34	41	30	35	38	
75	75	71	80	77	81	88	94	97	-	-	-	
72	72	74	80	83	117	100	115	113	119	144	144	
72	72	74	80	83	117	100	115	113	119	144	144	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-11	-83	-117	-108	-141	-137	-119	-137	-137	
-	-	-	-11	-83	-117	-108	-141	-137	-119	-137	-137	
72	72	74	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	111	136	152	140	187	198	204	231	248	
-	-	-	42	60	70	79	112	119	124	151	168	
-	-	-	69	75	81	61	75	79	80	80	80	
-	-	-	-	-	-	-	-	-	-	-	-	
146	145	146	94	117	131	120	162	172	194	218	234	
105	104	105	52	74	86	74	114	121	142	160	172	
-	-	-	-	-	-	-	-	-	-	-	-	
12	12	12	42	43	46	46	48	51	52	58	62	
5	5	5	-	-	-	-	-	-	-	-	-	

## Major Economic Indicators of Papua New Guinea

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	3.086	3.334	3.423	3.515	3.607	3.700	3.793	3.887
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	2.688	2.777	2.767	2.878	3.013	3.097	3.187	3.141
Real Term (Billions of 1995 Price and 1995 PPP)	6.194	6.399	6.376	6.631	6.942	7.134	7.342	7.238
Nominal (Billions of Current USD)	2.546	2.562	2.553	2.423	2.648	3.144	3.656	3.546
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	871	833	808	819	835	837	840	808
Real Term (1995 Price and 1995 PPP)	2,007	1,919	1,863	1,886	1,925	1,928	1,936	1,862
Nominal (Current USD)	825	769	746	689	734	850	964	912
Nominal GDP & its Components (Billions of Current PGK) *1								
Gross Domestic Product	1.708	2.142	2.294	2.424	2.572	2.854	3.170	3.046
Household Final Consumption Expenditure, etc.	1.051	1.382	1.456	1.625	1.674	1.815	1.920	1.962
General Government Final Consumption Expenditure	0.411	0.499	0.533	0.569	0.591	0.640	0.663	0.745
Gross Fixed Capital Formation	0.394	0.637	0.548	0.447	0.539	0.551	0.737	0.791
Stock Change	0.036	-0.006	0.072	0.034	-0.032	0.034	0.126	-0.083
Exports of Goods and Services	0.738	0.776	0.905	1.021	1.121	1.232	1.371	1.238
Imports of Goods and Services	0.911	1.145	1.219	1.271	1.321	1.418	1.646	1.606
Real GDP & its Components (Billions of 1983 PGK) *1								
Gross Domestic Product	2.074	2.142	2.135	2.220	2.324	2.389	2.458	2.424
Household Final Consumption Expenditure, etc.	1.378	1.382	1.379	1.492	1.452	1.500	1.504	1.486
General Government Final Consumption Expenditure	0.569	0.499	0.504	0.517	0.511	0.527	0.517	0.548
Gross Fixed Capital Formation	0.512	0.637	0.514	0.391	0.459	0.453	0.572	0.587
Stock Change	0.045	-0.006	0.064	0.024	-0.024	0.025	0.102	-0.074
Exports of Goods and Services	0.735	0.776	0.800	0.898	1.006	0.996	0.981	0.972
Imports of Goods and Services	1.164	1.145	1.124	1.102	1.079	1.111	1.219	1.097
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	31.4	32.7	33.8	31.5	30.6	31.3	31.5	32.4
Industry	29.5	27.9	26.3	28.8	30.5	29.2	29.9	26.1
Services, etc.	39.1	39.4	40.0	39.7	38.9	39.5	38.6	41.5
Industrial Production Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	1.031	0.813	0.892	0.912	1.033	1.161	1.399	1.404
Imports, c.i.f.	1.176	1.120	1.110	1.008	1.080	1.165	1.393	1.530
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-0.035	-0.154	-0.047	0.051	0.102	0.114	0.091	-0.023
Current Account	-0.289	-0.337	-0.290	-0.122	-0.098	-0.198	-0.296	-0.313
Overall Balance	-0.084	0.097	0.049	-0.001	0.003	0.002	-0.053	-0.059
Foreign Exchange Rate (PGK/USD) *1	0.6709	0.8361	0.8986	1.0003	0.9714	0.9079	0.8671	0.8588
Purchasing Power Parity (PGK/International Dollar) *1	0.4807	0.4676	0.4966	0.4865	0.4867	0.5007	0.5264	0.4945
Price Indices								
GDP Deflator (1983=100) *3	82.4	100.0	107.4	109.2	110.7	119.5	128.9	125.7
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	28.3	30.4	31.5	33.2	34.3	36.2	37.8
Growth Rate (%) *3								
Real GDP	-2.30	3.22	-0.35	4.00	4.69	2.77	2.91	-1.42
Population	2.56	2.62	2.67	2.69	2.62	2.58	2.51	2.48
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	7.9	7.4	3.7	5.5	3.3	5.4	4.5

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"

: PGK shows Kina, USD shows United States Dollar

: PPP shows Purchasing Power Parity

Major Economic Indicators of Papua New Guinea (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
3.980	4.078	4.181	4.288	4.401	4.520	4.640	4.761	4.883	5.006	5.130	5.254	5.378
3.047	3.338	3.800	4.492	4.759	4.601	4.957	4.714	4.584	4.930	4.869	4.705	4.679
7.020	7.690	8.755	10.348	10.963	10.600	11.420	10.862	10.560	11.359	11.219	10.839	10.781
3.221	3.788	4.378	4.976	5.321	4.601	5.217	4.912	3.756	3.416	3.420	2.898	2.814
766	818	909	1,047	1,081	1,018	1,068	990	939	985	949	895	870
1,764	1,886	2,094	2,413	2,491	2,345	2,461	2,281	2,163	2,269	2,187	2,063	2,005
809	929	1,047	1,160	1,209	1,018	1,124	1,032	769	682	667	552	523
3.076	3.605	4.223	4.867	5.381	5.888	6.881	7.064	7.788	8.781	9.515	9.821	10.963
1.816	2.121	2.144	2.046	2.240	2.454	3.375	4.119	4.694	5.663	N.A.	N.A.	N.A.
0.764	0.853	1.004	1.199	1.001	1.006	1.370	1.361	1.407	1.219	N.A.	N.A.	N.A.
0.773	1.010	0.914	0.901	1.012	1.150	1.186	1.079	1.089	N.A.	N.A.	N.A.	N.A.
-0.021	-0.022	0.070	-0.043	0.142	0.149	0.375	0.409	0.307	N.A.	N.A.	N.A.	N.A.
1.250	1.524	2.021	2.562	3.031	3.675	3.575	3.312	3.942	4.089	N.A.	N.A.	N.A.
1.506	1.880	1.930	1.798	2.044	2.545	3.000	3.216	3.575	3.816	N.A.	N.A.	N.A.
2.351	2.575	2.932	3.465	3.671	3.549	3.824	3.637	3.536	3.803	3.757	3.630	3.610
1.287	1.435	1.547	1.574	1.827	1.507	1.759	1.995	1.928	2.222	N.A.	N.A.	N.A.
0.533	0.556	0.616	0.722	0.586	0.553	0.730	0.698	0.686	0.628	N.A.	N.A.	N.A.
0.533	0.653	0.602	0.550	0.584	0.586	0.540	0.461	0.437	N.A.	N.A.	N.A.	N.A.
-0.017	-0.018	0.055	-0.032	0.104	0.093	0.210	0.221	0.146	N.A.	N.A.	N.A.	N.A.
0.928	1.075	1.377	1.744	1.918	1.855	1.742	1.457	1.539	1.596	1.634	1.672	N.A.
0.913	1.096	1.063	0.920	0.996	1.046	1.157	1.195	1.199	1.250	N.A.	N.A.	N.A.
34.2	30.4	28.4	29.0	29.2	30.1	31.1	32.3	29.5	28.6	31.6	30.9	32.2
26.2	31.1	37.2	40.2	38.4	36.3	37.1	32.3	36.5	35.8	34.6	34.6	32.8
39.6	38.5	34.5	30.8	32.5	33.6	31.9	35.4	34.1	35.6	33.9	34.5	34.9
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.
1.177	1.460	1.927	2.585	2.632	2.654	2.529	2.163	1.772	1.924	2.096	1.813	1.550
1.193	1.614	1.485	1.299	1.522	1.452	1.741	1.711	1.240	1.233	1.151	1.073	1.100
0.069	0.078	0.625	1.470	1.326	1.408	1.017	0.677	0.695	0.856	1.095	0.881	N.A.
-0.076	-0.475	-0.160	0.474	0.402	0.492	0.189	-0.192	-0.029	0.095	0.345	0.282	N.A.
0.022	-0.409	-0.326	-0.253	-0.170	-0.039	0.202	-0.177	-0.221	0.125	0.104	0.129	N.A.
0.9550	0.9517	0.9647	0.9782	1.0113	1.2798	1.3191	1.4380	2.0736	2.5708	2.7822	3.3887	3.8952
0.4953	0.5143	0.4971	0.4740	0.4961	0.5555	0.5854	0.6201	0.6945	0.7167	0.7755	0.8144	0.8997
130.9	140.0	144.1	140.5	146.6	165.9	180.0	194.2	220.3	230.9	253.3	270.6	303.7
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.
40.4	43.2	45.1	47.3	48.7	57.1	63.7	66.3	75.3	86.5	100.0	109.3	122.2
-3.01	9.55	13.85	18.20	5.94	-3.31	7.73	-4.89	-2.78	7.56	-1.23	-3.38	-0.54
2.39	2.46	2.53	2.56	2.64	2.70	2.65	2.61	2.56	2.52	2.48	2.42	2.36
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	7.0	4.3	5.0	2.9	17.3	11.6	4.0	13.6	14.9	15.6	9.3	11.8



## Original Table (Energy Demand and Supply) of Papua New Guinea in 2002

Year:2002

Papua New Guinea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
CRUDE OIL AND NGL/CONDENSATE	2,976,243.34	kL	0.0359	TJ/kL	106,847.14	TJ
NATURAL GAS AND LNG	5,480.90	Mft <sup>3</sup>	1.1000	TJ/Mft <sup>3</sup>	6,028.99	TJ
HYDRO POWER	930.40	GWh	3.6000	TJ/GWh	3,349.44	TJ
<b>TOTAL PRODUCTION</b>					116,225.57	TJ
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						TJ
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						TJ
<b>STOCK CHANGE</b>						
TOTAL STOCK CHANGE						TJ
<b>IMPORTS</b>						
LPG	18,203.48	kL	0.0253	TJ/kL	460.55	TJ
NAPHTHA	10,890.52	kL	0.0346	TJ/kL	376.81	TJ
MOGAS	110,115.26	kL	0.0346	TJ/kL	3,809.99	TJ
JET FUEL	92,059.16	kL	0.0332	TJ/kL	3,056.36	TJ
KEROSENE	40,957.83	kL	0.0368	TJ/kL	1,507.25	TJ
DIESEL OIL	634,494.43	kL	0.0388	TJ/kL	24,618.38	TJ
FUEL OIL	359,161.76	kL	0.0408	TJ/kL	14,653.80	TJ
OTHER PETROLEUM PRODUCTS	12,948.87	kL	0.0388	TJ/kL	502.42	TJ
<b>TOTAL IMPORTS</b>					48,985.56	TJ
<b>EXPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	2,976,243.34	kL	0.0359	TJ/kL	106,847.14	TJ
<b>TOTAL EXPORTS</b>					106,847.14	TJ
<b>INTERNATIONAL MARINE BUNKERS</b>						TJ
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					58,363.99	TJ
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
DIESEL OIL	23,739.59	kL	0.0388	TJ/kL	921.10	TJ
FUEL OIL	139,560.00	kL	0.0408	TJ/kL	5,694.05	TJ
HYDRO POWER	546.61	GWh	3.6000	TJ/GWh	1,967.80	TJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
DIESEL OIL	44,241.96	kL	0.0388	TJ/kL	1,716.59	TJ
FUEL OIL	202,156.76	kL	0.0408	TJ/kL	8,248.00	TJ
NATURAL GAS AND LNG	5,214.47	Mft <sup>3</sup>	1.1000	TJ/Mft <sup>3</sup>	5,735.92	TJ
HYDRO POWER	383.79	GWh	3.6000	TJ/GWh	1,381.64	TJ
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>GAS RECOVERING</b>						
<b>REFINING</b>						
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	662.91	GWh	3.6000	TJ/GWh	2,386.48	TJ
HYDRO POWER	546.61	GWh	3.6000	TJ/GWh	1,967.80	TJ
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	1,290.93	GWh	3.6000	TJ/GWh	4,647.35	TJ
HYDRO POWER	383.79	GWh	3.6000	TJ/GWh	1,381.64	TJ
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
ELECTRICITY	162.82	GWh	3.6000	TJ/GWh	586.15	TJ
<b>TOTAL LOSSES AND OWN USE</b>					586.15	TJ
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
LPG	18,203.48	kL	0.0253	TJ/kL	460.55	TJ
NAPHTHA	10,890.52	kL	0.0346	TJ/kL	376.81	TJ
MOGAS	110,115.26	kL	0.0346	TJ/kL	3,809.99	TJ
JET FUEL	92,059.16	kL	0.0332	TJ/kL	3,056.36	TJ
KEROSENE	40,957.83	kL	0.0368	TJ/kL	1,507.25	TJ
FUEL OIL	17,445.00	kL	0.0408	TJ/kL	711.76	TJ
OTHER PETROLEUM PRODUCTS	12,948.87	kL	0.0388	TJ/kL	502.42	TJ
ELECTRICITY	2,721.42	GWh	3.6000	TJ/GWh	9,797.11	TJ
<b>TOTAL</b>					20,222.24	TJ
<b>AGRICULTURE</b>						
<b>TOTAL</b>						TJ
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	3,309.72	kL	0.0253	TJ/kL	83.74	TJ
KEROSENE	40,957.83	kL	0.0368	TJ/kL	1,507.25	TJ
ELECTRICITY	721.06	GWh	3.6000	TJ/GWh	2,595.82	TJ
<b>TOTAL</b>					4,186.80	TJ
<b>OTHERS</b>						
<b>TOTAL</b>						TJ
<b>INDUSTRY</b>						
LPG	14,893.75	kL	0.0253	TJ/kL	376.81	TJ
NAPHTHA	10,890.52	kL	0.0346	TJ/kL	376.81	TJ
DIESEL OIL	377,675.26	kL	0.0388	TJ/kL	14,653.80	TJ
FUEL OIL	12,314.12	kL	0.0408	TJ/kL	502.42	TJ
ELECTRICITY	2,000.36	GWh	3.6000	TJ/GWh	7,201.30	TJ
<b>TOTAL</b>					23,111.14	TJ
<b>TRANSPORT</b>						

Original Table (Energy Demand and Supply) of Papua New Guinea in 2002 (Continued)

Year:2002

Papua New Guinea	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
MOGAS	110,115.26	kL	0.0346	TJ/kL	3,809.99	TJ
JET FUEL	92,059.16	kL	0.0332	TJ/kL	3,056.36	TJ
DIESEL OIL	188,837.63	kL	0.0388	TJ/kL	7,326.90	TJ
FUEL OIL	5,130.88	kL	0.0408	TJ/kL	209.34	TJ
TOTAL					14,402.59	TJ
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	12,948.87	kL	0.0388	TJ/kL	502.42	TJ
TOTAL NON-ENERGY USE					502.42	TJ

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
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 2002

	Unit	
OPERATING RATE	%	
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	

## NON-COMMERCIAL ENERGY TABLE

At the time of 2002  
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 2001

	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
<b>1 Indigenous Production</b>	13	-	4,705	-	-	-	-	-	-
<b>2 Import</b>	341	131	3,744	1,240	46	-	-	46	858
<b>3 Export</b>	-	-	-945	-1,891	-338	-	-	-92	-57
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	81	6	208	-162	-273	-	-	77	-1
<b>6 Total Primary Energy Supply</b>	435	137	7,712	-813	-564	-	-	30	800
<b>7 Public Electricity</b>	-89	-	-	-245	-	-	-	-	-47
<b>8 Autoproducers of Electricity</b>	-	-	-	-280	-	-	-	-	-221
<b>9 Gas Processing</b>	-	-87	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-8,114	8,164	1,619	-	-	1,097	1,884
<b>11 Coal Transformation</b>	-32	19	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	0	-	-367	-3	-	-	-25	-107
<b>13 Discrepancy</b>	16	-16	402	-3	0	-	-	-2	0
<b>14 Total Final Energy Consumption</b>	329	53	-	6,457	1,051	-	-	1,099	2,309
<b>15 Industry Sector</b>	329	53	-	1,796	14	-	-	33	398
<b>16 Transport Sector</b>	-	-	-	3,199	896	-	-	369	1,877
<b>17 Other Sector</b>	0	-	-	1,322	141	-	-	697	34
<b>18 Agriculture</b>	0	-	-	43	14	-	-	0	8
<b>19 Residential &amp; Commercial</b>	-	-	-	1,060	0	-	-	632	4
<b>20 Other</b>	-	-	-	219	127	-	-	66	22
<b>21 Non-energy</b>	-	-	-	139	-	-	-	-	-

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

Energy Balance Table of Peru in 2001 (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
-	-	-	-	1,614	-	1,515	-	54	-	-	-	7,900
-	226	-	65	-	-	-	-	-	-	-	-	5,457
-1,402	-	-	-1	-	-	-	-	-	-	-	-	-2,835
-	-	-	-	-	-	-	-	-	-	-	-	-
19	-17	-	33	-	-	-	-	-	-	-	-	132
-1,384	209	-	96	1,614	-	1,515	-	54	-	-	-	10,653
-198	-	-	-	-218	-	-1,478	-	-	-	1,652	-	-378
-56	-	-	-2	-25	-	-37	-	-	-	135	-	-206
-	-	-	-	-191	-	-	-	-	-	-	-	-279
3,139	280	102	43	-	-	-	-	-	-	-	-	50
-	-	-	-	-	-	-	-	-	-	-	-	-13
-132	-	-99	-	-277	-	-	-	-	-	-25	-	-670
0	0	-3	2	-902	-	0	-	-	-	-192	-	-695
1,369	489	-	139	0	-	-	-	54	-	1,570	-	8,462
1,291	61	-	-	-	-	-	-	-	-	934	-	3,112
48	9	-	-	-	-	-	-	-	-	-	-	3,199
30	419	-	-	0	-	-	-	54	-	636	-	2,012
21	0	-	-	-	-	-	-	-	-	44	-	87
5	419	-	-	0	-	-	-	54	-	565	-	1,678
4	0	-	-	-	-	-	-	-	-	27	-	246
-	-	-	139	-	-	-	-	-	-	-	-	139

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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	8,185	7,571	7,743	7,564	8,042	8,613	8,568	6,920	7,537
Indigenous Production	11,095	10,273	11,247	11,426	10,957	10,162	9,000	8,351	8,193
Import	195	346	125	109	339	1,025	2,004	663	1,668
Export	-3,191	-3,035	-3,501	-3,949	-3,173	-2,684	-2,305	-2,213	-2,267
Final Energy Consumption	6,214	5,678	5,916	5,842	6,282	6,892	6,859	6,137	6,208
Industry	2,224	1,810	1,978	2,070	2,154	2,294	2,171	1,913	1,958
Transport	2,260	2,259	2,271	2,121	2,263	2,598	2,608	2,364	2,499
Residential & Commercial	1,216	1,212	1,240	1,239	1,367	1,506	1,563	1,415	1,274
Agriculture	184	110	76	95	72	88	143	101	107
<b>Coal, Coal Products</b>									
Primary Energy Supply	142	138	110	115	163	184	181	201	145
Indigenous Production	29	63	72	89	104	76	84	87	68
Import	124	59	34	81	121	100	113	104	71
Export	-	-	-	-13	-15	-	-	-	-
Transformation Sector	18	-1	-15	6	18	16	19	-	-1
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	53	79	83	112	118	110	111	122	100
Industry	53	78	83	105	111	103	101	111	93
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	7	7	7	10	11	7
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	7,532	7,499	8,534	8,400	8,368	8,498	8,050	6,620	7,149
Indigenous Production	9,869	8,771	9,557	9,656	9,084	8,243	7,137	6,568	6,493
Import	-	-	-	-	-	280	1,212	51	888
Export	-2,383	-1,156	-1,022	-1,290	-669	-156	-255	-50	-150
Transformation Sector	-7,379	-7,738	-8,825	-8,841	-8,727	-8,721	-8,329	-7,589	-7,432
Petroleum Refineries	-7,379	-7,738	-8,825	-8,841	-8,727	-8,721	-8,329	-7,589	-7,432
<b>Petroleum Products</b>									
Primary Energy Supply	-686	-1,505	-2,519	-2,632	-2,258	-1,912	-1,442	-1,597	-1,389
Import	71	287	91	28	218	645	679	508	709
Export	-808	-1,879	-2,479	-2,646	-2,489	-2,528	-2,050	-2,163	-2,117
Transformation Sector	6,102	6,524	7,528	7,710	7,558	7,678	7,275	6,517	6,456
Power Generation	-857	-720	-807	-685	-705	-733	-778	-793	-760
Petroleum Refineries	7,268	7,542	8,658	8,589	8,534	8,665	8,308	7,527	7,449
Final Energy Consumption	5,332	4,720	4,812	4,705	5,084	5,663	5,670	5,007	5,020
Industry	1,669	1,231	1,293	1,359	1,393	1,526	1,440	1,214	1,210
Transport	2,260	2,259	2,271	2,121	2,263	2,598	2,608	2,364	2,499
Residential & Commercial	918	867	857	850	969	1,086	1,142	1,003	854
Agriculture	155	77	41	58	33	47	106	82	87
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	594	741	881	874	919	927	882	802	757
Indigenous Production	594	741	881	874	919	927	882	802	757
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-512	-313	-244	-599	-608	-562	-572	-475	-482
Power Generation	-55	-22	-72	-78	-89	-87	-91	-71	-75
Final Energy Consumption	80	51	115	108	105	85	95	83	74
Industry	41	19	44	47	55	42	51	34	28
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	39	32	70	61	50	43	44	49	46
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	863	919	1,007	1,042	1,113	1,186	1,165	1,149	1,132
Thermal	260	221	270	235	263	270	268	255	257
Hydro	603	698	737	807	850	916	897	894	875
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	749	828	906	917	975	1,034	983	925	1,014
Industry	461	482	558	559	595	623	579	554	627
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	259	313	313	321	341	370	367	352	367
Agriculture	29	33	35	37	39	41	37	19	20

## Major Energy Indicators of Peru (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
7,455	7,334	8,251	8,872	9,450	9,796	10,354	10,282	9,369	11,047	10,653	10,757	
7,511	7,419	8,233	8,405	8,124	8,051	8,006	8,106	7,918	7,832	7,900	7,968	
2,429	2,636	2,244	2,509	4,346	4,570	5,826	6,462	4,691	5,397	5,457	5,817	
-2,394	-2,659	-2,411	-2,094	-2,561	-2,836	-3,499	-3,817	-2,452	-2,094	-2,835	-2,918	
6,229	6,124	6,472	6,907	7,692	8,169	8,159	8,135	8,563	9,200	8,462	8,644	
2,465	2,002	2,224	2,218	2,562	2,836	2,756	2,682	2,941	3,336	3,112	3,336	
2,233	2,387	2,453	2,812	3,055	3,256	3,236	3,304	3,406	3,386	3,199	2,998	
1,074	1,297	1,212	1,201	1,330	1,414	1,421	1,492	1,517	1,566	1,678	1,695	
106	58	102	107	132	154	151	161	173	107	87	85	
281	275	308	354	375	394	408	447	413	630	572	783	
39	61	57	43	35	15	15	15	15	12	13	15	
228	217	216	341	338	340	386	425	451	588	472	734	
-	-	-	-	-	-	-	-	-	-	-	-	
-60	-24	-89	-67	-57	-75	-110	-94	-40	-180	-190	-314	
-	-	-	-	-	-	-	-	-	-99	-89	-225	
197	296	289	294	290	314	321	357	343	430	382	483	
185	290	278	286	282	307	315	345	306	430	382	483	
-	-	-	-	-	-	-	-	-	-	-	-	
12	7	8	8	8	7	6	7	6	-	-	-	
-	-	-	-	-	-	-	2	2	0	0	-	
7,437	7,287	7,725	7,579	6,974	6,783	7,703	8,252	5,994	7,268	7,712	7,512	
5,798	5,854	6,379	6,431	6,151	6,077	5,973	5,732	5,179	4,829	4,705	4,687	
1,715	1,466	1,176	1,094	2,419	2,842	4,038	4,784	2,931	3,090	3,744	3,728	
-52	-43	-	-	-1,419	-1,885	-2,303	-2,171	-1,466	-687	-945	-1,082	
-7,621	-7,546	-7,846	-7,721	-7,473	-7,516	-8,326	-8,570	-7,773	-7,740	-8,114	-8,060	
-7,621	-7,546	-7,846	-7,721	-7,473	-7,516	-8,326	-8,570	-7,773	-7,740	-8,114	-8,060	
-1,937	-1,731	-1,580	-992	162	660	224	-777	238	158	-813	-805	
486	953	853	1,073	1,589	1,388	1,402	1,253	1,308	1,720	1,240	1,356	
-2,341	-2,616	-2,411	-2,094	-1,142	-950	-1,196	-1,647	-987	-1,407	-1,891	-1,836	
6,791	6,376	6,557	6,286	6,131	5,988	6,338	7,182	6,557	6,710	7,272	7,243	
-598	-1,070	-806	-782	-926	-1,066	-1,139	-996	-853	-686	-525	-522	
7,603	7,646	7,701	7,396	7,389	7,407	7,858	8,506	7,770	7,763	8,164	8,104	
4,872	4,895	5,157	5,543	6,292	6,641	6,563	6,406	6,800	7,225	6,457	6,438	
1,616	1,212	1,345	1,306	1,631	1,819	1,694	1,534	1,803	2,021	1,796	1,861	
2,233	2,387	2,453	2,812	3,055	3,256	3,236	3,304	3,406	3,386	3,199	2,998	
598	899	809	781	894	939	924	956	965	1,027	1,060	1,040	
74	27	72	76	100	119	114	118	130	65	43	38	
708	671	794	828	827	813	882	1,171	1,473	1,547	1,614	1,660	
708	671	794	828	827	813	882	1,171	1,473	1,547	1,614	1,660	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-426	-379	-291	-36	-314	-453	-379	-526	-724	-691	-711	-1,124	
-71	-57	-56	-55	-58	-18	-104	-235	-271	-226	-243	-304	
71	29	4	6	3	4	3	4	1	1	0	5	
25	-	2	2	-	-	-	-	-	-	-	5	
-	-	-	-	-	-	-	-	-	-	-	-	
46	19	3	3	3	4	3	4	1	1	0	0	
-	-	-	-	-	-	-	-	-	-	-	-	
1,195	1,121	1,263	1,362	1,449	1,486	1,544	1,599	1,638	1,713	1,788	1,890	
229	288	259	260	337	340	407	411	388	322	273	339	
966	833	1,004	1,102	1,112	1,146	1,136	1,188	1,250	1,391	1,515	1,551	
-	-	-	-	-	-	-	-	-	-	-	-	
1,089	904	1,021	1,064	1,106	1,209	1,272	1,368	1,418	1,490	1,570	1,663	
639	500	599	625	649	710	747	803	832	884	934	988	
-	-	-	-	-	-	-	-	-	-	-	-	
418	373	392	408	424	464	488	525	544	538	565	600	
32	31	30	31	32	35	37	40	42	42	44	47	



## Major Economic Indicators of Peru

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	17.32	18.64	19.07	19.49	19.91	20.33	20.74	21.15
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	44.50	41.81	43.99	45.22	49.74	53.72	49.05	43.31
Real Term (Billions of 1995 Price and 1995 PPP)	83.56	78.51	82.60	84.91	93.40	100.87	92.10	81.32
Nominal (Billions of Current USD)	20.66	19.13	19.85	17.16	25.78	42.60	24.02	31.02
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	2,569	2,244	2,307	2,320	2,498	2,643	2,365	2,047
Real Term (1995 Price and 1995 PPP)	4,823	4,213	4,332	4,356	4,691	4,963	4,441	3,844
Nominal (Current USD)	1,193	1,026	1,041	881	1,295	2,096	1,158	1,467
Nominal GDP & its Components (Billions of Current PEN) *1								
Gross Domestic Product	5.968E-6	3.115E-5	6.880E-5	1.884E-4	3.596E-4	7.172E-4	3.094E-3	8.272E-2
Household Final Consumption Expenditure, etc.	3.431E-6	2.004E-5	4.521E-5	1.235E-4	2.530E-4	5.041E-4	1.850E-3	5.683E-2
General Government Final Consumption Expenditure	6.280E-7	3.486E-6	6.682E-6	1.792E-5	3.465E-5	7.152E-5	3.203E-4	8.656E-3
Gross Fixed Capital Formation	1.493E-6	7.390E-6	1.443E-5	3.429E-5	7.364E-5	1.427E-4	9.670E-4	1.442E-2
Stock Change	2.387E-7	1.719E-7	-2.206E-7	4.140E-7	3.232E-6	1.141E-5	7.300E-5	2.704E-3
Exports of Goods and Services	1.337E-6	6.140E-6	1.331E-5	4.327E-5	5.013E-5	7.866E-5	5.828E-4	1.025E-2
Imports of Goods and Services	1.159E-6	6.074E-6	1.060E-5	3.100E-5	5.510E-5	9.121E-5	6.995E-4	1.014E-2
Real GDP & its Components (Billions of 1994 PEN) *1								
Gross Domestic Product	88.80	83.45	87.78	90.24	99.27	107.21	97.88	86.43
Household Final Consumption Expenditure, etc.	64.02	62.23	66.19	68.79	75.48	81.04	74.50	66.14
General Government Final Consumption Expenditure	7.19	8.63	8.08	8.45	9.17	9.56	8.05	6.51
Gross Fixed Capital Formation	16.36	13.07	12.61	10.77	14.25	16.40	16.76	12.26
Stock Change	3.49	0.71	0.19	0.30	1.13	3.10	0.81	0.59
Exports of Goods and Services	9.03	8.98	9.62	10.09	9.13	8.43	7.58	9.00
Imports of Goods and Services	11.28	10.18	8.90	8.17	9.91	11.33	9.81	8.07
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	6.3	6.8	7.3	7.4	7.1	6.8	8.0	8.7
Industry	26.4	23.7	24.0	24.0	25.9	27.1	25.3	24.8
Services, etc.	57.6	60.6	59.7	59.7	57.6	56.4	57.6	57.6
Manufacturing Production Index (2000=100) *2	89.7	70.1	75.3	80.0	94.4	107.6	93.8	75.6
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	3.898	3.015	3.147	2.979	2.531	2.661	2.701	3.488
Imports, c.i.f.	2.573	2.234	1.881	1.835	2.391	3.003	3.109	2.009
Balance of Payments (Billions of Current USD) *2								
Trade Balance	0.826	0.293	1.007	1.219	-0.073	-0.500	-0.134	1.246
Current Account	-0.101	-0.875	-0.235	0.102	-1.393	-2.065	-1.819	-0.570
Overall Balance	0.279	-1.061	-1.571	-1.594	-2.746	-3.867	-3.056	-2.610
Foreign Exchange Rate (PEN/USD) *1	2.889E-7	1.629E-6	0.00000	0.00001	1.395E-5	1.684E-5	1.288E-4	0.00267
Purchasing Power Parity (PEN/International Dollar) *1	1.212E-7	5.504E-7	0.00000	0.00000	4.947E-6	8.889E-6	3.776E-5	0.00106
Price Indices								
GDP Deflator (1994=100) *3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wholesale Price Index (2000=100) *2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Consumer Price Index (2000=100) *2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Growth Rate (%) *3								
Real GDP	3.08	-11.80	5.20	2.80	10.00	8.00	-8.70	-11.70
Population	2.59	2.40	2.31	2.22	2.15	2.08	2.04	1.99
Price								
Wholesale Price Index	N.A.	113.0	120.1	173.9	60.3	51.5	627.9	2,510.3
Consumer Price Index	59.1	111.1	110.2	163.4	77.9	85.8	667.0	3,398.7

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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
21.57	22.00	22.44	22.89	23.36	23.84	24.30	24.74	25.16	25.56	25.94	26.35	26.75
41.08	41.97	41.79	43.78	49.40	53.64	54.97	58.73	58.35	58.88	60.54	60.70	63.64
77.14	78.81	78.47	82.21	92.75	100.71	103.22	110.29	109.57	110.56	113.68	113.97	119.50
28.97	34.54	36.08	34.83	44.91	53.64	55.81	59.03	56.64	51.42	53.09	53.66	56.43
1,905	1,908	1,862	1,913	2,115	2,250	2,262	2,374	2,319	2,303	2,334	2,304	2,379
3,576	3,583	3,497	3,591	3,971	4,225	4,248	4,458	4,354	4,325	4,383	4,326	4,468
1,343	1,570	1,608	1,522	1,923	2,250	2,297	2,386	2,251	2,011	2,047	2,037	2,110
5.443	26.686	44.953	69.262	98.577	120.858	136.929	157.274	165.949	173.957	185.281	188.172	198.437
4.011	20.607	34.934	52.996	71.306	85.933	98.598	110.782	118.269	122.261	131.565	136.040	142.960
0.430	2.067	3.566	5.568	8.672	11.786	13.827	15.487	17.296	18.854	19.717	20.290	20.703
0.878	4.417	7.405	12.697	20.901	29.095	30.747	37.472	39.163	37.867	37.610	34.862	35.128
0.019	0.197	0.375	0.679	1.030	0.918	0.537	0.479	0.159	-0.973	-0.066	0.220	1.436
0.858	3.260	5.628	8.627	12.590	15.118	17.975	22.272	22.076	25.855	29.851	30.020	32.612
0.753	3.862	6.954	11.304	15.922	21.991	24.754	29.219	31.014	29.907	33.396	33.260	34.402
81.98	83.76	83.40	87.37	98.58	107.04	109.71	117.21	116.45	117.51	120.83	121.13	127.01
60.90	62.99	62.79	64.94	71.31	78.20	80.58	84.08	83.38	83.06	85.95	87.16	91.07
7.38	7.53	7.74	7.98	8.67	9.41	9.82	10.57	10.83	11.21	11.56	11.57	11.76
13.72	13.93	14.06	15.63	20.90	25.47	24.74	28.52	28.11	24.99	23.74	21.78	21.63
0.21	0.64	0.70	0.86	1.03	0.91	0.36	0.31	0.14	-0.53	-0.04	0.12	1.09
9.26	9.80	10.23	10.55	12.59	13.29	14.47	16.36	17.27	18.59	20.07	21.49	22.95
9.50	11.13	12.11	12.57	15.92	20.23	20.26	22.72	23.25	19.72	20.43	21.00	21.49
8.5	8.5	8.0	8.2	8.3	8.2	8.4	8.3	8.3	9.1	9.5	9.4	9.5
25.9	24.5	24.2	24.8	26.2	26.0	25.7	26.0	25.9	25.5	25.4	25.7	26.1
56.4	57.7	58.2	57.4	55.7	55.6	55.9	55.6	55.6	55.7	55.4	55.3	54.9
70.2	74.9	72.5	74.9	87.4	92.2	93.6	98.6	95.1	94.4	100.0	100.3	104.5
3.230	3.329	3.484	3.514	4.554	5.575	5.897	6.841	5.757	6.113	7.028	7.100	7.688
2.634	2.813	3.964	4.231	5.626	7.584	7.947	8.588	8.220	7.404	7.415	7.316	7.523
0.399	-0.189	-0.340	-0.776	-1.075	-2.241	-1.991	-1.678	-2.437	-0.655	-0.411	-0.195	0.306
-1.419	-1.504	-1.886	-2.464	-2.701	-4.625	-3.646	-3.367	-3.321	-1.464	-1.559	-1.159	-1.127
-2.141	-0.504	-0.922	-0.359	1.553	-0.590	0.880	2.055	-1.241	-0.862	-0.130	0.432	1.010
0.18789	0.77250	1.24583	1.98832	2.19500	2.25333	2.45333	2.66417	2.93000	3.38333	3.49000	3.50683	3.51650
0.08024	0.35808	0.61210	0.87509	1.08225	1.20002	1.31056	1.38785	1.44879	1.47675	1.50469	1.49745	1.48000
6.6	31.9	53.9	79.3	100.0	112.9	124.8	134.2	142.5	148.0	153.3	155.3	156.2
5.9	24.0	37.7	55.6	65.6	72.5	79.3	85.2	91.4	95.8	100.0	101.4	100.3
4.0	20.2	35.1	52.2	64.5	71.7	80.0	86.9	93.1	96.4	100.0	102.0	102.2
-5.14	2.17	-0.43	4.76	12.82	8.58	2.49	6.84	-0.65	0.91	2.82	0.25	4.85
1.97	1.98	2.00	2.02	2.04	2.06	1.94	1.82	1.71	1.59	1.47	1.57	1.53
6,737.4	306.3	57.2	47.6	17.9	10.5	9.4	7.4	7.3	4.9	4.3	1.4	-1.0
7,481.7	409.5	73.5	48.6	23.7	11.1	11.5	8.6	7.2	3.5	3.8	2.0	0.2

## Original Table (Energy Demand and Supply) of Peru in 2002

Year:2002

Peru	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	22.08	103 t	0.7000	TOE/t	15.46	ktoe
CRUDE OIL AND NGL/CONDENSATE	33,862.39	103 bbl	0.1384	TOE/bbl	4,686.55	ktoe
CRUDE OIL	33,862.39	103 bbl	0.1384	TOE/bbl	4,686.55	ktoe
NATURAL GAS AND LNG	70,956.44	106 ft3	0.0234	ktoe/106 ft3	1,660.38	ktoe
NATURAL GAS	70,956.44	106 ft3	0.0234	ktoe/106 ft3	1,660.38	ktoe
HYDRO POWER	18,040.13	GWh	0.0860	ktoe/GWh	1,551.45	ktoe
SOLAR HEAT	634.52	GWh	0.0860	ktoe/GWh	54.57	ktoe
<b>TOTAL PRODUCTION</b>					7,968.41	ktoe
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						ktoe
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						ktoe
<b>STOCK CHANGE</b>						
COAL	76.47	103 t	0.7300	TOE/t	55.82	ktoe
COKE	-34.32	103 t	0.6400	TOE/t	-21.97	ktoe
CRUDE OIL AND NGL/CONDENSATE	1,299.53	103 bbl	0.1384	TOE/bbl	179.86	ktoe
CRUDE OIL	1,299.53	103 bbl	0.1384	TOE/bbl	179.86	ktoe
LPG	-83.65	103 bbl	0.0950	TOE/bbl	-7.95	ktoe
MOGAS	-1,812.83	103 bbl	0.1220	TOE/bbl	-221.17	ktoe
KEROSENE	-258.37	103 bbl	0.1330	TOE/bbl	-34.36	ktoe
DIESEL OIL	25.69	103 bbl	0.1380	TOE/bbl	3.55	ktoe
FUEL OIL	128.49	103 bbl	0.1470	TOE/bbl	18.89	ktoe
OTHER PETROLEUM PRODUCTS	-607.31	103 bbl	0.1380	TOE/bbl	-83.81	ktoe
<b>TOTAL STOCK CHANGE</b>					-111.14	ktoe
COAL	811.61	103 t	0.7300	TOE/t	592.48	ktoe
COKE	220.58	103 t	0.6400	TOE/t	141.17	ktoe
CRUDE OIL AND NGL/CONDENSATE	26,934.86	103 bbl	0.1384	TOE/bbl	3,727.78	ktoe
CRUDE OIL	26,934.86	103 bbl	0.1384	TOE/bbl	3,727.78	ktoe
LPG	2,862.12	103 bbl	0.0950	TOE/bbl	271.90	ktoe
MOGAS	410.26	103 bbl	0.1220	TOE/bbl	50.05	ktoe
KEROSENE	1,486.72	103 bbl	0.1330	TOE/bbl	197.73	ktoe
DIESEL OIL	5,536.47	103 bbl	0.1380	TOE/bbl	764.03	ktoe
OTHER PETROLEUM PRODUCTS	520.91	103 bbl	0.1380	TOE/bbl	71.89	ktoe
<b>TOTAL IMPORTS</b>					5,817.04	ktoe
<b>EXPORTS</b>						
CRUDE OIL	7,818.98	103 bbl	0.1384	TOE/bbl	1,082.15	ktoe
MOGAS	2,296.35	103 bbl	0.1220	TOE/bbl	280.15	ktoe
KEROSENE	1,414.99	103 bbl	0.1330	TOE/bbl	188.19	ktoe
DIESEL OIL	359.45	103 bbl	0.1380	TOE/bbl	49.60	ktoe
FUEL OIL	8,909.41	103 bbl	0.1470	TOE/bbl	1,309.68	ktoe
OTHER PETROLEUM PRODUCTS	57.52	103 bbl	0.1380	TOE/bbl	7.94	ktoe
<b>TOTAL EXPORTS</b>					2,917.72	ktoe
<b>INTERNATIONAL MARINE BUNKERS</b>						ktoe
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					10,756.60	ktoe
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	43.82	103 t	0.7300	TOE/t	31.99	ktoe
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	58,238.50	103 bbl	0.1384	TOE/bbl	8,060.21	ktoe
CRUDE OIL	58,238.50	103 bbl	0.1384	TOE/bbl	8,060.21	ktoe
<b>GAS PROCESSING</b>						
COKE	174.83	103 t	0.6400	TOE/t	111.89	ktoe
NAPHTHA	23,823.05	106 ft3	0.0234	ktoe/106 ft3	557.46	ktoe
NATURAL GAS	23,823.05	106 ft3	0.0234	ktoe/106 ft3	557.46	ktoe
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	307.66	103 t	0.7300	TOE/t	224.59	ktoe
DIESEL OIL	283.42	103 bbl	0.1380	TOE/bbl	39.11	ktoe
FUEL OIL	1,387.41	103 bbl	0.1470	TOE/bbl	203.95	ktoe
NATURAL GAS AND LNG	11,967.26	106 ft3	0.0234	ktoe/106 ft3	280.03	ktoe
NATURAL GAS	11,967.26	106 ft3	0.0234	ktoe/106 ft3	280.03	ktoe
HYDRO POWER	17,638.16	GWh	0.0860	ktoe/GWh	1,516.88	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
DIESEL OIL	1,640.66	103 bbl	0.1380	TOE/bbl	226.41	ktoe
FUEL OIL	346.54	103 bbl	0.1470	TOE/bbl	50.94	ktoe
NATURAL GAS AND LNG	1,013.20	106 ft3	0.0234	ktoe/106 ft3	23.71	ktoe
NATURAL GAS	1,013.20	106 ft3	0.0234	ktoe/106 ft3	23.71	ktoe
HYDRO POWER	401.97	GWh	0.0860	ktoe/GWh	34.57	ktoe
OTHER PETROLEUM PRODUCTS					1.32	ktoe
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	31.66	103 t	0.6400	TOE/t	20.26	ktoe
BLAST FURNACE GAS	571.43	106 m3	0.0600	ktoe/106 ft3	34.29	ktoe
<b>REFINING</b>						
REFINERY GAS	376.94	103 bbl	0.1876	TOE/bbl	70.71	ktoe
LPG	3,082.09	103 bbl	0.0950	TOE/bbl	292.80	ktoe
MOGAS	12,340.14	103 bbl	0.1220	TOE/bbl	1,505.50	ktoe
KEROSENE	8,374.03	103 bbl	0.1330	TOE/bbl	1,113.75	ktoe
DIESEL OIL	13,876.62	103 bbl	0.1380	TOE/bbl	1,914.97	ktoe
FUEL OIL	20,504.90	103 bbl	0.1470	TOE/bbl	3,014.22	ktoe

Original Table (Energy Demand and Supply) of Peru in 2002 (Continued)

Year:2002

Peru	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
OTHER PETROLEUM PRODUCTS	1,391.08	103 bbl	0.1380	TOE/bbl	191.97	ktoe
<b>GAS RECOVERING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	2,781.35	GWh	0.0860	ktoe/GWh	239.20	ktoe
HYDRO POWER	17,638.16	GWh	0.0860	ktoe/GWh	1,516.88	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	1,160.84	GWh	0.0860	ktoe/GWh	99.83	ktoe
HYDRO POWER	401.97	GWh	0.0860	ktoe/GWh	34.57	ktoe
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
BLAST FURNACE GAS	0.23	106 m3	0.0600	ktoe/106 m3	0.01	ktoe
REFINERY GAS	376.94	103 bbl	0.1876	TOE/bbl	70.71	ktoe
MOGAS	27.00	103 bbl	0.1220	TOE/bbl	3.29	ktoe
KEROSENE	191.00	103 bbl	0.1330	TOE/bbl	25.40	ktoe
DIESEL OIL	774.00	103 bbl	0.1380	TOE/bbl	106.81	ktoe
FUEL OIL	901.00	103 bbl	0.1470	TOE/bbl	132.45	ktoe
OTHER PETROLEUM PRODUCTS	2.00	103 bbl	0.1380	TOE/bbl	0.28	ktoe
NATURAL GAS AND LNG	11,216.93	106 ft3	0.0234	ktoe/106 ft3	262.48	ktoe
NATURAL GAS	11,216.93	106 ft3	0.0234	ktoe/106 ft3	262.48	ktoe
ELECTRICITY	370.95	GWh	0.0860	ktoe/GWh	31.90	ktoe
TOTAL LOSSES AND OWN USE					633.34	ktoe
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	581.01	103 t	0.7300	TOE/t	424.13	ktoe
COKE	45.47	103 t	0.6400	TOE/t	29.10	ktoe
BLAST FURNACE GAS	500.70	106 m3	0.0600	ktoe/106 m3	30.04	ktoe
LPG	5,860.56	103 bbl	0.0950	TOE/bbl	556.75	ktoe
MOGAS	8,614.21	103 bbl	0.1220	TOE/bbl	1,050.93	ktoe
KEROSENE	7,986.44	103 bbl	0.1330	TOE/bbl	1,062.20	ktoe
DIESEL OIL	16,381.26	103 bbl	0.1380	TOE/bbl	2,260.61	ktoe
FUEL OIL	9,089.03	103 bbl	0.1470	TOE/bbl	1,336.09	ktoe
NATURAL GAS AND LNG	228.82	106 ft3	0.0234	ktoe/106 ft3	5.35	ktoe
NATURAL GAS	228.82	106 ft3	0.0234	ktoe/106 ft3	5.35	ktoe
SOLAR HEAT	634.52	GWh	0.0860	ktoe/GWh	54.57	ktoe
ELECTRICITY	19,335.64	GWh	0.0860	ktoe/GWh	1,662.86	ktoe
TOTAL					8,472.65	ktoe
<b>AGRICULTURE</b>						
LPG	1.48	103 bbl	0.0950	TOE/bbl	0.14	ktoe
MOGAS	112.49	103 bbl	0.1220	TOE/bbl	13.72	ktoe
KEROSENE	1.62	103 bbl	0.1330	TOE/bbl	0.22	ktoe
DIESEL OIL	40.36	103 bbl	0.1380	TOE/bbl	5.57	ktoe
FUEL OIL	126.75	103 bbl	0.1470	TOE/bbl	18.63	ktoe
NATURAL GAS AND LNG		106 ft3		ktoe/106 ft3		ktoe
ELECTRICITY	548.86	GWh	0.0860	ktoe/GWh	47.20	ktoe
TOTAL					85.48	ktoe
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	4,766.81	103 bbl	0.0950	TOE/bbl	452.85	ktoe
MOGAS	1.48	103 bbl	0.1220	TOE/bbl	0.18	ktoe
KEROSENE	4,359.87	103 bbl	0.1330	TOE/bbl	579.86	ktoe
DIESEL OIL	21.97	103 bbl	0.1380	TOE/bbl	3.03	ktoe
FUEL OIL	29.73	103 bbl	0.1470	TOE/bbl	4.37	ktoe
NATURAL GAS AND LNG	3.23	106 ft3	0.0234	ktoe/106 ft3	0.08	ktoe
NATURAL GAS	3.23	106 ft3	0.0234	ktoe/106 ft3	0.08	ktoe
SOLAR HEAT	634.52	GWh	0.0860	ktoe/GWh	54.57	ktoe
ELECTRICITY	6,974.24	GWh	0.0860	ktoe/GWh	599.78	ktoe
TOTAL					1,694.72	ktoe
<b>OTHERS</b>						
LPG	5.64	103 bbl	0.0950	TOE/bbl	0.54	ktoe
MOGAS	1,043.55	103 bbl	0.1220	TOE/bbl	127.31	ktoe
KEROSENE	1,374.27	103 bbl	0.1330	TOE/bbl	182.78	ktoe
DIESEL OIL	111.98	103 bbl	0.1380	TOE/bbl	15.45	ktoe
FUEL OIL	24.87	103 bbl	0.1470	TOE/bbl	3.66	ktoe
ELECTRICITY	329.57	GWh	0.0860	ktoe/GWh	28.34	ktoe
TOTAL					358.08	ktoe
<b>INDUSTRY</b>						
COAL	580.82	103 t	0.7300	TOE/t	424.00	ktoe
COKE	45.47	103 t	0.6400	TOE/t	29.10	ktoe
BLAST FURNACE GAS	500.70	106 m3	0.0600	ktoe/106 m3	30.04	ktoe
LPG	941.61	103 bbl	0.0950	TOE/bbl	89.45	ktoe
MOGAS	117.25	103 bbl	0.1220	TOE/bbl	14.30	ktoe
KEROSENE	684.90	103 bbl	0.1330	TOE/bbl	91.09	ktoe
DIESEL OIL	2,889.33	103 bbl	0.1380	TOE/bbl	398.73	ktoe
FUEL OIL	8,618.78	103 bbl	0.1470	TOE/bbl	1,266.96	ktoe
NATURAL GAS AND LNG	225.60	106 ft3	0.0234	ktoe/106 ft3	5.28	ktoe
NATURAL GAS	225.60	106 ft3	0.0234	ktoe/106 ft3	5.28	ktoe
ELECTRICITY	11,482.96	GWh	0.0860	ktoe/GWh	987.53	ktoe
TOTAL					3,336.49	ktoe
<b>TRANSPORT</b>						
LPG	145.03	103 bbl	0.0950	TOE/bbl	13.78	ktoe
MOGAS	7,339.44	103 bbl	0.1220	TOE/bbl	895.41	ktoe
KEROSENE	1,565.78	103 bbl	0.1330	TOE/bbl	208.25	ktoe
DIESEL OIL	13,317.61	103 bbl	0.1380	TOE/bbl	1,837.83	ktoe
FUEL OIL	288.90	103 bbl	0.1470	TOE/bbl	42.47	ktoe

Original Table (Energy Demand and Supply) of Peru in 2002 (Continued)

Year:2002

Peru	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL					2,997.74	ktoe
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	1,245.16	103 bbl	0.1380	TOE/bbl	171.83	ktoe
TOTAL NON-ENERGY USE					171.83	ktoe

Note:

(\*) Included Coke Oven Gas

(\*\*) Industrial, Fishery and Mining are included

(\*\*\*) Public and non identified sector are included

(\*\*\*\*) Included Solar Heat + Photovoltaic power

**ELECTRICITY GENERATING CAPACITY**At the time of 2002  
unit: MW

THERMAL POWER	2,938	
COAL		
OIL		
GAS		
HYDRO POWER	2,996	
NUCLEAR POWER		
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTOVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	0.7	
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

**REFINING CAPACITY**

At the time of 2002

	Unit	
OPERATING RATE	%	
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	

**NON-COMMERCIAL ENERGY TABLE**At the time of 2002  
unit: ktoe

	WOOD	DUNG	BAGASSE	CHARCOAL	TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION	1,771.0	257.0	381.2	56.2	2,465.4
IMPORTS					
EXPORTS					
TOTAL	1,771.0	257.0	381.2	56.2	2,465.4
TRANSFORMATION(INPUT)	140.5		64.0		204.5
TRANSFORMATION(OUTPUT)				56.2	56.2
FINAL ENERGY CONSUMPTION					
AGRICULTURE	2.6	0.0	173.1	0.0	175.7
RESIDENTIAL COMMERCIAL	1,625.8	257.0	0.0	56.2	1,938.9
INDUSTRY	2.2	0.0	0.9	0.0	3.1
TRANSPORT	0.0	0.0	0.0	0.0	
TOTAL	1,630.5	257.0	174.0	56.2	2,117.7

## Original Table (Quarterly) of Peru in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	n.a.	n.a.	n.a.	-
	FEB.	n.a.	n.a.	n.a.	-
	MAR.	n.a.	n.a.	n.a.	-
	<b>1st quarter</b>	n.a.	n.a.	n.a.	-
	APR.	n.a.	n.a.	n.a.	-
	MAY.	n.a.	n.a.	n.a.	-
	JUN.	n.a.	n.a.	n.a.	-
	<b>2nd quarter</b>	n.a.	n.a.	n.a.	-
	JUL.	n.a.	n.a.	n.a.	-
	AUG.	n.a.	n.a.	n.a.	-
	SEP.	n.a.	n.a.	n.a.	-
	<b>3rd quarter</b>	n.a.	n.a.	n.a.	-
	OCT.	n.a.	n.a.	n.a.	-
	NOV.	n.a.	n.a.	n.a.	-
	DEC.	n.a.	n.a.	n.a.	-
	<b>4th quarter</b>	n.a.	n.a.	n.a.	-
		-	-	-	-

Oil		Unit: 1000 bbl					
		Crude Oil			Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports
2003	JAN.	2,887	2,293	759			
	FEB.	2,573	2,827	1,255			
	MAR.	2,903	2,678	725			
	<b>1st quarter</b>	8,363	7,798	2,739			
	APR.	2,837	3,173	752			
	MAY.	2,876	2,253	763			
	JUN.	2,844	2,127	1,213			
	<b>2nd quarter</b>	8,557	7,553	2,728			
	JUL.	2,797	3,271	746			
	AUG.	2,736	1,191	801			
	SEP.	2,696	2,987	380			
	<b>3rd quarter</b>	8,228	7,448	1,927			
	OCT.	2,776	2,254	1,614			
	NOV.	2,581	2,826	394			
	DEC.	2,837	2,553	1,145			
	<b>4th quarter</b>	8,194	7,632	3,153			
		33,343	30,431	10,548	-	-	-

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

Natural Gas ( or LNG)		Unit: Mft <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	5,176	-	-	-
	FEB.	4,892	-	-	-
	MAR.	5,519	-	-	-
	<b>1st quarter</b>	15,587	-	-	-
	APR.	5,297	-	-	-
	MAY.	5,625	-	-	-
	JUN.	5,597	-	-	-
	<b>2nd quarter</b>	16,520	-	-	-
	JUL.	5,772	-	-	-
	AUG.	5,168	-	-	-
	SEP.	5,658	-	-	-
	<b>3rd quarter</b>	16,598	-	-	-
	OCT.	5,935	-	-	-
	NOV.	5,584	-	-	-
	DEC.	5,505	-	-	-
	<b>4th quarter</b>	17,024	-	-	-
	65,730	-	-	-	

Electricity		Unit: GWh					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	1,878	197	1,682	-	-	-	-
	FEB.	1,742	205	1,537	-	-	-	-
	MAR.	1,915	231	1,684	-	-	-	-
	<b>1st quarter</b>	5,535	632	4,903	-	-	-	-
	APR.	1,843	168	1,675	-	-	-	-
	MAY.	1,894	284	1,610	-	-	-	-
	JUN.	1,839	374	1,465	-	-	-	-
	<b>2nd quarter</b>	5,575	826	4,750	-	-	-	-
	JUL.	1,881	429	1,452	-	-	-	-
	AUG.	1,885	428	1,457	-	-	-	-
	SEP.	1,834	431	1,403	-	-	-	-
	<b>3rd quarter</b>	5,600	1,288	4,312	-	-	-	-
	OCT.	1,929	471	1,458	-	-	-	-
	NOV.	1,875	463	1,412	-	-	-	-
	DEC.	1,933	276	1,656	-	-	-	-
	<b>4th quarter</b>	5,737	1,211	4,526	-	-	-	-
	22,447	3,956	18,491	-	-	-	-	

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.

## 3.15 Philippines



## Energy Balance Table of Philippines in 2001

	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
<b>1 Indigenous Production</b>	590	-	64	-	-	-	-	-	-
<b>2 Import</b>	3,644	-	15,003	2,957	651	-	242	47	1,210
<b>3 Export</b>	-	-	-	-1,370	-1	-718	-	0	-54
<b>4 International Marine Bunkers</b>	-	-	-	-215	-	-	-	-	-138
<b>5 Stock Changes</b>	46	-	-304	-230	-23	5	3	6	-117
<b>6 Total Primary Energy Supply</b>	4,280	-	14,762	1,141	627	-713	245	53	902
<b>7 Public Electricity</b>	-3,397	-	-	-2,471	-	-	-	-	-224
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-15,387	13,947	2,196	753	613	460	4,563
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-642	-	-	-	-	-	-
<b>13 Discrepancy</b>	-75	-	1,267	516	40	-36	3	-4	205
<b>14 Total Final Energy Consumption</b>	809	-	-	13,133	2,862	4	861	510	5,447
<b>15 Industry Sector</b>	696	-	-	1,656	-	-	-	35	320
<b>16 Transport Sector</b>	-	-	-	8,695	2,850	-	861	-	4,621
<b>17 Other Sector</b>	-	-	-	2,572	12	-	-	475	505
<b>18 Agriculture</b>	-	-	-	254	6	-	-	2	240
<b>19 Residential &amp; Commercial</b>	-	-	-	2,318	6	-	-	473	265
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	113	-	-	207	-	-	-	-	-

## 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
<b>1 Indigenous Production</b>	798	-	605	-	-	-	-	-	-
<b>2 Import</b>	3,310	-	12,616	4,283	799	28	174	60	1,892
<b>3 Export</b>	-	-	-333	-1,978	-	-524	-5	-	-148
<b>4 International Marine Bunkers</b>	-	-	-	-226	-	-	-	-	-81
<b>5 Stock Changes</b>	-57	-	114	185	30	20	-3	1	79
<b>6 Total Primary Energy Supply</b>	4,051	-	13,002	2,264	829	-475	166	62	1,742
<b>7 Public Electricity</b>	-3,214	-	-	-1,580	-	-	-	-	-184
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-12,234	11,993	2,072	515	641	410	4,008
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-459	-	-	-	-	-	-
<b>13 Discrepancy</b>	-99	-	-309	724	87	-11	25	-6	87
<b>14 Total Final Energy Consumption</b>	739	-	-	13,401	2,988	28	833	466	5,653
<b>15 Industry Sector</b>	651	-	-	1,664	-	-	-	33	475
<b>16 Transport Sector</b>	-	-	-	8,793	2,980	-	833	-	4,618
<b>17 Other Sector</b>	-	-	-	2,698	8	-	-	433	560
<b>18 Agriculture</b>	-	-	-	293	2	-	-	3	263
<b>19 Residential &amp; Commercial</b>	-	-	-	2,405	6	-	-	430	297
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	87	-	-	246	-	28	-	-	-

Energy Balance Table of Philippines in 2001 (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
-	-	-	-	135	-	611	-	8,980	1,801	-	-	12,181
202	600	-	4	-	-	-	-	-	-	-	-	21,604
-502	-16	-	-79	-	-	-	-	-	-	-	-	-1,370
-78	-	-	-	-	-	-	-	-	-	-	-	-215
-108	5	-	-1	-	-	-	-	-	-	-	-	-488
-486	589	-	-76	135	-	611	-	8,980	1,801	-	-	31,712
-2,248	-	-	-	-135	-	-611	-	-8,980	-1,801	4,683	-	-12,713
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
4,656	511	-	197	-	-	-	-	-	-	-	-	-1,439
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-680	-	-1,322
195	26	-	87	-	-	-	-	-	-	-637	-	1,071
2,117	1,126	-	207	-	-	-	-	-	-	3,366	-	17,308
1,236	65	-	-	-	-	-	-	-	-	1,243	-	3,594
363	-	-	-	-	-	-	-	-	-	90	-	8,784
518	1,061	-	-	-	-	-	-	-	-	2,033	-	4,605
5	-	-	-	-	-	-	-	-	-	-	-	254
513	1,061	-	-	-	-	-	-	-	-	2,033	-	4,352
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	207	-	-	-	-	-	-	-	-	320

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	1,818	-	-	14,359
566	672	-	90	-	-	-	-	-	-	-	-	20,210
-808	-5	-	-488	-	-	-	-	-	-	-	-	-2,311
-145	-	-	-	-	-	-	-	-	-	-	-	-226
58	-1	-	1	-	-	-	-	-	-	-	-	242
-329	665	-	-397	1,724	-	605	-	8,809	1,818	-	-	32,273
-1,396	-	-	-	-1,724	-	-605	-	-8,809	-1,818	4,812	-	-12,938
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3,769	463	-	115	-	-	-	-	-	-	-	-	-240
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-1,014	-	-1,473
-3	46	-	499	-	-	-	-	-	-	-644	-	-329
2,042	1,174	-	218	-	-	-	-	-	-	3,154	-	17,294
1,103	53	-	-	-	-	-	-	-	-	1,172	-	3,487
362	-	-	-	-	-	-	-	-	-	104	-	8,897
577	1,121	-	-	-	-	-	-	-	-	1,878	-	4,577
26	-	-	-	-	-	-	-	-	-	164	-	458
551	1,121	-	-	-	-	-	-	-	-	1,714	-	4,119
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	218	-	-	-	-	-	-	-	-	333

## Major Energy Indicators of Philippines

	1980	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	12,441	13,703	11,758	12,650	12,538	13,421	14,172	15,748	17,319
Indigenous Production	2,703	4,853	5,411	5,638	5,423	5,141	5,582	5,936	6,009
Import	10,525	9,682	7,122	7,360	7,711	9,316	10,459	10,944	12,078
Export	-133	-438	-340	-165	-394	-263	-582	-407	-663
Final Energy Consumption	9,041	8,886	7,460	7,049	7,441	7,409	9,436	9,439	10,275
Industry	4,666	4,392	3,341	3,395	3,681	2,858	3,596	3,939	3,796
Transport	2,289	2,306	2,239	2,019	2,093	2,840	3,220	3,194	3,779
Residential & Commercial	1,129	1,161	1,097	1,093	1,110	1,182	1,440	1,622	2,050
Agriculture	-	-	-	-	-	-	-	-	208
<b>Coal, Coal Products</b>									
Primary Energy Supply	269	594	795	1,159	883	941	1,211	1,003	1,042
Indigenous Production	151	469	560	580	568	544	609	563	567
Import	118	125	236	579	440	286	602	441	622
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-47	-283	-408	-801	-562	-605	-509	-490	-420
Power Generation	-47	-283	-408	-801	-562	-605	-509	-490	-420
Final Energy Consumption	82	451	674	309	295	332	649	645	585
Industry	82	203	372	309	295	332	649	645	585
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	9,146	8,261	6,815	6,203	6,838	7,775	8,701	9,120	10,332
Indigenous Production	462	622	501	341	402	248	269	243	220
Import	8,684	7,639	6,314	6,236	6,436	7,808	9,038	9,051	10,227
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-8,809	-8,432	-7,154	-6,201	-6,853	-7,786	-8,907	-9,117	-10,333
Petroleum Refineries	-8,809	-8,432	-7,154	-6,201	-6,853	-7,786	-8,907	-9,117	-10,333
<b>Petroleum Products</b>									
Primary Energy Supply	937	1,086	-204	572	364	356	-445	494	723
Import	1,723	1,918	572	545	834	1,222	819	1,453	1,229
Export	-133	-438	-340	-165	-394	-263	-582	-407	-663
Transformation Sector	5,522	5,470	5,127	4,208	5,232	5,268	6,144	6,116	7,203
Power Generation	-2,547	-2,494	-1,994	-1,586	-1,229	-2,126	-2,240	-2,469	-2,600
Petroleum Refineries	8,069	7,964	7,121	5,794	6,461	7,394	8,383	8,586	9,803
Final Energy Consumption	7,671	6,961	5,414	5,302	5,695	5,688	6,644	6,912	8,032
Industry	3,878	3,439	2,233	2,312	2,666	1,984	2,211	2,538	2,450
Transport	2,289	2,306	2,239	2,019	2,093	2,840	3,220	3,194	3,779
Residential & Commercial	625	518	460	430	484	473	659	797	1,164
Agriculture	-	-	-	-	-	-	-	-	198
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	1,538	1,772	1,750	1,873	1,789	1,915	2,078	2,165	2,227
Thermal	1,235	1,516	1,296	1,395	1,271	1,464	1,539	1,608	1,706
Hydro	303	255	454	478	517	451	539	558	521
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,287	1,474	1,373	1,438	1,452	1,389	1,538	1,708	1,658
Industry	706	750	736	775	720	542	737	756	762
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	505	643	637	663	627	708	781	825	886
Agriculture	-	-	-	-	-	-	-	-	10

Major Energy Indicators of Philippines (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
17,612	19,054	19,296	21,553	22,978	24,789	27,423	26,900	29,953	33,264	31,712	32,273	
6,135	6,458	6,418	6,819	6,527	6,780	7,259	8,673	10,373	13,218	12,181	14,359	
12,103	13,833	14,082	15,556	17,813	19,251	20,630	19,539	20,577	21,873	21,604	20,210	
-794	-906	-990	-751	-931	-1,303	-1,260	-855	-1,111	-1,824	-1,370	-2,311	
9,797	10,488	11,564	12,578	14,105	15,088	15,044	15,049	17,112	17,171	17,308	17,294	
3,985	4,089	4,544	5,002	5,651	5,646	3,294	4,029	3,682	3,431	3,594	3,487	
4,050	4,558	5,077	5,400	6,078	6,862	7,013	7,109	8,274	8,319	8,784	8,897	
1,762	1,842	1,943	2,176	2,376	2,580	3,789	3,620	4,456	4,762	4,352	4,119	
-	-	-	-	-	-	559	-	456	326	254	458	
1,290	1,253	1,292	1,162	1,310	1,910	2,469	2,038	2,968	4,119	4,280	4,051	
601	757	688	661	588	505	491	527	480	649	590	798	
655	503	581	508	780	1,361	1,935	1,499	2,499	3,474	3,644	3,310	
-	-	-	-	-	-	-	-	-	-	-	-	
-587	-586	-652	-573	-648	-1,131	-1,554	-1,743	-2,254	-3,389	-3,397	-3,214	
-426	-401	-467	-393	-613	-1,097	-1,519	-1,709	-2,223	-3,374	-3,397	-3,214	
566	458	561	617	657	639	850	785	695	650	809	739	
566	458	561	617	657	639	703	679	590	524	696	651	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
10,036	11,161	10,873	11,194	15,126	16,561	17,774	15,010	16,116	15,357	14,762	13,002	
139	417	424	213	122	42	22	37	45	52	64	605	
9,787	11,365	10,687	11,290	15,205	16,345	16,463	14,889	15,804	15,272	15,003	12,616	
-	-301	-263	-168	-88	-	-	-	-	-	-	-333	
-10,256	-11,462	-11,379	-11,608	-15,437	-16,673	-17,298	-16,408	-16,537	-15,727	-16,029	-12,693	
-9,893	-11,041	-10,957	-11,192	-14,987	-16,152	-16,713	-15,961	-15,900	-14,955	-15,387	-12,234	
891	1,356	1,824	3,252	724	85	435	1,743	1,022	1,271	1,141	2,264	
1,661	1,965	2,814	3,758	1,828	1,545	2,232	3,150	2,273	3,127	2,957	4,283	
-794	-605	-726	-583	-843	-1,303	-1,260	-855	-1,111	-1,824	-1,370	-1,978	
6,096	6,943	6,834	6,792	10,315	11,822	11,348	11,187	12,501	12,630	11,476	10,413	
-3,293	-3,548	-3,625	-3,926	-4,183	-4,006	-4,541	-4,157	-3,256	-2,174	-2,471	-1,580	
9,389	10,491	10,459	10,718	14,497	15,828	15,889	15,344	15,757	14,805	13,947	11,993	
7,391	8,255	9,180	9,846	11,161	11,935	11,461	11,328	13,523	13,378	13,133	13,401	
2,615	2,869	3,176	3,466	4,052	3,988	1,846	2,272	2,312	1,772	1,656	1,664	
3,968	4,487	5,015	5,334	5,986	6,761	7,010	7,106	8,272	8,288	8,695	8,793	
808	899	989	1,045	1,122	1,185	1,912	1,846	2,460	2,820	2,318	2,405	
-	-	-	-	-	-	449	-	339	290	254	293	
-	-	-	6	5	9	-	8	63	87	135	1,724	
-	-	-	6	5	9	-	8	63	87	135	1,724	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-6	-5	-9	-	-8	-63	-87	-135	-1,724	
-	-	-	-6	-5	-9	-	-8	-63	-87	-135	-1,724	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
2,206	2,225	2,286	2,620	2,887	3,158	3,427	3,576	3,551	4,517	4,683	4,812	
1,763	1,843	1,854	2,116	2,351	2,554	2,905	3,140	2,877	3,847	4,072	4,207	
442	382	433	504	536	605	522	436	674	671	611	605	
-	-	-	-	-	-	-	-	-	-	-	-	
1,839	1,775	1,824	2,115	2,287	2,515	2,733	2,936	2,894	3,144	3,366	3,154	
803	762	808	919	942	1,019	744	1,079	779	1,134	1,243	1,172	
82	71	62	66	92	100	2	2	3	31	90	104	
954	943	954	1,131	1,254	1,395	1,877	1,774	1,996	1,942	2,033	1,714	
-	-	-	-	-	-	110	-	117	36	-	164	

## Major Economic Indicators of Philippines

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	48.04	51.67	52.94	54.23	55.55	56.89	58.25	59.64
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	56.34	61.51	57.00	52.84	54.64	57.00	60.85	64.62
Real Term (Billions of 1995 Price and 1995 PPP)	178.67	195.07	180.78	167.57	173.30	180.77	192.98	204.95
Nominal (Billions of Current USD)	32.45	33.21	31.41	30.73	29.87	33.20	37.89	42.58
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	1,173	1,190	1,077	974	984	1,002	1,045	1,084
Real Term (1995 Price and 1995 PPP)	3,720	3,775	3,415	3,090	3,120	3,178	3,313	3,437
Nominal (Current USD)	676	643	593	567	538	584	650	714
Nominal GDP & its Components (Billions of Current PHP) *1								
Gross Domestic Product	243.75	369.08	524.48	571.88	608.89	682.76	799.18	925.44
Household Final Consumption Expenditure, etc.	156.82	237.48	362.26	420.83	444.53	482.33	558.76	649.28
General Government Final Consumption Expenditure	22.10	30.55	36.88	43.52	48.43	57.33	72.18	88.19
Gross Fixed Capital Formation	66.35	110.17	128.59	99.82	102.37	112.66	142.23	192.66
Stock Change	4.55	-0.94	-14.28	-12.12	-4.93	6.81	6.97	7.25
Exports of Goods and Services	57.46	79.81	126.68	137.03	160.19	182.18	226.43	263.88
Imports of Goods and Services	69.40	103.64	131.50	125.20	136.23	179.03	215.29	280.12
Real GDP & its Components (Billions of 1985 PHP) *1								
Gross Domestic Product	609.77	665.72	616.96	571.88	591.42	616.92	658.58	699.45
Household Final Consumption Expenditure, etc.	397.40	424.63	425.77	420.83	434.82	452.39	480.56	504.62
General Government Final Consumption Expenditure	50.18	49.85	43.97	43.52	43.67	45.79	49.94	53.43
Gross Fixed Capital Formation	150.72	191.81	144.63	99.82	102.37	105.13	119.05	147.46
Stock Change	10.35	-1.57	-17.06	-12.12	-4.78	6.46	5.45	5.51
Exports of Goods and Services	154.75	158.25	164.33	137.03	160.45	170.89	196.00	216.98
Imports of Goods and Services	179.48	176.84	145.93	125.20	138.02	177.53	212.36	244.59
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	23.5	21.7	23.2	24.6	24.6	24.4	23.6	22.9
Industry	40.5	40.4	38.6	35.1	34.7	34.6	35.2	35.6
Services, etc.	36.0	37.9	38.2	40.4	40.7	41.0	41.2	41.5
Manufacturing Production Index (2000=100) *2	N.A.	38.6	54.7	56.1	55.9	68.9	90.5	102.1
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	5.741	4.890	5.274	4.607	4.771	5.649	7.032	7.755
Imports, c.i.f.	8.295	7.977	6.432	5.459	5.394	7.144	8.721	11.171
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.939	-2.482	-0.679	-0.482	-0.202	-1.017	-1.085	-2.598
Current Account	-1.917	-2.771	-1.294	-0.036	0.952	-0.444	-0.390	-1.456
Overall Balance	0.891	-3.496	-0.448	0.838	1.134	-0.058	0.674	0.300
Foreign Exchange Rate (PHP/USD) *1	7.5114	11.1127	16.6987	18.6073	20.3857	20.5677	21.0947	21.7367
Purchasing Power Parity (PHP/International Dollar) *1	2.2813	2.5851	3.7644	4.3034	4.3649	4.5686	4.8843	5.1136
Price Indices								
GDP Deflator (1985=100) *3	40.0	55.4	85.0	100.0	103.0	110.7	121.3	132.3
Wholesale Price Index (2000=100) *2	12.9	18.9	31.7	37.4	37.5	40.5	45.5	50.4
Consumer Price Index (2000=100) *2	12.9	16.8	24.6	30.3	30.2	31.1	34.9	38.9
Growth Rate (%) *3								
Real GDP	5.15	1.87	-7.32	-7.31	3.42	4.31	6.75	6.21
Population	2.67	2.46	2.45	2.44	2.42	2.41	2.40	2.38
Price								
Wholesale Price Index	18.3	16.0	67.3	18.2	0.3	7.9	12.5	10.6
Consumer Price Index	18.2	5.3	46.7	23.2	-0.3	3.0	12.2	11.4

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"

: PHP shows Philippine Peso, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Philippines (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
61.04	62.44	63.86	65.32	66.81	68.34	69.91	71.52	73.18	74.88	76.63	78.32	79.94
66.59	66.20	66.43	67.83	70.81	74.12	78.45	82.52	82.04	84.83	89.89	92.55	96.65
211.17	209.95	210.66	215.12	224.56	235.07	248.81	261.71	260.20	269.04	285.09	293.52	306.52
44.31	45.42	52.98	54.37	64.08	74.12	82.85	82.34	65.17	76.16	75.91	72.04	77.95
1,091	1,060	1,040	1,038	1,060	1,085	1,122	1,154	1,121	1,133	1,173	1,182	1,209
3,460	3,363	3,299	3,293	3,361	3,440	3,559	3,659	3,556	3,593	3,721	3,748	3,834
726	727	830	832	959	1,085	1,185	1,151	891	1,017	991	920	975
1,077.24	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
767.06	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
108.84	123.89	130.52	149.06	182.78	217.04	259.50	319.93	354.41	389.24	438.86	444.83	488.74
248.95	250.15	282.78	350.54	400.14	423.20	508.74	592.58	563.64	558.25	710.49	720.70	774.08
11.21	2.11	5.62	3.05	7.23	4.70	12.86	8.67	-21.54	-10.00	-0.42	37.76	2.11
296.42	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
358.55	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
720.69	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
531.77	543.64	561.51	578.59	600.11	622.99	651.79	684.32	707.90	726.58	752.07	779.01	810.75
57.04	55.83	55.34	58.75	62.34	65.81	68.53	71.70	70.30	75.04	79.65	75.41	77.19
170.57	141.90	150.97	164.12	176.39	184.67	206.85	230.59	204.83	200.17	215.82	231.19	236.70
5.84	1.70	3.28	2.27	4.41	2.46	3.59	4.46	-8.03	-7.28	-1.00	12.83	-1.19
219.70	232.35	241.43	256.45	307.21	344.18	397.20	465.32	367.45	380.75	445.67	430.34	445.83
269.15	259.13	289.27	322.55	369.33	428.47	500.19	567.67	484.23	470.67	490.77	508.04	532.17
22.3	22.7	22.8	22.8	22.4	21.5	21.1	20.7	19.5	20.1	19.8	19.9	19.7
35.5	34.7	34.4	34.2	34.7	35.4	35.6	35.9	35.3	34.5	35.5	34.8	34.5
42.2	42.5	42.8	43.0	42.9	43.1	43.3	43.4	45.1	45.4	44.8	45.3	45.8
112.0	135.2	144.8	169.8	192.3	227.3	246.8	268.5	80.1	86.7	100.0	108.3	106.5
8.117	8.801	9.751	11.129	13.304	17.502	20.408	24.882	29.414	36.576	39.783	32.664	36.265
13.042	12.858	15.465	18.772	22.641	28.341	34.126	38.622	31.496	32.568	33.808	31.358	35.229
-4.020	-3.211	-4.695	-6.222	-7.850	-8.944	-11.342	-11.127	-0.028	4.959	3.814	-0.743	0.407
-2.695	-1.034	-1.000	-3.016	-2.950	-1.980	-3.953	-4.351	1.546	7.219	6.258	1.323	4.383
-0.045	1.755	1.689	0.336	2.327	1.235	4.338	-3.094	1.279	3.650	-0.376	0.296	-0.111
24.3105	27.4786	25.5125	27.1198	26.4172	25.7145	26.2161	29.4707	40.8931	39.0890	44.1923	50.9927	51.6036
5.5982	6.3615	6.7821	7.0783	7.6885	8.1082	8.6756	9.0504	9.9580	10.6252	10.9495	11.4469	12.0638
149.5	174.2	188.0	200.8	220.9	237.6	255.8	271.7	300.1	324.2	344.8	366.7	384.5
54.7	64.0	66.4	66.3	72.0	76.0	82.8	83.2	92.9	98.2	100.0	102.4	106.1
44.1	52.2	56.7	60.6	65.7	70.9	77.3	81.8	89.8	95.8	100.0	106.1	109.3
3.04	-0.58	0.34	2.12	4.39	4.68	5.85	5.19	-0.58	3.40	5.97	2.96	4.43
2.35	2.29	2.29	2.28	2.29	2.29	2.30	2.30	2.32	2.32	2.34	2.21	2.08
8.5	17.1	3.7	-0.1	8.6	5.5	8.9	0.5	11.7	5.8	1.8	2.4	3.6
13.2	18.5	8.6	6.9	8.4	8.0	9.0	5.9	9.7	6.7	4.4	6.1	3.0

## Original Table (Energy Demand and Supply) of Philippines in 2002

Year:2002

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	1,664,762.39	kt	0.0005	ktoe/kt	798.09	ktoe
CRUDE OIL AND NGL/CONDENSATE	5,525.51	MB	0.1094	ktoe/MB	604.51	ktoe
CRUDE OIL	2,020.08	MB	0.1344	ktoe/MB	271.50	ktoe
NGL/CONDENSATE	3,505.43	MB	0.0950	ktoe/MB	333.02	ktoe
NATURAL GAS AND LNG	62,203.82	MMCF	0.0277	ktoe/MMCF	1,724.29	ktoe
NATURAL GAS	62,203.82	MMCF	0.0277	ktoe/MMCF	1,724.29	ktoe
HYDRO POWER	7,032.97	GWh	0.0860	ktoe/GWh	604.84	ktoe
GEOHERMAL POWER	10,242.49	GWh	0.8600	ktoe/GWh	8,808.54	ktoe
OTHERS	1,818.49	ktoe	1.0000	ktoe/ktoe	1,818.49	ktoe
<b>TOTAL PRODUCTION</b>					14,358.76	ktoe
<b>OPENING STOCKS</b>						
COAL	1,466,933.00	kt	0.0005	ktoe/kt	703.25	ktoe
CRUDE OIL AND NGL/CONDENSATE	10,521.00	MB	0.1344	ktoe/MB	1,414.02	ktoe
CRUDE OIL	10,521.00	MB	0.1344	ktoe/MB	1,414.02	ktoe
LPG	109.00	MB	0.0922	ktoe/MB	10.05	ktoe
NAPHTHA	297.00	MB	0.1238	ktoe/MB	36.77	ktoe
MOGAS	1,512.00	MB	0.1239	ktoe/MB	187.37	ktoe
JET FUEL	291.00	MB	0.1270	ktoe/MB	36.96	ktoe
KEROSENE	261.00	MB	0.1270	ktoe/MB	33.15	ktoe
DIESEL OIL	2,366.00	MB	0.1347	ktoe/MB	318.70	ktoe
FUEL OIL	2,629.00	MB	0.1444	ktoe/MB	379.63	ktoe
OTHER PETROLEUM PRODUCTS	56.00	MB	0.1238	ktoe/MB	6.93	ktoe
<b>TOTAL OPENING STOCKS</b>					3,126.82	ktoe
<b>CLOSING STOCKS</b>						
COAL	1,585,658.00	kt	0.0005	ktoe/kt	760.16	ktoe
CRUDE OIL AND NGL/CONDENSATE	9,672.00	MB	0.1344	ktoe/MB	1,299.92	ktoe
CRUDE OIL	9,672.00	MB	0.1344	ktoe/MB	1,299.92	ktoe
LPG	122.00	MB	0.0922	ktoe/MB	11.25	ktoe
NAPHTHA	136.00	MB	0.1238	ktoe/MB	16.84	ktoe
MOGAS	1,954.00	MB	0.0803	ktoe/MB	156.98	ktoe
JET FUEL	315.00	MB	0.1270	ktoe/MB	40.01	ktoe
KEROSENE	251.00	MB	0.1270	ktoe/MB	31.88	ktoe
DIESEL OIL	1,781.00	MB	0.1347	ktoe/MB	239.90	ktoe
FUEL OIL	2,227.00	MB	0.1444	ktoe/MB	321.58	ktoe
OTHER PETROLEUM PRODUCTS	48.00	MB	0.1263	ktoe/MB	6.06	ktoe
<b>TOTAL CLOSING STOCKS</b>					2,884.57	ktoe
<b>STOCK CHANGE</b>						
COAL	-118,725.00	kt	0.0005	ktoe/kt	-56.92	ktoe
CRUDE OIL AND NGL/CONDENSATE	849.00	MB	0.1344	ktoe/MB	114.11	ktoe
CRUDE OIL	849.00	MB	0.1344	ktoe/MB	114.11	ktoe
LPG	-13.00	MB	0.0922	ktoe/MB	-1.20	ktoe
NAPHTHA	161.00	MB	0.1238	ktoe/MB	19.93	ktoe
MOGAS	246.00	MB	0.1235	ktoe/MB	30.39	ktoe
JET FUEL	-24.00	MB	0.1270	ktoe/MB	-3.05	ktoe
KEROSENE	10.00	MB	0.1270	ktoe/MB	1.27	ktoe
DIESEL OIL	585.00	MB	0.1347	ktoe/MB	78.80	ktoe
FUEL OIL	402.00	MB	0.1444	ktoe/MB	58.05	ktoe
OTHER PETROLEUM PRODUCTS	8.00	MB	0.1089	ktoe/MB	0.87	ktoe
<b>TOTAL STOCK CHANGE</b>					242.25	ktoe
<b>IMPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	93,871.00	MB	0.1344	ktoe/MB	12,616.26	ktoe
CRUDE OIL	93,871.00	MB	0.1344	ktoe/MB	12,616.26	ktoe
LPG	7,287.79	MB	0.0922	ktoe/MB	671.93	ktoe
NAPHTHA	228.41	MB	0.1238	ktoe/MB	28.28	ktoe
MOGAS	6,418.26	MB	0.1245	ktoe/MB	799.07	ktoe
JET FUEL	1,335.81	MB	0.1270	ktoe/MB	169.65	ktoe
AVGAS	38.91	MB	0.1224	ktoe/MB	4.76	ktoe
KEROSENE	476.09	MB	0.1270	ktoe/MB	60.46	ktoe
DIESEL OIL	14,048.67	MB	0.1347	ktoe/MB	1,892.36	ktoe
FUEL OIL	3,922.27	MB	0.1444	ktoe/MB	566.38	ktoe
OTHER PETROLEUM PRODUCTS	640.22	MB	0.1412	ktoe/MB	90.38	ktoe
<b>TOTAL IMPORTS</b>					20,209.79	ktoe
<b>EXPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	3,505.43	MB	0.0950	ktoe/MB	333.02	ktoe
NGL/CONDENSATE	3,505.43	MB	0.0950	ktoe/MB	333.02	ktoe
LPG	58.74	MB	0.0922	ktoe/MB	5.42	ktoe
NAPHTHA	4,228.74	MB	0.1238	ktoe/MB	523.52	ktoe
JET FUEL	39.99	MB	0.1270	ktoe/MB	5.08	ktoe
DIESEL OIL	1,101.25	MB	0.1347	ktoe/MB	148.34	ktoe
FUEL OIL	5,594.48	MB	0.1444	ktoe/MB	807.84	ktoe
OTHER PETROLEUM PRODUCTS	3,958.33	MB	0.1233	ktoe/MB	488.06	ktoe
<b>TOTAL EXPORTS</b>					2,311.27	ktoe
<b>INTERNATIONAL MARINE BUNKERS</b>						
DIESEL	1,608.14	MB	0.1408	ktoe/MB	226.37	ktoe
FUEL OIL	602.42	MB	0.1347	ktoe/MB	81.15	ktoe
FUEL OIL	1,005.72	MB	0.1444	ktoe/MB	145.23	ktoe
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					32,273.16	ktoe
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						

Original Table (Energy Demand and Supply) of Philippines in 2002 (Continued)

Year:2002

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
CRUDE OIL	91,024.57	MB	0.1344	ktoe/MB	12,233.70	ktoe
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	6,583,769.25	kt	0.0005	ktoe/kt	3,213.54	ktoe
DIESEL OIL	1,365.34	MB	0.1347	ktoe/MB	183.91	ktoe
FUEL OIL	9,668.28	MB	0.1444	ktoe/MB	1,396.10	ktoe
NATURAL GAS AND LNG	62,203.82	MMCF	0.0277	ktoe/MMCF	1,724.29	ktoe
NATURAL GAS	62,203.82	MMCF	0.0277	ktoe/MMCF	1,724.29	ktoe
HYDRO POWER	7,032.97	GWh	0.0860	ktoe/GWh	604.84	ktoe
GEOHERMAL POWER	10,242.49	GWh	0.8600	ktoe/GWh	8,808.54	ktoe
OTHERS	1,818.49	ktoe	1.0000	ktoe/ktoe	1,818.49	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>	90,940.27	MB	0.1319	ktoe/MB	11,993.26	ktoe
LPG	5,018.60	MB	0.0922	ktoe/MB	462.71	ktoe
NAPHTHA	4,158.48	MB	0.1238	ktoe/MB	514.82	ktoe
MOGAS	16,736.37	MB	0.1238	ktoe/MB	2,071.53	ktoe
JET FUEL	5,049.93	MB	0.1270	ktoe/MB	641.34	ktoe
KEROSENE	3,226.89	MB	0.1270	ktoe/MB	409.82	ktoe
DIESEL OIL	29,758.23	MB	0.1347	ktoe/MB	4,008.43	ktoe
FUEL OIL	26,103.67	MB	0.1444	ktoe/MB	3,769.37	ktoe
OTHER PETROLEUM PRODUCTS	888.10	MB	0.1298	ktoe/MB	115.24	ktoe
<b>GAS RECOVERING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>	55,952.85	GWh	0.0860	ktoe/GWh	4,811.94	ktoe
THERMAL	31,191.97	GWh	0.0860	ktoe/GWh	2,682.51	ktoe
COAL	16,127.89	GWh	0.0860	ktoe/GWh	1,387.00	ktoe
OIL	6,293.23	GWh	0.0860	ktoe/GWh	541.22	ktoe
GAS	8,770.85	GWh	0.0860	ktoe/GWh	754.29	ktoe
HYDRO POWER	7,032.97	GWh	0.0860	ktoe/GWh	604.84	ktoe
GEOHERMAL POWER	10,242.49	GWh	0.0860	ktoe/GWh	880.85	ktoe
OTHER POWER	7,485.41	GWh	0.0860	ktoe/GWh	643.75	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
CRUDE OIL	3,414.39	MB	0.1344	ktoe/MB	458.89	ktoe
ELECTRICITY	11,787.66	GWh	0.0860	ktoe/GWh	1,013.74	ktoe
<b>TOTAL LOSSES AND OWN USE</b>					1,472.63	ktoe
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	1,540,824.00	kt	0.0005	ktoe/kt	738.67	ktoe
LPG	12,731.68	MB	0.0922	ktoe/MB	1,173.86	ktoe
NAPHTHA	228.41	MB	0.1238	ktoe/MB	28.28	ktoe
MOGAS	24,102.34	MB	0.1240	ktoe/MB	2,987.68	ktoe
JET FUEL	6,535.35	MB	0.1270	ktoe/MB	829.99	ktoe
AVGAS	24.17	MB	0.1224	ktoe/MB	2.96	ktoe
KEROSENE	3,669.08	MB	0.1270	ktoe/MB	465.97	ktoe
DIESEL OIL	41,965.08	MB	0.1347	ktoe/MB	5,652.70	ktoe
FUEL OIL	14,138.07	MB	0.1444	ktoe/MB	2,041.54	ktoe
OTHER PETROLEUM PRODUCTS	1,505.61	MB	0.1445	ktoe/MB	217.60	ktoe
ELECTRICITY	36,679.78	GWh	0.0860	ktoe/GWh	3,154.46	ktoe
<b>TOTAL</b>					17,293.71	ktoe
<b>AGRICULTURE</b>						
MOGAS	15.15	MB	0.1223	ktoe/MB	1.85	ktoe
KEROSENE	22.38	MB	0.1270	ktoe/MB	2.84	ktoe
DIESEL OIL	1,950.47	MB	0.1347	ktoe/MB	262.73	ktoe
FUEL OIL	178.63	MB	0.1444	ktoe/MB	25.79	ktoe
ELECTRICITY	1,911.19	GWh	0.0860	ktoe/GWh	164.36	ktoe
<b>TOTAL</b>					457.58	ktoe
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	12,158.40	MB	0.0922	ktoe/MB	1,121.00	ktoe
MOGAS	46.96	MB	0.1223	ktoe/MB	5.74	ktoe
KEROSENE	3,388.53	MB	0.1270	ktoe/MB	430.34	ktoe
DIESEL OIL	2,204.11	MB	0.1347	ktoe/MB	296.89	ktoe
FUEL OIL	3,816.65	MB	0.1444	ktoe/MB	551.12	ktoe
ELECTRICITY	19,928.54	GWh	0.0860	ktoe/GWh	1,713.85	ktoe
<b>TOTAL</b>					4,118.96	ktoe
<b>OTHERS</b>						
<b>TOTAL</b>						ktoe
<b>INDUSTRY</b>						
COAL	1,358,637.00	kt	0.0005	ktoe/kt	651.33	ktoe
LPG	573.27	MB	0.0922	ktoe/MB	52.86	ktoe
KEROSENE	258.17	MB	0.1270	ktoe/MB	32.79	ktoe
DIESEL OIL	3,529.47	MB	0.1347	ktoe/MB	475.42	ktoe
FUEL OIL	7,636.64	MB	0.1444	ktoe/MB	1,102.73	ktoe
ELECTRICITY	13,627.89	GWh	0.0860	ktoe/GWh	1,172.00	ktoe
<b>TOTAL</b>					3,487.12	ktoe
<b>TRANSPORT</b>						
MOGAS	24,040.23	MB	0.1240	ktoe/MB	2,980.08	ktoe
JET FUEL	6,535.35	MB	0.1270	ktoe/MB	829.99	ktoe
AVGAS	24.17	MB	0.1224	ktoe/MB	2.96	ktoe
DIESEL OIL	34,281.03	MB	0.1347	ktoe/MB	4,617.65	ktoe
FUEL OIL	2,506.15	MB	0.1444	ktoe/MB	361.89	ktoe



Original Table (Energy Demand and Supply) of Philippines in 2002 (Continued)

Year:2002

Philippines	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
ELECTRICITY	1,212.16	GWh	0.0860	ktoe/GWh	104.25	ktoe
TOTAL					8,896.82	ktoe
NON-ENERGY						
COAL	182,187.00	kt	0.0005	ktoe/kt	87.34	ktoe
NAPHTHA	228.41	MB	0.1238	ktoe/MB	28.28	ktoe
OTHER PETROLEUM PRODUCTS	1,505.61	MB	0.1445	ktoe/MB	217.60	ktoe
TOTAL NON-ENERGY USE					333.22	ktoe

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	10,252,570	
COAL	3,963,000	
OIL	3,526,570	
GAS	2,763,000	
HYDRO POWER	2,518,070	
NUCLEAR POWER		
GEOHERMAL POWER	1,931,480	
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

## REFINING CAPACITY

At the time of 2002

	Unit	
OPERATING RATE	%	61.5
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	

## NON-COMMERCIAL ENERGY TABLE

At the time of 2002  
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					

## 3.16 Russia

## Energy Balance Table of Russia in 2001

	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
<b>1 Indigenous Production</b>	115,349	-	346,187	-	-	-	-	-	-
<b>2 Import</b>	15,035	58	5,123	130	-	-	-	-	88
<b>3 Export</b>	-22,404	-1,441	-162,271	-52,544	-	-	-	-	-24,838
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	-5,612	-313	-909	-49	45	-	-	-	214
<b>6 Total Primary Energy Supply</b>	102,369	-1,696	188,129	-52,464	45	-	-	-	-24,536
<b>7 Public Electricity</b>	-49,997	-	-	-9,075	-	-	-	-	-1,096
<b>8 Autoproducers of Electricity</b>	-19,433	-4,264	-1,042	-12,731	-	-	-	-	-944
<b>9 Gas Processing</b>	-	-7,310	-	-7,307	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-182,617	178,570	30,245	-	9,638	-	50,913
<b>11 Coal Transformation</b>	-21,145	20,980	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-212	-3,850	-6,628	-	-	-	-	-1,798
<b>13 Discrepancy</b>	0	627	0	-3,249	0	-	-	-	0
<b>14 Total Final Energy Consumption</b>	11,793	8,124	619	87,118	30,290	-	9,638	-	22,540
<b>15 Industry Sector</b>	1,879	7,713	22	11,775	-	-	-	-	7,297
<b>16 Transport Sector</b>	324	5	6	46,711	30,290	-	9,638	-	5,919
<b>17 Other Sector</b>	9,334	22	591	20,256	-	-	-	-	9,258
<b>18 Agriculture</b>	245	0	11	5,806	-	-	-	-	5,697
<b>19 Residential &amp; Commercial</b>	8,704	18	503	6,722	-	-	-	-	1,537
<b>20 Other</b>	384	4	77	7,728	-	-	-	-	2,024
<b>21 Non-energy</b>	257	383	-	8,376	-	-	-	-	67

## Energy Balance Table of Russia 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
<b>1 Indigenous Production</b>	112,211	-	377,550	-	-	-	-	-	-
<b>2 Import</b>	11,218	3	6,238	8	1	-	-	-	5
<b>3 Export</b>	-23,640	-2,243	-188,573	-66,793	-3,544	-	-	-	-29,222
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	3,433	321	-1,012	776	-210	-	-	-	102
<b>6 Total Primary Energy Supply</b>	103,222	-1,918	194,203	-66,009	-3,752	-	-	-	-29,115
<b>7 Public Electricity</b>	-49,997	-	-	-7,046	-	-	-	-	-
<b>8 Autoproducers of Electricity</b>	-20,954	-4,372	-998	-11,734	-	-	-	-	-325
<b>9 Gas Processing</b>	-	-7,296	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-190,048	186,336	31,021	-	9,946	68	53,515
<b>11 Coal Transformation</b>	-24,638	23,781	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-362	-218	-2,994	-9,944	-	-	-	-	-1,055
<b>13 Discrepancy</b>	2,359	2	0	-2,400	0	-	-	-	-1,172
<b>14 Total Final Energy Consumption</b>	9,629	9,979	163	89,203	27,269	-	9,946	68	21,848
<b>15 Industry Sector</b>	1,908	9,026	22	16,158	-	-	-	-	2,884
<b>16 Transport Sector</b>	-	-	5	50,096	27,269	-	9,946	-	12,089
<b>17 Other Sector</b>	7,408	26	136	16,083	-	-	-	68	6,876
<b>18 Agriculture</b>	184	2	8	4,253	-	-	-	-	4,145
<b>19 Residential &amp; Commercial</b>	6,373	22	88	4,595	-	-	-	68	1,403
<b>20 Other</b>	852	2	40	7,235	-	-	-	-	1,328
<b>21 Non-energy</b>	295	927	-	6,866	-	-	-	-	-

Energy Balance Table of Russia in 2001 (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	
-	-	-	-	468,771	-	15,123	35,686	79	365	-	-	981,560	
2	40	-	-	3,342	-	-	-	-	-	843	-	24,531	
-26,676	-1,030	-	-	-146,108	-	-	-	-	-	-2,207	-	-386,975	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-307	-1	-	-	-690	-	-	-	-	-	-	-	-7,573	
-26,981	-992	-	-	325,316	-	15,123	35,686	79	365	-1,364	-	611,542	
-7,979	-	-	-	-112,595	-	-15,044	-35,686	-79	0	72,348	56,067	-94,062	
-10,791	-26	-969	-	-77,148	-	-79	-	-	-	4,303	88,151	-22,244	
-	-1,786	-5,521	-	-	-	-	-	-	-	-	-	-14,617	
53,394	8,686	12,616	13,078	-	-	-	-	-	-	-	-	-4,047	
-	-	-	-	-	-	-	-	-	-	-	-	-166	
-2,415	-	-2,415	-	-18,223	-	-	-	-	-	-21,060	-16,783	-66,757	
70	0	-3,318	-	-10	-	0	-	-	0	-1,024	9,239	5,584	
5,298	5,881	393	13,078	117,339	-	-	-	-	364	53,203	136,674	415,234	
3,094	89	307	988	43,570	-	-	-	-	-	27,657	50,459	143,075	
631	233	-	-	27,090	-	-	-	-	-	5,430	3,550	83,116	
1,487	4,008	68	5,435	46,679	-	-	-	-	364	20,116	82,665	180,026	
99	10	-	-	443	-	-	-	-	-	2,187	4,022	12,713	
1,235	3,883	68	-	45,428	-	-	-	-	-	12,310	72,044	145,730	
153	115	-	5,435	808	-	-	-	-	364	5,619	6,600	21,584	
86	1,551	18	6,654	-	-	-	-	-	-	-	-	9,016	

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	
-	-	-	-	532,826	-	14,290	36,909	135	6,878	-	-	1,080,798	
1	1	-	-	6,481	-	-	-	-	-	443	-	24,391	
-32,976	-1,052	-	-	-166,523	-	-	-	-	-	-1,556	-	-449,329	
-	-	-	-	-	-	-	-	-	-	-	-	-	
875	9	-	-	-10,942	-	-	-	-	30	-	-	-7,394	
-32,100	-1,042	-	-	361,841	-	14,290	36,909	135	6,908	-1,113	-	648,467	
-7,046	-	-	-	-125,102	-	-14,211	-36,909	-135	-1	72,279	62,901	-98,220	
-10,287	-49	-1,072	-	-88,195	-	-79	-	-	-4,021	4,781	93,548	-32,024	
-	-	-	-	-	-	-	-	-	-	-	-	-7,296	
56,584	8,363	13,342	13,496	-	-	-	-	-	-	-	-	-3,712	
-	-	-	-	-	-	-	-	-	-	-	-	-857	
-2,708	-12	-6,170	-	-15,621	-	-	-	-	-112	-22,369	-20,515	-72,135	
71	-714	-585	-	-4,318	-	0	-	-	-152	-410	0	-4,919	
4,515	6,546	5,516	13,496	128,605	-	-	-	-	2,622	53,168	135,934	429,305	
2,929	3,809	5,516	1,020	45,779	-	-	-	-	412	27,489	51,483	152,277	
548	244	-	-	31,448	-	-	-	-	-	5,833	-	87,382	
1,038	2,493	-	5,609	51,378	-	-	-	-	2,210	19,846	84,452	181,539	
100	8	-	-	536	-	-	-	-	139	1,952	3,943	11,016	
648	2,476	-	-	49,454	-	-	-	-	1,776	17,894	80,508	160,710	
290	9	-	5,609	1,388	-	-	-	-	295	-	-	9,812	
-	-	-	6,866	-	-	-	-	-	-	-	-	8,089	

## Major Energy Indicators of Russia

	1980	1983	1984	1985	1986	1987	1988	1989	1990
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		
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
-	-	-	615,492	608,904	579,515	591,507	573,250	592,115	596,177	611,542	648,467	
-	-	-	970,758	946,579	943,613	918,145	925,155	939,032	958,240	981,560	1,080,798	
-	-	-	23,101	21,431	17,074	17,494	16,747	16,803	28,802	24,531	24,391	
-	-	-	-344,562	-349,720	-354,810	-347,293	-360,134	-360,827	-384,742	-386,975	-449,329	
-	-	-	533,421	502,070	490,233	491,558	492,180	525,270	522,486	415,234	429,305	
-	-	-	106,886	101,608	94,382	87,459	82,721	87,768	76,724	143,075	152,277	
-	-	-	24,731	22,370	20,178	18,696	17,057	18,011	9,667	83,116	87,382	
-	-	-	86,403	81,303	82,722	81,126	84,487	78,614	82,332	145,730	160,710	
-	-	-	27,714	25,009	22,727	22,080	19,837	15,347	7,847	12,713	11,016	
-	-	-	118,113	112,892	104,727	103,120	99,774	102,585	106,893	100,672	101,304	
-	-	-	121,370	117,265	114,543	109,055	103,611	111,152	115,060	115,349	112,211	
-	-	-	14,368	10,129	7,452	8,523	9,727	7,006	11,481	15,093	11,221	
-	-	-	-10,352	-13,610	-11,869	-10,129	-9,727	-12,360	-19,678	-23,845	-25,882	
-	-	-	-74,535	-75,964	-68,691	-56,854	-42,857	-57,234	-60,661	-81,383	-84,056	
-	-	-	-64,924	-66,263	-57,116	-47,522	-32,841	-53,291	-58,662	-73,694	-75,323	
-	-	-	50,480	44,064	43,174	52,769	63,483	46,712	41,037	19,917	19,609	
-	-	-	-	-	-	-	-	-	-	9,592	10,934	
-	-	-	-	-	-	-	-	-	-	329	-	
-	-	-	-	-	-	-	-	-	-	8,722	6,394	
-	-	-	-	-	-	-	-	-	-	246	185	
-	-	-	184,181	187,684	172,569	185,682	173,971	176,829	184,681	188,129	194,203	
-	-	-	318,112	307,101	301,496	305,900	303,498	305,099	323,417	346,187	377,550	
-	-	-	4,805	8,508	6,707	6,907	6,306	6,006	6,306	5,123	6,238	
-	-	-	-126,824	-122,420	-126,624	-127,425	-135,433	-134,676	-144,542	-162,271	-188,573	
-	-	-	-186,783	-182,879	-176,673	-177,774	-163,861	-168,766	-173,971	-187,510	-194,040	
-	-	-	-186,383	-182,479	-176,073	-177,174	-163,861	-168,766	-173,971	-182,617	-190,048	
-	-	-	-54,852	-54,852	-54,852	-54,852	-49,227	-46,673	-62,683	-52,464	-66,009	
-	-	-	-	-	-	-	-	-	-	130	8	
-	-	-	-54,852	-54,852	-54,852	-54,852	-49,227	-46,673	-62,683	-52,544	-66,793	
-	-	-	151,143	140,815	134,594	134,394	131,005	126,905	135,397	142,830	157,613	
-	-	-	-	-	-	-883	-	-	-	-21,805	-18,779	
-	-	-	151,143	140,815	134,594	135,278	131,005	126,905	135,397	178,570	186,336	
-	-	-	121,391	116,786	109,502	108,956	96,492	95,729	90,806	87,118	89,203	
-	-	-	-	-	-	-	-	-	-	11,775	16,158	
-	-	-	15,039	13,073	11,046	9,799	8,373	8,608	-	46,711	50,096	
-	-	-	-	-	-	-	-	-	-	6,722	4,595	
-	-	-	12,032	10,880	9,520	10,241	8,675	7,419	-	5,806	4,253	
-	-	-	328,992	323,661	317,038	317,361	309,607	314,938	319,542	325,316	361,841	
-	-	-	490,540	481,009	485,855	461,300	477,374	477,132	471,478	468,771	532,826	
-	-	-	2,019	1,212	1,858	1,454	-	3,069	10,258	3,342	6,481	
-	-	-	-148,947	-155,571	-158,721	-152,582	-163,486	-165,183	-156,540	-146,108	-166,523	
-	-	-	-197,169	-194,665	-190,869	-188,930	-183,115	-136,831	-138,043	-207,966	-228,918	
-	-	-	-197,169	-194,665	-190,869	-188,930	-183,115	-136,831	-138,043	-189,743	-213,297	
-	-	-	132,712	129,965	127,219	117,365	127,461	177,137	181,499	117,339	128,605	
-	-	-	-	-	-	-	-	-	-	43,570	45,779	
-	-	-	-	-	-	-	-	-	-	27,090	31,448	
-	-	-	-	-	-	-	-	-	-	45,428	49,454	
-	-	-	-	-	-	-	-	-	-	443	536	
-	-	-	75,330	73,963	72,879	71,727	71,133	72,707	75,339	76,651	77,060	
-	-	-	51,697	50,158	50,184	48,825	48,558	48,386	49,883	49,751	50,590	
-	-	-	15,222	15,248	13,339	13,562	13,674	13,829	14,224	15,123	14,290	
-	-	-	8,411	8,557	9,357	9,340	8,901	10,492	11,232	11,776	12,180	
-	-	-	61,636	60,054	58,631	57,560	56,246	58,205	60,303	53,203	53,168	
-	-	-	33,136	32,818	31,332	28,813	26,694	27,898	16,994	27,657	27,489	
-	-	-	5,882	5,607	5,581	5,461	5,057	5,263	5,237	5,430	5,833	
-	-	-	13,063	12,943	13,442	13,356	13,747	13,614	14,302	12,310	17,894	
-	-	-	8,402	7,620	7,387	6,717	6,446	2,898	2,597	2,187	1,952	

## Major Economic Indicators of Russia

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	139.01	141.67	142.75	143.86	144.89	145.91	146.86	147.72
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.	N.A.	520.00
Real Term (Billions of 1995 Price and 1995 PPP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1,458.57
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.	N.A.	3,520
Real Term (1995 Price and 1995 PPP)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	9,874
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.	N.A.	0.57
Household Final Consumption Expenditure, etc.	0.23	0.25	0.26	0.26	0.27	0.28	0.29	0.26
General Government Final Consumption Expenditure	0.05	0.07	0.07	0.08	0.08	0.09	0.09	0.12
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.18
Stock Change	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.01
Exports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.13
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	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.	N.A.	3,977.15
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 (%) *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.
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.	N.A.	0.0005
Price Indices								
GDP Deflator (1997=100) *3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	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.	N.A.
Population (*3)	0.71	0.60	0.76	0.78	0.72	0.70	0.65	0.59
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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
148.29	148.62	148.69	148.52	148.34	148.14	147.74	147.30	146.90	146.31	145.56	144.75	144.07
504.40	478.94	409.35	373.86	326.87	313.33	302.05	306.27	290.04	308.61	339.47	356.44	371.77
1,414.81	1,343.41	1,148.20	1,048.67	916.85	878.86	847.22	859.08	813.55	865.62	952.18	999.79	1,042.78
N.A.	N.A.	N.A.	172.95	278.79	313.33	392.08	404.94	270.95	195.91	259.72	309.90	346.54
3,401	3,223	2,753	2,517	2,204	2,115	2,044	2,079	1,974	2,109	2,332	2,462	2,580
9,541	9,039	7,722	7,061	6,181	5,933	5,735	5,832	5,538	5,916	6,542	6,907	7,238
N.A.	N.A.	N.A.	1,164	1,879	2,115	2,654	2,749	1,844	1,339	1,784	2,141	2,405
0.64	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	9,039.40	10,863.40
0.31	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	4,421.00	5,560.30
0.13	0.23	2.63	34.37	116.65	272.50	391.40	493.50	492.60	703.20	1,102.50	1,475.80	1,836.80
0.18	0.33	4.55	34.97	133.21	301.10	401.60	428.50	424.70	693.90	1,232.00	1,685.80	1,948.10
0.01	0.18	2.03	11.35	22.76	62.30	73.60	86.30	-31.20	21.40	133.70	303.20	339.60
0.12	0.19	11.85	65.52	169.53	418.40	523.50	579.30	821.00	2,084.60	3,218.90	3,280.40	3,771.10
0.12	0.18	9.17	52.30	141.67	369.90	438.70	527.70	645.60	1,262.40	1,755.80	2,126.80	2,602.70
3,857.84	3,663.13	3,130.84	2,859.44	2,500.02	2,396.43	2,310.16	2,342.50	2,218.35	2,360.32	2,596.35	2,726.17	2,843.40
1,394.39	1,330.25	1,290.34	1,305.82	1,321.49	1,284.49	1,224.16	1,282.60	1,240.84	1,205.57	1,290.90	1,414.88	1,534.57
697.42	618.61	545.62	510.70	495.89	490.43	505.64	493.50	498.44	513.89	524.16	515.25	527.62
2,351.66	1,987.16	1,162.49	862.56	638.30	590.43	465.26	428.50	375.37	399.39	471.68	521.21	536.84
25.36	219.16	287.63	180.06	95.25	66.29	80.02	86.30	-29.05	-53.53	29.69	51.07	48.05
876.79	613.96	437.90	447.15	503.36	561.44	582.21	579.30	590.31	656.42	718.78	744.66	820.61
1,276.39	683.92	457.38	410.92	428.25	518.85	525.60	527.70	435.88	361.78	479.00	565.22	673.17
5.1	5.2	5.5	5.8	5.8	5.6	6.1	5.9	5.0	5.5	5.7	6.0	5.9
47.0	45.7	41.5	39.6	36.3	36.0	35.0	34.7	34.8	35.7	36.5	36.8	36.5
36.6	37.8	41.3	43.7	47.4	48.0	49.7	50.6	50.9	49.0	47.6	46.9	47.4
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.
N.A.	N.A.	40.000	45.480	67.540	81.095	88.600	88.330	74.884	75.665	105.565	103.139	106.858
N.A.	N.A.	33.100	32.220	50.520	60.945	68.830	73.615	58.015	39.537	44.862	53.764	60.520
N.A.	N.A.	N.A.	N.A.	16.928	19.816	21.591	14.913	16.429	36.012	60.172	48.121	46.335
N.A.	N.A.	N.A.	N.A.	7.844	6.965	10.847	-0.080	0.216	24.611	46.840	33.795	29.116
N.A.	N.A.	N.A.	N.A.	-19.113	-8.326	-17.218	-6.520	-21.378	-1.704	13.922	11.266	11.563
N.A.	N.A.	N.A.	0.9917	2.1908	4.5592	5.1208	5.7848	9.7051	24.6199	28.1292	29.1685	31.3485
0.0005	0.0011	0.0170	0.1680	0.6835	1.6254	2.3173	2.5948	2.9696	5.0680	6.9303	8.0847	9.1628
0.0	0.0	0.6	6.0	24.4	59.6	86.9	100.0	118.5	204.3	281.4	331.6	382.1
N.A.	N.A.	N.A.	1.6	6.9	23.1	34.9	40.1	42.9	68.2	100.0	119.2	132.9
N.A.	N.A.	0.2	1.7	6.9	20.6	30.4	34.9	44.6	82.8	100.0	121.5	140.6
-3.00	-5.05	-14.53	-8.67	-12.57	-4.14	-3.60	1.40	-5.30	6.40	10.00	5.00	4.30
0.39	0.22	0.04	-0.11	-0.12	-0.13	-0.27	-0.29	-0.27	-0.40	-0.52	-0.55	-0.47
N.A.	N.A.	N.A.	943.8	337.0	236.5	50.8	15.0	7.0	58.9	46.5	19.2	11.6
N.A.	N.A.	N.A.	874.6	307.6	197.5	47.7	14.8	27.7	85.7	20.8	21.5	15.8



## Original Table (Energy Demand and Supply) of Russia in 2002

Year:2002

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	403,216.00	kt	0.3976	ktce/kt	160,300.97	ktce
HARD COAL	163,546.00	kt	0.7680	ktce/kt	125,603.33	ktce
LIGNITE	76,124.00	kt	0.4558	ktce/kt	34,697.64	ktce
CRUDE OIL AND NGL/CONDENSATE	377,173.00	kt	1.4300	ktce/kt	539,357.39	ktce
NATURAL GAS AND LNG	659,600.93	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	761,179.48	ktce
HYDRO POWER	166,163.00	GWh	0.1229	ktce/GWh	20,414.31	ktce
NUCLEAR POWER	141,629.00	GWh	0.3723	ktce/GWh	52,727.68	ktce
GEOHERMAL POWER	156.00	GWh	1.2286	ktce/GWh	191.66	ktce
OTHER POWER	6.00	GWh	0.1229	ktce/GWh	0.74	ktce
WIND	6.00	GWh	0.1229	ktce/GWh	0.74	ktce
OTHERS	287,934.00	TJ	0.0341	ktce/TJ	9,824.55	ktce
TOTAL PRODUCTION					1,543,997.51	ktce
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						ktce
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						ktce
<b>STOCK CHANGE</b>						
COAL	6,429.00	kt	0.7629	ktce/kt	4,904.98	ktce
HARD COAL	6,170.00	kt	0.7680	ktce/kt	4,738.56	ktce
LIGNITE	259.00	kt	0.6425	ktce/kt	166.42	ktce
COKE	468.00	kt	0.9900	ktce/kt	463.32	ktce
BRIQUETTES	-8.00	kt	0.6000	ktce/kt	-4.80	ktce
CRUDE OIL AND NGL/CONDENSATE	-1,011.00	kt	1.4300	ktce/kt	-1,445.73	ktce
LPG	8.00	kt	1.5700	ktce/kt	12.56	ktce
MOGAS	-196.00	kt	1.5286	ktce/kt	-299.60	ktce
DIESEL OIL	100.00	kt	1.4500	ktce/kt	145.00	ktce
FUEL OIL	916.00	kt	1.3647	ktce/kt	1,250.02	ktce
NATURAL GAS AND LNG	-13,545.18	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	-15,631.14	ktce
OTHERS	1,260.00	TJ	0.0341	ktce/TJ	42.99	ktce
TOTAL STOCK CHANGE					-10,562.40	ktce
<b>IMPORTS</b>						
COAL	20,866.00	kt	0.7680	ktce/kt	16,025.09	ktce
HARD COAL	20,866.00	kt	0.7680	ktce/kt	16,025.09	ktce
COKE	5.00	kt	0.9900	ktce/kt	4.95	ktce
CRUDE OIL AND NGL/CONDENSATE	6,232.00	kt	1.4300	ktce/kt	8,911.76	ktce
LPG	1.00	kt	1.5700	ktce/kt	1.57	ktce
MOGAS	1.00	kt	1.5286	ktce/kt	1.53	ktce
DIESEL OIL	5.00	kt	1.4500	ktce/kt	7.25	ktce
FUEL OIL	1.00	kt	1.3810	ktce/kt	1.38	ktce
NATURAL GAS AND LNG	8,022.63	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	9,258.11	ktce
ELECTRICITY	5,154.00	GWh	0.1229	ktce/GWh	633.21	ktce
TOTAL IMPORTS					34,844.85	ktce
<b>EXPORTS</b>						
COAL	44,280.00	kt	0.7627	ktce/kt	33,771.36	ktce
HARD COAL	43,497.00	kt	0.7680	ktce/kt	33,405.70	ktce
LIGNITE	783.00	kt	0.4670	ktce/kt	365.66	ktce
COKE	3,236.00	kt	0.9900	ktce/kt	3,203.64	ktce
CRUDE OIL AND NGL/CONDENSATE	188,385.00	kt	1.4300	ktce/kt	269,390.55	ktce
LPG	957.00	kt	1.5700	ktce/kt	1,502.49	ktce
MOGAS	3,312.00	kt	1.5286	ktce/kt	5,062.63	ktce
DIESEL OIL	28,790.00	kt	1.4500	ktce/kt	41,745.50	ktce
FUEL OIL	34,334.00	kt	1.3721	ktce/kt	47,108.15	ktce
NATURAL GAS AND LNG	206,144.38	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	237,890.62	ktce
ELECTRICITY	18,097.00	GWh	0.1229	ktce/GWh	2,223.35	ktce
TOTAL EXPORTS					641,898.28	ktce
<b>INTERNATIONAL MARINE BUNKERS</b>						
TOTAL PRIMARY ENERGY SUPPLY					926,381.69	ktce
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	45,830.00	kt	0.7680	ktce/kt	35,197.44	ktce
HARD COAL	45,830.00	kt	0.7680	ktce/kt	35,197.44	ktce
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	189,858.00	kt	1.4300	ktce/kt	271,496.94	ktce
<b>GAS PROCESSING</b>						
COKE	21,938.00	kt	0.9900	ktce/kt	21,718.62	ktce
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	114,261.00	kt	0.6251	ktce/kt	71,424.38	ktce
HARD COAL	60,582.00	kt	0.7680	ktce/kt	46,526.98	ktce
LIGNITE	53,679.00	kt	0.4638	ktce/kt	24,897.41	ktce
FUEL OIL	7,347.00	kt	1.3700	ktce/kt	10,065.04	ktce
NATURAL GAS AND LNG	154,867.83	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	178,717.47	ktce
HYDRO POWER	165,241.00	GWh	0.1229	ktce/GWh	20,301.04	ktce
NUCLEAR POWER	141,629.00	GWh	0.3723	ktce/GWh	52,727.68	ktce
GEOHERMAL POWER	156.00	GWh	1.2286	ktce/GWh	191.66	ktce
OTHER POWER	6.00	GWh	0.1229	ktce/GWh	0.74	ktce
WIND	6.00	GWh	0.1229	ktce/GWh	0.74	ktce
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
COAL	43,593.00	kt	0.6867	ktce/kt	29,934.20	ktce
HARD COAL	27,586.00	kt	0.7680	ktce/kt	21,186.05	ktce

Original Table (Energy Demand and Supply) of Russia in 2002 (Continued)

Year:2002

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
LIGNITE	16,007.00	kt	0.4641	ktce/kt	7,429.04	ktce
COKE OVEN GAS	2,314.23	Mm <sup>3</sup>	0.5700	ktce/Mm <sup>3</sup>	1,319.11	ktce
BLAST FURNACE GAS	11,301.94	Mm <sup>3</sup>	0.4300	ktce/Mm <sup>3</sup>	4,859.83	ktce
CRUDE OIL AND NGL/CONDENSATE	997.00	kt	1.4300	ktce/kt	1,425.71	ktce
REFINERY GAS	1,021.00	kt	1.5000	ktce/kt	1,531.50	ktce
LPG	45.00	kt	1.5700	ktce/kt	70.65	ktce
DIESEL OIL	320.00	kt	1.4500	ktce/kt	464.00	ktce
FUEL OIL	10,703.00	kt	1.3731	ktce/kt	14,696.09	ktce
NATURAL GAS AND LNG	109,179.50	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	125,993.14	ktce
COKE	39.00	kt	0.9900	ktce/kt	38.61	ktce
BRIQUETTES	46.00	kt	0.6000	ktce/kt	27.60	ktce
HYDRO POWER	922.00	GWh	0.1229	ktce/GWh	113.27	ktce
OTHERS	168,355.00	TJ	0.0341	ktce/TJ	5,744.42	ktce
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	31,508.00	kt	0.9900	ktce/kt	31,192.92	ktce
COKE OVEN GAS	4,779.67	Mm <sup>3</sup>	0.5700	ktce/Mm <sup>3</sup>	2,724.41	ktce
BRIQUETTES	93.00	kt	0.6000	ktce/kt	55.80	ktce
<b>GAS RECOVERING</b>						
BLAST FURNACE GAS	26,269.81	Mm <sup>3</sup>	0.4300	ktce/Mm <sup>3</sup>	11,296.02	ktce
<b>REFINING</b>						
REFINERY GAS	12,707.00	kt	1.5000	ktce/kt	19,060.50	ktce
LPG	7,610.00	kt	1.5700	ktce/kt	11,947.70	ktce
MOGAS	28,992.00	kt	1.5286	ktce/kt	44,316.34	ktce
JET FUEL	9,339.00	kt	1.5214	ktce/kt	14,208.62	ktce
KEROSENE	65.00	kt	1.4929	ktce/kt	97.04	ktce
DIESEL OIL	52,724.00	kt	1.4500	ktce/kt	76,449.80	ktce
FUEL OIL	58,896.00	kt	1.3725	ktce/kt	80,834.85	ktce
OTHER PETROLEUM PRODUCTS	14,047.00	kt	1.3725	ktce/kt	19,279.53	ktce
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	533,417.00	GWh	0.1229	ktce/GWh	65,534.09	ktce
COAL	157,187.00	GWh	0.1229	ktce/GWh	19,311.55	ktce
OIL	22,137.00	GWh	0.1229	ktce/GWh	2,719.69	ktce
GAS	354,093.00	GWh	0.1229	ktce/GWh	43,502.85	ktce
HYDRO POWER	165,241.00	GWh	0.1229	ktce/GWh	20,301.04	ktce
NUCLEAR POWER	141,629.00	GWh	0.1229	ktce/GWh	17,400.13	ktce
GEOHERMAL POWER	156.00	GWh	0.1229	ktce/GWh	19.17	ktce
OTHER POWER	6.00	GWh	0.1229	ktce/GWh	0.74	ktce
WIND	6.00	GWh	0.1229	ktce/GWh	0.74	ktce
HEAT	60,470.36	ktce	1.4860	ktce/ktce	89,858.96	ktce
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	51,870.00	GWh	0.1229	ktce/GWh	6,372.60	ktce
COAL	9,913.00	GWh	0.1229	ktce/GWh	1,217.88	ktce
OIL	11,306.00	GWh	0.1229	ktce/GWh	1,389.02	ktce
GAS	30,651.00	GWh	0.1229	ktce/GWh	3,765.69	ktce
HYDRO POWER	922.00	GWh	0.1229	ktce/GWh	113.27	ktce
OTHERS	2,801.00	GWh	0.1229	ktce/GWh	344.12	ktce
HEAT	89,932.49	ktce	1.4860	ktce/ktce	133,639.69	ktce
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COAL	752.00	kt	0.6883	ktce/kt	517.64	ktce
HARD COAL	553.00	kt	0.7680	ktce/kt	424.70	ktce
LIGNITE	199.00	kt	0.4670	ktce/kt	92.93	ktce
COKE	314.00	kt	0.9900	ktce/kt	310.86	ktce
BRIQUETTES	1.00	kt	0.6000	ktce/kt	0.60	ktce
CRUDE OIL AND NGL/CONDENSATE	2,991.00	kt	1.4300	ktce/kt	4,277.13	ktce
REFINERY GAS	6,433.00	kt	1.3702	ktce/kt	8,814.43	ktce
LPG	11.00	kt	1.5700	ktce/kt	17.27	ktce
DIESEL OIL	1,039.00	kt	1.4500	ktce/kt	1,506.55	ktce
FUEL OIL	2,823.00	kt	1.3702	ktce/kt	3,868.04	ktce
NATURAL GAS AND LNG	19,337.12	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	22,315.04	ktce
ELECTRICITY	260,105.00	GWh	0.1229	ktce/GWh	31,955.76	ktce
HEAT	19,721.80	ktce	1.4860	ktce/ktce	29,306.60	ktce
OTHERS	4,689.00	TJ	0.0341	ktce/TJ	159.99	ktce
TOTAL LOSSES AND OWN USE					103,049.91	ktce
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	20,090.00	kt	0.6847	ktce/kt	13,756.33	ktce
HARD COAL	14,568.00	kt	0.7680	ktce/kt	11,188.22	ktce
LIGNITE	5,222.00	kt	0.4651	ktce/kt	2,568.11	ktce
COKE	6,454.00	kt	0.9900	ktce/kt	6,389.46	ktce
COKE OVEN GAS	2,465.44	Mm <sup>3</sup>	0.5700	ktce/Mm <sup>3</sup>	1,405.30	ktce
BRIQUETTES	42.00	kt	0.6000	ktce/kt	25.20	ktce
BLAST FURNACE GAS	14,967.87	Mm <sup>3</sup>	0.4300	ktce/Mm <sup>3</sup>	6,436.18	ktce
CRUDE OIL AND NGL/CONDENSATE	163.00	kt	1.4300	ktce/kt	233.09	ktce
REFINERY GAS	5,253.00	kt	1.5000	ktce/kt	7,879.50	ktce
LPG	5,956.00	kt	1.5700	ktce/kt	9,350.92	ktce
MOGAS	25,485.00	kt	1.5286	ktce/kt	38,955.64	ktce
JET FUEL	9,339.00	kt	1.5214	ktce/kt	14,208.62	ktce
KEROSENE	65.00	kt	1.4929	ktce/kt	97.04	ktce
DIESEL OIL	21,525.00	kt	1.4500	ktce/kt	31,211.25	ktce
FUEL OIL	4,606.00	kt	1.3977	ktce/kt	6,437.73	ktce

Original Table (Energy Demand and Supply) of Russia in 2002 (Continued)

Year:2002

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
OTHER PETROLEUM PRODUCTS	14,047.00	kt	1.3725	ktce/kt	19,279.53	ktce
NATURAL GAS AND LNG	159,204.40	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	183,721.88	ktce
HEAT	130,681.05	ktce	1.4860	ktce/ktce	194,192.05	ktce
ELECTRICITY	618,237.00	GWh	0.1229	ktce/GWh	75,954.83	ktce
OTHERS	109,767.00	TJ	0.0341	ktce/TJ	3,745.34	ktce
<b>TOTAL</b>					613,279.90	ktce
<b>AGRICULTURE</b>						
COAL	381.00	kt	0.6882	ktce/kt	262.21	ktce
HARD COAL	280.00	kt	0.7680	ktce/kt	215.04	ktce
LIGNITE	101.00	kt	0.4670	ktce/kt	47.17	ktce
COKE	1.00	kt	0.9900	ktce/kt	0.99	ktce
BRIQUETTES	2.00	kt	0.6000	ktce/kt	1.20	ktce
CRUDE OIL AND NGL/CONDENSATE	8.00	kt	1.4300	ktce/kt	11.44	ktce
LPG	7.00	kt	1.5700	ktce/kt	10.99	ktce
DIESEL OIL	4,084.00	kt	1.4500	ktce/kt	5,921.80	ktce
FUEL OIL	102.00	kt	1.4048	ktce/kt	143.29	ktce
NATURAL GAS AND LNG	663.61	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	765.81	ktce
HEAT	3,790.70	ktce	1.4860	ktce/ktce	5,632.98	ktce
ELECTRICITY	22,700.00	GWh	0.1229	ktce/GWh	2,788.86	ktce
OTHERS	5,807.00	TJ	0.0341	ktce/TJ	198.14	ktce
<b>TOTAL</b>					15,737.70	ktce
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	13,693.00	kt	0.6648	ktce/kt	9,103.63	ktce
HARD COAL	9,000.00	kt	0.7680	ktce/kt	6,912.00	ktce
LIGNITE	4,693.00	kt	0.4670	ktce/kt	2,191.63	ktce
COKE	8.00	kt	0.9900	ktce/kt	7.92	ktce
BRIQUETTES	39.00	kt	0.6000	ktce/kt	23.40	ktce
CRUDE OIL AND NGL/CONDENSATE	88.00	kt	1.4300	ktce/kt	125.84	ktce
LPG	2,253.00	kt	1.5700	ktce/kt	3,537.21	ktce
KEROSENE	65.00	kt	1.4929	ktce/kt	97.04	ktce
DIESEL OIL	1,382.00	kt	1.4500	ktce/kt	2,003.90	ktce
FUEL OIL	672.00	kt	1.3785	ktce/kt	926.38	ktce
NATURAL GAS AND LNG	61,221.10	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	70,649.15	ktce
HEAT	77,397.09	ktce	1.4860	ktce/ktce	115,012.08	ktce
ELECTRICITY	208,066.00	GWh	0.1229	ktce/GWh	25,562.39	ktce
OTHERS	74,356.00	TJ	0.0341	ktce/TJ	2,537.09	ktce
<b>TOTAL</b>					229,586.02	ktce
<b>OTHERS</b>						
COAL	1,654.00	kt	0.7357	ktce/kt	1,216.87	ktce
HARD COAL	1,477.00	kt	0.7680	ktce/kt	1,134.34	ktce
LIGNITE	177.00	kt	0.4663	ktce/kt	82.53	ktce
COKE	3.00	kt	0.9900	ktce/kt	2.97	ktce
BRIQUETTES	1.00	kt	0.6000	ktce/kt	0.60	ktce
CRUDE OIL AND NGL/CONDENSATE	40.00	kt	1.4300	ktce/kt	57.20	ktce
LPG	8.00	kt	1.5700	ktce/kt	12.56	ktce
DIESEL OIL	1,308.00	kt	1.4500	ktce/kt	1,896.60	ktce
FUEL OIL	294.00	kt	1.4071	ktce/kt	413.68	ktce
OTHER PETROLEUM PRODUCTS	5,838.00	kt	1.3725	ktce/kt	8,012.66	ktce
NATURAL GAS AND LNG	1,718.20	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	1,982.80	ktce
OTHERS	12,351.00	TJ	0.0341	ktce/TJ	421.43	ktce
<b>TOTAL</b>					14,017.37	ktce
<b>INDUSTRY</b>						
COAL	3,626.00	kt	0.7518	ktce/kt	2,726.12	ktce
HARD COAL	3,432.00	kt	0.7680	ktce/kt	2,635.78	ktce
LIGNITE	194.00	kt	0.4657	ktce/kt	90.34	ktce
COKE	5,104.00	kt	0.9900	ktce/kt	5,052.96	ktce
COKE OVEN GAS	2,465.44	Mm <sup>3</sup>	0.5700	ktce/Mm <sup>3</sup>	1,405.30	ktce
BLAST FURNACE GAS	14,967.87	Mm <sup>3</sup>	0.4300	ktce/Mm <sup>3</sup>	6,436.18	ktce
CRUDE OIL AND NGL/CONDENSATE	22.00	kt	1.4300	ktce/kt	31.46	ktce
REFINERY GAS	5,253.00	kt	1.5000	ktce/kt	7,879.50	ktce
LPG	3,466.00	kt	1.5700	ktce/kt	5,441.62	ktce
DIESEL OIL	2,841.00	kt	1.4500	ktce/kt	4,119.45	ktce
FUEL OIL	2,970.00	kt	1.4089	ktce/kt	4,184.30	ktce
OTHER PETROLEUM PRODUCTS	1,062.00	kt	1.3725	ktce/kt	1,457.60	ktce
NATURAL GAS AND LNG	56,670.99	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	65,398.32	ktce
HEAT	49,493.26	ktce	1.4860	ktce/ktce	73,546.99	ktce
ELECTRICITY	319,641.00	GWh	0.1229	ktce/GWh	39,270.18	ktce
OTHERS	17,253.00	TJ	0.0341	ktce/TJ	588.69	ktce
<b>TOTAL</b>					217,538.67	ktce
<b>TRANSPORT</b>						
CRUDE OIL AND NGL/CONDENSATE	5.00	kt	1.4300	ktce/kt	7.15	ktce
LPG	222.00	kt	1.5700	ktce/kt	348.54	ktce
MOGAS	25,485.00	kt	1.5286	ktce/kt	38,955.64	ktce
JET FUEL	9,339.00	kt	1.5214	ktce/kt	14,208.62	ktce
DIESEL OIL	11,910.00	kt	1.4500	ktce/kt	17,269.50	ktce
FUEL OIL	568.00	kt	1.3782	ktce/kt	782.83	ktce
NATURAL GAS AND LNG	38,930.51	Mm <sup>3</sup>	1.1540	ktce/Mm <sup>3</sup>	44,925.81	ktce
ELECTRICITY	67,830.00	GWh	0.1229	ktce/GWh	8,333.40	ktce
<b>TOTAL</b>					124,831.50	ktce
<b>NON-ENERGY</b>						
COAL	661.00	kt	0.6384	ktce/kt	422.00	ktce

Original Table (Energy Demand and Supply) of Russia in 2002 (Continued)

Year:2002

Russia	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
HARD COAL	379.00	kt	0.7680	ktce/kt	291.07	ktce
LIGNITE	282.00	kt	0.4643	ktce/kt	130.93	ktce
COKE	1,338.00	kt	0.9900	ktce/kt	1,324.62	ktce
OTHER PETROLEUM PRODUCTS	7,147.00	kt	1.3725	ktce/kt	9,809.27	ktce
TOTAL NON-ENERGY USE					11,555.89	ktce

**ELECTRICITY GENERATING CAPACITY**At the time of 2002  
unit: MW

THERMAL POWER	147,213	
COAL		
OIL		
GAS		
HYDRO POWER	44,828	
NUCLEAR POWER	22,742	
GEOHERMAL POWER	77	
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

**REFINING CAPACITY**

At the time of 2002

	Unit	
OPERATING RATE	%	
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	

**NON-COMMERCIAL ENERGY TABLE**At the time of 2002  
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					



## 3.17 Singapore

## Energy Balance Table of Singapore in 2001

	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
<b>1 Indigenous Production</b>	-	-	-	-	-	-	-	-	-
<b>2 Import</b>	0	0	41,508	41,909	4,136	1,747	1,513	539	5,308
<b>3 Export</b>	0	0	-	-41,278	-7,505	-2,793	-5,400	-937	-11,467
<b>4 International Marine Bunkers</b>	-	-	-	-21,957	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	0	0	41,508	-21,326	-3,369	-1,047	-3,887	-398	-6,159
<b>7 Public Electricity</b>	-	-	-	-	-	-	-	-	-
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	-	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	0	0	-41,508	21,326	3,369	1,047	3,887	398	6,159
<b>14 Total Final Energy Consumption</b>	-	-	-	-	-	-	-	-	-
<b>15 Industry Sector</b>	-	-	-	-	-	-	-	-	-
<b>16 Transport Sector</b>	-	-	-	-	-	-	-	-	-
<b>17 Other Sector</b>	-	-	-	-	-	-	-	-	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	-	-	-	-	-	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	-	-	-	-	-	-

## 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
<b>1 Indigenous Production</b>	-	-	-	-	-	-	-	-	-
<b>2 Import</b>	0	6	41,365	44,029	4,790	2,539	2,709	483	7,478
<b>3 Export</b>	0	0	-	-36,579	-7,063	-2,168	-4,747	-850	-12,051
<b>4 International Marine Bunkers</b>	-	-	-	-22,769	-	-	-	-	-
<b>5 Stock Changes</b>	-	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	0	6	41,365	-15,319	-2,273	370	-2,038	-367	-4,573
<b>7 Public Electricity</b>	-	-	-	-	-	-	-	-	-
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-130	-	-130	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	-	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-	-	-	-	-	-	-
<b>13 Discrepancy</b>	0	-6	-41,365	15,450	2,273	-240	2,038	367	4,573
<b>14 Total Final Energy Consumption</b>	-	-	-	-	-	-	-	-	-
<b>15 Industry Sector</b>	-	-	-	-	-	-	-	-	-
<b>16 Transport Sector</b>	-	-	-	-	-	-	-	-	-
<b>17 Other Sector</b>	-	-	-	-	-	-	-	-	-
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	-	-	-	-	-	-	-	-	-
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	-	-	-	-	-	-

Energy Balance Table of Singapore in 2001 (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	
-	-	-	-	-	-	-	-	-	-	-	-	-	
28,472	1	-	194	0	-	-	-	-	-	-	-	83,417	
-11,173	-737	-	-1,265	0	-	-	-	-	-	-	-	-41,279	
-21,957	-	-	-	-	-	-	-	-	-	-	-	-21,957	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-4,659	-737	-	-1,072	0	-	-	-	-	-	-	-	20,182	
-	-	-	-	-1,511	-	-	-	-	-	2,846	-	1,335	
-	-	-	-	-	106	-	-	-	-	-	-	106	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
4,659	737	-	1,072	1,511	-106	-	-	-	-	-295	-	-19,072	
-	-	-	-	-	-	-	-	-	-	2,550	-	2,550	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	

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	
-	-	-	-	-	-	-	-	-	-	-	-	-	
25,722	3	-	305	20	-	-	-	-	-	-	-	85,421	
-7,280	-694	-	-1,725	0	-	-	-	-	-	-	-	-36,579	
-22,769	-	-	-	-	-	-	-	-	-	-	-	-22,769	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-4,328	-690	-	-1,420	20	-	-	-	-	-	-	-	26,073	
-	-	-	-	-2,306	-	-	-	-	-	2,981	-	675	
-	-	-	-	-	-	-	-	-	-	-	-	-130	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
4,328	690	-	1,420	2,286	107	-	-	-	-	-307	-	-23,837	
-	-	-	-	-	107	-	-	-	-	2,674	-	2,781	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	



## Major Energy Indicators of Singapore

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	2,439	10,491	4,722	9,088	5,725	9,086	11,635	7,744	10,928
Indigenous Production	2	3	3	3	9	16	17	17	19
Import	29,229	38,401	36,502	38,279	41,763	44,652	53,043	52,852	59,796
Export	-22,104	-22,975	-26,882	-24,449	-27,964	-27,472	-31,831	-32,652	-35,817
Final Energy Consumption	1,004	1,397	1,515	1,518	1,599	1,683	1,917	2,048	2,237
Industry	270	318	355	362	385	438	496	548	611
Transport	440	701	759	722	746	728	765	808	863
Residential & Commercial	294	378	401	434	468	517	656	692	763
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	24,182	29,191	30,785	28,389	30,880	29,965	31,824	35,559	41,286
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	24,255	29,641	31,105	28,472	30,967	30,060	33,251	35,559	41,286
Export	-73	-450	-320	-82	-87	-95	-1,428	-0	-0
Transformation Sector	-25,532	-30,821	-32,503	-29,973	-32,604	-32,659	-33,600	-37,544	-43,571
Petroleum Refineries	-25,532	-30,821	-32,503	-29,973	-32,604	-32,659	-33,600	-37,544	-43,571
Petroleum Products									
Primary Energy Supply	-21,737	-18,698	-26,059	-19,301	-25,165	-20,895	-20,206	-27,832	-30,377
Import	4,974	8,761	5,397	9,807	10,795	14,592	19,792	17,293	18,510
Export	-22,023	-22,521	-26,556	-24,363	-27,877	-27,378	-30,403	-32,652	-35,817
Transformation Sector	27,671	33,147	30,435	27,541	30,284	28,092	28,818	32,587	35,929
Power Generation	-1,575	-1,998	-2,112	-2,021	-2,311	-2,597	-2,827	-3,060	-3,388
Petroleum Refineries	29,299	35,198	32,600	29,611	32,647	30,744	31,703	35,710	39,387
Final Energy Consumption	440	701	759	722	746	726	852	896	962
Industry	-	-	-	-	-	-	-	-	-
Transport	440	701	759	722	746	726	756	796	847
Residential & Commercial	-	-	-	-	-	-	96	100	115
Agriculture	-	-	-	-	-	-	-	-	-
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	-
Indigenous Production	-	-	-	-	-	-	-	-	-
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	43	42	42	38	38	42	-1	49	55
Power Generation	-	-	-	-	-	-	-	-	-
Final Energy Consumption	38	39	40	38	38	42	47	49	55
Industry	16	17	17	16	18	22	25	27	32
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	22	22	23	21	21	20	21	22	23
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	599	745	813	853	909	1,016	1,119	1,207	1,343
Thermal	599	745	813	853	909	1,016	1,119	1,207	1,343
Hydro	-	-	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	525	657	716	758	815	915	1,018	1,102	1,220
Industry	253	301	338	346	367	416	470	521	579
Transport	-	-	-	-	0	3	9	11	16
Residential & Commercial	272	356	378	413	448	496	539	570	625
Agriculture	-	-	-	-	-	-	-	-	-

## Major Energy Indicators of Singapore (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
12,290	14,922	15,621	12,309	15,618	20,999	25,575	20,975	19,733	20,578	20,182	26,073	
19	34	54	53	50	55	61	64	-	-	-	-	
63,668	69,998	75,173	77,641	78,732	86,013	88,936	85,824	84,017	77,282	83,417	85,421	
-36,901	-38,481	-42,978	-47,401	-46,458	-48,213	-45,160	-45,679	-45,179	-36,837	-41,279	-36,579	
2,376	2,498	2,667	2,709	2,853	3,042	3,356	3,513	3,560	2,629	2,550	2,781	
662	682	733	806	841	899	1,014	1,016	-	-	-	-	
927	978	1,025	1,019	1,046	1,089	1,163	1,172	-	-	-	-	
785	835	903	875	964	1,052	1,177	1,231	-	-	-	-	
2	2	2	2	2	2	2	3	-	-	-	-	
-116	-55	-40	3	0	-2	1	-0	0	0	0	7	
-	-	-	-	-	-	-	-	-	-	-	-	
17	21	27	27	17	8	6	3	1	0	1	7	
-132	-76	-67	-24	-16	-11	-6	-3	-0	-0	-0	-0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
45,827	47,303	53,540	51,769	51,984	56,149	56,300	52,651	45,046	41,585	41,508	41,365	
-	-	-	-	-	-	-	-	-	-	-	-	
45,827	47,303	53,540	51,830	52,046	56,149	56,301	52,651	45,046	41,585	41,508	41,365	
-0	-	-	-61	-62	-	-2	-	-	-	-	-	
-47,982	-47,303	-56,233	-58,243	-59,742	-61,593	-64,382	-65,020	-	-	-	-	
-47,982	-47,303	-56,233	-58,243	-59,742	-61,593	-64,382	-65,020	-	-	-	-	
-33,441	-32,713	-38,880	-40,644	-37,592	-36,252	-31,821	-32,871	-25,313	-21,007	-21,326	-15,319	
17,824	22,320	20,660	24,656	25,494	28,807	31,594	32,039	38,970	35,696	41,909	44,029	
-36,769	-38,404	-42,911	-47,316	-46,380	-48,202	-45,152	-45,676	-45,179	-36,837	-41,278	-36,579	
36,899	37,747	42,855	44,312	43,114	45,417	-4,444	-4,657	-	-	-	-130	
-3,821	-3,450	-3,041	-3,170	-3,460	-3,952	-4,326	-4,535	-	-	-	-	
40,800	41,113	45,988	47,579	46,673	49,476	-	-	-	-	-	-	
1,012	1,061	1,111	1,002	1,029	1,069	1,141	1,174	1,137	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
911	962	1,009	1,002	1,029	1,069	1,141	1,150	-	-	-	-	
101	99	102	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	353	948	1,129	1,176	1,049	1,034	1,132	-	-	-0	20	
-	-	-	-	-	-	-	-	-	-	-	-	
-	353	948	1,129	1,176	1,049	1,034	1,132	-	-	0	20	
-	-	-	-	-	-	-	-	-	-	-0	-0	
67	-354	-870	-1,132	-1,092	-960	-944	-1,036	-821	-942	-1,405	-2,306	
-	-353	-948	-1,129	-1,176	-1,049	-1,034	-1,132	-922	-942	-1,511	-2,306	
67	65	78	81	84	89	94	96	94	-	-	107	
40	40	49	52	53	57	61	61	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
27	25	29	30	30	32	33	35	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
1,427	1,520	1,646	1,793	1,913	2,073	2,313	2,444	2,467	2,629	2,846	2,981	
1,427	1,520	1,646	1,793	1,913	2,073	2,313	2,444	2,467	2,629	2,846	2,981	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
1,297	1,372	1,479	1,626	1,741	1,884	2,121	2,242	2,329	2,629	2,550	2,674	
622	642	684	754	788	842	953	954	-	-	-	-	
16	16	16	17	17	20	21	22	-	-	-	-	
658	711	772	845	933	1,020	1,144	1,196	-	-	-	-	
2	2	2	2	2	2	2	3	-	-	-	-	

## Major Economic Indicators of Singapore

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	2.41	2.68	2.73	2.74	2.73	2.78	2.85	2.93
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	26.78	34.16	37.01	36.48	37.26	40.88	45.51	50.02
Real Term (Billions of 1995 Price and 1995 PPP)	20.12	25.67	27.81	27.41	27.99	30.72	34.19	37.58
Nominal (Billions of Current USD)	11.72	17.38	18.77	17.69	17.96	20.54	25.33	30.12
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	11,094	12,743	13,547	13,332	13,633	14,733	15,990	17,066
Real Term (1995 Price and 1995 PPP)	8,335	9,574	10,178	10,017	10,242	11,069	12,014	12,822
Nominal (Current USD)	4,854	6,484	6,872	6,466	6,571	7,403	8,901	10,275
Nominal GDP & its Components (Billions of Current SGD) *1								
Gross Domestic Product	25.09	36.73	40.05	38.92	39.10	43.27	50.98	58.73
Household Final Consumption Expenditure, etc.	12.91	16.20	17.57	17.55	18.40	20.70	24.39	27.66
General Government Final Consumption Expenditure	2.45	4.00	4.33	5.55	5.27	5.31	5.34	6.01
Gross Fixed Capital Formation	10.20	17.46	19.12	16.42	14.13	14.41	15.67	18.91
Stock Change	1.42	0.13	0.30	0.13	0.58	1.89	1.66	1.46
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	48.42	52.46	51.70	52.81	57.95	64.50	70.90
Household Final Consumption Expenditure, etc.	19.67	22.38	23.52	23.31	24.35	26.70	30.29	32.87
General Government Final Consumption Expenditure	3.86	5.04	5.30	6.60	6.67	6.73	6.33	6.68
Gross Fixed Capital Formation	13.61	20.88	22.86	20.11	17.60	17.49	18.16	21.02
Stock Change	2.49	0.67	0.71	0.49	1.24	3.02	1.67	1.31
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	1.0	0.9	0.8	0.7	0.6	0.5	0.4
Industry	34.0	34.5	35.1	32.1	30.8	30.8	31.2	30.7
Services, etc.	57.9	56.8	56.3	59.4	61.0	61.1	61.1	61.4
Manufacturing Production Index (2000=100) *2	24.4	25.8	28.2	26.1	28.4	33.3	39.4	43.4
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	19.376	21.833	24.070	22.812	22.495	28.687	39.306	44.665
Imports, c.i.f.	24.007	28.158	28.667	26.285	25.511	32.559	43.864	49.667
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-2.971	-4.358	-2.643	-1.518	-0.940	-1.143	0.028	-0.313
Current Account	-1.563	-0.610	-0.385	-0.004	0.319	-0.109	1.937	2.964
Overall Balance	0.663	1.059	1.524	1.337	0.538	1.095	1.659	2.738
Foreign Exchange Rate (SGD/USD) *1	2.1412	2.1130	2.1331	2.2001	2.1774	2.1060	2.0124	1.9503
Purchasing Power Parity (SGD/International Dollar) *1	2.0049	1.9721	1.9570	1.9024	1.8179	1.7394	1.8042	1.8412
Price Indices								
GDP Deflator (1995=100) *3	66.1	75.9	76.3	75.3	74.0	74.7	79.0	82.8
Wholesale Price Index (2000=100) *2	121.9	116.8	116.1	113.5	96.4	103.6	101.7	104.3
Consumer Price Index (2000=100) *2	67.4	76.7	78.7	79.1	78.0	78.4	79.6	81.5
Growth Rate (%) *3								
Real GDP	9.70	8.51	8.33	-1.44	2.14	9.73	11.31	9.92
Population	1.26	1.28	1.90	0.15	-0.11	1.54	2.56	2.99
Price								
Wholesale Price Index	19.6	-3.6	-0.6	-2.2	-15.1	7.5	-1.8	2.6
Consumer Price Index	8.5	1.2	2.6	0.5	-1.4	0.5	1.5	2.3

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"

: SGD shows Singapore Dollar, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Singapore (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
3.05	3.14	3.23	3.32	3.42	3.53	3.67	3.79	3.92	3.95	4.02	4.13	4.16
54.54	58.22	62.12	69.73	77.69	83.93	90.77	98.49	97.64	103.92	113.69	110.99	113.49
40.97	43.74	46.67	52.39	58.37	63.06	68.19	74.00	73.36	78.07	85.42	83.39	85.26
36.90	43.19	49.86	58.35	70.61	83.93	92.22	95.39	81.91	81.38	91.48	84.87	86.97
17,898	18,566	19,220	21,036	22,708	23,804	24,732	25,960	24,890	26,294	28,295	26,868	27,254
13,447	13,949	14,440	15,804	17,061	17,884	18,582	19,504	18,700	19,755	21,259	20,186	20,476
12,111	13,772	15,428	17,603	20,640	23,804	25,128	25,143	20,879	20,592	22,766	20,545	20,886
66.88	74.61	81.22	94.29	107.85	118.96	130.03	141.64	137.08	137.94	157.70	152.07	155.73
30.85	33.54	36.42	42.23	47.18	49.13	53.44	56.08	52.60	56.63	64.81	66.43	66.90
6.78	7.35	7.46	8.72	9.01	10.11	12.22	13.18	13.88	14.01	17.30	19.37	20.06
21.58	25.09	28.81	32.75	36.20	39.73	49.54	54.82	51.53	47.10	47.29	44.84	40.06
2.77	0.66	0.27	2.50	-0.50	0.83	-2.86	0.71	-7.22	-2.35	3.61	-7.99	-7.96
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.
77.30	82.52	88.05	98.84	110.11	118.96	128.65	139.60	138.40	147.29	161.14	157.32	160.85
35.36	37.48	39.66	44.39	47.70	49.13	53.11	54.77	52.47	56.76	64.74	66.24	66.81
7.42	7.99	8.03	9.21	9.05	10.11	12.06	13.03	14.11	15.06	17.72	19.18	20.03
23.18	26.29	29.38	32.40	35.53	39.73	5.42	54.74	51.46	48.91	52.77	49.74	44.93
3.40	0.74	0.25	2.66	-0.41	0.83	-1.74	-0.09	-7.83	-2.75	1.05	-8.92	-8.49
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	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
30.8	31.3	31.1	30.2	30.7	31.2	33.0	32.7	33.1	33.2	33.7	31.3	31.8
61.3	61.2	61.3	62.5	55.9	61.5	60.0	60.3	60.5	60.3	59.9	62.3	61.9
47.7	50.2	51.5	56.7	64.1	70.7	73.0	76.4	76.1	86.7	100.0	88.4	95.9
52.730	58.966	63.472	74.012	96.825	118.268	125.014	124.985	109.895	114.680	137.804	121.751	125.177
60.774	66.095	72.171	85.234	102.670	124.507	131.338	132.437	101.732	111.060	134.545	116.000	116.441
-1.633	-0.110	-1.821	-2.724	1.354	4.907	5.653	4.681	14.347	11.976	12.298	14.768	18.549
3.122	4.880	5.915	4.211	11.400	14.800	13.977	14.908	18.544	15.184	13.280	16.137	18.704
5.431	4.197	6.100	7.578	4.736	8.599	7.396	7.940	2.965	4.194	6.806	-0.861	1.342
1.8125	1.7276	1.6290	1.6158	1.5274	1.4174	1.4100	1.4848	1.6736	1.6950	1.7240	1.7917	1.7906
1.8526	1.8500	1.8671	1.8350	1.8803	1.8865	1.8428	1.8674	1.7813	1.6479	1.6491	1.6023	1.5554
86.5	90.4	92.3	95.4	97.9	100.0	101.1	101.5	99.1	93.7	97.9	96.7	96.8
106.1	101.8	97.3	93.1	92.7	92.7	92.8	91.8	89.0	90.8	100.0	98.4	97.0
84.3	87.2	89.2	91.2	94.0	95.6	97.0	98.9	98.6	98.7	100.0	101.0	100.6
9.03	6.76	6.69	12.26	11.40	8.04	8.15	8.51	-0.86	6.42	9.41	-2.37	2.25
3.96	2.92	3.06	2.57	3.20	3.07	4.08	3.38	3.40	0.74	1.67	2.81	0.80
1.7	-4.1	-4.4	-4.4	-0.4	0.0	0.1	-1.2	-3.0	2.1	10.1	-1.6	-1.5
3.5	3.4	2.3	2.3	3.1	1.7	1.4	2.0	-0.3	0.0	1.4	1.0	-0.4

## Original Table (Energy Demand and Supply) of Singapore in 2002

Year:2002

Singapore	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
TOTAL PRODUCTION						ktoe
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						ktoe
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						ktoe
<b>STOCK CHANGE</b>						
TOTAL STOCK CHANGE						ktoe
<b>IMPORTS</b>						
COAL	0.51	000 tonne	0.6116	ktoe/kt	0.31	ktoe
HARD COAL	0.22	000 tonne	0.6116	ktoe/kt	0.13	ktoe
ANTHRACITE	0.22	000 tonne	0.6116	ktoe/kt	0.13	ktoe
LIGNITE	0.07	000 tonne	0.6116	ktoe/kt	0.04	ktoe
COKE	10.26	000 tonne	0.6116	ktoe/kt	6.28	ktoe
BRIQUETTES	0.04	000 tonne	0.6116	ktoe/kt	0.03	ktoe
CRUDE OIL AND NGL/CONDENSATE	40,660.40	000 tonne	1.0173	ktoe/kt	41,365.35	ktoe
CRUDE OIL	40,660.40	000 tonne	1.0173	ktoe/kt	41,365.35	ktoe
LPG	2.87	000 tonne	1.1327	ktoe/kt	3.25	ktoe
NAPHTHA	2,241.21	000 tonne	1.1327	ktoe/kt	2,538.51	ktoe
MOGAS	4,512.47	000 tonne	1.0615	ktoe/kt	4,790.04	ktoe
JET FUEL	2,295.19	000 tonne	1.1804	ktoe/kt	2,709.28	ktoe
KEROSENE	456.50	000 tonne	1.0583	ktoe/kt	483.12	ktoe
DIESEL OIL	7,183.83	000 tonne	1.0409	ktoe/kt	7,477.88	ktoe
FUEL OIL	27,518.47	000 tonne	0.9347	ktoe/kt	25,721.76	ktoe
OTHER PETROLEUM PRODUCTS	310.96	000 tonne	0.9804	ktoe/kt	304.86	ktoe
NATURAL GAS AND LNG	17.25	000 tonne	1.1715	ktoe/kt	20.21	ktoe
LNG	17.25	000 tonne	1.1715	ktoe/kt	20.21	ktoe
TOTAL IMPORTS					85,420.87	ktoe
<b>EXPORTS</b>						
ANTHRACITE	0.01	000 tonne	0.6116	ktoe/kt	0.00	ktoe
COKE	0.04	000 tonne	0.6116	ktoe/kt	0.02	ktoe
LPG	612.38	000 tonne	1.1327	ktoe/kt	693.61	ktoe
NAPHTHA	1,914.12	000 tonne	1.1327	ktoe/kt	2,168.03	ktoe
MOGAS	6,654.18	000 tonne	1.0615	ktoe/kt	7,063.48	ktoe
JET FUEL	4,021.72	000 tonne	1.1804	ktoe/kt	4,747.30	ktoe
KEROSENE	802.91	000 tonne	1.0583	ktoe/kt	849.73	ktoe
DIESEL OIL	11,577.36	000 tonne	1.0409	ktoe/kt	12,051.24	ktoe
FUEL OIL	7,788.84	000 tonne	0.9347	ktoe/kt	7,280.30	ktoe
OTHER PETROLEUM PRODUCTS	1,759.68	000 tonne	0.9804	ktoe/kt	1,725.19	ktoe
NATURAL GAS AND LNG	0.05	000 tonne	1.1715	ktoe/kt	0.05	ktoe
LNG	0.05	000 tonne	1.1715	ktoe/kt	0.05	ktoe
TOTAL EXPORTS					36,578.96	ktoe
<b>INTERNATIONAL MARINE BUNKERS</b>	19,289.05	000 tonne	1.1804	ktoe/kt	22,769.12	ktoe
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					26,072.79	ktoe
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
<b>GAS PROCESSING</b>						
NAPHTHA	115.10	000 tonnes	1.1327	ktoe/kt	130.37	ktoe
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
NATURAL GAS AND LNG	112,868.51	MMSCF	0.0204	ktoe/MMSCF	2,305.90	ktoe
NATURAL GAS	112,868.51	MMSCF	0.0204	ktoe/MMSCF	2,305.90	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
<b>GAS RECOVERING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	34,664.56	GWh	0.0860	ktoe/GWh	2,981.15	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
TOTAL LOSSES AND OWN USE						ktoe
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
TOWN GAS	1,388.80	million units	0.0774	ktoe/10 <sup>6</sup> units	107.42	ktoe
ELECTRICITY	31,089.30	GWh	0.0860	ktoe/GWh	2,673.68	ktoe
TOTAL					2,781.10	ktoe
<b>AGRICULTURE</b>						
TOTAL						ktoe
<b>RESIDENTIAL COMMERCIAL</b>						
TOTAL						ktoe
<b>OTHERS</b>						
TOTAL						ktoe
<b>INDUSTRY</b>						
TOTAL						ktoe
<b>TRANSPORT</b>						
TOTAL						ktoe
<b>NON-ENERGY</b>						
TOTAL NON-ENERGY USE						ktoe

Original Table (Energy Demand and Supply) of Singapore in 2002 (Continued)

**ELECTRICITY GENERATING CAPACITY**At the time of 2002  
unit: MW

THERMAL POWER	5,160	
COAL		
OIL	4,700	
GAS	460	
HYDRO POWER		
NUCLEAR POWER		
GEO THERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)	135	
COGENERATION	3,554	
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

**REFINING CAPACITY**

At the time of 2002

	Unit	
OPERATING RATE	%	
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	

**NON-COMMERCIAL ENERGY TABLE**At the time of 2002  
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 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	3	-	N.A
	FEB.	-	0	-	N.A
	MAR.	-	1	-	N.A
	<b>1st quarter</b>	-	4	-	N.A
	APR.	-	2	-	N.A
	MAY.	-	2	-	N.A
	JUN.	-	0	-	N.A
	<b>2nd quarter</b>	-	4	-	N.A
	JUL.	-	2	-	N.A
	AUG.	-	0	-	N.A
	SEP.	-	1	-	N.A
	<b>3rd quarter</b>	-	3	-	N.A
	OCT.	-	1	-	N.A
	NOV.	-	1	-	N.A
	DEC.	-	1	-	N.A
	<b>4th quarter</b>	-	3	-	N.A
		-	13	-	-

Oil		Unit: 1,000ton						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.		3,891		N.A	3,945	6,080	N.A
	FEB.		3,235		N.A	2,763	4,670	N.A
	MAR.		3,718		N.A	2,662	4,700	N.A
	<b>1st quarter</b>		10,843		N.A	9,370	15,450	N.A
	APR.		3,279		N.A	2,950	5,215	N.A
	MAY.		1,941		N.A	3,462	5,311	N.A
	JUN.		5,828		N.A	3,705	5,318	N.A
	<b>2nd quarter</b>		11,048		N.A	10,117	15,844	N.A
	JUL.		2,459		N.A	3,552	5,188	N.A
	AUG.		2,147		N.A	3,466	4,866	N.A
	SEP.		2,820		N.A	3,508	4,700	N.A
	<b>3rd quarter</b>		7,426		N.A	10,526	14,754	N.A
	OCT.		2,584		N.A	4,264	4,997	N.A
	NOV.		2,155		N.A	3,706	4,754	N.A
	DEC.		3,372		N.A	4,465	5,568	N.A
	<b>4th quarter</b>		8,112		N.A	12,434	15,319	N.A
		-	37,429	-	-	42,447	61,367	-

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

Natural Gas ( or LNG)		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	1	-	N.A
	FEB.	-	1	-	N.A
	MAR.	-	3	-	N.A
	<b>1st quarter</b>	-	6	-	N.A
	APR.	-	3	-	N.A
	MAY.	-	3	-	N.A
	JUN.	-	2	-	N.A
	<b>2nd quarter</b>	-	8	-	N.A
	JUL.	-	2	-	N.A
	AUG.	-	-	-	N.A
	SEP.	-	2	-	N.A
	<b>3rd quarter</b>	-	3	-	N.A
	OCT.	-	0	-	N.A
	NOV.	-	0	-	N.A
	DEC.	-	3	-	N.A
	<b>4th quarter</b>	-	3	-	N.A
		-	20	-	-

Electricity		Unit: GWh					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	2,814	2,814	-	-	-	-	-
	FEB.	2,488	2,488	-	-	-	-	-
	MAR.	2,945	2,945	-	-	-	-	-
	<b>1st quarter</b>	8,247	8,247	-	-	-	-	-
	APR.	2,850	2,850	-	-	-	-	-
	MAY.	3,010	3,010	-	-	-	-	-
	JUN.	2,920	2,920	-	-	-	-	-
	<b>2nd quarter</b>	8,780	8,780	-	-	-	-	-
	JUL.	3,019	2,937	-	-	81	-	-
	AUG.	2,991	2,905	-	-	86	-	-
	SEP.	2,923	2,836	-	-	87	-	-
	<b>3rd quarter</b>	8,932	8,679	-	-	254	-	-
	OCT.	3,019	2,944	-	-	75	-	-
	NOV.	2,873	2,806	-	-	68	-	-
	DEC.	2,930	2,844	-	-	87	-	-
	<b>4th quarter</b>	8,823	8,594	-	-	229	-	-
		34,783	34,300	-	-	483	-	-

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 2001

	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
<b>1 Indigenous Production</b>	-	-	35	-	-	-	-	-	-
<b>2 Import</b>	29,948	55	37,884	8,755	403	5,371	62	-	-
<b>3 Export</b>	-	-	-	-4,435	-193	-	-446	-121	-2,090
<b>4 International Marine Bunkers</b>	-	-	-	-2,393	-	-	-	-	-333
<b>5 Stock Changes</b>	-669	25	-140	-609	443	85	155	20	-164
<b>6 Total Primary Energy Supply</b>	29,278	79	37,779	1,318	653	5,456	-229	-101	-2,587
<b>7 Public Electricity</b>	-15,930	-	-	-4,224	-	-	-	-	-131
<b>8 Autoproducers of Electricity</b>	-4,611	-423	-	-868	-	-	-	-	-
<b>9 Gas Processing</b>	-	933	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-37,779	40,858	6,412	5,937	2,214	125	7,431
<b>11 Coal Transformation</b>	-3,670	3,663	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-2	-	-2,031	-2	-8	0	0	-63
<b>13 Discrepancy</b>	-497	0	-	-99	0	0	0	0	0
<b>14 Total Final Energy Consumption</b>	4,571	4,250	-	34,954	7,063	11,384	1,984	25	4,651
<b>15 Industry Sector</b>	4,503	4,250	-	18,115	3	11,384	0	8	175
<b>16 Transport Sector</b>	-	-	-	12,257	7,019	-	1,845	0	3,183
<b>17 Other Sector</b>	-	-	-	3,173	41	-	140	17	1,293
<b>18 Agriculture</b>	-	-	-	784	0	-	-	0	756
<b>19 Residential &amp; Commercial</b>	-	-	-	2,389	40	-	140	17	536
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	64	-	-	1,408	-	-	-	-	-

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

Energy Balance Table of Chinese Taipei in 2001 (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
-	-	-	-	680	-	789	9,248	-	-	-	-	10,751
1,167	1,048	-	704	5,533	-	-	-	-	-	-	-	82,174
-275	-446	-	-864	-	-	-	-	-	-	-	-	-4,435
-2,060	-	-	-1	-	-	-	-	-	-	-	-	-2,393
28	-28	-	-1,149	-169	-	-	-	-	-	-	-	-1,563
-1,139	574	-	-1,309	6,044	-	789	9,248	-	-	-	-	84,535
-4,093	-	-	-	-3,831	-	-789	-9,248	-	-	13,422	-	-20,599
-849	-	-19	-	-246	-	-	-	-	-	2,791	-	-3,357
-	-	-	-	-1,496	1,415	-	-	-	-	-	-	851
12,015	1,230	1,255	4,239	-	-	-	-	-	-	-	-	3,079
-	-	-	-	-	-	-	-	-	-	-	-	-7
-700	-21	-1,236	-	-	-413	-	-	-	-	-2,213	-	-4,659
0	0	0	-99	-471	471	-	-	-	-	0	-	-595
5,233	1,784	-	2,831	-	1,473	-	-	-	-	13,999	-	59,247
4,759	364	-	1,422	-	644	-	-	-	-	7,519	-	35,031
194	16	-	-	-	-	-	-	-	-	96	-	12,353
279	1,404	-	0	-	828	-	-	-	-	6,384	-	10,386
27	0	-	0	-	-	-	-	-	-	192	-	975
252	1,404	-	-	-	828	-	-	-	-	6,193	-	9,410
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	1,408	-	-	-	-	-	-	-	-	1,472

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	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	25,092	29,292	31,201	32,573	34,900	37,525	40,934	43,581	45,989
Indigenous Production	5,654	7,966	9,275	10,340	9,733	11,235	10,475	9,646	10,748
Import	20,642	22,597	23,898	23,922	26,200	28,621	34,043	35,874	39,723
Export	-297	-910	-1,305	-1,562	-909	-898	-678	-1,094	-335
Final Energy Consumption	16,997	18,456	19,760	21,305	23,603	25,688	28,323	28,998	29,814
Industry	9,922	10,313	11,031	12,180	13,848	14,953	16,464	15,808	15,667
Transport	3,320	3,787	4,112	4,287	4,656	5,245	5,925	6,627	7,248
Residential & Commercial	2,567	3,147	3,320	3,478	3,742	4,036	4,392	4,776	4,992
Agriculture	764	818	879	896	879	957	980	960	1,033
Coal, Coal Products									
Primary Energy Supply	1,571	5,366	6,346	6,734	8,274	9,013	10,379	10,960	10,562
Indigenous Production	1,516	1,317	1,184	1,094	1,016	883	722	462	278
Import	37	4,007	4,684	6,251	6,615	8,666	10,795	10,390	11,389
Export	-5	-6	-8	-5	-8	-8	-1	-2	-0
Transformation Sector	-803	-1,923	-2,964	-2,993	-4,218	-4,789	-4,747	-5,154	-4,655
Power Generation	-1,489	-1,951	-3,049	-3,308	-4,561	-5,140	-5,237	-5,610	-5,145
Final Energy Consumption	1,799	3,426	3,365	3,724	4,033	4,210	5,622	5,804	5,903
Industry	1,712	3,330	3,269	3,659	3,984	4,170	5,603	5,794	5,897
Transport	3	-	0	0	0	-	-	-	-
Residential & Commercial	75	93	90	60	44	38	19	10	6
Agriculture	-	-	-	-	-	-	-	-	-
Crude Oil									
Primary Energy Supply	17,839	17,785	17,265	17,107	15,890	17,061	18,064	21,002	20,512
Indigenous Production	181	115	116	101	90	127	120	116	156
Import	17,605	17,179	17,460	16,106	16,108	17,299	18,241	20,631	21,105
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-17,839	-17,785	-17,265	-17,107	-15,890	-17,061	-18,064	-21,002	-20,512
Petroleum Refineries	-17,839	-17,785	-17,265	-17,107	-15,890	-17,061	-18,064	-21,002	-20,512
Petroleum Products									
Primary Energy Supply	1,725	-392	-384	-413	2,108	1,226	2,858	2,545	3,918
Import	3,001	1,412	1,754	1,565	3,477	2,655	5,007	4,854	6,467
Export	-292	-904	-1,297	-1,557	-900	-890	-676	-1,092	-335
Transformation Sector	8,944	10,835	11,894	13,047	12,099	14,445	13,408	13,827	12,706
Power Generation	-5,217	-3,204	-2,073	-1,125	-1,605	-1,367	-3,405	-4,773	-4,825
Petroleum Refineries	15,878	15,877	15,917	16,143	15,726	17,742	18,627	20,392	19,184
Final Energy Consumption	10,688	10,451	11,525	12,640	14,210	15,631	16,210	16,355	16,618
Industry	5,049	4,130	4,763	5,595	6,685	7,372	7,148	6,209	5,803
Transport	3,290	3,756	4,081	4,255	4,624	5,214	5,894	6,594	7,210
Residential & Commercial	1,232	1,431	1,476	1,530	1,665	1,746	1,781	1,916	1,836
Agriculture	701	747	792	799	763	805	824	810	895
Natural Gas, Town Gas									
Primary Energy Supply	1,569	1,178	1,185	1,063	968	979	1,116	1,130	1,728
Indigenous Production	1,569	1,178	1,185	1,063	968	979	1,117	1,125	1,045
Import	-	-	-	-	-	-	-	-	762
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-177	-183	-180	-167	-151	-131	-204	-220	-1,848
Power Generation	-	-	-	-	-	-	-	-	-241
Final Energy Consumption	1,339	964	976	872	797	828	891	891	926
Industry	1,078	623	578	449	354	363	392	363	392
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	261	341	398	423	443	465	500	527	534
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	3,664	4,153	4,490	4,778	5,360	5,949	6,558	7,024	7,481
Thermal	2,707	2,099	1,995	1,712	2,405	2,488	3,393	4,018	3,951
Hydro	252	429	381	596	638	612	529	575	704
Nuclear	705	1,626	2,115	2,470	2,317	2,849	2,636	2,432	2,826
Final Energy Consumption	3,171	3,614	3,894	4,069	4,563	5,020	5,599	5,947	6,367
Industry	2,083	2,230	2,420	2,476	2,825	3,048	3,321	3,442	3,575
Transport	26	31	31	31	32	31	31	33	37
Residential & Commercial	999	1,283	1,356	1,465	1,590	1,788	2,092	2,322	2,616
Agriculture	63	71	87	97	116	152	156	150	139

Major Energy Indicators of Chinese Taipei (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
49,770	51,280	55,579	58,216	62,407	65,401	68,785	73,072	75,987	79,272	84,535	89,273	
10,792	10,482	10,443	10,805	10,913	11,485	11,065	11,306	11,560	11,476	10,751	11,608	
39,608	44,142	48,141	51,232	57,083	59,524	64,028	67,723	73,308	78,713	82,174	85,838	
-408	-1,234	-918	-522	-1,350	-1,963	-2,741	-1,613	-2,096	-2,294	-4,435	-6,207	
31,045	32,427	35,472	38,105	38,998	41,559	44,138	44,681	50,872	53,848	59,247	62,167	
16,365	17,204	18,377	19,901	19,946	21,361	23,609	22,288	27,289	29,393	35,031	36,640	
7,650	7,981	9,329	10,063	10,630	11,045	11,292	11,875	12,472	12,455	12,353	12,892	
5,374	5,558	5,996	6,444	6,678	7,312	7,397	8,022	8,359	9,041	9,410	9,740	
971	956	975	993	1,022	1,046	949	799	833	948	975	985	
11,519	13,431	15,139	15,660	16,041	18,269	20,808	22,582	23,691	27,493	29,358	31,266	
237	197	193	168	139	87	58	47	54	49	-	-	
11,363	13,588	15,583	16,460	17,655	19,093	22,281	22,786	25,243	27,911	30,003	32,042	
-	-	-	-	-	-	-	-	-	-	-	-	
-5,205	-6,636	-7,723	-7,999	-8,160	-9,910	-11,228	-14,464	-16,021	-18,608	-20,041	-21,547	
-5,750	-7,188	-8,363	-8,709	-8,820	-10,565	-11,880	-15,341	-16,829	-19,428	-20,964	-22,479	
6,313	6,795	7,416	7,661	7,881	8,359	9,580	8,095	7,659	8,391	8,820	9,179	
6,306	6,794	7,414	7,661	7,881	8,359	9,580	8,095	7,658	8,339	8,753	9,082	
-	-	-	-	-	-	-	-	-	-	-	-	
7	2	2	0	-	0	-	-	1	0	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
22,438	22,265	24,744	23,759	28,885	30,741	31,326	33,103	35,142	36,188	37,779	39,154	
94	62	56	59	53	51	43	46	40	32	35	44	
20,805	22,672	24,487	23,644	28,679	31,217	31,068	32,930	34,588	36,876	37,884	39,039	
-	-	-0	-	-	-	-	-	-	-	-	-	
-22,438	-22,265	-24,744	-23,759	-28,885	-30,741	-31,326	-33,103	-35,142	-36,188	-37,779	-39,154	
-22,438	-22,265	-24,744	-23,759	-28,885	-30,741	-31,326	-33,103	-35,142	-36,188	-37,779	-39,154	
3,645	3,366	3,571	5,473	3,872	2,068	2,104	1,578	1,153	-803	1,318	981	
5,595	5,956	6,001	8,537	7,795	6,154	6,932	7,457	8,814	8,757	8,755	8,519	
-408	-1,234	-918	-522	-1,350	-1,963	-2,741	-1,613	-2,096	-2,294	-4,435	-6,207	
12,993	13,662	15,238	15,037	17,358	19,899	20,563	21,504	27,968	31,324	33,735	35,338	
-5,604	-4,701	-5,459	-5,523	-6,653	-5,715	-5,947	-6,105	-6,337	-6,171	-5,092	-4,241	
19,823	19,559	22,080	22,191	26,226	27,790	28,456	29,272	36,171	39,502	40,858	41,437	
16,655	17,063	18,831	20,586	20,538	22,020	22,722	23,153	29,211	30,197	34,954	36,496	
5,717	5,841	6,197	7,214	6,712	7,460	8,066	7,083	12,100	12,868	18,115	18,765	
7,613	7,944	9,290	10,023	10,590	11,000	11,241	11,807	12,397	12,362	12,257	12,790	
1,821	1,738	1,735	1,816	1,667	1,909	1,768	1,944	2,147	2,255	2,389	2,345	
820	813	814	829	846	855	754	622	649	754	784	785	
2,498	2,679	2,595	3,473	3,642	3,697	4,272	5,301	5,220	5,596	6,044	7,018	
790	685	663	727	754	722	689	704	685	598	680	710	
1,845	1,927	2,070	2,591	2,953	3,061	3,748	4,551	4,663	5,169	5,533	6,238	
-	-	-	-	-	-	-	-	-	-	-	-	
-2,195	-2,146	-2,016	-2,887	-2,910	-2,854	-2,695	-3,640	-3,581	-4,050	-4,571	-5,311	
-617	-638	-530	-1,130	-1,210	-1,300	-1,846	-2,876	-2,846	-3,393	-4,077	-4,782	
1,116	1,251	1,280	1,359	1,534	1,610	1,635	1,627	1,607	1,490	1,473	1,707	
544	639	670	708	841	883	900	887	835	682	644	885	
-	-	-	-	-	-	-	-	-	-	-	-	
572	612	609	652	693	726	735	740	772	808	828	821	
-	-	-	-	-	-	-	-	-	-	-	-	
8,124	8,468	9,212	9,963	10,570	11,185	11,776	14,034	14,575	15,897	16,213	17,099	
4,615	4,839	5,680	6,200	6,769	7,158	7,834	9,955	10,502	11,823	12,372	13,150	
474	718	578	764	764	778	823	912	769	763	789	547	
3,035	2,911	2,954	2,999	3,037	3,250	3,119	3,167	3,304	3,311	3,052	3,401	
6,961	7,318	7,945	8,498	9,045	9,570	10,202	11,806	12,395	13,770	13,999	14,784	
3,799	3,930	4,095	4,318	4,511	4,658	5,062	6,223	6,696	7,504	7,519	7,908	
37	38	39	40	40	44	51	68	75	94	96	103	
2,974	3,206	3,649	3,976	4,318	4,676	4,894	5,338	5,439	5,978	6,193	6,574	
151	144	161	164	176	191	195	178	184	195	192	200	

## Major Economic Indicators of Chinese Taipei

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	17.81	18.73	19.01	19.26	19.46	19.67	19.90	20.11
Gross Domestic Product *2								
Real Term (Billions of 1995 Price and 1995 USD)	85.18	101.56	112.32	117.88	131.60	148.37	160.01	173.18
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	52.15	59.36	62.08	80.43	113.38	125.07	150.51
GDP per Capita *2								
Real Term (1995 Price and 1995 USD)	4,784	5,421	5,908	6,121	6,764	7,542	8,039	8,613
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	2,784	3,122	3,223	4,134	5,763	6,284	7,485
Nominal GDP & its Components (Billions of Current TWD) *1								
Gross Domestic Product	1,491.06	2,100.01	2,343.08	2,473.79	2,855.18	3,237.05	3,523.19	3,938.83
Private Consumption, etc.	767.74	1,085.43	1,189.46	1,261.58	1,366.47	1,542.48	1,781.44	2,103.67
General Government Consumption	237.16	340.29	371.82	399.36	422.88	466.20	529.87	616.42
Fixed Investment	456.45	478.43	496.28	466.34	517.46	622.60	733.69	869.56
Stock Change	47.47	14.43	23.09	5.02	-16.81	44.34	100.24	53.86
Exports of Goods & NF Services	783.27	1,114.30	1,317.48	1,341.25	1,658.74	1,855.41	1,914.49	1,953.26
Imports of Goods & NF Services	801.03	932.87	1,055.05	999.77	1,093.57	1,293.97	1,536.52	1,657.94
Real GDP & its Components (Billions of 1996 TWD) *1								
Gross Domestic Product	2,394.91	2,855.19	3,157.82	3,314.21	3,699.89	4,171.44	4,498.50	4,868.83
Private Consumption, etc.	1,289.56	1,525.47	1,679.71	1,781.38	1,917.77	2,140.57	2,424.20	2,729.37
General Government Consumption	453.44	525.43	564.58	599.69	623.80	677.97	737.38	812.44
Fixed Investment	538.40	551.38	576.97	549.80	606.20	719.23	824.09	945.73
Stock Change	47.04	13.09	21.18	3.96	-17.31	47.00	105.36	56.03
Exports of Goods & NF Services	829.23	1,085.82	1,281.57	1,310.17	1,683.65	2,007.32	2,111.55	2,218.83
Imports of Goods & NF Services	762.75	846.00	966.19	930.79	1,114.21	1,420.65	1,704.08	1,893.55
Sectional Shares of Real GDP (%) *2								
Agriculture, Fishery and Forest	8.4	7.3	6.8	6.6	5.9	5.6	5.2	4.8
Industry	42.8	42.3	43.3	42.7	43.6	43.4	42.3	40.8
Services, etc.	48.8	50.3	50.0	50.7	50.4	51.0	52.5	54.4
Industrial Production Index (2000=100) *2	32.7	37.8	42.3	43.4	49.5	54.8	57.1	59.3
External Trade (Billions of Current USD) *1								
Exports	19.811	25.123	30.456	30.726	39.862	53.679	60.667	66.304
Imports, c.i.f.	19.733	20.287	21.959	20.102	24.181	34.983	49.673	52.265
Balance of Payments (Billions of Current USD) *1								
Trade Balance	0.078	6.329	9.262	11.151	16.910	20.160	13.690	16.115
Current Account	-0.913	4.416	6.979	9.204	16.287	18.003	10.200	11.416
Overall Balance	-0.319	3.341	3.976	6.525	23.322	28.091	-1.393	-0.780
Foreign Exchange Rate (TWD/USD) *1	36.0100	40.2700	39.4700	39.8500	35.5000	28.5500	28.1700	26.1700
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	73.6	74.2	74.6	77.2	77.6	78.3	80.9
Wholesale Price Index (2001=100) *2	102.4	108.7	109.2	106.4	102.8	99.5	97.9	97.6
Consumer Price Index (2001=100) *2	57.4	69.7	69.7	69.6	70.0	70.4	71.3	74.5
Growth Rate (%) *2								
Real GDP	7.30	8.45	10.60	4.95	11.64	12.74	7.84	8.23
Population	1.87	1.49	1.49	1.29	1.02	1.12	1.17	1.02
Price								
Wholesale Price Index	21.5	-1.2	0.5	-2.6	-3.3	-3.2	-1.6	-0.4
Consumer Price Index	19.0	1.4	0.0	-0.2	0.7	0.5	1.3	4.4

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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
20.35	20.56	20.75	20.94	21.13	21.30	21.47	21.68	21.87	22.03	22.22	22.34	22.45
182.52	196.31	211.01	225.81	241.86	257.40	273.10	291.34	304.65	321.18	340.00	332.57	344.36
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.
158.89	186.84	210.17	222.28	246.33	257.40	279.30	255.19	277.47	295.86	292.92	271.62	280.13
8,968	9,550	10,168	10,782	11,448	12,082	12,720	13,436	13,930	14,576	15,304	14,887	15,337
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.
7,807	9,089	10,128	10,613	11,660	12,082	13,008	11,769	12,687	13,427	13,185	12,158	12,476
4,307.04	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	9,663.40	9,506.62	9,734.35
2,358.68	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	6,144.65
739.61	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	1,222.79
965.58	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	1,726.63
28.54	53.82	73.83	60.02	51.84	26.85	54.01	121.09	122.57	46.63	-55.00	-99.60	-51.28
2,013.95	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	5,233.49
1,799.32	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	4,541.93
5,131.51	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	9,681.37
2,942.63	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	5,905.33
914.31	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	1,116.22
1,017.52	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	1,774.58
30.86	54.96	75.89	63.02	53.07	25.10	54.01	122.77	126.47	50.62	-54.99	-103.88	-54.16
2,232.94	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	5,409.97
2,006.75	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	4,470.56
4.7	4.4	4.0	3.9	3.5	3.4	3.2	2.9	2.6	2.6	2.5	2.5	0.2
39.0	38.8	38.2	37.4	37.1	36.6	35.7	35.5	34.9	34.6	34.6	33.3	34.6
56.3	56.8	57.8	58.7	59.4	60.0	61.1	61.5	62.5	62.8	63.0	64.3	65.2
59.1	63.5	66.3	68.9	73.4	76.9	78.4	84.2	86.5	93.1	100.0	92.7	98.6
67.214	76.178	81.470	85.091	93.049	111.659	115.942	122.081	110.582	121.591	148.321	122.866	130.597
54.716	62.861	72.007	77.061	85.349	103.550	102.370	114.425	104.665	110.690	140.011	107.237	112.530
14.807	15.683	12.718	11.450	11.849	13.235	17.543	13.882	10.316	15.042	14.019	20.181	24.698
10.923	12.468	8.550	7.042	6.498	5.474	10.923	7.051	3.437	8.834	8.905	17.921	25.730
-3.918	9.659	1.367	1.541	4.622	-3.931	1.102	-0.728	4.827	18.593	2.477	17.353	33.664
27.1075	25.7475	25.4025	26.6260	26.2400	27.2650	27.4910	32.6380	32.2160	31.4000	32.9900	35.0000	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.
83.9	87.2	90.0	93.2	95.1	97.0	100.0	101.7	104.4	102.9	101.1	101.7	100.5
97.0	97.1	93.6	95.9	98.0	105.2	104.2	103.7	104.3	99.6	101.4	100.0	100.1
77.5	80.3	83.9	86.4	89.9	93.2	96.1	97.0	98.6	98.8	100.0	100.0	99.8
5.39	7.55	7.49	7.01	7.11	6.42	6.10	6.68	4.57	10.24	11.60	3.55	1.28
1.22	1.00	0.95	0.93	0.87	0.84	0.78	0.99	0.87	1.62	1.58	1.39	1.07
-0.6	0.2	-3.7	2.5	2.2	7.4	-1.0	-0.5	0.6	-4.0	-2.8	0.5	-1.3
4.1	3.6	4.5	2.9	4.1	3.7	3.1	0.9	1.7	1.9	1.4	1.2	-0.2



## Original Table (Energy Demand and Supply) of Chinese Taipei in 2002

Year:2002

Chinese Taipei	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
CRUDE OIL AND NGL/CONDENSATE	51.10	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	43.69	*10 <sup>10</sup> KCAL
CRUDE OIL	51.10	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	43.69	*10 <sup>10</sup> KCAL
NATURAL GAS AND LNG	886.83	*10 <sup>6</sup> CM	0.8010	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	710.35	*10 <sup>10</sup> KCAL
NATURAL GAS	886.83	*10 <sup>6</sup> CM	0.8010	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	710.35	*10 <sup>10</sup> KCAL
HYDRO POWER	6,359.70	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	546.93	*10 <sup>10</sup> KCAL
NUCLEAR POWER	39,552.92	GWH	0.2606	*10 <sup>10</sup> KCAL / GWH	10,307.49	*10 <sup>10</sup> KCAL
TOTAL PRODUCTION					11,608.46	*10 <sup>10</sup> KCAL
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						*10 <sup>10</sup> KCAL
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						*10 <sup>10</sup> KCAL
<b>STOCK CHANGE</b>						
COAL	-819.16	*10 <sup>3</sup> MTCE	0.8233	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	-674.39	*10 <sup>10</sup> KCAL
HARD COAL	-819.16	*10 <sup>3</sup> MTCE	0.8233	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	-674.39	*10 <sup>10</sup> KCAL
STEAM COAL	2,547.57	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	1,500.52	*10 <sup>10</sup> KCAL
COKING COAL	-3,366.73	*10 <sup>3</sup> MT	0.6460	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	-2,174.91	*10 <sup>10</sup> KCAL
COKE	-153.52	*10 <sup>3</sup> MT	0.6650	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	-102.09	*10 <sup>10</sup> KCAL
CRUDE OIL AND NGL/CONDENSATE	83.95	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	71.77	*10 <sup>10</sup> KCAL
CRUDE OIL	83.95	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	71.77	*10 <sup>10</sup> KCAL
LPG	15.88	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	17.87	*10 <sup>10</sup> KCAL
NAPHTHA	501.79	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	371.82	*10 <sup>10</sup> KCAL
MOGAS	218.61	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	161.99	*10 <sup>10</sup> KCAL
JET FUEL	341.18	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	259.30	*10 <sup>10</sup> KCAL
ATF/AVGAS	0.01	*10 <sup>3</sup> KL	0.7125	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.01	*10 <sup>10</sup> KCAL
KEROSENE	77.43	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	62.53	*10 <sup>10</sup> KCAL
DIESEL OIL	-185.70	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	-155.24	*10 <sup>10</sup> KCAL
FUEL OIL	473.28	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	413.65	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	-189.68	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	-162.18	*10 <sup>10</sup> KCAL
NATURAL GAS AND LNG	78.10	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	69.58	*10 <sup>10</sup> KCAL
NATURAL GAS	43.72	*10 <sup>6</sup> CM	0.8010	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	35.02	*10 <sup>10</sup> KCAL
LNG	38.79	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	34.56	*10 <sup>10</sup> KCAL
TOTAL STOCK CHANGE					334.62	*10 <sup>10</sup> KCAL
<b>IMPORTS</b>						
COAL	51,952.58	*10 <sup>3</sup> MTCE	0.6143	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	31,915.57	*10 <sup>10</sup> KCAL
HARD COAL	51,952.58	*10 <sup>3</sup> MTCE	0.6143	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	31,915.57	*10 <sup>10</sup> KCAL
STEAM COAL	43,310.46	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	26,332.76	*10 <sup>10</sup> KCAL
COKING COAL	8,642.12	*10 <sup>3</sup> MT	0.6460	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	5,582.81	*10 <sup>10</sup> KCAL
COKE	190.44	*10 <sup>3</sup> MT	0.6650	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	126.64	*10 <sup>10</sup> KCAL
CRUDE OIL AND NGL/CONDENSATE	45,659.27	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	39,038.68	*10 <sup>10</sup> KCAL
CRUDE OIL	45,659.27	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	39,038.68	*10 <sup>10</sup> KCAL
LPG	864.89	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	973.60	*10 <sup>10</sup> KCAL
NAPHTHA	6,779.28	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	5,023.44	*10 <sup>10</sup> KCAL
MOGAS	335.17	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	248.36	*10 <sup>10</sup> KCAL
DIESEL OIL	33.09	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	27.66	*10 <sup>10</sup> KCAL
FUEL OIL	1,461.57	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,277.41	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	1,132.79	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	968.54	*10 <sup>10</sup> KCAL
NATURAL GAS AND LNG	7,000.70	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	6,237.63	*10 <sup>10</sup> KCAL
LNG	7,000.70	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	6,237.63	*10 <sup>10</sup> KCAL
TOTAL IMPORTS					85,837.54	*10 <sup>10</sup> KCAL
<b>EXPORTS</b>						
LPG	363.28	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	408.95	*10 <sup>10</sup> KCAL
NAPHTHA	24.65	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	18.26	*10 <sup>10</sup> KCAL
MOGAS	1,277.76	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	946.82	*10 <sup>10</sup> KCAL
JET FUEL	964.27	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	732.85	*10 <sup>10</sup> KCAL
KEROSENE	195.13	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	157.57	*10 <sup>10</sup> KCAL
DIESEL OIL	3,094.25	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2,586.79	*10 <sup>10</sup> KCAL
FUEL OIL	144.03	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	125.88	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	1,438.82	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,230.19	*10 <sup>10</sup> KCAL
TOTAL EXPORTS					6,207.31	*10 <sup>10</sup> KCAL
<b>INTERNATIONAL MARINE BUNKERS</b>						
DIESEL OIL	2,690.00	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2,299.99	*10 <sup>10</sup> KCAL
FUEL OIL	199.39	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	166.69	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	2,438.21	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2,131.00	*10 <sup>10</sup> KCAL
TOTAL PRIMARY ENERGY SUPPLY	103,588.61	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	89,273.32	*10 <sup>10</sup> KCAL
<b>TRANSFORMATION SECTOR(INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	5,925.79	*10 <sup>3</sup> MTCE	0.6409	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	3,797.62	*10 <sup>10</sup> KCAL
HARD COAL	5,925.79	*10 <sup>3</sup> MTCE	0.6409	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	3,797.62	*10 <sup>10</sup> KCAL
STEAM COAL	801.09	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	487.06	*10 <sup>10</sup> KCAL
COKING COAL	5,124.70	*10 <sup>3</sup> MT	0.6460	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	3,310.56	*10 <sup>10</sup> KCAL
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	45,794.32	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	39,154.14	*10 <sup>10</sup> KCAL
CRUDE OIL	45,794.32	*10 <sup>3</sup> KL	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	39,154.14	*10 <sup>10</sup> KCAL
<b>GAS PROCESSING</b>						
LNG	2,498.21	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	2,225.90	*10 <sup>10</sup> KCAL
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	29,208.06	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	17,203.54	*10 <sup>10</sup> KCAL
HARD COAL	29,208.06	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	17,203.54	*10 <sup>10</sup> KCAL
STEAM COAL	29,208.06	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	17,203.54	*10 <sup>10</sup> KCAL

Original Table (Energy Demand and Supply) of Chinese Taipei in 2002 (Continued)

Year:2002

Chinese Taipei	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
DIESEL OIL	161.55	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	135.06	*10 <sup>10</sup> KCAL
FUEL OIL	3,605.26	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	3,151.00	*10 <sup>10</sup> KCAL
NATURAL GAS AND LNG	5,194.65	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	4,628.43	*10 <sup>10</sup> KCAL
LNG	5,194.65	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	4,628.43	*10 <sup>10</sup> KCAL
HYDRO POWER	6,359.70	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	546.93	*10 <sup>10</sup> KCAL
NUCLEAR POWER	39,552.92	GWH	0.2606	*10 <sup>10</sup> KCAL / GWH	10,307.49	*10 <sup>10</sup> KCAL
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
COAL	7,961.62	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	4,840.67	*10 <sup>10</sup> KCAL
STEAM COAL	7,961.62	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	4,840.67	*10 <sup>10</sup> KCAL
COKE OVEN GAS	265.65	*10 <sup>6</sup> CM	0.3883	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	103.15	*10 <sup>10</sup> KCAL
BLAST FURNACE GAS	5,162.74	*10 <sup>6</sup> CM	0.0642	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	331.45	*10 <sup>10</sup> KCAL
REFINERY GAS	33.77	*10 <sup>6</sup> CM	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	28.87	*10 <sup>10</sup> KCAL
FUEL OIL	1,059.51	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	926.01	*10 <sup>10</sup> KCAL
NATURAL GAS AND LNG	171.92	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	153.18	*10 <sup>10</sup> KCAL
NATURAL GAS	7.58	*10 <sup>6</sup> CM	0.8010	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	6.07	*10 <sup>10</sup> KCAL
LNG	165.11	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	147.11	*10 <sup>10</sup> KCAL
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	4,465.03	*10 <sup>3</sup> MT	0.6650	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	2,969.25	*10 <sup>10</sup> KCAL
COKE OVEN GAS	2,079.30	*10 <sup>6</sup> CM	0.3883	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	807.39	*10 <sup>10</sup> KCAL
BLAST FURNACE GAS	14,880.35	*10 <sup>6</sup> CM	0.0642	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	955.32	*10 <sup>10</sup> KCAL
<b>REFINING</b>						
REFINERY GAS	1,301.37	*10 <sup>6</sup> CM	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	1,112.67	*10 <sup>10</sup> KCAL
LPG	1,159.62	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	1,305.38	*10 <sup>10</sup> KCAL
NAPHTHA	8,772.17	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	6,500.18	*10 <sup>10</sup> KCAL
MOGAS	10,456.67	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	7,748.39	*10 <sup>10</sup> KCAL
JET FUEL	3,355.68	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2,550.32	*10 <sup>10</sup> KCAL
ATF/AVGAS	0.08	*10 <sup>3</sup> KL	0.7125	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.06	*10 <sup>10</sup> KCAL
KEROSENE	142.38	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	114.97	*10 <sup>10</sup> KCAL
DIESEL OIL	9,570.48	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	8,000.92	*10 <sup>10</sup> KCAL
FUEL OIL	12,082.45	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	10,560.06	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	4,145.42	*10 <sup>3</sup> KLOE	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KLOE	3,544.33	*10 <sup>10</sup> KCAL
<b>GAS RECOVERING</b>						
TOWN GAS	2,457.50	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	2,189.64	*10 <sup>10</sup> KCAL
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	118,248.83	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	10,169.40	*10 <sup>10</sup> KCAL
HYDRO POWER	6,359.70	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	546.93	*10 <sup>10</sup> KCAL
NUCLEAR POWER	39,552.92	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	3,401.55	*10 <sup>10</sup> KCAL
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	34,658.94	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	2,980.67	*10 <sup>10</sup> KCAL
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
COKE OVEN GAS	0.69	*10 <sup>6</sup> CM	0.3883	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	0.27	*10 <sup>10</sup> KCAL
BLAST FURNACE GAS	30.55	*10 <sup>6</sup> CM	0.0642	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	1.96	*10 <sup>10</sup> KCAL
REFINERY GAS	1,267.61	*10 <sup>6</sup> CM	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	1,083.80	*10 <sup>10</sup> KCAL
LPG	11.01	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	12.39	*10 <sup>10</sup> KCAL
MOGAS	10.18	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	7.54	*10 <sup>10</sup> KCAL
KEROSENE	0.00	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.00	*10 <sup>10</sup> KCAL
DIESEL OIL	97.97	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	81.90	*10 <sup>10</sup> KCAL
FUEL OIL	770.20	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	673.16	*10 <sup>10</sup> KCAL
TOWN GAS	553.40	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	493.08	*10 <sup>10</sup> KCAL
ELECTRICITY	27,019.55	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	2,323.68	*10 <sup>10</sup> KCAL
TOTAL LOSSES AND OWN USE					4,677.79	*10 <sup>10</sup> KCAL
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	8,236.04	*10 <sup>3</sup> MTCE	0.5900	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	4,859.62	*10 <sup>10</sup> KCAL
HARD COAL	8,236.04	*10 <sup>3</sup> MTCE	0.5900	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	4,859.62	*10 <sup>10</sup> KCAL
STEAM COAL	8,085.35	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	4,762.27	*10 <sup>10</sup> KCAL
COKING COAL	150.69	*10 <sup>3</sup> MT	0.6460	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	97.34	*10 <sup>10</sup> KCAL
COKE	4,501.96	*10 <sup>3</sup> MT	0.6650	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	2,993.80	*10 <sup>10</sup> KCAL
COKE OVEN GAS	1,812.96	*10 <sup>6</sup> CM	0.3883	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	703.97	*10 <sup>10</sup> KCAL
BLAST FURNACE GAS	9,687.07	*10 <sup>6</sup> CM	0.0642	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	621.91	*10 <sup>10</sup> KCAL
LPG	1,666.82	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	1,876.33	*10 <sup>10</sup> KCAL
NAPHTHA	1,588.74	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,177.25	*10 <sup>10</sup> KCAL
MOGAS	9,722.51	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	7,204.38	*10 <sup>10</sup> KCAL
JET FUEL	2,732.59	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2,076.77	*10 <sup>10</sup> KCAL
ATF/AVGAS	0.09	*10 <sup>3</sup> KL	0.7125	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.07	*10 <sup>10</sup> KCAL
KEROSENE	24.68	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	19.93	*10 <sup>10</sup> KCAL
DIESEL OIL	5,864.71	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	4,902.90	*10 <sup>10</sup> KCAL
FUEL OIL	6,000.09	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	5,244.08	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	3,853.58	*10 <sup>3</sup> KLOE	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KLOE	3,294.81	*10 <sup>10</sup> KCAL
TOWN GAS	1,915.37	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	1,706.59	*10 <sup>10</sup> KCAL
ELECTRICITY	171,911.61	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	14,784.40	*10 <sup>10</sup> KCAL
TOTAL	94,135.42	*10 <sup>3</sup> KLOE			51,466.81	*10 <sup>10</sup> KCAL
<b>AGRICULTURE</b>						
LPG	0.02	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	0.02	*10 <sup>10</sup> KCAL
MOGAS	0.18	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.13	*10 <sup>10</sup> KCAL
DIESEL OIL	909.52	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	760.36	*10 <sup>10</sup> KCAL
FUEL OIL	28.28	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	24.72	*10 <sup>10</sup> KCAL
ELECTRICITY	2,326.15	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	200.05	*10 <sup>10</sup> KCAL
TOTAL	1,509.97	*10 <sup>3</sup> KLOE			985.28	*10 <sup>10</sup> KCAL
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	1,193.41	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	1,343.42	*10 <sup>10</sup> KCAL

Original Table (Energy Demand and Supply) of Chinese Taipei in 2002 (Continued)

Year:2002

Chinese Taipei	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
MOGAS	63.70	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	47.20	*10 <sup>10</sup> KCAL
JET FUEL	225.35	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	171.27	*10 <sup>10</sup> KCAL
KEROSENE	15.22	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	12.29	*10 <sup>10</sup> KCAL
DIESEL OIL	552.48	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	461.87	*10 <sup>10</sup> KCAL
FUEL OIL	353.25	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	308.74	*10 <sup>10</sup> KCAL
TOWN GAS	921.93	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	821.44	*10 <sup>10</sup> KCAL
ELECTRICITY	76,443.20	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	6,574.11	*10 <sup>10</sup> KCAL
TOTAL	22,950.95	*10 <sup>3</sup> KLOE			9,740.35	*10 <sup>10</sup> KCAL
<b>OTHERS</b>						
TOTAL						*10 <sup>10</sup> KCAL
<b>INDUSTRY</b>						
COAL	8,085.35	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	4,762.27	*10 <sup>10</sup> KCAL
HARD COAL	8,085.35	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	4,762.27	*10 <sup>10</sup> KCAL
STEAM COAL	8,085.35	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	4,762.27	*10 <sup>10</sup> KCAL
COKE	4,501.96	*10 <sup>3</sup> MT	0.6650	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	2,993.80	*10 <sup>10</sup> KCAL
COKE OVEN GAS	1,812.96	*10 <sup>6</sup> CM	0.3883	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	703.97	*10 <sup>10</sup> KCAL
BLAST FURNACE GAS	9,687.07	*10 <sup>6</sup> CM	0.0642	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	621.91	*10 <sup>10</sup> KCAL
LPG	459.96	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	517.78	*10 <sup>10</sup> KCAL
NAPHTHA	16,028.59	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	11,877.19	*10 <sup>10</sup> KCAL
MOGAS	6.50	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	4.82	*10 <sup>10</sup> KCAL
KEROSENE	9.39	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	7.58	*10 <sup>10</sup> KCAL
DIESEL OIL	183.31	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	153.25	*10 <sup>10</sup> KCAL
FUEL OIL	5,401.97	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	4,721.32	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	1,734.99	*10 <sup>3</sup> KLOE	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KLOE	1,483.42	*10 <sup>10</sup> KCAL
TOWN GAS	993.44	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	885.15	*10 <sup>10</sup> KCAL
ELECTRICITY	91,948.95	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	7,907.61	*10 <sup>10</sup> KCAL
TOTAL	52,385.71	*10 <sup>3</sup> KLOE			36,640.07	*10 <sup>10</sup> KCAL
<b>TRANSPORT</b>						
LPG	13.43	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	15.12	*10 <sup>10</sup> KCAL
MOGAS	9,652.14	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	7,152.23	*10 <sup>10</sup> KCAL
JET FUEL	2,507.23	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,905.50	*10 <sup>10</sup> KCAL
ATF/AVGAS	0.09	*10 <sup>3</sup> KL	0.7125	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.07	*10 <sup>10</sup> KCAL
KEROSENE	0.06	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.05	*10 <sup>10</sup> KCAL
DIESEL OIL	4,219.40	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	3,527.42	*10 <sup>10</sup> KCAL
FUEL OIL	216.59	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	189.30	*10 <sup>10</sup> KCAL
ELECTRICITY	1,193.31	GWH	0.0860	*10 <sup>10</sup> KCAL / GWH	102.62	*10 <sup>10</sup> KCAL
TOTAL	15,262.92	*10 <sup>3</sup> KLOE			12,892.31	*10 <sup>10</sup> KCAL
<b>NON-ENERGY</b>						
COAL	150.69	*10 <sup>3</sup> MTCE	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	91.62	*10 <sup>10</sup> KCAL
HARD COAL	150.69	*10 <sup>3</sup> MTCE	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	91.62	*10 <sup>10</sup> KCAL
COKING COAL	150.69	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	91.62	*10 <sup>10</sup> KCAL
OTHER PETROLEUM PRODUCTS	21,062.69	*10 <sup>3</sup> KLOE	0.0860	*10 <sup>10</sup> KCAL / GWH	1,811.39	*10 <sup>10</sup> KCAL
TOTAL NON-ENERGY USE	2,025.87	*10 <sup>3</sup> KLOE			1,903.01	*10 <sup>10</sup> KCAL

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 (Energy Demand and Supply) of Chinese Taipei in 2002 (Continued)

**ELECTRICITY GENERATING CAPACITY**At the time of 2002  
unit: MW

THERMAL POWER	22,261	
COAL	11,200	
OIL	5,079	
GAS	5,982	
HYDRO POWER	4,511	
NUCLEAR POWER	5,144	
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION	6,171	
COAL	N.A.	
OIL	N.A.	
GAS	N.A.	
OTHERS (BIOMASS, MUNICIPAL WASTE)	N.A.	

**REFINING CAPACITY**

At the time of 2002

	Unit	
OPERATING RATE	%	65
CRUDE DISTILLATION CAPACITY	1000BD	1220
VACUUM DISTILLATION CAPACITY	1000BD	191.5
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

**NON-COMMERCIAL ENERGY TABLE**At the time of 2002  
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					
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.

## Original Table (Disaggregated Final Energy Demand) of Chinese Taipei in 2002

Chinese Taipei	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
<b>I INDUSTRIAL SECTOR</b>								
<b>1.1 IRON AND STEEL (*1)</b>								
COAL	1,253.46	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	762.10	*10 <sup>10</sup> KCAL		
HARD COAL	1,253.46	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	762.10	*10 <sup>10</sup> KCAL		
STEAM COAL	1,253.46	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	762.10	*10 <sup>10</sup> KCAL		
COKE	4,501.96	*10 <sup>3</sup> MT	0.6650	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	2,993.80	*10 <sup>10</sup> KCAL		
COKE OVEN GAS	1,812.96	*10 <sup>6</sup> CM	0.3883	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	703.97	*10 <sup>10</sup> KCAL		
BLAST FURNACE GAS	9,687.07	*10 <sup>6</sup> CM	0.0642	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	621.91	*10 <sup>10</sup> KCAL		
LPG	34.90	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	39.28	*10 <sup>10</sup> KCAL		
MOGAS	0.16	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.12	*10 <sup>10</sup> KCAL		
KEROSENE	6.01	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	4.85	*10 <sup>10</sup> KCAL		
DIESEL OIL	8.16	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	6.82	*10 <sup>10</sup> KCAL		
FUEL OIL	467.56	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	408.65	*10 <sup>10</sup> KCAL		
TOWN GAS	201.99	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	179.97	*10 <sup>10</sup> KCAL		
ELECTRICITY	12,117.33	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	1,042.09	*10 <sup>10</sup> KCAL		
PUBLIC UTILITIES	8,618.83	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	741.22	*10 <sup>10</sup> KCAL		
AUTOPRODUCER	3,498.50	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	300.87	*10 <sup>10</sup> KCAL		
TOTAL	10,018.37	*10 <sup>3</sup> KLOE			6,763.56	*10 <sup>10</sup> KCAL		
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>								
COAL	3,520.43	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	2,073.54	*10 <sup>10</sup> KCAL		
HARD COAL	3,520.43	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	2,073.54	*10 <sup>10</sup> KCAL		
STEAM COAL	3,520.43	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	2,073.54	*10 <sup>10</sup> KCAL		
LPG	214.81	*10 <sup>3</sup> MT	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	173.46	*10 <sup>10</sup> KCAL		
NAPHTHA	1,563.22	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,306.85	*10 <sup>10</sup> KCAL		
MOGAS	0.01	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.01	*10 <sup>10</sup> KCAL		
KEROSENE	0.09	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.07	*10 <sup>10</sup> KCAL		
DIESEL OIL	19.90	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	16.64	*10 <sup>10</sup> KCAL		
FUEL OIL	1,693.89	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,480.46	*10 <sup>10</sup> KCAL		
OTHER PETROLEUM PRODUCTS	8,801.68	*10 <sup>3</sup> KLOE	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KLOE	7,525.43	*10 <sup>10</sup> KCAL		
NATURAL GAS/LNG	152.02	*10 <sup>6</sup> CM	0.8010	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	131.14	*10 <sup>10</sup> KCAL		
NATURAL GAS	47.82	*10 <sup>6</sup> CM	0.8010	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	38.30	*10 <sup>10</sup> KCAL		
LNG	104.20	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	92.84	*10 <sup>10</sup> KCAL		
TOWN GAS	147.19	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	131.14	*10 <sup>10</sup> KCAL		
ELECTRICITY	30,519.87	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	2,624.71	*10 <sup>10</sup> KCAL		
PUBLIC UTILITIES	13,787.57	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	1,185.73	*10 <sup>10</sup> KCAL		
AUTOPRODUCER	16,732.30	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	1,438.98	*10 <sup>10</sup> KCAL		
TOTAL	22,582.11	*10 <sup>3</sup> KLOE			15,463.45	*10 <sup>10</sup> KCAL		
<b>1.3 NON-FERROUS METALS (*3)</b>								
LPG	15.89	*10 <sup>3</sup> MT	1.1257	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	17.89	*10 <sup>10</sup> KCAL		
NAPHTHA	25.51	*10 <sup>3</sup> KL	0.7410	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	18.91	*10 <sup>10</sup> KCAL		
KEROSENE	2.30	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1.86	*10 <sup>10</sup> KCAL		
DIESEL OIL	1.71	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1.43	*10 <sup>10</sup> KCAL		
FUEL OIL	67.93	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	59.37	*10 <sup>10</sup> KCAL		
ELECTRICITY	1,058.37	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	91.02	*10 <sup>10</sup> KCAL		
PUBLIC UTILITIES	1,058.37	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	91.02	*10 <sup>10</sup> KCAL		
TOTAL	390.96	*10 <sup>3</sup> KLOE			190.47	*10 <sup>10</sup> KCAL		
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>								
COAL	2,818.00	*10 <sup>3</sup> MT	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	1,659.80	*10 <sup>10</sup> KCAL		
HARD COAL	2,818.00	*10 <sup>3</sup> MT	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	1,659.80	*10 <sup>10</sup> KCAL		
STEAM COAL	2,818.00	*10 <sup>3</sup> MT	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	1,659.80	*10 <sup>10</sup> KCAL		
LPG	16.16	*10 <sup>3</sup> MT	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	13.05	*10 <sup>10</sup> KCAL		
MOGAS	0.00	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.00	*10 <sup>10</sup> KCAL		
KEROSENE	0.02	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.01	*10 <sup>10</sup> KCAL		
DIESEL OIL	20.95	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	17.51	*10 <sup>10</sup> KCAL		
FUEL OIL	393.74	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	344.12	*10 <sup>10</sup> KCAL		
OTHER PETROLEUM PRODUCTS	13.30	*10 <sup>3</sup> KLOE	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KLOE	11.37	*10 <sup>10</sup> KCAL		
TOWN GAS	197.30	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	175.79	*10 <sup>10</sup> KCAL		
ELECTRICITY	4,113.22	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	353.74	*10 <sup>10</sup> KCAL		
PUBLIC UTILITIES	3,842.70	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	330.47	*10 <sup>10</sup> KCAL		
AUTOPRODUCER	270.52	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	23.26	*10 <sup>10</sup> KCAL		
TOTAL	3,663.22	*10 <sup>3</sup> KLOE			2,575.40	*10 <sup>10</sup> KCAL		
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>								
COAL	367.95	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	216.72	*10 <sup>10</sup> KCAL		
HARD COAL	367.95	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	216.72	*10 <sup>10</sup> KCAL		
STEAM COAL	367.95	*10 <sup>3</sup> MTCE	0.5890	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MTCE	216.72	*10 <sup>10</sup> KCAL		
LPG	5.46	*10 <sup>3</sup> MT	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	4.41	*10 <sup>10</sup> KCAL		
MOGAS	0.11	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.09	*10 <sup>10</sup> KCAL		
KEROSENE	0.04	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.03	*10 <sup>10</sup> KCAL		
DIESEL OIL	1.37	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1.15	*10 <sup>10</sup> KCAL		
FUEL OIL	265.40	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	231.96	*10 <sup>10</sup> KCAL		

Original Table (Disaggregated Final Energy Demand) of Chinese Taipei in 2002 (Continued)

Chinese Taipei	2002		Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit		
	TOWN GAS	5.73	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	5.11	*10 <sup>10</sup> KCAL	
PUBLIC UTILITIES	2,056.54	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	176.86	*10 <sup>10</sup> KCAL		
AUTOPRODUCER	1,629.83	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	140.17	*10 <sup>10</sup> KCAL		
TOTAL	1,473,276.53	*10 <sup>3</sup> KLOE			459.47	*10 <sup>10</sup> KCAL		
<b>1.6 OTHER INDUSTRIES (*6)</b>								
COAL	82.43	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	50.12	*10 <sup>10</sup> KCAL		
HARD COAL	82.43	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	50.12	*10 <sup>10</sup> KCAL		
STEAM COAL	82.43	*10 <sup>3</sup> MT	0.6080	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	50.12	*10 <sup>10</sup> KCAL		
LPG	172.69	*10 <sup>3</sup> MT	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	139.45	*10 <sup>10</sup> KCAL		
MOGAS	5.09	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	4.45	*10 <sup>10</sup> KCAL		
KEROSENE	0.94	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.76	*10 <sup>10</sup> KCAL		
DIESEL OIL	68.55	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	57.31	*10 <sup>10</sup> KCAL		
FUEL OIL	2,429.16	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2,123.08	*10 <sup>10</sup> KCAL		
TOWN GAS	436.62	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	389.03	*10 <sup>10</sup> KCAL		
ELECTRICITY	39,879.92	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	3,429.67	*10 <sup>10</sup> KCAL		
PUBLIC UTILITIES	39,310.46	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	3,380.70	*10 <sup>10</sup> KCAL		
AUTOPRODUCER	569.47	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	48.97	*10 <sup>10</sup> KCAL		
TOTAL	13,470.07	*10 <sup>3</sup> KLOE			6,193.86	*10 <sup>10</sup> KCAL		
<b>2 TRANSPORTATION SECTOR</b>								
<b>2.1 AIR (*7)</b>								
JET FUEL	2,507.23	*10 <sup>3</sup> KL	0.7600	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1,905.50	*10 <sup>10</sup> KCAL		
DIESEL OIL	2.28	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1.90	*10 <sup>10</sup> KCAL		
FUEL OIL	1.03	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.90	*10 <sup>10</sup> KCAL		
ELECTRICITY	321.15	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	27.62	*10 <sup>10</sup> KCAL		
TOTAL	2,313.71	*10 <sup>3</sup> KLOE			1,935.92	*10 <sup>10</sup> KCAL		
<b>2.2 ROAD</b>								
MOGAS	9,652.14	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	8,435.97	*10 <sup>10</sup> KCAL		
DIESEL OIL	4,056.67	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	3,391.38	*10 <sup>10</sup> KCAL		
FUEL OIL	2.97	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	2.60	*10 <sup>10</sup> KCAL		
ELECTRICITY	34.12	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	2.93	*10 <sup>10</sup> KCAL		
TOTAL	12,361.83	*10 <sup>3</sup> KLOE			11,832.88	*10 <sup>10</sup> KCAL		
<b>2.3 RAIL</b>								
KEROSENE	0.06	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	0.05	*10 <sup>10</sup> KCAL		
FUEL OIL	1.89	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	1.65	*10 <sup>10</sup> KCAL		
ELECTRICITY	818.77	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	70.41	*10 <sup>10</sup> KCAL		
TOTAL	254.16	*10 <sup>3</sup> KLOE			72.11	*10 <sup>10</sup> KCAL		
<b>2.4 INTERNAL NAVIGATION</b>								
DIESEL OIL	115.51	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	96.56	*10 <sup>10</sup> KCAL		
FUEL OIL	210.70	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	184.15	*10 <sup>10</sup> KCAL		
ELECTRICITY	19.27	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	1.66	*10 <sup>10</sup> KCAL		
TOTAL	333.22	*10 <sup>3</sup> KLOE			282.37	*10 <sup>10</sup> KCAL		
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>								
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>								
KEROSENE	15.22	*10 <sup>3</sup> KL	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	12.29	*10 <sup>10</sup> KCAL		
DIESEL OIL	552.48	*10 <sup>3</sup> KL	0.8360	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	461.87	*10 <sup>10</sup> KCAL		
FUEL OIL	353.25	*10 <sup>3</sup> KL	0.8740	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KL	308.74	*10 <sup>10</sup> KCAL		
OTHER PETROLEUM PRODUCTS	289.57	*10 <sup>3</sup> KLOE	0.8550	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> KLOE	247.58	*10 <sup>10</sup> KCAL		
TOWN GAS	209.06	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	186.27	*10 <sup>10</sup> KCAL		
ELECTRICITY	38,175.16	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	3,283.06	*10 <sup>10</sup> KCAL		
TOTAL	11,189.48	*10 <sup>3</sup> KLOE			4,487.53	*10 <sup>10</sup> KCAL		
<b>3.2 RESIDENTIAL</b>								
LPG	1,134.52	*10 <sup>3</sup> MT	0.8075	*10 <sup>10</sup> KCAL / *10 <sup>3</sup> MT	916.12	*10 <sup>10</sup> KCAL		
TOWN GAS	712.88	*10 <sup>6</sup> CM	0.8910	*10 <sup>10</sup> KCAL / *10 <sup>6</sup> CM	635.17	*10 <sup>10</sup> KCAL		
ELECTRICITY	37,190.82	GWh	0.0860	*10 <sup>10</sup> KCAL / GWh	3,198.41	*10 <sup>10</sup> KCAL		
TOTAL	11,761.47	*10 <sup>3</sup> KLOE			3,833.58	*10 <sup>10</sup> KCAL		

**Original Table (Energy Price) of Chinese Taipei in 2002**  
Year: 2002

Chinese Taipei	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL			
HARD COAL			
STEAM COAL	USD/MT	30.19	CIF
COKING COAL	USD/MT	50.21	CIF
SUBBITUMINOUS COAL			
CRUDE OIL	USD/bbl	23.63	FOB
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUELOIL			
A HEAVY OIL			
C FUEL OIL			
NATURAL GAS (LNG)	USD/MT	258.43	CIF
<b>WHOLESALE PRICES</b>			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS	NTD/CM	8.49	
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	NTD/L	17.72	
JET FUEL			
KEROSENE	NTD/L	15.50	
DIESEL OIL	NTD/L	14.23	
A HEAVY OIL	NTD/KL	7,594.00	
C FUEL OIL			
LPG	NTD/Kg	15.30	
<b>CONSUMER PRICES</b>			
COAL			
HARD COAL			
STEAM COAL			
COKING COAL			
SUBBITUMINOUS COAL			
NATURAL GAS	NTD/CM	7.91	
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	NTD/L	19.02	
KEROSENE	NTD/L	19.40	
DIESEL OIL	NTD/L	15.12	
A HEAVY OIL	NTD/KL	8,390.00	
LPG	NTD/Kg	16.70	
ELECTRICITY (AVERAGE)(*1)	NTD/KWH	2.09	
INDUSTRIAL USERS (*1)	NTD/KWH	1.85	
COMMERCIAL USERS (*1)			
RESIDENTIAL USERS (LIGHTING) (*1)	NTD/KWH	2.58	

## Original Table (Quarterly) of Chinese Taipei in 2003

Coal		Unit: 1,000ton			
		Production	Imports	Exports	Stock Changes
2003	JAN.	-	4,263	-	71
	FEB.	-	3,678	-	50
	MAR.	-	4,625	-	273
	<b>1st quarter</b>	-	12,567	-	394
	APR.	-	5,303	-	873
	MAY.	-	4,701	-	-18
	JUN.	-	4,723	-	6
	<b>2nd quarter</b>	-	14,727	-	861
	JUL.	-	5,339	-	248
	AUG.	-	4,727	-	-186
	SEP.	-	4,115	-	-695
	<b>3rd quarter</b>	-	14,181	-	-634
	OCT.	-	4,799	-	24
	NOV.	-	4,322	-	-94
	DEC.	-	4,150	-	-621
	<b>4th quarter</b>	-	13,271	-	-691
		-	54,746	-	-69

Oil		Unit: 1,000kL						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	5	3,942		-380	1,021	1,010	-727
	FEB.	4	4,365		622	733	703	791
	MAR.	5	3,026		-908	602	698	-1,002
	<b>1st quarter</b>	14	11,333		-666	2,356	2,411	-938
	APR.	3	3,917		83	834	667	-40
	MAY.	3	5,154		637	813	761	1,041
	JUN.	3	3,816		-355	937	997	-107
	<b>2nd quarter</b>	9	12,887		365	2,584	2,425	894
	JUL.	3	4,971		759	869	1,097	247
	AUG.	3	3,591		-1,087	938	1,175	-1,510
	SEP.	3	4,548		747	1,032	790	424
	<b>3rd quarter</b>	10	13,109		420	2,840	3,061	-838
	OCT.	3	4,589		11	674	807	65
	NOV.	4	4,340		-385	777	1,313	-482
	DEC.	6	5,479		499	510	1,529	-78
	<b>4th quarter</b>	13	14,408		126	1,962	3,649	-495
		46	51,737	-	245	9,741	11,546	-1,378



Original Table (Quarterly) of Chinese Taipei in 2003 (Continued)

Natural Gas ( or LNG)		Unit: 1,000m <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	87,097	553,041	-	616
	FEB.	63,114	396,888	-	-175
	MAR.	89,843	461,594	-	-105
	<b>1st quarter</b>	240,054	1,411,523	-	336
	APR.	66,781	697,193	-	105,351
	MAY.	61,679	632,497	-	-11,184
	JUN.	60,912	548,015	-	-61,516
	<b>2nd quarter</b>	189,372	1,877,705	-	32,651
	JUL.	59,836	863,950	-	75,792
	AUG.	63,502	708,038	-	-52,858
	SEP.	63,690	705,147	-	40,046
	<b>3rd quarter</b>	187,028	2,277,135	-	62,980
	OCT.	63,705	637,293	-	20,066
	NOV.	69,051	551,422	-	-69,814
	DEC.	81,683	545,665	-	-33,766
	<b>4th quarter</b>	214,439	1,734,380	-	-83,514
		830,893	7,300,743	-	12,453

Electricity		Unit: GWh					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	15,476	8,258	470	3,671	3,076	-	-
	FEB.	13,841	7,516	454	3,295	2,576	-	-
	MAR.	16,016	9,478	506	3,071	2,960	-	-
	<b>1st quarter</b>	45,333	25,252	1,430	10,037	8,612	-	-
	APR.	16,511	10,421	562	2,757	2,772	-	-
	MAY.	17,814	11,363	592	2,811	3,047	-	-
	JUN.	17,861	10,568	699	3,361	3,234	-	-
	<b>2nd quarter</b>	52,186	32,352	1,853	8,929	9,053	-	-
	JUL.	21,055	13,014	705	3,660	3,676	-	-
	AUG.	20,558	12,592	589	3,714	3,662	-	-
	SEP.	19,029	11,750	673	3,048	3,559	-	-
	<b>3rd quarter</b>	60,642	37,356	1,967	10,422	10,897	-	-
	OCT.	17,727	10,552	601	3,267	3,307	-	-
	NOV.	16,576	10,229	527	2,959	2,861	-	-
	DEC.	16,517	9,628	499	3,276	3,115	-	-
	<b>4th quarter</b>	50,820	30,408	1,627	9,502	9,283	-	-
		208,981	125,368	6,877	38,890	37,845	-	-

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.

## 3.19 Thailand

## Energy Balance Table of Thailand in 2001

	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	5,697	-	5,492	-	-	-	-	-	-
2 Import	3,103	37	35,923	392	108	-	3	-	281
3 Export	-	-	-1,925	-5,610	-1,113	-	-403	-326	-1,429
4 International Marine Bunkers	-	-	-	-	-	-	-	-	-
5 Stock Changes	61	-	783	-576	-92	-	48	-111	-73
<b>6 Total Primary Energy Supply</b>	<b>8,861</b>	<b>37</b>	<b>40,273</b>	<b>-5,794</b>	<b>-1,097</b>	<b>-</b>	<b>-351</b>	<b>-437</b>	<b>-1,221</b>
7 Public Electricity	-4,480	-	-	-738	-	-	-	-	-73
8 Autoproducers of Electricity	-	-	-	-	-	-	-	-	-
9 Gas Processing	-	-	457	1,846	-	-	-	-	-
10 Petroleum Refineries	-	-	-38,446	32,499	6,254	-	3,417	484	14,474
11 Coal Transformation	-	-	-	-	-	-	-	-	-
12 Loss & Own Use	-	-	-152	-	-	-	-	-	-
13 Discrepancy	0	-	0	197	0	-	0	0	0
<b>14 Total Final Energy Consumption</b>	<b>4,380</b>	<b>37</b>	<b>2,132</b>	<b>28,010</b>	<b>5,157</b>	<b>-</b>	<b>3,066</b>	<b>47</b>	<b>13,180</b>
15 Industry Sector	4,380	37	-	4,170	16	-	-	37	755
16 Transport Sector	-	-	-	18,800	5,087	-	3,066	-	9,627
17 Other Sector	-	-	-	4,583	53	-	-	10	2,799
18 Agriculture	-	-	-	2,858	53	-	-	1	2,798
19 Residential & Commercial	-	-	-	1,725	-	-	-	9	1
20 Other	-	-	-	-	-	-	-	-	-
21 Non-energy	-	-	2,132	456	-	-	-	-	-

## 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
<b>6 Total Primary Energy Supply</b>	<b>9,258</b>	<b>47</b>	<b>41,897</b>	<b>-4,925</b>	<b>-696</b>	<b>-</b>	<b>-731</b>	<b>-406</b>	<b>-1,128</b>
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
<b>14 Total Final Energy Consumption</b>	<b>4,883</b>	<b>47</b>	<b>2,079</b>	<b>29,474</b>	<b>5,509</b>	<b>-</b>	<b>3,117</b>	<b>51</b>	<b>13,951</b>
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 2001 (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
-	-	-	-	17,193	-	542	-	2	-	-	-	28,926
-	-	-	-	5,696	-	-	-	-	-	248	-	45,399
-1,429	-909	-	-	-	-	-	-	-	-	-23	-	-7,557
-	-	-	-	-	-	-	-	-	-	-	-	-
-313	-36	-	-	-	-	-	-	-	-	-	-	267
-1,742	-946	-	-	22,890	-	542	-	2	-	225	-	67,035
-665	-	-	-	-17,399	-	-542	-	-2	-	8,808	-	-14,353
-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,846	-	-	-179	-	-	-	-	-	-	-	2,125
6,094	1,775	-	-	-	-	-	-	-	-	-	-	-5,947
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-3,739	-	-	-	-	-	-1,096	-	-4,988
0	197	-	-	0	-	-	-	-	-	0	-	197
3,687	2,872	-	-	1,572	-	-	-	-	-	7,937	-	44,069
2,959	403	-	-	1,570	-	-	-	-	-	3,604	-	13,762
723	298	-	-	2	-	-	-	-	-	3	-	18,805
5	1,716	-	-	-	-	-	-	-	-	4,330	-	8,913
4	2	-	-	-	-	-	-	-	-	15	-	2,874
1	1,714	-	-	-	-	-	-	-	-	4,315	-	6,040
-	-	-	-	-	-	-	-	-	-	-	-	-
-	456	-	-	-	-	-	-	-	-	-	-	2,588

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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	12,104	13,505	14,745	15,673	16,110	18,953	21,304	24,971	29,668
Indigenous Production	531	2,917	4,230	6,701	6,831	8,256	9,406	10,169	11,749
Import	12,012	10,762	10,591	9,393	9,535	11,359	12,112	15,766	18,794
Export	-16	-68	-131	-442	-570	-477	-678	-713	-784
Final Energy Consumption	9,272	10,512	11,575	11,955	12,721	14,295	16,225	19,222	22,014
Industry	2,759	2,585	2,847	3,043	3,048	3,451	3,915	4,825	5,862
Transport	4,278	5,084	5,953	6,360	6,820	7,875	8,914	10,169	11,368
Residential & Commercial	991	1,672	1,605	1,566	1,768	1,956	2,382	2,388	2,650
Agriculture	1,130	1,043	1,029	841	881	835	834	1,639	1,803
<b>Coal, Coal Products</b>									
Primary Energy Supply	445	652	786	1,589	1,627	2,094	2,271	2,763	3,793
Indigenous Production	408	577	667	1,401	1,508	1,932	2,049	2,592	3,570
Import	60	109	144	213	141	197	240	300	218
Export	-1	-1	-	-	-	-1	-	-	-
Transformation Sector	-331	-393	-485	-1,143	-1,163	-1,420	-1,463	-1,681	-2,449
Power Generation	-331	-393	-485	-1,143	-1,163	-1,420	-1,463	-1,681	-2,449
Final Energy Consumption	114	259	301	446	464	674	808	1,082	1,344
Industry	114	259	301	446	464	674	808	1,082	1,344
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	7,745	8,251	7,988	8,134	8,502	8,949	9,085	11,249	12,107
Indigenous Production	14	631	1,111	1,732	1,706	1,584	1,832	1,904	2,093
Import	7,866	7,791	6,811	6,751	7,178	7,868	7,509	10,143	10,860
Export	-	-63	-126	-403	-493	-445	-676	-704	-760
Transformation Sector	-7,745	-8,251	-7,988	-8,113	-8,479	-8,874	-9,064	-11,215	-12,077
Petroleum Refineries	-7,736	-8,189	-7,982	-8,141	-8,563	-8,849	-9,148	-11,180	-11,697
<b>Petroleum Products</b>									
Primary Energy Supply	3,739	2,835	3,460	2,322	2,301	3,135	4,388	5,233	7,629
Import	4,020	2,802	3,575	2,367	2,151	3,258	4,326	5,268	7,660
Export	-14	-2	-3	-37	-76	-29	-	-7	-21
Transformation Sector	4,288	5,932	6,023	6,221	7,950	8,255	8,518	9,935	9,478
Power Generation	-2,982	-1,759	-1,539	-856	-827	-550	-788	-1,171	-2,525
Petroleum Refineries	7,270	7,691	7,533	6,645	8,247	8,324	8,786	10,764	11,384
Final Energy Consumption	8,027	8,767	9,483	9,587	10,251	11,419	12,906	15,168	17,108
Industry	2,090	1,605	1,602	1,619	1,623	1,764	1,933	2,302	2,727
Transport	4,278	5,084	5,953	6,360	6,820	7,875	8,914	10,169	11,368
Residential & Commercial	417	911	762	648	752	794	1,072	899	919
Agriculture	1,128	1,039	1,025	836	876	830	828	1,631	1,795
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	-	1,394	2,101	3,250	3,139	4,390	5,200	5,194	5,657
Indigenous Production	-	1,394	2,101	3,250	3,139	4,390	5,200	5,194	5,657
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-1,362	-1,907	-3,072	-3,052	-4,350	-5,140	-5,080	-5,393
Power Generation	-	-1,319	-1,824	-2,388	-2,273	-3,504	-4,189	-4,292	-4,177
Final Energy Consumption	-	32	194	178	87	40	60	114	264
Industry	-	32	194	178	87	40	60	114	264
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	1,241	1,622	1,808	1,984	2,126	2,464	2,792	3,217	3,764
Thermal	1,131	1,307	1,457	1,667	1,648	2,114	2,467	2,738	3,336
Hydro	109	315	351	318	478	350	325	479	428
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	1,131	1,454	1,597	1,723	1,895	2,141	2,430	2,824	3,267
Industry	555	689	750	800	874	973	1,114	1,327	1,528
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	574	761	843	918	1,016	1,162	1,310	1,489	1,731
Agriculture	2	4	4	5	5	5	6	8	8

## Major Energy Indicators of Thailand (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
32,454	35,680	40,384	45,080	51,659	57,710	60,353	58,103	60,921	63,255	67,035	71,677	
13,809	14,813	15,901	17,586	18,485	21,411	24,926	25,658	26,823	28,559	28,926	30,679	
19,352	22,267	25,882	28,245	33,750	41,782	41,347	36,703	39,319	40,086	45,399	47,854	
-949	-1,003	-977	-1,176	-1,174	-4,360	-5,800	-5,307	-5,862	-5,450	-7,557	-8,266	
23,606	25,964	29,223	33,086	37,561	41,862	42,183	39,336	40,667	41,557	44,069	46,865	
6,539	7,426	8,705	10,418	11,944	13,400	12,516	10,992	12,461	12,833	13,762	15,064	
11,910	12,653	14,581	16,336	18,761	20,094	21,398	19,031	19,168	18,828	18,805	19,819	
2,922	3,480	4,066	4,087	4,735	5,169	5,614	5,641	5,358	5,731	6,040	6,401	
1,827	1,897	1,618	1,576	1,574	1,786	1,494	1,897	2,180	2,180	2,874	3,061	
4,466	4,794	5,378	6,120	7,064	8,643	8,716	7,332	7,989	7,838	8,898	9,305	
4,193	4,426	4,631	5,174	5,524	6,314	6,868	6,131	5,752	5,196	5,697	5,742	
331	342	659	957	1,515	2,478	2,053	1,027	2,048	2,655	3,140	3,597	
-	-	-	-	-	-	-	-	-	-	-	-	
-2,907	-3,067	-2,848	-3,014	-3,406	-4,197	-4,745	-4,063	-4,077	-4,204	-4,480	-4,375	
-2,907	-3,067	-2,848	-3,014	-3,406	-4,197	-4,745	-4,063	-4,077	-4,204	-4,480	-4,375	
1,559	1,727	2,531	3,106	3,658	4,446	3,971	3,268	3,912	3,660	4,418	4,930	
1,559	1,713	2,524	3,106	3,658	4,443	3,970	3,267	3,912	3,660	4,418	4,930	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
12,425	15,432	18,092	20,883	24,901	33,321	38,500	37,544	39,024	39,400	40,273	41,897	
2,210	2,521	2,554	2,716	2,550	2,947	3,409	3,652	3,955	5,159	5,492	6,280	
10,996	13,792	16,096	18,610	22,840	31,686	36,419	34,239	35,184	34,062	35,923	36,697	
-916	-844	-617	-882	-715	-1,127	-1,185	-1,041	-728	-514	-1,925	-2,731	
-12,380	-15,344	-17,969	-20,751	-24,771	-33,039	-38,095	-37,413	-37,738	-37,921	-38,141	-39,817	
-12,440	-15,300	-17,905	-20,862	-24,871	-33,138	-38,281	-37,506	-37,901	-38,169	-38,446	-40,156	
8,110	7,550	8,147	8,311	9,230	3,534	-1,567	-2,793	-3,412	-4,361	-5,794	-4,925	
7,974	8,092	9,072	8,603	9,335	7,549	2,811	1,278	1,866	1,179	392	793	
-29	-155	-356	-289	-452	-3,225	-4,606	-4,253	-5,119	-4,919	-5,610	-5,512	
9,834	11,918	13,426	15,392	18,104	26,480	31,199	30,922	30,632	31,530	33,607	34,206	
-3,034	-3,565	-4,320	-4,920	-5,611	-5,918	-5,053	-4,339	-3,726	-2,344	-738	-664	
11,943	14,508	16,732	19,398	22,211	30,237	34,963	33,123	32,801	32,193	32,499	32,988	
17,944	19,468	21,238	23,882	26,859	29,542	29,767	28,085	27,337	27,303	28,010	29,474	
2,932	3,517	3,811	4,243	4,676	5,043	4,629	4,188	4,316	4,335	4,170	4,440	
11,910	12,653	14,581	16,336	18,758	20,089	21,393	19,026	19,163	18,822	18,800	19,811	
920	1,005	1,116	1,207	1,444	1,507	1,510	1,394	1,479	1,637	1,725	1,738	
1,819	1,887	1,607	1,568	1,565	1,775	1,480	1,879	2,166	2,167	2,858	3,044	
7,011	7,501	8,397	9,307	9,833	11,518	14,029	15,447	16,837	19,620	22,890	24,537	
7,011	7,501	8,397	9,307	9,833	11,518	14,029	15,428	16,810	17,685	17,193	18,012	
-	-	-	-	-	-	-	19	27	1,935	5,696	6,525	
-	-	-	-	-	-	-	-	-	-	-	-	
-6,651	-7,060	-7,905	-9,754	-9,046	-10,578	-13,078	-14,555	-15,710	-18,164	-21,317	-22,790	
-5,359	-5,672	-6,407	-7,290	-7,476	-8,466	-10,910	-11,479	-12,263	-14,106	-17,399	-18,698	
360	441	492	587	787	940	951	890	1,127	1,389	1,572	1,767	
360	441	492	582	784	935	946	885	1,122	1,386	1,570	1,762	
-	-	-	-	3	5	5	5	5	2	2	6	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
4,276	4,911	5,453	6,121	6,885	7,522	8,020	7,746	7,746	8,254	8,808	9,375	
3,882	4,546	5,135	5,733	6,308	6,891	7,400	7,301	7,442	7,736	8,266	8,733	
394	364	318	388	577	631	619	445	304	518	542	643	
-	-	-	-	-	-	-	-	-	-	-	-	
3,698	4,240	4,840	5,376	6,125	6,652	7,089	6,917	7,005	7,562	7,937	8,615	
1,688	1,755	1,878	2,487	2,826	2,979	2,971	2,652	3,111	3,452	3,604	3,933	
-	-	-	-	-	-	-	-	-	3	3	3	
2,002	2,475	2,950	2,880	3,291	3,662	4,104	4,247	3,879	4,094	4,315	4,662	
8	10	11	8	9	11	14	18	14	13	15	17	

## Major Economic Indicators of Thailand

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	46.72	49.54	50.38	51.15	51.95	52.80	53.69	54.62
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	52.19	61.48	65.02	68.04	71.80	78.64	89.09	99.95
Real Term (Billions of 1995 Price and 1995 PPP)	107.89	127.11	134.42	140.66	148.45	162.58	184.18	206.64
Nominal (Billions of Current USD)	32.35	40.04	41.80	38.90	43.10	50.54	61.67	72.25
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	1,117	1,241	1,291	1,330	1,382	1,489	1,659	1,830
Real Term (1995 Price and 1995 PPP)	2,309	2,566	2,668	2,750	2,857	3,079	3,431	3,783
Nominal (Current USD)	693	808	830	761	830	957	1,149	1,323
Nominal GDP & its Components (Billions of Current THB) *1								
Gross Domestic Product	662.48	920.99	988.07	1,056.50	1,133.40	1,299.91	1,559.80	1,856.99
Household Final Consumption Expenditure, etc.	433.58	599.56	628.94	657.37	695.78	781.06	885.01	1,030.56
General Government Final Consumption Expenditure	81.43	118.58	130.10	142.92	144.56	147.22	156.71	176.80
Gross Fixed Capital Formation	183.99	262.14	282.60	287.00	292.19	359.27	478.53	642.88
Stock Change	9.07	13.93	8.62	11.40	1.04	3.08	29.82	8.30
Exports of Goods and Services	159.73	185.22	216.40	245.25	290.17	375.60	514.92	648.49
Imports of Goods and Services	201.18	251.18	258.56	274.07	267.13	368.32	536.60	696.10
Real GDP & its Components (Billions of 1988 THB) *1								
Gross Domestic Product	913.73	1,076.43	1,138.35	1,191.25	1,257.18	1,376.85	1,559.80	1,749.95
Household Final Consumption Expenditure, etc.	607.23	682.67	712.97	723.20	748.90	813.78	885.01	984.18
General Government Final Consumption Expenditure	106.94	130.96	141.57	151.25	150.21	150.64	156.71	160.82
Gross Fixed Capital Formation	269.63	327.41	346.64	333.64	331.35	392.41	478.53	586.32
Stock Change	6.45	13.45	11.92	12.23	0.14	1.78	29.82	8.43
Exports of Goods and Services	195.23	223.73	262.34	288.02	332.42	404.91	514.92	625.83
Imports of Goods and Services	271.20	309.12	332.72	290.57	287.87	384.48	536.60	652.44
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	19.9	19.4	19.1	19.1	18.2	16.6	16.2	15.8
Industry	30.1	31.8	32.6	31.6	32.3	33.7	34.6	36.2
Services, etc.	50.0	48.8	48.3	49.4	49.5	49.8	49.2	48.0
Industrial Production Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	6.505	6.368	7.413	7.121	8.872	11.654	15.953	20.078
Imports, c.i.f.	9.214	10.287	10.398	9.242	9.173	13.023	20.285	25.771
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-1.902	-2.861	-1.898	-1.332	0.388	-0.424	-2.074	-2.916
Current Account	-2.076	-2.873	-2.109	-1.537	0.247	-0.366	-1.654	-2.498
Overall Balance	-0.206	-0.320	0.529	0.105	0.714	0.945	2.596	5.029
Foreign Exchange Rate (THB/USD) *1	20.4764	23.0001	23.6394	27.1589	26.2989	25.7228	25.2939	25.7020
Purchasing Power Parity (THB/International Dollar) *1	10.6595	10.4305	10.1578	10.0052	9.9174	10.1054	10.3635	10.6258
Price Indices								
GDP Deflator (1988=100) *3	72.5	85.6	86.8	88.7	90.2	94.4	100.0	106.1
Wholesale Price Index (2000=100) *2	52.0	58.7	56.8	56.8	56.6	59.9	64.9	67.8
Consumer Price Index (2000=100) *2	41.8	51.4	51.9	53.1	54.1	55.5	57.6	60.7
Growth Rate (%) *3								
Real GDP	5.17	5.58	5.75	4.65	5.53	9.52	13.29	12.19
Population	2.21	1.85	1.70	1.52	1.58	1.63	1.68	1.74
Price								
Wholesale Price Index	20.1	2.0	-3.1	0.0	-0.4	5.9	8.2	4.6
Consumer Price Index	19.7	3.7	0.9	2.4	1.8	2.5	3.8	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"

: THB shows Baht, USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of Thailand (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
55.60	56.45	57.19	57.80	58.27	58.61	58.98	59.37	59.79	60.25	60.73	61.18	61.61
111.11	120.62	130.37	141.13	153.81	168.02	177.93	175.49	157.05	164.03	171.84	175.51	185.00
229.71	249.37	269.53	291.77	317.99	347.36	367.86	362.82	324.68	339.13	355.27	362.85	382.47
85.34	98.23	111.45	125.01	144.31	168.02	181.95	150.89	111.86	122.63	122.74	115.54	126.91
1,999	2,137	2,280	2,442	2,640	2,867	3,017	2,956	2,627	2,723	2,830	2,869	3,003
4,132	4,417	4,713	5,048	5,457	5,927	6,237	6,111	5,430	5,629	5,850	5,931	6,208
1,535	1,740	1,949	2,163	2,476	2,867	3,085	2,542	1,871	2,035	2,021	1,888	2,060
2,183.54	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	4,923.26	5,133.84	5,451.85
1,234.98	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	2,753.63	2,925.19	3,082.06
205.35	231.13	280.20	315.98	354.39	414.40	469.52	476.70	511.69	533.04	557.79	582.52	608.16
881.76	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	1,080.32	1,180.53	1,246.38
21.21	30.33	20.06	13.48	10.72	43.04	35.24	-5.47	-89.47	-15.29	42.74	56.26	58.68
745.29	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	3,386.09	3,526.05
909.46	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	3,051.58	3,133.95
1,945.37	2,111.86	2,282.57	2,470.91	2,692.97	2,941.74	3,115.34	3,072.61	2,749.68	2,871.98	3,008.66	3,072.93	3,239.03
1,110.93	1,171.16	1,273.03	1,380.20	1,486.10	1,601.69	1,694.44	1,671.18	1,478.78	1,542.77	1,619.91	1,683.63	1,766.85
171.94	182.59	194.28	204.21	220.94	232.46	260.47	253.10	262.96	271.03	276.89	284.52	291.72
759.87	856.23	913.05	997.75	1,111.15	1,236.09	1,323.01	1,051.25	585.30	566.41	596.78	603.76	643.30
20.65	28.45	17.80	13.81	8.27	42.89	22.51	-0.75	-69.30	-6.69	25.64	34.70	37.80
709.65	817.09	929.91	1,050.66	1,200.67	1,386.11	1,309.53	1,404.25	1,519.99	1,657.26	1,947.08	1,868.04	2,093.48
806.98	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	1,499.93	1,417.25	1,610.03
13.6	13.4	13.0	10.3	9.9	9.4	9.3	9.3	10.3	10.1	10.3	10.4	10.2
37.8	39.0	39.7	41.9	42.4	43.0	43.4	43.3	42.0	44.1	44.3	44.1	44.7
48.6	47.6	47.3	47.8	47.7	47.6	47.3	47.4	47.7	45.8	45.4	45.4	45.1
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.
23.068	28.428	32.472	36.969	45.261	56.439	55.721	57.374	54.456	58.440	69.057	65.113	68.853
33.045	37.569	40.686	46.077	54.459	70.786	72.332	62.854	42.971	50.342	61.924	62.058	64.721
-6.751	-5.989	-4.161	-4.297	-3.726	-7.968	-9.488	1.572	16.238	14.013	11.701	8.543	9.081
-7.281	-7.571	-6.303	-6.364	-8.085	-13.554	-14.692	-3.021	14.243	12.428	9.313	6.192	7.014
3.235	4.618	3.029	3.907	4.169	7.159	2.167	-18.250	-2.696	1.388	-1.806	2.276	5.537
25.5855	25.5168	25.4001	25.3196	25.1500	24.9152	25.3427	31.3643	41.3594	37.8137	40.1118	44.4319	42.9601
10.8187	11.0142	11.1485	11.3348	11.6727	12.0514	12.2221	12.4241	13.2875	12.6644	12.7212	12.6737	12.6237
112.2	118.7	124.0	128.1	134.8	142.3	148.0	154.0	168.3	161.5	163.6	167.1	168.3
70.2	75.0	75.1	74.8	77.8	84.1	85.7	90.0	101.0	96.2	100.0	102.5	104.2
64.3	68.0	70.7	73.1	76.8	81.3	86.0	90.8	98.2	98.5	100.0	101.7	102.3
11.17	8.56	8.08	8.25	8.99	9.24	5.90	-1.37	-10.51	4.45	4.76	2.14	5.41
1.79	1.55	1.30	1.06	0.82	0.58	0.62	0.67	0.71	0.76	0.80	0.75	0.70
3.5	6.8	0.2	-0.4	4.0	8.2	1.8	5.1	12.2	-4.7	3.9	2.5	1.7
5.9	5.7	4.1	3.4	5.0	5.8	5.9	5.6	8.1	0.3	1.6	1.7	0.6



## Original Table (Energy Demand and Supply) of Thailand in 2002

Year:2002

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	19,602.00	kt	0.2929	TOE/t	5,741.91	KTOE
LIGNITE	19,602.00	kt	0.2929	TOE/t	5,741.91	KTOE
CRUDE OIL AND NGL/CONDENSATE	7,515.00	ML	0.8357	TOE/KL	6,280.12	KTOE
CRUDE OIL	4,401.00	ML	0.8680	TOE/KL	3,820.06	KTOE
CONDENSATE	3,114.00	ML	0.7900	TOE/KL	2,460.06	KTOE
NATURAL GAS AND LNG	726,349.00	MMscf	0.0248	KTOE/MMscf	18,012.37	KTOE
NATURAL GAS	726,349.00	MMscf	0.0248	KTOE/MMscf	18,012.37	KTOE
HYDRO POWER	7,471.00	GWh	0.0860	KTOE/GWh	642.51	KTOE
GEOTHERMAL POWER	2.00	GWh	0.8600	KTOE/GWh	1.72	KTOE
TOTAL PRODUCTION					30,678.62	KTOE
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						KTOE
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						KTOE
<b>STOCK CHANGE</b>						
LIGNITE	-62.00	kt	0.5535	TOE/t	-34.32	KTOE
CRUDE OIL AND NGL/CONDENSATE	1,891.00	ML	0.8725	TOE/KL	1,649.96	KTOE
CRUDE OIL	2,001.00	ML	0.8680	TOE/KL	1,736.86	KTOE
CONDENSATE	-110.00	ML	0.7900	TOE/KL	-86.90	KTOE
LPG	-49.00	ML	0.6360	TOE/KL	-31.16	KTOE
MOGAS	81.00	ML	0.7520	TOE/KL	60.91	KTOE
JET FUEL	-16.00	ML	0.8250	TOE/KL	-13.20	KTOE
KEROSENE	-880.00	ML	0.8250	TOE/KL	-726.00	KTOE
DIESEL OIL	1,036.00	ML	0.8700	TOE/KL	901.32	KTOE
FUEL OIL	-418.00	ML	0.9500	TOE/KL	-397.10	KTOE
TOTAL STOCK CHANGE					1,410.41	KTOE
<b>IMPORTS</b>						
STEAM COAL	4,944.00	kt	0.6300	TOE/t	3,114.70	KTOE
ANTHRACITE	581.00	kt	0.7500	TOE/t	435.75	KTOE
COKE	71.00	kt	0.6600	TOE/t	46.86	KTOE
CRUDE OIL AND NGL/CONDENSATE	42,278.00	ML	0.8680	TOE/KL	36,697.22	KTOE
CRUDE OIL	42,278.00	ML	0.8680	TOE/KL	36,697.22	KTOE
MOGAS	224.00	ML	0.7520	TOE/KL	168.45	KTOE
JET FUEL	51.00	ML	0.8250	TOE/KL	42.08	KTOE
KEROSENE	706.00	ML	0.8250	TOE/KL	582.45	KTOE
NATURAL GAS AND LNG	263,120.00	MMscf	0.0248	KTOE/MMscf	6,524.98	KTOE
NATURAL GAS	263,120.00	MMscf	0.0248	KTOE/MMscf	6,524.98	KTOE
ELECTRICITY	2,812.00	GWh	0.0860	KTOE/GWh	241.83	KTOE
TOTAL IMPORTS					47,854.31	KTOE
<b>EXPORTS</b>						
CRUDE OIL AND NGL/CONDENSATE	3,177.00	ML	0.8595	TOE/KL	2,730.56	KTOE
CRUDE OIL	2,830.00	ML	0.8680	TOE/KL	2,456.43	KTOE
NGL/CONDENSATE	347.00	ML	0.7900	TOE/KL	274.13	KTOE
LPG	1,270.00	ML	0.6360	TOE/KL	807.72	KTOE
MOGAS	1,230.00	ML	0.7520	TOE/KL	924.96	KTOE
JET FUEL	921.00	ML	0.8250	TOE/KL	759.83	KTOE
KEROSENE	318.00	ML	0.8250	TOE/KL	262.35	KTOE
DIESEL OIL	2,332.00	ML	0.8700	TOE/KL	2,028.83	KTOE
FUEL OIL	767.00	ML	0.9500	TOE/KL	728.65	KTOE
ELECTRICITY	273.00	GWh	0.0860	KTOE/GWh	23.48	KTOE
TOTAL EXPORTS					8,266.38	KTOE
<b>INTERNATIONAL MARINE BUNKERS</b>						
TOTAL PRIMARY ENERGY SUPPLY					71,676.97	KTOE
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	46,321.00	ML	0.8669	TOE/KL	40,155.60	KTOE
CRUDE OIL	45,668.00	ML	0.8680	TOE/KL	39,639.73	KTOE
NGL/CONDENSATE	653.00	ML	0.7900	TOE/KL	515.87	KTOE
<b>GAS PROCESSING</b>						
NATURAL GAS	461,715.00	MMscf	0.0248	KTOE/MMscf	11,449.84	KTOE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	15,954.00	kt	0.2742	TOE/t	4,375.38	KTOE
HARD COAL	475.00	kt	0.6300	TOE/t	299.25	KTOE
STEAM COAL	475.00	kt	0.6300	TOE/t	299.25	KTOE
ANTHRACITE	395.00	kt	0.7500	TOE/t	296.25	KTOE
LIGNITE	15,084.00	kt	0.2506	TOE/t	3,779.88	KTOE
DIESEL OIL	47.00	ML	0.8700	TOE/KL	40.89	KTOE
FUEL OIL	656.00	ML	0.9500	TOE/KL	623.20	KTOE
NATURAL GAS	758,169.00	MMscf	0.0247	KTOE/MMscf	18,698.29	KTOE
HYDRO POWER	7,471.00	GWh	0.0860	KTOE/GWh	642.51	KTOE
GEOTHERMAL POWER	2.00	GWh	0.8600	KTOE/GWh	1.72	KTOE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
LPG	2,632.00	ML	0.6360	TOE/KL	1,673.95	KTOE
MOGAS	8,251.00	ML	0.7520	TOE/KL	6,204.74	KTOE
JET FUEL	4,664.00	ML	0.8250	TOE/KL	3,847.81	KTOE

Original Table (Energy Demand and Supply) of Thailand in 2002 (Continued)

Year:2002

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
KEROSENE	554.00	MI.	0.8250	TOE/KL	457.05	KTOE
DIESEL OIL	17,379.00	MI.	0.8700	TOE/KL	15,119.67	KTOE
FUEL OIL	5,984.00	MI.	0.9500	TOE/KL	5,684.76	KTOE
<b>GAS RECOVERING</b>						
PROCESSED GAS	461,715.00	MMscf	0.0244	KTOE/MMscf	11,268.10	KTOE
NGL	628.00	MI.	0.7900	TOE/KL	496.12	KTOE
LPG	2,960.00	MI.	0.6360	TOE/KL	1,882.56	KTOE
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	101,540.00	GWh	0.0860	KTOE/GWh	8,732.44	KTOE
HYDRO POWER	7,471.00	GWh	0.0860	KTOE/GWh	642.51	KTOE
GEOTHERMAL POWER	2.00	GWh	0.0860	KTOE/GWh	0.17	KTOE
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
CRUDE OIL AND NGL/CONDENSATE	182.00	MI.	0.8680	TOE/KL	157.98	KTOE
CRUDE OIL	182.00	MI.	0.8680	TOE/KL	157.98	KTOE
NATURAL GAS	158,886.00	MMscf	0.0246	KTOE/MMscf	3,909.67	KTOE
ELECTRICITY	11,379.00	GWh	0.0860	KTOE/GWh	978.59	KTOE
TOTAL LOSSES AND OWN USE					5,046.24	KTOE
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	9,111.00	kt	0.5359	TOE/t	4,882.73	KTOE
HARD COAL	4,469.00	kt	0.6300	TOE/t	2,815.45	KTOE
STEAM COAL	4,669.00	kt	0.6300	TOE/t	2,815.45	KTOE
ANTHRACITE	186.00	kt	0.7500	TOE/t	139.50	KTOE
LIGNITE	4,456.00	kt	0.4326	TOE/t	1,927.78	KTOE
COKE	71.00	kt	0.6600	TOE/t	46.86	KTOE
LPG	3,882.00	MI.	0.6360	TOE/KL	2,468.95	KTOE
MOGAS	7,326.00	MI.	0.7520	TOE/KL	5,509.15	KTOE
JET FUEL	3,778.00	MI.	0.8250	TOE/KL	3,116.86	KTOE
KEROSENE	62.00	MI.	0.8250	TOE/KL	51.15	KTOE
DIESEL OIL	16,036.00	MI.	0.8700	TOE/KL	13,951.26	KTOE
FUEL OIL	4,143.00	MI.	0.9500	TOE/KL	3,935.82	KTOE
NATURAL GAS AND LNG	72,414.00	MMscf	0.0244	KTOE/MMscf	1,767.25	KTOE
NATURAL GAS	72,414.00	MMscf	0.0244	KTOE/MMscf	1,767.25	KTOE
ELECTRICITY	100,173.00	GWh	0.0860	KTOE/GWh	8,614.88	KTOE
TOTAL					44,344.91	KTOE
<b>AGRICULTURE</b>						
LPG	4.00	MI.	0.6360	TOE/KL	2.54	KTOE
MOGAS	72.00	MI.	0.7520	TOE/KL	54.14	KTOE
KEROSENE	1.00	MI.	0.8250	TOE/KL	0.83	KTOE
DIESEL OIL	3,428.00	MI.	0.8700	TOE/KL	2,982.35	KTOE
FUEL OIL	4.00	MI.	0.9500	TOE/KL	3.80	KTOE
ELECTRICITY	196.00	GWh	0.0860	KTOE/GWh	16.86	KTOE
TOTAL					3,060.52	KTOE
<b>RESIDENTIAL COMMERCIAL</b>						
LPG	2,715.00	MI.	0.6360	TOE/KL	1,726.74	KTOE
KEROSENE	12.00	MI.	0.8250	TOE/KL	9.90	KTOE
DIESEL OIL	1.00	MI.	0.8700	TOE/KL	0.87	KTOE
FUEL OIL	1.00	MI.	0.9500	TOE/KL	0.95	KTOE
ELECTRICITY	54,211.00	GWh	0.0860	KTOE/GWh	4,662.15	KTOE
TOTAL					6,400.61	KTOE
<b>OTHERS</b>						
TOTAL						KTOE
<b>INDUSTRY</b>						
COAL	9,111.00	kt	0.5359	TOE/t	4,882.73	KTOE
HARD COAL	4,469.00	kt	0.6300	TOE/t	2,815.45	KTOE
STEAM COAL	4,469.00	kt	0.6300	TOE/t	2,815.45	KTOE
ANTHRACITE	186.00	kt	0.7500	TOE/t	139.50	KTOE
LIGNITE	4,456.00	kt	0.4326	TOE/t	1,927.78	KTOE
COKE	71.00	kt	0.6600	TOE/t	46.86	KTOE
LPG	739.00	MI.	0.6360	TOE/KL	470.00	KTOE
MOGAS	18.00	MI.	0.7520	TOE/KL	13.54	KTOE
KEROSENE	49.00	MI.	0.8250	TOE/KL	40.43	KTOE
DIESEL OIL	956.00	MI.	0.8700	TOE/KL	831.72	KTOE
FUEL OIL	3,247.00	MI.	0.9500	TOE/KL	3,084.63	KTOE
NATURAL GAS AND LNG	72,183.00	MMscf	0.0244	KTOE/MMscf	1,761.62	KTOE
NATURAL GAS	72,183.00	MMscf	0.0244	KTOE/MMscf	1,761.62	KTOE
ELECTRICITY	45,732.00	GWh	0.0860	KTOE/GWh	3,932.95	KTOE
TOTAL					15,064.47	KTOE
<b>TRANSPORT</b>						
LPG	424.00	MI.	0.6360	TOE/KL	269.66	KTOE
MOGAS	7,236.00	MI.	0.7520	TOE/KL	5,441.47	KTOE
JET FUEL	3,778.00	MI.	0.8250	TOE/KL	3,116.86	KTOE
DIESEL OIL	11,651.00	MI.	0.8700	TOE/KL	10,136.33	KTOE
FUEL OIL	891.00	MI.	0.9500	TOE/KL	846.44	KTOE
NATURAL GAS AND LNG	231.00	MMscf	0.0244	KTOE/MMscf	5.64	KTOE
NATURAL GAS	231.00	MMscf	0.0244	KTOE/MMscf	5.64	KTOE
ELECTRICITY	34.00	GWh	0.0860	KTOE/GWh	2.92	KTOE
TOTAL					19,819.32	KTOE
<b>NON-ENERGY</b>						
CRUDE OIL AND NGL/CONDENSATE	2,632.00	MI.	0.7900	TOE/KL	2,079.28	KTOE
NGL/CONDENSATE	2,632.00	MI.	0.7900	TOE/KL	2,079.28	KTOE

Original Table (Energy Demand and Supply) of Thailand in 2002 (Continued)

Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
LPG	693.00	ML	0.6360	TOE/KL	440.75	KTOE
TOTAL NON-ENERGY USE					2,520.03	KTOE

## ELECTRICITY GENERATING CAPACITY

At the time of 2002  
unit: MW

THERMAL POWER	19,290
COAL	N.A
OIL	N.A
GAS	N.A
HYDRO POWER	2,936
NUCLEAR POWER	-
GEOHERMAL POWER	0
OTHERS (WIND, TIDE, PHOTVOLTAIC)	0
OTHERS (BIOMASS, MUNICIPAL WASTE)	-
COGENERATION	1,930
COAL	N.A
OIL	N.A
GAS	N.A
OTHERS (BIOMASS, MUNICIPAL WASTE)	N.A

## REFINING CAPACITY

At the time of 2002

	Unit	
OPERATING RATE	%	76.5
CRUDE DISTILLATION CAPACITY	1000BD	1037
VACUUM DISTILLATION CAPACITY	1000BD	254
CATALYTIC HYDROCRACKING CAPACITY	1000BD	86
VACUUM GAS OIL HYDRODESULFURIZING CAPACITY	1000BD	215.4
RESIDUE HYDRODESULFURIZING CAPACITY	1000BD	-
CATALYTIC CRACKING CAPACITY	1000BD	50.3
CATALYTIC REFORMING CAPACITY	1000BD	141.3

## NON-COMMERCIAL ENERGY TABLE

At the time of 2002  
unit: KTOE

	1. Fuel Wood	2. Charcoal	3. Paddy Husk	4. Bagasse	5. TOTAL
PRIMARY ENERGY SUPPLY					
INDIGENOUS PRODUCTION	9793	-	1223	2798	13814
IMPORTS	0	10	-	-	10
EXPORTS	0	-3	-	-	-3
TOTAL	9793	7	1223	2798	13821
TRANSFORMATION(INPUT)	-6451	2300	-327	-300	-4778
TRANSFORMATION(OUTPUT)					
FINAL ENERGY CONSUMPTION					
AGRICULTURE	-	-	-	-	-
RESIDENTIAL COMMERCIAL	2688	2307	41	-	5036
INDUSTRY	654	-	855	2498	4007
TRANSPORT					
TOTAL	3342	2307	896	2498	9043

## Original Table (Disaggregated Final Energy Demand) of Thailand in 2002

2002						
Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>I INDUSTRIAL SECTOR</b>						
<b>1.1 IRON AND STEEL (*1)</b>						
COAL	339.00	kt	0.6578	TOE/t	223.00	KTOE
HARD COAL	228.00	kt	0.6242	TOE/t	143.00	KTOE
STEAM COAL	228.00	kt	0.6242	TOE/t	143.00	KTOE
ANTHRACITE	103.00	kt	0.7431	TOE/t	77.00	KTOE
LIGNITE	8.00	kt	0.3750	TOE/t	3.00	KTOE
COKE	37.00	kt	0.6539	TOE/t	24.00	KTOE
LPG	94.00	ML	0.6301	TOE/kL	59.00	KTOE
KEROSENE	1.00	ML	0.8174	TOE/kL	1.00	KTOE
DIESEL OIL	28.00	ML	0.8620	TOE/kL	24.00	KTOE
FUEL OIL	297.00	ML	0.9412	TOE/kL	280.00	KTOE
ELECTRICITY	4,210.00	Gwh	0.0852	KTOE/Gwh	359.00	KTOE
TOTAL					970.00	KTOE
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
COAL	825.00	kt	0.6291	TOE/t	519.00	KTOE
HARD COAL	790.00	kt	0.6242	TOE/t	493.00	KTOE
STEAM COAL	790.00	kt	0.6242	TOE/t	493.00	KTOE
ANTHRACITE	35.00	kt	0.7431	TOE/t	26.00	KTOE
COKE	34.00	kt	0.6539	TOE/t	22.00	KTOE
LPG	192.00	ML	0.6301	TOE/kL	121.00	KTOE
MOGAS	1.00	ML	0.7451	TOE/kL	1.00	KTOE
KEROSENE	2.00	ML	0.8174	TOE/kL	2.00	KTOE
DIESEL OIL	92.00	ML	0.8620	TOE/kL	79.00	KTOE
FUEL OIL	292.00	ML	0.9412	TOE/kL	275.00	KTOE
NATURAL GAS/LNG	19,732.00	MMscf	0.0242	KTOE/MMscf	477.00	KTOE
NATURAL GAS	19,732.00	MMscf	0.0242	KTOE/MMscf	477.00	KTOE
ELECTRICITY	7,620.00	Gwh	0.0852	KTOE/Gwh	649.00	KTOE
OTHERS	250.00	kt	0.3785	TOE/t	95.00	KTOE
TOTAL					2,240.00	KTOE
<b>1.3 NON-FERROUS METALS (*3)</b>						
TOTAL						KTOE
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
COAL	5,835.00	kt	0.5931	TOE/t	3,461.00	KTOE
HARD COAL	2,319.00	kt	0.8396	TOE/t	1,947.00	KTOE
STEAM COAL	2,319.00	kt	0.8396	TOE/t	1,947.00	KTOE
ANTHRACITE	48.00	kt	0.7431	TOE/t	35.00	KTOE
LIGNITE	3,468.00	kt	0.4265	TOE/t	1,479.00	KTOE
LPG	71.00	ML	0.6301	TOE/kL	44.00	KTOE
MOGAS	1.00	ML	0.7406	TOE/kL	1.00	KTOE
KEROSENE	2.00	ML	0.8174	TOE/kL	1.00	KTOE
DIESEL OIL	91.00	ML	0.8620	TOE/kL	79.00	KTOE
FUEL OIL	242.00	ML	0.9412	TOE/kL	228.00	KTOE
NATURAL GAS/LNG	37,375.00	MMscf	0.0242	KTOE/MMscf	904.00	KTOE
NATURAL GAS	37,375.00	MMscf	0.0242	KTOE/MMscf	904.00	KTOE
ELECTRICITY	5,842.00	Gwh	0.0852	KTOE/Gwh	498.00	KTOE
OTHERS	512.00	kt	0.3734	TOE/t	192.00	KTOE
TOTAL					5,408.00	KTOE
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
COAL	902.00	kt	0.4889	TOE/t	441.00	KTOE
HARD COAL	251.00	kt	0.6242	TOE/t	157.00	KTOE
STEAM COAL	251.00	kt	0.6242	TOE/t	157.00	KTOE
LIGNITE	651.00	kt	0.4355	TOE/t	284.00	KTOE
LPG	67.00	ML	0.6301	TOE/kL	43.00	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	22.00	ML	0.8620	TOE/kL	18.00	KTOE
FUEL OIL	202.00	ML	0.9412	TOE/kL	190.00	KTOE
ELECTRICITY	1,626.00	Gwh	0.0852	KTOE/Gwh	138.00	KTOE
TOTAL					832.00	KTOE
<b>1.6 OTHER INDUSTRIES (*6)</b>						
COAL	410.00	kt	0.4732	TOE/t	194.00	KTOE
HARD COAL	81.00	kt	0.6242	TOE/t	50.00	KTOE
STEAM COAL	81.00	kt	0.6242	TOE/t	50.00	KTOE
LIGNITE	329.00	kt	0.4364	TOE/t	144.00	KTOE
LPG	315.00	ML	0.6301	TOE/kL	199.00	KTOE
MOGAS	15.00	ML	0.7451	TOE/kL	11.18	KTOE
KEROSENE	43.00	ML	0.8174	TOE/kL	36.00	KTOE
DIESEL OIL	580.00	ML	0.8620	TOE/kL	499.95	KTOE
FUEL OIL	2,169.00	ML	0.9412	TOE/kL	2,041.00	KTOE

Original Table (Disaggregated Final Energy Demand) of Thailand in 2002 (Continued)

2002						
Thailand	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NATURAL GAS/LNG	15,076.00	MMscf	0.0242	KTOE/MMscf	364.00	KTOE
NATURAL GAS	15,076.00	MMscf	0.0242	KTOE/MMscf	364.00	KTOE
ELECTRICITY	25,390.00	Gwh	0.0852	KTOE/Gwh	2,164.00	KTOE
OTHERS	17,480.00	kt.	0.2128	TOE/t	3,720.00	KTOE
TOTAL					9,229.12	KTOE
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
JET FUEL	3,778.00	ML.	0.8174	TOE/kl	3,088.00	KTOE
TOTAL					3,088.00	KTOE
<b>2.2 ROAD</b>						
LPG	424.00	ML.	0.6301	TOE/kl	267.00	KTOE
MOGAS	7,236.00	ML.	0.7451	TOE/kl	5,391.00	KTOE
DIESEL OIL	11,344.00	ML.	0.8620	TOE/kl	9,778.00	KTOE
NATURAL GAS	231.00	MMscf	0.0242	KTOE/MMscf	6.00	KTOE
TOTAL					15,442.00	KTOE
<b>2.3 RAIL</b>						
DIESEL OIL	135.00	ML.	0.8620	TOE/kl	116.00	KTOE
ELECTRICITY	34.00	Gwh	0.0852	KTOE/Gwh	3.00	KTOE
TOTAL					119.00	KTOE
<b>2.4 INTERNAL NAVIGATION</b>						
DIESEL OIL	172.00	ML.	0.8620	TOE/kl	148.00	KTOE
FUEL OIL	891.00	ML.	0.9412	TOE/kl	839.00	KTOE
TOTAL					987.00	KTOE
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
LPG	1,167.00	ML.	0.6301	TOE/kl	735.37	KTOE
KEROSENE	3.00	ML.	0.8174	TOE/kl	2.00	KTOE
DIESEL OIL	1.00	ML.	0.8620	TOE/kl	1.00	KTOE
FUEL OIL	1.00	ML.	0.9412	TOE/kl	1.00	KTOE
ELECTRICITY	32,099.00	Gwh	0.0852	KTOE/Gwh	2,735.00	KTOE
TOTAL					3,474.37	KTOE
<b>3.2 RESIDENTIAL</b>						
LPG	1,548.00	ML.	0.6301	TOE/kl	975.46	KTOE
KEROSENE	9.00	ML.	0.8174	TOE/kl	7.00	KTOE
ELECTRICITY	22,112.00	Gwh	0.0852	KTOE/Gwh	1,884.00	KTOE
OTHERS	10,598.00	kt.	0.4752	TOE/t	5,036.00	KTOE
TOTAL					7,902.46	KTOE

Note : Iron and Steel including non - ferrous metals

## Original Table (Energy Price) of Thailand in 2002

Year: 2002

Thailand	Unit	Price	Note
<b>IMPORT CIF PRICES</b>			
COAL	US\$/TON	31.62	
STEAM COAL			
COKING COAL			
CRUDE OIL	US\$/bbl	24.79	
PETROLEUM PRODUCTS	US\$/bbl	27.72	
LPG	Baht/litre	9.90	
NAPHTHA	-	-	
MOGAS	Baht/litre	7.60	
JET FUEL	Baht/litre	-	
KEROSENE	-	7.61	
DIESEL OIL	Baht/litre	7.74	
FUEL OIL	Baht/litre	6.22	
NATURAL GAS (LNG)	US\$/1,000 scf	2.88	
<b>WHOLESALE PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
NAPHTHA			
MOGAS	Baht/litre	13.07	
JET FUEL			
KEROSENE	Baht/litre	11.93	
DIESEL OIL	Baht/litre	11.54	
FUEL OIL	Baht/litre	7.23	
LPG	Baht/litre	10.35	
ELECTRICITY (INDUSTRY)			
ELECTRICITY (COMMERCIAL)			
<b>CONSUMER PRICES</b>			
COAL			
STEAM COAL			
NATURAL GAS			
TOWN GAS			
PETROLEUM PRODUCTS			
MOGAS	Baht/litre	14.79	
KEROSENE	Baht/litre	15.63	
DIESEL OIL	Baht/litre	12.99	
LPG	Baht/litre	13.60	
ELECTRICITY (RESIDENTIAL)	Baht/kWh	2.69	
ELECTRICITY (INDUSTRY)	Baht/kWh	2.43	
ELECTRICITY (COMMERCIAL)	Baht/kWh	2.42	

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

Natural Gas ( or LNG)		Unit: Mft <sup>3</sup>			
		Production	Imports	Exports	Stock Changes
2003	JAN.	61,316	24,696	-	-
	FEB.	64,972	25,105	-	-
	MAR.	63,789	23,980	-	-
	<b>1st quarter</b>	190,077	73,781	-	-
	APR.	61,316	24,696	-	-
	MAY.	64,972	25,105	-	-
	JUN.	63,789	23,980	-	-
	<b>2nd quarter</b>	190,077	73,781	-	-
	JUL.	65,207	24,779	-	-
	AUG.	66,518	24,725	-	-
	SEP.	62,358	24,034	-	-
	<b>3rd quarter</b>	194,083	73,538	-	-
	OCT.	66,292	23,511	-	-
	NOV.	62,633	19,908	-	-
	DEC.	63,900	15,006	-	-
	<b>4th quarter</b>	192,825	58,426	-	-
	767,062	279,526	-	-	

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	9,845	9,106	739	-	0	115	23
	FEB.	10,362	9,546	816	-	0	175	21
	MAR.	9,788	9,159	629	-	0	224	45
	<b>1st quarter</b>	29,995	27,811	2,184	-	0	514	89
	APR.	9,845	9,106	739	-	0	115	23
	MAY.	10,362	9,546	816	-	0	175	21
	JUN.	9,788	9,159	629	-	0	224	45
	<b>2nd quarter</b>	29,995	27,811	2,184	-	0	514	89
	JUL.	9,813	9,359	454	-	0	237	22
	AUG.	10,015	9,547	468	-	0	260	20
	SEP.	9,637	9,296	341	-	0	290	19
	<b>3rd quarter</b>	29,465	28,202	1,263	-	1	787	61
	OCT.	9,968	9,576	388	-	4	299	13
	NOV.	10,264	9,649	613	-	1	222	14
	DEC.	9,173	8,606	565	-	1	182	18
	<b>4th quarter</b>	29,404	27,831	1,566	-	6	702	45
	118,859	111,655	7,197	-	8	2,517	284	

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.

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

Natural Gas ( or LNG)		Unit: Mft^3			
		Production	Imports	Exports	Stock Changes
2003	JAN.	61,316	24,696	-	-
	FEB.	64,972	25,105	-	-
	MAR.	63,789	23,980	-	-
	<b>1st quarter</b>	190,077	73,781	-	-
	APR.	61,316	24,696	-	-
	MAY.	64,972	25,105	-	-
	JUN.	63,789	23,980	-	-
	<b>2nd quarter</b>	190,077	73,781	-	-
	JUL.	65,207	24,779	-	-
	AUG.	66,518	24,725	-	-
	SEP.	62,358	24,034	-	-
	<b>3rd quarter</b>	194,083	73,538	-	-
	OCT.	66,292	23,511	-	-
	NOV.	62,633	19,908	-	-
	DEC.	63,900	15,006	-	-
	<b>4th quarter</b>	192,825	58,426	-	-
	767,062	279,526	-	-	

Electricity		Unit: GWh					Imports	Exports
		Gross Generation						
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	9,845	9,106	739	-	0	115	23
	FEB.	10,362	9,546	816	-	0	175	21
	MAR.	9,788	9,159	629	-	0	224	45
	<b>1st quarter</b>	29,995	27,811	2,184	-	0	514	89
	APR.	9,845	9,106	739	-	0	115	23
	MAY.	10,362	9,546	816	-	0	175	21
	JUN.	9,788	9,159	629	-	0	224	45
	<b>2nd quarter</b>	29,995	27,811	2,184	-	0	514	89
	JUL.	9,813	9,359	454	-	0	237	22
	AUG.	10,015	9,547	468	-	0	260	20
	SEP.	9,637	9,296	341	-	0	290	19
	<b>3rd quarter</b>	29,465	28,202	1,263	-	1	787	61
	OCT.	9,968	9,576	388	-	4	299	13
	NOV.	10,264	9,649	613	-	1	222	14
	DEC.	9,173	8,606	565	-	1	182	18
	<b>4th quarter</b>	29,404	27,831	1,566	-	6	702	45
	118,859	111,655	7,197	-	8	2,517	284	

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 2001

	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
<b>1 Indigenous Production</b>	566,010	-	305,879	59,494	-	-	-	-	-
<b>2 Import</b>	11,843	1,389	487,560	82,891	20,689	4,145	7,420	241	17,513
<b>3 Export</b>	-29,945	-635	-1,089	-46,101	-6,047	-	-1,456	-104	-6,072
<b>4 International Marine Bunkers</b>	-	-	-	-30,703	-	-	-	-	-
<b>5 Stock Changes</b>	-20,682	43	-5,302	-8,119	-1,055	45	321	-174	-3,693
<b>6 Total Primary Energy Supply</b>	527,226	798	787,048	57,463	13,587	4,190	6,285	-37	7,747
<b>7 Public Electricity</b>	-393,775	-	-18,226	-19,698	-	-	-	-	-2,943
<b>8 Autoproducers of Electricity</b>	-86,917	-	-11,493	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-812,399	821,710	365,202	7,630	76,670	3,621	188,049
<b>11 Coal Transformation</b>	-17,120	15,481	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-148	-49,361	-61	-	-	0	-149
<b>13 Discrepancy</b>	21,711	0	55,219	9,960	12,192	0	-67	-17	-2,599
<b>14 Total Final Energy Consumption</b>	51,125	16,279	-	820,073	390,921	11,819	82,887	3,567	190,106
<b>15 Industry Sector</b>	48,708	16,279	-	144,052	3,688	11,819	-	297	27,791
<b>16 Transport Sector</b>	-	-	-	623,610	386,095	-	82,887	-	130,300
<b>17 Other Sector</b>	2,359	-	-	52,410	1,138	-	-	3,270	32,015
<b>18 Agriculture</b>	-	-	-	-	-	-	-	-	-
<b>19 Residential &amp; Commercial</b>	2,359	-	-	52,410	1,138	-	-	3,270	32,015
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	-	-	-	-	-	-

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

Energy Balance Table of United States of America in 2001 (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	
-	59,494	-	-	457,410	-	17,886	200,328	12,468	6,070	-	-	1,625,547	
16,208	6,484	-	10,192	92,270	-	-	-	-	-	3,308	-	679,261	
-10,502	-1,375	-	-20,543	-8,517	-	-	-	-	-	-1,416	-	-87,702	
-30,703	-	-	-	-	-	-	-	-	-	-	-	-30,703	
-730	-3,312	-	478	-26,338	-	-	-	-	-	-	-	-60,398	
-25,727	61,291	-	-9,873	514,825	-	17,886	200,328	12,468	6,070	1,893	-	2,126,005	
-15,846	-	-	-910	-62,142	-	-16,336	-139,195	-142	-161	225,994	-	-423,682	
-	-	-	-	-98,428	-	-1,550	-61,133	-12,326	-5,908	96,966	-	-180,789	
-	-	-	-	-	-	-	-	-	-	-	-	-	
39,586	13,416	35,110	92,425	-	-	-	-	-	-	-	-	9,310	
-	-	-	-	-	-	-	-	-	-	-	-	-1,639	
-953	-427	-33,930	-13,840	-	-	-	-	-	-	-	-	-49,509	
29,968	-10,141	-1,179	-18,197	37,961	-	0	0	0	0	-42,836	-	82,015	
27,028	64,139	-	49,605	392,215	-	-	-	-	-	282,018	-	1,561,710	
4,944	49,956	-	45,557	201,489	-	-	-	-	-	85,465	-	495,992	
19,997	284	-	4,047	8,086	-	-	-	-	-	-	-	631,696	
2,088	13,899	-	-	182,641	-	-	-	-	-	196,552	-	433,963	
-	-	-	-	-	-	-	-	-	-	-	-	-	
2,088	13,899	-	-	182,641	-	-	-	-	-	196,552	-	433,963	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	

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	1983	1984	1985	1986	1987	1988	1989	1990
<b>Total</b>									
Primary Energy Supply	1,748,648	1,610,504	1,678,841	1,695,539	1,703,546	1,769,109	1,849,109	1,874,994	1,863,574
Indigenous Production	1,481,448	1,392,459	1,506,289	1,488,872	1,475,906	1,497,002	1,529,371	1,522,808	1,561,430
Import	376,915	280,151	298,407	281,249	337,625	367,850	412,762	447,910	448,937
Export	-88,326	-88,024	-90,451	-100,219	-96,074	-91,150	-104,438	-111,569	-114,107
Final Energy Consumption	1,434,285	1,280,046	1,359,168	1,344,865	1,349,051	1,397,783	1,461,536	1,476,794	1,475,248
Industry	594,201	481,313	527,861	510,870	498,607	523,288	546,521	549,767	563,738
Transport	470,315	457,068	472,916	479,219	497,012	512,118	532,446	538,492	537,741
Residential & Commercial	356,887	341,665	355,268	352,692	352,094	360,844	381,080	387,151	371,408
Agriculture	-	-	-	-	-	-	-	-	-
<b>Coal, Coal Products</b>									
Primary Energy Supply	371,742	382,254	405,989	420,402	412,486	430,511	451,331	457,107	459,408
Indigenous Production	445,217	412,878	472,081	462,644	467,071	482,191	496,446	511,002	537,598
Import	1,105	781	1,115	1,512	1,519	1,593	2,873	3,079	2,070
Export	-59,177	-49,345	-52,122	-59,036	-54,425	-50,446	-60,476	-63,783	-66,707
Transformation Sector	-305,433	-324,673	-345,429	-357,410	-352,870	-370,837	-389,224	-391,911	-395,279
Power Generation	-290,071	-316,237	-335,330	-348,402	-344,985	-362,743	-379,535	-382,572	-386,734
Final Energy Consumption	113,084	82,087	90,786	87,668	82,477	84,282	89,539	87,390	86,214
Industry	100,038	77,481	85,793	83,451	78,265	80,408	85,515	83,898	82,490
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	3,482	4,606	4,993	4,217	4,212	3,874	4,023	3,492	3,724
Agriculture	-	-	-	-	-	-	-	-	-
<b>Crude Oil</b>									
Primary Energy Supply	741,462	642,686	664,085	660,377	696,112	703,367	724,268	727,351	727,371
Indigenous Production	490,831	492,587	505,661	508,322	491,368	476,162	467,758	437,509	424,837
Import	268,423	170,070	176,677	165,089	216,427	241,433	264,452	301,867	305,996
Export	-14,570	-8,324	-9,303	-10,415	-7,902	-7,711	-7,961	-7,424	-5,571
Transformation Sector	-701,883	-629,541	-655,343	-654,690	-690,815	-696,757	-718,765	-725,380	-729,530
Petroleum Refineries	-701,883	-629,541	-655,343	-654,690	-690,815	-696,757	-718,765	-725,380	-729,530
<b>Petroleum Products</b>									
Primary Energy Supply	66,318	65,232	65,023	66,982	61,608	70,892	80,296	78,717	58,721
Import	82,411	84,648	97,771	89,121	99,212	97,849	112,698	109,262	103,769
Export	-13,107	-28,816	-27,552	-29,075	-31,933	-31,249	-33,693	-36,592	-38,090
Transformation Sector	652,021	599,377	633,600	639,590	668,471	677,406	690,866	692,891	709,230
Power Generation	-62,925	-36,767	-30,608	-25,939	-34,532	-29,839	-37,133	-39,972	-29,344
Petroleum Refineries	714,946	636,144	664,208	665,529	703,003	707,244	728,000	732,863	738,574
Final Energy Consumption	759,089	682,645	715,296	715,868	737,327	758,716	783,753	780,782	775,668
Industry	228,529	177,511	191,554	186,609	189,767	195,440	202,058	195,286	199,087
Transport	455,308	445,335	460,261	467,112	485,358	499,655	517,776	523,433	521,973
Residential & Commercial	72,669	59,799	60,694	60,386	61,173	62,087	62,431	60,679	52,248
Agriculture	-	-	-	-	-	-	-	-	-
<b>Natural Gas, Town Gas</b>									
Primary Energy Supply	473,432	406,639	420,208	411,471	387,933	410,349	424,453	441,357	435,353
Indigenous Production	451,504	376,338	408,420	385,115	375,145	388,640	399,136	404,776	416,445
Import	22,826	21,329	19,216	21,583	16,969	22,488	29,402	31,458	35,169
Export	-1,120	-1,252	-1,254	-1,267	-1,401	-1,239	-1,700	-2,470	-1,976
Transformation Sector	-86,421	-67,997	-73,035	-71,663	-61,028	-66,567	-61,449	-65,106	-65,366
Power Generation	-86,421	-67,997	-73,035	-71,663	-61,028	-66,567	-61,449	-65,106	-65,366
Final Energy Consumption	376,869	325,590	346,986	333,225	318,143	335,944	359,260	374,456	372,100
Industry	190,395	154,818	168,913	160,580	151,732	166,087	174,549	184,406	192,829
Transport	14,739	11,459	12,352	11,780	11,320	12,140	14,327	14,715	15,414
Residential & Commercial	171,000	159,312	165,385	160,543	154,783	157,717	170,384	175,335	163,857
Agriculture	-	-	-	-	-	-	-	-	-
<b>Electricity</b>									
Power Generation	196,478	198,527	207,638	212,238	213,740	221,028	232,382	239,261	241,310
Thermal	150,895	144,463	151,597	154,814	152,873	160,152	167,639	170,694	167,381
Hydro	23,991	28,812	27,869	24,431	25,264	21,728	19,429	23,049	24,326
Nuclear	21,593	25,253	28,172	32,993	35,602	39,148	45,313	45,518	49,603
Final Energy Consumption	180,358	185,216	196,810	200,093	203,943	211,554	221,940	227,851	233,232
Industry	70,353	66,994	72,311	72,219	71,683	74,065	77,355	79,862	81,298
Transport	268	275	303	327	334	323	343	343	355
Residential & Commercial	109,736	117,947	124,196	127,546	131,926	137,166	144,242	147,645	151,579
Agriculture	-	-	-	-	-	-	-	-	-

## Major Energy Indicators of United States of America (Continued)

											ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1,871,047	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
1,552,778	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
437,462	461,802	505,942	531,728	527,118	536,293	570,303	604,681	620,371	661,551	679,261	659,732
-123,363	-118,390	-102,032	-97,306	-107,839	-108,822	-105,866	-98,699	-86,545	-92,948	-87,702	-83,631
1,462,664	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
556,413	566,646	566,070	543,727	551,202	526,456	531,324	517,410	525,792	539,470	495,992	503,340
523,377	536,564	545,832	562,750	574,575	574,819	582,682	597,969	615,407	628,790	631,696	635,175
382,661	399,632	415,719	414,007	424,786	421,523	418,354	406,426	418,624	439,459	433,963	440,213
-	-	-	-	-	-	-	-	-	-	-	-
450,925	457,224	469,525	476,729	476,194	500,208	516,418	513,147	511,477	533,726	528,024	531,733
516,950	516,936	484,311	528,307	526,162	542,128	557,092	566,515	552,594	536,907	566,010	543,860
2,681	3,309	5,285	5,496	5,388	6,366	6,344	7,497	7,354	9,734	13,232	11,938
-68,755	-64,586	-47,476	-45,370	-55,941	-56,946	-52,627	-49,042	-36,602	-36,795	-30,579	-24,767
-388,479	-392,566	-408,175	-415,782	-418,961	-455,566	-467,871	-474,828	-467,411	-486,798	-482,331	-485,820
-385,831	-392,672	-408,067	-401,637	-404,326	-453,573	-465,973	-473,056	-465,644	-484,979	-480,692	-483,995
76,781	81,178	77,934	68,151	66,816	79,137	78,173	73,463	71,516	72,317	67,404	66,816
73,409	79,041	76,572	66,476	65,270	75,667	74,457	70,635	68,681	69,899	64,986	64,385
-	-	-	-	-	-	-	-	-	-	-	-
3,372	2,137	1,362	1,675	1,546	3,433	3,695	2,776	2,789	2,351	2,359	2,372
-	-	-	-	-	-	-	-	-	-	-	-
686,395	704,273	714,062	727,055	731,608	736,225	760,513	779,227	760,166	783,860	787,048	776,502
388,894	390,754	368,976	363,851	355,444	341,507	338,995	328,562	309,705	307,711	305,879	302,727
301,448	318,281	354,426	368,862	376,105	393,961	429,736	454,472	456,290	475,268	487,560	476,283
-5,905	-4,544	-5,035	-5,043	-4,848	-5,631	-5,750	-5,917	-6,039	-2,689	-1,089	-471
-729,968	-736,915	-753,517	-754,667	-767,653	-789,598	-810,847	-833,523	-826,840	-835,439	-842,267	-838,838
-729,968	-736,195	-753,517	-754,667	-764,633	-767,523	-787,490	-799,795	-798,423	-810,384	-812,399	-808,710
85,563	95,623	96,856	106,097	101,102	47,766	37,401	40,845	68,374	66,978	57,463	58,569
89,904	88,005	88,507	92,064	75,820	64,077	61,056	66,184	69,826	84,612	82,891	75,418
-44,974	-43,505	-45,375	-42,532	-42,730	-42,462	-43,136	-38,935	-38,953	-46,629	-46,101	-45,467
703,615	715,843	728,156	726,558	746,428	708,615	725,533	731,367	735,063	752,986	752,650	749,962
-33,316	-28,579	-32,822	-34,933	-23,069	-17,299	-19,566	-27,774	-22,441	-18,555	-19,698	-19,872
736,931	744,422	760,978	761,491	769,497	775,900	794,788	808,767	806,756	821,262	821,710	819,170
753,645	765,814	769,517	787,721	795,821	774,825	787,579	791,397	814,211	829,915	820,073	825,623
192,893	192,448	186,814	191,787	187,811	155,487	162,105	154,291	156,580	156,750	144,052	147,553
508,966	522,477	531,249	546,415	557,870	566,069	573,992	589,752	607,223	620,297	623,610	627,013
51,573	50,889	51,332	49,519	49,704	53,269	51,482	47,354	50,408	52,868	52,410	51,057
-	-	-	-	-	-	-	-	-	-	-	-
454,916	463,961	478,232	488,522	506,252	502,713	505,023	499,393	520,732	547,504	514,825	535,341
413,421	416,740	427,489	438,806	433,200	438,293	439,415	442,233	437,786	445,916	457,410	442,772
40,781	49,011	54,366	60,817	65,787	68,152	69,469	73,132	83,188	87,738	92,270	92,979
-2,996	-4,993	-3,230	-3,709	-3,534	-3,500	-3,582	-3,628	-3,728	-5,561	-8,517	-11,778
-101,440	-107,483	-109,473	-119,665	-128,358	-119,826	-120,288	-137,052	-132,992	-146,438	-160,570	-141,716
-101,440	-107,483	-109,473	-119,665	-128,358	-119,826	-120,288	-137,052	-132,992	-146,438	-160,570	-141,716
379,879	348,581	364,146	363,494	374,048	410,587	404,989	385,296	398,572	420,871	392,215	395,903
195,485	159,614	165,550	166,049	174,101	206,399	205,514	202,117	209,563	221,338	201,489	203,383
14,060	13,742	14,229	15,994	16,374	8,750	8,689	8,217	8,183	8,493	8,086	8,162
170,334	175,214	183,297	180,735	183,573	195,439	190,785	174,962	180,826	191,041	182,641	184,358
-	-	-	-	-	-	-	-	-	-	-	-
264,105	265,802	275,644	280,618	289,623	296,247	300,304	310,929	318,376	326,574	322,960	331,606
187,486	191,193	199,394	203,467	205,216	208,639	215,753	225,598	228,828	238,283	238,966	242,568
23,947	21,397	23,766	22,077	26,503	29,591	30,497	27,402	26,929	23,466	17,886	21,963
52,672	53,212	52,483	55,074	57,903	58,017	54,055	57,929	62,620	64,824	66,108	67,075
237,480	246,383	254,846	262,012	269,656	258,287	261,640	271,700	275,569	284,683	282,018	290,445
81,388	92,422	93,274	96,362	97,643	88,904	89,248	90,366	90,968	91,484	85,465	88,019
351	344	353	341	331	-	-	-	-	-	-	-
155,741	153,618	161,219	165,309	171,682	169,383	172,392	181,334	184,601	193,199	196,552	202,426
-	-	-	-	-	-	-	-	-	-	-	-

## Major Economic Indicators of United States of America

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	227.23	233.79	235.83	237.92	240.13	242.29	244.50	246.82
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	4,771.90	4,995.40	5,359.00	5,563.50	5,751.20	5,944.50	6,191.80	6,408.70
Real Term (Billions of 1995 Price and 1995 PPP)	4,790.30	5,014.66	5,379.67	5,584.96	5,773.38	5,967.42	6,215.68	6,433.42
Nominal (Billions of Current USD)	2,771.50	3,502.00	3,896.60	4,174.90	4,411.80	4,698.90	5,061.90	5,439.70
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	21,001	21,367	22,724	23,384	23,950	24,535	25,324	25,965
Real Term (1995 Price and 1995 PPP)	21,082	21,449	22,812	23,474	24,042	24,629	25,422	26,065
Nominal (Current USD)	12,197	14,979	16,523	17,547	18,372	19,394	20,703	22,039
Nominal GDP & its Components (Billions of Current USD) *1								
Gross Domestic Product	2,771.50	3,502.00	3,896.60	4,174.90	4,411.80	4,698.90	5,061.90	5,439.70
Household Final Consumption Expenditure, etc.	1,762.90	2,286.40	2,498.40	2,712.60	2,895.20	3,105.30	3,356.60	3,596.70
General Government Final Consumption Expenditure	466.20	615.50	672.40	733.90	782.70	834.20	870.60	914.60
Gross Fixed Capital Formation	560.80	652.10	761.90	817.30	852.50	874.00	929.30	981.90
Stock Change	-4.30	-0.60	65.70	25.30	13.20	27.40	11.70	27.20
Exports of Goods and Services	279.70	277.20	303.20	303.10	320.40	365.70	447.00	509.00
Imports of Goods and Services	293.80	328.60	405.10	417.20	452.20	507.90	553.20	589.70
Real GDP & its Components (Billions of 1995 USD) *1								
Gross Domestic Product	4,771.90	4,995.40	5,359.00	5,563.50	5,751.20	5,944.50	6,191.80	6,408.70
Household Final Consumption Expenditure, etc.	3,125.90	3,381.70	3,564.10	3,740.60	3,897.50	4,027.00	4,189.50	4,301.40
General Government Final Consumption Expenditure	841.80	909.10	937.00	988.20	1,034.80	1,070.10	1,084.70	1,100.70
Gross Fixed Capital Formation	781.00	786.20	1,003.40	1,007.50	1,009.20	1,029.00	1,046.00	1,097.30
Stock Change	-9.80	-8.10	81.70	31.60	15.50	30.40	12.00	31.70
Exports of Goods and Services	340.10	311.10	337.10	346.10	371.60	413.30	479.70	536.30
Imports of Goods and Services	330.80	377.50	469.40	499.70	541.70	574.50	596.40	619.90
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	1.6	1.5	1.7	1.9	1.8	1.8	1.6	1.6
Industry	26.7	24.9	25.4	25.4	24.5	25.2	25.9	24.9
Services, etc.	67.7	68.8	67.9	67.5	67.5	67.1	67.4	67.2
Industrial Production Index (2000=100) *2	54.2	53.5	58.3	59.0	59.6	62.7	65.8	66.3
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	225.566	205.639	223.976	218.815	227.158	254.122	322.427	363.812
Imports, c.i.f.	256.984	269.878	346.364	352.463	382.295	424.442	459.542	492.922
Balance of Payments (Billions of Current USD) *2								
Trade Balance	-25.510	-67.090	-112.480	-122.180	-144.641	-159.239	-126.609	-117.040
Current Account	2.150	-44.217	-99.007	-124.470	-147.172	-160.653	-121.253	-99.500
Overall Balance	6.990	1.196	3.126	3.835	-0.310	-9.147	3.915	25.288
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	0.9975	0.9941	1.0013	1.0002	0.9906	0.9992	1.0090	0.9977
Price Indices								
GDP Deflator (1995=100) *3	58.1	70.1	72.7	75.0	76.7	79.0	81.8	84.9
Wholesale Price Index (2000=100) *2	67.7	76.3	78.1	77.7	75.5	77.5	80.6	84.6
Consumer Price Index (2000=100) *2	47.9	57.8	60.3	62.5	63.6	66.0	68.7	72.0
Growth Rate (%) *3								
Real GDP	-0.24	4.33	7.28	3.82	3.37	3.36	4.16	3.50
Population	0.96	0.92	0.87	0.89	0.93	0.90	0.91	0.95
Price								
Wholesale Price Index	14.1	1.3	2.4	-0.5	-2.9	2.6	4.0	5.0
Consumer Price Index	13.5	3.2	4.3	3.6	1.9	3.7	4.0	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"

: USD shows United States Dollar

: PPP shows Purchasing Power Parity

## Major Economic Indicators of United States of America (Continued)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
249.44	252.21	255.12	258.19	261.41	264.80	268.22	271.67	275.16	278.67	282.22	285.32	288.37
6,520.50	6,488.10	6,686.90	6,865.60	7,145.50	7,338.40	7,603.00	7,943.00	8,285.90	8,629.10	8,955.10	8,977.80	9,196.40
6,545.65	6,513.12	6,712.69	6,892.08	7,173.06	7,366.70	7,632.32	7,973.63	8,317.85	8,662.38	8,989.64	9,012.42	9,231.87
5,750.80	5,930.70	6,261.80	6,582.90	6,993.30	7,338.40	7,751.10	8,256.50	8,720.20	9,212.80	9,762.10	10,019.70	10,383.10
26,141	25,725	26,211	26,592	27,334	27,713	28,346	29,237	30,113	30,965	31,730	31,466	31,891
26,241	25,825	26,312	26,694	27,440	27,820	28,455	29,350	30,229	31,084	31,853	31,587	32,014
23,055	23,515	24,545	25,497	26,752	27,713	28,898	30,391	31,692	33,059	34,590	35,118	36,006
5,750.80	5,930.70	6,261.80	6,582.90	6,993.30	7,338.40	7,751.10	8,256.50	8,720.20	9,212.80	9,762.10	10,019.70	10,383.10
3,831.50	3,971.20	4,209.70	4,454.70	4,716.40	4,969.00	5,237.50	5,529.30	5,856.00	6,246.50	6,683.70	6,987.00	7,303.70
978.80	1,021.60	1,050.20	1,066.30	1,094.00	1,123.50	1,163.30	1,208.30	1,247.70	1,325.20	1,420.70	1,512.40	1,615.80
998.80	958.50	1,014.30	1,100.40	1,207.50	1,297.10	1,409.60	1,545.20	1,694.70	1,830.90	1,959.30	1,928.20	1,882.00
13.10	-0.30	14.60	21.00	62.10	32.80	29.10	62.80	73.30	59.80	63.50	-59.30	4.90
557.20	602.00	637.80	659.10	725.50	818.80	874.70	966.70	965.20	989.60	1,101.40	1,034.40	1,015.20
628.60	622.30	664.60	718.50	812.10	902.80	963.10	1,055.80	1,116.70	1,239.20	1,466.60	1,383.00	1,438.50
6,520.50	6,488.10	6,686.90	6,865.60	7,145.50	7,338.40	7,603.00	7,943.00	8,285.90	8,629.10	8,955.10	8,977.80	9,196.40
4,380.50	4,372.80	4,497.90	4,649.10	4,824.60	4,969.00	5,127.40	5,309.90	5,564.30	5,839.20	6,093.10	6,243.20	6,438.10
1,129.70	1,137.50	1,137.90	1,125.60	1,125.20	1,123.50	1,131.50	1,146.40	1,164.20	1,200.80	1,236.10	1,283.90	1,346.00
1,077.50	1,001.60	1,079.70	1,156.20	1,297.50	1,329.90	1,440.40	1,613.60	1,789.80	1,900.30	2,005.60	1,818.00	1,849.70
16.60	-1.20	18.10	21.60	72.20	32.80	31.90	71.30	86.80	62.60	66.10	-66.00	6.20
583.20	621.60	660.40	682.50	742.70	818.80	885.90	994.40	1,015.60	1,049.90	1,152.00	1,090.20	1,073.20
643.80	640.50	683.00	745.20	834.40	902.80	980.70	1,114.80	1,245.90	1,381.60	1,564.10	1,519.30	1,578.30
1.6	1.7	1.8	1.7	1.7	1.5	1.5	1.6	1.6	1.8	1.8	1.8	N.A.
24.4	23.6	23.1	23.2	23.8	24.4	24.2	24.1	24.0	24.2	24.0	22.8	N.A.
67.4	68.2	67.8	67.3	66.5	66.5	67.0	67.4	68.2	68.4	69.5	70.9	N.A.
66.9	65.9	67.8	70.0	73.8	77.3	80.7	86.6	91.8	95.8	100.0	96.6	96.1
393.592	421.730	448.163	464.773	512.627	584.743	625.073	688.697	682.138	692.784	781.125	730.803	693.860
516.987	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	1,202.430
-110.270	-75.700	-95.127	-130.551	-163.781	-172.330	-189.100	-196.164	-244.736	-343.716	-449.784	-424.085	-479.405
-78.960	3.690	-47.999	-81.963	-118.062	-109.472	-120.170	-135.979	-209.532	-296.846	-413.442	-385.699	-473.943
2.233	-5.759	-3.927	1.376	-5.350	9.747	-6.667	1.012	6.731	-8.727	0.295	4.927	3.693
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.9967	0.9978	0.9938	0.9910	0.9911	0.9962	0.9951	0.9943	1.0002	1.0037	1.0125	1.0109	1.0073
88.2	91.4	93.6	95.9	97.9	100.0	101.9	103.9	105.2	106.8	109.0	111.6	112.9
87.6	87.8	88.3	89.6	90.8	94.0	96.2	96.1	93.8	94.5	100.0	101.1	98.8
75.9	79.1	81.5	83.9	86.1	88.5	91.1	93.2	94.7	96.7	100.0	102.8	104.5
1.74	-0.50	3.06	2.67	4.08	2.70	3.61	4.47	4.32	4.14	3.78	0.25	2.43
1.06	1.11	1.16	1.20	1.25	1.30	1.29	1.29	1.28	1.28	1.27	1.10	1.07
3.6	0.2	0.6	1.5	1.3	3.6	2.3	-0.1	-2.5	0.8	5.8	1.1	-2.3
5.4	4.2	3.0	3.0	2.6	2.8	2.9	2.3	1.6	2.2	3.4	2.8	1.6



## Original Table (Energy Demand and Supply) of United States of America in 2002

Year:2002

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	1,094,283.00	Mst	0.0197	TBtu/Mst	21,582.12	TBtu
HARD COAL	567,000.28	Mst	0.0200	TBtu/Mst	11,350.44	TBtu
STEAM COAL	565,689.71	Mst	0.0233	TBtu/Mst	13,168.31	TBtu
SUBBITUMINOUS COAL	444,716.96	Mst	0.0166	TBtu/Mst	7,371.45	TBtu
ANTHRACITE	1,310.57	Mst	0.0214	TBtu/Mst	28.10	TBtu
LIGNITE	82,088.35	Mst	0.0124	TBtu/Mst	1,014.26	TBtu
CRUDE OIL AND NGL/CONDENSATE	2,206,497.00	Mb	0.0054	TBtu/Mb	12,013.16	TBtu
CRUDE OIL	2,097,124.00	Mb	0.0054	TBtu/Mb	11,417.69	TBtu
NGL/CONDENSATE	109,373.00	Mb	0.0054	TBtu/Mb	595.48	TBtu
LPG	576,915.00	Mb	0.0041	TBtu/Mb	2,389.58	TBtu
NATURAL GAS	19,046.72	Bcf	0.9225	TBtu/Bcf	17,570.60	TBtu
HYDRO POWER	255,586.00	MMkWh	0.0034	TBtu/MMkWh	871.55	TBtu
NUCLEAR POWER	780,064.00	MMkWh	0.0103	TBtu/MMkWh	8,065.86	TBtu
GEOHERMAL POWER	13,357.03	MMkWh	0.0341	TBtu/MMkWh	455.47	TBtu
WIND	10,506.11	MMkWh	0.0034	TBtu/MMkWh	35.83	TBtu
PHOTOVOLTAIC POWER	543.85	MMkWh	0.0034	TBtu/MMkWh	1.85	TBtu
OTHER POWER	68,979.85	MMkWh	0.0034	TBtu/MMkWh	235.22	TBtu
<b>TOTAL PRODUCTION</b>					63,221.26	TBtu
<b>OPENING STOCKS</b>						
COAL	181,911.69	Mst	0.0197	TBtu/Mst	3,586.45	TBtu
COKE	981.00	Mst	0.0236	TBtu/Mst	23.11	TBtu
CRUDE OIL AND NGL/CONDENSATE	869,593.00	Mb	0.0055	TBtu/Mb	4,785.67	TBtu
CRUDE OIL	862,221.00	Mb	0.0055	TBtu/Mb	4,745.10	TBtu
NGL/CONDENSATE	7,372.00	Mb	0.0055	TBtu/Mb	40.57	TBtu
LPG	120,900.00	Mb	0.0034	TBtu/Mb	415.32	TBtu
NAPHTHA	2,393.00	Mb	0.0050	TBtu/Mb	11.93	TBtu
MOGAS	161,459.00	Mb	0.0050	TBtu/Mb	799.29	TBtu
JET FUEL	41,953.00	Mb	0.0054	TBtu/Mb	225.98	TBtu
AVGAS	1,484.00	Mb	0.0054	TBtu/Mb	7.99	TBtu
KEROSENE	5,388.00	Mb	0.0054	TBtu/Mb	29.02	TBtu
DIESEL OIL	144,513.00	Mb	0.0055	TBtu/Mb	799.70	TBtu
FUEL OIL	41,047.00	Mb	0.0060	TBtu/Mb	245.16	TBtu
OTHER PETROLEUM PRODUCTS	48,235.00	Mb	0.0055	TBtu/Mb	264.03	TBtu
NATURAL GAS AND LNG	7,204.00	Bcf	0.9243	TBtu/Bcf	6,658.66	TBtu
NATURAL GAS	7,204.00	Bcf	0.9243	TBtu/Bcf	6,658.66	TBtu
<b>TOTAL OPENING STOCKS</b>					17,852.33	TBtu
<b>CLOSING STOCKS</b>						
COAL	180,948.70	Mst	0.0197	TBtu/Mst	3,567.47	TBtu
COKE	606.00	Mst	0.0236	TBtu/Mst	14.28	TBtu
CRUDE OIL AND NGL/CONDENSATE	884,282.00	Mb	0.0055	TBtu/Mb	4,866.51	TBtu
CRUDE OIL	876,705.00	Mb	0.0055	TBtu/Mb	4,824.81	TBtu
NGL/CONDENSATE	7,577.00	Mb	0.0055	TBtu/Mb	41.70	TBtu
LPG	105,708.00	Mb	0.0034	TBtu/Mb	362.22	TBtu
NAPHTHA	2,389.00	Mb	0.0050	TBtu/Mb	11.91	TBtu
MOGAS	161,902.00	Mb	0.0049	TBtu/Mb	801.33	TBtu
JET FUEL	39,179.00	Mb	0.0054	TBtu/Mb	211.04	TBtu
AVGAS	1,386.00	Mb	0.0054	TBtu/Mb	7.47	TBtu
KEROSENE	5,463.00	Mb	0.0054	TBtu/Mb	29.43	TBtu
DIESEL OIL	134,085.00	Mb	0.0055	TBtu/Mb	741.99	TBtu
FUEL OIL	31,333.00	Mb	0.0060	TBtu/Mb	187.14	TBtu
OTHER PETROLEUM PRODUCTS	46,918.00	Mb	0.0055	TBtu/Mb	256.82	TBtu
NATURAL GAS AND LNG	6,715.00	Bcf	0.9225	TBtu/Bcf	6,194.59	TBtu
NATURAL GAS	6,715.00	Bcf	0.9225	TBtu/Bcf	6,194.59	TBtu
<b>TOTAL CLOSING STOCKS</b>					17,252.20	TBtu
<b>STOCK CHANGE</b>						
COAL	963.00	Mst	0.0197	TBtu/Mst	18.99	TBtu
COKE	375.00	Mst	0.0236	TBtu/Mst	8.84	TBtu
CRUDE OIL AND NGL/CONDENSATE	-14,689.00	Mb	0.0055	TBtu/Mb	-80.84	TBtu
CRUDE OIL	-14,484.00	Mb	0.0055	TBtu/Mb	-79.71	TBtu
NGL/CONDENSATE	-205.00	Mb	0.0055	TBtu/Mb	-1.13	TBtu
LPG	15,192.00	Mb	0.0034	TBtu/Mb	52.06	TBtu
NAPHTHA	4.00	Mb	0.0050	TBtu/Mb	0.02	TBtu
MOGAS	-443.00	Mb	0.0049	TBtu/Mb	-2.19	TBtu
JET FUEL	2,774.00	Mb	0.0054	TBtu/Mb	14.94	TBtu
AVGAS	98.00	Mb	0.0054	TBtu/Mb	0.53	TBtu
KEROSENE	-75.00	Mb	0.0054	TBtu/Mb	-0.40	TBtu
DIESEL OIL	10,428.00	Mb	0.0055	TBtu/Mb	57.71	TBtu
FUEL OIL	9,714.00	Mb	0.0060	TBtu/Mb	58.02	TBtu
OTHER PETROLEUM PRODUCTS	1,317.00	Mb	0.0055	TBtu/Mb	7.21	TBtu
NATURAL GAS AND LNG	489.00	Bcf	0.9225	TBtu/Bcf	451.10	TBtu
NATURAL GAS	489.00	Bcf	0.9225	TBtu/Bcf	451.10	TBtu
<b>TOTAL STOCK CHANGE</b>					585.97	TBtu
<b>IMPORTS</b>						
COAL	16,875.43	Mst	0.0238	TBtu/Mst	400.79	TBtu
COKE	3,096.40	Mst	0.0236	TBtu/Mst	72.95	TBtu
CRUDE OIL AND NGL/CONDENSATE	3,342,045.00	Mb	0.0057	TBtu/Mb	18,900.43	TBtu
CRUDE OIL	3,336,175.00	Mb	0.0057	TBtu/Mb	18,867.24	TBtu
NGL/CONDENSATE	5,870.00	Mb	0.0057	TBtu/Mb	33.20	TBtu
LPG	66,617.00	Mb	0.0034	TBtu/Mb	228.27	TBtu

Original Table (Energy Demand and Supply) of United States of America in 2002 (Continued)

Year:2002

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
NAPHTHA	22,998.00	Mb	0.0050	TBtu/Mb	114.66	TBtu
MOGAS	181,894.00	Mb	0.0049	TBtu/Mb	900.28	TBtu
JET FUEL	39,225.00	Mb	0.0054	TBtu/Mb	211.29	TBtu
AVGAS	231.00	Mb	0.0054	TBtu/Mb	1.24	TBtu
KEROSENE	1,883.00	Mb	0.0054	TBtu/Mb	10.14	TBtu
DIESEL OIL	97,603.00	Mb	0.0055	TBtu/Mb	540.11	TBtu
FUEL OIL	90,896.00	Mb	0.0060	TBtu/Mb	542.89	TBtu
OTHER PETROLEUM PRODUCTS	79,420.00	Mb	0.0056	TBtu/Mb	443.94	TBtu
NATURAL GAS AND LNG	4,007.52	Bcf	0.9207	TBtu/Bcf	3,689.72	TBtu
NATURAL GAS	4,007.52	Bcf	0.9207	TBtu/Bcf	3,689.72	TBtu
ELECTRICITY	36,229.13	MMkWh	0.0034	TBtu/MMkWh	123.54	TBtu
TOTAL IMPORTS					26,180.27	TBtu
<b>EXPORTS</b>						
COAL	39,601.24	Mst	0.0245	TBtu/Mst	968.83	TBtu
HARD COAL	39,601.24	Mst	0.0245	TBtu/Mst	968.83	TBtu
STEAM COAL	18,066.15	Mst	0.0233	TBtu/Mst	420.55	TBtu
COKING COAL	21,535.09	Mst	0.0255	TBtu/Mst	548.28	TBtu
COKE	593.86	Mst	0.0236	TBtu/Mst	13.99	TBtu
CRUDE OIL AND NGL/CONDENSATE	3,434.00	Mb	0.0054	TBtu/Mb	18.67	TBtu
CRUDE OIL	3,296.00	Mb	0.0054	TBtu/Mb	17.92	TBtu
NGL/CONDENSATE	138.00	Mb	0.0054	TBtu/Mb	0.75	TBtu
LPG	24,306.00	Mb	0.0034	TBtu/Mb	83.29	TBtu
NAPHTHA		Mb	0.0052	TBtu/Mb		TBtu
MOGAS	45,315.00	Mb	0.0049	TBtu/Mb	224.29	TBtu
JET FUEL	5,600.00	Mb	0.0054	TBtu/Mb	30.16	TBtu
KEROSENE	6,763.00	Mb	0.0054	TBtu/Mb	36.43	TBtu
DIESEL OIL	40,976.00	Mb	0.0055	TBtu/Mb	226.75	TBtu
FUEL OIL	64,698.00	Mb	0.0060	TBtu/Mb	386.42	TBtu
OTHER PETROLEUM PRODUCTS	144,021.00	Mb	0.0057	TBtu/Mb	816.95	TBtu
NATURAL GAS AND LNG	516.23	Bcf	0.9054	TBtu/Bcf	467.40	TBtu
NATURAL GAS	516.23	Bcf	0.9054	TBtu/Bcf	467.40	TBtu
ELECTRICITY	13,363.39	MMkWh	0.0034	TBtu/MMkWh	45.57	TBtu
TOTAL EXPORTS					3,318.75	TBtu
<b>INTERNATIONAL MARINE BUNKERS</b>	245,463.89	Mb	0.0059	TBtu/Mb	1,441.82	TBtu
<b>TOTAL PRIMARY ENERGY SUPPLY</b>					85,226.93	TBtu
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL	23,656.00	Mst	0.0261	TBtu/Mst	616.35	TBtu
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE	5,521,979.00	Mb	0.0055	TBtu/Mb	30,247.74	TBtu
CRUDE OIL	5,455,530.00	Mb	0.0055	TBtu/Mb	29,883.76	TBtu
NGL/CONDENSATE	66,449.00	Mb	0.0055	TBtu/Mb	363.99	TBtu
LPG	89,980.00	Mb	0.0034	TBtu/Mb	308.33	TBtu
OTHERS(FEED-STOCKS)	343,516.00	Mb	0.0054	TBtu/Mb	1,844.47	TBtu
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	767,803.00	Mst	0.0194	TBtu/Mst	14,880.75	TBtu
CRUDE OIL AND NGL/CONDENSATE	127,498.85	Mb	0.0057	TBtu/Mb	729.65	TBtu
DIESEL OIL	21,288.82	Mb	0.0055	TBtu/Mb	117.81	TBtu
FUEL OIL	106,210.04	Mb	0.0060	TBtu/Mb	634.36	TBtu
OTHER PETROLEUM PRODUCTS	1,430.49	Mst	0.0255	TBtu/Mst	36.42	TBtu
NATURAL GAS AND LNG	2,259,684.00	Mcf	0.0009	TBtu/Bcf	2,074.39	TBtu
NATURAL GAS	2,259,684.00	Mcf	0.0009	TBtu/Bcf	2,074.39	TBtu
HYDRO POWER	234,868.00	MMkWh	0.0034	TBtu/MMkWh	800.90	TBtu
NUCLEAR POWER	507,380.00	MMkWh	0.0103	TBtu/MMkWh	5,246.31	TBtu
GEOHERMAL POWER	152.00	MMkWh	0.0341	TBtu/MMkWh	5.18	TBtu
WIND	135.00	MMkWh	0.0034	TBtu/MMkWh	0.46	TBtu
OTHERS	3,488.00	MMkWh	0.0034	TBtu/MMkWh	11.89	TBtu
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
COAL	219,780.00	Mst	0.0197	TBtu/Mst	4,325.73	TBtu
HARD COAL	219,780.00	Mst	0.0197	TBtu/Mst	4,325.73	TBtu
COKING COAL	3,443.05	Mst	0.0255	TBtu/Mst	87.66	TBtu
CRUDE OIL AND NGL/CONDENSATE	80,396.73	Mb	0.0057	TBtu/Mb	460.09	TBtu
NATURAL GAS AND LNG	3,866,379.00	Mcf	0.0009	TBtu/Bcf	3,549.34	TBtu
NATURAL GAS	3,866,379.00	Mcf	0.0009	TBtu/Bcf	3,549.34	TBtu
HYDRO POWER	20,718.00	MMkWh	0.0034	TBtu/MMkWh	70.65	TBtu
NUCLEAR POWER	272,684.00	MMkWh	0.0103	TBtu/MMkWh	2,819.55	TBtu
GEOHERMAL POWER	13,205.03	MMkWh	0.0341	TBtu/MMkWh	450.29	TBtu
WIND	10,371.11	MMkWh	0.0034	TBtu/MMkWh	35.37	TBtu
PHOTOVOLTAIC POWER	543.85	MMkWh	0.0034	TBtu/TBtu	1.85	TBtu
OTHERS	65,491.85	MMkWh	0.0034	TBtu/MMkWh	223.33	TBtu
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE	23,088.28	Mst	0.0236	TBtu/Mst	543.96	TBtu
<b>GAS RECOVERING</b>						
<b>REFINING</b>						
REFINERY GAS	243,517.00	Mb	0.0057	TBtu/Mb	1,388.05	TBtu
LPG	244,900.00	Mb	0.0034	TBtu/Mb	839.19	TBtu
NAPHTHA	88,003.00	Mb	0.0050	TBtu/Mb	438.75	TBtu
MOGAS	2,986,747.00	Mb	0.0049	TBtu/Mb	14,782.90	TBtu
JET FUEL	552,583.00	Mb	0.0054	TBtu/Mb	2,976.49	TBtu

Original Table (Energy Demand and Supply) of United States of America in 2002 (Continued)

Year:2002

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
AVGAS	6,353.00	Mb	0.0054	TBtu/Mb	34.22	TBtu
KEROSENE	20,772.00	Mb	0.0054	TBtu/Mb	111.89	TBtu
DIESEL OIL	1,311,151.00	Mb	0.0055	TBtu/Mb	7,255.58	TBtu
FUEL OIL	219,445.00	Mb	0.0060	TBtu/Mb	1,310.67	TBtu
OTHER PETROLEUM PRODUCTS	631,149.00	Mb	0.0058	TBtu/Mb	3,677.89	TBtu
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	1,803,434.00	MMkWh	0.0034	TBtu/MMkWh	6,149.71	TBtu
COAL	1,514,670.00	MMkWh	0.0034	TBtu/MMkWh	5,165.02	TBtu
OIL	59,125.00	MMkWh	0.0034	TBtu/MMkWh	201.62	TBtu
GAS	229,639.00	MMkWh	0.0034	TBtu/MMkWh	783.07	TBtu
HYDRO POWER	234,868.00	MMkWh	0.0034	TBtu/MMkWh	800.90	TBtu
NUCLEAR POWER	507,380.00	MMkWh	0.0034	TBtu/MMkWh	1,730.17	TBtu
GEOHERMAL POWER	152.00	MMkWh	0.0034	TBtu/MMkWh	0.52	TBtu
WIND	135.00	MMkWh	0.0034	TBtu/MMkWh	0.46	TBtu
OTHER POWER	3,488.00	MMkWh	0.0034	TBtu/MMkWh	11.89	TBtu
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL	926,525.00	MMkWh	0.0034	TBtu/MMkWh	3,159.45	TBtu
COAL	418,460.00	MMkWh	0.0034	TBtu/MMkWh	1,426.95	TBtu
OIL	35,442.00	MMkWh	0.0034	TBtu/MMkWh	120.86	TBtu
GAS	472,623.00	MMkWh	0.0034	TBtu/MMkWh	1,611.64	TBtu
HYDRO POWER	20,718.00	MMkWh	0.0034	TBtu/MMkWh	70.65	TBtu
NUCLEAR POWER	272,684.00	MMkWh	0.0034	TBtu/MMkWh	929.85	TBtu
GEOHERMAL POWER	13,205.03	MMkWh	0.0034	TBtu/MMkWh	45.03	TBtu
WIND	10,371.11	MMkWh	0.0034	TBtu/MMkWh	35.37	TBtu
PHOTOVOLTAIC POWER	543.85	Mb	0.0034	TBtu/Mb	1.85	TBtu
OTHER POWER	65,491.85	MMkWh	0.0034	TBtu/MMkWh	223.33	TBtu
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
CRUDE OIL AND NGL/CONDENSATE	1,325.00	Mb	0.0044	TBtu/Mb	5.82	TBtu
NGL/CONDENSATE	1,325.00	Mb	0.0044	TBtu/Mb	5.82	TBtu
REFINERY GAS	243,517.00	Mb	0.0057	TBtu/Mb	1,388.05	TBtu
LPG	5,234.50	Mb	0.0034	TBtu/Mb	17.94	TBtu
MOGAS	565.50	Mb	0.0049	TBtu/Mb	2.80	TBtu
DIESEL OIL	1,049.50	Mb	0.0055	TBtu/Mb	5.81	TBtu
FUEL OIL	5,864.50	Mb	0.0060	TBtu/Mb	35.03	TBtu
OTHER PETROLEUM PRODUCTS	85,472.00	Mb	0.0059	TBtu/Mb	508.22	TBtu
TOTAL LOSSES AND OWN USE					1,963.65	TBtu
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	94,066.74	Mst	0.0217	TBtu/Mst	2,039.72	TBtu
COKE	25,965.83	Mst	0.0236	TBtu/Mst	611.75	TBtu
LPG	785,742.38	Mb	0.0034	TBtu/Mb	2,692.46	TBtu
NAPHTHA	111,005.00	Mb	0.0050	TBtu/Mb	553.43	TBtu
MOGAS	3,220,821.86	Mb	0.0049	TBtu/Mb	15,941.46	TBtu
JET FUEL	588,483.89	Mb	0.0054	TBtu/Mb	3,169.87	TBtu
AVGAS	6,695.52	Mb	0.0054	TBtu/Mb	36.07	TBtu
KEROSENE	15,743.32	Mb	0.0054	TBtu/Mb	84.80	TBtu
DIESEL OIL	1,338,151.04	Mb	0.0055	TBtu/Mb	7,404.99	TBtu
FUEL OIL	154,880.99	Mb	0.0060	TBtu/Mb	925.05	TBtu
OTHER PETROLEUM PRODUCTS	328,826.34	Mb	0.0059	TBtu/Mb	1,955.22	TBtu
NATURAL GAS AND LNG	17,013.98	Bcf	0.9234	TBtu/Bcf	15,710.71	TBtu
NATURAL GAS	17,013.98	Bcf	0.9234	TBtu/Bcf	15,710.71	TBtu
ELECTRICITY	3,378,013.03	MMkWh	0.0034	TBtu/MMkWh	11,525.78	TBtu
TOTAL					62,651.31	TBtu
<b>AGRICULTURE</b>						
TOTAL						TBtu
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	4,149.18	Mst	0.0227	TBtu/Mst	94.13	TBtu
LPG	170,276.36	Mb	0.0034	TBtu/Mb	583.48	TBtu
MOGAS	9,377.03	Mb	0.0049	TBtu/Mb	46.41	TBtu
KEROSENE	14,431.37	Mb	0.0054	TBtu/Mb	77.73	TBtu
DIESEL OIL	225,353.95	Mb	0.0055	TBtu/Mb	1,247.05	TBtu
FUEL OIL	11,962.35	Mb	0.0060	TBtu/Mb	71.45	TBtu
NATURAL GAS AND LNG	7,922.80	Bcf	0.9234	TBtu/Bcf	7,315.91	TBtu
NATURAL GAS	7,922.80	Bcf	0.9234	TBtu/Bcf	7,315.91	TBtu
ELECTRICITY	2,354,310.30	MMkWh	0.0034	TBtu/MMkWh	8,032.91	TBtu
TOTAL					17,469.07	TBtu
<b>OTHERS</b>						
TOTAL						TBtu
<b>INDUSTRY</b>						
COAL	89,917.56	Mst	0.0216	TBtu/Mst	1,943.26	TBtu
COKE	25,965.83	Mst	0.0236	TBtu/Mst	611.75	TBtu
LPG	611,990.99	Mb	0.0034	TBtu/Mb	2,097.08	TBtu
NAPHTHA	111,005.00	Mb	0.0050	TBtu/Mb	553.43	TBtu
MOGAS	30,381.57	Mb	0.0049	TBtu/Mb	150.37	TBtu
KEROSENE	1,311.94	Mb	0.0054	TBtu/Mb	7.07	TBtu
DIESEL OIL	195,617.26	Mb	0.0055	TBtu/Mb	1,082.50	TBtu
FUEL OIL	28,331.89	Mb	0.0060	TBtu/Mb	169.22	TBtu
OTHER PETROLEUM PRODUCTS	301,998.17	Mb	0.0059	TBtu/Mb	1,795.70	TBtu
NATURAL GAS AND LNG	8,740.42	Bcf	0.9234	TBtu/Bcf	8,070.90	TBtu
NATURAL GAS	8,740.42	Bcf	0.9234	TBtu/Bcf	8,070.90	TBtu
ELECTRICITY	1,023,702.73	MMkWh	0.0034	TBtu/MMkWh	3,492.87	TBtu

Original Table (Energy Demand and Supply) of United States of America in 2002 (Continued)

Year:2002

United States of America	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
TOTAL					19,974.14	TBtu
<b>TRANSPORT</b>						
LPG	3,475.03	Mb	0.0034	TBtu/Mb	11.91	TBtu
MOGAS	3,181,063.26	Mb	0.0049	TBtu/Mb	15,744.67	TBtu
JET FUEL	588,483.89	Mb	0.0054	TBtu/Mb	3,169.87	TBtu
AVGAS	6,695.52	Mb	0.0054	TBtu/Mb	36.07	TBtu
DIESEL OIL	917,179.83	Mb	0.0055	TBtu/Mb	5,075.44	TBtu
FUEL OIL	114,586.75	Mb	0.0060	TBtu/Mb	684.39	TBtu
OTHER PETROLEUM PRODUCTS	26,828.17	Mb	0.0059	TBtu/Mb	159.52	TBtu
NATURAL GAS AND LNG	350.76	Bcf	0.9234	TBtu/Mcf	323.89	TBtu
NATURAL GAS	350.76	Bcf	0.9234	TBtu/Mcf	323.89	TBtu
TOTAL					25,205.76	TBtu
<b>NON-ENERGY</b>						
TOTAL NON-ENERGY USE						TBtu

**ELECTRICITY GENERATING CAPACITY**At the time of 2002  
unit: MW

THERMAL POWER		
COAL		
OIL		
GAS		
HYDRO POWER		
NUCLEAR POWER		
GEOHERMAL POWER		
OTHERS (WIND, TIDE, PHOTVOLTAIC) /(31)		
OTHERS (BIOMASS, MUNICIPAL WASTE)		
COGENERATION		
COAL		
OIL		
GAS		
OTHERS (BIOMASS, MUNICIPAL WASTE)		

## REFINING CAPACITY

At the time of 2002

	Unit	
OPERATING RATE /(31)	%	
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	

Unit = thousand barrels per stream day

(\*1) crude throughput/distillation capacity

**NON-COMMERCIAL ENERGY TABLE**At the time of 2002  
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 United States of America in 2003

Coal		Unit: Thousand Short Tons			
		Production	Imports	Exports	Stock Changes
2003	JAN.	92,757	1,134	3,680	-13,673
	FEB.	82,228	1,804	2,428	-6,442
	MAR.	89,092	2,017	2,410	3,509
	<b>1st quarter</b>	264,077	4,955	8,518	-16,606
	APR.	88,935	2,390	3,571	10,183
	MAY.	90,169	2,109	3,875	309
	JUN.	88,089	1,894	4,003	-682
	<b>2nd quarter</b>	267,193	6,393	11,449	9,810
	JUL.	88,328	2,619	4,223	-11,499
	AUG.	89,380	2,133	4,164	-10,112
	SEP.	90,231	2,300	3,707	8,823
	<b>3rd quarter</b>	267,939	7,052	12,094	-12,788
	OCT.	93,542	2,545	3,997	4,947
	NOV.	83,794	2,358	3,737	2,118
	DEC.	91,665	1,742	3,219	-6,391
	<b>4th quarter</b>	269,001	6,645	10,952	674
		1,068,210	25,045	43,013	-18,910

Oil		Unit: 1000 bbl						
		Crude Oil				Petroleum Products		
		Production	Imports	Exports	Stock Change	Imports	Exports	Stock Changes
2003	JAN.	179,862	264,957	310	-4,588	76,291	37,262	-41,788
	FEB.	171,535	240,787	145	-2,639	71,340	30,798	-43,529
	MAR.	182,590	280,705	310	10,075	86,862	32,302	3,069
	<b>1st quarter</b>	533,987	786,449	765	2,848	234,493	100,362	-82,248
	APR.	174,390	294,210	360	9,990	79,170	31,230	12,600
	MAY.	179,273	312,418	465	-3,007	84,816	33,542	38,068
	JUN.	172,380	298,530	1,350	4,980	89,700	30,600	23,130
	<b>2nd quarter</b>	526,043	905,158	2,175	11,963	253,686	95,372	73,798
	JUL.	175,522	311,829	217	3,937	84,599	30,039	4,526
	AUG.	174,902	314,247	124	341	85,777	25,823	1,395
	SEP.	169,710	312,360	90	12,870	78,900	28,680	10,890
	<b>3rd quarter</b>	520,134	938,436	431	17,148	249,276	84,542	16,811
	OCT.	174,889	314,926	434	15,779	73,393	29,636	-4,185
	NOV.	169,103	284,360	630	-10,680	71,010	27,330	5,010
	DEC.	174,496	299,686	124	-7,595	72,645	30,566	-23,746
	<b>4th quarter</b>	518,488	898,972	1,188	-2,496	217,048	87,532	-22,921
		2,098,652	3,529,015	4,559	29,463	954,503	367,808	-14,560

Original Table (Quarterly) of United States of America in 2003 (Continued)

## Natural Gas ( or LNG)

Unit: Billion Cubit Feet

		Production	Imports	Exports	Stock Changes
2003	JAN.	1,683	346	56	841
	FEB.	1,501	297	56	676
	MAR.	1,685	313	52	136
	<b>1st quarter</b>	4,869	956	164	1,653
	APR.	1,595	294	49	-158
	MAY.	1,647	305	48	-412
	JUN.	1,602	283	51	-470
	<b>2nd quarter</b>	4,844	882	148	-1,040
	JUL.	1,619	344	59	-362
	AUG.	1,665	336	56	-309
	SEP.	1,594	323	63	-410
	<b>3rd quarter</b>	4,878	1,003	178	-1,081
	OCT.	1,606	332	53	-5
	NOV.	1,552	310	72	152
	DEC.	1,639	330	74	-217
	<b>4th quarter</b>	4,797	972	199	-70
		19,388	3,813	689	-538

## Electricity

Unit: GWh

		Gross Generation					Imports	Exports
		Total	Thermal	Hydro	Nuclear	Others		
2003	JAN.	337,504	242,562	18,954	69,211	6,777	2,795	1,311
	FEB.	296,735	210,644	18,856	60,942	6,293	2,898	1,667
	MAR.	303,087	211,814	23,552	59,933	7,788	2,589	2,854
	<b>1st quarter</b>	937,326	665,020	61,362	190,086	20,858	8,282	5,832
	APR.	282,721	193,899	24,448	56,776	7,598	2,523	1,723
	MAY.	304,550	205,878	29,309	62,194	7,169	2,623	2,328
	JUN.	324,042	224,739	27,720	64,181	7,402	2,787	2,383
	<b>2nd quarter</b>	911,313	624,516	81,477	183,151	22,169	7,933	6,434
	JUL.	371,782	270,570	23,926	69,653	7,633	3,909	1,099
	AUG.	377,929	279,423	22,019	69,024	7,463	3,519	1,401
	SEP.	325,399	236,485	17,874	63,494	7,546	1,673	2,204
	<b>3rd quarter</b>	1,075,110	786,478	63,819	202,171	22,642	9,100	4,705
	OCT.	304,711	219,402	17,676	60,016	7,617	722	2,732
	NOV.	298,165	211,006	19,018	59,600	8,541	1,248	2,145
	DEC.	328,938	225,993	23,721	71,354	7,870	2,135	2,102
	<b>4th quarter</b>	931,814	656,401	60,415	190,970	24,028	4,105	6,979
		3,855,563	2,732,415	267,073	766,378	89,697	29,420	23,950

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.



## 3.21 Viet Nam



## Energy Balance Table of Viet Nam in 2001

	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
<b>1 Indigenous Production</b>	7,259	-	17,046	-	-	-	-	-	-
<b>2 Import</b>	-	-	-	9,239	1,737	-	257	562	4,150
<b>3 Export</b>	-2,402	-	-17,033	-795	-111	-	-14	-35	-497
<b>4 International Marine Bunkers</b>	-	-	-	-	-	-	-	-	-
<b>5 Stock Changes</b>	168	-	-	-	-	-	-	-	-
<b>6 Total Primary Energy Supply</b>	5,024	-	13	8,444	1,626	-	243	527	3,653
<b>7 Public Electricity</b>	-1,281	-	-	-1,407	-	-	-	-	-448
<b>8 Autoproducers of Electricity</b>	-	-	-	-	-	-	-	-	-
<b>9 Gas Processing</b>	-	-	-	-	-	-	-	-	-
<b>10 Petroleum Refineries</b>	-	-	-	419	-	-	-	-	-
<b>11 Coal Transformation</b>	-	-	-	-	-	-	-	-	-
<b>12 Loss &amp; Own Use</b>	-	-	-13	-	-	-	-	-	-
<b>13 Discrepancy</b>	0	-	0	0	-	-	-	0	0
<b>14 Total Final Energy Consumption</b>	3,743	-	-	7,456	1,626	-	243	527	3,205
<b>15 Industry Sector</b>	2,807	-	-	1,533	-	-	-	13	601
<b>16 Transport Sector</b>	-	-	-	4,050	1,558	-	243	-	2,050
<b>17 Other Sector</b>	936	-	-	1,627	68	-	-	514	553
<b>18 Agriculture</b>	25	-	-	336	68	-	-	-	254
<b>19 Residential &amp; Commercial</b>	911	-	-	1,291	-	-	-	514	299
<b>20 Other</b>	-	-	-	-	-	-	-	-	-
<b>21 Non-energy</b>	-	-	-	246	-	-	-	-	-

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

Energy Balance Table of Viet Nam in 2001 (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
-	-	-	-	1,563	-	1,566	-	-	-	-	-	27,434
2,320	99	-	114	-	-	-	-	-	-	-	-	9,239
-137	-	-	-	-	-	-	-	-	-	-	-	-20,230
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	168
2,183	99	-	114	1,563	-	1,566	-	-	-	-	-	16,611
-959	-	-	-	-1,106	-	-1,566	-	-	-	2,632	-	-2,728
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	287	-	132	-442	-	-	-	-	-	-	-	-23
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-418	-	-431
0	0	-	0	0	-	-	-	-	-	0	-	0
1,223	386	-	246	15	-	-	-	-	-	2,214	-	13,428
862	57	-	-	15	-	-	-	-	-	903	-	5,259
198	-	-	-	-	-	-	-	-	-	25	-	4,075
163	330	-	-	-	-	-	-	-	-	1,286	-	3,849
14	-	-	-	-	-	-	-	-	-	40	-	401
149	330	-	-	-	-	-	-	-	-	1,246	-	3,448
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	246	-	-	-	-	-	-	-	-	246

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	1983	1984	1985	1986	1987	1988	1989	1990
Total									
Primary Energy Supply	-	-	-	-	-	-	-	-	5,414
Indigenous Production	-	-	-	-	-	-	-	-	5,811
Import	-	-	-	-	-	-	-	-	2,947
Export	-	-	-	-	-	-	-	-	-3,125
Final Energy Consumption	-	-	-	-	-	-	-	-	4,212
Industry	-	-	-	-	-	-	-	-	1,713
Transport	-	-	-	-	-	-	-	-	1,412
Residential & Commercial	-	-	-	-	-	-	-	-	815
Agriculture	-	-	-	-	-	-	-	-	244
Coal, Coal Products									
Primary Energy Supply	-	-	-	-	-	-	-	-	2,212
Indigenous Production	-	-	-	-	-	-	-	-	2,597
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-442
Transformation Sector	-	-	-	-	-	-	-	-	-888
Power Generation	-	-	-	-	-	-	-	-	-888
Final Energy Consumption	-	-	-	-	-	-	-	-	1,324
Industry	-	-	-	-	-	-	-	-	1,019
Transport	-	-	-	-	-	-	-	-	14
Residential & Commercial	-	-	-	-	-	-	-	-	226
Agriculture	-	-	-	-	-	-	-	-	64
Crude Oil									
Primary Energy Supply	-	-	-	-	-	-	-	-	-0
Indigenous Production	-	-	-	-	-	-	-	-	2,750
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-2,664
Transformation Sector	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Petroleum Products									
Primary Energy Supply	-	-	-	-	-	-	-	-	2,737
Import	-	-	-	-	-	-	-	-	2,947
Export	-	-	-	-	-	-	-	-	-19
Transformation Sector	-	-	-	-	-	-	-	-	-381
Power Generation	-	-	-	-	-	-	-	-	-381
Petroleum Refineries	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	2,356
Industry	-	-	-	-	-	-	-	-	449
Transport	-	-	-	-	-	-	-	-	1,393
Residential & Commercial	-	-	-	-	-	-	-	-	340
Agriculture	-	-	-	-	-	-	-	-	146
Natural Gas, Town Gas									
Primary Energy Supply	-	-	-	-	-	-	-	-	3
Indigenous Production	-	-	-	-	-	-	-	-	3
Import	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-
Transformation Sector	-	-	-	-	-	-	-	-	-3
Power Generation	-	-	-	-	-	-	-	-	-3
Final Energy Consumption	-	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-	-	-
Residential & Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Electricity									
Power Generation	-	-	-	-	-	-	-	-	746
Thermal	-	-	-	-	-	-	-	-	285
Hydro	-	-	-	-	-	-	-	-	462
Nuclear	-	-	-	-	-	-	-	-	-
Final Energy Consumption	-	-	-	-	-	-	-	-	532
Industry	-	-	-	-	-	-	-	-	245
Transport	-	-	-	-	-	-	-	-	5
Residential & Commercial	-	-	-	-	-	-	-	-	249
Agriculture	-	-	-	-	-	-	-	-	34

Major Energy Indicators of Viet Nam (Continued)

												ktoe
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
5,423	5,968	6,951	7,732	9,123	10,313	11,682	13,042	13,641	14,841	16,611	19,419	
7,492	9,038	10,423	11,237	13,562	15,777	18,157	21,151	23,359	25,777	27,434	30,213	
2,647	3,186	4,172	4,624	5,101	6,011	6,075	6,984	7,547	8,885	9,239	10,146	
-4,669	-6,453	-7,066	-8,232	-9,816	-11,495	-12,204	-14,770	-17,585	-18,650	-20,230	-20,939	
4,461	5,096	6,148	6,701	7,932	8,849	9,663	10,383	11,087	11,927	13,428	15,383	
1,886	2,029	2,189	2,281	3,099	3,365	3,956	4,179	4,302	4,653	5,259	6,001	
1,336	1,504	2,333	2,576	2,525	2,767	2,992	3,183	3,464	3,763	4,075	4,969	
971	1,006	1,207	1,417	1,688	2,073	2,145	2,462	2,626	2,973	3,448	3,778	
240	262	362	385	366	398	422	429	425	400	401	455	
2,138	2,143	2,073	2,291	3,314	3,579	4,544	4,577	4,227	4,372	5,024	5,517	
2,851	2,800	3,304	3,192	4,676	5,501	6,377	6,536	5,392	6,501	7,259	8,904	
-	-	-	-	-	-	-	-	-	-	-	-	
-657	-909	-802	-1,158	-1,580	-2,042	-1,934	-1,771	-1,826	-1,821	-2,402	-3,387	
-538	-374	-290	-468	-710	-886	-1,217	-1,275	-1,062	-1,150	-1,281	-1,500	
-538	-374	-290	-468	-710	-886	-1,217	-1,275	-1,062	-1,150	-1,281	-1,500	
1,600	1,770	1,782	1,823	2,603	2,692	3,327	3,302	3,166	3,223	3,743	4,017	
1,142	1,240	1,248	1,259	1,938	1,948	2,472	2,453	2,314	2,339	2,807	2,944	
23	21	14	11	2	-	-	-	-	-	-	-	
366	428	437	465	589	678	801	813	828	860	911	1,047	
69	81	84	87	76	67	54	36	24	24	25	25	
0	-0	-	-0	-	-0	0	0	-	20	13	-	
4,072	5,599	6,413	7,228	7,790	8,961	10,272	12,725	15,491	16,584	17,046	16,899	
-	-	-	-	-	-	-	-	-	-	-	-	
-3,988	-5,544	-6,264	-7,074	-7,790	-8,862	-9,811	-12,364	-15,150	-15,701	-17,033	-16,899	
-	-	-	-	-	-	-	-	-	-20	-13	-	
-	-	-	-	-	-	-	-	-	-	-	-	
2,717	3,186	4,172	4,624	4,713	5,420	5,630	6,576	6,938	7,757	8,444	9,493	
2,647	3,186	4,172	4,624	5,101	6,011	6,075	6,984	7,547	8,885	9,239	10,146	
-24	-	-	-	-446	-591	-459	-636	-609	-1,128	-795	-653	
-431	-470	-494	-560	-369	-434	-629	-1,039	-715	-997	-988	-732	
-431	-470	-494	-560	-369	-434	-629	-1,048	-967	-1,310	-1,407	-1,257	
-	-	-	-	-	-	-	10	252	313	419	525	
2,286	2,716	3,677	4,064	4,344	4,985	5,001	5,538	6,221	6,759	7,456	8,761	
470	499	628	666	743	923	934	1,125	1,318	1,515	1,533	1,947	
1,308	1,477	2,312	2,557	2,514	2,757	2,981	3,170	3,447	3,742	4,050	4,943	
344	300	440	540	583	771	615	770	834	1,026	1,291	1,305	
136	145	239	258	249	288	323	345	351	339	336	386	
25	17	21	23	186	282	506	935	1,292	1,440	1,563	2,845	
25	17	21	23	186	282	506	935	1,292	1,440	1,563	2,845	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-16	-3	-6	-6	-165	-261	-486	-916	-1,273	-1,422	-1,548	-2,826	
-16	-3	-6	-6	-165	-253	-479	-810	-924	-1,102	-1,106	-2,295	
9	15	14	16	22	21	20	19	19	18	15	19	
9	15	14	16	22	21	20	19	19	18	15	19	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
792	835	917	1,057	1,260	1,457	1,645	1,865	2,026	2,284	2,632	3,078	
249	213	232	262	350	425	643	911	841	1,033	1,066	1,513	
543	622	685	795	910	1,033	1,002	954	1,185	1,251	1,566	1,565	
-	-	-	-	-	-	-	-	-	-	-	-	
566	596	674	798	963	1,150	1,316	1,524	1,681	1,927	2,214	2,586	
265	275	299	339	397	473	530	583	651	782	903	1,091	
5	6	7	8	9	10	11	14	17	21	25	26	
261	278	330	412	516	624	729	879	964	1,088	1,246	1,426	
35	37	38	40	41	43	46	48	50	37	40	43	

## Major Economic Indicators of Viet Nam

	1980	1983	1984	1985	1986	1987	1988	1989
Population (Millions) *1	53.70	56.66	57.69	58.87	60.25	61.75	63.26	64.77
Gross Domestic Product *3								
Real Term (Billions of 1995 Price and 1995 USD)	N.A.	N.A.	10.66	11.07	11.38	11.78	12.39	13.30
Real Term (Billions of 1995 Price and 1995 PPP)	N.A.	N.A.	53.30	55.33	56.87	58.91	61.94	66.50
Nominal (Billions of Current USD)	N.A.	N.A.	N.A.	N.A.	26.34	36.66	25.42	6.29
GDP per Capita *3								
Real Term (1995 Price and 1995 USD)	N.A.	N.A.	185	188	189	191	196	205
Real Term (1995 Price and 1995 PPP)	N.A.	N.A.	924	940	944	954	979	1,027
Nominal (Current USD)	N.A.	N.A.	N.A.	N.A.	437	594	402	97
Nominal GDP & its Components (Billions of Current VND) *1								
Gross Domestic Product	N.A.	N.A.	N.A.	117	599.00	2,870	15,420	28,093
Household Final Consumption Expenditure, etc.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	24,645
General Government Final Consumption Expenditure	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2,204
Gross Fixed Capital Formation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3,699
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.	39.67	172.24	608.36	6,700
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	99.41	424.68	2,314	9,567
Real GDP & its Components (Billions of 1994 VND) *1								
Gross Domestic Product	N.A.	N.A.	100,551	104,378	107,289	111,134	116,841	125,445
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.	20,042
Imports of Goods and Services	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	31,930
Sectional Shares of Real GDP (%) *3								
Agriculture, Fishery and Forest	N.A.	N.A.	N.A.	35.3	35.4	33.7	33.3	33.2
Industry	N.A.	N.A.	N.A.	25.3	27.3	28.6	28.5	25.9
Services, etc.	N.A.	N.A.	N.A.	39.4	37.4	37.7	38.2	41.0
Industrial Production Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
External Trade (Billions of Current USD) *1								
Exports, f.o.b.	0.338	0.616	0.649	0.698	0.789	0.854	1.038	1.946
Imports, c.i.f.	1.314	1.526	1.745	1.857	2.155	2.455	2.756	2.565
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.	1.00	N.A.	N.A.	22.74	78.29	606.52	4,464
Purchasing Power Parity (VND/International Dollar) *1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	506
Price Indices								
GDP Deflator (1994=100) *3	N.A.	N.A.	N.A.	0.1	0.6	2.6	13.2	22.4
Wholesale Price Index (2000=100)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Consumer Price Index (2000=100)	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.	N.A.	3.81	2.79	3.58	5.14	7.36
Population	2.14	1.74	1.83	2.04	2.35	2.49	2.45	2.39
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)

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
66.20	67.61	68.99	70.35	71.68	72.98	74.30	75.46	76.52	77.52	78.52	79.49	80.42
13.98	14.81	16.09	17.39	18.93	20.74	22.67	24.52	25.93	27.17	29.02	31.02	33.20
69.89	74.05	80.46	86.95	94.64	103.67	113.35	122.59	129.66	135.85	145.07	155.07	165.99
6.47	7.64	9.87	13.18	16.28	20.74	24.66	26.84	27.21	28.68	31.17	32.69	35.09
211	219	233	247	264	284	305	325	339	351	370	390	413
1,056	1,095	1,166	1,236	1,320	1,420	1,526	1,625	1,694	1,753	1,847	1,951	2,064
98	113	143	187	227	284	332	356	356	370	397	411	436
41,955	76,707	110,532	140,258	178,534	228,892	272,036	313,623	361,017	399,942	441,646	481,295	536,098
35,559	62,755	88,943	106,440	133,299	168,492	202,509	225,084	255,921	274,553	293,507	312,144	348,060
5,177	6,204	6,371	10,279	14,738	18,741	22,722	25,500	27,523	27,137	28,346	30,463	33,390
N.A.	N.A.	N.A.	N.A.	43,325	58,187	71,597	83,734	97,551	102,799	122,101	140,301	160,840
N.A.	N.A.	N.A.	N.A.	2,158	3,944	4,853	5,020	7,324	7,704	8,670	9,732	11,155
15,120	23,714	38,405	40,286	60,725	75,106	111,177	135,180	161,910	199,836	243,049	262,864	297,546
18,996	27,639	42,921	52,582	77,591	95,925	141,016	160,706	188,281	211,254	253,927	274,085	319,017
131,844	139,703	151,782	164,035	178,534	195,567	213,833	231,265	244,596	256,272	273,666	292,535	313,135
N.A.	N.A.	N.A.	N.A.	133,299	142,917	155,909	165,125	172,498	176,976	182,420	190,457	204,113
N.A.	N.A.	N.A.	N.A.	14,738	15,976	17,163	17,850	18,425	17,374	18,245	19,450	20,496
N.A.	N.A.	N.A.	N.A.	43,325	49,715	56,678	62,438	70,187	71,294	78,552	86,972	96,160
N.A.	N.A.	N.A.	N.A.	2,158	3,534	4,148	4,091	4,744	4,536	4,944	5,515	6,096
22,632	29,390	36,641	39,985	60,725	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
30,495	28,556	33,923	48,110	77,591	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
31.9	30.7	30.2	28.9	27.4	26.2	25.1	24.2	23.7	23.8	23.3	22.4	21.8
25.2	25.6	26.6	27.7	28.9	29.9	31.3	32.6	33.4	34.4	35.4	36.6	37.4
42.9	43.7	43.2	43.4	43.7	43.8	43.6	43.2	42.9	41.9	41.3	41.0	40.8
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.
2.404	2.087	2.581	2.985	4.054	5.449	7.255	9.185	9.361	11.540	14.449	15.100	16.530
2.752	2.338	2.541	3.532	5.826	8.155	11.144	11.592	11.500	11.742	15.638	15.999	19.000
N.A.	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
6,483	10,037	11,202	10,641	10,966	11,038	11,033	11,683	13,268	13,943	14,168	14,725	15,280
644	1,085	1,433	1,636	1,900	2,208	2,342	2,443	2,626	2,751	2,783	2,774	2,892
31.8	54.9	72.8	85.5	100.0	117.0	127.2	135.6	147.6	156.1	161.4	164.5	171.2
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.	N.A.	N.A.	83.5	88.3	91.1	97.7	101.7	100.0	99.6	103.4
5.10	5.96	8.65	8.07	8.84	9.54	9.34	8.15	5.76	4.77	6.79	6.89	7.04
2.20	2.12	2.05	1.97	1.89	1.82	1.81	1.56	1.40	1.30	1.30	1.24	1.17
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.	5.7	3.2	7.3	4.1	-1.7	-0.4	3.8

## Original Table (Energy Demand and Supply) of Viet Nam in 2002

Year:2002

Viet Nam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
COAL	15,900.00	kt	0.5600	ktoe/kt	8,904.00	ktoe
CRUDE OIL AND NGL/CONDENSATE	16,600.00	kt	1.0180	ktoe/kt	16,898.80	ktoe
CRUDE OIL	16,600.00	kt	1.0180	ktoe/kt	16,898.80	ktoe
NATURAL GAS AND LNG	3,161.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	2,844.90	ktoe
NATURAL GAS	3,161.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	2,844.90	ktoe
HYDRO POWER	18,198.00	GWh	0.0860	ktoe/GWh	1,565.03	ktoe
TOTAL PRODUCTION					30,212.73	ktoe
<b>OPENING STOCKS</b>						
TOTAL OPENING STOCKS						ktoe
<b>CLOSING STOCKS</b>						
TOTAL CLOSING STOCKS						ktoe
<b>STOCK CHANGE</b>						
TOTAL STOCK CHANGE						ktoe
<b>IMPORTS</b>						
LPG	99.00	kt	1.0880	ktoe/kt	107.71	ktoe
MOGAS	2,123.00	kt	1.0500	ktoe/kt	2,229.15	ktoe
JET FUEL	275.00	kt	1.0320	ktoe/kt	283.80	ktoe
KEROSENE	411.00	kt	1.0320	ktoe/kt	424.15	ktoe
DIESEL OIL	4,437.00	kt	1.0150	ktoe/kt	4,503.56	ktoe
FUEL OIL	2,586.00	kt	0.9910	ktoe/kt	2,562.73	ktoe
OTHER PETROLEUM PRODUCTS	35.00	kt	0.9910	ktoe/kt	34.69	ktoe
TOTAL IMPORTS					10,145.78	ktoe
<b>EXPORTS</b>						
COAL	6,049.00	kt	0.5600	ktoe/kt	3,387.44	ktoe
CRUDE OIL AND NGL/CONDENSATE	16,600.00	kt	1.0180	ktoe/kt	16,898.80	ktoe
CRUDE OIL	16,600.00	kt	1.0180	ktoe/kt	16,898.80	ktoe
MOGAS	80.00	kt	1.0500	ktoe/kt	84.00	ktoe
KEROSENE	15.00	kt	1.0320	ktoe/kt	15.48	ktoe
DIESEL OIL	399.00	kt	1.0150	ktoe/kt	404.99	ktoe
FUEL OIL	150.00	kt	0.9910	ktoe/kt	148.65	ktoe
OTHER PETROLEUM PRODUCTS		kt		ktoe/kt		ktoe
TOTAL EXPORTS					20,939.36	ktoe
<b>INTERNATIONAL MARINE BUNKERS</b>						
TOTAL PRIMARY ENERGY SUPPLY					19,419.15	ktoe
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>REFINING</b>						
NATURAL GAS AND LNG	590.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	531.00	ktoe
NATURAL GAS	590.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	531.00	ktoe
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
COAL	2,678.00	kt	0.5600	ktoe/kt	1,499.68	ktoe
DIESEL OIL	383.08	kt	1.0150	ktoe/kt	388.83	ktoe
FUEL OIL	876.40	kt	0.9910	ktoe/kt	868.51	ktoe
NATURAL GAS AND LNG	2,550.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	2,295.00	ktoe
NATURAL GAS	2,550.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	2,295.00	ktoe
HYDRO POWER	18,198.00	GWh	0.0860	ktoe/GWh	1,565.03	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
<b>GAS RECOVERING</b>						
<b>REFINING</b>						
LPG	349.00	kt	1.0880	ktoe/kt	379.71	ktoe
OTHER PETROLEUM PRODUCTS	147.00	kt	0.9910	ktoe/kt	145.68	ktoe
<b>GAS PROCESSING</b>						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL	17,597.27	GWh	0.0860	ktoe/GWh	1,513.37	ktoe
COAL	4,877.62	GWh	0.0860	ktoe/GWh	419.48	ktoe
OIL	4,386.01	GWh	0.0860	ktoe/GWh	377.20	ktoe
GAS	8,333.64	GWh	0.0860	ktoe/GWh	716.69	ktoe
HYDRO POWER	18,197.68	GWh	0.0860	ktoe/GWh	1,565.00	ktoe
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						
ELECTRICITY	5,727.00	GWh	0.0860	ktoe/GWh	492.52	ktoe
TOTAL LOSSES AND OWN USE					492.52	ktoe
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
COAL	7,173.00	kt	0.5600	ktoe/kt	4,016.88	ktoe
LPG	448.00	kt	1.0880	ktoe/kt	487.42	ktoe
MOGAS	2,042.70	kt	1.0500	ktoe/kt	2,144.84	ktoe
JET FUEL	275.00	kt	1.0320	ktoe/kt	283.80	ktoe
KEROSENE	396.00	kt	1.0320	ktoe/kt	408.67	ktoe
DIESEL OIL	3,655.18	kt	1.0150	ktoe/kt	3,710.00	ktoe
FUEL OIL	1,559.92	kt	0.9910	ktoe/kt	1,545.88	ktoe
OTHER PETROLEUM PRODUCTS	182.00	kt	0.9910	ktoe/kt	180.36	ktoe
NATURAL GAS AND LNG	21.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	18.90	ktoe
ELECTRICITY	30,067.81	GWh	0.0860	ktoe/GWh	2,585.83	ktoe
TOTAL					15,382.58	ktoe
<b>AGRICULTURE</b>						
COAL	45.00	kt	0.5600	ktoe/kt	25.20	ktoe

Original Table (Energy Demand and Supply) of Viet Nam in 2002 (Continued)

Year:2002

Viet Nam	Physical Quantity		Conversion Factor		Thermal Quantity	
	A	Unit	B	Unit	A*B	Unit
MOGAS	78.00	kt	1.0500	ktoe/kt	81.90	ktoe
DIESEL OIL	285.18	kt	1.0150	ktoe/kt	289.45	ktoe
FUEL OIL	15.00	kt	0.9910	ktoe/kt	14.87	ktoe
ELECTRICITY	505.58	GWh	0.0860	ktoe/GWh	43.48	ktoe
<b>TOTAL</b>					454.90	ktoe
<b>RESIDENTIAL COMMERCIAL</b>						
COAL	1,870.00	kt	0.5600	ktoe/kt	1,047.20	ktoe
LPG	382.14	kt	1.0880	ktoe/kt	415.77	ktoe
KEROSENE	384.64	kt	1.0320	ktoe/kt	396.95	ktoe
DIESEL OIL	342.00	kt	1.0150	ktoe/kt	347.13	ktoe
FUEL OIL	146.42	kt	0.9910	ktoe/kt	145.10	ktoe
ELECTRICITY	16,581.00	GWh	0.0860	ktoe/GWh	1,425.97	ktoe
<b>TOTAL</b>					3,778.12	ktoe
<b>OTHERS</b>						
<b>TOTAL</b>						ktoe
<b>INDUSTRY</b>						
COAL	5,258.00	kt	0.5600	ktoe/kt	2,944.48	ktoe
LPG	65.86	kt	1.0880	ktoe/kt	71.65	ktoe
KEROSENE	11.36	kt	1.0320	ktoe/kt	11.72	ktoe
DIESEL OIL	685.00	kt	1.0150	ktoe/kt	695.28	ktoe
FUEL OIL	1,178.50	kt	0.9910	ktoe/kt	1,167.89	ktoe
NATURAL GAS AND LNG	21.00	Mm <sup>3</sup>	0.9000	ktoe/Mm <sup>3</sup>	18.90	ktoe
ELECTRICITY	12,681.23	GWh	0.0860	ktoe/GWh	1,090.59	ktoe
<b>TOTAL</b>					6,000.51	ktoe
<b>TRANSPORT</b>						
MOGAS	1,964.70	kt	1.0500	ktoe/kt	2,062.94	ktoe
JET FUEL	275.00	kt	1.0320	ktoe/kt	283.80	ktoe
DIESEL OIL	2,343.00	kt	1.0150	ktoe/kt	2,378.15	ktoe
FUEL OIL	220.00	kt	0.9910	ktoe/kt	218.02	ktoe
ELECTRICITY	300.00	GWh	0.0860	ktoe/GWh	25.80	ktoe
<b>TOTAL</b>					4,968.70	ktoe
<b>NON-ENERGY</b>						
OTHER PETROLEUM PRODUCTS	182.00	kt	0.9910	ktoe/kt	180.36	ktoe
<b>TOTAL NON-ENERGY USE</b>					180.36	ktoe



Original Table (Energy Demand and Supply) of Viet Nam in 2002 (Continued)

**ELECTRICITY GENERATING CAPACITY**

At the time of 2002  
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 2002

	Unit	
OPERATING RATE	%	
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	

**NON-COMMERCIAL ENERGY TABLE**

At the time of 2002  
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 2001

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
<b>Coal &amp; Coal Products</b>									
Indigenous Production	162,195	-	35,501	383	551,385	-	50,316	1,484	1,632
Import	-	-	20,197	1,927	1,309	4,818	-	94,810	40,556
Export	-118,947	-	-18,646	-	-53,147	-8	-35,495	-1,266	-
Stock Change	-	-	-1,194	104	15,926	-253	-	-264	85
<b>Total</b>	<b>43,247</b>	<b>-</b>	<b>35,857</b>	<b>2,414</b>	<b>515,473</b>	<b>4,556</b>	<b>14,822</b>	<b>94,764</b>	<b>42,273</b>
<b>Crude oil &amp; Petroleum Products</b>									
Indigenous Production	33,280	9,072	138,301	268	155,764	-	61,956	660	-
Import	25,646	8	57,983	11,506	84,142	12,834	25,696	264,058	143,958
Export	-25,467	-8,475	-96,140	-1,292	-18,085	-1,254	-39,164	-16,150	-39,892
Stock Change	-	-30	-1,406	-29	-2,526	-178	-	-459	-116
<b>Total</b>	<b>32,722</b>	<b>574</b>	<b>97,575</b>	<b>9,487</b>	<b>219,295</b>	<b>7,814</b>	<b>48,488</b>	<b>248,109</b>	<b>97,175</b>
<b>Natural Gas</b>									
Indigenous Production	37,041	8,448	152,457	2,170	25,413	-	50,189	2,217	-
Import	-	-	3,202	4,393	-	2,025	-	65,063	18,912
Export	-7,924	-6,611	-88,573	-	-	-	-25,284	-	-
Stock Change	-	10	4,626	-413	-	-	-	2	-172
<b>Total</b>	<b>29,117</b>	<b>1,847</b>	<b>71,712</b>	<b>6,151</b>	<b>25,413</b>	<b>2,025</b>	<b>24,905</b>	<b>67,281</b>	<b>18,740</b>
<b>Nuclear Power</b>									
Indigenous Production	-	-	19,984	-	4,553	-	-	83,680	29,223
<b>Hydro Power</b>									
Indigenous Production	1,443	-	28,645	1,813	23,867	-	916	7,388	357
<b>Geothermal, Solar, etc</b>									
Indigenous Production	105	-	17	-	-	-	5,082	3,838	-
<b>Primary Energy</b>									
Indigenous Production	238,892	17,519	385,366	10,409	763,120	-	168,460	101,879	33,667
Import	25,646	8	82,768	17,946	85,606	20,568	25,696	423,930	203,426
Export	-152,338	-15,086	-206,734	-2,760	-72,109	-1,398	-99,943	-17,416	-39,892
Stock Change	-	-20	2,025	-349	13,400	-432	-	-721	-203
<b>Total</b>	<b>111,463</b>	<b>2,422</b>	<b>262,263</b>	<b>24,280</b>	<b>790,018</b>	<b>15,150</b>	<b>94,213</b>	<b>507,673</b>	<b>190,224</b>

Primary Energy Supply Table in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
<b>Coal &amp; Coal Products</b>									
Indigenous Production	178,868	-	33,023	288	655,513	-	56,206	699	1,418
Import	-	-	14,129	2,014	5,361	5,229	-	96,603	42,740
Export	-124,781	-	-16,473	-	-50,363	-2	-40,332	-1,573	-
Stock Change	-3,882	-	-1,567	182	-5,799	-158	-	137	210
<b>Total</b>	<b>50,205</b>	<b>-</b>	<b>29,113</b>	<b>2,484</b>	<b>604,712</b>	<b>5,069</b>	<b>15,873</b>	<b>95,866</b>	<b>44,369</b>
<b>Crude oil &amp; Petroleum Products</b>									
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
<b>Total</b>	<b>35,683</b>	<b>661</b>	<b>92,940</b>	<b>10,165</b>	<b>235,408</b>	<b>7,642</b>	<b>50,841</b>	<b>244,404</b>	<b>99,850</b>
<b>Natural Gas</b>									
Indigenous Production	38,392	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
<b>Total</b>	<b>29,505</b>	<b>2,660</b>	<b>75,276</b>	<b>6,203</b>	<b>27,367</b>	<b>1,924</b>	<b>27,483</b>	<b>64,395</b>	<b>20,805</b>
<b>Nuclear Power</b>									
Indigenous Production	-	-	19,679	-	6,548	-	-	82,072	31,039
<b>Hydro Power</b>									
Indigenous Production	1,385	-	29,829	1,994	24,774	-	855	7,461	457
<b>Geothermal, Solar, etc</b>									
Indigenous Production	127	-	17	-	-	-	5,364	3,811	-
<b>Primary Energy</b>									
Indigenous Production	258,208	20,769	388,533	10,558	872,855	-	175,743	99,600	35,839
Import	27,515	19	72,108	18,558	100,314	21,233	29,310	413,743	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	-	5,037	1,958
<b>Total</b>	<b>123,172</b>	<b>3,320</b>	<b>256,452</b>	<b>25,274</b>	<b>898,173</b>	<b>15,323</b>	<b>100,796</b>	<b>500,678</b>	<b>199,445</b>

Primary Energy Supply Table in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
344	5,331	2,162	-	13	590	115,349	-	-	5,697	566,010	7,259	1,505,650
2,665	2,349	29	-	472	3,644	15,093	1	30,003	3,140	13,232	-	234,244
-34	-5	-1,291	-	-	-	-23,845	-0	-	-	-30,579	-2,402	-285,665
-64	-172	-	-	86	46	-5,925	-	-645	61	-20,639	168	-12,679
2,911	7,504	900	-	572	4,280	100,672	0	29,358	8,898	528,024	5,024	1,441,550
32,851	165,982	1,843	3,057	4,705	64	346,187	-	35	5,492	365,374	17,046	1,341,934
16,027	14,486	6,140	1,075	4,984	17,960	5,253	83,416	46,639	36,315	570,451	9,239	1,437,816
-26,918	-93,686	-1,426	-3,057	-2,835	-1,370	-214,816	-41,278	-4,435	-7,534	-47,190	-17,828	-708,292
247	-1,826	-97	-	46	-535	-959	-	-749	207	-13,421	-	-21,831
22,054	84,957	6,209	1,075	6,899	15,904	135,665	20,181	39,097	34,479	844,511	8,457	1,980,727
43,462	41,751	5,319	144	1,614	135	468,771	-	680	17,193	457,410	1,563	1,315,978
-	3,191	-	-	-	-	3,342	0	5,533	5,696	92,270	-	203,627
-17,814	-208	-	-	-	-	-146,108	-0	-	-	-8,517	-	-301,038
-	-3,579	-0	-	-	-	-690	-	-169	-	-26,338	-	-26,724
25,648	41,154	5,319	144	1,614	135	325,316	-0	6,044	22,890	514,825	1,563	1,191,842
-	2,296	-	-	-	-	35,686	-	9,248	-	200,328	-	384,997
607	2,408	1,859	80	1,515	611	15,123	-	789	542	17,886	1,566	107,415
-	4,715	3,027	-	54	8,980	79	-	-	2	12,468	-	38,368
77,264	230,758	15,492	3,281	7,900	12,181	981,560	-	10,751	28,926	1,625,547	27,434	4,740,407
18,692	20,055	6,169	1,075	5,457	21,604	24,531	83,417	82,174	45,399	679,261	9,239	1,882,665
-44,766	-93,922	-2,717	-3,057	-2,835	-1,370	-386,975	-41,279	-4,435	-7,557	-87,702	-20,230	-1,304,520
183	-5,601	-97	-	132	-488	-7,573	-	-1,563	267	-60,398	168	-61,270
51,220	151,289	18,597	1,299	10,653	31,712	611,542	20,182	84,535	67,035	2,126,005	16,611	5,188,382

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	798	112,211	-	-	5,742	543,860	8,904	1,605,744
3,442	3,914	59	-	734	3,310	11,221	7	32,042	3,597	11,938	-	236,340
-37	-2	-1,391	-	-	-	-25,882	-0	-	-	-24,767	-3,387	-288,992
505	-913	-	-	34	-57	3,754	-	-776	-34	701	-	-7,664
4,133	8,259	1,381	-	783	4,051	101,304	7	31,266	9,305	531,733	5,517	1,545,428
34,838	165,304	1,701	2,552	4,687	605	377,550	-	44	6,280	362,943	16,899	1,374,971
14,537	9,896	6,548	1,170	5,083	16,900	6,246	85,394	47,558	37,490	551,701	10,146	1,415,327
-26,258	-92,708	-1,368	-2,552	-2,918	-2,311	-255,367	-36,579	-6,207	-8,243	-45,938	-17,552	-738,477
-719	-3,035	117	-	-145	299	-236	-	1,042	1,445	2,698	-	9,591
22,308	79,458	6,669	1,170	6,707	15,266	128,194	26,046	40,136	36,972	835,071	9,493	1,985,084
45,002	41,024	5,058	144	1,660	1,724	532,826	-	710	18,012	442,772	2,845	1,381,407
-	6,302	-	-	-	-	6,481	20	6,238	6,525	92,979	-	210,485
-18,901	-39	-	-	-	-	-166,523	-0	-	-	-11,778	-	-330,094
-	-2,765	-0	-	-	-	-10,942	-	70	-	11,368	-	4,631
26,101	44,523	5,058	144	1,660	1,724	361,841	20	7,018	24,537	535,341	2,845	1,266,429
-	2,540	-	-	-	-	36,909	-	10,307	-	203,256	-	392,350
456	2,138	2,090	80	1,551	605	14,290	-	547	643	21,963	1,565	112,681
-	4,642	2,949	-	55	8,809	135	-	-	2	12,427	-	38,338
80,519	229,119	15,848	2,776	7,968	14,359	1,080,798	-	11,608	30,679	1,593,149	30,213	4,959,142
17,979	20,157	6,607	1,170	5,817	20,210	24,391	85,421	85,838	47,854	659,732	10,146	1,868,609
-45,199	-92,778	-2,760	-2,552	-2,918	-2,311	-449,329	-36,579	-6,207	-8,266	-83,631	-20,939	-1,366,082
-214	-6,736	117	-	-111	242	-7,394	-	335	1,410	14,766	-	6,549
52,995	149,762	19,484	1,394	10,757	32,273	648,467	26,073	89,273	71,677	2,147,683	19,419	5,391,890

## 3.22.2 Final Energy Consumption Table

Final Energy Consumption Table in 2001

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	76,155	635	185,239	19,304	568,961	10,904	65,861	353,497	146,000
Coal & Coal Products	5,318	-	3,966	956	237,619	4	4,272	35,472	19,506
Crude oil & Petroleum Products	35,848	395	77,700	9,913	186,286	7,125	43,974	209,492	88,762
Nature Gas/ LNG & Town Gas	13,966	26	49,861	1,245	27,285	571	10,345	22,049	11,961
Electricity	15,985	214	43,093	3,386	88,863	3,204	7,269	82,562	22,165
Others	4,932	-	9,794	3,803	2,138	-	-	2,402	2,456
Industry	31,690	84	69,459	6,083	305,408	1,535	23,468	153,230	74,474
Coal & Coal Products	5,146	-	3,929	852	173,860	-	3,364	34,508	18,815
Crude oil & Petroleum Products	5,689	33	15,810	2,077	42,091	1,113	10,479	72,989	39,050
Nature Gas/ LNG & Town Gas	10,315	-	21,736	791	16,515	22	6,564	8,019	3,230
Electricity	7,524	52	19,202	2,018	52,826	400	3,061	35,358	11,163
Others	3,017	-	7,956	345	-	-	-	2,355	2,215
Transport	27,530	337	53,061	5,429	61,015	5,889	21,538	86,596	30,323
Coal & Coal Products	105	-	-	-	4,355	-	-	-	-
Crude oil & Petroleum Products	26,918	337	48,339	5,399	53,730	5,889	21,523	84,713	30,122
Nature Gas/ LNG & Town Gas	298	-	4,351	10	105	-	15	-	7
Electricity	209	-	370	20	2,661	-	-	1,883	194
Others	-	-	-	-	-	-	-	-	-
Agriculture	1,567	0	3,869	1,159	29,155	-	-	10,185	4,175
Coal & Coal Products	-	-	-	104	7,361	-	-	-	-
Crude oil & Petroleum Products	1,316	0	2,535	142	15,217	-	-	9,754	3,640
Nature Gas/ LNG & Town Gas	0	-	501	29	-	-	-	-	20
Electricity	251	-	833	321	6,564	-	-	335	515
Others	-	-	-	563	-	-	-	-	-
Residential & Commercial	14,083	203	58,683	5,517	91,693	3,467	12,066	96,881	33,711
Coal & Coal Products	67	-	37	1	40,585	-	-	964	690
Crude oil & Petroleum Products	639	14	10,849	1,226	19,911	123	9,189	35,430	13,111
Nature Gas/ LNG & Town Gas	3,353	26	23,272	415	5,684	549	10	14,030	8,704
Electricity	8,003	163	22,688	1,027	19,657	2,795	2,867	44,987	9,815
Others	1,916	-	1,837	2,848	-	-	-	46	241

Final Energy Consumption Table in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	77,454	689	194,309	19,536	632,465	10,805	67,418	353,470	153,250
Coal & Coal Products	5,110	-	4,080	814	274,341	5	5,020	37,815	20,548
Crude oil & Petroleum Products	35,744	434	80,838	9,943	190,608	6,953	44,999	206,636	91,496
Nature Gas/ LNG & Town Gas	15,088	30	53,890	1,338	28,949	573	9,529	22,233	13,110
Electricity	16,339	225	44,099	3,508	108,730	3,275	7,490	82,865	23,947
Others	5,068	-	10,562	3,934	-	-	380	2,454	2,925
Industry	31,124	93	74,669	5,540	323,676	1,235	21,863	154,374	78,238
Coal & Coal Products	4,982	-	3,942	700	182,530	-	2,948	36,799	19,885
Crude oil & Petroleum Products	6,454	39	18,057	1,958	31,899	829	10,653	71,794	40,531
Nature Gas/ LNG & Town Gas	8,744	-	23,584	831	17,295	21	5,095	8,080	3,569
Electricity	7,445	54	19,526	2,052	69,687	385	3,167	35,289	11,894
Others	3,499	-	8,721	-	-	-	-	2,412	2,359
Transport	26,585	360	53,843	5,619	66,014	5,967	22,085	86,373	32,081
Coal & Coal Products	64	-	-	-	4,626	-	-	-	-
Crude oil & Petroleum Products	26,040	360	48,896	5,578	58,152	5,967	22,072	84,502	31,814
Nature Gas/ LNG & Town Gas	294	-	4,603	23	135	-	14	-	72
Electricity	187	-	345	18	2,908	-	-	1,871	195
Others	-	-	-	-	-	-	-	-	-
Agriculture	1,861	0	3,519	1,348	30,749	-	-	9,692	4,131
Coal & Coal Products	-	-	-	107	7,811	-	-	-	-
Crude oil & Petroleum Products	1,716	0	2,233	161	16,239	-	-	9,259	3,585
Nature Gas/ LNG & Town Gas	2	-	481	83	-	-	-	-	17
Electricity	142	-	805	366	6,683	-	-	335	529
Others	-	-	-	631	-	-	-	-	-
Residential & Commercial	14,334	224	62,103	5,512	99,142	3,590	16,125	96,695	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	157	9,631	34,744	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	3,942	45,370	10,765
Others	1,569	-	1,841	2,862	-	-	380	42	566

Final Energy Consumption Table in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
31,516	94,406	13,369	948	8,462	17,308	415,234	2,550	59,247	44,069	1,561,710	13,428	3,688,804
977	1,824	920	-	382	809	19,917	-	8,820	4,418	67,404	3,743	416,328
20,324	59,726	5,824	730	6,457	13,133	87,737	-	34,954	30,142	820,073	7,456	1,746,050
4,621	11,014	2,708	-	0	-	117,339	-	1,473	1,572	392,215	15	668,269
5,594	13,591	2,893	218	1,570	3,366	53,203	2,550	13,999	7,937	282,018	2,214	655,894
-	8,250	710	-	-	-	364	-	-	-	-	-	34,849
11,853	28,038	3,447	515	3,112	3,594	143,075	-	35,031	13,762	495,992	5,259	1,409,111
977	1,824	773	-	382	696	9,592	-	8,753	4,418	64,986	2,807	335,682
5,009	6,385	293	355	1,796	1,656	11,797	-	18,115	4,170	144,052	1,533	384,493
2,937	9,748	445	-	-	-	43,570	-	644	1,570	201,489	15	327,613
2,930	7,996	1,134	160	934	1,243	27,657	-	7,519	3,604	85,465	903	271,150
-	2,084	551	-	-	-	-	-	-	-	-	-	18,522
13,138	38,470	4,896	328	3,199	8,784	83,116	-	12,353	18,805	631,696	4,075	1,110,579
-	-	2	-	-	-	329	-	-	-	-	-	4,790
13,121	38,373	4,841	328	3,199	8,695	46,717	-	12,257	18,800	623,610	4,050	1,050,963
14	-	2	-	-	-	27,090	-	-	2	8,086	-	39,980
3	97	52	-	-	90	5,430	-	96	3	-	25	11,133
-	-	-	-	-	-	-	-	-	-	-	-	-
98	2,635	423	-	87	254	12,713	-	975	2,874	-	401	70,569
-	-	13	-	0	-	246	-	-	-	-	25	7,749
98	1,994	301	-	43	254	5,816	-	784	2,858	-	336	45,087
-	-	-	-	-	-	443	-	-	-	-	-	994
-	642	108	-	44	-	2,187	-	192	15	-	40	12,046
-	-	-	-	-	-	-	-	-	-	-	-	563
4,047	20,030	2,439	93	1,678	4,352	145,730	-	9,410	6,040	433,963	3,448	947,533
-	-	132	-	-	-	8,722	-	-	-	2,359	911	54,468
1,373	8,410	143	35	1,060	2,318	7,226	-	2,389	1,725	52,410	1,291	168,873
14	710	343	-	0	-	45,428	-	828	-	182,641	-	286,008
2,660	4,857	1,599	58	565	2,033	12,310	-	6,193	4,315	196,552	1,246	344,388
-	6,053	160	-	-	-	-	-	-	-	-	-	13,101

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	95,527	14,216	1,008	8,644	17,294	429,305	2,781	62,167	46,865	1,578,787	15,383	3,814,661
1,086	1,715	884	-	483	739	19,609	-	9,179	4,930	66,816	4,017	457,191
20,638	59,522	6,368	774	6,438	13,401	89,366	-	36,496	31,553	825,623	8,761	1,766,592
5,643	12,174	2,997	-	5	-	128,605	107	1,707	1,767	395,903	19	693,667
5,922	13,929	2,908	234	1,663	3,154	53,168	2,674	14,784	8,615	290,445	2,586	690,560
-	8,187	742	-	-	-	2,622	-	-	-	-	-	36,872
12,853	28,456	3,512	552	3,336	3,487	152,277	-	36,640	15,064	503,340	6,001	1,456,330
1,086	1,715	743	-	483	651	10,934	-	9,082	4,930	64,385	2,944	348,740
4,884	5,700	306	380	1,861	1,664	16,180	-	18,765	4,440	147,553	1,947	385,891
3,824	10,773	489	-	5	-	45,779	-	885	1,762	203,383	19	334,136
3,059	8,255	1,135	172	988	1,172	27,489	-	7,908	3,933	88,019	1,091	292,719
-	2,013	582	-	-	-	412	-	-	-	-	-	19,999
13,441	39,019	5,349	344	2,998	8,897	87,382	-	12,892	19,819	635,175	4,969	1,129,212
-	-	2	-	-	-	-	-	-	-	-	-	4,692
13,409	38,921	5,301	344	2,998	8,793	50,101	-	12,790	19,811	627,013	4,943	1,067,802
28	-	4	-	-	-	31,448	-	-	6	8,162	-	44,787
4	98	42	-	-	104	5,833	-	103	3	-	26	11,738
-	-	-	-	-	-	-	-	-	-	-	-	-
95	2,542	535	-	85	458	11,016	-	985	3,061	-	455	70,531
-	-	14	-	-	-	185	-	-	-	-	25	8,142
95	1,921	372	-	38	293	4,261	-	785	3,044	-	386	44,389
-	-	-	-	-	-	536	-	-	-	-	-	1,119
-	620	149	-	47	164	1,952	-	200	17	-	43	12,055
-	-	-	-	-	-	139	-	-	-	-	-	770
4,386	20,302	2,513	100	1,695	4,119	160,710	-	9,740	6,401	440,213	3,778	986,865
-	-	125	-	-	-	6,394	-	-	-	2,372	1,047	56,111
1,512	8,436	137	38	1,040	2,405	4,683	-	2,345	1,738	51,057	1,305	167,403
15	817	450	-	0	-	49,454	-	821	-	184,358	-	295,571
2,859	4,956	1,582	62	600	1,714	17,894	-	6,574	4,662	202,426	1,426	362,469
-	6,093	160	-	-	-	1,776	-	-	-	-	-	15,288

## 3.22.3 Demand and Supply Table

**Demand & Supply Table of Coal in 2001**

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	162,195	-	35,501	383	551,385	-	50,316	1,484	1,632
Import	-	-	19,793	1,884	1,309	4,818	-	94,810	40,556
Export	-118,937	-	-18,595	-	-44,202	-8	-35,495	-	-
Stock Change	-	-	-1,134	127	17,755	-253	-	-264	85
Primary Energy Supply	43,258	-	35,564	2,394	526,245	4,556	14,822	96,030	42,273
Coal Transformation	-2,996	-	-3,491	-	-92,888	-	-17	-39,670	-
Refining	-	-	-	-	-	-	-	-	-
Gas processing	-	-	-	-474	-5,038	-	-	-	-
Power Generation (Public Utilities)	-38,580	-	-22,706	-1,259	-305,242	-4,552	-10,612	-35,577	-23,920
Power Generation (Auto Producers)	-349	-	-2	-11	-	-	-	-5,262	-
Final Energy Consumption	2,433	-	1,112	650	158,422	4	4,262	15,840	19,506

**Demand & Supply Table of Crude Oil in 2001**

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	30,870	9,072	138,301	268	155,764	-	61,956	660	-
Import	21,976	-	47,930	9,988	57,248	-	14,293	213,965	119,585
Export	-18,245	-8,475	-76,934	-	-7,173	-	-30,593	-	-
Stock Change	-	-32	-893	-228	-1,235	-	-	-1,130	-154
Primary Energy Supply	34,601	565	108,403	10,028	204,604	-	45,656	213,495	119,431
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-36,141	-569	-106,554	-10,028	-193,868	-	-47,567	-207,802	-119,635
Gas processing	-	-	-	-	-	-	-	-	-
Power Generation (Public Utilities)	-	-	-	-	-892	-	-	-4,871	-
Power Generation (Auto Producers)	-	-	-	-	-	-	-	-	-
Final Energy Consumption	11	-	-	-	726	-	-	1	-

**Demand & Supply Table of Natural Gas & LNG in 2001**

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Indigenous Production	37,041	8,448	152,457	2,170	25,413	-	50,189	2,217	-
Import	-	-	3,202	4,393	-	2,025	-	65,063	18,912
Export	-7,924	-6,611	-88,573	-	-	-	-25,284	-	-
Stock Change	-	10	4,626	-413	-	-	-	2	-172
Primary Energy Supply	29,117	1,847	71,712	6,151	25,413	2,025	24,905	67,281	18,740
Coal Transformation	-	-	-	-	-	-	-	-	-
Refining	-337	-	-	-429	-	-	-609	-	-
Gas processing	-13	-417	-	-2,303	-	-	-5,442	-19,489	-12,050
Power Generation (Public Utilities)	-2,479	-753	-5,794	-2,149	-2,464	-2,025	-4,604	-46,151	-6,186
Power Generation (Auto Producers)	-1,885	-666	-1,387	-88	-	-	-	-	-
Final Energy Consumption	13,907	26	49,861	1,120	18,702	-	10,345	455	-

Demand &amp; Supply Table of Coal in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
344	5,331	2,162	-	13	590	115,349	-	-	5,697	566,010	7,259	1,505,650
2,665	2,088	22	-	341	3,644	15,035	0	29,948	3,103	11,843	-	231,858
-34	-4	-1,290	-	-	-	-22,404	-0	-	-	-29,945	-2,402	-273,316
-64	-394	-	-	81	46	-5,612	-	-669	61	-20,682	168	-10,751
2,911	7,021	894	-	435	4,280	102,369	0	29,278	8,861	527,226	5,024	1,453,442
-	-1,414	-	-	-32	-	-21,145	-	-3,670	-	-17,120	-	-182,444
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-5,512
-1,994	-5,422	-337	-	-89	-3,397	-49,997	-	-15,930	-4,480	-393,775	-1,281	-919,149
-	-	-15	-	-	-	-19,433	-	-4,611	-	-86,917	-	-116,599
977	57	920	-	329	809	11,793	-	4,571	4,380	51,125	3,743	280,934

Demand &amp; Supply Table of Crude Oil in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
32,851	165,982	1,576	3,057	4,705	64	346,187	-	35	5,492	305,879	17,046	1,279,764
9,146	-	4,790	-	3,744	15,003	5,123	41,508	37,884	35,923	487,560	-	1,125,665
-18,018	-88,982	-1,277	-3,057	-945	-	-162,271	-	-	-1,925	-1,089	-17,033	-436,017
247	-1,878	-121	-	208	-304	-909	-	-140	783	-5,302	-	-11,088
24,226	75,122	4,968	-	7,712	14,762	188,129	41,508	37,779	40,273	787,048	13	1,958,323
-	-	-	-	-	-	-	-	-	-	-	-	-
-23,846	-70,359	-5,201	-	-8,114	-15,387	-182,617	-	-37,779	-38,446	-812,399	-	-1,916,313
-	-3,158	-	-	-	-	-	-	-	457	-	-	-2,701
-	-	-	-	-	-	-	-	-	-	-18,226	-	-23,990
-	-	-	-	-	-	-1,042	-	-	-	-11,493	-	-12,535
-	-	-	-	-	-	619	-	-	2,132	-	-	3,488

Demand &amp; Supply Table of Natural Gas &amp; LNG in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
43,462	41,751	5,319	144	1,614	135	468,771	-	680	17,193	457,410	1,563	1,315,978
-	3,191	-	-	-	-	3,342	0	5,533	5,696	92,270	-	203,627
-17,814	-208	-	-	-	-	-146,108	-0	-	-	-8,517	-	-301,038
-	-3,579	-0	-	-	-	-690	-	-169	-	-26,338	-	-26,724
25,648	41,154	5,319	144	1,614	135	325,316	-0	6,044	22,890	514,825	1,563	1,191,842
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-442	-1,817
-9,068	-11,642	-	-	-191	-	-	-	-1,496	-179	-	-	-62,290
-11,922	-9,563	-1,998	-	-218	-135	-112,595	-1,511	-3,831	-17,399	-62,142	-1,106	-295,028
-495	-	-499	-137	-25	-	-77,148	-	-246	-	-98,428	-	-181,003
4,621	11,014	2,708	-	0	-	117,339	-	-	1,572	392,215	15	623,903



**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	-	96,603	42,740
Export	-124,706	-	-16,381	-	-41,597	-2	-40,332	-	-
Stock Change	-3,746	-	-1,594	155	-5,374	-158	-	137	210
Primary Energy Supply	50,416	-	28,944	2,413	613,903	5,069	15,873	97,439	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	-	-	-	-5,459	-
Final Energy Consumption	2,584	-	1,301	510	184,112	5	5,010	16,004	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	-205,016	-	-46,326	-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	38,392	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	29,505	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 &amp; 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	798	112,211	-	-	5,742	543,860	8,904	1,605,744
3,442	3,662	55	-	592	3,310	11,218	0	31,916	3,550	10,100	-	233,644
-37	-2	-1,390	-	-	-	-23,640	-0	-	-	-24,414	-3,387	-275,889
505	-1,367	-	-	56	-57	3,433	-	-674	-34	478	-	-8,031
4,133	7,554	1,378	-	664	4,051	103,222	0	31,241	9,258	530,025	5,517	1,555,468
-	-994	-	-	-32	-	-24,638	-	-3,798	-	-15,532	-	-195,990
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-5,800
-2,556	-6,308	-338	-	-225	-3,214	-49,997	-	-17,204	-4,375	-374,989	-1,500	-954,579
-	-	-16	-	-	-	-20,954	-	-4,841	-	-109,007	-	-140,289
1,086	108	884	-	424	739	9,629	-	4,860	4,883	51,400	4,017	308,104

Demand &amp; 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	605	377,550	-	44	6,280	302,727	16,899	1,311,727
7,317	-	5,122	-	3,728	12,616	6,238	41,365	39,039	36,697	476,283	-	1,102,084
-18,100	-85,074	-1,146	-2,552	-1,082	-333	-188,573	-	-	-2,731	-471	-16,899	-461,599
-989	-2,816	-44	-	180	114	-1,012	-	72	1,650	-2,037	-	-3,748
23,066	77,414	5,373	-	7,512	13,002	194,203	41,365	39,154	41,897	776,502	-	1,948,464
-	-	-	-	-	-	-	-	-	-	-	-	-
-22,881	-73,973	-5,444	-	-8,060	-12,234	-190,048	-	-39,154	-40,156	-808,710	-	-1,917,553
-	-2,829	-	-	-	-	-	-	-	496	-	-	-2,333
-	-	-	-	-	-	-	-	-	-	-18,387	-	-23,803
-	-	-	-	-	-	-998	-	-	-	-11,594	-	-13,157
-	-	-	-	-	-	163	-	-	2,079	-	-	3,418

Demand &amp; Supply Table of Natural Gas &amp; 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	532,826	-	710	18,012	442,772	2,845	1,381,407
-	6,302	-	-	-	-	6,481	20	6,238	6,525	92,979	-	210,485
-18,901	-39	-	-	-	-	-166,523	-0	-	-	-11,778	-	-330,094
-	-2,765	-0	-	-	-	-10,942	-	70	-	11,368	-	4,631
26,101	44,523	5,058	144	1,660	1,724	361,841	20	7,018	24,537	535,341	2,845	1,266,429
-	-	-	-	-	-	-	-	-	-	-	-	-129
-	-	-	-	-	-	-	-	-	-	-	-531	-2,077
-7,769	-11,869	-	-	-557	-	-	-	-2,226	-182	-	-	-66,793
-12,424	-12,636	-1,495	-	-280	-1,724	-125,102	-2,306	-4,628	-18,698	-52,274	-2,295	-307,472
-128	-	-448	-137	-24	-	-88,195	-	-153	-	-89,442	-	-181,885
5,643	12,174	2,997	-	5	-	128,605	-	-	1,767	395,903	19	647,593

## 3.22.4 Power Generation Table

Power Generation Table in 2001

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	210,325	2,910	587,655	42,532	1,471,657	32,429	100,526	1,068,045	285,225
Thermal	192,092	2,910	177,615	20,852	1,176,753	32,429	83,965	637,940	168,941
Hydro	16,778	-	333,145	21,680	277,432	-	10,651	85,907	4,151
Nuclear	-	-	76,695	-	17,472	-	-	321,104	112,133
Geothermal	-	-	-	-	-	-	5,910	3,324	-
Others	1,456	-	200	-	-	-	-	19,771	-
Public Utilities	198,652	2,579	542,624	39,490	1,471,657	32,429	100,526	917,292	285,225
Thermal	181,358	2,579	161,836	18,407	1,176,753	32,429	83,965	510,652	168,941
Hydro	16,778	-	303,973	21,083	277,432	-	10,651	80,963	4,151
Nuclear	-	-	76,695	-	17,472	-	-	320,538	112,133
Geothermal	-	-	-	-	-	-	5,910	3,086	-
Others	516	-	120	-	-	-	-	2,052	-
Auto Producers	11,673	331	45,032	3,042	-	-	-	150,754	-
Thermal	10,733	331	15,779	2,445	-	-	-	127,288	-
Hydro	-	-	29,172	597	-	-	-	4,944	-
Nuclear	-	-	-	-	-	-	-	566	-
Geothermal	-	-	-	-	-	-	-	238	-
Others	940	-	80	-	-	-	-	17,719	-

Power Generation Table in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Total	222,183	3,017	600,443	43,670	1,640,477	34,312	108,043	1,069,252	306,473
Thermal	204,206	3,017	174,331	20,483	1,327,376	34,312	91,866	644,078	182,062
Hydro	16,031	-	350,386	23,187	287,974	-	9,940	86,751	5,309
Nuclear	-	-	75,526	-	25,127	-	-	314,934	119,102
Geothermal	-	-	-	-	-	-	6,238	3,364	-
Others	1,947	-	200	-	-	-	-	20,124	-
Public Utilities	212,989	2,701	552,617	40,834	1,640,477	34,312	108,043	911,571	306,473
Thermal	196,681	2,701	157,870	18,273	1,327,376	34,312	91,866	510,363	182,062
Hydro	15,742	-	319,102	22,561	287,974	-	9,940	81,595	5,309
Nuclear	-	-	75,526	-	25,127	-	-	314,258	119,102
Geothermal	-	-	-	-	-	-	6,238	3,166	-
Others	567	-	120	-	-	-	-	2,189	-
Auto Producers	9,194	316	47,826	2,836	-	-	-	157,681	-
Thermal	7,525	316	16,461	2,210	-	-	-	133,715	-
Hydro	289	-	31,284	626	-	-	-	5,156	-
Nuclear	-	-	-	-	-	-	-	676	-
Geothermal	-	-	-	-	-	-	-	198	-
Others	1,381	-	80	-	-	-	-	17,935	-

Power Generation Table in 2001 (Continued)

												GWh	
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total	
71,069	197,226	39,595	2,687	20,786	54,455	891,284	33,089	188,519	102,420	3,758,387	30,608	9,191,427	
64,011	154,918	13,736	1,756	3,171	29,503	578,405	33,089	143,863	96,115	2,690,552	12,398	6,315,012	
7,058	28,007	21,621	930	17,615	7,104	175,850	-	9,169	6,303	208,143	18,210	1,249,755	
-	8,811	-	-	-	-	136,935	-	35,486	-	768,826	-	1,477,463	
-	5,483	2,976	-	-	10,442	91	-	-	2	13,874	-	42,102	
-	7	1,262	-	-	7,406	3	-	-	-	76,992	-	107,096	
69,070	197,226	36,520	1,047	19,214	54,455	841,253	33,089	156,071	102,420	2,629,962	30,608	7,761,406	
62,012	154,918	11,745	500	2,026	29,503	529,296	33,089	111,415	96,115	1,903,488	12,398	5,283,424	
7,058	28,007	21,621	547	17,188	7,104	174,927	-	9,169	6,303	190,105	18,210	1,195,270	
-	8,811	-	-	-	-	136,935	-	35,486	-	534,207	-	1,242,278	
-	5,483	2,936	-	-	10,442	91	-	-	2	152	-	28,102	
-	7	218	-	-	7,406	3	-	-	-	2,010	-	12,331	
1,999	-	3,075	1,640	1,571	-	50,032	-	32,448	-	1,128,425	-	1,430,022	
1,999	-	1,991	1,256	1,145	-	49,108	-	32,448	-	787,064	-	1,031,588	
-	-	-	384	426	-	923	-	-	-	18,038	-	54,484	
-	-	-	-	-	-	-	-	-	-	234,619	-	235,185	
-	-	40	-	-	-	-	-	-	-	13,722	-	14,000	
-	-	1,044	-	-	-	-	-	-	-	74,982	-	94,765	

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	39,494	2,884	21,982	55,953	896,042	34,665	198,820	109,013	3,858,996	35,795	9,556,963	
68,897	161,238	11,082	1,954	3,942	31,192	585,287	34,665	152,908	101,540	2,729,959	17,597	6,581,991	
5,300	24,862	24,303	930	18,040	7,033	166,163	-	6,360	7,471	255,586	18,198	1,313,823	
-	9,747	-	-	-	-	141,629	-	39,553	-	780,064	-	1,505,682	
-	5,398	2,878	-	-	10,242	156	-	-	2	13,357	-	41,636	
-	7	1,231	-	-	7,485	2,807	-	-	-	80,030	-	113,832	
72,372	201,252	36,640	1,210	20,420	55,953	840,449	34,665	164,161	109,013	2,549,457	35,795	7,931,404	
67,072	161,238	9,288	663	2,781	31,192	533,417	34,665	118,249	101,540	1,803,434	17,597	5,402,639	
5,300	24,862	24,303	547	17,638	7,033	165,241	-	6,360	7,471	234,868	18,198	1,254,042	
-	9,747	-	-	-	-	141,629	-	39,553	-	507,380	-	1,232,322	
-	5,398	2,831	-	-	10,242	156	-	-	2	152	-	28,185	
-	7	219	-	-	7,485	6	-	-	-	3,623	-	14,216	
1,825	-	2,854	1,675	1,563	-	55,593	-	34,659	-	1,309,539	-	1,625,559	
1,825	-	1,795	1,291	1,161	-	51,870	-	34,659	-	926,525	-	1,179,352	
-	-	-	384	402	-	922	-	-	-	20,718	-	59,781	
-	-	-	-	-	-	-	-	-	-	272,684	-	273,360	
-	-	47	-	-	-	-	-	-	-	13,205	-	13,450	
-	-	1,012	-	-	-	2,801	-	-	-	76,407	-	99,616	

## 3.22.5 Fuel Consumption Table for Power Generation

Fuel Consumption Table for Power Generation in 2001

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
Public Utilities	41,327	753	31,656	3,606	323,721	6,615	19,786	100,758	36,806
Coal	38,580	-	22,706	1,259	305,242	4,552	10,612	35,577	23,920
Coke Oven Gas	-	-	-	-	683	-	-	1,375	-
Blast Furnace Gas	-	-	-	-	-	-	-	2,968	-
Lignite	13,804	-	3,788	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	892	-	-	4,871	-
LPG	-	-	-	-	12	-	-	481	-
Refinery Gas	-	-	-	-	1,285	-	-	-	-
Naphtha	-	-	-	-	-	-	-	52	-
Diesel Oil	126	-	103	43	2,329	5	2,965	187	41
Fuel Oil	83	-	3,053	24	10,813	33	1,604	9,096	6,387
Natural Gas	2,479	753	5,794	2,149	2,464	2,025	4,604	46,151	6,186
Others	60	-	-	130	683	-	-	4,343	272
Auto Producers	2,568	666	1,849	219	-	-	-	19,981	-
Coal	349	-	2	11	-	-	-	5,262	-
Coke Oven Gas	-	-	40	-	-	-	-	516	-
Blast Furnace Gas	12	-	38	-	-	-	-	1,954	-
Lignite	349	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-	-	-	-	-	-	-	-
LPG	0	-	-	-	-	-	-	57	-
Refinery Gas	53	-	246	2	-	-	-	917	-
Naphtha	-	-	-	-	-	-	-	1,106	-
Diesel Oil	256	-	49	24	-	-	-	-	-
Fuel Oil	13	-	88	95	-	-	-	9,385	-
Natural Gas	1,885	666	1,387	88	-	-	-	-	-
Others	12	-	77	-	-	-	-	3,253	-

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	-	-	-	20,057	-
Coal	0	-	2	11	-	-	-	5,459	-
Coke Oven Gas	-	-	45	-	-	-	-	567	-
Blast Furnace Gas	21	-	43	-	-	-	-	1,938	-
Lignite	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	565	-	-	-	-	-	-	-	-
LPG	-	-	-	-	-	-	-	53	-
Refinery Gas	-	-	253	2	-	-	-	911	-
Naphtha	-	-	-	-	-	-	-	1,140	-
Diesel Oil	-	-	30	29	-	-	-	-	-
Fuel Oil	306	-	62	77	-	-	-	9,225	-
Natural Gas	1,182	853	1,267	56	-	-	-	-	-
Others	21	-	87	-	-	-	-	3,269	-

Fuel Consumption Table for Power Generation in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
14,924	37,287	2,335	119	552	6,003	171,667	1,511	23,985	22,617	493,843	3,794	1,343,665
1,994	5,422	337	-	89	3,397	49,997	-	15,930	4,480	393,775	1,281	919,149
-	-	-	-	-	-	-	-	-	-	-	-	2,058
-	-	-	-	-	-	-	-	-	-	-	-	2,968
-	-	-	-	-	-	19,183	-	-	3,966	-	-	40,740
-	-	-	-	-	-	-	-	-	-	18,226	-	23,990
-	-	-	-	-	-	-	-	-	-	-	-	493
-	-	-	-	-	-	-	-	-	-	-	-	1,285
-	-	-	-	-	-	-	-	-	-	-	-	52
278	444	-	17	47	224	1,096	-	131	73	2,943	448	11,498
730	21,859	-	102	198	2,248	7,979	-	4,093	665	15,846	959	85,772
11,922	9,563	1,998	-	218	135	112,595	1,511	3,831	17,399	62,142	1,106	295,028
-	-	-	-	-	-	-	-	-	-	910	-	6,397
654	-	514	363	305	-	114,618	-	6,148	-	196,838	-	344,722
-	-	15	-	-	-	19,433	-	4,611	-	86,917	-	116,599
-	-	-	-	-	-	844	-	104	-	-	-	1,504
-	-	-	-	-	-	3,377	-	319	-	-	-	5,699
-	-	-	-	-	-	5,537	-	-	-	-	-	5,886
-	-	-	-	-	-	1,042	-	-	-	11,493	-	12,535
-	-	-	-	-	-	26	-	-	-	-	-	84
-	-	-	-	-	-	969	-	19	-	-	-	2,207
-	-	-	-	-	-	-	-	-	-	-	-	1,106
159	-	-	32	221	-	944	-	-	-	-	-	1,684
-	-	-	194	56	-	10,791	-	849	-	-	-	21,471
495	-	499	137	25	-	77,148	-	246	-	98,428	-	181,003
-	-	-	-	2	-	4,264	-	423	-	-	-	8,032

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	6,518	182,145	2,306	25,118	23,738	465,521	5,052	1,387,822
2,556	6,308	338	-	225	3,214	49,997	-	17,204	4,375	374,989	1,500	954,579
-	-	-	-	-	-	-	-	-	-	-	-	2,136
-	-	-	-	-	-	-	-	-	-	-	-	3,565
-	-	-	-	-	-	17,428	-	-	3,780	-	-	35,821
-	-	-	-	-	-	-	-	-	-	18,387	-	23,803
-	-	-	-	-	-	-	-	-	-	-	-	357
-	-	-	-	-	-	-	-	-	-	-	-	1,395
-	-	-	-	-	-	-	-	-	-	-	-	15
476	363	-	22	39	184	-	-	135	41	2,969	389	11,190
1,363	18,811	-	136	204	1,396	7,046	-	3,151	623	15,985	869	78,911
12,424	12,636	1,495	-	280	1,724	125,102	2,306	4,628	18,698	52,274	2,295	307,472
-	-	-	-	-	-	-	-	-	-	918	-	10,100
300	-	464	375	302	-	126,252	-	6,383	-	210,043	-	368,980
-	-	16	-	-	-	20,954	-	4,841	-	109,007	-	140,289
-	-	-	-	-	-	923	-	103	-	-	-	1,638
-	-	-	-	-	-	3,402	-	331	-	-	-	5,735
-	-	-	-	-	-	5,200	-	-	-	-	-	5,200
-	-	-	-	-	-	998	-	-	-	11,594	-	13,157
-	-	-	-	-	-	49	-	-	-	-	-	102
-	-	-	-	-	-	1,072	-	29	-	-	-	2,267
-	-	-	-	-	-	-	-	-	-	-	-	1,140
172	-	-	41	226	-	325	-	-	-	-	-	823
-	-	-	197	51	-	10,287	-	926	-	-	-	21,132
128	-	448	137	24	-	88,195	-	153	-	89,442	-	181,885
-	-	-	-	1	-	4,372	-	435	-	-	-	8,185

## 3.22.6 Stock Table by Energy Resources

## Stock Table by Energy Resource in 2001

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
<b>Opening Stocks</b>									
Hard Coal	-	-	3,980	-	-	-	-	-	-
Steam Coal	-	-	1,848	-	-	-	-	-	-
Coking Coal	-	-	2,047	-	-	-	-	-	-
Subbituminous Coal	-	-	84	-	-	-	-	-	-
Anthracite	-	-	192	-	-	-	-	-	4,730
Lignite	-	-	289	-	-	-	-	-	-
Coke	-	-	118	-	-	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	217	7,320	-	-	-	-	-	1,627
LPG	-	0	124	-	-	8	-	-	296
Naphtha	-	-	362	-	-	16	-	-	837
MOGAS	-	8	1,981	-	-	22	-	-	464
Jet Fuel	-	5	321	-	-	104	-	-	312
Kerosene	-	-	107	-	-	4	-	-	1,414
Diesel Oil	-	8	2,148	-	-	144	-	-	1,425
Fuel Oil	-	-	565	-	-	171	-	-	1,742
Other Petroleum Products	-	2	2,115	-	-	-	-	-	122
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	6,113
<b>Total Opening Stocks</b>	-	241	19,623	-	-	470	-	-	19,082
<b>Closing Stocks</b>									
Hard Coal	-	-	5,324	-	-	-	-	-	-
Steam Coal	-	-	3,009	-	-	-	-	-	-
Coking Coal	-	-	2,236	-	-	-	-	-	-
Subbituminous Coal	-	-	79	-	-	-	-	-	-
Anthracite	-	-	27	-	-	-	-	-	4,645
Lignite	-	-	244	-	-	-	-	-	-
Coke	-	-	178	-	-	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	249	8,214	-	-	-	-	-	1,781
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	2,136	-	-	-	-	-	158
Natural Gas	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	6,372
<b>Total Closing Stocks</b>	-	272	22,223	-	-	502	-	-	19,372
<b>Stock Change</b>									
Hard Coal	-	-	-1,344	127	-	-	-	-263	-
Steam Coal	-	-	-1,160	-	-	-	-	-263	-
Coking Coal	-	-	-189	-	-	-	-	-	-
Subbituminous Coal	-	-	5	-	-	-	-	-	-
Anthracite	-	-	165	-	-	-	-	-1	85
Lignite	-	-	45	-	-	-	-	-	-
Coke	-	-	-60	-23	-18,281	-	-	-	-
Briquettes	-	-	-	-	-	-	-	-	-
Crude Oil & NGL	-	-32	-893	-228	-24,700	-	-	-1,130	-154
LPG	-	0	-43	53	-1,254	1	-	-188	51
Naphtha	-	-	1	-98	-	68	-	377	-270
MOGAS	-	0	-146	131	3,718	38	-	16	28
Jet Fuel	-	1	0	-32	-	-543	-	-127	-106
Kerosene	-	-	-37	5	5,186	29	-	90	275
Diesel Oil	-	0	-306	-37	-21,415	-169	-	210	188
Fuel Oil	-	-	38	179	855	397	-	253	-91
Other Petroleum Products	-	0	-21	-	-	-	-	39	-36
Natural Gas	-	-	4,625	-413	-	-	-	2	-
Others	-	21	-	-13	177,545	-	-	-	-259
<b>Total Stock Change</b>	-	-10	2,025	-349	121,654	-178	-	-721	-290

Stock Table by Energy Resource in 2001 (Continued)

												ktoe
Malaysia	Mexico	New Zealand	Papua New Guinea	Peru	Philippines	Russia	Singapore	Chinese Taipei	Thailand	United States	Viet Nam	Total
-	-	-	-	-	-	446,378	-	-	-	-	-	450,358
-	-	-	-	-	-	-	-	-	-	-	-	1,848
-	-	-	-	-	-	-	-	-	-	-	-	2,047
-	-	-	-	-	-	-	-	-	-	-	-	84
-	-	-	-	-	-	-	-	-	-	-	-	4,922
-	-	-	-	-	-	88,613	-	-	-	-	-	88,902
-	-	-	-	-	-	10,017	-	-	-	626	-	10,761
-	-	-	-	-	-	189	-	-	-	-	-	189
6,373	-	502	-	-	-	1,343,871	-	-	-	230,594	-	1,590,504
122	-	1	-	-	-	2,812	-	-	-	7,146	-	10,510
-	-	-	-	-	-	-	-	-	-	346	-	1,561
830	-	306	-	-	-	-	-	-	-	19,087	-	22,699
-	-	86	-	-	-	-	-	-	-	6,043	-	6,872
273	-	-	-	-	-	-	-	-	-	557	-	2,356
1,440	-	332	-	-	-	113,418	-	-	-	16,459	-	135,373
538	-	94	-	-	-	244,790	-	-	-	5,448	-	253,349
1,318	-	60	-	-	-	-	-	-	-	7,132	-	10,748
-	-	5	-	-	-	1,404,283	-	-	-	141,408	-	1,545,696
2,256	-	18	-	-	-	1,939,274	-	-	-	69,870	-	2,017,531
13,150	-	1,404	-	-	-	5,593,644	-	-	-	504,716	-	6,152,330
-	-	-	-	-	-	611,624	-	-	-	-	-	616,948
-	-	-	-	-	-	-	-	-	-	-	-	3,009
-	-	-	-	-	-	-	-	-	-	-	-	2,236
-	-	-	-	-	-	-	-	-	-	-	-	79
-	-	-	-	-	-	-	-	-	-	-	-	4,672
-	-	-	-	-	-	125,390	-	-	-	-	-	125,634
-	-	-	-	-	-	21,337	-	-	-	582	-	22,097
-	-	-	-	-	-	136	-	-	-	-	-	136
5,879	-	376	-	-	-	1,376,608	-	-	-	241,198	-	1,634,304
116	-	2	-	-	-	2,858	-	-	-	10,440	-	13,835
-	-	-	-	-	-	-	-	-	-	301	-	1,795
735	-	296	-	-	-	-	-	-	-	20,138	-	23,775
-	-	79	-	-	-	-	-	-	-	5,695	-	6,634
277	-	-	-	-	-	-	-	-	-	731	-	2,292
1,439	-	319	-	-	-	105,699	-	-	-	20,152	-	131,553
588	-	141	-	-	-	255,843	-	-	-	6,178	-	265,183
1,403	-	66	-	-	-	-	-	-	-	6,654	-	10,418
-	-	5	-	-	-	1,429,127	-	-	-	167,471	-	1,596,604
2,361	-	22	-	-	-	2,166,142	-	-	-	90,580	-	2,265,477
12,797	-	1,307	-	-	-	6,094,764	-	-	-	570,121	-	6,721,357
-	-	-	-	-	-	-	-	-	-	-	-	-1,480
-	-	-	-	-	-	-	-	886	-	-	-	-537
-	-	-	-	-	-	-	-	-1,555	-	-	-	-1,744
-	-	-	-	-	-	-	-	-	-	-	-	5
-	-	-	-	-	-	-	-	-	-	-	-	250
-	-	-	-	-	-	-36,777	-	-	61	-	-	-36,671
-	932	-	-	145	-	-11,320	-	25	-	43	-	-28,540
-	-	-	-	-	-	53	-	-	-	-	-	53
494	-15,726	-126	-	5,234	-304	-32,737	-	-140	783	-10,604	-	-80,262
3	98	1	-	-419	5	-45	-	-28	-36	-3,312	-	-5,112
-	-	-	-	-	5	-	-	85	-	45	-	212
95	-173	-10	-	-6,870	-23	1,606	-	443	-92	-1,055	-	-2,293
-	-	-7	-	-	1	-	-	155	48	348	-	-262
-4	-109	-	-	1,931	6	-	-	20	-111	-174	-	7,108
1	142	-12	-	-32	-117	7,719	-	-164	-73	-3,693	-	-17,757
-49	300	47	-	470	-108	-11,053	-	28	-313	-730	-	-9,776
-86	-40	6	-	838	-1	-	-	-1,149	-	478	-	29
-	-29,972	-0	-	-	-	-24,845	-	14	-	-26,339	-	-76,928
-24	-1,854	4	-	2,031	48	-226,868	-	-352	-	-20,710	4,234	-66,197
430	-46,402	-97	-	3,328	-488	-334,267	-	-1,062	267	-65,701	4,234	-317,628



## Stock Table by Energy Resource in 2002

	Australia	Brunei	Canada	Chile	China	Hong Kong	Indonesia	Japan	Korea
<b>Opening Stocks</b>									
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
<b>Total Opening Stocks</b>	-	558	16,534	-	-	502	-	-	19,351
<b>Closing Stocks</b>									
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
<b>Total Closing Stocks</b>	-	474	16,397	-	-	481	-	-	16,817
<b>Stock Change</b>									
Hard Coal	-3,745	-	-2,019	155	-	-	-	137	-
Steam Coal	-2,280	-	-1,008	-	-	-	-	137	-
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
<b>Total Stock Change</b>	-6,578	93	5,411	-652	-48,513	244	-	5,037	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	-	361	-	-	2,828	-	-	-	-	241,198	-	258,166
71	-	2	-	-	10	-	-	-	-	10,466	-	10,968
-	-	-	-	-	37	-	-	-	-	301	-	1,832
437	-	238	-	-	187	-	-	-	-	20,142	-	23,608
204	-	82	-	-	37	-	-	-	-	5,695	-	6,879
47	-	-	-	-	33	-	-	-	-	731	-	2,095
788	-	268	-	-	319	-	-	-	-	20,152	-	25,473
607	-	135	-	-	380	-	-	-	-	6,178	-	9,733
1,223	-	61	-	-	7	-	-	-	-	6,654	-	10,238
-	-	5	-	-	-	-	-	-	-	167,798	-	167,803
2,545	-	27	-	-	703	-	-	-	-	90,580	-	100,228
9,284	-	1,180	-	-	4,541	-	-	-	-	570,478	-	622,428
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-	4,435
-	-	-	-	-	-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-	-	-	360	-	510
-	-	-	-	-	-	-	-	-	-	-	-	0
4,351	-	306	-	-	2,600	-	-	-	-	245,272	-	262,430
65	-	2	-	-	11	-	-	-	-	9,128	-	9,793
-	-	-	-	-	17	-	-	-	-	300	-	1,514
445	-	368	-	-	157	-	-	-	-	20,194	-	23,573
98	-	143	-	-	40	-	-	-	-	5,318	-	6,275
2	-	-	-	-	32	-	-	-	-	742	-	1,527
765	-	298	-	-	240	-	-	-	-	18,698	-	23,467
587	-	89	-	-	322	-	-	-	-	4,716	-	8,110
1,145	-	48	-	-	6	-	-	-	-	6,472	-	10,440
-	-	5	-	-	-	-	-	-	-	156,104	-	156,109
2,040	-	38	-	-	760	-	-	-	-	90,088	-	98,358
9,498	-	1,297	-	-	4,184	-	-	-	-	557,392	-	606,540
-	-	-	-	-	-	119,412	-	-674	-	-	-	113,265
-	-	-	-	-	-	-	-	1,501	-	-	-	-1,651
-	-	-	-	-	-	-	-	-2,175	-	-	-	-2,804
-	-	-	-	-	-	-	-	-	-	-	-	-1,848
-	-	-	-	-	-	-	-	-	-	-	-	210
-	-	-	-	-	-	4,194	-	-	-34	-	-	4,585
-	1,901	-	-	-554	-	11,676	-	-102	-	223	-	8,783
-	-	-	-	-	-	-121	-	-	-	-	-	-92
-989	-23,583	-55	-	4,532	228	-36,432	-	72	1,737	-4,074	-	-66,130
6	343	-	-	-200	-1	317	-	18	-31	1,312	-	3,259
-	-	-	-	-	20	-	-	372	-	1	-	354
-8	-724	130	-	-5,573	30	-7,550	-	162	61	-55	-	-6,834
106	-	61	-	-	-3	-	-	259	-13	377	-	983
45	9	-	-	-866	1	-	-	63	-726	-10	-	764
23	114	29	-	89	79	3,654	-	-155	901	1,454	-	15,218
20	-524	-46	-	476	58	31,501	-	414	-397	1,462	-	38,084
78	-135	-13	-	-2,112	1	-	-	-162	-	182	-	-2,387
-	-23,150	-0	-	-	-	-	-	35	-	11,368	-	-5,224
505	-5,917	11	-	1,407	-57	-269,216	-	-570	-87	492	-	-330,169
-214	-51,667	117	-	-2,801	356	-142,567	-	-270	1,410	12,729	-	-225,330

## 3.22.7 Power Generation Capacity Table

## Power Generation Capacity - Total

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Australia	24,141	28,635	31,230	32,450	33,228	34,446	34,819	35,000	34,435
Brunei Darussalam	148	240	256	268	285	387	387	334	334
Canada	81,999	89,527	95,224	97,019	100,074	101,273	101,055	101,960	102,947
Chile	2,940	3,345	3,352	3,967	3,987	4,033	4,015	4,079	4,079
China	65,869	76,440	80,120	87,053	93,818	102,897	115,497	126,638	137,891
Hong Kong, China	3,342	4,734	5,268	5,580	5,953	6,614	7,453	7,456	8,342
Indonesia	2,554	3,934	4,610	5,635	6,000	7,238	8,531	9,089	9,276
Japan	143,698	159,232	163,290	169,398	173,809	179,107	181,708	186,232	194,730
Republic of Korea	9,391	13,116	14,191	16,137	18,061	19,021	19,945	20,998	21,021
Malaysia	2,334	2,982	3,436	4,443	5,387	5,214	5,512	5,792	5,582
Mexico	14,625	19,004	19,360	20,807	21,266	23,145	23,954	24,445	25,299
New Zealand	6,112	6,405	7,139	7,532	7,732	7,597	7,684	7,662	7,640
Papua New Guinea	313	450	470	491	456	469	485	490	490
Peru	3,140	3,414	3,503	3,682	3,914	3,939	4,107	4,112	4,143
Philippines	4,478	5,736	5,909	6,222	6,503	6,545	6,640	6,863	6,869
Russia	168,200	-	-	195,800	198,100	204,700	208,400	211,200	213,400
Singapore	2,010	2,691	2,691	2,571	2,821	3,451	3,451	3,451	3,667
Chinese Taipei	9,056	12,413	12,960	15,970	16,595	16,589	16,589	16,594	16,883
Thailand	3,448	5,032	6,128	6,705	6,785	6,985	6,997	7,366	8,725
United States of America	578,600	621,094	635,083	655,182	664,781	674,075	677,647	684,616	690,465
Viet Nam	1,185	1,235	1,265	1,500	1,600	1,700	1,800	1,900	2,537

## Power Generation Capacity - Thermal Power

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Australia	18,038	22,302	24,567	25,537	26,199	27,302	27,558	27,784	27,174
Brunei Darussalam	148	240	256	268	285	387	387	334	334
Canada	28,363	30,748	30,728	30,475	30,979	30,800	30,526	30,892	31,174
Chile	1,470	1,570	1,580	1,700	1,706	1,754	1,760	1,789	1,789
China	45,551	52,280	54,520	60,638	66,276	72,704	82,799	92,055	101,845
Hong Kong, China	3,342	4,734	5,268	5,580	5,953	6,614	7,453	7,456	8,342
Indonesia	2,176	3,368	4,044	4,540	4,930	5,586	6,421	6,976	7,041
Japan	98,071	107,265	108,598	110,161	112,265	114,675	115,551	119,304	124,984
Republic of Korea	7,647	9,998	11,073	11,048	11,070	11,073	11,043	11,043	11,065
Malaysia	1,721	2,256	2,523	3,121	3,961	3,788	4,085	4,371	4,185
Mexico	8,483	12,267	12,623	13,850	14,199	14,949	15,505	15,984	16,119
New Zealand	1,852	1,974	2,527	2,668	2,814	2,675	2,676	2,627	2,627
Papua New Guinea	213	345	355	366	316	329	325	335	335
Peru	1,273	1,488	1,504	1,515	1,698	1,721	1,731	1,741	1,744
Philippines	3,089	3,367	3,348	3,366	3,271	3,325	3,440	3,661	3,661
Russia	122,400	-	-	137,300	139,200	143,200	145,700	147,900	149,700
Singapore	2,010	2,691	2,691	2,571	2,821	3,451	3,451	3,451	3,667
Chinese Taipei	6,398	7,740	7,287	8,337	8,887	8,887	8,887	8,887	9,177
Thailand	2,178	3,531	4,414	4,701	4,689	4,729	4,729	5,095	6,451
United States of America	444,181	472,978	478,900	485,305	488,682	489,278	491,001	494,382	498,339
Viet Nam	890	910	920	1,000	1,080	1,160	1,240	1,320	1,362

## Power Generation Capacity - Total (Continued)

											MW	
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
33,884	34,539	34,539	37,251	38,116	38,369	38,699	39,386	40,715	42,851	44,499	47,210	
336	386	386	475	650	707	707	769	770	763	761	-	
104,631	108,090	108,783	113,786	115,505	105,176	105,760	109,870	105,859	102,499	107,238	111,949	
4,809	4,809	4,809	5,504	5,577	6,715	7,546	7,546	9,941	10,372	10,912	11,433	
151,473	166,533	182,910	199,897	217,225	236,540	254,238	277,289	298,768	319,321	338,000	353,000	
8,387	8,932	9,037	10,323	10,096	10,092	10,876	11,312	11,312	11,568	11,568	11,606	
10,241	10,994	12,705	14,819	14,970	15,940	18,946	21,364	20,592	20,760	23,426	23,888	
200,255	205,133	213,033	220,898	226,995	233,737	242,445	250,290	253,544	258,838	261,730	266,129	
21,110	24,120	27,654	28,762	32,184	35,715	41,042	43,406	46,978	48,451	50,859	53,801	
5,541	6,700	6,857	9,000	10,600	12,500	13,541	13,606	12,696	13,762	14,813	15,671	
26,799	27,068	29,204	31,649	33,037	34,791	34,814	35,254	35,664	36,698	37,063	41,311	
7,258	7,592	7,865	7,924	7,915	7,938	7,900	8,103	8,882	8,301	8,042	7,848	
490	490	490	490	490	490	502	539	543	543	-	-	
4,187	4,152	4,371	4,371	4,520	4,682	5,021	5,516	5,742	6,070	5,907	5,936	
6,789	6,695	8,014	9,212	9,696	11,190	11,725	12,067	12,341	-	-	14,702	
212,900	213,000	213,400	214,900	215,000	214,500	214,200	213,411	205,411	214,011	-	214,860	
4,173	4,553	4,553	4,553	4,678	5,255	5,765	5,521	6,730	5,672	-	5,295	
18,383	19,234	19,354	20,983	21,898	23,763	25,735	25,743	25,743	27,385	27,434	31,916	
9,707	11,732	12,734	12,990	14,757	16,143	17,261	17,508	18,741	20,802	20,929	22,227	
739,535	749,894	760,428	760,315	775,582	775,890	778,649	775,868	785,927	812,667	854,655	-	
2,987	3,174	3,934	4,258	4,499	4,615	4,869	5,677	5,643	6,250	8,323	-	

## Power Generation Capacity - Thermal Power (Continued)

											MW	
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
26,622	27,133	27,133	29,810	30,648	30,901	31,196	31,891	33,342	34,155	35,889	40,028	
336	386	386	475	650	707	707	769	770	763	761	-	
31,324	32,415	31,219	32,984	33,307	30,579	31,163	35,273	27,246	23,886	28,625	33,336	
1,738	1,738	1,738	2,247	2,246	2,928	3,721	3,721	5,914	6,244	6,781	6,987	
113,589	125,852	138,020	148,736	162,941	178,860	192,408	209,884	223,434	237,540	252,800	264,200	
8,387	8,932	9,037	10,323	10,096	10,092	10,876	11,312	11,312	11,568	11,568	11,606	
7,985	8,675	10,385	12,335	12,482	13,449	16,147	17,935	17,220	17,385	19,786	19,944	
127,452	130,745	132,851	138,049	141,665	146,074	152,202	159,054	161,869	166,648	168,729	172,889	
11,050	14,006	17,534	18,641	20,475	23,005	27,611	28,259	30,114	31,586	33,267	34,209	
4,144	5,155	5,280	7,340	8,840	10,268	11,516	11,502	10,882	11,708	12,695	13,565	
17,472	17,731	19,618	21,098	21,644	22,703	22,721	23,495	23,928	24,857	25,239	29,486	
2,246	2,247	2,247	2,252	2,402	2,422	2,232	2,422	2,935	2,612	2,272	2,135	
335	335	335	335	335	335	280	317	319	319	-	-	
1,730	1,701	1,921	1,921	2,053	2,138	2,524	2,943	3,068	3,210	2,940	2,938	
3,746	3,550	4,737	5,885	6,275	7,444	7,536	7,907	8,123	-	-	10,253	
149,400	148,400	148,800	149,700	149,700	149,100	149,000	148,400	140,000	148,900	-	147,213	
4,173	4,553	4,553	4,553	4,678	5,255	5,765	5,521	6,730	5,672	-	5,160	
10,677	11,526	11,634	12,191	12,571	14,331	16,303	16,311	16,311	17,819	17,868	22,261	
7,252	9,273	10,264	10,425	12,019	13,234	14,339	14,584	15,817	17,865	17,992	19,290	
543,334	551,498	557,495	556,305	571,275	561,699	564,083	563,876	572,593	599,823	639,726	-	
1,313	1,503	1,537	1,541	1,633	1,749	2,003	2,811	2,781	2,957	4,195	-	

**Power Generation Capacity - Hydro Power**

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Australia	6,103	6,333	6,663	6,913	7,029	7,144	7,261	7,216	7,261
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Canada	47,770	51,274	54,949	55,880	57,731	57,945	57,936	58,465	58,701
Chile	1,470	1,775	1,772	2,267	2,281	2,279	2,255	2,290	2,290
China	20,318	24,160	25,600	26,415	27,542	30,193	32,698	34,583	36,046
Hong Kong, China	-	-	-	-	-	-	-	-	-
Indonesia	378	536	536	1,065	1,040	1,512	1,970	1,973	2,095
Japan	29,776	33,525	33,966	34,337	35,698	36,386	37,291	37,483	37,831
Republic of Korea	1,157	1,202	1,202	2,223	2,225	2,232	2,236	2,339	2,340
Malaysia	613	726	913	1,322	1,426	1,426	1,427	1,421	1,397
Mexico	5,992	6,532	6,532	6,532	6,532	7,546	7,749	7,761	7,805
New Zealand	4,022	4,219	4,394	4,593	4,649	4,649	4,649	4,647	4,626
Papua New Guinea	100	105	115	125	140	140	160	155	155
Peru	1,868	1,926	1,998	2,166	2,216	2,219	2,375	2,371	2,400
Philippines	943	1,585	1,667	1,962	2,147	2,142	2,139	2,147	2,153
Russia	37,500	-	-	41,500	41,900	42,300	42,500	43,100	43,400
Singapore	-	-	-	-	-	-	-	-	-
Chinese Taipei	1,386	1,431	1,480	1,489	1,564	1,558	1,558	1,563	1,562
Thailand	1,270	1,501	1,714	2,004	2,096	2,256	2,268	2,271	2,274
United States of America	81,700	83,900	85,300	88,900	89,300	89,665	90,284	90,467	90,885
Viet Nam	250	280	300	450	470	490	510	530	1,176

**Power Generation Capacity - Nuclear Power**

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Australia	-	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Canada	5,866	7,505	9,547	10,664	11,364	12,528	12,593	12,603	13,052
Chile	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	15,689	18,442	20,726	24,686	25,846	28,046	28,866	29,445	31,645
Republic of Korea	587	1,916	1,916	2,866	4,766	5,716	6,666	7,616	7,616
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	675
New Zealand	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Philippines	-	-	-	-	-	-	-	-	-
Russia	8,300	-	-	17,000	17,000	19,200	20,200	20,200	20,300
Singapore	-	-	-	-	-	-	-	-	-
Chinese Taipei	1,272	3,242	4,193	5,144	5,144	5,144	5,144	5,144	5,144
Thailand	-	-	-	-	-	-	-	-	-
United States of America	51,810	63,009	69,652	79,397	85,241	93,583	94,695	98,161	99,624
Viet Nam	-	-	-	-	-	-	-	-	-

## Power Generation Capacity - Hydro Power (Continued)

											MW	
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
7,262	7,406	7,406	7,441	7,466	7,466	7,501	7,491	7,370	7,691	7,691	6,219	
-	-	-	-	-	-	-	-	-	-	-	-	
60,235	61,668	62,101	63,953	64,770	61,379	61,379	61,379	62,722	62,722	62,722	62,722	
3,071	3,071	3,071	3,257	3,331	3,787	3,825	3,825	4,027	4,128	4,131	4,157	
37,884	40,681	44,890	49,061	52,184	55,580	59,730	65,065	72,971	79,352	82,700	84,550	
-	-	-	-	-	-	-	-	-	-	-	-	
2,116	2,179	2,125	2,178	2,180	2,183	2,436	3,065	3,012	3,015	3,113	3,155	
39,118	39,523	42,514	41,932	43,455	44,407	44,462	45,382	45,860	46,325	46,387	46,545	
2,444	2,498	2,504	2,505	3,093	3,094	3,115	3,131	3,148	3,149	3,876	3,876	
1,397	1,545	1,577	1,660	1,760	2,232	2,025	2,104	1,814	2,054	2,119	2,106	
7,932	7,932	8,171	9,121	9,329	10,034	10,034	9,700	9,618	9,619	9,619	9,615	
4,619	4,949	5,222	5,277	5,120	5,120	5,158	5,159	5,546	5,176	5,260	5,245	
155	155	155	155	155	155	222	222	224	224	-	-	
2,457	2,451	2,451	2,451	2,467	2,544	2,497	2,572	2,673	2,860	2,966	2,996	
2,155	2,257	2,259	2,254	2,258	2,300	2,303	2,304	2,304	-	-	2,518	
43,300	43,400	43,400	44,000	44,000	44,100	43,900	43,700	44,100	43,900	-	44,828	
-	-	-	-	-	-	-	-	-	-	-	-	
1,562	2,564	2,576	3,648	4,183	4,288	4,288	4,288	4,288	4,422	4,422	4,511	
2,455	2,459	2,470	2,565	2,738	2,909	2,922	2,923	2,923	2,936	2,936	2,936	
93,618	96,038	98,629	99,695	100,028	97,548	98,725	98,669	98,958	98,881	98,901	-	
1,674	1,671	2,397	2,717	2,866	2,866	2,866	2,866	2,862	3,292	4,128	-	

## Power Generation Capacity - Nuclear Power (Continued)

											MW	
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
13,052	13,987	15,437	15,857	16,393	13,195	13,195	13,195	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	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
33,404	34,584	37,361	40,531	41,356	42,712	45,248	45,248	45,248	45,248	45,907	45,907	
7,616	7,616	7,616	7,616	8,616	9,616	10,316	12,016	13,716	13,716	13,716	15,716	
-	-	-	-	-	-	-	-	-	-	-	-	
675	675	675	675	1,309	1,309	1,309	1,309	1,368	1,365	1,365	1,365	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
20,200	21,200	21,200	21,200	21,300	21,300	21,300	21,300	21,300	21,200	-	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	
-	-	-	-	-	-	-	-	-	-	-	-	
99,609	99,006	99,061	99,168	99,148	100,784	99,716	97,070	97,411	97,860	98,142	-	
-	-	-	-	-	-	-	-	-	-	-	-	

**Power Generation Capacity - Others**

	1980	1983	1984	1985	1986	1987	1988	1989	1990
Australia	-	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	20
Chile	-	-	-	-	-	-	-	-	-
People's Republic of China	-	-	-	-	-	-	-	-	-
Hong Kong, China	-	-	-	-	-	-	-	-	-
Indonesia	-	30	30	30	30	140	140	140	140
Japan	162	-	-	214	-	-	-	-	270
Republic of Korea	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	150	205	205	425	535	650	700	700	700
New Zealand	238	212	218	271	269	273	359	388	387
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Philippines	446	784	894	894	1,085	1,078	1,061	1,055	1,055
Russia	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-
Chinese Taipei	-	-	-	1,000	1,000	1,000	1,000	1,000	1,000
Thailand	-	-	-	-	-	-	-	-	-
United States of America	909	1,207	1,231	1,580	1,558	1,549	1,667	1,606	1,617
Viet Nam	45	45	45	50	50	50	50	50	-

## Power Generation Capacity - Others (Continued)

										MW		
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
-	-	-	-	2	2	2	3	3	1,006	919	963	
-	-	-	-	-	-	-	-	-	-	-	-	
20	20	26	992	1,035	23	23	23	34	34	34	34	
-	-	-	-	-	-	-	-	-	-	-	289	
-	-	-	-	-	-	-	241	263	329	400	550	
-	-	-	-	-	-	-	-	-	-	-	-	
140	140	195	305	308	308	363	363	360	360	527	790	
281	281	307	386	519	544	533	606	567	617	707	788	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
720	730	740	755	755	745	750	750	750	857	840	845	
393	396	396	396	394	396	509	522	401	513	510	468	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	0	0	0	1	1	1	1	
888	888	1,018	1,073	1,163	1,446	1,886	1,856	1,914	-	-	1,931	
-	-	-	-	-	-	-	11	11	11	-	77	
-	-	-	-	-	-	-	-	-	-	-	135	
1,000	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	1	1	1	1	1	
2,974	3,352	5,243	5,147	5,131	15,859	16,126	16,254	16,965	16,103	17,886	-	
-	-	-	-	-	-	-	-	-	-	-	-	





## 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
<b>PRIMARY ENERGY SUPPLY</b>						
<b>INDIGENOUS PRODUCTION</b>						
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						
<b>OPENING STOCKS</b>						
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						
<b>CLOSING STOCKS</b>						
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						
<b>STOCK CHANGE</b>						
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						
<b>IMPORTS</b>						
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						
<b>EXPORTS</b>						
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						
<b>INTERNATIONAL MARINE BUNKERS</b>						
<b>TOTAL PRIMARY ENERGY SUPPLY</b>						
<b>TRANSFORMATION SECTOR (INPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COAL						
HARD COAL						
STEAM COAL						
COKING COAL						
SUBBITUMINOUS COAL						
ANTHRACITE						
LIGNITE						
FUEL OIL						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
<b>REFINING</b>						
CRUDE OIL AND NGL/CONDENSATE						
CRUDE OIL						
NGL/CONDENSATE						
NAPHTHA						
NATURAL GAS AND LNG						
NATURAL GAS						
LNG						
ELECTRICITY						
OTHERS						
<b>GAS PROCESSING</b>						
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						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
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
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
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						
<b>TRANSFORMATION SECTOR (OUTPUT)</b>						
<b>COAL TRANSFORMATION</b>						
COKE						
COKE OVEN GAS						
BRIQUETTES						
OTHER COAL PRODUCTS						
<b>GAS RECOVERING</b>						
BLAST FURNACE GAS						
<b>REFINING</b>						
REFINERY GAS						
LPG						
NAPHTHA						
MOGAS						
JET FUEL						
AVGAS						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
<b>GAS PROCESSING</b>						
COKE						
LNG						
TOWN GAS						
<b>POWER GENERATION (PUBLIC UTILITIES)</b>						
THERMAL						
COAL						
OIL						
GAS						
HYDRO POWER						
NUCLEAR POWER						
GEOHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
HEAT						
<b>POWER GENERATION (AUTO PRODUCERS)</b>						
THERMAL						
COAL						
OIL						
GAS						
HYDRO POWER						
GEOHERMAL POWER						
WIND						
TIDE						
PHOTOVOLTAIC POWER						
OTHER POWER						
HEAT						
<b>TRANSFORMATION SECTOR (LOSSES AND OWN USE)</b>						

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						
GEOTHERMAL HEAT						
SOLAR HEAT						
ELECTRICITY						
HEAT						
OTHERS						
TOTAL LOSSES AND OWN USE						
<b>FINAL ENERGY CONSUMPTION TOTAL</b>						
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						
<b>AGRICULTURE</b>						
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
<b>BLAST FURNACE GAS</b> 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						
<b>RESIDENTIAL COMMERCIAL</b> 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						
<b>OTHERS</b> 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						
<b>INDUSTRY</b>						
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						
<b>TRANSPORT</b>						
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						
<b>NON-ENERGY</b>						
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		
GEOHERMAL 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
<b>I INDUSTRIAL SECTOR</b>						
<b>1.1 IRON AND STEEL (*1)</b>						
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						
<b>1.2 CHEMICAL AND PETROCHEMICAL (*2)</b>						
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						
<b>1.3 NON-FERROUS METALS (*3)</b>						
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						
<b>1.4 NON-METALLIC MINERAL PRODUCTS (*4)</b>						
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						
<b>1.5 PAPER, PULP AND PRINTING (*5)</b>						
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						
<b>1.6 OTHER INDUSTRIES (*6)</b>						
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						
<b>2 TRANSPORTATION SECTOR</b>						
<b>2.1 AIR (*7)</b>						
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
<b>2.2 ROAD</b>						
COAL						
LPG						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
<b>ELECTRICITY</b>						
OTHER PETROLEUM PRODUCTS						
TOTAL						
<b>2.3 RAIL</b>						
COAL						
LPG						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
ELECTRICITY						
OTHER PETROLEUM PRODUCTS						
TOTAL						
<b>2.4 INTERNAL NAVIGATION</b>						
COAL						
LPG						
MOGAS						
JET FUEL						
KEROSENE						
DIESEL OIL						
FUEL OIL						
NATURAL GAS						
ELECTRICITY						
OTHER PETROLEUM PRODUCTS						
TOTAL						
<b>3 RESIDENTIAL AND COMMERCIAL SECTOR</b>						
<b>3.1 COMMERCE AND PUBLIC SERVICE</b>						
COAL						
COKE						
BRIQUETTES						
LPG						
KEROSENE						
DIESEL OIL						
FUEL OIL						
OTHER PETROLEUM PRODUCTS						
NATURAL GAS						
TOWN GAS						
GEOHERMAL						
SOLAR						
OTHER COMMERCIAL						
ELECTRICITY						
HEAT						
TOTAL						
<b>3.2 RESIDENTIAL</b>						
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:

<b>MEMBER NAME</b>	<b>Unit</b>	<b>Price</b>	<b>Note</b>
<b>IMPORT CIF PRICES</b>			
COAL			
STEAM COAL			
COKING COAL			
CRUDE OIL			
PETROLEUM PRODUCTS			
LPG			
NAPHTHA			
MOGAS			
JET FUEL			
KEROSENE			
DIESEL OIL			
FUEL OIL			
NATURAL GAS (LNG)			
<b>WHOLESALE PRICES</b>			
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)			
<b>CONSUMER PRICES</b>			
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 (C<sub>3</sub>H<sub>8</sub>) and butane (C<sub>4</sub>H<sub>10</sub>) 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 ( $\geq 80$  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 (C<sub>3</sub>H<sub>8</sub>) and butane (C<sub>4</sub>H<sub>10</sub>) 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.

